



MILLENNIUM ENGINEERING, INC.

Land Surveyors and Civil Engineers

STORMWATER MANAGEMENT REPORT

FOR THE

ROCKY HILL MBTA COMMUNITY

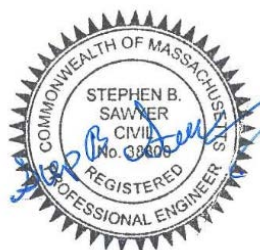
AT

**ELM STREET
AMESBURY, MA**

PREPARED FOR:

DALE DEVELOPMENT, LLC.

**360 WASHINGTON STREET
RYE, NH**



DATE: AUGUST 11, 2025

REVISED: JULY 7, 2026

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Rocky Hill MBTA Community Amesbury, MA

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I. Introduction

Introduction

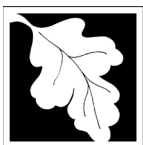
The approximately 85-acre Site is located within the City of Amesbury and comprises six parcels (collectively referred to as the “Site” herein):

- Lot 13, owned by True Homestead Limited Partnership I (10.5 acres);
- Lot 20, owned by True Homestead Limited Partnership III (25.52 acres);
- Lot 12, owned by True Homestead Limited Partnership IV (12.79 acres);
- Lot 3, owned by True Homestead Limited Partnership IV (0.32 acres);
- Lot 15, owned by Stanley O. Bean and Alice Bean, 287 Elm Street Realty Trust (15 acres); and
- Lot 4, owned by Stanley O. Bean Revocable Trust (0.11 acres).

The Property includes approximately 40.8 acres of upland area. Bordering Vegetated Wetlands (BVW) are in the southeast, southwest and north-central portions of the Site. There is also an Isolated Vegetated Wetland (IVW) in the central portion of the Site. A perennial stream runs near the southern property line and through a portion of the southern part of the Site. A second perennial stream is located along the southwestern border but does not enter the Site. Portions of both streams have been confirmed as intermittent. Riverfront area (RFA) associated with these perennial streams is located on the Site. Elevations on the site range from 68’ to the north end down to 42’ along the back of the perennial stream along the southern parcel boundary.

The project will consist of the construction of a new residential site road with associated parking and pedestrian walkways. The project will include the construction of 375 residential units with a mix of building types from single-family dwellings to 29-unit multi-unit dwelling. The proposed stormwater management system that includes catch basins, water quality units, infiltration basins, constructed stormwater wetlands and stormwater detention basins. The catch basins and water quality units will remove suspended solids prior to discharging to the infiltration areas. The infiltration areas will provide stormwater recharge to the groundwater, water quality treatment and mitigate peak runoff rates so the post-development runoff rates will be less than or equal to the pre-development rates. Constructed stormwater wetlands will provide water quality treatment and peak runoff rate attenuation. Some of the treatment trains will require a stormwater detention basin to control the peak runoff rate.

II. Stormwater Management Checklist



Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

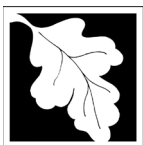
As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

B. Stormwater Checklist and Certification



Checklist for Stormwater Report

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

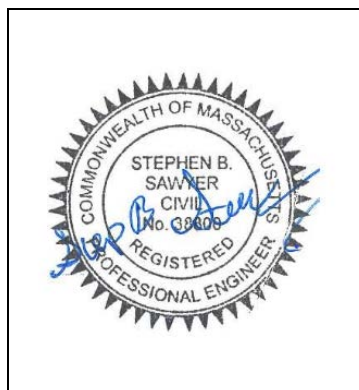
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Stephen Sawyer July 7, 2026
Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- ☒ New development
- ☐ Redevelopment
- ☐ Mix of New Development and Redevelopment

Checklist (continued)



Checklist for Stormwater Report

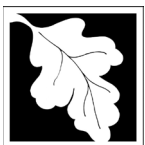
LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☐ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
 - ☐ Credit 1
 - ☐ Credit 2
 - ☐ Credit 3
- ☐ Use of “country drainage” versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☒ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☒ Other (describe): Contech CDS

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☒ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☒ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist (continued)



Checklist for Stormwater Report

Standard 2: Peak Rate Attenuation

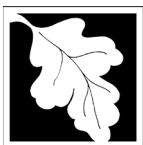
- ☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- ☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- ☒ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- ☒ Soil Analysis provided.
- ☒ Required Recharge Volume calculation provided.
- ☐ Required Recharge volume reduced through use of the LID site Design Credits.
- ☒ Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - ☒ Static
 - ☐ Simple Dynamic
 - ☐ Dynamic Field¹
- ☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.
- ☒ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- ☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - ☒ Site is comprised solely of C and D soils and/or bedrock at the land surface
 - ☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - ☐ Solid Waste Landfill pursuant to 310 CMR 19.000
 - ☐ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- ☒ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- ☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist (continued)



Checklist for Stormwater Report

Standard 3: Recharge (continued)

- ☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- ☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- ☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - ☒ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - ☐ is within the Zone II or Interim Wellhead Protection Area
 - ☐ is near or to other critical areas
 - ☒ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - ☐ involves runoff from land uses with higher potential pollutant loads.
 - ☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - ☒ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist (continued)



Checklist for Stormwater Report

Standard 4: Water Quality (continued)

- ☒ The BMP is sized (and calculations provided) based on:
 - ☒ The ½" or 1" Water Quality Volume or
 - ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- ☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- ☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

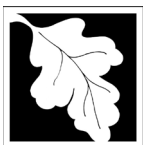
Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- ☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- ☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- ☒ The NPDES Multi-Sector General Permit does **not** cover the land use.
- ☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- ☐ All exposure has been eliminated.
- ☐ All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- ☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- ☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- ☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist (continued)



Checklist for Stormwater Report

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- ☐ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - ☐ Limited Project
 - ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - ☐ Bike Path and/or Foot Path
 - ☐ Redevelopment Project
 - ☐ Redevelopment portion of mix of new and redevelopment.
- ☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- ☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- ☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist (continued)



Checklist for Stormwater Report

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- ☐ The project is **not** covered by a NPDES Construction General Permit.
- ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- ☒ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- ☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - ☒ Name of the stormwater management system owners;
 - ☒ Party responsible for operation and maintenance;
 - ☒ Schedule for implementation of routine and non-routine maintenance tasks;
 - ☒ Plan showing the location of all stormwater BMPs maintenance access areas;
 - ☐ Description and delineation of public safety features;
 - ☐ Estimated operation and maintenance budget; and
 - ☒ Operation and Maintenance Log Form.
- ☐ The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- ☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- ☒ An Illicit Discharge Compliance Statement is attached;
- ☐ NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

III. Hydrologic Analysis

Existing Site Characteristics

In general, the property is irregular in shape and fronts Elm Street and bounded by Route 495 to the north and Route 95 to the east. We have limited our drainage analysis area to the upland area where the site will be disturbed and developed. Most of the development area is currently undeveloped with a mix of woodlands and mowed hay fields. See the accompanying plan for a more detailed description of the existing site conditions and topography.

The lot consists of eight soil groups: Woodbridge fine sandy loam, 300B (Hydrologic soil group C/D); Scantic silt loam, 16A (Hydrologic soil group C/D); Ridgebury and Leicester fine sandy loams, 7i5B (Hydrologic soil group D); Charton-Roack outcrop-Hollis, 711B (Hydrologic Soil Group A); Windsor loamy-sand (Hydrologic soil group A); Deerfield loamy fine sand, 256A (Hydrologic soil group A);

Numerous test pits and soil probes were performed onsite throughout 2024. The probes indicated C/D soils being present on the north side of the site and A soils on the south side of the development area confirming the NRCS soil map. See Appendix E for the NRCS soil map. The probes were performed to a depth of 36 inches with the intent of confirming the hydrologic drainage class with full depth test pits to be performed for the detailed drainage design.

Additionally, double ring infiltration tests were completed in the south neighborhood confirming infiltration rates to be used in the calculations with results of the testing is provided in appendix E.

Proposed Site Features

The Applicant proposes to construct 375 residential units with the associated roadways, parking and walks for access. The project additionally provides recreational amenities including pool and pickleball courts. Access to the property will be from Elm Street. The development area will impact about 33 acres of land.

In order to address stormwater management regulations, catch basins, water quality units, and infiltration areas are proposed to treat, store, and infiltrate runoff.

WATERSHED ANALYSIS AND METHODOLOGY

The stormwater runoff management system was analyzed using the storm events of the 2-year, 10-year, 25-year, and 100-year frequency. The analysis was performed using HydroCAD, version 10.00. Using USDA NRCS TR-20 and TR-55 methods of estimating runoff, the program uses the

measured characteristics of the site and computes runoff produced by simulated rainfall events. The results are then used to design runoff control structures.

Existing drainage area boundaries were developed using an onsite topographic survey performed by GM2 associates used for the Order of Resource Delineation and updated by this firm for the development area. Proposed site development drainage area boundaries were developed from proposed grades and ground cover designed to minimize site storm water management structure requirements.

Hydrologic soil groups and curve numbers were estimated for existing and proposed developed conditions using available NRCS Soil Maps, current vegetation, and terrain.

DRAINAGE ANALYSIS

The purpose of the drainage analysis is two-fold. The first is to analyze and quantify the pre-development runoff flows through the site. The second purpose is to evaluate the impact of the proposed development on drainage patterns and flows, both within and outside the site, and to design a stormwater management system to adequately convey post-development runoff.

The design of the stormwater management system has the following goals:

- 1.) Minimize or eliminate erosion and sedimentation during construction as well as after development.
- 2.) To ensure that post-development flows do not have an adverse effect on downstream drainage structures and landowners.
- 3.) To design a stormwater and treatment system which will carry the surface runoff and satisfy goals one and two.

To determine the hydrological effect of the proposed development on the watershed, the existing conditions must first be analyzed.

WATERSHED DESCRIPTION: EXISTING CONDITIONS

Depending on the soil classification, type of ground cover present and the direction of the flow of runoff, the existing site is divided into three major watershed areas. One watershed "DP1" includes a 12.048-acre area on the northwest side of the property that is directed to the adjacent wetlands that flow to the perennial stream northwest of the development. The second watershed area "DP3A" with 11.227 acres flows south to adjacent wetlands and perennial

stream. The third watershed area "DP3B" includes 11.000 acres of land directed to the wetlands open bog area to the east. This area flows through a culvert to the DP3A so these areas were divided onto sperate design points. There is a fourth watershed area "E2" with 4.774 acres of land that flows into an isolated wetland. Note that there is no depression within this isolated wetlands with this drainage area eventually flowing to design point E3B. See the attached watershed plans for the watershed area boundaries and the pre-development time of concentration flow paths.

WATERSHED ANALYSIS: EXISTING CONDITIONS

The existing conditions were modeled using the tabular hydrograph method with a Type III synthetic storm distribution for the 2, 10, 25 and 100-year storm recurrence intervals. Runoff hydrographs were produced to estimate existing peak discharge. The rainfall rates are based upon the NOAA ATLAS 14 precipitation frequency Estimates as published in the HydoCAD software. The re

Flows for the four storm simulations are as follows:

Existing (Pre-development) Peak Runoff Rates (c.f.s.)

Subcatchment	Size	2 Yr (3.15")	10 Yr (4.83")	25 Yr (6.16")	100 Yr (8.94")
	(Acres)	Storm	Storm	Storm	Storm
DP 1	12.048	0.13	3.11	9.32	28.17
DP 3A	11.227	0.00	0.06	0.39	5.49
*DP2/DP 3B	15.774	4.77	17.48	30.77	62.52
Total Area	39.049				

*As confirmed during the May OCED/Peer review coordination meeting and June 1ts Compensation Combustion meeting Standard 2 does not need to me met for DP2 as that isolated wetland area is internal to the project area and flows directly to DP3B. All other water quality and groundwater recharge standards shall apply to DP2.

The pre-development drainage calculations can be found in Appendix A.

WATERSHED DESCRIPTION: POST-DEVELOPMENT CONDITIONS

To determine the post development runoff, new watersheds, runoff curve numbers and times of concentration were generated reflecting the changes in the topography and surface cover. The post-development watersheds are shown on the attached plans (Watersheds and HydroCad Data, sheet 2 of 2).

The proposed watershed areas are broken into multiple sub-catchment areas and directed to stormwater mitigation areas to provide recharge to groundwater, water quality treatment and peak rate mitigation. Sub-catchment areas P1A – P1AA are directed to various stormwater management areas and ultimately drain to design point 1. Two infiltration basins and one subsurface infiltration area are proposed to provide stormwater mitigation for this design point. Sub-catchment areas P2A - P2AA are directed to design point 2. Three subsurface infiltration areas are proposed to provide stormwater mitigation for this design point. Sub-catchment areas P3A – P3WWW and P2E- P2I and P2X are directed to design point 3. Four constructed stormwater wetlands, three infiltration basins, three subsurface infiltration areas, and two subsurface detention areas are proposed to provide stormwater mitigation for this design point.

WATERSHED ANALYSIS: POST-DEVELOPMENT CONDITIONS

The proposed developed conditions were modeled using the tabular hydrograph method with a Type III synthetic storm distribution for the 2, 10, and 100-year storm recurrence intervals. Runoff hydrographs were produced to estimate the post-development peak discharge rates. The model uses the Northeast Regional Climate Center Precipitation Data for the 2-year, 10-year and 100-year 24-hour storm events. This correlates to 3.15" for the 2-year, 4.83" for the 10-year and 8.94" for the 100-year storm event. As the design is refined the pond sizes will most likely be reduced in size with the current design taking the most conservative approach. The provided mitigation reduces the runoff rates for Design Points 1, 2, and 3 for the 2-, 10-, and 100-year storm events.

Flows for the three storm simulations are as follows:

Post-Developed Peak Runoff Rates (c.f.s.)

Size	2 Yr (3.15")	10 Yr (4.83")	25 Yr (6.16")	100 Yr (8.94")
(Acres)	Storm	Storm	Storm	Storm
8.749	0.12	2.79	7.18	26.07
15.797	0.00	0.03	0.24	5.48
14.503	2.18	11.09	20.55	47.05
39.049				

*As confirmed during the May OCED/Peer review coordination meeting and June 1st design coordination meeting, Standard 2 does not need to be met for DP2 as that isolated wetland area is internal to the project area and flows directly to DP3B. All other requirements including water quality and groundwater recharge standards shall apply to DP2.

Given the reduction of runoff intensities for all storm events, the proposed project complies with standard 2.

The post-development drainage calculations can be found in Appendix B.

IV. Stormwater Recharge Calculations

Stormwater Recharge Calculations

Calculations were performed to ensure that the proposed project will comply with the groundwater recharge requirements of the Mass DEP Stormwater Management Standards. The required recharge volume was calculated as follows:

The Required Recharge Volume equals a depth of runoff corresponding to the soil type times the impervious areas located on site.

$R_v = F \times \text{Impervious area}$ Where:

R_v = Required Recharge Volume, expressed in cubic feet

F = Target Depth Factor associated with each Hydrologic Soil

Group Impervious Area = pavement and rooftop area on site

For the proposed project:

Where the project is required to retain, hold and infiltrate a majority of the 2 and 10 year storm events. Given this requirement this project far exceeds the DEP Standard 3 groundwater recharge requirements.

Required Recharge volume, R_v (C soil) = $F \times \text{impervious area}$
= 0.25 in * 346,302 s.f.
= 7,215 c.f.
 R_v (A soil) = $F \times \text{impervious area}$
= 0.60 in * 381,585
= 19,079 c.f.

Total Required Recharge Volume = 26,294 c.f.

The following table summarized each drainage area along with the total project area. We have broken out the south and north neighborships as each drainage area has different recharge requirements.

NORTH NEIGHBORHOOD DRAINAGE AREA

Sub-Catchment Area	Total Impervious Area (SF)	Recharge Req. inch/sf imp.area	Recharge Volume Required (CF)	Recharge Volume Provided (CF)	Inches Recharge Provided
Inf. Chamber 4	38,296	0.25	798	5,007	1.57
Inf. Chamber 4A	19,777	0.25	412	4,731	2.87
Inf. Chamber 4B	56,302	0.25	1,173	3,470	0.74
Inf. Chamber 5	60,926	0.25	1,269	12,330	2.43
Inf. Chamber 5	18,213	0.25	379	1,688	1.11
Inf. Chamber 6	14,766	0.25	308	1,333	1.08
Inf. Chamber 7	43,437	0.25	905	3,623	1.00
Inf. Chamber 8	23,886	0.25	498	2,027	1.02
Inf. Chamber 9	38,106	0.25	794	3,948	1.24
Inf. Chamber 10	31,426	0.25	655	2,619	1.00
inf. Chamber 11	30,726	0.25	640	1,841	0.72
Inf. Chamber 12	26,136	0.25	545	2,187	1.00
*uncontrolled roof	18,794	0.25	392	0	0.00
North Total	420,791	0.6	21,040	44,804	1.28

SOUTH NEIGHBORHOOD DRAINAGE AREA

Sub-Catchment Area	Total Impervious Area (SF)	**Amebeury WQV Storage Req. inch/sf imp.area	WQV Volume Required (CF)	WQV Volume Provided (CF)	Inches WQV Provided
Inf. Basin 1	17,647	0.6	882	2,421	1.65
Inf. Chamber 1 A	8,396	0.6	420	6,261	8.95
Inf. Chamber 1 B	40,474	0.6	2,024	6,366	1.89
Inf. Chamber 1 C	60,926	0.6	3,046	12,330	2.43
Inf. Chamber 2	53,738	0.6	2,687	5,429	1.21
Inf. Chamber 3	36,066	0.6	1,803	3,089	1.03
Inf. Chamber 3A	10,387	0.6	519	2,622	3.03
Inf. Chamber 3B	36,050	0.6	1,803	4,275	1.42
Inf. Chamber 3C	8,744	0.6	437	1,967	2.70
Inf. Chamber 3D	20,387	0.6	1,019	4,582	2.70
Inf. Chamber 3E	6,055	0.6	303	1,487	2.95
Inf. Chamber 3F	12,978	0.6	649	3,518	3.25
Inf. Basin 3G	26,391	0.6	1,320	7,622	3.47
*uncontrolled roof	3,549	0.6	177	0	0.00
South Total	341,788	0.6	17,089	61,969	2.18

Total Project Aera Recharge provided = 106,793c.f.

The project provides 4.6X the required recharge volume exceeding the requirements and will fully comply with Standard 3.

The infiltration BMP's are required to drain within 72 hours after the end of each storm. The table below provides time for draining of each chamber or pond.

NORTH NEIGHBORHOOD DRAINAGE AREA

Basin Number	Lowest Outlet Elevation	Bottom Stone Elevation	Infiltration Chamber Depth	infiltration Rate Inches/Hr.	Basin Drain Time in hours
Inf. Chamber 4	57.15	54.5	2.65	1.02	31.18
Inf. Chamber 4A	59.00	55.00	4.00	1.02	47.06
Inf. Chamber 4B	62.00	58.50	3.50	1.02	41.18
Inf. Chamber 5	61.20	59.00	2.20	1.02	25.88
Inf. Chamber 6	63.50	61.00	2.50	1.02	29.41
Inf. Chamber 7	63.10	60.30	2.80	1.02	32.94
Inf. Chamber 8	62.60	60.00	2.60	1.02	30.59
Inf. Chamber 9	63.00	59.00	4.00	1.02	47.06
Inf. Chamber 10	60.90	58.50	2.40	1.02	28.24
inf. Chamber 11	60.90	58.50	2.40	1.02	28.24
Inf. Chamber 12	58.70	55.50	3.20	1.02	37.65

SOUTH NEIGHBORHOOD DRAINAGE AREA

Basin Number	Lowest Outlet Elevation	Bottom Stone Elevation	Infiltration Chamber Depth	infiltration Rate Inches/Hr.	Basin Drain Time in hours
Inf. Basin 1	46.60	45.5	1.10	8.27	1.60
Inf. Chamber 1A	52.00	47.70	4.30	10.00	5.16
Inf. Chamber 1B	52.00	47.70	4.30	30.00	1.72
Inf. Chamber 1C	51.70	47.50	4.20	15.00	3.36
Inf. Chamber 2	54.00	51.00	3.00	20.00	1.80
Inf. Chamber 3	55.50	52.50	3.00	20.00	1.80
Inf. Chamber 3A	53.00	49.00	4.00	20.00	2.40
Inf. Chamber 3B	51.90	49.00	2.90	30.00	1.16
Inf. Chamber 3C	58.00	54.50	3.50	15.00	2.80
inf. Chamber 3D	57.00	54.00	3.00	15.00	2.40
inf. Chamber 3E	59.00	55.00	4.00	15.00	3.20
inf. Chamber 3F	58.00	54.00	4.00	15.00	3.20
Inf. BASIN 3G	54.00	50.00	4.00	7.00	6.86

V. TSS Removal Calculations

VI. Water Quality Calculations

Water Quality Calculations

The Massachusetts DEP requires water quality calculations based on 1/2 inch of runoff for the total impervious area associated with the proposed development. The following calculation identifies the water quality volume required.

The Amesbury local regulations as dictated in the Definitive Subdivision of Land regulations required a 1-inch water quality volume. As required by Section 7.10.B.3.a.ii – “Retaining the volume of runoff equivalent to, or greater than, one inch multiplied by the total post-construction impervious surface area on the new development site.” The proposed drainage system is designed to meet the more stringent requirements. The Stormwater treatment proposes two surface infiltration basins and 11 subsurface chamber system in the South Neighborhood. Given the rapid infiltration rates 44% pretreatment of stormwater runoff is required prior to entering the infiltration basins or chamber system. This is provided with a deep sump catch basin and water quality units. Note that some small systems that include just a single catch basin, a single WQU basin with grate is utilized to provide the required pretreatment. The water quality units have all been sized providing 90% TSS removal far exceeding the 44% pretreatment requirement. The treatment volume analyses for the water quality units are provided in Appendix B of this report. For Inflation Basin #1, a treatment train including deep sump catch basins routed to a water quality swale provides the 44% pretreatment threshold.

There are 16 subsurface infiltration chamber systems providing the required water quality treatment in the North Neighborhood. With the 1.02 inch per hour infiltration rate, deep sump catch basins provide the required pretreatment for these infiltration chamber systems.

A detailed breakdown for the North and South Neighborhood is provided below for each drainage area water quality volume required versus provided. This is followed by the breakdown for the TSS remove for each treatment train.

NORTH NEIGHBORHOOD

Sub-Catchment Area	Total Impervious Area (SF)	**Amesbury WQV Storage Req. inch/sf imp.area	Recharge Volume Required (CF)	Recharge Volume Provided (CF)	Inches Recharge Provided
Inf. Chamber 4	38,296	1	3,191	5,007	1.57
Inf. Chamber 4A	19,777	1	1,648	4,731	2.87
Inf. Chamber 4B	56,302	1	4,692	3,470	0.74
Inf. Chamber 5	18,213	1	1,518	1,688	1.11
Inf. Chamber 6	14,766	1	1,231	1,333	1.08
Inf. Chamber 7	43,437	1	3,620	3,623	1.00
Inf. Chamber 8	23,886	1	1,991	2,027	1.02
Inf. Chamber 9	38,106	1	3,176	3,948	1.24
Inf. Chamber 10	31,426	1	2,619	2,619	1.00
inf. Chamber 11	30,726	1	2,561	1,841	0.72
Inf. Chamber 12	26,136	1	2,178	2,187	1.00
*Uncontrolled roof /walks	18,794	1	1,566	0	0.00
North Total	359,865	0.6	17,993	32,474	1.08

* Note the uncontrolled runoff includes landscaped, roof and walk/patio areas and is considered clean runoff with no TSS removal requirements.

** Section 7.10.B.3.a.ii - Retaining the volume of runoff equivalent to, or greater than, one inch multiplied by the total post-construction impervious surface area on the new development site.

SOUTH NEIGHBORHOOD

Sub-Catchment Area	Total Impervious Area (SF)	**Amesbury WQV Storage Req. inch/sf imp.area	WQV Volume Required (CF)	WQV Volume Provided (CF)	Inches WQV Provided
Inf. Basin 1	17,647	1	1,471	2,421	1.65
Inf. Chamber 1 A	8,396	1	700	6,261	8.95
Inf. Chamber 1 B	40,474	1	3,373	6,366	1.89
Inf. Chamber 1 C	60,926	1	5,077	12,330	2.43
Inf. Chamber 2	53,738	1	4,478	5,429	1.21
Inf. Chamber 3	36,066	1	3,006	3,089	1.03
Inf, Chamber 3A	10,387	1	866	2,622	3.03
Inf. Chamber 3B	36,050	1	3,004	4,275	1.42
Inf. Chamber 3C	8,744	1	729	1,967	2.70
Inf. Chamber 3D	20,387	1	1,699	4,582	2.70
Inf. Chamber 3E	6,055	1	505	1,487	2.95
Inf. Chamber 3F	12,978	1	1,082	3,518	3.25
Inf. Basin 3G	26,391	1	2,199	7,622	3.47
*uncontrolled roof	3,549	1	296	0	0.00
South Total	341,788	1	28,482	61,969	2.18

* Note the uncontrolled runoff includes landscaped, roof and walk/patio areas and is considered clean runoff with no TSS removal requirements.

** Section 7.10.B.3.a.ii - Retaining the volume of runoff equivalent to, or greater than, one inch multiplied by the total post-construction impervious surface area on the new development site.

The total project area provides 94,443 cubic feet for 701,653 square feet of new impervious area providing 1.6 inches of water storage per square foot. This exceeds the 1-inch required for the City of Amesbury regulations.

The following provides a detailed breakdown for the TSS removal for each treatment train.

All of the BMP treatment trains in the North Neighborhood utilize the same treatment train for all stormwater treatment of a catch basin followed by a subsurface infiltration basin. This treatment train provides an 85% TSS removal rate.

	A	B	C	D	E	F
1	INSTRUCTIONS:					
2	1. In BMP Column, click on Blue Cell to Activate Drop Down Menu					
3	2. Select BMP from Drop Down Menu					
4	3. After BMP is selected, TSS Removal and other Columns are automatically completed.					
5						
6	Location: BMP Treatment Train 1					
7						
8		B	C	D	E	F
9			TSS Removal	Starting TSS	Amount	Remaining
10		BMP ¹	Rate ¹	Load*	Removed (C*D)	Load (D-E)
11	TSS Removal Calculation Worksheet	Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
12		Infiltration Basin	0.80	0.75	0.60	0.15
13			0.00	0.15	0.00	0.15
14			0.00	0.15	0.00	0.15
15			0.00	0.15	0.00	0.15
16	Total TSS Removal =				85%	Separate Form Needs to be Completed for Each Outlet or BMP Train
17						
18	Project:		M244407			
19	Prepared By:		SBS			
20	Date:		6/29/2026			
21	*Equals remaining load from previous BMP (E) which enters the BMP					

The South Neighborhood provided three different BMP treatment trains as follows.

Infiltration Chambers 1B, 1C, 2, 3, 3B, 3D, & Basin 3G

	A	B	C	D	E	F
4	3. To complete Chart Column D, multiple Column B value within Row x Column C value within Row					
5	4. To complete Chart Column E value, subtract Column D value within Row from Column C within Row					
6	5. Total TSS Removal = Sum All Values in Column D					
7						
8	Location:		BMP Treatment Train 2			
9						
10	A	B	C	D	E	
11	TSS Removal		Starting TSS	Amount	Remaining	
12	BMP ¹	Rate ¹	Load*	Removed (B*C)	Load (C-D)	
13	Deep Sump Catch Basin	0.25	1.00	0.25	0.75	
14	Contech CDS	0.90	0.75	0.68	0.07	
15	Inf. Basin	0.80	0.07	0.06	0.01	
16						
17						
18					99%	Separate Form Needs to be Completed for Each Outlet or BMP Train
19	Total TSS Removal =					
20	Project:		M244407			
21	Prepared By:		SBS			
22	Date:		6/29/2025			
					*Equals remaining load from previous BMP (E) which enters the BMP	

Infiltration Chambers 1A, 3A, 3C, & 3F

	A	B	C	D	E	F
4	3. To complete Chart Column D, multiple Column B value within Row x Column C value within Row					
5	4. To complete Chart Column E value, subtract Column D value within Row from Column C within Row					
6	5. Total TSS Removal = Sum All Values in Column D					
7						
8	Location:		Pretreatment Sub. Inf. Train 3			
9						
10	A	B	C	D	E	
11	TSS Removal		Starting TSS	Amount	Remaining	
12	BMP ¹	Rate ¹	Load*	Removed (B*C)	Load (C-D)	
13	Contech CDS	0.90	1.00	0.90	0.10	
14	Inf. Basin	0.80	0.10	0.08	0.02	
15						
16						
17						
18					98%	Separate Form Needs to be Completed for Each Outlet or BMP Train
19	Total TSS Removal =					
20	Project:		M244407			
21	Prepared By:		SBS			
22	Date:		6/29/2025			
					*Equals remaining load from previous BMP (E) which enters the BMP	

Infiltration Basin 1

	A	B	C	D	E	F
1	INSTRUCTIONS:					
2	1. In BMP Column, click on Blue Cell to Activate Drop Down Menu					
3	2. Select BMP from Drop Down Menu					
4	3. After BMP is selected, TSS Removal and other Columns are automatically completed.					
5	Version 1, Automated: Mar. 4, 2008					
6	Location: BMP Treatemnt Train 4					
7						
8		B	C	D	E	F
9		BMP ¹	TSS Removal Rate ¹	Starting TSS Load*	Amount Removed (C*D)	Remaining Load (D-E)
10	TSS Removal Calculation Worksheet	Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
11		Grass Channel	0.50	0.75	0.38	0.38
12		Infiltration Basin	0.80	0.38	0.30	0.08
13			0.00	0.08	0.00	0.08
14			0.00	0.08	0.00	0.08
15						
16	Total TSS Removal =				93%	Separate Form Needs to be Completed for Each Outlet or BMP Train
17	Project: M244407					
18	Prepared By: SBS					
19	Date: 6/29/2026					
20					*Equals remaining load from previous BMP (E) which enters the BMP	
21						

Chamber System 3E only handles runoff form roof area only consisting of clean runoff.

PHOSPHORUS REMOVAL CALCULATIONS

The Amesbury drainage regulations require removal of 60% of the average annual load of Total Phosphorus. The proposed design meets this requirement as it provides 1.6 inches of water quality volume exceeding the 1-inch requirement in Section 7.10.B.3.a.ii – “Retaining the volume of runoff equivalent to, or greater than, one inch multiplied by the total post-construction impervious surface area on the new development site.”

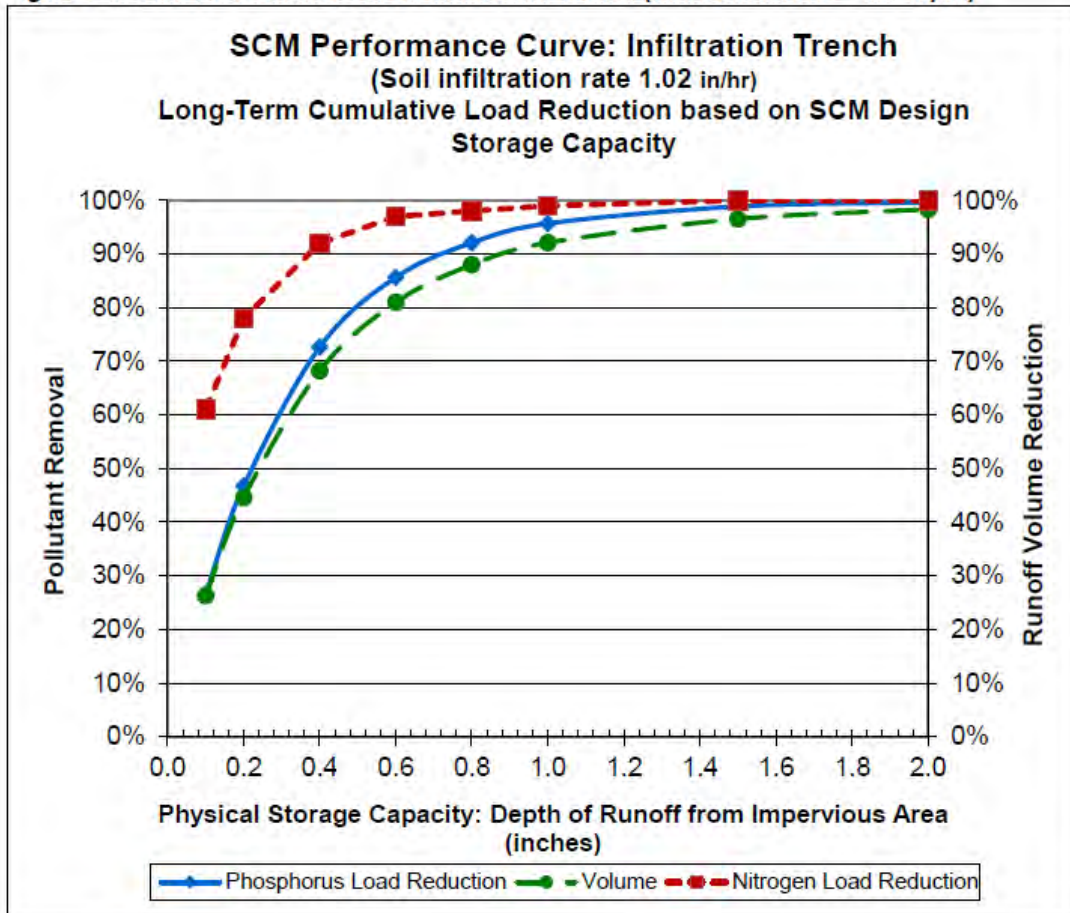
Based upon the Massachusetts Draft MS4 General Permit the Phosphorus removal for each neighborhood is as follows:

North Neighborhood.

With an average 1.3-inch water quality volume provided with a 1.02-inch infiltration rate and table 3-10 a 94% removal is provided with the proposed design

Table 3- 10: Infiltration Trench (IR = 1.02 in/hr) SCM Performance Table

Infiltration Trench (IR = 1.02 in/hr) SCM Performance Table: Long-Term Phosphorus & Nitrogen Load Reduction								
SCM Capacity: Depth of Runoff from Impervious Area (inches)	0.1	0.2	0.4	0.6	0.8	1.0	1.5	2.0
Runoff Volume Reduction	26.3%	44.6%	68.2%	81.0%	88.0%	92.1%	96.5%	98.3%
Cumulative Phosphorus Load Reduction	27%	47%	73%	86%	92%	96%	99%	100%
Cumulative Nitrogen Load Reduction	61%	78%	92%	97%	98%	99%	100%	100%

Figure 3-5: SCM Performance Curve: Infiltration Trench (infiltration rate = 1.02 in/hr)

South Neighborhood.

With an average 2.18-inch water quality volume provided with a 8.27-inch infiltration rate and table 3-12 and 3-19 a 100% removal is provided with the proposed design.

Table 3- 12: Infiltration Trench (8.27 in/hr) SCM Performance Table

Infiltration Trench (8.27 in/hr) SCM Performance Table: Long-Term Phosphorus & Nitrogen Load Reduction								
SCM Capacity: Depth of Runoff from Impervious Area (inches)	0.1	0.2	0.4	0.6	0.8	1.0	1.5	2.0
Runoff Volume Reduction	53.6%	76.1%	92.6%	97.2%	98.9%	99.5%	100.0%	100.0%
Cumulative Phosphorus Load Reduction	50%	75%	94%	98%	99%	100%	100%	100%
Cumulative Nitrogen Load Reduction	76%	92%	98%	100%	100%	100%	100%	100%

Figure 3-7: SCM Performance Curve: Infiltration Trench (infiltration rate = 8.27 in/hr)

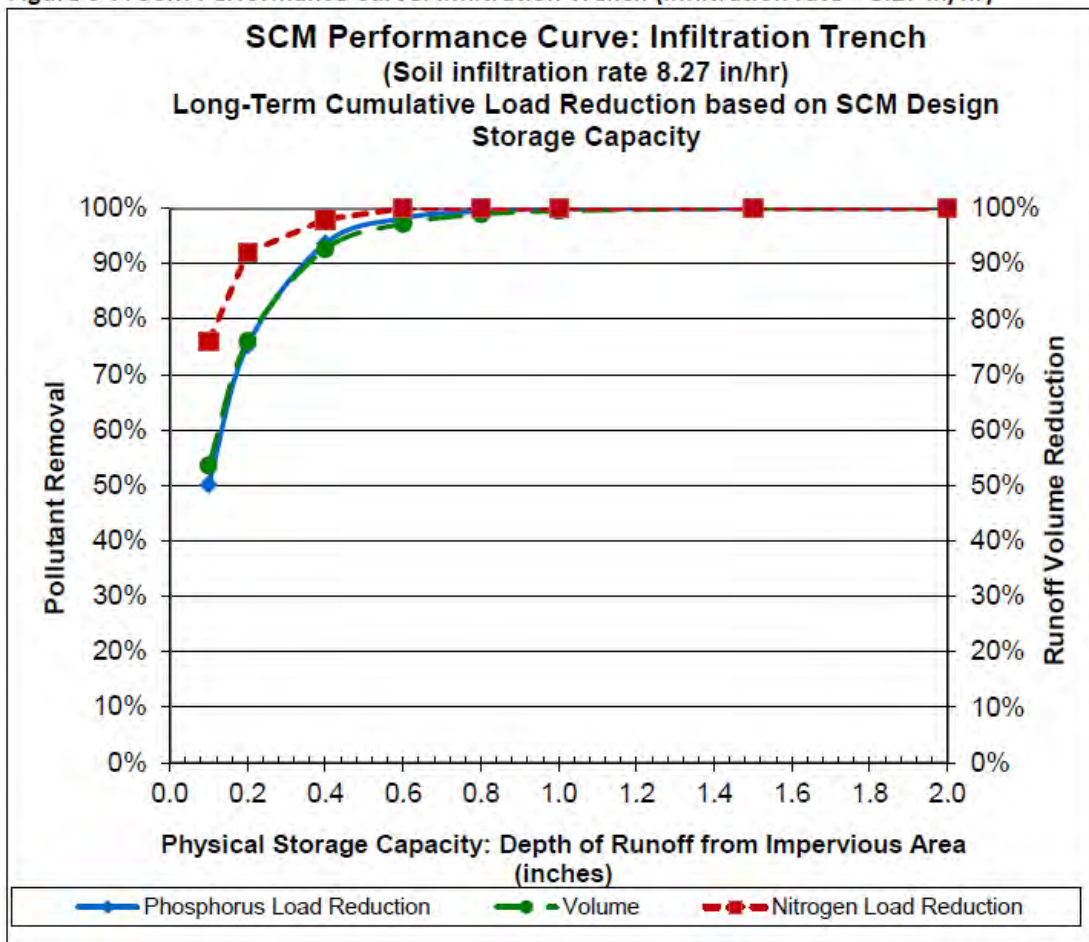
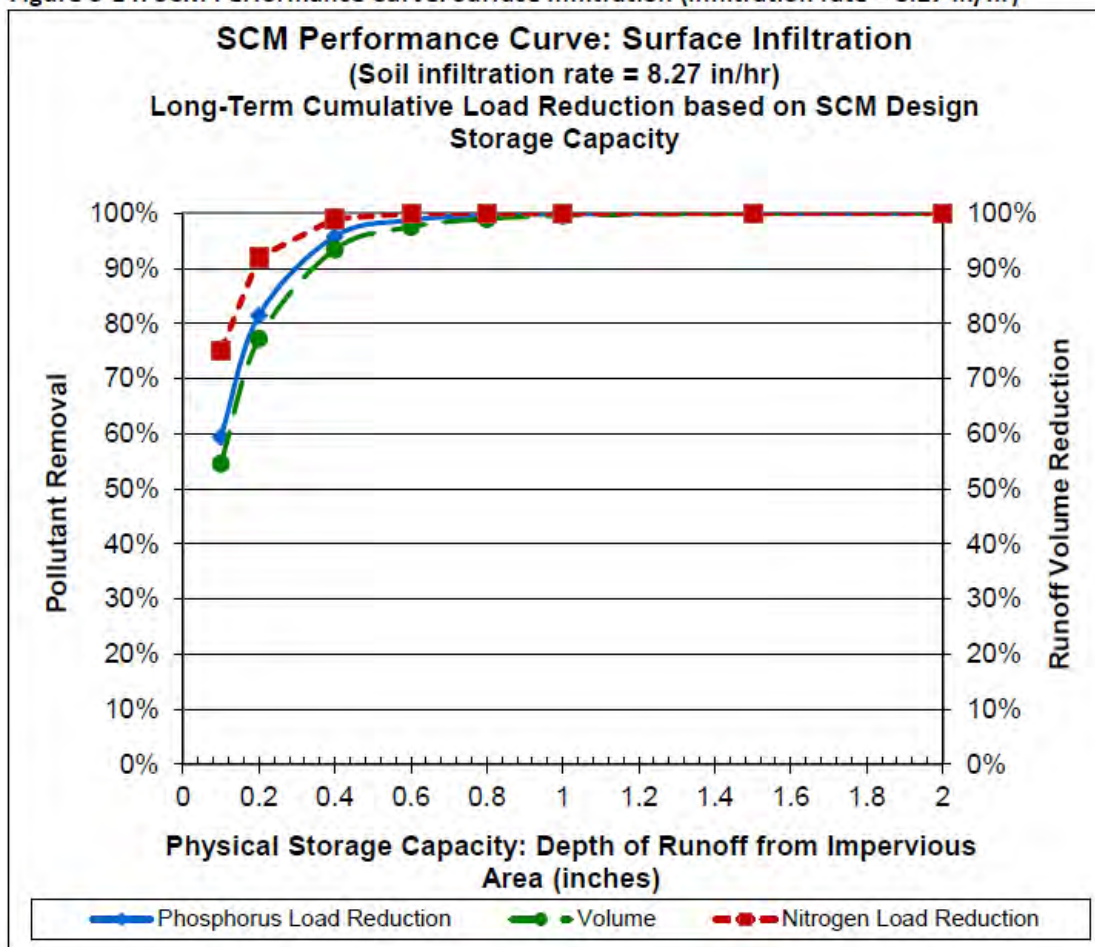


Table 3- 19: Surface Infiltration (8.27 in/hr) SCM Performance Table

Surface Infiltration (8.27 in/hr) SCM Performance Table: Long-Term Phosphorus & Nitrogen Load Reduction								
SCM Capacity: Depth of Runoff from Impervious Area (inches)	0.1	0.2	0.4	0.6	0.8	1.0	1.5	2.0
Runoff Volume Reduction	54.6%	77.2%	93.4%	97.5%	99.0%	99.6%	100.0%	100.0%
Cumulative Phosphorus Load Reduction	59%	81%	96%	99%	100%	100%	100%	100%
Cumulative Nitrogen Load Reduction	75%	92%	99%	100%	100%	100%	100%	100%

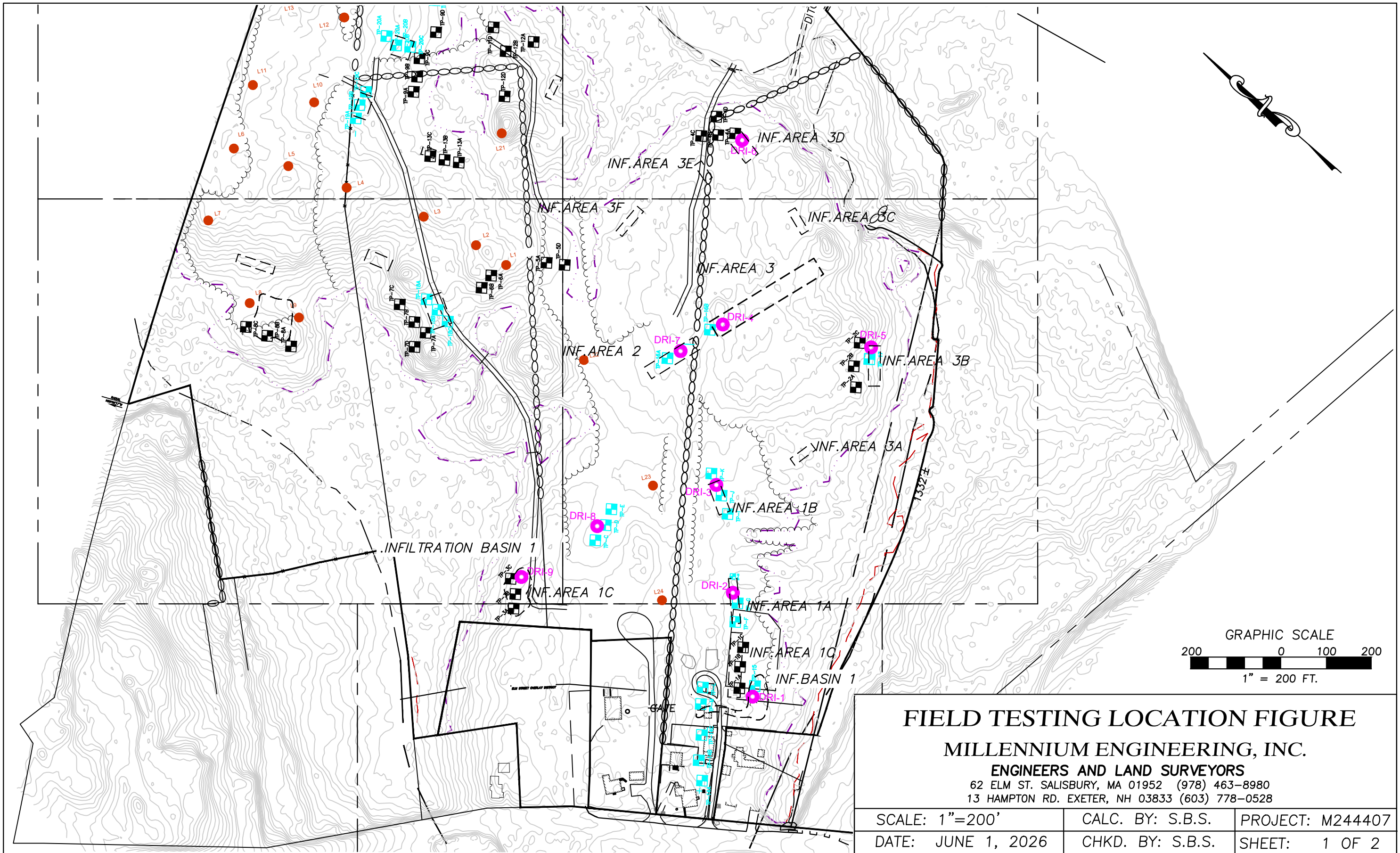
Figure 3-14: SCM Performance Curve: Surface Infiltration (infiltration rate = 8.27 in/hr)



Soils Analysis

The enclosed soil analysis provides the following items.

1. Soil testing location map
2. Double ring soil testing results
3. Test Pit Logs
4. NRCS Web Soil Survey



FIELD TESTING LOCATION FIGURE

MILLENNIUM ENGINEERING, INC.

ENGINEERS AND LAND SURVEYORS

62 ELM ST. SALISBURY, MA 01952 (978) 463-8980

13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=200'

CALC. BY: S.B.S.

PROJECT: M244407

DATE: JUNE 1, 2026

CHKD. BY: S.B.S.

SHEET: 1 OF 2

DOUBLE RING INFILTRMETER TESTING
ROCKY HILL MBTA COMMUNITY
ELM STREET - AMESBURY

STEPHEN SAWYER P.E.
MILLENIUM ENGINEERING
JUNE 1, 2028



The attached results are based on field double-ring infiltration testing completed on February 17, 2026. The testing was performed by Alexander Parker, Massachusetts Certified Soil Evaluator No. SE1848, and witnessed by Stephen Sawyer, Massachusetts Professional Engineer No. 38880.

The field testing was conducted to verify the infiltration rate used in the stormwater calculations. The original design utilized the Rawls Table infiltration rate of 8.27 inches per hour for soils classified as fine loamy sand.

Although the soil logs classified the "C" horizon as fine loamy sand to loamy sand, the detailed soil description stated:

"Loose; single-grained/structureless; non-cohesive; mixed medium- to predominantly fine-grained clean sand; dry matrix; non-sticky; non-plastic; free of clasts."

This description is indicative of a highly permeable soil due to its loose, single-grained structure and lack of cohesive material. The attached double-ring infiltration test results confirm this assessment and demonstrate that the field-measured infiltration rates are consistent with, and support, the design assumptions used in the stormwater calculations.

The testing is located at locations where previous soil testing was completed confirming infiltration rates to be used in the stormwater calculations. The results of the testing are as follows:

Infiltration Test 1 (DRI-1)

Double-ring infiltration (DRI) testing was completed at the locations of Test Pits TP-1A through TP-1C and TP-15. The DRI testing provided a rate of 36"/hour.

A rate of 15"/hour was used in the canulations for subsurface infiltration chamber system 1C. DEP policy allows using half the filed measured rate. For the open infiltration basin 1 the Rawls rate of 8.27"/hour was used due to the surface proposed as a grassed surface and directly discharging to the highly preamble "C" soil layer.

Infiltration Test 2 (DRI-2)

Double-ring infiltration (DR-2) testing was Completed in the location of test pits TP -F, G 7 H. The DR-2 testing provided a rate of 20"/hour.

A rate of 10"/hour was used in the canulations for subsurface infiltration chamber basin 1A. DEP policy allows using half the filed measured rate.

infiltration Test 3 (DRI-3)

Double-ring infiltration (DR-3) testing was completed at the locations of Test Pits TP-I. TP-J & TP=K The field testing yielded an infiltration rate of 90 inches per hour

A rate of 30"/hour was used in the canulations for subsurface infiltration chamber system 1A. DEP policy allows using half the filed measured rate. While DEP allows half the tested rate, we have used a maximum infiltration rate of 30 inches per hour in the calculations.

infiltration Test 4 (DRI-4)

Double-ring infiltration (DR-4) testing was completed at the locations of Test Pit TP-16B. The field testing yielded an infiltration rate of 42 inches per hour

A rate of 20"/hour was used in the canulations for subsurface inflation chamber systems 3 & 3A. DEP policy allows using half the filed measured rate.

infiltration Test 5 (DRI-5)

Double-ring infiltration (DR-5) testing was completed at the locations of Test Pit TP-2A., 2B & 2C. The field testing yielded an infiltration rate of 65 inches per hour

A rate of 30"/hour was used in the canulations for subsurface inflation chamber system 3B. DEP policy allows using half the filed measured rate.

infiltration Test 6 (DRI-6)

Double-ring infiltration (DR-6) testing was completed at the locations of Test Pit TP-24., 4B & 4C. The field testing yielded an infiltration rate of 36 inches per hour

A rate of 30"/hour was used in the canulations for subsurface inflation chamber systems 3D, 3E & 3F. DEP policy allows using half the filed measured rate.

infiltration Test 7 (DRI-7)

Double-ring infiltration (DR-7) testing was completed at the locations of Test Pit TP-16A. The field testing yielded an infiltration rate of 83 inches per hour

A rate of 20"/hour was used in the calculations for subsurface inflation chamber system 2. While DEP policy allows using half the filed measured rate a reduced rate was used given the results nearby at DRI-4

infiltration Test 8 (DRI-8)

Double-ring infiltration (DR-8) testing was completed at the locations of Test Pit TP-C, TP-D & TP-E. The field testing yielded an infiltration rate of 80 inches per hour

The subsurface chamber system has been removed from this area with the updated design.

infiltration Test 9 (DRI-9)

Double-ring infiltration (DR-9) testing was completed at the locations of Test Pit TP-3A, 3B & 3C. The field testing yielded an infiltration rate of 14 inches per hourC

A rate of 7"/hour was used in the calculations for subsurface inflation basin 4. DEP policy allows using half the filed measured rate.

SOIL SUITABILITY INFILTRATION TEST

DOUBLE RING INFILTROMETER

AMESBURY, MASSACHUSETTS

Golden Triangle, Amesbury, Massachusetts

<u>Double Ring Infiltrometer</u>	<u>Infiltration Test-1</u> Permeability Confirmation of TP-1A /Tp-15	<u>Infiltration Test-2</u> Permeability Confirmation of TP-G
Depth of test:	34" – Loamy Fine Sand	36" – Loamy Sand
Start Time (3")	0:00 minutes	0:00 minutes
Time at 0"	5:00 minutes	9:00 minutes
	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; i	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;
Average rate of infiltration (seconds per inch)	1.66 minutes per inch 36"/hr	3.0 minutes per inch 20"/hr

SOIL SUITABILITY INFILTRATION TEST

DOUBLE RING INFILTROMETER

AMESBURY, MASSACHUSETTS

Golden Triangle, Amesbury, Massachusetts

<u>Double Ring Infiltrometer</u>	<u>Infiltration Test-3</u> Permeability Confirmation of TP-J	<u>Infiltration Test-4</u> Permeability Confirmation of TP-16B
Depth of test:	37" -Loamy Sand	36"-loamy fine sand
Start Time (3")	0:00 minutes	0:00 minutes
Time at 0"	2:00 minutes	4:15 minutes
	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;
Average rate of infiltration (seconds per inch)	0.66 minutes per inch 90"/hr	1.42 minutes per inch 42"/hr

SOIL SUITABILITY INFILTRATION TEST

DOUBLE RING INFILTROMETER

AMESBURY, MASSACHUSETTS

Golden Triangle, Amesbury, Massachusetts

<u>Double Ring Infiltrometer</u>	<u>Infiltration Test-5</u> Permeability Confirmation of TP-17/TP-2B	<u>Infiltration Test-6</u> Permeability Confirmation of TP-4A
Depth of test:	33"-loamy fine sand	36"-snady loam
Start Time (3")	0:00 minutes	0:00 minutes
Time at 0"	2:30 minutes	5:00 minutes
	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;
Average rate of infiltration (seconds per inch)	0.92 minutes per inch 65"/hr	1.66 minutes per inch 36"/hr

SOIL SUITABILITY INFILTRATION TEST

DOUBLE RING INFILTROMETER

AMESBURY, MASSACHUSETTS

Golden Triangle, Amesbury, Massachusetts

<u>Double Ring Infiltrometer</u>	<u>Infiltration Test-7</u> Permeability Confirmation of TP-16A	<u>Infiltration Test-8</u> Permeability Confirmation of TP-D
Depth of test:	33" -loamy fine sand	38"-loamy fine sand
Start Time (3")	0:00 minutes	0:00 minutes
Time at 0"	2:10 minutes	2:15 minutes
	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content;
Average rate of infiltration (seconds per inch)	0.72 minutes per inch 83"/hr	0.75 minutes per inch 80"/hr

SOIL SUITABILITY INFILTRATION TEST

DOUBLE RING INFILTROMETER

AMESBURY, MASSACHUSETTS

Golden Triangle, Amesbury, Massachusetts

<u>Double Ring Infiltrometer</u>	<u>Infiltration Test-9</u> Permeability Confirmation of TP-3C	
Depth of test:	33"-loam fine sand	
Start Time (3")	0:00 minutes	
Time at 0"	13:00 minutes	s
	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix;	
Average rate of infiltration (seconds per inch)	4.33 minutes per inch 14"hr	

TP-1A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-1A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 20"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 72"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	31" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; redoxomorphic features observed at 31"; apparent water observed at 63"; no bedrock refusal at test hole depth.

Depth to bedrock: > 72" Seasonal High Groundwater Table: 31" Apparent water table: 63"

TP-1B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-1B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 23"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
23" → 71"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	25" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; redoxomorphic features observed at 25"; apparent water observed at 62"; no bedrock refusal at test hole depth.

Depth to bedrock: > 71"

Seasonal High Groundwater Table: 25"

Apparent water table: 62"

TP-1C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-1C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 21"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
21" → 68"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	27" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; ; redoximorphic features observed at 27"; apparent water observed at 60"; no bedrock refusal at test hole depth.

Depth to bedrock: > 68"

Seasonal High Groundwater Table: 27"

Apparent water table: 60"

TP-2A
283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.
Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass
Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-2A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
					BEDROCK REFUSAL AT 17"

Depth to bedrock: 17" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-2B

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-2B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 21"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
21" → 68"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	38" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; ; redoximorphic features observed at 38"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 68" Seasonal High Groundwater Table: 38" Apparent water table: ____

TP-2C

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-2C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 22"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
22" → 58"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; ; redoximorphic features observed at 36"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 58" Seasonal High Groundwater Table: 36" Apparent water table: ____

TP-3A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-3A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 12"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
12" → 20"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 75"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	60" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; redoxomorphic features observed at 60"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 75" Seasonal High Groundwater Table: 60" Apparent water table: ___

TP-3B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-3B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 19"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 80"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	58" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; redoximorphic features observed at 58"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 80" Seasonal High Groundwater Table: 58" Apparent water table: ___

TP-3C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-3C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 20"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 70"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	51" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; redoxomorphic features observed at 51"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 70" Seasonal High Groundwater Table: 51" Apparent water table: ___

TP-4A

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-4A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 26"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
26" → 70"	2C	Sandy Loam	2.5Y 5/3 light olive brown	28" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; redoxomorphic features observed at 28"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 70" Seasonal High Groundwater Table: 28" Apparent water table: ___

TP-4B

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-4B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 12"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
12" → 27"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
27" → 67"	2C	Sandy Loam	2.5Y 5/3 light olive brown	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >67" Seasonal High Groundwater Table: 30" Apparent water table: ___

TP-4C

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-4C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 24"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
24" → 65"	2C	Sandy Loam	2.5Y 5/3 light olive brown	28" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 28"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >65" Seasonal High Groundwater Table: 28" Apparent water table:

TP-4D

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-4D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 24"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
24" → 69"	2C	Sandy Loam	2.5Y 5/3 light olive brown	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >69" Seasonal High Groundwater Table: 30" Apparent water table: ___

TP-4D

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-4D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 24"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
24" → 69"	2C	Sandy Loam	2.5Y 5/3 light olive brown	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >69" Seasonal High Groundwater Table: 30" Apparent water table: ___

TP-5A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-5A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 19"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 23" BEDROCK AT 23"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 23" Seasonal High Groundwater Table: Apparent water table:

TP-5D

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-5D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 16"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 24" BEDROCK AT 24"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 24" Seasonal High Groundwater Table: Apparent water table:

TP-6A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-6A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 09"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 36" BEDROCK AT 36"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 36" Seasonal High Groundwater Table: Apparent water table:

TP-6B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-6B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 11"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 24" BEDROCK AT 24"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 24" Seasonal High Groundwater Table: Apparent water table:

TP-7A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-7A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 13" BEDROCK AT 13"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts; no redoxomorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 13" Seasonal High Groundwater Table: Apparent water table:

TP-7B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-7B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 18"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 31" BEDROCK AT 31"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 31" Seasonal High Groundwater Table: Apparent water table:

TP-7C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-7C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 16"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 30" BEDROCK AT 31"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 31" Seasonal High Groundwater Table: Apparent water table:

TP-8A

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-8A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 15"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.
					BEDROCK AT 15"

Depth to bedrock: 15" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-8B

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-8B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 12"	B _w	Sandy Loam Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.
					BEDROCK AT 12"

Depth to bedrock: 12" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-8C

283 Elm Street, Amesbury, Massachusetts

Date: October 12, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-8C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 14"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 23" BEDROCK AT 23"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 23" Seasonal High Groundwater Table: Apparent water table:

TP-9A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-9A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 17"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17" → 67"	2C	Sandy Loam	2.5Y 5/3 light olive brown	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 36"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >67" Seasonal High Groundwater Table: 36" Apparent water table: ___

TP-9B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-9B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 15"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 65"	2C	Sandy Loam	2.5Y 5/3 light olive brown	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 35"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >65" Seasonal High Groundwater Table: 35" Apparent water table: ___

TP-9C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-9C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 69"	2C	Sandy Loam	2.5Y 5/3 light olive brown	38" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 38"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >69" Seasonal High Groundwater Table: 38" Apparent water table:

TP-9D

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-9D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 17"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17" → 63"	2C	Sandy Loam	2.5Y 5/3 light olive brown	33" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 33"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >63" Seasonal High Groundwater Table: 33" Apparent water table: ___

TP-10A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-10A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 14"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 23" BEDROCK AT 23"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 23" Seasonal High Groundwater Table: Apparent water table:

TP-10B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-10B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 31" BEDROCK AT 31"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 31" Seasonal High Groundwater Table: Apparent water table:

TP-10C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-10C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 35" BEDROCK AT 35"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 35" Seasonal High Groundwater Table: Apparent water table:

TP-10D

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-10D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 13"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
13" → 22" BEDROCK AT 22"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 22" Seasonal High Groundwater Table: Apparent water table:

TP-11A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-11A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 72"	2C	Sandy Loam	2.5Y 5/3 light olive brown	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 72" Seasonal High Groundwater Table: 30" Apparent water table:

TP-11B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-11B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 74"	2C	Sandy Loam	2.5Y 5/3 light olive brown	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 74" Seasonal High Groundwater Table: 30" Apparent water table: ___

TP-11C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-11C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 20"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 72"	2C	Sandy Loam	2.5Y 5/3 light olive brown	29" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 29"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 72"

Seasonal High Groundwater Table: 29"

Apparent water table:

TP-11D

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-11D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 12"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
12" → 34" BEDROCK AT 34"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: 34" Seasonal High Groundwater Table: Apparent water table:

TP-12A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-12A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 27" BEDROCK AT 27"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 27" Seasonal High Groundwater Table: Apparent water table:

TP-12B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-12B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 14"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 20" BEDROCK AT 20"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 20" Seasonal High Groundwater Table: Apparent water table:

TP-12D

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-12D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 38" BEDROCK AT 38"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 38" Seasonal High Groundwater Table: Apparent water table:

TP-13A

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-13A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 69"	2C	Sandy Loam	2.5Y 5/3 light olive brown	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 35"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: > 69"

Seasonal High Groundwater Table: 35"

Apparent water table: ___

TP-13B

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-13B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 14"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 67"	2C	Sandy Loam	2.5Y 5/3 light olive brown	37" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 37"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: > 67"

Seasonal High Groundwater Table: 37"

Apparent water table: ___

TP-13C

283 Elm Street, Amesbury, Massachusetts

Date: October 11, 2024 Weather: Clear, 45°-50° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-13C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 69"	2C	Sandy Loam	2.5Y 5/3 light olive brown	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 35"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: > 69"

Seasonal High Groundwater Table: 35"

Apparent water table:

TP-L1

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L1

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 21"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
21" → 35" Bedrock at 35"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 35" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-L2

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L2

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 40" Bedrock at 35"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 15-25% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 40" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-L3

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L3

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 24" Bedrock at 24"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 15-25% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 40" Seasonal High Groundwater Table: Apparent water table:

TP-L4

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L4

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 24" Bedrock at 24"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 24" Seasonal High Groundwater Table: Apparent water table:

TP-L5

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L5

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 24" Bedrock at 32"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 32" Seasonal High Groundwater Table: Apparent water table:

TP-L6

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L6

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 59"	2C	Sandy Loam	2.5Y 5/3 light olive brown	39" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 39"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 59" Seasonal High Groundwater Table: 39" Apparent water table: ___

TP-L7

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L7

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 17"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17" → 59"	2C	Sandy Loam	2.5Y 5/3 light olive brown	28" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 28"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 59" Seasonal High Groundwater Table: 28" Apparent water table: ___

TP-L8

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L8

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 15"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 59"	2C	Sandy Loam	2.5Y 5/3 light olive brown	24" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 24"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 59"

Seasonal High Groundwater Table: 24"

Apparent water table:

TP-L9

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L9

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 40"	2C	Sandy Loam	2.5Y 5/3 light olive brown	28" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 28"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 40"

Seasonal High Groundwater Table: 28"

Apparent water table:

TP-L10

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L10

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 33" Bedrock at 33"	2C	Sandy Loam	2.5Y 5/3 light olive brown	28" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 28"; no apparent water observed; bedrock refusal at 33".

Depth to bedrock: 33" Seasonal High Groundwater Table: 28" Apparent water table:

TP-L11

283 Elm Street, Amesbury, Massachusetts

Date: January 13, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L11

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 20"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 57"	2C	Sandy Loam	2.5Y 5/3 light olive brown	31" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 31"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 57"

Seasonal High Groundwater Table: 31"

Apparent water table:

TP-L12

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L12

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 63"	2C	Sandy Loam	2.5Y 5/3 light olive brown	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 36"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 63"

Seasonal High Groundwater Table: 36"

Apparent water table:

TP-L13

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L13

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 24"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
24" → 60"	2C	Sandy Loam	2.5Y 5/3 light olive brown	38" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 38"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 60"

Seasonal High Groundwater Table: 38"

Apparent water table:

TP-L14

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L14

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 51"	2C	Sandy Loam	2.5Y 5/3 light olive brown	40" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 40"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 51"

Seasonal High Groundwater Table: 40"

Apparent water table:

TP-L15

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L15

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 61"	2C	Sandy Loam	2.5Y 5/3 light olive brown	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 35"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 61"

Seasonal High Groundwater Table: 35"

Apparent water table:

TP-L16

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L16

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 20"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 43" Bedrock at 43"	2C	Sandy Loam	2.5Y 5/3 light olive brown	32" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 32"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 43" Seasonal High Groundwater Table: 32" Apparent water table:

TP-L17

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L17

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 15"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 60"	2C	Sandy Loam	2.5Y 5/3 light olive brown	42" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 42"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 60"

Seasonal High Groundwater Table: 42"

Apparent water table:

TP-L18

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L18

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 13"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
13" → 22" Bedrock at 22"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 22" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-L19

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L19

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 43" Bedrock at 43"	2C	Sandy Loam	2.5Y 5/3 light olive brown	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 36"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 43" Seasonal High Groundwater Table: 36" Apparent water table:

TP-L20

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L20

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 60"	2C	Sandy Loam	2.5Y 5/3 light olive brown	32" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 32"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 60"

Seasonal High Groundwater Table: 32"

Apparent water table:

TP-L21

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L21

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 16"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 22" Bedrock at 22"	2C	Sandy Loam	2.5Y 5/3 light olive brown	none observed	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; no redoximorphic features observed; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 22" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-L22

283 Elm Street, Amesbury, Massachusetts

Date: January 14, 2025 Weather: Clear, 25°-38° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 05% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L22

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 21"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
21" → 53"	2C	Sandy Loam	2.5Y 5/3 light olive brown	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 10-15% sub-angular to sub-rounded gravel and 05-10% sub-rounded to angular cobble content of mixed lithology; redoximorphic features observed at 36"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 53"

Seasonal High Groundwater Table: 36"

Apparent water table:

TP-14B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-14B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 15"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
15" → 28"	B _C	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
28" → 68"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	48" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 48"; no apparent water observed; no bedrock encountered.

Depth to bedrock: > 68" Seasonal High Groundwater Table: 48" Apparent water table: > 68"

TP-14C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-14C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 16"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
16" → 27"	B _C	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
27" → 64"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	50" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 50": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 64" Seasonal High Groundwater Table: 50" Apparent water table: > 64"

TP-15

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-15

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
10" → 27"	B _C	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
27" → 69"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	33" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 33": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 69" Seasonal High Groundwater Table: 33" Apparent water table: > 69"

TP-16A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-16A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
05" → 20"	B _C	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
20" → 78"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02% rounded to subrounded gravel and cobble content of mixed lithology; no seasonal high-water table observed: no apparent water observed; no bedrock encountered.

Depth to bedrock: > 78" Seasonal High Groundwater Table: > 78" Apparent water table: > 78"

TP-16B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-16B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
07" → 22"	B _C	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 60"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02% rounded to subrounded gravel and cobble content of mixed lithology; no seasonal high-water table observed: no apparent water observed; no bedrock encountered.

Depth to bedrock: > 60" Seasonal High Groundwater Table: > 60" Apparent water table: > 60"

TP-17

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-17

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
09" → 20"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
20" → 61"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	34" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; ; redoximorphic features observed at 36"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 61" Seasonal High Groundwater Table: 34" Apparent water table: > 61"

TP-18A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-18A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 04"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
04" → 13"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
13" → 42" R @ 42"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 35"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 42" Seasonal High Groundwater Table: 35" Apparent water table: > 42"

TP-18B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-18B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
07" → 28"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
28" → 38" R @ 38"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	38" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 38"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 38" Seasonal High Groundwater Table: 38" Apparent water table: > 38"

TP-18C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-18C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
05" → 22"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 35" R @ 35"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	33" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 33"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 35" Seasonal High Groundwater Table: 33" Apparent water table: > 35"

TP-19A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-19A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
05" → 22"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 47"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	39" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 39"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >47" Seasonal High Groundwater Table: 39" Apparent water table: > 47"

TP-19B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-19B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
06" → 21"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
21" → 47"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	37" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 37"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: >47" Seasonal High Groundwater Table: 37" Apparent water table: > 47"

TP-19C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-19C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
06" → 22"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 45 _R " Bedrock at 45"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	38" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 38"; no apparent water observed; bedrock refusal at test hole depth.

Depth to bedrock: 45" Seasonal High Groundwater Table: 38" Apparent water table: > 51"

TP-20A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-20A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 04"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
04" → 18"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
18" → 49"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	39" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 05% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 39"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >49" Seasonal High Groundwater Table: 39" Apparent water table: >49"

TP-20B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-20B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
06" → 25"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
25" → 48"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	40" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 40"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >48" Seasonal High Groundwater Table: 40" Apparent water table: >48"

TP-20C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-20C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
06" → 19"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
19" → 40"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	31" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 31"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 40" Seasonal High Groundwater Table: 31" Apparent water table: > 40"

TP-21A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-21A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
08" → 17"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
17" → 41"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	23" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 23"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: >41" Seasonal High Groundwater Table: 23" Apparent water table: >41"

TP-21B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-21B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
06" → 20"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
20" → 43"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 43" Seasonal High Groundwater Table: 30" Apparent water table: > 43"

TP-21C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-21C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
05" → 21"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
21" → 40"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	29" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 29"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 40" Seasonal High Groundwater Table: 29" Apparent water table: > 40"

TP-22A

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-22A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
08" → 21"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
21" → 39"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	29" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 29"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 39" Seasonal High Groundwater Table: 29" Apparent water table: > 39"

TP-22B

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-22B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
07" → 20"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
21" → 45"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	30" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 30"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 45" Seasonal High Groundwater Table: 30" Apparent water table: > 45"

TP-22C

283 Elm Street, Amesbury, Massachusetts

Date: July 28, 2025 Weather: Clear, 75°-80° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet
 Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► TP-22C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
05" → 16"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
16" → 40"	2C	Sandy Loam	2.5Y 6/2 light brownish gray	33" (m,3,p) 5YR 5/8 Gley 1 7/N	Friable to firm; moderately compact matrix; tight in-situ; massive to subangular platy structure of moderate grade; mixed fine-to-medium grained mineral content; crudely stratified; dry matrix; non-sticky; non-plastic; well graded; approximately 15% sub-angular to sub-rounded gravel content of mixed lithology; redoximorphic features observed at 33"; no apparent water observed; no bedrock refusal at test hole depth.

Depth to bedrock: > 40" Seasonal High Groundwater Table: 33" Apparent water table: > 40"

P24-1 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-1

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 08''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08'' → 17''	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17'' → 36''	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-2 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-2

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 15"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-3 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-3

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 15"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-4 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-4

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 14"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 33"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-5 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-5

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 05''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05'' → 16''	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16'' → 36''	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-6 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-6

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 14"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-7 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-7

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 07''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07'' → 15''	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15'' → 36''	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-8 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-8

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 21"	B _w	Loamy Fine Sand	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
21" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-9 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-9

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 08''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08'' → 20''	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20'' → 36''	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-10 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-10

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 14"	A _p	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 24"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
24" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-11 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-11

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A _p	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 20"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
20" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-12 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-12

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A _p	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 18"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 36"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-13 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-13

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 15"	A _p	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 19"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 35"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	none observed	Loose; single grained/structureless; non-cohesive; mixed medium to mostly fine-grained clean sand content; dry matrix; non-sticky; non-plastic; free of clasts; no observed apparent water or seasonal high- water table.

P24-14 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-14

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A _p	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15" → 19"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
19" → 35"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-15 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.
 Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat
 Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass
 Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet
 Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-15

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 14"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-16 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-16

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 13"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
13" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-17 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-17

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 07"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
07" → 16"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-18 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024

Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland

Landform: Outwash plain and ground moraine

Position on landscape: Tread/ flat

Slope aspect: Level

Slope (%): 00 – 02%

Slope complexity: Simple

Land Cover: Forest and meadow grass

Property line: 10+ feet

Drainage way: 50+ feet

Drinking water well: 100+ feet

Abutting septic system: 50+ feet

Wetlands: 50+ feet

Public water supply reservoir: 400+ feet

Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-18

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 22"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
22" → 36"	2C	Sandy Loam fine	2.5Y 5/6 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-19 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-19

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 09"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09" → 16"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 36"	2C	Sandy Loam fine	2.5Y 5/6 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-20 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-20

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
11" → 18"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
18" → 36"	2C	Sandy Loam fine	2.5Y 5/6 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-21 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F. still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-21

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 06"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
06" → 17"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17" → 36"	2C	Sandy Loam fine	2.5Y 5/6 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-22 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-22

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 17"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
17" → 36"	2C	Sandy Loam fine	2.5Y 5/6 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-23 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-23

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 05"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
05" → 16"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-24 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10+ feet Drainage way: 50+ feet Drinking water well: 100+ feet Abutting septic system: 50+ feet

Wetlands: 50+ feet Public water supply reservoir: 400+ feet Tributary to reservoir: 200+ feet

SOIL PROFILE ► P24-24

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 08"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
08" → 13"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
13" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-25 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-25

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 09''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09'' → 14''	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
14'' → 36''	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-26 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-26

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
10" → 16"	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
16" → 36"	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

P24-27 PROBE

283 Elm Street, Amesbury, Massachusetts

Date: October 04, 2024 Weather: Clear, 65°-70° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► P24-27

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00'' → 09''	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Friable; somewhat cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
09'' → 15''	B _w	Sandy Loam fine	10YR 5/4 yellowish brown	none observed	Friable; weak-grade, non-cohesive; mixed medium to mostly fine-grained mineral content; dry matrix; non-sticky; non-plastic; free of clasts.
15'' → 36''	2C	Sandy Loam fine	2.5Y 5/4 light olive brown	none observed	Loose; structureless; non-cohesive; mixed medium to fine-grained mineral content; tight in-situ; dry matrix; non-sticky; non-plastic; gritty matrix; no observed apparent water or seasonal high- water table.

TP-A

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-A

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 18"					Bedrock refusal at 18"

Depth to bedrock: 18" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-B

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-B

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 36"					Bedrock refusal at 36"

Depth to bedrock: 36" Seasonal High Groundwater Table: ____ Apparent water table: ____

TP-C

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-C

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
10" → 18"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
18" → 72"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	34" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 34": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 72" Seasonal High Groundwater Table: 34" Apparent water table:

TP-D

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-D

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 12"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
12" → 27"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
27" → 60"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 35": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 60" Seasonal High Groundwater Table: 35" Apparent water table:

TP-E

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-E

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 11"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
11" → 22"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 60"	2C	Loamy Fine Sand	2.5Y 6/2 light brownish gray	32" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 32": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 60" Seasonal High Groundwater Table: 32" Apparent water table:

TP-F

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-F

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
10" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
19" → 69"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	34" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 34": apparent water observed at 53"; no bedrock encountered.

Depth to bedrock: > 69" Seasonal High Groundwater Table: 34" Apparent water table: 53"

TP-G

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-G

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 12"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
12" → 23"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
23" → 68"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	35" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 35": apparent water observed at 59"; no bedrock encountered.

Depth to bedrock: > 68" Seasonal High Groundwater Table: 35" Apparent water table: 59"

TP-H

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-H

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 15"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
15" → 22"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
22" → 65"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	34" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 34": apparent water observed at 48"; no bedrock encountered.

Depth to bedrock: > 65" Seasonal High Groundwater Table: 34" Apparent water table: 48"

TP-I

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-I

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 12"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
12" → 24"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
24" → 74"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	42" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 42": no apparent water observed; no bedrock encountered.

Depth to bedrock: > 74" Seasonal High Groundwater Table: 42" Apparent water table:

TP-J

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-J

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 13"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
13" → 24"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
24" → 65"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	36" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 36"; apparent water observed at 60"; no bedrock encountered.

Depth to bedrock: > 65" Seasonal High Groundwater Table: 36" Apparent water table: 60"

TP-K

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-K

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 10"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
10" → 19"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
19" → 69"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	40" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 40"; apparent water observed at 60"; no bedrock encountered.

Depth to bedrock: > 69" Seasonal High Groundwater Table: 40" Apparent water table: 60"

TP-L

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-L

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 15"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
15" → 24"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
24" → 75"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	43" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 43"; apparent water observed at 66"; no bedrock encountered.

Depth to bedrock: >75" Seasonal High Groundwater Table: 43" Apparent water table: 66"

TP-M

283 Elm Street, Amesbury, Massachusetts

Date: October 16, 2025 Weather: Clear, 55°-60° F, still and dry.

Landscape: Upland Landform: Outwash plain and ground moraine Position on landscape: Tread/ flat

Slope aspect: Level Slope (%): 00 – 02% Slope complexity: Simple Land Cover: Forest and meadow grass

Property line: 10⁺ feet Drainage way: 50⁺ feet Drinking water well: 100⁺ feet Abutting septic system: 50⁺ feet

Wetlands: 50⁺ feet Public water supply reservoir: 400⁺ feet Tributary to reservoir: 200⁺ feet

SOIL PROFILE ► TP-M

Depth below land surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA/ NRCS)	Soil Color (Munsell)	Redoxomorphic Features/ ESHGWT	Consistence, grade, size, structure, grain size, soil moisture state, roots, horizon boundary, clasts, stratification, artifacts, restrictive features, etc.
00" → 13"	A	Sandy Loam fine	10YR 3/2 very dark grayish brown	none observed	Very friable; moderate-grade fine-to-medium sub-angular granular structure; slightly cohesive; fine grained mineral content; dry matrix; non-sticky; non-plastic; many shrub and tree roots; free of clasts; clear wavy boundary.
13" → 24"	B _w	Sandy Loam	10YR 5/4 yellowish brown	none observed	Very friable; weak-grade, fine, granular to sub-angular blocky structure; non-cohesive matrix; mixed medium to fine-grained mineral content; dry matrix; non-sticky; non-plastic; few tree roots; diffuse wavy boundary.
24" → 77"	2C	Loamy Sand	2.5Y 6/2 light brownish gray	43" (m,3,p) 5YR 5/8 Gley 1 7/N	Loose; unstable; single grained/ structureless; non-cohesive; mixed medium-to-coarse grained mineral content; stratified; dry matrix; non-sticky; non-plastic; approximately 02-05% rounded to subrounded gravel and cobble content of mixed lithology; seasonal high-water table observed at 46"; apparent water observed at 75"; no bedrock encountered.

Depth to bedrock: >77" Seasonal High Groundwater Table: 46" Apparent water table: 75"

IIX. Appendix

a. Groundwater Mounding Calculations

GROUNDWATER MOUNDING CALCULATIONS
ROCKY HILL MBTA COMMUNITY
ELM STREET - AMESBURY

STEPHEN SAWYER P.E.
MILLENIUM ENGINEERING
JUNE 29, 2028

The attached groundwater mounding calculations are based on the spreadsheet solving the Hantush (1967) equation for ground-water mounding beneath an infiltration basin as published by the USGS. The data input for the calculations area as follows:

Recharge Rate (R): Recalculate R for each BMP as the applied recharge flux, using the design recharge volume divided by the effective infiltration area, this volume is the total 24 hour of stormwater volume infiltration for the 10-year storm divided by the bottom area the infiltration basin.

Specific Yield (Sy): Is based upon the soil matrix below the infiltration basin. As recommended by the USGS materials, 0.28 was used in the South Neighborhood and 0.25 in the North Neighborhood.

Infiltration Duration (t): The duration is 1 day as based upon the duration for the storm events evaluated in the stormwater report.

Initial Thickness of Saturated Zone (hi(0)): Is the vertical distance from Estimated Seasonal High Groundwater (ESHGW) to bedrock or first encountered impermeable layer. While in the South Neighborhood we estimate ledge to be a minimum of 20 feet below grade, we have used 10 ft.as recommended input if dimension has not been verified. In the North Neighborhood this dimension was reduced based upon the ledge depth as found in text pits. .

Hydraulic Conductivity (K): This value is 10 times the infiltration rate used in the calculations as specified in the directions found in the USGS Hantuch Spreadsheet.

MOUNDING ANALYSIS

Based upon the following calculations the groundwater mounding will not impact the performance of the infiltration systems for Standards 2 or 3 as the groundwater mounding encountered are well below the lowest recharge volume outlet or control orifice outlet.

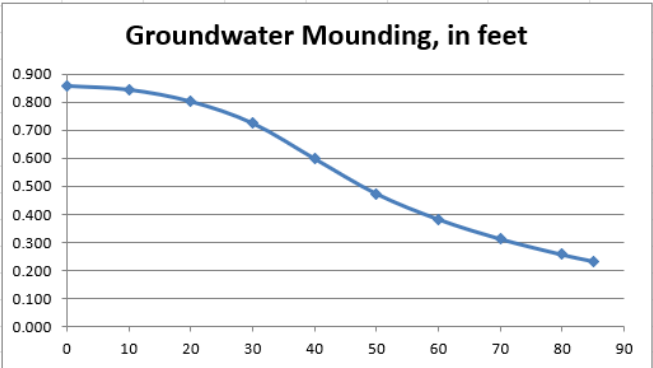
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Infiltration Basin 1

$R = 0.121 \text{ af} / 2,165 \text{ sf (basin area)} = 2.43 \text{ ft/day}$
 $S_y = 0.28$ (medium sand)
 $K = 8.27''/\text{hour} \times 10 = 165 \text{ ft./day}$
 ESHGW Elev.=43.3
 Bottom basin/stone elevation=45.5
 Lowest outlet elevation=46.6
 Extreme groundwater mounding elevation=44.20

			use consistent units (e.g. feet & days or inches & hours)	Conversion Table		
Input Values				inch/hour	feet/day	
7	2.4400	R	Recharge (infiltration) rate (feet/day)	0.67	1.33	
8	0.280	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
9	165.00	K	Horizontal hydraulic conductivity, Kh (feet/day)*	2.00	4.00	
10	39.000	x	1/2 length of basin (x direction, in feet)			
11	13.000	y	1/2 width of basin (y direction, in feet)	hours	days	
12	1.000	t	duration of infiltration period (days)	36	1.50	
13	10.000	hi(0)	initial thickness of saturated zone (feet)			
14						
15	10.856	h(max)	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)			
16	0.856	Δh(max)	maximum groundwater mounding (beneath center of basin at end of infiltration period)			
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet				
18	0.856	0	 Re-Calculate Now			
19	0.843	10				
20	0.801	20				
21	0.724	30				
22	0.598	40				
23	0.473	50				
24	0.383	60				
25	0.313	70				
26	0.257	80				
27	0.234	85				
28						
29						
30						
31						
32						
33						
34	Disclaimer					



Distance from center (ft)	Mounding (ft)
0	0.856
10	0.843
20	0.801
30	0.724
40	0.598
50	0.473
60	0.383
70	0.313
80	0.257
85	0.234

Infiltration Chamber 1A

18'x100'

R=0.037af / 1,800 sf (chamber area) = 0.90 ft/day

Sy=0.28 (medium sand)

K= 10"/hour x 10 = 200 ft./day

ESHGW Elev.=44.8

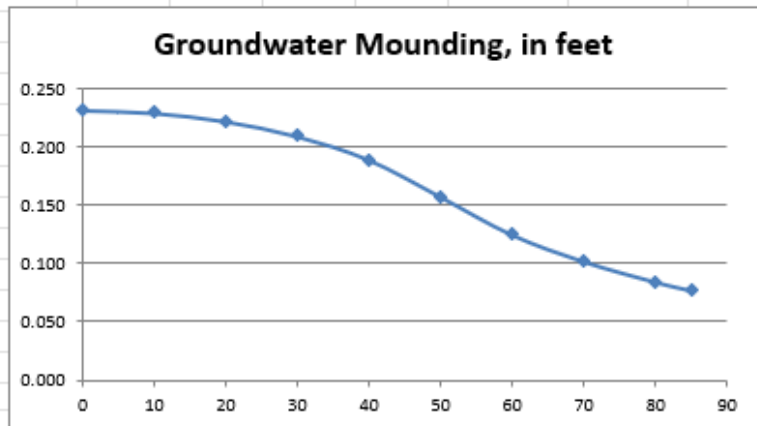
Bottom basin/stone elevation=47.7

Lowest outlet elevation=52.0

Extreme groundwater mounding elevation=45.0

5				use consistent units (e.g. feet & days OR inches & hours)		Conversion Table		
6	Input Values					inch/hour	feet/day	
7	0.9000	R		Recharge (infiltration) rate (feet/day)		0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)				
9	200.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*		2.00	4.00	
10	50.000	x		1/2 length of basin (x direction, in feet)				
11	9.000	y		1/2 width of basin (y direction, in feet)		hours	days	
12	1.000	t		duration of infiltration period (days)		36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)				
14								
15	10.231	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)				
16	0.231	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)				
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet						
18	0.231	0						
19	0.229	10						
20	0.222	20						
21	0.209	30						
22	0.189	40						
23	0.157	50						
24	0.125	60						
25	0.102	70						
26	0.084	80						
27	0.077	85						
28								
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33								
34	Disclaimer							

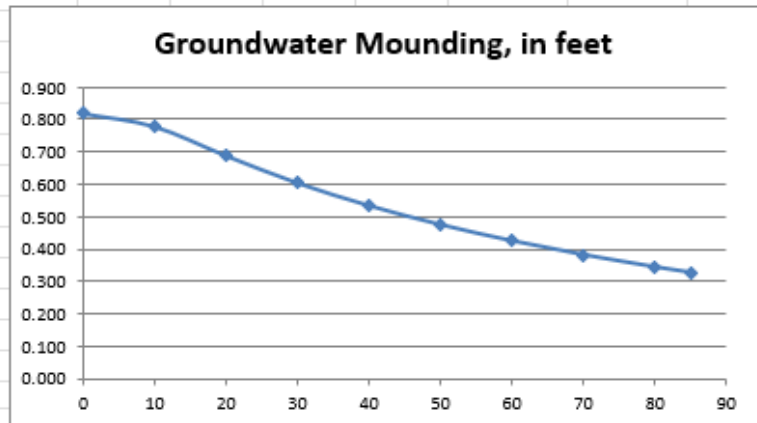
Re-Calculate Now



26'x72'

Extreme groundwater mounding elevation=47.5

Re-Calculate Now

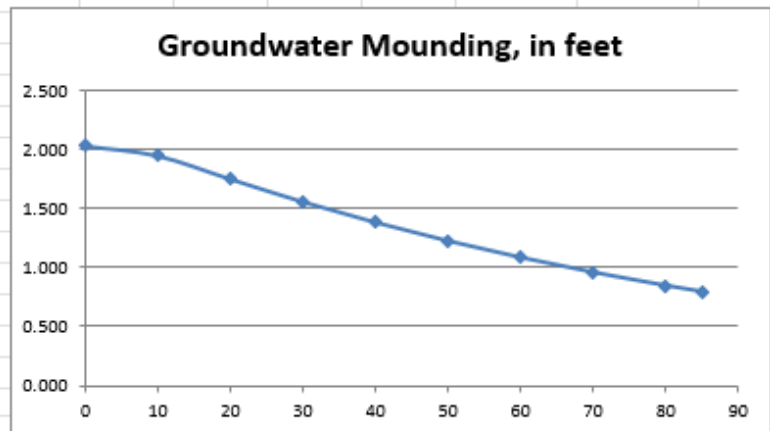


26'x142'

Extreme groundwater mounding elevation=46.8



Re-Calculate Now



Infiltration Chamber 2

25.25'x110.42'

$R = 0.391af / 2,788 \text{ sf (chamber area)} = 6.68 \text{ ft/day}$

$S_y = 0.28$ (medium sand)

$K = 20''/\text{hour} \times 10 = 400 \text{ ft./day}$

ESHGW Elev.=48.50

Bottom basin/stone elevation=51.0

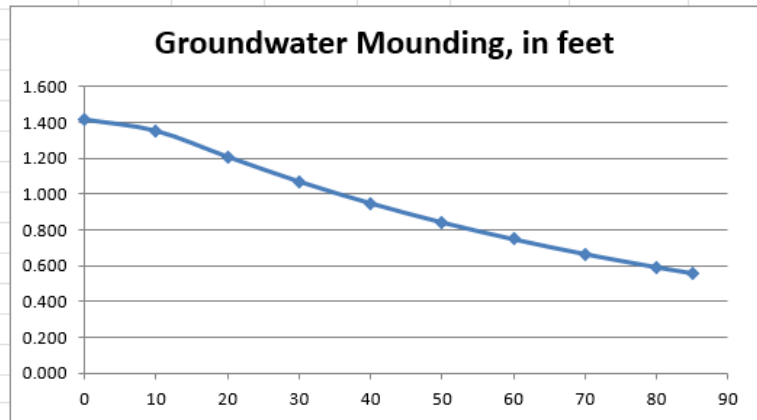
Lowest outlet elevation=54.0

Extreme groundwater mounding elevation=49.9

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	6.6800	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	400.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	In the report: (USGS SIR 2011) permeability horizontal hy
10	12.600	x		1/2 length of basin (x direction, in feet)								
11	55.200	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	11.415	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	1.415	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	1.415	0										
19	1.352	10										
20	1.208	20										
21	1.070	30										
22	0.949	40										
23	0.843	50										
24	0.749	60										
25	0.666	70										
26	0.593	80										
27	0.560	85										
28												
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31												
32												
33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 3

20.50'x110.42'

R=0.391af / 2,788 sf (chamber area) = 6.68 ft/day

Sy=0.28 (medium sand)

K= 20"/hour x 10 = 400 ft./day

ESHGW Elev.=>50.0

Bottom basin/stone elevation=52.50

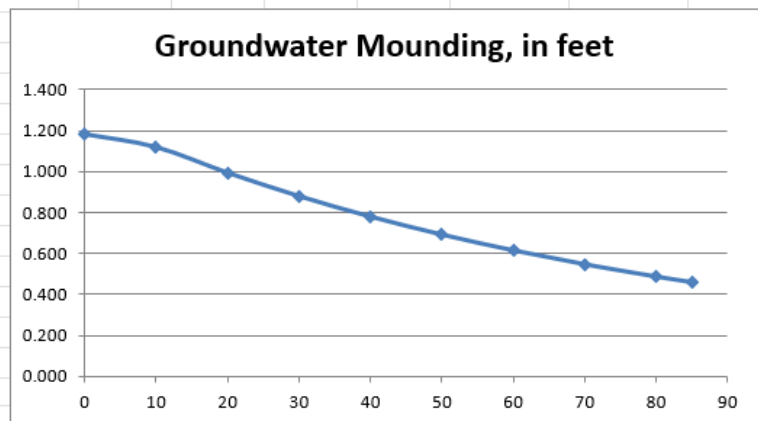
Lowest outlet elevation=55.50

Extreme groundwater mounding elevation=51.4

			use consistent units (e.g. feet & days or inches & hours)	Conversion Table		
Input Values				inch/hour	feet/day	
7	6.6800	R	Recharge (infiltration) rate (feet/day)	0.67	1.33	
8	0.280	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
9	400.00	K	Horizontal hydraulic conductivity, Kh (feet/day)*	2.00	4.00	
10	10.300	x	1/2 length of basin (x direction, in feet)			
11	55.200	y	1/2 width of basin (y direction, in feet)	hours	days	
12	1.000	t	duration of infiltration period (days)	36	1.50	In the report ac (USGS SIR 2010 permeability (ft horizontal hydr
13	10.000	hi(0)	initial thickness of saturated zone (feet)			
14						
15	11.183	h(max)	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)			
16	1.183	Δh(max)	maximum groundwater mounding (beneath center of basin at end of infiltration period)			
	Ground- water Mounding, in feet	Distance from center of basin in x direction, in feet				
17						
18	1.183	0				
19	1.120	10				
20	0.995	20				
21	0.880	30				
22	0.780	40				
23	0.692	50				
24	0.615	60				
25	0.547	70				
26	0.487	80				
27	0.459	85				
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34	Disclaimer					



Re-Calculate Now



18'x58'

Sy=0.28 (medium sand)

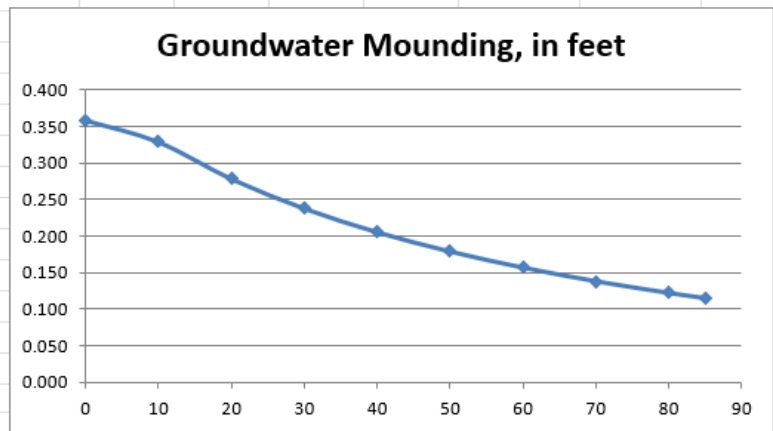
ESHGW Elev.=46.5

Lowest outlet elevation=53.0

Extreme groundwater mounding elevation=46.9



Re-Calculate Now



Infiltration Chamber 3B

25.25'x89.06'

R=0.251af / 2,247 sf (chamber area) = 4.87 ft/day

Sy=0.28 (medium sand)

K= 30"/hour x 10 = 600 ft./day

ESHGW Elev.=46.5

Bottom basin/stone elevation=49.00

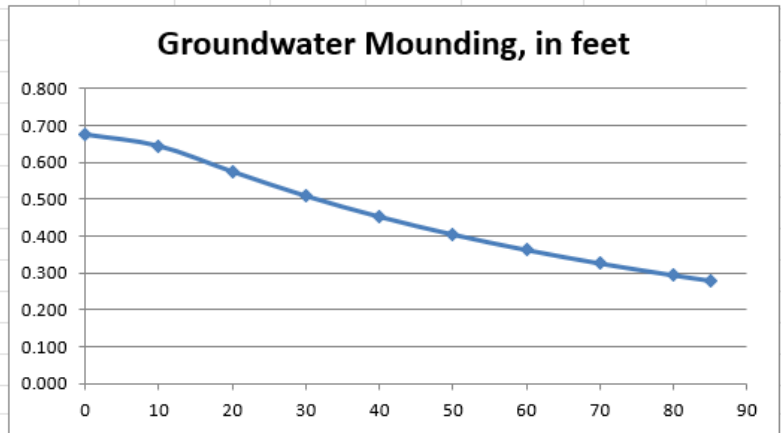
Lowest outlet elevation=51.9

Extreme groundwater mounding elevation=47.2

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	4.8700	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	600.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	In the report (USGS SIR 2C permeability horizontal h
10	12.600	x		1/2 length of basin (x direction, in feet)								
11	44.500	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	10.675	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	0.675	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
17												
18	0.675	0										
19	0.644	10										
20	0.575	20										
21	0.509	30										
22	0.453	40										
23	0.405	50										
24	0.363	60										
25	0.327	70										
26	0.295	80										
27	0.280	85										
28												
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33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 3C

18'x58'

$R = 0.065 \text{ af} / 1.044 \text{ sf (chamber area)} = 2.71 \text{ ft/day}$

$S_y = 0.28$ (medium sand)

$K = 15''/\text{hour} \times 10 = 300 \text{ ft./day}$

ESHW Elev.=51.9

Bottom basin/stone elevation=54.50

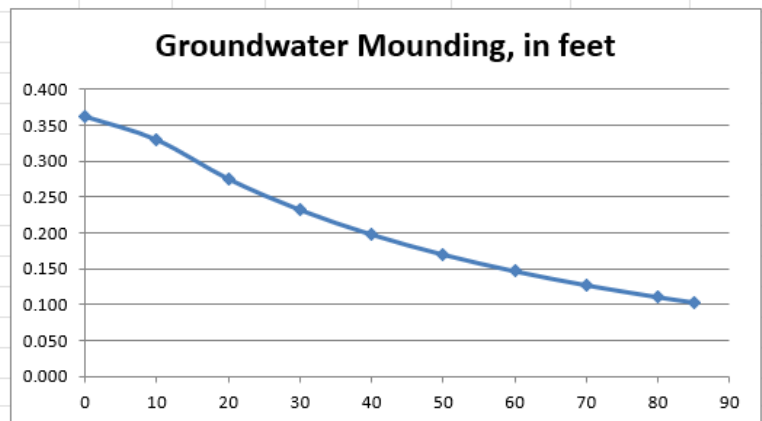
Lowest outlet elevation=51.9

Extreme groundwater mounding elevation=52.3

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	2.7100	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	300.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	9.000	x		1/2 length of basin (x direction, in feet)								
11	29.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	10.363	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	0.363	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
17												
18	0.363	0										
19	0.330	10										
20	0.276	20										
21	0.233	30										
22	0.198	40										
23	0.170	50										
24	0.147	60										
25	0.127	70										
26	0.111	80										
27	0.103	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 3D

34.75'x67.7'

R=0.123 af / 2,353 sf (chamber area) = 2.28 ft/day

Sy=0.28 (medium sand)

K= 15"/hour x 10 = 300 ft./day

ESHW Elev.=51.9

Bottom basin/stone elevation=54.00

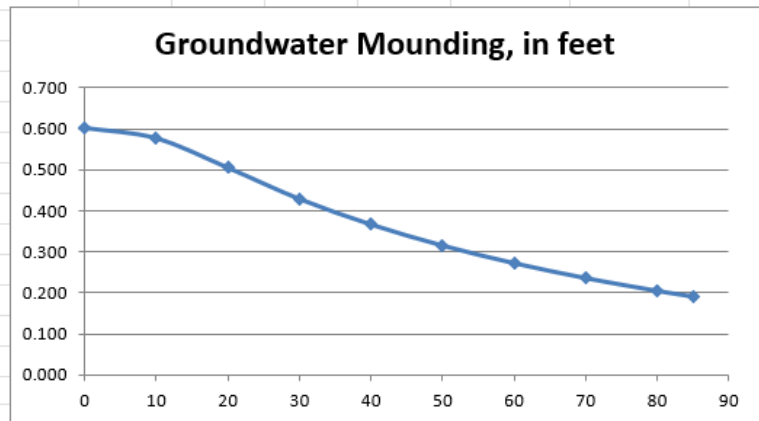
Lowest outlet elevation=57.00

Extreme groundwater mounding elevation=52.5

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	2.2800	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	300.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	17.300	x		1/2 length of basin (x direction, in feet)								
11	33.900	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	10.601	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	0.601	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	0.601	0										
19	0.576	10										
20	0.505	20										
21	0.429	30										
22	0.367	40										
23	0.315	50										
24	0.273	60										
25	0.236	70										
26	0.205	80										
27	0.192	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 3E

18'x44'

R=0.049 af / 792sf (chamber area) = 2.70 ft/day

Sy=0.28 (medium sand)

K= 15"/hour x 10 = 300 ft./day

ESHGW Elev.=52.9

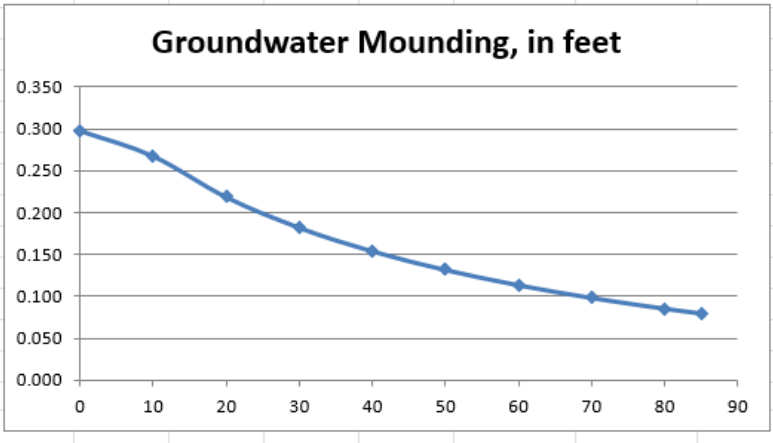
Bottom basin/stone elevation=55.00

Lowest outlet elevation=59.00

Extreme groundwater mounding elevation=53.2

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	2.7000	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	300.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	9.000	x		1/2 length of basin (x direction, in feet)								In the repo (USGS SIR 2 permeabili horizontal
11	22.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	10.298	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	0.298	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	0.298	0										
19	0.268	10										
20	0.219	20										
21	0.182	30										
22	0.154	40										
23	0.132	50										
24	0.113	60										
25	0.098	70										
26	0.085	80										
27	0.080	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											


Re-Calculate Now



Groundwater Mounding, in feet

Distance from center (ft)	Mounding (ft)
0	0.300
10	0.268
20	0.219
30	0.182
40	0.154
50	0.132
60	0.113
70	0.098
80	0.085
85	0.080

Infiltration Chamber 3F

18'x72'

R=0.103 af / 1,296sf (chamber area) = 3.56 ft/day

Sy=0.28 (medium sand)

K= 15"/hour x 10 = 300 ft./day

ESHGW Elev.=51.9

Bottom basin/stone elevation=54.00

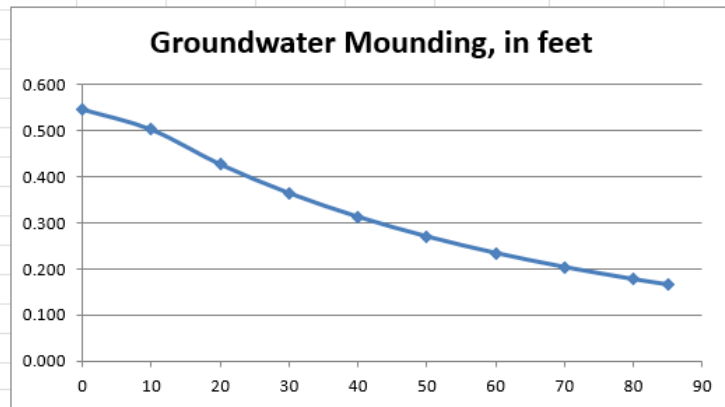
Lowest outlet elevation=59.00

Extreme groundwater mounding elevation=52.5

	A	B	C	D	E	F	G	H	I	J	K	L	M
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table			
6	Input Values									inch/hour	feet/day		
7	3.5600	R		Recharge (infiltration) rate (feet/day)						0.67	1.33		
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)									
9	300.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00		
10	9.000	x		1/2 length of basin (x direction, in feet)									
11	36.000	y		1/2 width of basin (y direction, in feet)						hours	days		
12	1.000	t		duration of infiltration period (days)						36	1.50		
13	10.000	hi(0)		initial thickness of saturated zone (feet)									
14													
15	10.546	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)									
16	0.546	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)									
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet											
18	0.546	0											
19	0.502	10											
20	0.427	20											
21	0.364	30											
22	0.313	40											
23	0.270	50											
24	0.234	60											
25	0.203	70											
26	0.177	80											
27	0.165	85											
28													
29													
30													
31													
32													
33													
34	Disclaimer												
	This spreadsheet solving the Hantush (1967) equation for ground-water mounding beneath an												



Re-Calculate Now



Infiltration Basin 3G

2,629sf

R=0.174 af / 2,629sf (basin area) = 2.88 ft/day

Sy=0.28 (medium sand)

K= 7"/hour x 10 = 140 ft./day

ESHGW Elev.=47.0

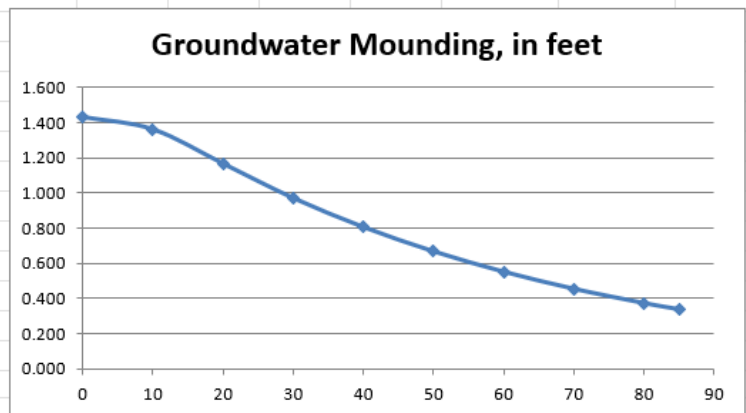
Bottom basin/stone elevation=50.00

Lowest outlet elevation=54.00

Extreme groundwater mounding elevation=48.4

	A	B	C	D	E	F	G	H	I	J	K	L	M
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table			
6	Input Values									inch/hour	feet/day		
7	2.8800	R		Recharge (infiltration) rate (feet/day)						0.67	1.33		
8	0.280	Sy		Specific yield, Sy (dimensionless, between 0 and 1)									
9	140.00	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00		
10	16.000	x		1/2 length of basin (x direction, in feet)									In the report acc (USGS SIR 2010-1 permeability (ft/ horizontal hydra
11	44.000	y		1/2 width of basin (y direction, in feet)						hours	days		
12	1.000	t		duration of infiltration period (days)						36	1.50		
13	10.000	hi(0)		initial thickness of saturated zone (feet)									
14													
15	11.434	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)									
16	1.434	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)									
17	Ground- water Mounding, in feet	Distance from center of basin in x direction, in feet											
18	1.434	0											
19	1.364	10											
20	1.169	20											
21	0.972	30											
22	0.807	40											
23	0.668	50											
24	0.552	60											
25	0.455	70											
26	0.374	80											
27	0.338	85											
28													
29													
30													
31													
32													
33													
34	Disclaimer												

Re-Calculate Now



Infiltration Chamber 4

42'x72'

$R = 0.102 \text{ af} / 3,024 \text{ sf (chamber area)} = 1.47 \text{ ft/day}$

$S_y = 0.25$ (fine sand)

$K = 1.02''/\text{hour} \times 10 = 20.4 \text{ ft./day}$

ESHGW Elev.=50.9

Bottom basin/stone elevation=54.50

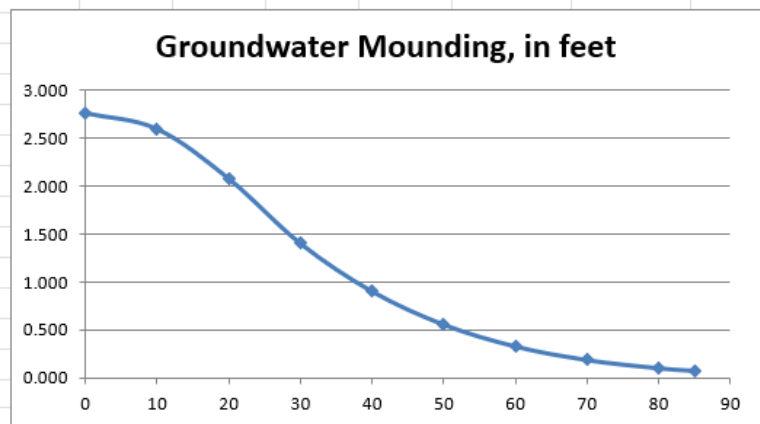
Lowest outlet elevation=56.70

Extreme groundwater mounding elevation=53.7

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.4700	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	21.000	x		1/2 length of basin (x direction, in feet)								In the report (USGS SIR 2 permeability horizontal)
11	36.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	12.768	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	2.768	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
17												
18	2.768	0										
19	2.603	10										
20	2.084	20										
21	1.406	30										
22	0.904	40										
23	0.557	50										
24	0.329	60										
25	0.187	70										
26	0.102	80										
27	0.074	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 4A

26'x58'

R=0.042 af / 1,508 sf (chamber area) = 1.21 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=48.0

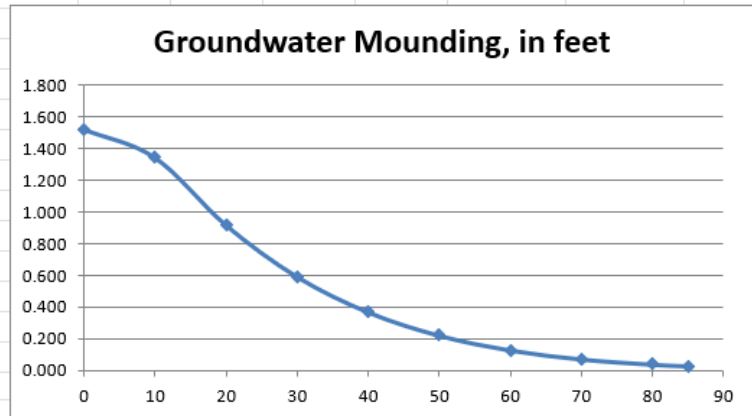
Bottom basin/stone elevation=55.00

Lowest outlet elevation=59.00

Extreme groundwater mounding elevation=49.5

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.2100	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	13.000	x		1/2 length of basin (x direction, in feet)								In the report at (USGS SIR 2010 permeability (f horizontal hydi
11	29.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	11.525	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	1.525	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	1.525	0										
19	1.346	10										
20	0.919	20										
21	0.593	30										
22	0.369	40										
23	0.221	50										
24	0.128	60										
25	0.071	70										
26	0.038	80										
27	0.028	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											

Re-Calculate Now



Infiltration Chamber 4B

18'x72'

R=0.038 af / 1,296 sf (chamber area) = 1.28 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHW Elev.=55.5

Bottom basin/stone elevation=58.50

Lowest outlet elevation=62.00

Extreme groundwater mounding elevation=49.5

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.2800	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	9.000	x		1/2 length of basin (x direction, in feet)								In the report (USGS SIR 20: permeability horizontal hy
11	36.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	11.313	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	1.313	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	1.313	0										
19	1.091	10										
20	0.740	20										
21	0.482	30										
22	0.301	40										
23	0.181	50										
24	0.105	60										
25	0.058	70										
26	0.032	80										
27	0.023	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											

Re-Calculate Now

Distance from center (ft)	Mounding (ft)
0	1.313
10	1.091
20	0.740
30	0.482
40	0.301
50	0.181
60	0.105
70	0.058
80	0.032
85	0.023

Infiltration Chamber 5

35.5'x30'

R=0.043 af / 1,065 sf (chamber area) = 1.76 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=56.4'

Bottom basin/stone elevation=59.00'

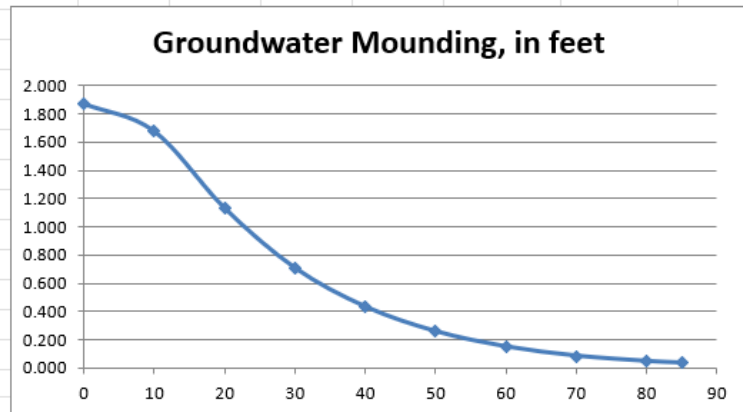
Lowest outlet elevation=61.20

Extreme groundwater mounding elevation=58.3

	A	B	C	D	E	F	G	H	I	J	K	L	M
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table			
6	Input Values									inch/hour	feet/day		
7	1.7600	R		Recharge (infiltration) rate (feet/day)						0.67	1.33		
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)									
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00		
10	15.000	x		1/2 length of basin (x direction, in feet)									
11	17.800	y		1/2 width of basin (y direction, in feet)						hours	days		
12	1.000	t		duration of infiltration period (days)						36	1.50		
13	10.000	hi(0)		initial thickness of saturated zone (feet)									
14													
15	11.873	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)									
16	1.873	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)									
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet											
18	1.873	0											
19	1.678	10											
20	1.131	20											
21	0.706	30											
22	0.431	40											
23	0.256	50											
24	0.147	60											
25	0.082	70											
26	0.045	80											
27	0.033	85											
28													
29													
30													
31													
32													
33													
34	Disclaimer												



Re-Calculate Now



Infiltration Chamber 6

20.50'x39.22'

R=0.039 af / 804 sf (chamber area) = 2.11 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=58.7'

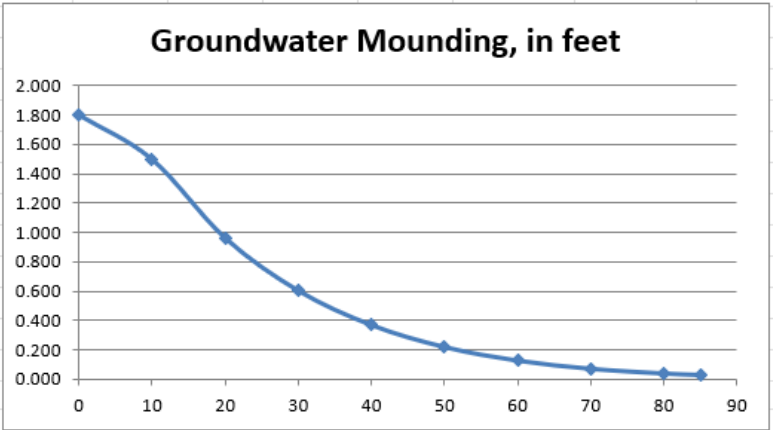
Bottom basin/stone elevation=61.00'

Lowest outlet elevation=63.50

Extreme groundwater mounding elevation=60.5

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	2.1100	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	10.300	x		1/2 length of basin (x direction, in feet)								
11	19.500	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	11.799	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	1.799	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	1.799	0										
19	1.497	10										
20	0.961	20										
21	0.602	30										
22	0.367	40										
23	0.218	50										
24	0.125	60										
25	0.069	70										
26	0.038	80										
27	0.028	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											


Re-Calculate Now



Groundwater Mounding, in feet

Distance from center of basin (feet)	Mounding Height (feet)
0	1.799
10	1.497
20	0.961
30	0.602
40	0.367
50	0.218
60	0.125
70	0.069
80	0.038
85	0.028

Infiltration Chamber 7

44'x44'

R=0.098 af / 1,936 sf (chamber area) = 2.21 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHW Elev.=57.7'

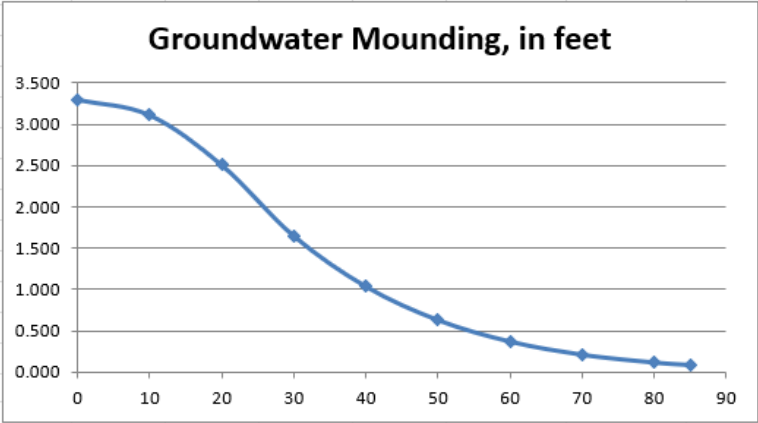
Bottom basin/stone elevation=60.30'

Lowest outlet elevation=63.10

Extreme groundwater mounding elevation=61.0

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	2.2100	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	22.000	x		1/2 length of basin (x direction, in feet)								In the report at (USGS SIR 2010) permeability (f horizontal hyd
11	22.000	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	13.299	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	3.299	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	3.299	0										
19	3.113	10										
20	2.508	20										
21	1.646	30										
22	1.034	40										
23	0.627	50										
24	0.366	60										
25	0.207	70										
26	0.113	80										
27	0.082	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											


Re-Calculate Now



Groundwater Mounding, in feet

Distance from center (ft)	Mounding Height (ft)
0	3.299
10	3.113
20	2.508
30	1.646
40	1.034
50	0.627
60	0.366
70	0.207
80	0.113
85	0.082

Infiltration Chamber 8

25.25'x46.34'

R=0.031 af / 1,170 sf (chamber area) = 1.15 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHW Elev.=57.0'

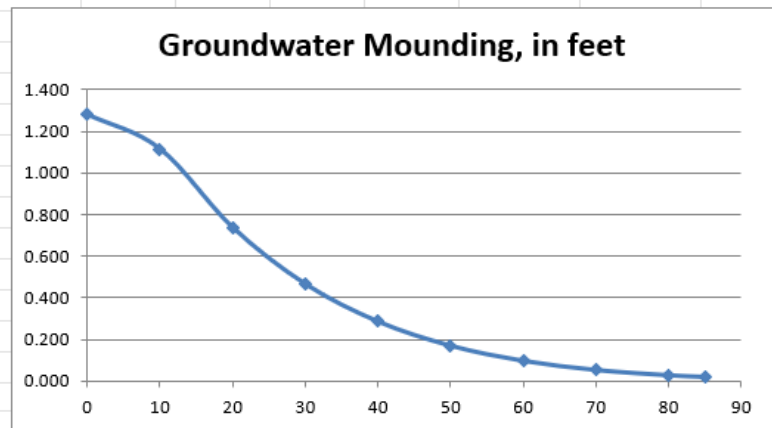
Bottom basin/stone elevation=60.00'

Lowest outlet elevation=62.60

Extreme groundwater mounding elevation=58.3

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.1500	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	12.600	x		1/2 length of basin (x direction, in feet)								In the report (USGS SIR 20 permeability, horizontal h
11	23.200	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	11.279	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	1.279	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	1.279	0										
19	1.115	10										
20	0.739	20										
21	0.467	30										
22	0.287	40										
23	0.171	50										
24	0.098	60										
25	0.055	70										
26	0.030	80										
27	0.022	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											

Re-Calculate Now



Infiltration Chamber 9

30'x42'

R=0.035 af / 1,525 sf (chamber area) = 1.00 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=56.9'

Bottom basin/stone elevation=59.00'

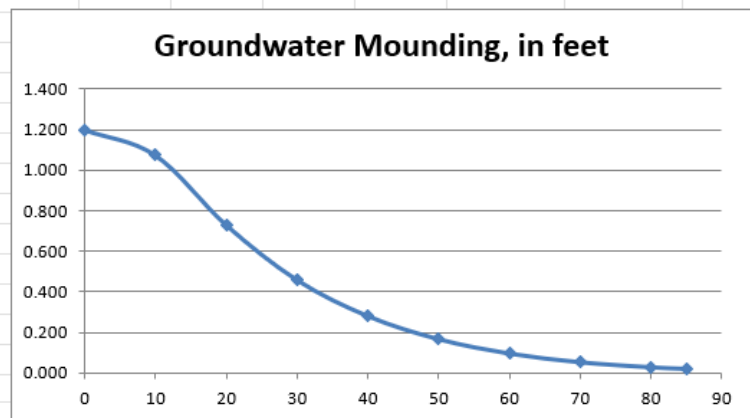
Lowest outlet elevation=63.00

Extreme groundwater mounding elevation=58.1

	A	B	C	D	E	F	G	H	I	J	K	L	M
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table			
6	Input Values									inch/hour	feet/day		
7	1.0000	R		Recharge (infiltration) rate (feet/day)						0.67	1.33		
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)									
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00		
10	15.000	x		1/2 length of basin (x direction, in feet)									
11	21.000	y		1/2 width of basin (y direction, in feet)						hours	days		
12	1.000	t		duration of infiltration period (days)						36	1.50		
13	10.000	hi(0)		initial thickness of saturated zone (feet)									
14													
15	11.199	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)									
16	1.199	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)									
	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet											
17													
18	1.199	0											
19	1.074	10											
20	0.730	20											
21	0.459	30											
22	0.281	40											
23	0.167	50											
24	0.096	60											
25	0.054	70											
26	0.029	80											
27	0.021	85											
28													
29													
30													
31													
32													
33													
34	Disclaimer												



Re-Calculate Now



Infiltration Chamber 10

34.75'x46.34'

R=0.064 af / 1,610 sf (chamber area) = 1.73 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=55.50'

Bottom basin/stone elevation=58.50'

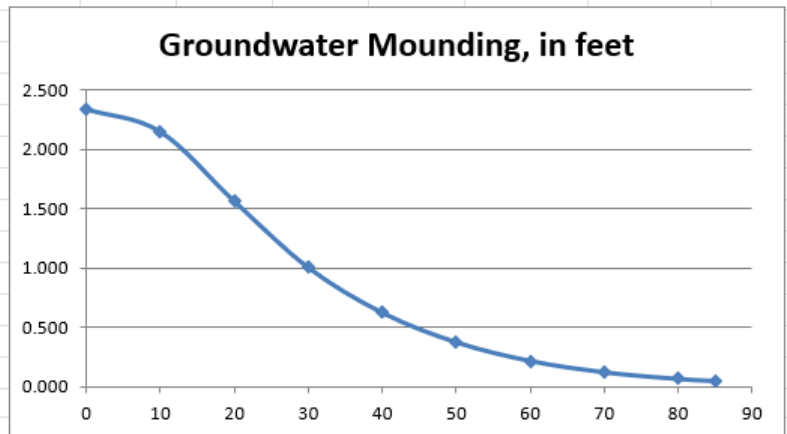
Lowest outlet elevation=60.90

Extreme groundwater mounding elevation=57.9

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.7300	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	In the report (USGS SIR 20 permeability horizontal h _y)
10	17.400	x		1/2 length of basin (x direction, in feet)								
11	23.100	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	10.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	12.346	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)								
16	2.346	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
17												
18	2.346	0										
19	2.156	10										
20	1.568	20										
21	1.007	30										
22	0.626	40										
23	0.376	50										
24	0.218	60										
25	0.122	70										
26	0.066	80										
27	0.048	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											



Re-Calculate Now



Infiltration Chamber 11

18'x58'

R=0.034 af / 1,044 sf (chamber area) = 1.42 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHW Elev.=56.50'

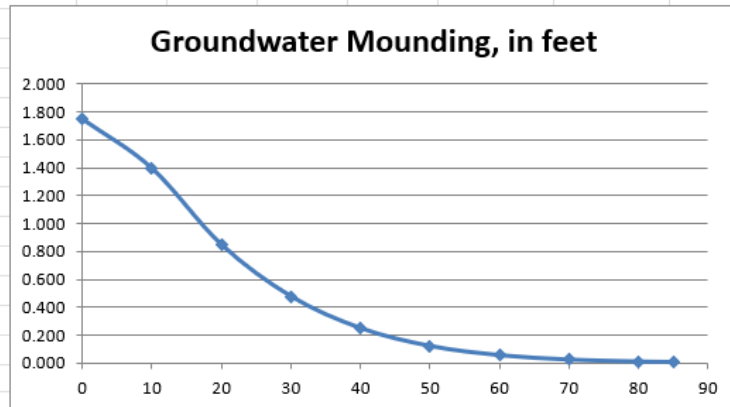
Bottom basin/stone elevation=58.50'

Lowest outlet elevation=60.90

Extreme groundwater mounding elevation=58.3

	A	B	C	D	E	F	G	H	I	J	K	L	M
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table			
6	Input Values									inch/hour	feet/day		
7	1.4200	R		Recharge (infiltration) rate (feet/day)						0.67	1.33		
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)									
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00		
10	9.000	x		1/2 length of basin (x direction, in feet)								In the report accoun (USGS SIR 2010-51)	
11	29.000	y		1/2 width of basin (y direction, in feet)						hours	days		
12	1.000	t		duration of infiltration period (days)						36	1.50	permeability (ft/d)	
13	6.000	hi(0)		initial thickness of saturated zone (feet)								horizontal hydraul	
14													
15	7.748	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration period)									
16	1.748	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)									
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet											
18	1.748	0											
19	1.396	10											
20	0.849	20											
21	0.478	30											
22	0.250	40											
23	0.122	50											
24	0.056	60											
25	0.024	70											
26	0.011	80											
27	0.007	85											
28													
29													
30													
31													
32													
33													
34	Disclaimer												

Re-Calculate Now



Infiltration Chamber 12

20.5'x53.46'

R=0.040 af / 1,096 sf (chamber area) = 1.59 ft/day

Sy=0.25 (fine sand)

K= 1.02"/hour x 10 = 20.4 ft./day

ESHGW Elev.=52.00'

Bottom basin/stone elevation=55.50'

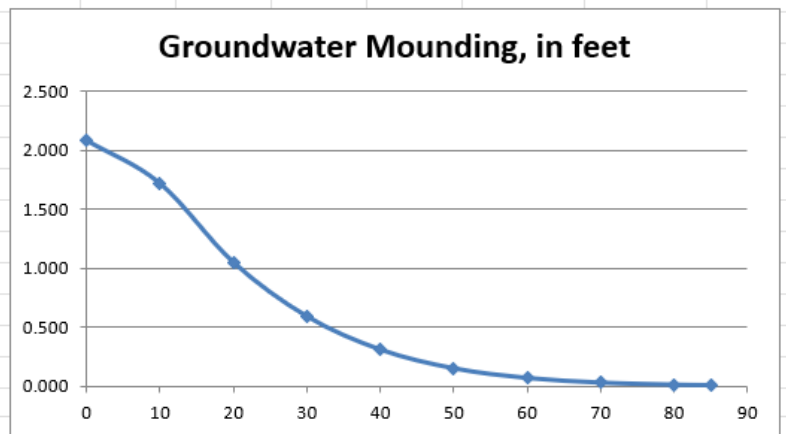
Lowest outlet elevation=58.70

Extreme groundwater mounding elevation=54.2

	A	B	C	D	E	F	G	H	I	J	K	L
5				use consistent units (e.g. feet & days or inches & hours)						Conversion Table		
6	Input Values									inch/hour	feet/day	
7	1.5900	R		Recharge (infiltration) rate (feet/day)						0.67	1.33	
8	0.250	Sy		Specific yield, Sy (dimensionless, between 0 and 1)								
9	20.40	K		Horizontal hydraulic conductivity, Kh (feet/day)*						2.00	4.00	
10	10.300	x		1/2 length of basin (x direction, in feet)								In the repo: (USGS SIR : permeabil horizontal
11	26.700	y		1/2 width of basin (y direction, in feet)						hours	days	
12	1.000	t		duration of infiltration period (days)						36	1.50	
13	6.000	hi(0)		initial thickness of saturated zone (feet)								
14												
15	8.083	h(max)		maximum thickness of saturated zone (beneath center of basin at end of infiltration peri								
16	2.083	Δh(max)		maximum groundwater mounding (beneath center of basin at end of infiltration period)								
17	Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet										
18	2.083	0										
19	1.719	10										
20	1.050	20										
21	0.592	30										
22	0.310	40										
23	0.151	50										
24	0.069	60										
25	0.030	70										
26	0.013	80										
27	0.009	85										
28												
29												
30												
31												
32												
33												
34	Disclaimer											



Re-Calculate Now



b. Water Quality Unit Sizing

Project: Rocky Hill MBTA Community
Location: Amesbury, MA
Prepared For: Millennium Engineering



Purpose: To calculate the water quality flow rate (WQF) over a given site area. In this situation the WQF is derived from the first 1 of runoff from the contributing impervious surface.

Reference: Massachusetts Dept. of Environmental Protection Wetlands Program / United States Department of Agriculture Natural Resources Conservation Service TR-55 Manual

Procedure: Determine unit peak discharge using Figure 3 or 4. Figure 4 is in tabular form so is preferred. Using the t_c , read the unit peak discharge (q_u) from Figure 3 or Table in Figure 4. q_u is expressed in the following units: cfs/mi²/watershed inches (csm/in).

Compute Q Rate using the following equation:

$$Q = (q_u) (A) (P)$$

where

:

Q = flow rate associated with first 1 of runoff

q_u = the unit peak discharge, in csm/in.

A = impervious surface drainage area (in square miles)

P = water quality volume in watershed inches (1 in this case)

WQV = impervious area (sq ft) * rainfall depth (P)

Structure Name	Impv. (acres)	A (miles ²)	t_c (min)	t_c (hr)	P (in)	WQv (cu ft) (Total)	q_u (csm/in.)	Q (cfs)
DMH 2	0.93	0.0014594	6.0	0.100	1.00	3390.4	774.00	1.13
DMH 6A	1.13	0.0017641	6.0	0.100	1.00	4096.6	774.00	1.37
DMH 16	0.57	0.0008938	6.0	0.100	1.00	2075.5	774.00	0.69
DMH 18	1.22	0.0019125	6.0	0.100	1.00	4441.3	774.00	1.48
DMH 24	0.44	0.0006875	6.0	0.100	1.00	1596.6	774.00	0.53
DMH 27A	0.83	0.0013000	6.0	0.100	1.00	3019.0	774.00	1.01
DMH 29	0.82	0.0012813	6.0	0.100	1.00	2975.4	774.00	0.99
CB 5	0.27	0.0004188	6.0	0.100	1.00	972.5	774.00	0.32
CB 5A	0.12	0.0001828	6.0	0.100	1.00	424.5	774.00	0.14
CB 42	0.24	0.0003688	6.0	0.100	1.00	856.3	774.00	0.29
CB 44	0.20	0.0003125	6.0	0.100	1.00	725.7	774.00	0.24
CB 44A	0.30	0.0004688	6.0	0.100	1.00	1088.6	774.00	0.36

The WQf sizing calculation selects the minimum size CDS/Cascade/StormCeptor model capable of operating at the computed WQf peak flowrate prior to bypassing. It assumes free discharge of the WQf through the unit and ignores the routing effect of any upstream storm drain piping. As with all hydrodynamic separators, there will be some impact to the Hydraulic Gradient of the corresponding drainage system, and evaluation of this impact should be considered in the design.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.93 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-4**

Unit Site Designation **DMH 2**

Cascade Treatment Capacity **2.00 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.02	0.60	10.2
0.04	9.6%	19.8%	0.03	1.20	9.6
0.06	9.4%	29.3%	0.05	1.80	9.4
0.08	7.7%	37.0%	0.07	2.40	7.7
0.10	8.6%	45.6%	0.08	3.00	8.6
0.12	6.3%	51.9%	0.10	3.60	6.3
0.14	4.7%	56.5%	0.12	4.20	4.7
0.16	4.6%	61.2%	0.13	4.80	4.6
0.18	3.5%	64.7%	0.15	5.40	3.5
0.20	4.3%	69.1%	0.17	6.00	4.3
0.25	8.0%	77.1%	0.21	7.51	8.0
0.30	5.6%	82.7%	0.25	9.01	5.6
0.35	4.4%	87.0%	0.29	10.51	4.4
0.40	2.5%	89.5%	0.34	12.01	2.5
0.45	2.5%	92.1%	0.38	13.51	2.5
0.50	1.4%	93.5%	0.42	15.01	1.4
0.75	5.0%	98.5%	0.63	22.52	4.6
1.00	1.0%	99.5%	0.84	30.02	0.8
1.50	0.0%	99.5%	1.26	45.04	0.0
2.00	0.0%	99.5%	1.68	60.05	0.0
3.00	0.5%	100.0%	2.13	76.08	0.2
					99.0
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					92.5%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **1.13 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-4**

Unit Site Designation **DMH 6A**

Cascade Treatment Capacity **2.00 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.02	0.73	10.2
0.04	9.6%	19.8%	0.04	1.45	9.6
0.06	9.4%	29.3%	0.06	2.18	9.4
0.08	7.7%	37.0%	0.08	2.90	7.7
0.10	8.6%	45.6%	0.10	3.63	8.6
0.12	6.3%	51.9%	0.12	4.36	6.3
0.14	4.7%	56.5%	0.14	5.08	4.7
0.16	4.6%	61.2%	0.16	5.81	4.6
0.18	3.5%	64.7%	0.18	6.53	3.5
0.20	4.3%	69.1%	0.20	7.26	4.3
0.25	8.0%	77.1%	0.25	9.07	8.0
0.30	5.6%	82.7%	0.30	10.89	5.6
0.35	4.4%	87.0%	0.36	12.70	4.4
0.40	2.5%	89.5%	0.41	14.52	2.5
0.45	2.5%	92.1%	0.46	16.33	2.4
0.50	1.4%	93.5%	0.51	18.15	1.3
0.75	5.0%	98.5%	0.76	27.22	4.4
1.00	1.0%	99.5%	1.02	36.29	0.8
1.50	0.0%	99.5%	1.52	54.44	0.0
2.00	0.0%	99.5%	2.03	72.58	0.0
3.00	0.5%	100.0%	2.13	76.08	0.1
					98.5
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.4%
Predicted Net Annual Load Removal Efficiency =					92.1%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.57 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **DMH 16**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.01	0.65	10.2
0.04	9.6%	19.8%	0.02	1.31	9.6
0.06	9.4%	29.3%	0.03	1.96	9.4
0.08	7.7%	37.0%	0.04	2.62	7.7
0.10	8.6%	45.6%	0.05	3.27	8.6
0.12	6.3%	51.9%	0.06	3.92	6.3
0.14	4.7%	56.5%	0.07	4.58	4.7
0.16	4.6%	61.2%	0.08	5.23	4.6
0.18	3.5%	64.7%	0.09	5.88	3.5
0.20	4.3%	69.1%	0.10	6.54	4.3
0.25	8.0%	77.1%	0.13	8.17	8.0
0.30	5.6%	82.7%	0.15	9.81	5.6
0.35	4.4%	87.0%	0.18	11.44	4.4
0.40	2.5%	89.5%	0.21	13.08	2.5
0.45	2.5%	92.1%	0.23	14.71	2.5
0.50	1.4%	93.5%	0.26	16.34	1.3
0.75	5.0%	98.5%	0.39	24.52	4.5
1.00	1.0%	99.5%	0.51	32.69	0.8
1.50	0.0%	99.5%	0.77	49.03	0.0
2.00	0.0%	99.5%	1.00	63.50	0.0
3.00	0.5%	100.0%	1.00	63.50	0.2
					98.8
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.4%
Predicted Net Annual Load Removal Efficiency =					92.4%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **1.22 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-4**

Unit Site Designation **DMH 18**

Cascade Treatment Capacity **2.00 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.02	0.79	10.2
0.04	9.6%	19.8%	0.04	1.57	9.6
0.06	9.4%	29.3%	0.07	2.36	9.4
0.08	7.7%	37.0%	0.09	3.15	7.7
0.10	8.6%	45.6%	0.11	3.93	8.6
0.12	6.3%	51.9%	0.13	4.72	6.3
0.14	4.7%	56.5%	0.15	5.51	4.7
0.16	4.6%	61.2%	0.18	6.30	4.6
0.18	3.5%	64.7%	0.20	7.08	3.5
0.20	4.3%	69.1%	0.22	7.87	4.3
0.25	8.0%	77.1%	0.28	9.84	8.0
0.30	5.6%	82.7%	0.33	11.80	5.6
0.35	4.4%	87.0%	0.39	13.77	4.3
0.40	2.5%	89.5%	0.44	15.74	2.5
0.45	2.5%	92.1%	0.50	17.71	2.4
0.50	1.4%	93.5%	0.55	19.67	1.3
0.75	5.0%	98.5%	0.83	29.51	4.2
1.00	1.0%	99.5%	1.10	39.35	0.8
1.50	0.0%	99.5%	1.65	59.02	0.0
2.00	0.0%	99.5%	2.13	76.08	0.0
3.00	0.5%	100.0%	2.13	76.08	0.1
					98.3
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.4%
Predicted Net Annual Load Removal Efficiency =					91.8%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.44 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **DMH 24**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.01	0.50	10.2
0.04	9.6%	19.8%	0.02	1.01	9.6
0.06	9.4%	29.3%	0.02	1.51	9.4
0.08	7.7%	37.0%	0.03	2.01	7.7
0.10	8.6%	45.6%	0.04	2.51	8.6
0.12	6.3%	51.9%	0.05	3.02	6.3
0.14	4.7%	56.5%	0.06	3.52	4.7
0.16	4.6%	61.2%	0.06	4.02	4.6
0.18	3.5%	64.7%	0.07	4.53	3.5
0.20	4.3%	69.1%	0.08	5.03	4.3
0.25	8.0%	77.1%	0.10	6.29	8.0
0.30	5.6%	82.7%	0.12	7.54	5.6
0.35	4.4%	87.0%	0.14	8.80	4.4
0.40	2.5%	89.5%	0.16	10.06	2.5
0.45	2.5%	92.1%	0.18	11.32	2.5
0.50	1.4%	93.5%	0.20	12.57	1.4
0.75	5.0%	98.5%	0.30	18.86	4.8
1.00	1.0%	99.5%	0.40	25.14	0.9
1.50	0.0%	99.5%	0.59	37.72	0.0
2.00	0.0%	99.5%	0.79	50.29	0.0
3.00	0.5%	100.0%	1.00	63.50	0.2
					99.3
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					92.9%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.83 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **DMH 27A**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.01	0.95	10.2
0.04	9.6%	19.8%	0.03	1.90	9.6
0.06	9.4%	29.3%	0.04	2.85	9.4
0.08	7.7%	37.0%	0.06	3.80	7.7
0.10	8.6%	45.6%	0.07	4.75	8.6
0.12	6.3%	51.9%	0.09	5.71	6.3
0.14	4.7%	56.5%	0.10	6.66	4.7
0.16	4.6%	61.2%	0.12	7.61	4.6
0.18	3.5%	64.7%	0.13	8.56	3.5
0.20	4.3%	69.1%	0.15	9.51	4.3
0.25	8.0%	77.1%	0.19	11.89	8.0
0.30	5.6%	82.7%	0.22	14.26	5.5
0.35	4.4%	87.0%	0.26	16.64	4.2
0.40	2.5%	89.5%	0.30	19.02	2.4
0.45	2.5%	92.1%	0.34	21.40	2.3
0.50	1.4%	93.5%	0.37	23.77	1.2
0.75	5.0%	98.5%	0.56	35.66	4.0
1.00	1.0%	99.5%	0.75	47.55	0.7
1.50	0.0%	99.5%	1.00	63.50	0.0
2.00	0.0%	99.5%	1.00	63.50	0.0
3.00	0.5%	100.0%	1.00	63.50	0.1
					97.5
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.3%
Predicted Net Annual Load Removal Efficiency =					91.0%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.82 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **DMH 29**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.01	0.94	10.2
0.04	9.6%	19.8%	0.03	1.87	9.6
0.06	9.4%	29.3%	0.04	2.81	9.4
0.08	7.7%	37.0%	0.06	3.75	7.7
0.10	8.6%	45.6%	0.07	4.69	8.6
0.12	6.3%	51.9%	0.09	5.62	6.3
0.14	4.7%	56.5%	0.10	6.56	4.7
0.16	4.6%	61.2%	0.12	7.50	4.6
0.18	3.5%	64.7%	0.13	8.43	3.5
0.20	4.3%	69.1%	0.15	9.37	4.3
0.25	8.0%	77.1%	0.18	11.72	8.0
0.30	5.6%	82.7%	0.22	14.06	5.5
0.35	4.4%	87.0%	0.26	16.40	4.2
0.40	2.5%	89.5%	0.30	18.74	2.4
0.45	2.5%	92.1%	0.33	21.09	2.3
0.50	1.4%	93.5%	0.37	23.43	1.2
0.75	5.0%	98.5%	0.55	35.15	4.0
1.00	1.0%	99.5%	0.74	46.86	0.7
1.50	0.0%	99.5%	1.00	63.50	0.0
2.00	0.0%	99.5%	1.00	63.50	0.0
3.00	0.5%	100.0%	1.00	63.50	0.1
					97.5
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.3%
Predicted Net Annual Load Removal Efficiency =					91.1%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.27 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **CB 5**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.00	0.31	10.2
0.04	9.6%	19.8%	0.01	0.61	9.6
0.06	9.4%	29.3%	0.01	0.92	9.4
0.08	7.7%	37.0%	0.02	1.23	7.7
0.10	8.6%	45.6%	0.02	1.53	8.6
0.12	6.3%	51.9%	0.03	1.84	6.3
0.14	4.7%	56.5%	0.03	2.14	4.7
0.16	4.6%	61.2%	0.04	2.45	4.6
0.18	3.5%	64.7%	0.04	2.76	3.5
0.20	4.3%	69.1%	0.05	3.06	4.3
0.25	8.0%	77.1%	0.06	3.83	8.0
0.30	5.6%	82.7%	0.07	4.59	5.6
0.35	4.4%	87.0%	0.08	5.36	4.4
0.40	2.5%	89.5%	0.10	6.13	2.5
0.45	2.5%	92.1%	0.11	6.89	2.5
0.50	1.4%	93.5%	0.12	7.66	1.4
0.75	5.0%	98.5%	0.18	11.49	5.0
1.00	1.0%	99.5%	0.24	15.32	1.0
1.50	0.0%	99.5%	0.36	22.97	0.0
2.00	0.0%	99.5%	0.48	30.63	0.0
3.00	0.5%	100.0%	0.72	45.95	0.3
					99.8
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					93.4%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.12 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **CB 5A**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.00	0.13	10.2
0.04	9.6%	19.8%	0.00	0.27	9.6
0.06	9.4%	29.3%	0.01	0.40	9.4
0.08	7.7%	37.0%	0.01	0.53	7.7
0.10	8.6%	45.6%	0.01	0.67	8.6
0.12	6.3%	51.9%	0.01	0.80	6.3
0.14	4.7%	56.5%	0.01	0.94	4.7
0.16	4.6%	61.2%	0.02	1.07	4.6
0.18	3.5%	64.7%	0.02	1.20	3.5
0.20	4.3%	69.1%	0.02	1.34	4.3
0.25	8.0%	77.1%	0.03	1.67	8.0
0.30	5.6%	82.7%	0.03	2.01	5.6
0.35	4.4%	87.0%	0.04	2.34	4.4
0.40	2.5%	89.5%	0.04	2.67	2.5
0.45	2.5%	92.1%	0.05	3.01	2.5
0.50	1.4%	93.5%	0.05	3.34	1.4
0.75	5.0%	98.5%	0.08	5.01	5.0
1.00	1.0%	99.5%	0.11	6.69	1.0
1.50	0.0%	99.5%	0.16	10.03	0.0
2.00	0.0%	99.5%	0.21	13.37	0.0
3.00	0.5%	100.0%	0.32	20.06	0.4
					100.0
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					93.5%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.24 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **CB 42**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.00	0.27	10.2
0.04	9.6%	19.8%	0.01	0.54	9.6
0.06	9.4%	29.3%	0.01	0.81	9.4
0.08	7.7%	37.0%	0.02	1.08	7.7
0.10	8.6%	45.6%	0.02	1.35	8.6
0.12	6.3%	51.9%	0.03	1.62	6.3
0.14	4.7%	56.5%	0.03	1.89	4.7
0.16	4.6%	61.2%	0.03	2.16	4.6
0.18	3.5%	64.7%	0.04	2.43	3.5
0.20	4.3%	69.1%	0.04	2.70	4.3
0.25	8.0%	77.1%	0.05	3.37	8.0
0.30	5.6%	82.7%	0.06	4.05	5.6
0.35	4.4%	87.0%	0.07	4.72	4.4
0.40	2.5%	89.5%	0.08	5.39	2.5
0.45	2.5%	92.1%	0.10	6.07	2.5
0.50	1.4%	93.5%	0.11	6.74	1.4
0.75	5.0%	98.5%	0.16	10.11	5.0
1.00	1.0%	99.5%	0.21	13.49	1.0
1.50	0.0%	99.5%	0.32	20.23	0.0
2.00	0.0%	99.5%	0.42	26.97	0.0
3.00	0.5%	100.0%	0.64	40.46	0.4
					99.9
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					93.4%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.20 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **CB 44**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.00	0.23	10.2
0.04	9.6%	19.8%	0.01	0.46	9.6
0.06	9.4%	29.3%	0.01	0.69	9.4
0.08	7.7%	37.0%	0.01	0.91	7.7
0.10	8.6%	45.6%	0.02	1.14	8.6
0.12	6.3%	51.9%	0.02	1.37	6.3
0.14	4.7%	56.5%	0.03	1.60	4.7
0.16	4.6%	61.2%	0.03	1.83	4.6
0.18	3.5%	64.7%	0.03	2.06	3.5
0.20	4.3%	69.1%	0.04	2.29	4.3
0.25	8.0%	77.1%	0.05	2.86	8.0
0.30	5.6%	82.7%	0.05	3.43	5.6
0.35	4.4%	87.0%	0.06	4.00	4.4
0.40	2.5%	89.5%	0.07	4.57	2.5
0.45	2.5%	92.1%	0.08	5.14	2.5
0.50	1.4%	93.5%	0.09	5.71	1.4
0.75	5.0%	98.5%	0.14	8.57	5.0
1.00	1.0%	99.5%	0.18	11.43	1.0
1.50	0.0%	99.5%	0.27	17.14	0.0
2.00	0.0%	99.5%	0.36	22.86	0.0
3.00	0.5%	100.0%	0.54	34.29	0.4
					99.9
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					93.4%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

**CASCADE ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION
BASED ON THE RATIONAL RAINFALL METHOD**

**ROCKY HILL MBTA COMMUNITY
AMESBURY, MA**

Area **0.30 ac**
Weighted C **0.90**
t_c **6 min**
Cascade Model **CS-3**

Unit Site Designation **CB 44A**

Cascade Treatment Capacity **1.01 cfs**

<u>Rainfall Intensity¹ (in/hr)</u>	<u>Percent Rainfall Volume¹</u>	<u>Cumulative Rainfall Volume</u>	<u>Treated Flowrate (cfs)</u>	<u>Hydraulic Loading Rate (gpm/ft²)</u>	<u>Incremental Removal (%)</u>
0.02	10.2%	10.2%	0.01	0.34	10.2
0.04	9.6%	19.8%	0.01	0.69	9.6
0.06	9.4%	29.3%	0.02	1.03	9.4
0.08	7.7%	37.0%	0.02	1.37	7.7
0.10	8.6%	45.6%	0.03	1.71	8.6
0.12	6.3%	51.9%	0.03	2.06	6.3
0.14	4.7%	56.5%	0.04	2.40	4.7
0.16	4.6%	61.2%	0.04	2.74	4.6
0.18	3.5%	64.7%	0.05	3.09	3.5
0.20	4.3%	69.1%	0.05	3.43	4.3
0.25	8.0%	77.1%	0.07	4.29	8.0
0.30	5.6%	82.7%	0.08	5.14	5.6
0.35	4.4%	87.0%	0.09	6.00	4.4
0.40	2.5%	89.5%	0.11	6.86	2.5
0.45	2.5%	92.1%	0.12	7.71	2.5
0.50	1.4%	93.5%	0.14	8.57	1.4
0.75	5.0%	98.5%	0.20	12.86	5.0
1.00	1.0%	99.5%	0.27	17.14	1.0
1.50	0.0%	99.5%	0.41	25.72	0.0
2.00	0.0%	99.5%	0.54	34.29	0.0
3.00	0.5%	100.0%	0.81	51.43	0.3
					99.8
Removal Efficiency Adjustment ² =					6.5%
Predicted % Annual Rainfall Treated =					93.5%
Predicted Net Annual Load Removal Efficiency =					93.3%

1 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA

2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

c. 25- Year Pipe Flow Calculation & Outlet Level Spreader 100-year

Velocity Calculations

Millenium Engineering Inc.
CLOSED DRAINAGE SYSTEM CALCULATIONS
25-YEAR FREQUENCY

Project: Rocky Hill
 Proj. #: 2016-031
 Date: 6-24-2026
 By: sbs

NORTH NEIGHBORHOOD

Notes: n= 0.013
 n= 0.010

Line		Length (ft)	Req. Cap. Qd (cfs)	Pipe (in)	Slope (ft/ft)	Flow Full		Design Vel. Vd (fps)	Comments	Q/Qf	Time in Pipe
From	To					Qf (cfs)	Vf (fps)				
DMH 35	DMH 34	85	1.48	12	0.010	3.56	4.53	3.7	HDPE	0.42	0.38
DMH 37	DMH 36	19	1.43	12	0.030	6.17	7.85	5.4	HDPE	0.23	0.06
DMH 31	DMH 34	150	3.00	12	0.010	3.54	4.51	4.5	HDPE	0.85	0.56
DMH 31	DMH 34	150	1.27	12	0.012	3.85	4.91	3.7	HDPE	0.33	0.67
DMH 34	INF CH 4	5	4.13	15	0.009	6.13	5.00	4.7	HDPE	0.67	0.02
DMH 40	INF CH 4B	5	9.33	18	0.010	10.51	5.95	6.0	HDPE	0.89	0.01
DMH 41	DMH 40	30	5.69	15	0.011	6.78	5.52	5.5	HDPE	0.84	0.09
DMH 42	DMH 41	74	3.14	12	0.010	3.56	4.53	4.6	HDPE	0.88	0.27
DMH 43	DMH 42	67	3.14	12	0.010	3.56	4.53	4.6	HDPE	0.88	0.24
DMH 44	DMH 40	89	3.17	12	0.010	3.56	4.53	4.6	HDPE	0.89	0.32
DMH 45	DMH 44	151	1.11	12	0.010	3.56	4.53	3.4	HDPE	0.31	0.74
DMH 55	INF. CH 6	91	0.88	12	0.024	5.52	7.03	4.3	HDPE	0.16	0.35
INF. CH 6	OUTLET	91	3.66	12	0.037	6.85	8.72	7.6	HDPE	0.53	0.20
DMH 47	INF. CH 5	26	3.35	12	0.020	5.04	6.41	6.0	HDPE	0.67	0.07
DMH 46	DMH 47	121	2.32	12	0.005	2.52	3.21	3.3	HDPE	0.92	0.62
INF. CH 5	OUTLET	95	3.32	12	0.024	5.52	7.03	6.3	HDPE	0.60	0.25
INF. CH 12	OUTLET	170	3.37	15	0.007	5.41	4.41	4.0	HDPE	0.62	0.70
DMH 52	INF. CH 12	46	3.95	15	0.012	7.08	5.77	5.1	HDPE	0.56	0.15
DMH 51	DMH 52	152	3.95	15	0.005	4.57	3.72	3.7	HDPE	0.86	0.68
DMH 50	DMH 51	30	3.95	15	0.005	4.57	3.72	3.7	HDPE	0.86	0.13
DMH 49	DMH 50	63	1.46	12	0.011	3.74	4.76	3.8	HDPE	0.39	0.28
INF. CH 7	OUTLET	62	7.71	15	0.040	12.92	10.53	9.5	HDPE	0.60	0.11
DMH 56	INF. CH 7	123	5.45	15	0.009	6.13	5.00	5.1	HDPE	0.89	0.41
DMH 59	DMH 56	139	3.55	15	0.005	4.57	3.72	3.6	HDPE	0.78	0.64
INF. CH 8	OUTLET	56	4.55	12	0.050	7.96	10.14	9.0	HDPE	0.57	0.10
DMH 57	INF. CH 8	140	4.58	15	0.006	5.01	4.08	4.2	HDPE	0.91	0.56
INF. CH 9	OUTLET	156	6.67	15	0.012	7.08	5.77	5.9	HDPE	0.94	0.44
DMH 61	INF. CH 9	252	4.36	15	0.005	4.57	3.72	3.8	HDPE	0.95	1.09
DMH 60	DMH 61	112	4.36	15	0.005	4.57	3.72	3.8	HDPE	0.95	0.49
INF. CH 10	DET BASIN 6	250	5.54	15	0.024	10.01	8.16	7.2	HDPE	0.55	0.58
DMH 66	INF. CH 10	23	5.58	15	0.008	5.92	4.83	5.0	HDPE	0.94	0.08
INF. CH 10	DET BASIN 6	250	5.54	12	0.020	5.04	6.41	6.9	HDPE	1.10	0.60
DMH 68	DMH 66	139	2.79	12	0.007	2.98	3.79	3.9	HDPE	0.94	0.59
INF. CH 11	DET BASIN 6	100	4.44	12	0.060	8.72	11.11	9.6	HDPE	0.51	0.17
DMH 70	INF. CH 11	5	3.04	12	0.020	5.04	6.41	5.8	HDPE	0.60	0.01
DMH 67	INF. CH 11	48	3.33	12	0.010	3.56	4.53	4.7	HDPE	0.93	0.17

Millenium Engineering Inc.
CLOSED DRAINAGE SYSTEM CALCULATIONS
25-YEAR FREQUENCY

Project: Rocky Hill
 Proj. #: 2016-031
 Date: 6-24-2026
 By: sbs

SOUTH NEIGHBORHOOD

Notes: n= 0.013
 n= 0.010

Line		Length (ft)	Req. Cap. Qd (cfs)	Pipe (in)	Slope (ft/ft)	Flow Full		Design Vel. Vd (fps)	Comments	Q/Qf	Time in Pipe
From	To					Qf (cfs)	Vf (fps)				
CB 1	DMH 1	28	0.45	12	0.005	2.62	3.33	2.1	HDPE	0.17	0.22
CB 2	DMH 1	19	0.45	12	0.005	2.62	3.33	2.1	HDPE	0.17	0.15
CB 3	WQS 1	101	0.53	12	0.010	3.54	4.51	2.7	HDPE	0.15	0.62
CB 4	WQS 1	86	1.27	12	0.012	3.85	4.91	3.7	HDPE	0.33	0.39
DMH 1	WQS 1	208	0.70	12	0.005	2.47	3.14	2.3	HDPE	0.28	1.52
CB 5 /CDS	INF CH 1C	10	1.70	12	0.030	6.17	7.85	5.7	HDPE	0.28	0.03
INF CH 1C	INF BASIN 1	30	4.68	15	0.020	9.14	7.45	6.4	HDPE	0.51	0.08
DMH 6	DMH 18 CDS	109	6.72	18	0.006	8.08	4.57	4.5	HDPE	0.83	0.40
DMH 5	DMH 6	105	5.40	18	0.005	7.44	4.21	4.0	HDPE	0.73	0.44
DMH 7	DMH 5	178	4.16	15	0.005	4.57	3.72	3.8	HDPE	0.91	0.78
DMH 9	DMH 7	53	2.83	15	0.005	4.57	3.72	3.4	HDPE	0.62	0.26
DMH 6	SUB 1C	130	6.72	18	0.008	9.11	5.15	4.9	HDPE	0.74	0.44
DMH 2 CDS	INF CH 1B	23	5.98	18	0.010	10.51	5.95	5.3	HDPE	0.57	0.07
DMH 8A	DMH 2 CDS	20	5.98	18	0.005	7.44	4.21	4.1	HDPE	0.80	0.08
DMH 8	DMH 8A	82	1.93	12	0.004	2.25	2.87	2.9	HDPE	0.86	0.48
DMH 11	DMH 8A	23	4.06	15	0.012	7.08	5.77	5.1	HDPE	0.57	0.07
DMH 12	DMH 11	110	1.91	12	0.005	2.52	3.21	3.1	HDPE	0.76	0.59
DMH 13	DMH 12	98	1.91	12	0.005	2.52	3.21	3.1	HDPE	0.76	0.53
DMH 17	DMH 18 CDS	97	8.02	18	0.006	8.14	4.61	4.8	HDPE	0.98	0.34
DMH 19	DMH 17	104	6.34	18	0.010	10.51	5.95	5.4	HDPE	0.60	0.32
DMH 22	DMH 19	53	3.40	12	0.014	4.21	5.37	5.3	HDPE	0.81	0.17
DMH 20	DMH 19	36	2.94	15	0.005	4.57	3.72	3.4	HDPE	0.64	0.17
DMH 21	DMH 20	90	1.66	12	0.010	3.56	4.53	3.8	HDPE	0.47	0.39
DMH 29 CDS	INF CH 3B	107	4.21	15	0.008	5.78	4.71	4.5	HDPE	0.73	0.40
DMH 30	DMH 29 CDS	76	4.21	15	0.005	4.57	3.72	3.8	HDPE	0.92	0.33
DMH 27	DMH 27A CDS	18	3.56	12	0.013	4.06	5.17	5.2	HDPE	0.88	0.06
DMH 28	DMH 27	102	1.49	12	0.005	2.52	3.21	2.9	HDPE	0.59	0.59
DMH 26	DMH 27	87	2.11	12	0.005	2.52	3.21	3.2	HDPE	0.84	0.45
DMH 25	DMH 25A CDS	90	2.78	15	0.004	4.09	3.33	3.1	HDPE	0.68	0.48
DMH 25A CDS	INF CH 3D	30	2.78	15	0.005	4.57	3.72	3.4	HDPE	0.61	0.15
CB32	DMH25	23	1.37	12	0.009	3.38	4.30	3.5	HDPE	0.41	0.11
CB34	DMH25	28	0.90	12	0.007	2.98	3.79	2.8	HDPE	0.30	0.17
CB35	DMH25	24	0.51	12	0.008	3.19	4.06	2.5	HDPE	0.16	0.16
CB44 CDS	INF CH 3B	8	1.28	12	0.010	3.56	4.53	3.5	HDPE	0.36	0.04
CB 42 CDS	INF CH 3A	5	1.50	12	0.010	3.56	4.53	3.7	HDPE	0.42	0.02
CB A	DMH A CDS	63	0.89	12	0.006	2.85	3.63	2.7	HDPE	0.31	0.39
DMH 16 CDS	INF BS 4	36	3.70	15	0.005	4.57	3.72	3.7	HDPE	0.81	0.16
DMH 15	DMH 16 CDS	110	3.70	15	0.005	4.57	3.72	3.7	HDPE	0.81	0.50
DMH A	DMH 15	98	0.89	12	0.005	2.52	3.21	2.5	HDPE	0.35	0.66
CB 20	DMH 15	24	0.57	12	0.008	3.19	4.06	2.6	HDPE	0.18	0.16
CB21	DMH15	25	2.24	12	0.008	3.19	4.06	3.8	HDPE	0.70	0.11
Emergency Culvert		40	1.45	12	0.005	2.52	3.21	2.9	HDPE	0.58	0.23

PIPE OUTLET AND LEVEL SPREADER CALCULATIONS
ROCKY HILL MBTA COMMUNITY
ELM STREET - AMESBURY

STEPHEN SAWYER P.E.
MILLENIUM ENGINEERING
JUNE 29, 2028

The following information is provided documenting the stone at pipe ends and level spreader velocities. The project specifies MasDOT stone per pipe ends with gradation as follows for all pipe outlets;

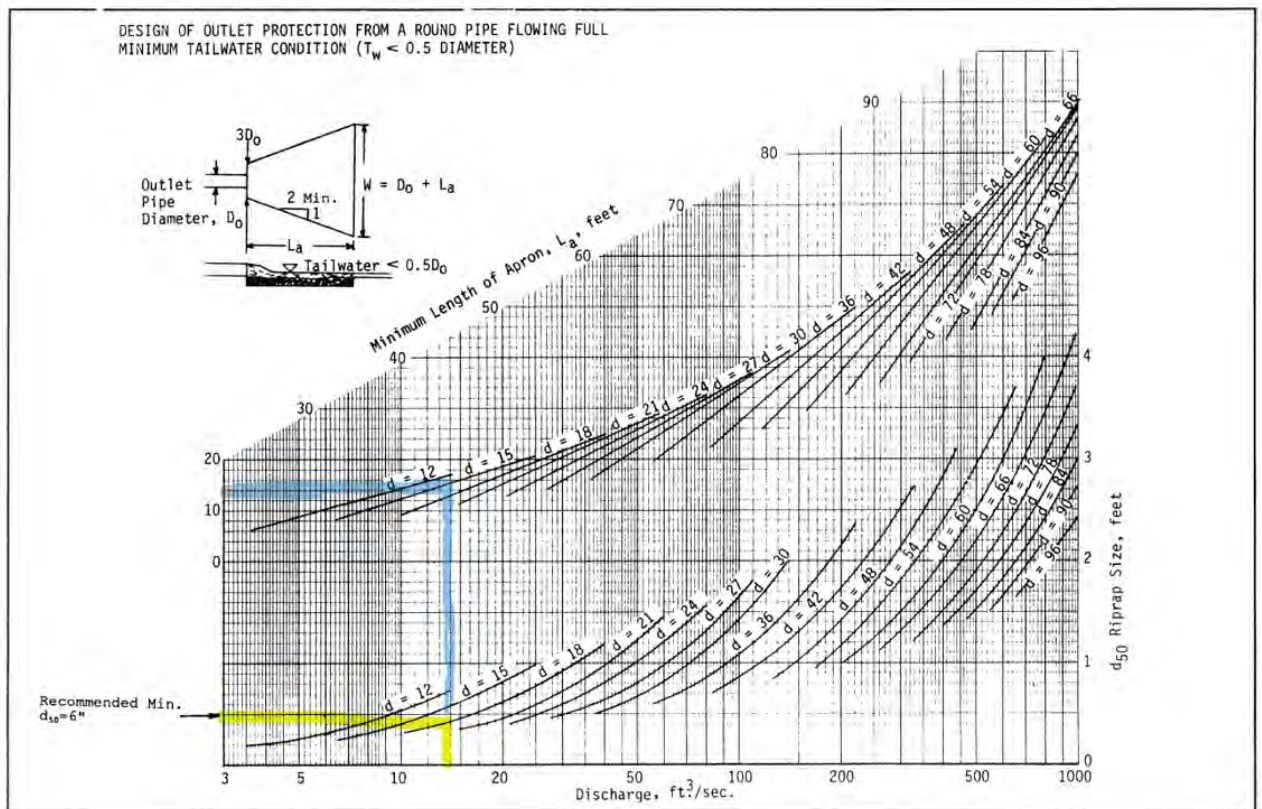
M2.02.3: Stone for Pipe Ends Stone for pipe ends shall be sound, durable rock which is angular in shape. Rounded stones, boulders, sandstone or similar stone or relatively thin slabs will not be acceptable. Each stone shall weigh not less than 50 lb not more than 125 lb and at least 75% of the volume shall consist of stones weighing not less than 75 lb each. The remainder of the stones shall be so graded that when placed with the larger stones the entire mass will be compact.

See below for calculation of the most extreme outlet for 18" outlet pipes with Stone sizing required:

18" outlet pipe from Sub Basin 4B to Detention Basin 5 = 13.75 CFS

Source: USDA-SCS

Plate 3.18-3



1992

3.18

The rip-rip requires D50 size of 6" with that stone weight at under 35 lbs. The specified minimum stone weigh is 50 lbs.

Also, the 18ft long apron length exceeds the 12 ft. minimum length noted on the nomograph. All other 18" outlet pipe flows are less the 13.75 CFS so provided stone is adequate.

The 12" & 15" outlet pipes specify the same stone size with stone size exceeding the required 6" minimum stone size,

Level Spreader Maximum Velocity Flow

Details specify 4"-6" stone along the berm of the level spreader. Note the velocities for the 100-year event are all under 2 feet per second over the stone berm. The stone size will not be dislodged with the very low velocity water flow.

L.S. Inf. Basin 4 Outlet- Max Velocity=1.32 fps

Volume	Invert	Avail.Storage	Storage Description														
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)														
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)														
51.50	70	0	0														
53.00	254	243	243														
Device	Routing	Invert	Outlet Devices														
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular W														
			Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00				
			2.50	3.00													
			Coef. (English)	2.69	2.72	2.75	2.85	2.98	3.08	3.20	3.28	3.31					
			3.30	3.31	3.32												

Primary OutFlow Max=11.19 cfs @ 12.14 hrs HW=52.24' (Free Discharge)
↑1=Broad-Crested Rectangular Weir (Weir Controls 11.19 cfs @ 1.32 fps)

L.S. Det. Basin 5 Outlet- Max Velocity=1.19 fps

Volume	Invert	Avail.Storage	Storage Description												
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)												
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)												
51.50	70	0	0												
53.00	254	243	243												
Device	Routing	Invert	Outlet Devices												
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular W												
			Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00		
			2.50	3.00											
			Coef. (English)	2.69	2.72	2.75	2.85	2.98	3.08	3.20	3.28	3.31			
			3.30	3.31	3.32										
Primary OutFlow Max=8.37 cfs @ 12.25 hrs HW=52.20' (Free Discharge)															
↑1=Broad-Crested Rectangular Weir (Weir Controls 8.37 cfs @ 1.19 fps)															

L.S. Inf. Basin 5 Outlet- Max Velocity=0.98 fps

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243
Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 'l' SideZ x 1.0' breadth Broad-Crested Rectangular W Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
Primary OutFlow Max=4.62 cfs @ 12.11 hrs HW=57.13' (Free Discharge)			
↑1=Broad-Crested Rectangular Weir (Weir Controls 4.62 cfs @ 0.98 fps)			

L.S. Inf. Basin 7,8,9 Outlet- Max Velocity=1.80 fps

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243
Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 'l' SideZ x 1.0' breadth Broad-Crested Rectangular W Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
Primary OutFlow Max=28.22 cfs @ 12.10 hrs HW=57.44' (Free Discharge)			
↑1=Broad-Crested Rectangular Weir (Weir Controls 28.22 cfs @ 1.80 fps)			

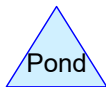
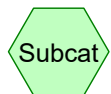
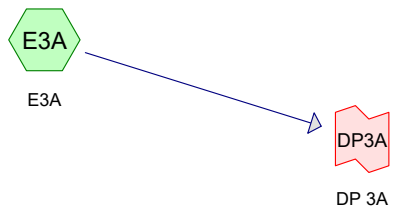
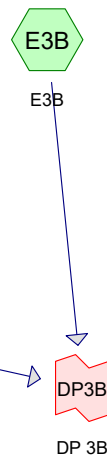
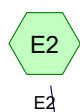
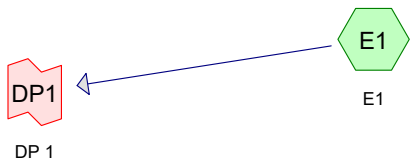
L.S. Det. Basin 6 Outlet- Max Velocity=1.27 fps

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	70	0	0
52.50	254	243	243
Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 'l' SideZ x 1.0' breadth Broad-Crested Rectangular W Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
Primary OutFlow Max=10.00 cfs @ 12.20 hrs HW=52.22' (Free Discharge)			
↑1=Broad-Crested Rectangular Weir (Weir Controls 10.00 cfs @ 1.27 fps)			

L.S. Inf. Basin 12 Outlet- Max Velocity=1.05 fps

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243
Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 'Z x 1.0' breadth Broad-Crested Rectangular W
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00
			Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31
			3.30 3.31 3.32
Primary OutFlow Max=5.64 cfs @ 12.09 hrs HW=57.15' (Free Discharge)			
↑ 1=Broad-Crested Rectangular Weir (Weir Controls 5.64 cfs @ 1.05 fps)			

d. Existing Conditions HydroCAD Report



RH Exist 8-11-25

Prepared by Millennium Engineering, Inc

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Type III 24-hr 2-Year Rainfall=3.15"

Printed 7/8/2026

Page 2

Summary for Subcatchment E1: E1

Runoff = 0.13 cfs @ 14.73 hrs, Volume= 0.061 af, Depth> 0.06"
 Routed to Link DP1 : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
139,246	74	>75% Grass cover, Good, HSG C
52,270	70	Woods, Good, HSG C
125,150	39	>75% Grass cover, Good, HSG A
208,131	30	Woods, Good, HSG A
524,797	48	Weighted Average
524,797		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	50	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
2.6	188	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.3	238	Total			

Summary for Subcatchment E2: E2

Runoff = 3.45 cfs @ 12.23 hrs, Volume= 0.323 af, Depth> 0.81"
 Routed to Link DP2 : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
113,380	74	>75% Grass cover, Good, HSG C
94,558	70	Woods, Good, HSG C
207,938	72	Weighted Average
207,938		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.0	147	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.2	307	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.9	504	Total			

Summary for Subcatchment E3A: E3A

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
Routed to Link DP3A : DP 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
309,786	30	Woods, Good, HSG A
4,538	96	Gravel surface, HSG A
4,447	98	Unconnected roofs, HSG A
149	98	Paved parking, HSG A
170,144	39	>75% Grass cover, Good, HSG A
489,064	34	Weighted Average
484,468		99.06% Pervious Area
4,596		0.94% Impervious Area
4,447		96.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
8.1	344	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.6	394	Total			

Summary for Subcatchment E3B: E3B

Runoff = 1.45 cfs @ 12.35 hrs, Volume= 0.228 af, Depth> 0.25"
Routed to Link DP3B : DP 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
194,048	74	>75% Grass cover, Good, HSG C
98,953	72	Woods/grass comb., Good, HSG C
157,270	30	Woods, Good, HSG A
28,910	39	>75% Grass cover, Good, HSG A
479,181	57	Weighted Average
479,181		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.0400	0.22		Sheet Flow, Range n= 0.130 P2= 3.10"
5.8	300	0.0300	0.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.7	350	Total			

Summary for Link DP1: DP 1

Inflow Area = 12.048 ac, 0.00% Impervious, Inflow Depth > 0.06" for 2-Year event
Inflow = 0.13 cfs @ 14.73 hrs, Volume= 0.061 af
Primary = 0.13 cfs @ 14.73 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP2: DP 2

Inflow Area = 4.774 ac, 0.00% Impervious, Inflow Depth > 0.81" for 2-Year event
Inflow = 3.45 cfs @ 12.23 hrs, Volume= 0.323 af
Primary = 3.45 cfs @ 12.23 hrs, Volume= 0.323 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP3B : DP 3B

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3A: DP 3A

Inflow Area = 11.227 ac, 0.94% Impervious, Inflow Depth = 0.00" for 2-Year event
Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3B: DP 3B

Inflow Area = 15.774 ac, 0.00% Impervious, Inflow Depth > 0.42" for 2-Year event
Inflow = 4.77 cfs @ 12.25 hrs, Volume= 0.551 af
Primary = 4.77 cfs @ 12.25 hrs, Volume= 0.551 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Subcatchment E1: E1

Runoff = 3.11 cfs @ 12.32 hrs, Volume= 0.452 af, Depth> 0.45"
 Routed to Link DP1 : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
139,246	74	>75% Grass cover, Good, HSG C
52,270	70	Woods, Good, HSG C
125,150	39	>75% Grass cover, Good, HSG A
208,131	30	Woods, Good, HSG A
524,797	48	Weighted Average
524,797		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	50	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
2.6	188	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.3	238	Total			

Summary for Subcatchment E2: E2

Runoff = 8.60 cfs @ 12.21 hrs, Volume= 0.756 af, Depth> 1.90"
 Routed to Link DP2 : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
113,380	74	>75% Grass cover, Good, HSG C
94,558	70	Woods, Good, HSG C
207,938	72	Weighted Average
207,938		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.0	147	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.2	307	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.9	504	Total			

Summary for Subcatchment E3A: E3A

Runoff = 0.06 cfs @ 16.99 hrs, Volume= 0.024 af, Depth> 0.03"
Routed to Link DP3A : DP 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
309,786	30	Woods, Good, HSG A
4,538	96	Gravel surface, HSG A
4,447	98	Unconnected roofs, HSG A
149	98	Paved parking, HSG A
170,144	39	>75% Grass cover, Good, HSG A
489,064	34	Weighted Average
484,468		99.06% Pervious Area
4,596		0.94% Impervious Area
4,447		96.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
8.1	344	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.6	394	Total			

Summary for Subcatchment E3B: E3B

Runoff = 9.40 cfs @ 12.16 hrs, Volume= 0.830 af, Depth> 0.91"
Routed to Link DP3B : DP 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
194,048	74	>75% Grass cover, Good, HSG C
98,953	72	Woods/grass comb., Good, HSG C
157,270	30	Woods, Good, HSG A
28,910	39	>75% Grass cover, Good, HSG A
479,181	57	Weighted Average
479,181		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.0400	0.22		Sheet Flow, Range n= 0.130 P2= 3.10"
5.8	300	0.0300	0.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.7	350	Total			

Summary for Link DP1: DP 1

Inflow Area = 12.048 ac, 0.00% Impervious, Inflow Depth > 0.45" for 10-Year event
Inflow = 3.11 cfs @ 12.32 hrs, Volume= 0.452 af
Primary = 3.11 cfs @ 12.32 hrs, Volume= 0.452 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP2: DP 2

Inflow Area = 4.774 ac, 0.00% Impervious, Inflow Depth > 1.90" for 10-Year event
Inflow = 8.60 cfs @ 12.21 hrs, Volume= 0.756 af
Primary = 8.60 cfs @ 12.21 hrs, Volume= 0.756 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP3B : DP 3B

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3A: DP 3A

Inflow Area = 11.227 ac, 0.94% Impervious, Inflow Depth > 0.03" for 10-Year event
Inflow = 0.06 cfs @ 16.99 hrs, Volume= 0.024 af
Primary = 0.06 cfs @ 16.99 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3B: DP 3B

Inflow Area = 15.774 ac, 0.00% Impervious, Inflow Depth > 1.21" for 10-Year event
Inflow = 17.48 cfs @ 12.19 hrs, Volume= 1.587 af
Primary = 17.48 cfs @ 12.19 hrs, Volume= 1.587 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Subcatchment E1: E1

Runoff = 9.32 cfs @ 12.20 hrs, Volume= 0.953 af, Depth> 0.95"
Routed to Link DP1 : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
139,246	74	>75% Grass cover, Good, HSG C
52,270	70	Woods, Good, HSG C
125,150	39	>75% Grass cover, Good, HSG A
208,131	30	Woods, Good, HSG A
524,797	48	Weighted Average
524,797		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	50	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
2.6	188	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.3	238	Total			

Summary for Subcatchment E2: E2

Runoff = 13.18 cfs @ 12.21 hrs, Volume= 1.151 af, Depth> 2.89"
Routed to Link DP2 : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
113,380	74	>75% Grass cover, Good, HSG C
94,558	70	Woods, Good, HSG C
207,938	72	Weighted Average
207,938		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.0	147	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.2	307	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.9	504	Total			

Summary for Subcatchment E3A: E3A

Runoff = 0.39 cfs @ 13.03 hrs, Volume= 0.173 af, Depth> 0.18"
Routed to Link DP3A : DP 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
309,786	30	Woods, Good, HSG A
4,538	96	Gravel surface, HSG A
4,447	98	Unconnected roofs, HSG A
149	98	Paved parking, HSG A
170,144	39	>75% Grass cover, Good, HSG A
489,064	34	Weighted Average
484,468		99.06% Pervious Area
4,596		0.94% Impervious Area
4,447		96.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
8.1	344	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.6	394	Total			

Summary for Subcatchment E3B: E3B

Runoff = 18.33 cfs @ 12.15 hrs, Volume= 1.473 af, Depth> 1.61"
Routed to Link DP3B : DP 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
194,048	74	>75% Grass cover, Good, HSG C
98,953	72	Woods/grass comb., Good, HSG C
157,270	30	Woods, Good, HSG A
28,910	39	>75% Grass cover, Good, HSG A
479,181	57	Weighted Average
479,181		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.0400	0.22		Sheet Flow, Range n= 0.130 P2= 3.10"
5.8	300	0.0300	0.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.7	350	Total			

Summary for Link DP1: DP 1

Inflow Area = 12.048 ac, 0.00% Impervious, Inflow Depth > 0.95" for 25-Year event
Inflow = 9.32 cfs @ 12.20 hrs, Volume= 0.953 af
Primary = 9.32 cfs @ 12.20 hrs, Volume= 0.953 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP2: DP 2

Inflow Area = 4.774 ac, 0.00% Impervious, Inflow Depth > 2.89" for 25-Year event
Inflow = 13.18 cfs @ 12.21 hrs, Volume= 1.151 af
Primary = 13.18 cfs @ 12.21 hrs, Volume= 1.151 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP3B : DP 3B

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3A: DP 3A

Inflow Area = 11.227 ac, 0.94% Impervious, Inflow Depth > 0.18" for 25-Year event
Inflow = 0.39 cfs @ 13.03 hrs, Volume= 0.173 af
Primary = 0.39 cfs @ 13.03 hrs, Volume= 0.173 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3B: DP 3B

Inflow Area = 15.774 ac, 0.00% Impervious, Inflow Depth > 2.00" for 25-Year event
Inflow = 30.77 cfs @ 12.17 hrs, Volume= 2.624 af
Primary = 30.77 cfs @ 12.17 hrs, Volume= 2.624 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Type III 24-hr 100-Year Rainfall=8.94"

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Summary for Subcatchment E1: E1

Runoff = 28.17 cfs @ 12.17 hrs, Volume= 2.369 af, Depth> 2.36"
 Routed to Link DP1 : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
139,246	74	>75% Grass cover, Good, HSG C
52,270	70	Woods, Good, HSG C
125,150	39	>75% Grass cover, Good, HSG A
208,131	30	Woods, Good, HSG A
524,797	48	Weighted Average
524,797		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	50	0.0500	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
2.6	188	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.3	238	Total			

Summary for Subcatchment E2: E2

Runoff = 23.34 cfs @ 12.21 hrs, Volume= 2.054 af, Depth> 5.16"
 Routed to Link DP2 : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
113,380	74	>75% Grass cover, Good, HSG C
94,558	70	Woods, Good, HSG C
207,938	72	Weighted Average
207,938		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.0	147	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.2	307	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
14.9	504	Total			

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Type III 24-hr 100-Year Rainfall=8.94"

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Summary for Subcatchment E3A: E3A

Runoff = 5.40 cfs @ 12.46 hrs, Volume= 0.837 af, Depth> 0.89"
 Routed to Link DP3A : DP 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
309,786	30	Woods, Good, HSG A
4,538	96	Gravel surface, HSG A
4,447	98	Unconnected roofs, HSG A
149	98	Paved parking, HSG A
170,144	39	>75% Grass cover, Good, HSG A
489,064	34	Weighted Average
484,468		99.06% Pervious Area
4,596		0.94% Impervious Area
4,447		96.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
8.1	344	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.6	394	Total			

Summary for Subcatchment E3B: E3B

Runoff = 40.67 cfs @ 12.15 hrs, Volume= 3.110 af, Depth> 3.39"
 Routed to Link DP3B : DP 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
194,048	74	>75% Grass cover, Good, HSG C
98,953	72	Woods/grass comb., Good, HSG C
157,270	30	Woods, Good, HSG A
28,910	39	>75% Grass cover, Good, HSG A
479,181	57	Weighted Average
479,181		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.0400	0.22		Sheet Flow, Range n= 0.130 P2= 3.10"
5.8	300	0.0300	0.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.7	350	Total			

Summary for Link DP1: DP 1

Inflow Area = 12.048 ac, 0.00% Impervious, Inflow Depth > 2.36" for 100-Year event
Inflow = 28.17 cfs @ 12.17 hrs, Volume= 2.369 af
Primary = 28.17 cfs @ 12.17 hrs, Volume= 2.369 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP2: DP 2

Inflow Area = 4.774 ac, 0.00% Impervious, Inflow Depth > 5.16" for 100-Year event
Inflow = 23.34 cfs @ 12.21 hrs, Volume= 2.054 af
Primary = 23.34 cfs @ 12.21 hrs, Volume= 2.054 af, Atten= 0%, Lag= 0.0 min
Routed to Link DP3B : DP 3B

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3A: DP 3A

Inflow Area = 11.227 ac, 0.94% Impervious, Inflow Depth > 0.89" for 100-Year event
Inflow = 5.40 cfs @ 12.46 hrs, Volume= 0.837 af
Primary = 5.40 cfs @ 12.46 hrs, Volume= 0.837 af, Atten= 0%, Lag= 0.0 min

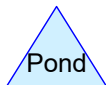
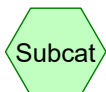
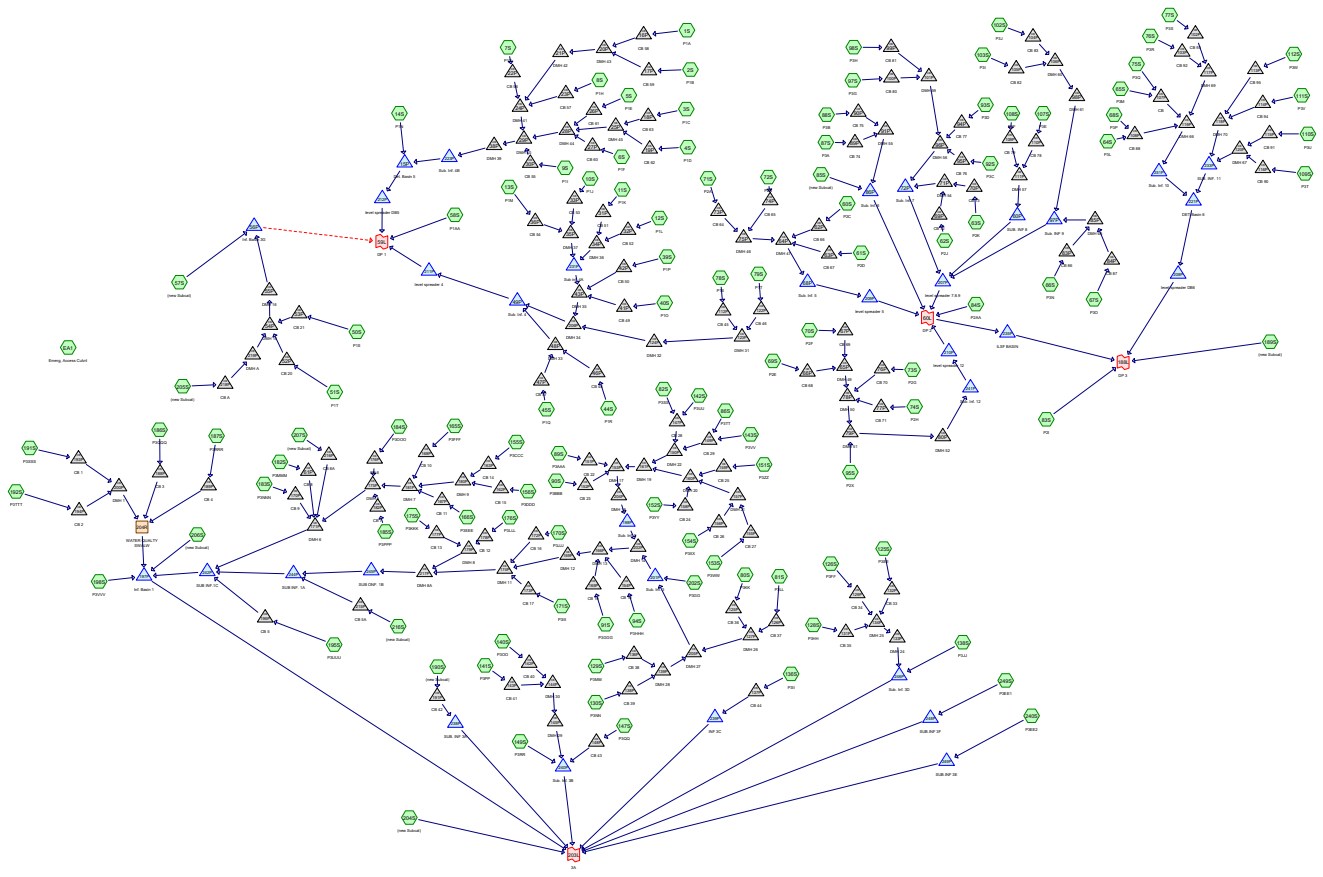
Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link DP3B: DP 3B

Inflow Area = 15.774 ac, 0.00% Impervious, Inflow Depth > 3.93" for 100-Year event
Inflow = 62.52 cfs @ 12.16 hrs, Volume= 5.164 af
Primary = 62.52 cfs @ 12.16 hrs, Volume= 5.164 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

e. Proposed Conditions HydroCAD Report



Routing Diagram for RH Post 6-29-26
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Summary for Subcatchment 1S: P1A

Runoff = 0.51 cfs @ 12.09 hrs, Volume= 0.038 af, Depth> 2.64"
Routed to Pond 16P : CB 58

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
254	74	>75% Grass cover, Good, HSG C
1,384	98	Unconnected roofs, HSG C
5,863	98	Paved parking, HSG C
7,501	97	Weighted Average
254		3.39% Pervious Area
7,247		96.61% Impervious Area
1,384		19.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: P1B

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 0.069 af, Depth> 2.17"
Routed to Pond 17P : CB 59

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,226	98	Unconnected roofs, HSG C
4,280	74	>75% Grass cover, Good, HSG C
7,078	98	Paved parking, HSG C
16,584	92	Weighted Average
4,280		25.81% Pervious Area
12,304		74.19% Impervious Area
5,226		42.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: P1C

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 1.91"
Routed to Pond 18P : CB 63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

RH Post 6-29-26

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
1,616	98	Unconnected roofs, HSG C
2,173	74	>75% Grass cover, Good, HSG C
2,298	98	Paved parking, HSG C
6,087	89	Weighted Average
2,173		35.70% Pervious Area
3,914		64.30% Impervious Area
1,616		41.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 4S: P1D

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af, Depth> 2.36"
 Routed to Pond 19P : CB 62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
512	74	>75% Grass cover, Good, HSG C
2,255	98	Paved parking, HSG C
2,767	94	Weighted Average
512		18.50% Pervious Area
2,255		81.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 5S: P1E

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.044 af, Depth> 1.99"
 Routed to Pond 26P : CB 61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,900	74	>75% Grass cover, Good, HSG C
3,976	98	Unconnected roofs, HSG C
3,662	98	Paved parking, HSG C
11,538	90	Weighted Average
3,900		33.80% Pervious Area
7,638		66.20% Impervious Area
3,976		52.06% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: P1F

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 2.08"
Routed to Pond 27P : CB 60

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,378	74	>75% Grass cover, Good, HSG C
429	98	Unconnected roofs, HSG C
3,010	98	Paved parking, HSG C
4,817	91	Weighted Average
1,378		28.61% Pervious Area
3,439		71.39% Impervious Area
429		12.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: P1G

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af, Depth> 2.73"
Routed to Pond 22P : CB 56

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,511	98	Paved parking, HSG C
5,511		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 8S: P1H

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 0.062 af, Depth> 2.36"
Routed to Pond 23P : CB 57

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,554	74	>75% Grass cover, Good, HSG C
5,795	98	Unconnected roofs, HSG C
5,364	98	Paved parking, HSG C
13,713	94	Weighted Average
2,554		18.62% Pervious Area
11,159		81.38% Impervious Area
5,795		51.93% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: P1I

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 0.016 af, Depth> 2.26"
Routed to Pond 30P : CB 55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
780	74	>75% Grass cover, Good, HSG C
2,836	98	Paved parking, HSG C
3,616	93	Weighted Average
780		21.57% Pervious Area
2,836		78.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 10S: P1J

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"
Routed to Pond 33P : CB 53

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,937	98	Paved parking, HSG C
1,937		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 11S: P1K

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.64"
Routed to Pond 31P : CB 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
61	74	>75% Grass cover, Good, HSG C
354	98	Unconnected roofs, HSG C
1,521	98	Paved parking, HSG C
1,936	97	Weighted Average
61		3.15% Pervious Area
1,875		96.85% Impervious Area
354		18.88% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 12S: P1L

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 2.26"
Routed to Pond 32P : CB 52

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,077	74	>75% Grass cover, Good, HSG C
2,390	98	Unconnected roofs, HSG C
5,354	98	Paved parking, HSG C
9,821	93	Weighted Average
2,077		21.15% Pervious Area
7,744		78.85% Impervious Area
2,390		30.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: P1M

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 0.044 af, Depth> 2.64"
Routed to Pond 36P : CB 54

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
476	74	>75% Grass cover, Good, HSG C
569	98	Unconnected roofs, HSG C
7,654	98	Paved parking, HSG C
8,699	97	Weighted Average
476		5.47% Pervious Area
8,223		94.53% Impervious Area
569		6.92% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: P1N

Runoff = 0.37 cfs @ 12.10 hrs, Volume= 0.026 af, Depth> 0.92"
 Routed to Pond 15P : Det. Basin 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
586	98		Unconnected roofs, HSG C
14,279	74		>75% Grass cover, Good, HSG C
14,865	75	74	Weighted Average, UI Adjusted
14,279			96.06% Pervious Area
586			3.94% Impervious Area
586			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: P1P

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.030 af, Depth> 1.99"
 Routed to Pond 42P : CB 50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,926	98	Unconnected roofs, HSG C
2,623	74	>75% Grass cover, Good, HSG C
3,390	98	Paved parking, HSG C
7,939	90	Weighted Average
2,623		33.04% Pervious Area
5,316		66.96% Impervious Area
1,926		36.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: P1O

Runoff = 0.07 cfs @ 12.09 hrs, Volume= 0.005 af, Depth> 2.73"
Routed to Pond 41P : CB 49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
978	98	Paved parking, HSG C
978		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 44S: P1R

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 1.46"
Routed to Pond 46P : CB 48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
704	98	Unconnected pavement, HSG C
1,196	74	>75% Grass cover, Good, HSG C
955	98	Paved parking, HSG C
2,884	98	Unconnected roofs, HSG A
3,316	39	>75% Grass cover, Good, HSG A
6,279	98	Paved parking, HSG A
15,334	83	Weighted Average
4,512		29.42% Pervious Area
10,822		70.58% Impervious Area
3,588		33.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 45S: P1Q

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 2.64"
Routed to Pond 47P : CB 47

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Type III 24-hr 2-Year Rainfall=3.15"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
49	74	>75% Grass cover, Good, HSG C
49	98	Unconnected roofs, HSG C
1,120	98	Paved parking, HSG C
80	39	>75% Grass cover, Good, HSG A
442	98	Unconnected roofs, HSG A
3,507	98	Paved parking, HSG A
5,247	97	Weighted Average
129		2.46% Pervious Area
5,118		97.54% Impervious Area
491		9.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 50S: P1S

Runoff = 0.73 cfs @ 12.10 hrs, Volume= 0.050 af, Depth> 1.14"
 Routed to Pond 53P : CB 21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,743	98	Unconnected roofs, HSG A
7,903	39	>75% Grass cover, Good, HSG A
8,226	98	Paved parking, HSG A
22,872	78	Weighted Average
7,903		34.55% Pervious Area
14,969		65.45% Impervious Area
6,743		45.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 51S: P1T

Runoff = 0.04 cfs @ 12.32 hrs, Volume= 0.006 af, Depth> 0.22"
 Routed to Pond 52P : CB 20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
9,878	39	>75% Grass cover, Good, HSG A
4,085	98	Paved parking, HSG A
13,963	56	Weighted Average
9,878		70.74% Pervious Area
4,085		29.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 57S: (new Subcat)

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond 56P : Inf. Basin 3G

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
1,317	98		Unconnected roofs, HSG A
4,111	30		Woods, Good, HSG A
18,083	39		>75% Grass cover, Good, HSG A
23,511	41	39	Weighted Average, UI Adjusted
22,194			94.40% Pervious Area
1,317			5.60% Impervious Area
1,317			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow,
					Woods: Light underbrush n= 0.400 P2= 3.10"
0.5	37	0.0300	1.21		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
13.0	87	Total			

Summary for Subcatchment 58S: P1AA

Runoff = 0.02 cfs @ 15.68 hrs, Volume= 0.010 af, Depth> 0.02"
 Routed to Link 59L : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Adj	Description
1,776	98		Unconnected roofs, HSG C
20,134	70		Woods, Good, HSG C
38,005	74		>75% Grass cover, Good, HSG C
3,034	98		Unconnected roofs, HSG A
* 12,179	39		Pervious Pavement
84,195	30		Woods, Good, HSG A
57,506	39		>75% Grass cover, Good, HSG A
766	98		Unconnected pavement, HSG A
217,595	46	45	Weighted Average, UI Adjusted
212,019			97.44% Pervious Area
5,576			2.56% Impervious Area
5,576			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
1.9	80	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.4	130	Total			

Summary for Subcatchment 60S: P2C

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 2.17"
Routed to Pond 62P : CB 66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,086	98	Unconnected roofs, HSG C
1,688	74	>75% Grass cover, Good, HSG C
2,712	98	Paved parking, HSG C
6,486	92	Weighted Average
1,688		26.03% Pervious Area
4,798		73.97% Impervious Area
2,086		43.48% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 61S: P2D

Runoff = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Depth> 2.45"
Routed to Pond 63P : CB 67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
190	74	>75% Grass cover, Good, HSG C
1,274	98	Paved parking, HSG C
1,464	95	Weighted Average
190		12.98% Pervious Area
1,274		87.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 62S: P2J

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 2.08"
Routed to Pond 69P : CB 72

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,207	98	Unconnected roofs, HSG C
2,897	74	>75% Grass cover, Good, HSG C
4,571	98	Paved parking, HSG C
10,675	91	Weighted Average
2,897		27.14% Pervious Area
7,778		72.86% Impervious Area
3,207		41.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 63S: P2K

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.028 af, Depth> 2.17"
Routed to Pond 70P : CB 73

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,542	74	>75% Grass cover, Good, HSG C
1,151	98	Unconnected roofs, HSG C
4,005	98	Paved parking, HSG C
6,698	92	Weighted Average
1,542		23.02% Pervious Area
5,156		76.98% Impervious Area
1,151		22.32% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 64S: P3L

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 0.011 af, Depth> 1.99"
Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
965	74	>75% Grass cover, Good, HSG C
1,920	98	Paved parking, HSG C
2,885	90	Weighted Average
965		33.45% Pervious Area
1,920		66.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 65S: P3M

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 0.021 af, Depth> 2.08"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,636	74	>75% Grass cover, Good, HSG C
1,756	98	Unconnected roofs, HSG C
2,005	98	Paved parking, HSG C
5,397	91	Weighted Average
1,636		30.31% Pervious Area
3,761		69.69% Impervious Area
1,756		46.69% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 66S: P3N

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 2.08"
Routed to Pond 83P : CB 86

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Type III 24-hr 2-Year Rainfall=3.15"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,108	74	>75% Grass cover, Good, HSG C
1,824	98	Unconnected roofs, HSG C
3,816	98	Paved parking, HSG C
7,748	91	Weighted Average
2,108		27.21% Pervious Area
5,640		72.79% Impervious Area
1,824		32.34% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 67S: P3O

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 0.036 af, Depth> 2.26"
 Routed to Pond 84P : CB 87

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,792	74	>75% Grass cover, Good, HSG C
2,605	98	Unconnected roofs, HSG C
3,857	98	Paved parking, HSG C
8,254	93	Weighted Average
1,792		21.71% Pervious Area
6,462		78.29% Impervious Area
2,605		40.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 68S: P3P

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 0.018 af, Depth> 2.26"
 Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
802	74	>75% Grass cover, Good, HSG C
3,268	98	Paved parking, HSG C
4,070	93	Weighted Average
802		19.71% Pervious Area
3,268		80.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 69S: P2E

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af, Depth> 2.36"
Routed to Pond 66P : CB 68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,227	74	>75% Grass cover, Good, HSG C
1,596	98	Unconnected roofs, HSG C
4,265	98	Paved parking, HSG C
7,088	94	Weighted Average
1,227		17.31% Pervious Area
5,861		82.69% Impervious Area
1,596		27.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 70S: P2F

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.021 af, Depth> 2.73"
Routed to Pond 67P : CB 69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,932	98	Paved parking, HSG C
3,932		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 71S: P2A

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 1.99"
Routed to Pond 73P : CB 64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,800	98	Unconnected roofs, HSG C
3,751	74	>75% Grass cover, Good, HSG C
4,427	98	Paved parking, HSG C
10,978	90	Weighted Average
3,751		34.17% Pervious Area
7,227		65.83% Impervious Area
2,800		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 72S: P2B

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af, Depth> 1.99"
Routed to Pond 74P : CB 65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,643	74	>75% Grass cover, Good, HSG C
4,920	98	Paved parking, HSG C
7,563	90	Weighted Average
2,643		34.95% Pervious Area
4,920		65.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 73S: P2G

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 2.08"
Routed to Pond 76P : CB 70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,345	74	>75% Grass cover, Good, HSG C
1,348	98	Unconnected roofs, HSG C
122	98	Unconnected roofs, HSG A
34	39	>75% Grass cover, Good, HSG A
673	98	Paved parking, HSG A
3,701	98	Paved parking, HSG C
8,223	91	Weighted Average
2,379		28.93% Pervious Area
5,844		71.07% Impervious Area
1,470		25.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 74S: P2H

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 2.45"
Routed to Pond 77P : CB 71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
200	39	>75% Grass cover, Good, HSG A
610	98	Unconnected roofs, HSG A
3,458	98	Paved parking, HSG A
4,268	95	Weighted Average
200		4.69% Pervious Area
4,068		95.31% Impervious Area
610		15.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 75S: P3Q

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 1.91"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,641	74	>75% Grass cover, Good, HSG C
1,994	98	Unconnected roofs, HSG C
4,584	98	Paved parking, HSG C
10,219	89	Weighted Average
3,641		35.63% Pervious Area
6,578		64.37% Impervious Area
1,994		30.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 76S: P3R

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 0.057 af, Depth> 2.17"
Routed to Pond 103P : CB 92

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,162	74	>75% Grass cover, Good, HSG C
4,063	98	Unconnected roofs, HSG C
6,424	98	Paved parking, HSG C
13,649	92	Weighted Average
3,162		23.17% Pervious Area
10,487		76.83% Impervious Area
4,063		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 77S: P3S

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 2.08"
Routed to Pond 102P : CB 93

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,358	74	>75% Grass cover, Good, HSG C
702	98	Unconnected roofs, HSG C
4,697	98	Paved parking, HSG C
7,757	91	Weighted Average
2,358		30.40% Pervious Area
5,399		69.60% Impervious Area
702		13.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 78S: P1S

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 1.67"
Routed to Pond 112P : CB 45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
4,541	74	>75% Grass cover, Good, HSG C
2,275	98	Unconnected roofs, HSG C
693	39	>75% Grass cover, Good, HSG A
412	98	Paved parking, HSG A
4,709	98	Paved parking, HSG C
12,630	86	Weighted Average
5,234		41.44% Pervious Area
7,396		58.56% Impervious Area
2,275		30.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 79S: P1T

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 2.08"
Routed to Pond 122P : CB 46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,187	74	>75% Grass cover, Good, HSG C
2,930	98	Unconnected roofs, HSG C
118	39	>75% Grass cover, Good, HSG A
214	98	Paved parking, HSG A
5,533	98	Paved parking, HSG C
11,982	91	Weighted Average
3,305		27.58% Pervious Area
8,677		72.42% Impervious Area
2,930		33.77% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 80S: P3KK

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 0.025 af, Depth> 1.53"
Routed to Pond 125P : CB 36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,989	39	>75% Grass cover, Good, HSG A
4,268	98	Unconnected roofs, HSG A
2,300	98	Paved parking, HSG A
8,557	84	Weighted Average
1,989		23.24% Pervious Area
6,568		76.76% Impervious Area
4,268		64.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 81S: P3LL

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 1.67"
Routed to Pond 126P : CB 37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,037	39	>75% Grass cover, Good, HSG A
4,991	98	Unconnected roofs, HSG A
2,757	98	Paved parking, HSG A
9,785	86	Weighted Average
2,037		20.82% Pervious Area
7,748		79.18% Impervious Area
4,991		64.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 82S: P3SS

Runoff = 0.44 cfs @ 12.10 hrs, Volume= 0.029 af, Depth> 1.20"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
4,180	39	>75% Grass cover, Good, HSG A
3,055	98	Unconnected roofs, HSG A
5,645	98	Paved parking, HSG A
12,880	79	Weighted Average
4,180		32.45% Pervious Area
8,700		67.55% Impervious Area
3,055		35.11% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 83S: P2I

Runoff = 0.47 cfs @ 12.10 hrs, Volume= 0.032 af, Depth> 1.20"
Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,861	39	>75% Grass cover, Good, HSG A
1,821	98	Unconnected roofs, HSG A
3,857	74	>75% Grass cover, Good, HSG C
597	98	Paved parking, HSG C
4,711	98	Paved parking, HSG A
13,847	79	Weighted Average
6,718		48.52% Pervious Area
7,129		51.48% Impervious Area
1,821		25.54% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 84S: P2AA

Runoff = 1.42 cfs @ 12.14 hrs, Volume= 0.111 af, Depth> 0.81"
Routed to Link 60L : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
2,224	98		Unconnected roofs, HSG C
1,231	98		Unconnected pavement, HSG C
37,322	70		Woods, Good, HSG C
27,161	74		>75% Grass cover, Good, HSG C
242	98		Unconnected pavement, HSG A
1,399	39		>75% Grass cover, Good, HSG A
1,546	98		Unconnected roofs, HSG A
71,125	73	72	Weighted Average, UI Adjusted
65,882			92.63% Pervious Area
5,243			7.37% Impervious Area
5,243			100.00% Unconnected

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Type III 24-hr 2-Year Rainfall=3.15"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.4	68	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	57	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	26	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	201	Total			

Summary for Subcatchment 85S: (new Subcat)

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 1.46"
Routed to Pond 86P : Sub. Inf. 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,553	98	Roofs, HSG C
3,904	98	Unconnected pavement, HSG C
16,193	74	>75% Grass cover, Good, HSG C
25,650	83	Weighted Average
16,193		63.13% Pervious Area
9,457		36.87% Impervious Area
3,904		41.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 86S: P3TT

Runoff = 0.45 cfs @ 12.10 hrs, Volume= 0.030 af, Depth> 1.14"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
956	98	Unconnected roofs, HSG C
672	74	>75% Grass cover, Good, HSG C
4,346	39	>75% Grass cover, Good, HSG A
1,468	98	Unconnected roofs, HSG A
6,484	98	Paved parking, HSG A
13,926	78	Weighted Average
5,018		36.03% Pervious Area
8,908		63.97% Impervious Area
2,424		27.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 87S: P3A

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.26"
Routed to Pond 89P : CB 74

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
450	74	>75% Grass cover, Good, HSG C
1,823	98	Paved parking, HSG C
2,273	93	Weighted Average
450		19.80% Pervious Area
1,823		80.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 88S: P3B

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 2.17"
Routed to Pond 90P : CB 75

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,048	74	>75% Grass cover, Good, HSG C
1,562	98	Unconnected roofs, HSG C
1,928	98	Paved parking, HSG C
4,538	92	Weighted Average
1,048		23.09% Pervious Area
3,490		76.91% Impervious Area
1,562		44.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 89S: P3AAA

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 1.46"
Routed to Pond 151P : CB 22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,761	39	>75% Grass cover, Good, HSG A
5,184	98	Paved parking, HSG A
6,945	83	Weighted Average
1,761		25.36% Pervious Area
5,184		74.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 90S: P3BBB

Runoff = 0.31 cfs @ 12.10 hrs, Volume= 0.021 af, Depth> 1.20"
Routed to Pond 152P : CB 23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,961	39	>75% Grass cover, Good, HSG A
2,084	98	Unconnected roofs, HSG A
4,096	98	Paved parking, HSG A
9,141	79	Weighted Average
2,961		32.39% Pervious Area
6,180		67.61% Impervious Area
2,084		33.72% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 91S: P3GGG

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af, Depth> 1.14"
Routed to Pond 165P : CB 19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,041	39	>75% Grass cover, Good, HSG A
3,271	98	Unconnected roofs, HSG A
2,810	98	Paved parking, HSG A
9,122	78	Weighted Average
3,041		33.34% Pervious Area
6,081		66.66% Impervious Area
3,271		53.79% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 92S: P3C

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.024 af, Depth> 2.08"
Routed to Pond 95P : CB 76

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,796	74	>75% Grass cover, Good, HSG C
348	98	Unconnected roofs, HSG C
3,984	98	Paved parking, HSG C
6,128	91	Weighted Average
1,796		29.31% Pervious Area
4,332		70.69% Impervious Area
348		8.03% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 93S: P3D

Runoff = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af, Depth> 2.08"
Routed to Pond 94P : CB 77

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,560	74	>75% Grass cover, Good, HSG C
1,771	98	Unconnected roofs, HSG C
4,562	98	Paved parking, HSG C
8,893	91	Weighted Average
2,560		28.79% Pervious Area
6,333		71.21% Impervious Area
1,771		27.96% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 94S: P3HHH

Runoff = 0.39 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 1.53"
Routed to Pond 154P : CB 18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,098	39	>75% Grass cover, Good, HSG A
3,837	98	Unconnected roofs, HSG A
3,091	98	Paved parking, HSG A
9,026	84	Weighted Average
2,098		23.24% Pervious Area
6,928		76.76% Impervious Area
3,837		55.38% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 95S: P2X

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.034 af, Depth> 2.73"
Routed to Pond 79P : DMH 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,460	98	Paved parking, HSG C
6,460		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 97S: P3G

Runoff = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af, Depth> 2.17"
Routed to Pond 100P : CB 80

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
4,471	74	>75% Grass cover, Good, HSG C
3,720	98	Unconnected roofs, HSG C
8,474	98	Paved parking, HSG C
16,665	92	Weighted Average
4,471		26.83% Pervious Area
12,194		73.17% Impervious Area
3,720		30.51% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 98S: P3H

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 1.99"
 Routed to Pond 99P : CB 81

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,581	74	>75% Grass cover, Good, HSG C
2,279	98	Unconnected roofs, HSG C
5,358	98	Paved parking, HSG C
11,218	90	Weighted Average
3,581		31.92% Pervious Area
7,637		68.08% Impervious Area
2,279		29.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: P3J

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 0.055 af, Depth> 1.91"
 Routed to Pond 104P : CB 83

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,342	74	>75% Grass cover, Good, HSG C
2,771	98	Unconnected roofs, HSG C
6,812	98	Paved parking, HSG C
14,925	89	Weighted Average
5,342		35.79% Pervious Area
9,583		64.21% Impervious Area
2,771		28.92% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 103S: P3I

Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.091 af, Depth> 2.17"
Routed to Pond 105P : CB 82

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,534	74	>75% Grass cover, Good, HSG C
6,057	98	Unconnected roofs, HSG C
10,372	98	Paved parking, HSG C
21,963	92	Weighted Average
5,534		25.20% Pervious Area
16,429		74.80% Impervious Area
6,057		36.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 107S: P3E

Runoff = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af, Depth> 1.91"
Routed to Pond 110P : CB 78

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,163	74	>75% Grass cover, Good, HSG C
2,724	98	Unconnected roofs, HSG C
8,355	98	Paved parking, HSG C
17,242	89	Weighted Average
6,163		35.74% Pervious Area
11,079		64.26% Impervious Area
2,724		24.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 108S: P3F

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af, Depth> 1.91"
Routed to Pond 109P : CB 79

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
7,073	74	>75% Grass cover, Good, HSG C
5,397	98	Unconnected roofs, HSG C
7,421	98	Paved parking, HSG C
19,891	89	Weighted Average
7,073		35.56% Pervious Area
12,818		64.44% Impervious Area
5,397		42.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 109S: P3T

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 2.36"
Routed to Pond 116P : CB 90

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
773	74	>75% Grass cover, Good, HSG C
4,122	98	Paved parking, HSG C
4,895	94	Weighted Average
773		15.79% Pervious Area
4,122		84.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 110S: P3U

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.050 af, Depth> 2.17"
Routed to Pond 115P : CB 91

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
2,921	74	>75% Grass cover, Good, HSG C
6,099	98	Unconnected roofs, HSG C
2,977	98	Paved parking, HSG C
11,997	92	Weighted Average
2,921		24.35% Pervious Area
9,076		75.65% Impervious Area
6,099		67.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 111S: P3V

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.054 af, Depth> 2.26"
Routed to Pond 114P : CB 94

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,412	74	>75% Grass cover, Good, HSG C
5,977	98	Unconnected roofs, HSG C
4,046	98	Paved parking, HSG C
12,435	93	Weighted Average
2,412		19.40% Pervious Area
10,023		80.60% Impervious Area
5,977		59.63% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 112S: P3W

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 2.55"
Routed to Pond 113P : CB 95

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
719	74	>75% Grass cover, Good, HSG C
7,508	98	Paved parking, HSG C
8,227	96	Weighted Average
719		8.74% Pervious Area
7,508		91.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 125S: P3EE

Runoff = 0.22 cfs @ 12.12 hrs, Volume= 0.020 af, Depth> 0.44"
Routed to Pond 132P : CB 33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
13,700	39	>75% Grass cover, Good, HSG A
9,600	98	Paved parking, HSG A
23,300	63	Weighted Average
13,700		58.80% Pervious Area
9,600		41.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 126S: P3FF

Runoff = 0.23 cfs @ 12.10 hrs, Volume= 0.017 af, Depth> 0.77"
Routed to Pond 129P : CB 34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,177	39	>75% Grass cover, Good, HSG A
4,336	98	Unconnected roofs, HSG A
1,799	98	Paved parking, HSG A
11,312	71	Weighted Average
5,177		45.77% Pervious Area
6,135		54.23% Impervious Area
4,336		70.68% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 128S: P3HH

Runoff = 0.07 cfs @ 12.12 hrs, Volume= 0.007 af, Depth> 0.40"
Routed to Pond 131P : CB 35

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Type III 24-hr 2-Year Rainfall=3.15"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
5,501	39	>75% Grass cover, Good, HSG A
2,801	98	Unconnected roofs, HSG A
824	98	Paved parking, HSG A
9,126	62	Weighted Average
5,501		60.28% Pervious Area
3,625		39.72% Impervious Area
2,801		77.27% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 129S: P3MM

Runoff = 0.25 cfs @ 12.10 hrs, Volume= 0.017 af, Depth> 1.14"
 Routed to Pond 136P : CB 38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,648	39	>75% Grass cover, Good, HSG A
2,583	98	Unconnected roofs, HSG A
2,610	98	Paved parking, HSG A
7,841	78	Weighted Average
2,648		33.77% Pervious Area
5,193		66.23% Impervious Area
2,583		49.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 130S: P3NN

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 0.017 af, Depth> 1.39"
 Routed to Pond 138P : CB 39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,726	39	>75% Grass cover, Good, HSG A
1,686	98	Unconnected roofs, HSG A
2,883	98	Paved parking, HSG A
6,295	82	Weighted Average
1,726		27.42% Pervious Area
4,569		72.58% Impervious Area
1,686		36.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 136S: P3II

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 0.035 af, Depth> 1.67"
Routed to Pond 137P : CB 44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,148	39	>75% Grass cover, Good, HSG A
4,052	98	Unconnected roofs, HSG A
4,700	98	Paved parking, HSG A
10,900	86	Weighted Average
2,148		19.71% Pervious Area
8,752		80.29% Impervious Area
4,052		46.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 138S: P3JJ

Runoff = 0.00 cfs @ 20.00 hrs, Volume= 0.000 af, Depth> 0.00"
Routed to Pond 246P : Sub. Inf. 3D

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
989	98		Unconnected roofs, HSG A
13,225	39		>75% Grass cover, Good, HSG A
14,214	43	41	Weighted Average, UI Adjusted
13,225			93.04% Pervious Area
989			6.96% Impervious Area
989			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 140S: P300

Runoff = 0.57 cfs @ 12.10 hrs, Volume= 0.039 af, Depth> 1.14"
Routed to Pond 142P : CB 40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,065	39	>75% Grass cover, Good, HSG A
5,813	98	Unconnected roofs, HSG A
5,951	98	Paved parking, HSG A
17,829	78	Weighted Average
6,065		34.02% Pervious Area
11,764		65.98% Impervious Area
5,813		49.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 141S: P3PP

Runoff = 0.80 cfs @ 12.10 hrs, Volume= 0.055 af, Depth> 1.14"
Routed to Pond 143P : CB 41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
8,502	39	>75% Grass cover, Good, HSG A
8,019	98	Unconnected roofs, HSG A
8,610	98	Paved parking, HSG A
25,131	78	Weighted Average
8,502		33.83% Pervious Area
16,629		66.17% Impervious Area
8,019		48.22% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 142S: P3UU

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 0.009 af, Depth> 1.39"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
915	39	>75% Grass cover, Good, HSG A
2,416	98	Paved parking, HSG A
3,331	82	Weighted Average
915		27.47% Pervious Area
2,416		72.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 143S: P3VV

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 1.46"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
906	39	>75% Grass cover, Good, HSG A
2,555	98	Paved parking, HSG A
3,461	83	Weighted Average
906		26.18% Pervious Area
2,555		73.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 147S: P3QQ

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 1.67"
Routed to Pond 148P : CB 43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
1,691	39	>75% Grass cover, Good, HSG A
2,319	98	Unconnected roofs, HSG A
4,534	98	Paved parking, HSG A
8,544	86	Weighted Average
1,691		19.79% Pervious Area
6,853		80.21% Impervious Area
2,319		33.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 149S: P3RR

Runoff = 0.00 cfs @ 20.00 hrs, Volume= 0.000 af, Depth> 0.00"

Routed to Pond 240P : Sub. Inf. 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
803	98		Unconnected roofs, HSG A
7,150	39		>75% Grass cover, Good, HSG A
7,953	45	42	Weighted Average, UI Adjusted
7,150			89.90% Pervious Area
803			10.10% Impervious Area
803			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 151S: P3ZZ

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 1.67"

Routed to Pond 159P : CB 25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,297	39	>75% Grass cover, Good, HSG A
5,062	98	Paved parking, HSG A
6,359	86	Weighted Average
1,297		20.40% Pervious Area
5,062		79.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 152S: P3YY

Runoff = 0.19 cfs @ 12.10 hrs, Volume= 0.013 af, Depth> 1.32"
Routed to Pond 158P : CB 24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,505	39	>75% Grass cover, Good, HSG A
3,584	98	Paved parking, HSG A
5,089	81	Weighted Average
1,505		29.57% Pervious Area
3,584		70.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 153S: P3WW

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 1.46"
Routed to Pond 155P : CB 27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,428	39	>75% Grass cover, Good, HSG A
2,576	98	Unconnected roofs, HSG A
4,570	98	Paved parking, HSG A
9,574	83	Weighted Average
2,428		25.36% Pervious Area
7,146		74.64% Impervious Area
2,576		36.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 154S: P3XX

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 2.17"
Routed to Pond 156P : CB 26

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Type III 24-hr 2-Year Rainfall=3.15"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
467	39	>75% Grass cover, Good, HSG A
2,369	98	Unconnected roofs, HSG A
1,866	98	Paved parking, HSG A
4,702	92	Weighted Average
467		9.93% Pervious Area
4,235		90.07% Impervious Area
2,369		55.94% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 155S: P3CCC

Runoff = 0.39 cfs @ 12.10 hrs, Volume= 0.026 af, Depth> 1.02"
 Routed to Pond 163P : CB 14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
4,959	39	>75% Grass cover, Good, HSG A
1,047	98	Unconnected roofs, HSG A
7,531	98	Paved parking, HSG A
13,537	76	Weighted Average
4,959		36.63% Pervious Area
8,578		63.37% Impervious Area
1,047		12.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 156S: P3DDD

Runoff = 0.48 cfs @ 12.10 hrs, Volume= 0.033 af, Depth> 1.02"
 Routed to Pond 162P : CB 15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,264	39	>75% Grass cover, Good, HSG A
3,815	98	Unconnected roofs, HSG A
6,922	98	Paved parking, HSG A
17,001	76	Weighted Average
6,264		36.84% Pervious Area
10,737		63.16% Impervious Area
3,815		35.53% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 165S: P3FFF

Runoff = 0.03 cfs @ 12.29 hrs, Volume= 0.005 af, Depth> 0.25"
Routed to Pond 168P : CB 10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
7,041	39	>75% Grass cover, Good, HSG A
3,025	98	Paved parking, HSG A
10,066	57	Weighted Average
7,041		69.95% Pervious Area
3,025		30.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 166S: P3EEE

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af, Depth> 1.14"
Routed to Pond 167P : CB 11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,114	39	>75% Grass cover, Good, HSG A
3,120	98	Paved parking, HSG A
2,866	98	Unconnected roofs, HSG A
9,100	78	Weighted Average
3,114		34.22% Pervious Area
5,986		65.78% Impervious Area
2,866		47.88% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 170S: P3JJJ

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 1.53"
Routed to Pond 172P : CB 16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,334	39	>75% Grass cover, Good, HSG A
6,476	98	Unconnected roofs, HSG A
3,993	98	Paved parking, HSG A
13,803	84	Weighted Average
3,334		24.15% Pervious Area
10,469		75.85% Impervious Area
6,476		61.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 171S: P3III

Runoff = 0.21 cfs @ 12.10 hrs, Volume= 0.014 af, Depth> 1.32"
Routed to Pond 173P : CB 17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,629	39	>75% Grass cover, Good, HSG A
1,823	98	Unconnected roofs, HSG A
2,201	98	Paved parking, HSG A
5,653	81	Weighted Average
1,629		28.82% Pervious Area
4,024		71.18% Impervious Area
1,823		45.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 175S: P3KKK

Runoff = 0.42 cfs @ 12.10 hrs, Volume= 0.029 af, Depth> 1.08"
Routed to Pond 177P : CB 13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
4,945	39	>75% Grass cover, Good, HSG A
3,545	98	Unconnected roofs, HSG A
5,414	98	Paved parking, HSG A
13,904	77	Weighted Average
4,945		35.57% Pervious Area
8,959		64.43% Impervious Area
3,545		39.57% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 176S: P3LLL

Runoff = 0.18 cfs @ 12.10 hrs, Volume= 0.012 af, Depth> 0.97"
Routed to Pond 178P : CB 12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,605	39	>75% Grass cover, Good, HSG A
958	98	Unconnected roofs, HSG A
3,077	98	Paved parking, HSG A
6,640	75	Weighted Average
2,605		39.23% Pervious Area
4,035		60.77% Impervious Area
958		23.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 182S: P3MMM

Runoff = 0.12 cfs @ 12.10 hrs, Volume= 0.008 af, Depth> 0.86"
Routed to Pond 61P : CB 8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
2,196	39	>75% Grass cover, Good, HSG A
413	98	Unconnected roofs, HSG A
2,502	98	Paved parking, HSG A
5,111	73	Weighted Average
2,196		42.97% Pervious Area
2,915		57.03% Impervious Area
413		14.17% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 183S: P3NNN

Runoff = 0.26 cfs @ 12.10 hrs, Volume= 0.018 af, Depth> 0.97"
 Routed to Pond 170P : CB 9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,796	39	>75% Grass cover, Good, HSG A
2,443	98	Unconnected roofs, HSG A
3,632	98	Paved parking, HSG A
9,871	75	Weighted Average
3,796		38.46% Pervious Area
6,075		61.54% Impervious Area
2,443		40.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 184S: P3000

Runoff = 0.20 cfs @ 12.10 hrs, Volume= 0.014 af, Depth> 0.86"
 Routed to Pond 176P : CB 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,656	39	>75% Grass cover, Good, HSG A
1,177	98	Unconnected roofs, HSG A
3,814	98	Paved parking, HSG A
8,647	73	Weighted Average
3,656		42.28% Pervious Area
4,991		57.72% Impervious Area
1,177		23.58% Unconnected

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Type III 24-hr 2-Year Rainfall=3.15"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 185S: P3PPP

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 0.013 af, Depth> 1.46"
 Routed to Pond 182P : CB 7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,135	39	>75% Grass cover, Good, HSG A
1,267	98	Unconnected roofs, HSG A
2,170	98	Paved parking, HSG A
4,572	83	Weighted Average
1,135		24.83% Pervious Area
3,437		75.17% Impervious Area
1,267		36.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 186S: P3QQQ

Runoff = 0.13 cfs @ 12.10 hrs, Volume= 0.009 af, Depth> 0.72"
 Routed to Pond 188P : CB 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,125	39	>75% Grass cover, Good, HSG A
992	30	Woods, Good, HSG A
3,757	98	Paved parking, HSG A
6,874	70	Weighted Average
3,117		45.34% Pervious Area
3,757		54.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 187S: P3RRR

Runoff = 0.44 cfs @ 12.10 hrs, Volume= 0.030 af, Depth> 1.26"
 Routed to Pond 189P : CB 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,803	39	>75% Grass cover, Good, HSG A
2,556	98	Unconnected roofs, HSG A
5,935	98	Paved parking, HSG A
12,294	80	Weighted Average
3,803		30.93% Pervious Area
8,491		69.07% Impervious Area
2,556		30.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 189S: (new Subcat)

Runoff = 0.32 cfs @ 12.59 hrs, Volume= 0.074 af, Depth> 0.17"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
56,652	30	Woods, Good, HSG A
56,569	70	Woods, Good, HSG C
2,509	98	Unconnected roofs, HSG C
1,351	98	Unconnected pavement, HSG C
3,066	98	Unconnected roofs, HSG A
1,335	98	Unconnected pavement, HSG A
49,779	74	>75% Grass cover, Good, HSG C
54,766	39	>75% Grass cover, Good, HSG A
226,027	54	Weighted Average
217,766		96.35% Pervious Area
8,261		3.65% Impervious Area
8,261		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.3	272	0.0450	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.8	322	Total			

Summary for Subcatchment 190S: (new Subcat)

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af, Depth> 1.99"
Routed to Pond 191P : CB 42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,763	98	Unconnected roofs, HSG A
1,707	39	>75% Grass cover, Good, HSG A
6,608	98	Paved parking, HSG A
12,078	90	Weighted Average
1,707		14.13% Pervious Area
10,371		85.87% Impervious Area
3,763		36.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 191S: P3SSS

Runoff = 0.01 cfs @ 12.39 hrs, Volume= 0.002 af, Depth> 0.15"
Routed to Pond 193P : CB 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
1,068	39	>75% Grass cover, Good, HSG A
4,042	30	Woods, Good, HSG A
2,372	98	Paved parking, HSG A
7,482	53	Weighted Average
5,110		68.30% Pervious Area
2,372		31.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 192S: P3TTT

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.011 af, Depth> 1.46"
Routed to Pond 194P : CB 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Description
1,044	39	>75% Grass cover, Good, HSG A
3,031	98	Paved parking, HSG A
4,075	83	Weighted Average
1,044		25.62% Pervious Area
3,031		74.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 195S: P3UUU

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.047 af, Depth> 1.67"
 Routed to Pond 196P : CB 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
2,892	39	>75% Grass cover, Good, HSG A
4,558	98	Unconnected roofs, HSG A
7,174	98	Paved parking, HSG A
14,624	86	Weighted Average
2,892		19.78% Pervious Area
11,732		80.22% Impervious Area
4,558		38.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 198S: P3VVV

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
12,434	39	>75% Grass cover, Good, HSG A
12,434		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 202S: P3GG

Runoff = 0.34 cfs @ 12.11 hrs, Volume= 0.027 af, Depth> 0.55"
 Routed to Pond 201P : Sub. Inf. 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
9,091	98	Unconnected roofs, HSG A
2,905	98	Unconnected pavement, HSG A
14,042	39	>75% Grass cover, Good, HSG A
26,038	66	Weighted Average
14,042		53.93% Pervious Area
11,996		46.07% Impervious Area
11,996		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 204S: (new Subcat)

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Link 203L : 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Adj	Description
76,501	30		Woods, Good, HSG A
76,716	39		>75% Grass cover, Good, HSG A
1,878	98		Unconnected roofs, HSG A
1,671	98		Unconnected pavement, HSG A
156,766	36	35	Weighted Average, UI Adjusted
153,217			97.74% Pervious Area
3,549			2.26% Impervious Area
3,549			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
0.6	85	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	135	Total			

Summary for Subcatchment 205S: (new Subcat)

Runoff = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af, Depth> 1.08"
Routed to Pond 218P : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
4,257	98	Paved parking, HSG A
1,759	98	Unconnected roofs, HSG A
3,306	39	>75% Grass cover, Good, HSG A
9,322	77	Weighted Average
3,306		35.46% Pervious Area
6,016		64.54% Impervious Area
1,759		29.24% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 206S: (new Subcat)

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
15,098	39	>75% Grass cover, Good, HSG A
15,098		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 207S: (new Subcat)

Runoff = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Depth= 0.00"
Routed to Pond 216P : CB 8A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

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Type III 24-hr 2-Year Rainfall=3.15"

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Area (sf)	CN	Adj	Description
1,937	98		Unconnected roofs, HSG A
1,504	98		Paved parking, HSG A
16,314	30		Woods, Good, HSG A
1,313	39		>75% Grass cover, Good, HSG A
21,068	42	39	Weighted Average, UI Adjusted
17,627			83.67% Pervious Area
3,441			16.33% Impervious Area
1,937			56.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	50	0.0250	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.2	106	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.7	156	Total			

Summary for Subcatchment 216S: (new Subcat)

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 1.60"
 Routed to Pond 215P : CB 5A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
3,069	98	Paved parking, HSG A
1,946	98	Unconnected roofs, HSG A
1,471	39	>75% Grass cover, Good, HSG A
6,486	85	Weighted Average
1,471		22.68% Pervious Area
5,015		77.32% Impervious Area
1,946		38.80% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 240S: P3EE2

Runoff = 0.49 cfs @ 12.00 hrs, Volume= 0.032 af, Depth> 2.73"
 Routed to Pond 249P : SUB.INF 3E

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
6,060	98	Roofs, HSG A
6,060		100.00% Impervious Area

Summary for Subcatchment 249S: P3EE1

Runoff = 1.01 cfs @ 12.00 hrs, Volume= 0.060 af, Depth> 2.18"
Routed to Pond 248P : SUB.INF 3F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
7,986	98	Roofs, HSG A
4,978	98	Paved parking, HSG A
1,525	39	>75% Grass cover, Good, HSG A
14,489	92	Weighted Average
1,525		10.53% Pervious Area
12,964		89.47% Impervious Area

Summary for Subcatchment EA1: Emerg, Access Culvrt

Runoff = 0.37 cfs @ 12.01 hrs, Volume= 0.023 af, Depth> 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-Year Rainfall=3.15"

Area (sf)	CN	Description
7,168	39	>75% Grass cover, Good, HSG A
8,378	98	Paved parking, HSG A
15,546	71	Weighted Average
7,168		46.11% Pervious Area
8,378		53.89% Impervious Area

Summary for Reach 204R: WATER QUALTY SWALW

Inflow Area = 0.705 ac, 57.45% Impervious, Inflow Depth > 0.90" for 2-Year event
Inflow = 0.74 cfs @ 12.10 hrs, Volume= 0.053 af
Outflow = 0.57 cfs @ 12.30 hrs, Volume= 0.052 af, Atten= 23%, Lag= 12.0 min
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.26 fps, Min. Travel Time= 7.3 min
Avg. Velocity= 0.10 fps, Avg. Travel Time= 18.5 min

Peak Storage= 254 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.42' , Surface Width= 6.52'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 59.02 cfs

4.00' x 4.00' deep channel, n= 0.080 Earth, long dense weeds

Side Slope Z-value= 3.0 '/' Top Width= 28.00'

Length= 115.0' Slope= 0.0009 '/'

Inlet Invert= 45.80', Outlet Invert= 45.70'



Summary for Pond 15P: Det. Basin 5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 1.33" for 2-Year event

Inflow = 4.63 cfs @ 12.11 hrs, Volume= 0.221 af

Outflow = 0.08 cfs @ 17.29 hrs, Volume= 0.053 af, Atten= 98%, Lag= 311.0 min

Primary = 0.08 cfs @ 17.29 hrs, Volume= 0.053 af

Routed to Pond 212P : level spreader DB5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.31' @ 17.29 hrs Surf.Area= 6,410 sf Storage= 7,588 cf

Plug-Flow detention time= 245.7 min calculated for 0.053 af (24% of inflow)

Center-of-Mass det. time= 167.5 min (971.0 - 803.4)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	28,519 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,169	0	0
53.00	6,098	5,634	5,634
54.00	7,097	6,598	12,231
55.00	8,158	7,628	19,859
56.00	9,163	8,661	28,519

Device	Routing	Invert	Outlet Devices
#1	Primary	51.70'	18.0" Round Culvert L= 53.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 51.70' / 51.50' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	1.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.35'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 1	54.70'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.08 cfs @ 17.29 hrs HW=53.31' (Free Discharge)

- 1=Culvert (Passes 0.08 cfs of 6.35 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 5.37 fps)
- 3=Orifice/Grate (Controls 0.00 cfs)
- 4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond 16P: CB 58

Inflow Area = 0.172 ac, 96.61% Impervious, Inflow Depth > 2.64" for 2-Year event
 Inflow = 0.51 cfs @ 12.09 hrs, Volume= 0.038 af
 Outflow = 0.51 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.51 cfs @ 12.09 hrs, Volume= 0.038 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.53' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=62.52' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.49 cfs @ 2.31 fps)

Summary for Pond 17P: CB 59

Inflow Area = 0.381 ac, 74.19% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 0.069 af
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 0.069 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0067 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=62.73' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.96 cfs @ 2.63 fps)

Summary for Pond 18P: CB 63

Inflow Area = 0.140 ac, 64.30% Impervious, Inflow Depth > 1.91" for 2-Year event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af
 Outflow = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af
 Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.22' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.09 hrs HW=64.21' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.32 cfs @ 2.08 fps)

Summary for Pond 19P: CB 62

Inflow Area = 0.064 ac, 81.50% Impervious, Inflow Depth > 2.36" for 2-Year event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af
Outflow = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af
Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=64.11' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.17 cfs @ 1.83 fps)

Summary for Pond 20P: DMH 43

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 2.32" for 2-Year event
Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af
Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af
Routed to Pond 21P : DMH 42

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.90'	12.0" Round Culvert L= 66.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.90' / 61.57' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=62.69' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.45 cfs @ 3.02 fps)

Summary for Pond 21P: DMH 42

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 2.32" for 2-Year event
 Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af
 Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.107 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.26' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	12.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.47' / 61.10' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=62.25' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.45 cfs @ 3.06 fps)

Summary for Pond 22P: CB 56

Inflow Area = 0.127 ac, 100.00% Impervious, Inflow Depth > 2.73" for 2-Year event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=61.55' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.37 cfs @ 2.20 fps)

Summary for Pond 23P: CB 57

Inflow Area = 0.315 ac, 81.38% Impervious, Inflow Depth > 2.36" for 2-Year event
 Inflow = 0.86 cfs @ 12.09 hrs, Volume= 0.062 af
 Outflow = 0.86 cfs @ 12.09 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.86 cfs @ 12.09 hrs, Volume= 0.062 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=61.77' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.84 cfs @ 2.63 fps)

Summary for Pond 24P: DMH 41

Inflow Area = 0.994 ac, 83.63% Impervious, Inflow Depth > 2.38" for 2-Year event
Inflow = 2.73 cfs @ 12.09 hrs, Volume= 0.197 af
Outflow = 2.73 cfs @ 12.09 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min
Primary = 2.73 cfs @ 12.09 hrs, Volume= 0.197 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	18.0" Round Culvert L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 59.23' S= 0.0322 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.66 cfs @ 12.09 hrs HW=61.87' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.66 cfs @ 2.51 fps)

Summary for Pond 25P: DMH 45

Inflow Area = 0.203 ac, 69.67% Impervious, Inflow Depth > 2.05" for 2-Year event
Inflow = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af
Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.68'	12.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.68' / 62.20' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=64.07' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.49 cfs @ 1.69 fps)

Summary for Pond 26P: CB 61

Inflow Area = 0.265 ac, 66.20% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 0.64 cfs @ 12.09 hrs, Volume= 0.044 af
 Outflow = 0.64 cfs @ 12.09 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.64 cfs @ 12.09 hrs, Volume= 0.044 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 12.09 hrs HW=62.79' (Free Discharge)
 ↑1=Culvert (Barrel Controls 0.62 cfs @ 2.38 fps)

Summary for Pond 27P: CB 60

Inflow Area = 0.111 ac, 71.39% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 0.019 af
 Outflow = 0.28 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.28 cfs @ 12.09 hrs, Volume= 0.019 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.61' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=62.60' (Free Discharge)
 ↑1=Culvert (Barrel Controls 0.27 cfs @ 2.00 fps)

Summary for Pond 28P: DMH 44

Inflow Area = 0.579 ac, 68.41% Impervious, Inflow Depth > 2.03" for 2-Year event
 Inflow = 1.41 cfs @ 12.09 hrs, Volume= 0.098 af
 Outflow = 1.41 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.41 cfs @ 12.09 hrs, Volume= 0.098 af
 Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 85.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 59.23' S= 0.0338 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.38 cfs @ 12.09 hrs HW=62.82' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.38 cfs @ 2.28 fps)

Summary for Pond 29P: DMH 40

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 2.25" for 2-Year event
Inflow = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af
Outflow = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af, Atten= 0%, Lag= 0.0 min
Primary = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af
Routed to Pond 38P : DMH 39

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.13'	24.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.13' / 58.83' S= 0.0120 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=60.14' (Free Discharge)

↑**1=Culvert** (Barrel Controls 4.26 cfs @ 3.92 fps)

Summary for Pond 30P: CB 55

Inflow Area = 0.083 ac, 78.43% Impervious, Inflow Depth > 2.26" for 2-Year event
Inflow = 0.22 cfs @ 12.09 hrs, Volume= 0.016 af
Outflow = 0.22 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 12.09 hrs, Volume= 0.016 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.23'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.23' / 59.23' S= 0.0667 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=60.49' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.22 cfs @ 1.36 fps)

Summary for Pond 31P: CB 51

Inflow Area = 0.044 ac, 96.85% Impervious, Inflow Depth > 2.64" for 2-Year event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Outflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.50' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=60.50' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.13 cfs @ 1.71 fps)

Summary for Pond 32P: CB 52

Inflow Area = 0.225 ac, 78.85% Impervious, Inflow Depth > 2.26" for 2-Year event
 Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=60.77' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.40 fps)

Summary for Pond 33P: CB 53

Inflow Area = 0.044 ac, 100.00% Impervious, Inflow Depth > 2.73" for 2-Year event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Outflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.96' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.76'	12.0" Round Culvert L= 9.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.76' / 59.76' S= 0.1111 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=60.96' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.13 cfs @ 1.19 fps)

Summary for Pond 34P: DMH 36

Inflow Area = 0.270 ac, 81.82% Impervious, Inflow Depth > 2.33" for 2-Year event
Inflow = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af
Outflow = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 67.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.76' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.71 cfs @ 12.09 hrs HW=60.61' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.71 cfs @ 2.56 fps)

Summary for Pond 35P: DMH 37

Inflow Area = 0.244 ac, 95.52% Impervious, Inflow Depth > 2.66" for 2-Year event
Inflow = 0.72 cfs @ 12.09 hrs, Volume= 0.054 af
Outflow = 0.72 cfs @ 12.09 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.09 hrs, Volume= 0.054 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.18' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.66'	12.0" Round Culvert L= 52.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.66' / 59.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=60.17' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.70 cfs @ 2.51 fps)

Summary for Pond 36P: CB 54

Inflow Area = 0.200 ac, 94.53% Impervious, Inflow Depth > 2.64" for 2-Year event
 Inflow = 0.59 cfs @ 12.09 hrs, Volume= 0.044 af
 Outflow = 0.59 cfs @ 12.09 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.59 cfs @ 12.09 hrs, Volume= 0.044 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.64' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.20'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.20' / 59.40' S= 0.1143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.09 hrs HW=60.63' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.57 cfs @ 1.76 fps)

Summary for Pond 38P: DMH 39

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 2.25" for 2-Year event
 Inflow = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af
 Outflow = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af
 Routed to Pond 223P : Sub. Inf. 4B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.73'	24.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.73' / 58.60' S= 0.0260 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=59.80' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 4.26 cfs @ 3.60 fps)

Summary for Pond 41P: CB 49

Inflow Area = 0.022 ac, 100.00% Impervious, Inflow Depth > 2.73" for 2-Year event
 Inflow = 0.07 cfs @ 12.09 hrs, Volume= 0.005 af
 Outflow = 0.07 cfs @ 12.09 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.07 cfs @ 12.09 hrs, Volume= 0.005 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.64' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.09 hrs HW=58.64' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.07 cfs @ 1.00 fps)

Summary for Pond 42P: CB 50

Inflow Area = 0.182 ac, 66.96% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.030 af
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.030 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.89' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=58.88' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.43 cfs @ 2.32 fps)

Summary for Pond 43P: DMH 35

Inflow Area = 0.719 ac, 83.27% Impervious, Inflow Depth > 0.59" for 2-Year event
 Inflow = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af
 Outflow = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af
 Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.30' / 54.70' S= 0.0414 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=58.70' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.49 cfs @ 1.70 fps)

Summary for Pond 46P: CB 48

Inflow Area = 0.352 ac, 70.58% Impervious, Inflow Depth > 1.46" for 2-Year event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.63 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.63 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.29' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 12.09 hrs HW=55.28' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.62 cfs @ 2.45 fps)

Summary for Pond 47P: CB 47

Inflow Area = 0.120 ac, 97.54% Impervious, Inflow Depth > 2.64" for 2-Year event
 Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.027 af
 Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.35 cfs @ 12.09 hrs, Volume= 0.027 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=55.14' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.34 cfs @ 2.15 fps)

Summary for Pond 48P: DMH 33

Inflow Area = 0.472 ac, 77.45% Impervious, Inflow Depth > 1.76" for 2-Year event
 Inflow = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af
 Outflow = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af
 Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.97 cfs @ 12.09 hrs HW=55.20' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.97 cfs @ 2.79 fps)**Summary for Pond 49P: Sub. Inf. 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 1.32" for 2-Year event
Inflow = 2.78 cfs @ 12.09 hrs, Volume= 0.193 af
Outflow = 0.12 cfs @ 15.35 hrs, Volume= 0.091 af, Atten= 96%, Lag= 195.7 min
Discarded = 0.11 cfs @ 15.35 hrs, Volume= 0.089 af
Primary = 0.01 cfs @ 15.35 hrs, Volume= 0.001 af
Routed to Pond 211P : level spreader 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 56.74' @ 15.35 hrs Surf.Area= 3,024 sf Storage= 5,104 cf

Plug-Flow detention time= 195.1 min calculated for 0.091 af (47% of inflow)
Center-of-Mass det. time= 107.5 min (883.9 - 776.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	934 cf	42.00'W x 72.00'L x 4.17'H Field A 12,610 cf Overall - 10,276 cf Embedded = 2,334 cf x 40.0% Voids
#2A	55.00'	7,500 cf	Shea Leaching Chamber 8x14x3.7 x 25 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 25 Chambers in 5 Rows
8,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	54.50'	18.0" Round Culvert L= 76.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.50' / 51.50' S= 0.0395 ' S= 0.0395 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#3	Device 2	56.70'	6.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#4	Device 2	57.15'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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Discarded OutFlow Max=0.11 cfs @ 15.35 hrs HW=56.74' (Free Discharge)↑ **1=Exfiltration** (Controls 0.11 cfs)**Primary OutFlow** Max=0.01 cfs @ 15.35 hrs HW=56.74' (Free Discharge)↑ **2=Culvert** (Passes 0.01 cfs of 8.19 cfs potential flow)↑ **3=Orifice/Grate** (Orifice Controls 0.01 cfs @ 0.66 fps)↑ **4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 52P: CB 20**

Inflow Area = 0.321 ac, 29.26% Impervious, Inflow Depth > 0.22" for 2-Year event

Inflow = 0.04 cfs @ 12.32 hrs, Volume= 0.006 af

Outflow = 0.04 cfs @ 12.32 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min

Primary = 0.04 cfs @ 12.32 hrs, Volume= 0.006 af

Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.20' @ 12.32 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.04 cfs @ 12.32 hrs HW=51.20' (Free Discharge)↑ **1=Culvert** (Inlet Controls 0.04 cfs @ 0.86 fps)**Summary for Pond 53P: CB 21**

Inflow Area = 0.525 ac, 65.45% Impervious, Inflow Depth > 1.14" for 2-Year event

Inflow = 0.73 cfs @ 12.10 hrs, Volume= 0.050 af

Outflow = 0.73 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary = 0.73 cfs @ 12.10 hrs, Volume= 0.050 af

Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.60' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.10 hrs HW=51.60' (Free Discharge)↑ **1=Culvert** (Barrel Controls 0.73 cfs @ 2.69 fps)

Summary for Pond 54P: DMH 15

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 0.85" for 2-Year event
 Inflow = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af
 Outflow = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af
 Routed to Pond 55P : DMH 16

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.42' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.80'	12.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.80' / 50.28' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.03 cfs @ 12.10 hrs HW=51.42' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.03 cfs @ 2.85 fps)

Summary for Pond 55P: DMH 16

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 0.85" for 2-Year event
 Inflow = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af
 Outflow = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af
 Routed to Pond 56P : Inf. Basin 3G

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.83' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.18'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.18' / 50.00' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.03 cfs @ 12.10 hrs HW=50.83' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.03 cfs @ 2.70 fps)

Summary for Pond 56P: Inf. Basin 3G

Inflow Area = 1.599 ac, 37.88% Impervious, Inflow Depth > 0.56" for 2-Year event
 Inflow = 1.03 cfs @ 12.10 hrs, Volume= 0.075 af
 Outflow = 0.33 cfs @ 12.48 hrs, Volume= 0.075 af, Atten= 68%, Lag= 22.5 min
 Discarded = 0.33 cfs @ 12.48 hrs, Volume= 0.075 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 50.55' @ 12.48 hrs Surf.Area= 1,698 sf Storage= 742 cf

Plug-Flow detention time= 17.5 min calculated for 0.075 af (100% of inflow)

Center-of-Mass det. time= 16.8 min (832.6 - 815.8)

Volume	Invert	Avail.Storage	Storage Description
#1	50.00'	11,770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	985	0	0
51.00	2,275	1,630	1,630
52.00	2,983	2,629	4,259
53.00	3,742	3,363	7,622
54.00	4,554	4,148	11,770

Device	Routing	Invert	Outlet Devices
#1	Discarded	50.00'	7.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 48.00'
#2	Secondary	53.50'	6.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Discarded OutFlow Max=0.33 cfs @ 12.48 hrs HW=50.55' (Free Discharge)↑**1=Exfiltration** (Controls 0.33 cfs)**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=50.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 60P: SUB. INF 8**

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 1.91" for 2-Year event
 Inflow = 1.98 cfs @ 12.09 hrs, Volume= 0.136 af
 Outflow = 1.49 cfs @ 12.21 hrs, Volume= 0.089 af, Atten= 25%, Lag= 7.1 min
 Discarded = 0.03 cfs @ 9.30 hrs, Volume= 0.027 af
 Primary = 1.46 cfs @ 12.21 hrs, Volume= 0.062 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.86' @ 12.21 hrs Surf.Area= 1,170 sf Storage= 2,177 cf

Plug-Flow detention time= 111.3 min calculated for 0.089 af (65% of inflow)

Center-of-Mass det. time= 41.7 min (820.4 - 778.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.00'	1,076 cf	25.25'W x 46.34'L x 3.50'H Field A 4,095 cf Overall - 1,405 cf Embedded = 2,690 cf x 40.0% Voids
#2A	60.50'	1,405 cf	ADS_StormTech SC-740 b +Cap x 30 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

30 Chambers in 5 Rows

Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf

2,481 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	60.00'	12.0" Round Culvert X 2.00 L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.50' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	62.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 9.30 hrs HW=60.04' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=1.34 cfs @ 12.21 hrs HW=62.84' (Free Discharge)

↑**2=Culvert** (Passes 1.34 cfs of 9.14 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 1.34 cfs @ 1.39 fps)

Summary for Pond 61P: CB 8

Inflow Area = 0.117 ac, 57.03% Impervious, Inflow Depth > 0.86" for 2-Year event
 Inflow = 0.12 cfs @ 12.10 hrs, Volume= 0.008 af
 Outflow = 0.12 cfs @ 12.10 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.12 cfs @ 12.10 hrs, Volume= 0.008 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.59' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.10 hrs HW=50.59' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.12 cfs @ 1.17 fps)

Summary for Pond 62P: CB 66

Inflow Area = 0.149 ac, 73.97% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.027 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.027 af
 Routed to Pond 64P : DMH 47

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.50'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.50' / 60.30' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.38 cfs @ 12.09 hrs HW=60.84' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.38 cfs @ 1.57 fps)**Summary for Pond 63P: CB 67**

Inflow Area = 0.034 ac, 87.02% Impervious, Inflow Depth > 2.45" for 2-Year event
Inflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af
Outflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af
Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.60'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.60' / 60.30' S= 0.0214 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=60.76' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.09 cfs @ 1.09 fps)**Summary for Pond 64P: DMH 47**

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 2.06" for 2-Year event
Inflow = 1.50 cfs @ 12.09 hrs, Volume= 0.105 af
Outflow = 1.50 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 1.50 cfs @ 12.09 hrs, Volume= 0.105 af
Routed to Pond 68P : Sub. Inf. 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.90' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=60.87' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.47 cfs @ 3.12 fps)

Summary for Pond 65P: DMH 49

Inflow Area = 0.253 ac, 88.87% Impervious, Inflow Depth > 2.49" for 2-Year event
 Inflow = 0.72 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.72 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.72 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.70'	12.0" Round Culvert L= 59.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.70' / 58.00' S= 0.0119 ' S= 0.0119 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=59.18' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.70 cfs @ 1.86 fps)

Summary for Pond 66P: CB 68

Inflow Area = 0.163 ac, 82.69% Impervious, Inflow Depth > 2.36" for 2-Year event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af
 Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.30' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=59.29' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.43 cfs @ 2.24 fps)

Summary for Pond 67P: CB 69

Inflow Area = 0.090 ac, 100.00% Impervious, Inflow Depth > 2.73" for 2-Year event
 Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.021 af
 Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.021 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.20' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=59.19' (Free Discharge)

↑1=Culvert (Barrel Controls 0.26 cfs @ 2.03 fps)

Summary for Pond 68P: Sub. Inf. 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 2.06" for 2-Year event
 Inflow = 1.50 cfs @ 12.09 hrs, Volume= 0.105 af
 Outflow = 0.66 cfs @ 12.35 hrs, Volume= 0.069 af, Atten= 56%, Lag= 15.4 min
 Discarded = 0.05 cfs @ 12.35 hrs, Volume= 0.038 af
 Primary = 0.61 cfs @ 12.35 hrs, Volume= 0.031 af
 Routed to Pond 209P : level spreader 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.56' @ 12.35 hrs Surf.Area= 1,065 sf Storage= 1,953 cf

Plug-Flow detention time= 132.8 min calculated for 0.069 af (66% of inflow)
 Center-of-Mass det. time= 63.6 min (835.3 - 771.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	606 cf	35.50'W x 30.00'L x 3.67'H Field A 3,909 cf Overall - 2,392 cf Embedded = 1,516 cf x 40.0% Voids
#2A	59.50'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 4 Rows
2,206 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 56.00'
#2	Primary	59.30'	15.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.30' / 57.00' S= 0.0324 ' S= 0.0324 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	61.20'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

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Discarded OutFlow Max=0.05 cfs @ 12.35 hrs HW=61.56' (Free Discharge)↑ **1=Exfiltration** (Controls 0.05 cfs)**Primary OutFlow** Max=0.60 cfs @ 12.35 hrs HW=61.56' (Free Discharge)↑ **2=Culvert** (Passes 0.60 cfs of 5.97 cfs potential flow)↑ **3=Orifice/Grate** (Orifice Controls 0.60 cfs @ 2.04 fps)**Summary for Pond 69P: CB 72**

Inflow Area = 0.245 ac, 72.86% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.95' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=61.94' (Free Discharge)↑ **1=Culvert** (Inlet Controls 0.60 cfs @ 1.79 fps)**Summary for Pond 70P: CB 73**

Inflow Area = 0.154 ac, 76.98% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 0.028 af
 Outflow = 0.40 cfs @ 12.09 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.40 cfs @ 12.09 hrs, Volume= 0.028 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=61.85' (Free Discharge)↑ **1=Culvert** (Inlet Controls 0.39 cfs @ 1.59 fps)

Summary for Pond 71P: DMH 54

Inflow Area = 0.399 ac, 74.45% Impervious, Inflow Depth > 2.12" for 2-Year event
 Inflow = 1.01 cfs @ 12.09 hrs, Volume= 0.070 af
 Outflow = 1.01 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.01 cfs @ 12.09 hrs, Volume= 0.070 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.70' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.99 cfs @ 12.09 hrs HW=61.41' (Free Discharge)
 ↑ **1=Culvert** (Barrel Controls 0.99 cfs @ 2.80 fps)

Summary for Pond 72P: Sub. Inf. 7

Inflow Area = 1.384 ac, 72.05% Impervious, Inflow Depth > 2.10" for 2-Year event
 Inflow = 3.48 cfs @ 12.09 hrs, Volume= 0.242 af
 Outflow = 2.85 cfs @ 12.17 hrs, Volume= 0.167 af, Atten= 18%, Lag= 4.7 min
 Discarded = 0.11 cfs @ 12.17 hrs, Volume= 0.086 af
 Primary = 2.74 cfs @ 12.17 hrs, Volume= 0.081 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.55' @ 12.17 hrs Surf.Area= 1,936 sf Storage= 3,724 cf

Plug-Flow detention time= 120.0 min calculated for 0.167 af (69% of inflow)
 Center-of-Mass det. time= 52.7 min (823.0 - 770.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.30'	1,048 cf	44.00'W x 44.00'L x 3.67'H Field A 7,105 cf Overall - 4,486 cf Embedded = 2,620 cf x 40.0% Voids
#2A	60.80'	3,000 cf	Shea Leaching Chamber 8x14x2.7 x 15 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 15 Chambers in 5 Rows
		4,048 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.30'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 58.10'
#2	Primary	58.00'	18.0" Round Culvert L= 32.0' CPP, projecting, no headwall, Ke= 0.900

#3 Device 2 63.10' Inlet / Outlet Invert= 58.00' / 52.50' S= 0.1719 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long x 0.5' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00
Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.11 cfs @ 12.17 hrs HW=63.45' (Free Discharge)

↑**1=Exfiltration** (Controls 0.11 cfs)

Primary OutFlow Max=2.39 cfs @ 12.17 hrs HW=63.45' (Free Discharge)

↑**2=Culvert** (Passes 2.39 cfs of 14.56 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 2.39 cfs @ 1.71 fps)

Summary for Pond 73P: CB 64

Inflow Area = 0.252 ac, 65.83% Impervious, Inflow Depth > 1.99" for 2-Year event
Inflow = 0.61 cfs @ 12.09 hrs, Volume= 0.042 af
Outflow = 0.61 cfs @ 12.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 12.09 hrs, Volume= 0.042 af
Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=61.55' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.56 fps)

Summary for Pond 74P: CB 65

Inflow Area = 0.174 ac, 65.05% Impervious, Inflow Depth > 1.99" for 2-Year event
Inflow = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af
Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.46' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=61.46' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.41 cfs @ 1.61 fps)

Summary for Pond 75P: DMH 46

Inflow Area = 0.426 ac, 65.51% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.071 af
 Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.071 af
 Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 118.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.20' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=61.41' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.00 cfs @ 2.86 fps)

Summary for Pond 76P: CB 70

Inflow Area = 0.189 ac, 71.07% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.47 cfs @ 12.09 hrs, Volume= 0.033 af
 Outflow = 0.47 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.47 cfs @ 12.09 hrs, Volume= 0.033 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.09 hrs HW=58.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.46 cfs @ 1.66 fps)

Summary for Pond 77P: CB 71

Inflow Area = 0.098 ac, 95.31% Impervious, Inflow Depth > 2.45" for 2-Year event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=58.49' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.27 cfs @ 1.44 fps)

Summary for Pond 78P: DMH 50

Inflow Area = 0.540 ac, 83.81% Impervious, Inflow Depth > 2.34" for 2-Year event
 Inflow = 1.46 cfs @ 12.09 hrs, Volume= 0.105 af
 Outflow = 1.46 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.46 cfs @ 12.09 hrs, Volume= 0.105 af
 Routed to Pond 79P : DMH 51

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.90'	18.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.90' / 57.70' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=58.53' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.43 cfs @ 2.97 fps)

Summary for Pond 79P: DMH 51

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 2.42" for 2-Year event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af
 Outflow = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af
 Routed to Pond 80P : DMH 52

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.60'	18.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.60' / 56.91' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.86 cfs @ 12.09 hrs HW=58.33' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.86 cfs @ 3.18 fps)

Summary for Pond 80P: DMH 52

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 2.42" for 2-Year event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af
 Outflow = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af
 Routed to Pond 241P : Sub. Inf. 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.81'	18.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.81' / 56.27' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.86 cfs @ 12.09 hrs HW=57.53' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.86 cfs @ 3.22 fps)

Summary for Pond 83P: CB 86

Inflow Area = 0.178 ac, 72.79% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.38' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=58.37' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.43 cfs @ 1.64 fps)

Summary for Pond 84P: CB 87

Inflow Area = 0.189 ac, 78.29% Impervious, Inflow Depth > 2.26" for 2-Year event
 Inflow = 0.50 cfs @ 12.09 hrs, Volume= 0.036 af
 Outflow = 0.50 cfs @ 12.09 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.09 hrs, Volume= 0.036 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 58.40' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=58.40' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.49 cfs @ 1.69 fps)**Summary for Pond 85P: DMH 65**

Inflow Area = 0.367 ac, 75.63% Impervious, Inflow Depth > 2.18" for 2-Year event
Inflow = 0.95 cfs @ 12.09 hrs, Volume= 0.067 af
Outflow = 0.95 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.95 cfs @ 12.09 hrs, Volume= 0.067 af
Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.26' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.65'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.65' / 57.55' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.93 cfs @ 12.09 hrs HW=58.25' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.93 cfs @ 2.68 fps)**Summary for Pond 86P: Sub. Inf. 6**

Inflow Area = 0.745 ac, 45.50% Impervious, Inflow Depth > 1.61" for 2-Year event
Inflow = 1.47 cfs @ 12.09 hrs, Volume= 0.100 af
Outflow = 1.05 cfs @ 12.21 hrs, Volume= 0.072 af, Atten= 29%, Lag= 7.2 min
Discarded = 0.05 cfs @ 12.21 hrs, Volume= 0.034 af
Primary = 1.00 cfs @ 12.21 hrs, Volume= 0.038 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.81' @ 12.21 hrs Surf.Area= 804 sf Storage= 1,466 cf

Plug-Flow detention time= 113.0 min calculated for 0.072 af (72% of inflow)

Center-of-Mass det. time= 48.4 min (836.2 - 787.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	61.00'	750 cf	20.50'W x 39.22'L x 3.50'H Field A 2,814 cf Overall - 940 cf Embedded = 1,874 cf x 40.0% Voids
#2A	61.50'	940 cf	ADS_StormTech SC-740 b +Cap x 20 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 20 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		1,690 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	61.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 59.00'
#2	Primary	61.00'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 57.00' S= 0.0381 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	63.50'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.05 cfs @ 12.21 hrs HW=63.79' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.05 cfs)

Primary OutFlow Max=0.91 cfs @ 12.21 hrs HW=63.79' (Free Discharge)

↑ **2=Culvert** (Passes 0.91 cfs of 4.52 cfs potential flow)

↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 0.91 cfs @ 1.55 fps)

Summary for Pond 89P: CB 74

Inflow Area = 0.052 ac, 80.20% Impervious, Inflow Depth > 2.26" for 2-Year event
 Inflow = 0.14 cfs @ 12.09 hrs, Volume= 0.010 af
 Outflow = 0.14 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.14 cfs @ 12.09 hrs, Volume= 0.010 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.14 cfs @ 12.09 hrs HW=64.71' (Free Discharge)

↑ **1=Culvert** (Barrel Controls 0.14 cfs @ 1.74 fps)

Summary for Pond 90P: CB 75

Inflow Area = 0.104 ac, 76.91% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af
 Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=64.80' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.26 cfs @ 2.01 fps)

Summary for Pond 91P: DMH 55

Inflow Area = 0.156 ac, 78.01% Impervious, Inflow Depth > 2.20" for 2-Year event
 Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af
 Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af
 Routed to Pond 86P : Sub. Inf. 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.30'	12.0" Round Culvert L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.30' / 62.10' S= 0.0204 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=64.65' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.40 cfs @ 1.60 fps)

Summary for Pond 94P: CB 77

Inflow Area = 0.204 ac, 71.21% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af
 Outflow = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.51 cfs @ 12.09 hrs, Volume= 0.035 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.50 cfs @ 12.09 hrs HW=63.07' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.50 cfs @ 2.33 fps)

Summary for Pond 95P: CB 76

Inflow Area = 0.141 ac, 70.69% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.024 af
 Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.35 cfs @ 12.09 hrs, Volume= 0.024 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=62.99' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.34 cfs @ 2.15 fps)

Summary for Pond 96P: DMH 56

Inflow Area = 0.985 ac, 71.08% Impervious, Inflow Depth > 2.09" for 2-Year event
 Inflow = 2.47 cfs @ 12.09 hrs, Volume= 0.172 af
 Outflow = 2.47 cfs @ 12.09 hrs, Volume= 0.172 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.47 cfs @ 12.09 hrs, Volume= 0.172 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.00'	18.0" Round Culvert L= 134.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.00' / 61.10' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.41 cfs @ 12.09 hrs HW=62.82' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.41 cfs @ 2.44 fps)

Summary for Pond 97P: Sub. INF 9

Inflow Area = 1.214 ac, 72.06% Impervious, Inflow Depth > 2.10" for 2-Year event
 Inflow = 3.05 cfs @ 12.09 hrs, Volume= 0.212 af
 Outflow = 1.36 cfs @ 12.30 hrs, Volume= 0.122 af, Atten= 55%, Lag= 12.7 min
 Discarded = 0.03 cfs @ 8.40 hrs, Volume= 0.031 af
 Primary = 1.33 cfs @ 12.30 hrs, Volume= 0.090 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.24' @ 12.30 hrs Surf.Area= 1,260 sf Storage= 4,201 cf

Plug-Flow detention time= 134.2 min calculated for 0.122 af (57% of inflow)
 Center-of-Mass det. time= 56.5 min (826.5 - 770.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	514 cf	42.00'W x 30.00'L x 5.17'H Field A 6,514 cf Overall - 5,230 cf Embedded = 1,284 cf x 40.0% Voids
#2A	59.50'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 5 Rows
		4,514 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	57.50'	15.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.50' / 53.00' S= 0.1500 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	63.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 8.40 hrs HW=59.05' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=1.32 cfs @ 12.30 hrs HW=63.24' (Free Discharge)
 ↑ **2=Culvert** (Passes 1.32 cfs of 10.55 cfs potential flow)
 ↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 1.32 cfs @ 1.38 fps)

Summary for Pond 98P: DMH 61

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 2.07" for 2-Year event
 Inflow = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af
 Outflow = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af
 Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 58.30' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.05 cfs @ 12.09 hrs HW=60.55' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.05 cfs @ 2.33 fps)

Summary for Pond 99P: CB 81

Inflow Area = 0.258 ac, 68.08% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.62 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.62 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=63.46' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.61 cfs @ 2.43 fps)

Summary for Pond 100P: CB 80

Inflow Area = 0.383 ac, 73.17% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af
 Outflow = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.99 cfs @ 12.09 hrs, Volume= 0.069 af
 Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=63.61' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.96 cfs @ 2.69 fps)

Summary for Pond 101P: DMH 59

Inflow Area = 0.640 ac, 71.12% Impervious, Inflow Depth > 2.10" for 2-Year event
 Inflow = 1.61 cfs @ 12.09 hrs, Volume= 0.112 af
 Outflow = 1.61 cfs @ 12.09 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.61 cfs @ 12.09 hrs, Volume= 0.112 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.79'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.79' / 62.10' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.57 cfs @ 12.09 hrs HW=63.45' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.57 cfs @ 3.12 fps)

Summary for Pond 102P: CB 93

Inflow Area = 0.178 ac, 69.60% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.031 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=61.80' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.43 cfs @ 2.20 fps)

Summary for Pond 103P: CB 92

Inflow Area = 0.313 ac, 76.83% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 0.81 cfs @ 12.09 hrs, Volume= 0.057 af
 Outflow = 0.81 cfs @ 12.09 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.81 cfs @ 12.09 hrs, Volume= 0.057 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.79 cfs @ 12.09 hrs HW=61.96' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.79 cfs @ 2.54 fps)

Summary for Pond 104P: CB 83

Inflow Area = 0.343 ac, 64.21% Impervious, Inflow Depth > 1.91" for 2-Year event
 Inflow = 0.80 cfs @ 12.09 hrs, Volume= 0.055 af
 Outflow = 0.80 cfs @ 12.09 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.80 cfs @ 12.09 hrs, Volume= 0.055 af
 Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.78 cfs @ 12.09 hrs HW=61.55' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.78 cfs @ 2.57 fps)

Summary for Pond 105P: CB 82

Inflow Area = 0.504 ac, 74.80% Impervious, Inflow Depth > 2.17" for 2-Year event
 Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.091 af
 Outflow = 1.30 cfs @ 12.09 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.30 cfs @ 12.09 hrs, Volume= 0.091 af
 Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.75' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=61.73' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.27 cfs @ 2.87 fps)

Summary for Pond 106P: DMH 60

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 2.07" for 2-Year event
 Inflow = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af
 Outflow = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.10 cfs @ 12.09 hrs, Volume= 0.146 af
 Routed to Pond 98P : DMH 61

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	18.0" Round Culvert L= 110.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 59.90' S= 0.0082 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.05 cfs @ 12.09 hrs HW=61.55' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.05 cfs @ 2.33 fps)

Summary for Pond 107P: CB

Inflow Area = 0.358 ac, 66.21% Impervious, Inflow Depth > 1.97" for 2-Year event
 Inflow = 0.85 cfs @ 12.09 hrs, Volume= 0.059 af
 Outflow = 0.85 cfs @ 12.09 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.85 cfs @ 12.09 hrs, Volume= 0.059 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=60.53' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.84 cfs @ 1.96 fps)

Summary for Pond 108P: CB 88

Inflow Area = 0.160 ac, 74.59% Impervious, Inflow Depth > 2.15" for 2-Year event
 Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af
 Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.029 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.0909 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=60.35' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.40 cfs @ 1.60 fps)

Summary for Pond 109P: CB 79

Inflow Area = 0.457 ac, 64.44% Impervious, Inflow Depth > 1.91" for 2-Year event
Inflow = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af
Outflow = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af
Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.04 cfs @ 12.09 hrs HW=62.06' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.04 cfs @ 2.68 fps)

Summary for Pond 110P: CB 78

Inflow Area = 0.396 ac, 64.26% Impervious, Inflow Depth > 1.91" for 2-Year event
Inflow = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af
Outflow = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
Primary = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af
Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.96' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	15.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=61.95' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.90 cfs @ 2.52 fps)

Summary for Pond 111P: DMH 57

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 1.91" for 2-Year event
 Inflow = 1.98 cfs @ 12.09 hrs, Volume= 0.136 af
 Outflow = 1.98 cfs @ 12.09 hrs, Volume= 0.136 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.98 cfs @ 12.09 hrs, Volume= 0.136 af
 Routed to Pond 60P : SUB. INF 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	24.0" Round Culvert L= 74.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.60' S= 0.0054 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.94 cfs @ 12.09 hrs HW=61.67' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.94 cfs @ 3.12 fps)

Summary for Pond 112P: CB 45

Inflow Area = 0.290 ac, 58.56% Impervious, Inflow Depth > 1.67" for 2-Year event
 Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.06' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=58.05' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.43 fps)

Summary for Pond 113P: CB 95

Inflow Area = 0.189 ac, 91.26% Impervious, Inflow Depth > 2.55" for 2-Year event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 0.040 af
 Outflow = 0.54 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.54 cfs @ 12.09 hrs, Volume= 0.040 af
 Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.44' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.09 hrs HW=60.44' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.53 cfs @ 2.36 fps)

Summary for Pond 114P: CB 94

Inflow Area = 0.285 ac, 80.60% Impervious, Inflow Depth > 2.26" for 2-Year event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.054 af
Outflow = 0.76 cfs @ 12.09 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
Primary = 0.76 cfs @ 12.09 hrs, Volume= 0.054 af
Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=60.53' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.74 cfs @ 2.54 fps)

Summary for Pond 115P: CB 91

Inflow Area = 0.275 ac, 75.65% Impervious, Inflow Depth > 2.17" for 2-Year event
Inflow = 0.71 cfs @ 12.09 hrs, Volume= 0.050 af
Outflow = 0.71 cfs @ 12.09 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.09 hrs, Volume= 0.050 af
Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0833 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=59.71' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.69 cfs @ 1.86 fps)

Summary for Pond 116P: CB 90

Inflow Area = 0.112 ac, 84.21% Impervious, Inflow Depth > 2.36" for 2-Year event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 0.022 af
 Outflow = 0.31 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.31 cfs @ 12.09 hrs, Volume= 0.022 af
 Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0714 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.09 hrs HW=59.53' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.30 cfs @ 1.48 fps)

Summary for Pond 117P: DMH 69

Inflow Area = 0.491 ac, 74.21% Impervious, Inflow Depth > 2.14" for 2-Year event
 Inflow = 1.25 cfs @ 12.09 hrs, Volume= 0.088 af
 Outflow = 1.25 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.25 cfs @ 12.09 hrs, Volume= 0.088 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.26'	18.0" Round Culvert L= 140.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.26' / 58.56' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.22 cfs @ 12.09 hrs HW=59.83' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.22 cfs @ 2.92 fps)

Summary for Pond 118P: DMH 70

Inflow Area = 0.474 ac, 84.85% Impervious, Inflow Depth > 2.38" for 2-Year event
 Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.094 af
 Outflow = 1.30 cfs @ 12.09 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.30 cfs @ 12.09 hrs, Volume= 0.094 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.52' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 59.36' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=60.51' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.27 cfs @ 2.98 fps)

Summary for Pond 119P: DMH 66

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 2.52 cfs @ 12.09 hrs, Volume= 0.175 af
 Outflow = 2.52 cfs @ 12.09 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.52 cfs @ 12.09 hrs, Volume= 0.175 af
 Routed to Pond 251P : Sub. Inf. 10

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.33' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.46'	18.0" Round Culvert L= 102.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.46' / 57.95' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.46 cfs @ 12.09 hrs HW=59.32' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.46 cfs @ 3.40 fps)

Summary for Pond 120P: DMH 67

Inflow Area = 0.388 ac, 78.13% Impervious, Inflow Depth > 2.23" for 2-Year event
 Inflow = 1.02 cfs @ 12.09 hrs, Volume= 0.072 af
 Outflow = 1.02 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.02 cfs @ 12.09 hrs, Volume= 0.072 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.85'	24.0" Round Culvert L= 40.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.85' / 57.00' S= 0.0213 ' S= 0.0213 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.99 cfs @ 12.09 hrs HW=58.31' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.99 cfs @ 1.82 fps)

Summary for Pond 122P: CB 46

Inflow Area = 0.275 ac, 72.42% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 0.69 cfs @ 12.09 hrs, Volume= 0.048 af
 Outflow = 0.69 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.69 cfs @ 12.09 hrs, Volume= 0.048 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.11' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.09 hrs HW=58.10' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.67 cfs @ 2.41 fps)

Summary for Pond 123P: DMH 31

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 1.87" for 2-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Routed to Pond 124P : DMH 32

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.39'	18.0" Round Culvert L= 78.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.39' / 56.61' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.26 cfs @ 12.09 hrs HW=57.96' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.26 cfs @ 2.03 fps)

Summary for Pond 124P: DMH 32

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 1.87" for 2-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.57'	18.0" Round Culvert L= 75.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.57' / 54.70' S= 0.0249 ' S= 0.0249 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.26 cfs @ 12.09 hrs HW=57.14' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.26 cfs @ 2.03 fps)

Summary for Pond 125P: CB 36

Inflow Area = 0.196 ac, 76.76% Impervious, Inflow Depth > 1.53" for 2-Year event
Inflow = 0.37 cfs @ 12.09 hrs, Volume= 0.025 af
Outflow = 0.37 cfs @ 12.09 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.37 cfs @ 12.09 hrs, Volume= 0.025 af
Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.36 cfs @ 12.09 hrs HW=54.81' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.36 cfs @ 2.11 fps)

Summary for Pond 126P: CB 37

Inflow Area = 0.225 ac, 79.18% Impervious, Inflow Depth > 1.67" for 2-Year event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.031 af
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.031 af
Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.86' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=54.86' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.45 cfs @ 2.21 fps)

Summary for Pond 127P: DMH 26

Inflow Area = 0.421 ac, 78.05% Impervious, Inflow Depth > 1.60" for 2-Year event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 0.056 af
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 0.056 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.25'	12.0" Round Culvert L= 84.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.25' / 52.80' S= 0.0173 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=54.78' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.82 cfs @ 1.95 fps)

Summary for Pond 129P: CB 34

Inflow Area = 0.260 ac, 54.23% Impervious, Inflow Depth > 0.77" for 2-Year event
 Inflow = 0.23 cfs @ 12.10 hrs, Volume= 0.017 af
 Outflow = 0.23 cfs @ 12.10 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.23 cfs @ 12.10 hrs, Volume= 0.017 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.47' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.23 cfs @ 12.10 hrs HW=55.47' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.23 cfs @ 2.02 fps)

Summary for Pond 131P: CB 35

Inflow Area = 0.210 ac, 39.72% Impervious, Inflow Depth > 0.40" for 2-Year event
 Inflow = 0.07 cfs @ 12.12 hrs, Volume= 0.007 af
 Outflow = 0.07 cfs @ 12.12 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.07 cfs @ 12.12 hrs, Volume= 0.007 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.35' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.12 hrs HW=55.34' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.07 cfs @ 1.02 fps)

Summary for Pond 132P: CB 33

Inflow Area = 0.535 ac, 41.20% Impervious, Inflow Depth > 0.44" for 2-Year event
Inflow = 0.22 cfs @ 12.12 hrs, Volume= 0.020 af
Outflow = 0.22 cfs @ 12.12 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 12.12 hrs, Volume= 0.020 af
Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.46' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.12 hrs HW=55.45' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.21 cfs @ 1.34 fps)

Summary for Pond 133P: DMH 24

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 0.52" for 2-Year event
Inflow = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af
Outflow = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af
Routed to Pond 246P : Sub. Inf. 3D

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.04' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.65'	18.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.65' / 54.50' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.50 cfs @ 12.11 hrs HW=55.03' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.50 cfs @ 2.14 fps)

Summary for Pond 134P: DMH 25

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 0.52" for 2-Year event
 Inflow = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af
 Outflow = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af
 Routed to Pond 133P : DMH 24

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.39' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.00'	18.0" Round Culvert L= 93.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.00' / 54.65' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.50 cfs @ 12.11 hrs HW=55.39' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.50 cfs @ 2.09 fps)

Summary for Pond 136P: CB 38

Inflow Area = 0.180 ac, 66.23% Impervious, Inflow Depth > 1.14" for 2-Year event
 Inflow = 0.25 cfs @ 12.10 hrs, Volume= 0.017 af
 Outflow = 0.25 cfs @ 12.10 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.10 hrs, Volume= 0.017 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.79' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.10 hrs HW=53.78' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.25 cfs @ 2.03 fps)

Summary for Pond 137P: CB 44

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 1.67" for 2-Year event
 Inflow = 0.52 cfs @ 12.09 hrs, Volume= 0.035 af
 Outflow = 0.52 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.52 cfs @ 12.09 hrs, Volume= 0.035 af
 Routed to Pond 239P : INF 3C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.51 cfs @ 12.09 hrs HW=53.90' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.51 cfs @ 1.71 fps)

Summary for Pond 138P: CB 39

Inflow Area = 0.145 ac, 72.58% Impervious, Inflow Depth > 1.39" for 2-Year event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 0.017 af
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 0.017 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=53.78' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.24 cfs @ 2.02 fps)

Summary for Pond 139P: DMH 28

Inflow Area = 0.325 ac, 69.06% Impervious, Inflow Depth > 1.25" for 2-Year event
 Inflow = 0.50 cfs @ 12.10 hrs, Volume= 0.034 af
 Outflow = 0.50 cfs @ 12.10 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.10 hrs, Volume= 0.034 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.72' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.30'	12.0" Round Culvert L= 99.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.30' / 52.80' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.10 hrs HW=53.71' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.49 cfs @ 2.38 fps)

Summary for Pond 142P: CB 40

Inflow Area = 0.409 ac, 65.98% Impervious, Inflow Depth > 1.14" for 2-Year event
 Inflow = 0.57 cfs @ 12.10 hrs, Volume= 0.039 af
 Outflow = 0.57 cfs @ 12.10 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.57 cfs @ 12.10 hrs, Volume= 0.039 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.98' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.10 hrs HW=50.97' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.57 cfs @ 2.47 fps)

Summary for Pond 143P: CB 41

Inflow Area = 0.577 ac, 66.17% Impervious, Inflow Depth > 1.14" for 2-Year event
 Inflow = 0.80 cfs @ 12.10 hrs, Volume= 0.055 af
 Outflow = 0.80 cfs @ 12.10 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.80 cfs @ 12.10 hrs, Volume= 0.055 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.08' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.10 hrs HW=51.07' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.80 cfs @ 2.65 fps)

Summary for Pond 144P: DMH 30

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 1.14" for 2-Year event
 Inflow = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af
 Outflow = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af
 Routed to Pond 145P : DMH 29

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.96' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.33'	18.0" Round Culvert L= 73.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.33' / 49.96' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.36 cfs @ 12.10 hrs HW=50.95' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.36 cfs @ 2.90 fps)

Summary for Pond 145P: DMH 29

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 1.14" for 2-Year event
Inflow = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af
Outflow = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
Primary = 1.37 cfs @ 12.10 hrs, Volume= 0.093 af
Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.46' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.86'	18.0" Round Culvert L= 95.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.86' / 49.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.36 cfs @ 12.10 hrs HW=50.46' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.36 cfs @ 2.08 fps)

Summary for Pond 147P: CB 28

Inflow Area = 0.372 ac, 68.57% Impervious, Inflow Depth > 1.24" for 2-Year event
Inflow = 0.57 cfs @ 12.10 hrs, Volume= 0.038 af
Outflow = 0.57 cfs @ 12.10 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.10 hrs, Volume= 0.038 af
Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.66' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.56 cfs @ 12.10 hrs HW=54.66' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.56 cfs @ 2.34 fps)

Summary for Pond 148P: CB 43

Inflow Area = 0.196 ac, 80.21% Impervious, Inflow Depth > 1.67" for 2-Year event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
 Outflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
 Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	12.0" Round Culvert L= 68.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.00' / 49.00' S= 0.0441 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=52.35' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.40 cfs @ 1.60 fps)

Summary for Pond 149P: CB 29

Inflow Area = 0.399 ac, 65.93% Impervious, Inflow Depth > 1.20" for 2-Year event
 Inflow = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af
 Outflow = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af
 Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.66' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.10 hrs HW=54.65' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.58 cfs @ 2.48 fps)

Summary for Pond 150P: DMH 22

Inflow Area = 0.771 ac, 67.20% Impervious, Inflow Depth > 1.22" for 2-Year event
 Inflow = 1.15 cfs @ 12.10 hrs, Volume= 0.078 af
 Outflow = 1.15 cfs @ 12.10 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.15 cfs @ 12.10 hrs, Volume= 0.078 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.53' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.95'	15.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.95' / 53.23' S= 0.0144 ' S= 0.0144 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.14 cfs @ 12.10 hrs HW=54.53' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.14 cfs @ 2.05 fps)**Summary for Pond 151P: CB 22**

Inflow Area = 0.159 ac, 74.64% Impervious, Inflow Depth > 1.46" for 2-Year event
Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.019 af
Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.019 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0054 ' S= 0.0054 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=52.62' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.28 cfs @ 1.97 fps)**Summary for Pond 152P: CB 23**

Inflow Area = 0.210 ac, 67.61% Impervious, Inflow Depth > 1.20" for 2-Year event
Inflow = 0.31 cfs @ 12.10 hrs, Volume= 0.021 af
Outflow = 0.31 cfs @ 12.10 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.10 hrs, Volume= 0.021 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.62' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.10 hrs HW=52.62' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.31 cfs @ 2.15 fps)

Summary for Pond 153P: DMH 17

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 1.37" for 2-Year event
 Inflow = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af
 Outflow = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af
 Routed to Pond 204P : DMH 18

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.99' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.05'	18.0" Round Culvert L= 94.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.05' / 51.55' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.88 cfs @ 12.09 hrs HW=52.98' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.88 cfs @ 3.56 fps)

Summary for Pond 154P: CB 18

Inflow Area = 0.207 ac, 76.76% Impervious, Inflow Depth > 1.53" for 2-Year event
 Inflow = 0.39 cfs @ 12.09 hrs, Volume= 0.026 af
 Outflow = 0.39 cfs @ 12.09 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.39 cfs @ 12.09 hrs, Volume= 0.026 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.61' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.38 cfs @ 12.09 hrs HW=53.61' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.38 cfs @ 2.27 fps)

Summary for Pond 155P: CB 27

Inflow Area = 0.220 ac, 74.64% Impervious, Inflow Depth > 1.46" for 2-Year event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
 Outflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
 Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=54.97' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.39 cfs @ 2.23 fps)

Summary for Pond 156P: CB 26

Inflow Area = 0.108 ac, 90.07% Impervious, Inflow Depth > 2.17" for 2-Year event
Inflow = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af
Outflow = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.09 hrs, Volume= 0.020 af
Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=54.90' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.27 cfs @ 2.07 fps)

Summary for Pond 157P: DMH 21

Inflow Area = 0.328 ac, 79.72% Impervious, Inflow Depth > 1.69" for 2-Year event
Inflow = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af
Outflow = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af
Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.87' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.40'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.40' / 53.50' S= 0.0105 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=54.87' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.66 cfs @ 1.84 fps)

Summary for Pond 158P: CB 24

Inflow Area = 0.117 ac, 70.43% Impervious, Inflow Depth > 1.32" for 2-Year event
 Inflow = 0.19 cfs @ 12.10 hrs, Volume= 0.013 af
 Outflow = 0.19 cfs @ 12.10 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.19 cfs @ 12.10 hrs, Volume= 0.013 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.85' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.10 hrs HW=53.85' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.19 cfs @ 1.87 fps)

Summary for Pond 159P: CB 25

Inflow Area = 0.146 ac, 79.60% Impervious, Inflow Depth > 1.67" for 2-Year event
 Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.020 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.92' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=53.92' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.29 cfs @ 2.06 fps)

Summary for Pond 160P: DMH 20

Inflow Area = 0.591 ac, 77.85% Impervious, Inflow Depth > 1.61" for 2-Year event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 0.079 af
 Outflow = 1.17 cfs @ 12.09 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.17 cfs @ 12.09 hrs, Volume= 0.079 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.10' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.40'	12.0" Round Culvert L= 33.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.40' / 53.23' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=54.10' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.14 cfs @ 2.76 fps)**Summary for Pond 161P: DMH 19**

Inflow Area = 1.362 ac, 71.82% Impervious, Inflow Depth > 1.39" for 2-Year event
Inflow = 2.32 cfs @ 12.09 hrs, Volume= 0.158 af
Outflow = 2.32 cfs @ 12.09 hrs, Volume= 0.158 af, Atten= 0%, Lag= 0.0 min
Primary = 2.32 cfs @ 12.09 hrs, Volume= 0.158 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.93' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.13'	18.0" Round Culvert L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.13' / 52.15' S= 0.0098 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.29 cfs @ 12.09 hrs HW=53.93' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.29 cfs @ 2.40 fps)**Summary for Pond 162P: CB 15**

Inflow Area = 0.390 ac, 63.16% Impervious, Inflow Depth > 1.02" for 2-Year event
Inflow = 0.48 cfs @ 12.10 hrs, Volume= 0.033 af
Outflow = 0.48 cfs @ 12.10 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 12.10 hrs, Volume= 0.033 af
Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.43' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.04'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.04' / 50.84' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.10 hrs HW=51.43' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.48 cfs @ 1.68 fps)

Summary for Pond 163P: CB 14

Inflow Area = 0.311 ac, 63.37% Impervious, Inflow Depth > 1.02" for 2-Year event
 Inflow = 0.39 cfs @ 12.10 hrs, Volume= 0.026 af
 Outflow = 0.39 cfs @ 12.10 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.39 cfs @ 12.10 hrs, Volume= 0.026 af
 Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.43' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.94' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.38 cfs @ 12.10 hrs HW=51.43' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.38 cfs @ 2.07 fps)

Summary for Pond 165P: CB 19

Inflow Area = 0.209 ac, 66.66% Impervious, Inflow Depth > 1.14" for 2-Year event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.56' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=53.55' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.29 cfs @ 2.14 fps)

Summary for Pond 166P: DMH 13

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.16" for 2-Year event
 Inflow = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af
 Outflow = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af
 Routed to Pond 169P : DMH 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.66' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.16'	12.0" Round Culvert L= 92.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.16' / 51.70' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.10 hrs HW=52.65' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.67 cfs @ 2.56 fps)**Summary for Pond 167P: CB 11**

Inflow Area = 0.209 ac, 65.78% Impervious, Inflow Depth > 1.14" for 2-Year event
Inflow = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af
Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.10 hrs, Volume= 0.020 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.09' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0105 ' S= 0.0105 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=51.09' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.29 cfs @ 1.47 fps)**Summary for Pond 168P: CB 10**

Inflow Area = 0.231 ac, 30.05% Impervious, Inflow Depth > 0.25" for 2-Year event
Inflow = 0.03 cfs @ 12.29 hrs, Volume= 0.005 af
Outflow = 0.03 cfs @ 12.29 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.03 cfs @ 12.29 hrs, Volume= 0.005 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.88' @ 12.29 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0182 ' S= 0.0182 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.03 cfs @ 12.29 hrs HW=50.88' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.03 cfs @ 0.83 fps)

Summary for Pond 169P: DMH 12

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.16" for 2-Year event
 Inflow = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af
 Outflow = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.09' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.60'	12.0" Round Culvert L= 107.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.60' / 51.06' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.10 hrs HW=52.09' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.67 cfs @ 2.58 fps)

Summary for Pond 170P: CB 9

Inflow Area = 0.227 ac, 61.54% Impervious, Inflow Depth > 0.97" for 2-Year event
 Inflow = 0.26 cfs @ 12.10 hrs, Volume= 0.018 af
 Outflow = 0.26 cfs @ 12.10 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.26 cfs @ 12.10 hrs, Volume= 0.018 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.68' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 21.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0667 ' S= 0.0667 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.10 hrs HW=50.68' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.26 cfs @ 1.43 fps)

Summary for Pond 171P: DMH 6

Inflow Area = 2.272 ac, 49.70% Impervious, Inflow Depth > 0.73" for 2-Year event
 Inflow = 1.96 cfs @ 12.10 hrs, Volume= 0.138 af
 Outflow = 1.96 cfs @ 12.10 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.96 cfs @ 12.10 hrs, Volume= 0.138 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 49.53' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.80'	18.0" Round Culvert L= 130.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.80' / 47.85' S= 0.0073 ' S= 0.0073 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.96 cfs @ 12.10 hrs HW=49.53' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.96 cfs @ 2.30 fps)**Summary for Pond 172P: CB 16**

Inflow Area = 0.317 ac, 75.85% Impervious, Inflow Depth > 1.53" for 2-Year event
 Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=52.36' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.47 fps)**Summary for Pond 173P: CB 17**

Inflow Area = 0.130 ac, 71.18% Impervious, Inflow Depth > 1.32" for 2-Year event
 Inflow = 0.21 cfs @ 12.10 hrs, Volume= 0.014 af
 Outflow = 0.21 cfs @ 12.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.21 cfs @ 12.10 hrs, Volume= 0.014 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.16' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.10 hrs HW=52.15' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.21 cfs @ 2.01 fps)

Summary for Pond 174P: DMH 11

Inflow Area = 3.938 ac, 68.53% Impervious, Inflow Depth > 0.31" for 2-Year event
 Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.101 af
 Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.101 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.96'	18.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.96' / 50.70' S= 0.0118 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=51.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.47 cfs @ 2.12 fps)

Summary for Pond 175P: DMH 5

Inflow Area = 1.445 ac, 58.41% Impervious, Inflow Depth > 0.93" for 2-Year event
 Inflow = 1.57 cfs @ 12.10 hrs, Volume= 0.111 af
 Outflow = 1.57 cfs @ 12.10 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.57 cfs @ 12.10 hrs, Volume= 0.111 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.18' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.52'	18.0" Round Culvert L= 103.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.52' / 49.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.57 cfs @ 12.10 hrs HW=50.18' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.57 cfs @ 3.06 fps)

Summary for Pond 176P: CB 6

Inflow Area = 0.199 ac, 57.72% Impervious, Inflow Depth > 0.86" for 2-Year event
 Inflow = 0.20 cfs @ 12.10 hrs, Volume= 0.014 af
 Outflow = 0.20 cfs @ 12.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.20 cfs @ 12.10 hrs, Volume= 0.014 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.07' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.10 hrs HW=50.07' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.20 cfs @ 1.34 fps)

Summary for Pond 177P: CB 13

Inflow Area = 0.319 ac, 64.43% Impervious, Inflow Depth > 1.08" for 2-Year event
Inflow = 0.42 cfs @ 12.10 hrs, Volume= 0.029 af
Outflow = 0.42 cfs @ 12.10 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.10 hrs, Volume= 0.029 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.63' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.10 hrs HW=51.63' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.42 cfs @ 2.24 fps)

Summary for Pond 178P: CB 12

Inflow Area = 0.152 ac, 60.77% Impervious, Inflow Depth > 0.97" for 2-Year event
Inflow = 0.18 cfs @ 12.10 hrs, Volume= 0.012 af
Outflow = 0.18 cfs @ 12.10 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.10 hrs, Volume= 0.012 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.49' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.10 hrs HW=51.49' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.18 cfs @ 1.87 fps)

Summary for Pond 179P: DMH 8

Inflow Area = 0.472 ac, 63.25% Impervious, Inflow Depth > 1.04" for 2-Year event
 Inflow = 0.60 cfs @ 12.10 hrs, Volume= 0.041 af
 Outflow = 0.60 cfs @ 12.10 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.10 hrs, Volume= 0.041 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.52' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.70' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.10 hrs HW=51.51' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.60 cfs @ 2.45 fps)

Summary for Pond 180P: DMH 9

Inflow Area = 0.701 ac, 63.25% Impervious, Inflow Depth > 1.02" for 2-Year event
 Inflow = 0.87 cfs @ 12.10 hrs, Volume= 0.060 af
 Outflow = 0.87 cfs @ 12.10 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.87 cfs @ 12.10 hrs, Volume= 0.060 af
 Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.37' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.84'	15.0" Round Culvert L= 49.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.84' / 50.59' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.87 cfs @ 12.10 hrs HW=51.37' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.87 cfs @ 2.59 fps)

Summary for Pond 181P: DMH 7

Inflow Area = 1.141 ac, 56.99% Impervious, Inflow Depth > 0.89" for 2-Year event
 Inflow = 1.18 cfs @ 12.10 hrs, Volume= 0.084 af
 Outflow = 1.18 cfs @ 12.10 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.18 cfs @ 12.10 hrs, Volume= 0.084 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 51.09' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.49'	15.0" Round Culvert L= 174.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.49' / 49.62' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.18 cfs @ 12.10 hrs HW=51.09' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.18 cfs @ 2.97 fps)**Summary for Pond 182P: CB 7**

Inflow Area = 0.105 ac, 75.17% Impervious, Inflow Depth > 1.46" for 2-Year event
Inflow = 0.19 cfs @ 12.09 hrs, Volume= 0.013 af
Outflow = 0.19 cfs @ 12.09 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.09 hrs, Volume= 0.013 af
Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.06' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=50.06' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.19 cfs @ 1.97 fps)**Summary for Pond 188P: CB 3**

Inflow Area = 0.158 ac, 54.66% Impervious, Inflow Depth > 0.72" for 2-Year event
Inflow = 0.13 cfs @ 12.10 hrs, Volume= 0.009 af
Outflow = 0.13 cfs @ 12.10 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Primary = 0.13 cfs @ 12.10 hrs, Volume= 0.009 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 48.20' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 101.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0099 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.10 hrs HW=48.19' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.13 cfs @ 1.19 fps)

Summary for Pond 189P: CB 4

Inflow Area = 0.282 ac, 69.07% Impervious, Inflow Depth > 1.26" for 2-Year event
 Inflow = 0.44 cfs @ 12.10 hrs, Volume= 0.030 af
 Outflow = 0.44 cfs @ 12.10 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.10 hrs, Volume= 0.030 af
 Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.37' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0116 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.10 hrs HW=48.37' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.43 cfs @ 1.64 fps)

Summary for Pond 191P: CB 42

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af
 Outflow = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af
 Routed to Pond 238P : SUB. INF 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	12.0" Round Culvert L= 194.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.50' / 49.00' S= 0.0077 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.65 cfs @ 12.09 hrs HW=50.96' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.65 cfs @ 1.83 fps)

Summary for Pond 193P: CB 1

Inflow Area = 0.172 ac, 31.70% Impervious, Inflow Depth > 0.15" for 2-Year event
 Inflow = 0.01 cfs @ 12.39 hrs, Volume= 0.002 af
 Outflow = 0.01 cfs @ 12.39 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.01 cfs @ 12.39 hrs, Volume= 0.002 af
 Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 46.90' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.84'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.84' / 46.71' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.01 cfs @ 12.39 hrs HW=46.90' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.01 cfs @ 0.79 fps)**Summary for Pond 194P: CB 2**

Inflow Area = 0.094 ac, 74.38% Impervious, Inflow Depth > 1.46" for 2-Year event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.011 af
Outflow = 0.17 cfs @ 12.09 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.09 hrs, Volume= 0.011 af
Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.81'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.81' / 46.71' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=47.05' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.17 cfs @ 1.75 fps)**Summary for Pond 196P: CB 5**

Inflow Area = 0.336 ac, 80.22% Impervious, Inflow Depth > 1.67" for 2-Year event
Inflow = 0.69 cfs @ 12.09 hrs, Volume= 0.047 af
Outflow = 0.69 cfs @ 12.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 0.69 cfs @ 12.09 hrs, Volume= 0.047 af
Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 49.48' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.00' / 48.50' S= 0.0500 ' S= 0.0500 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=49.47' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.68 cfs @ 1.85 fps)

Summary for Pond 197P: Inf. Basin 1

Inflow Area = 8.503 ac, 57.81% Impervious, Inflow Depth > 0.07" for 2-Year event
 Inflow = 0.57 cfs @ 12.30 hrs, Volume= 0.052 af
 Outflow = 0.42 cfs @ 12.46 hrs, Volume= 0.052 af, Atten= 26%, Lag= 9.9 min
 Discarded = 0.42 cfs @ 12.46 hrs, Volume= 0.052 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 45.58' @ 12.46 hrs Surf.Area= 1,915 sf Storage= 144 cf

Plug-Flow detention time= 2.9 min calculated for 0.052 af (100% of inflow)
 Center-of-Mass det. time= 2.5 min (828.8 - 826.3)

Volume	Invert	Avail.Storage	Storage Description
#1	45.50'	6,632 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
45.50	1,870	0	0
46.00	2,165	1,009	1,009
47.00	2,795	2,480	3,489
48.00	3,492	3,144	6,632

Device	Routing	Invert	Outlet Devices
#1	Discarded	45.50'	8.200 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 45.00'
#2	Primary	45.00'	10.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 45.00' / 43.50' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.55 sf
#3	Device 2	46.60'	10.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.42 cfs @ 12.46 hrs HW=45.58' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.42 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=45.50' (Free Discharge)

↑ **2=Culvert** (Passes 0.00 cfs of 0.65 cfs potential flow)

↑ **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 198P: Sub. Inf. 2

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 1.37" for 2-Year event
 Inflow = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af
 Outflow = 1.94 cfs @ 12.20 hrs, Volume= 0.198 af, Atten= 33%, Lag= 6.0 min
 Discarded = 1.94 cfs @ 12.20 hrs, Volume= 0.198 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 51.51' @ 12.20 hrs Surf.Area= 2,788 sf Storage= 571 cf

Plug-Flow detention time= 1.6 min calculated for 0.197 af (100% of inflow)

Center-of-Mass det. time= 1.5 min (799.3 - 797.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	51.00'	2,514 cf	25.25'W x 110.42'L x 3.50'H Field A 9,758 cf Overall - 3,472 cf Embedded = 6,286 cf x 40.0% Voids
#2A	51.50'	3,472 cf	ADS_StormTech SC-740 b +Cap x 75 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 75 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		5,986 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	51.00'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	52.75'	12.0" Round Culvert L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 52.75' / 52.65' S= 0.0100 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	54.00'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.94 cfs @ 12.20 hrs HW=51.50' (Free Discharge)↑**1=Exfiltration** (Controls 1.94 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=51.00' (Free Discharge)↑**2=Culvert** (Controls 0.00 cfs)↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 200P: DMH 1**

Inflow Area = 0.265 ac, 46.75% Impervious, Inflow Depth > 0.61" for 2-Year event
 Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af
 Outflow = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af
 Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 46.94' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.70'	12.0" Round Culvert L= 208.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.70' / 45.70' S= 0.0048 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=46.94' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.17 cfs @ 1.77 fps)

Summary for Pond 201P: Sub. Inf. 3

Inflow Area = 1.343 ac, 61.65% Impervious, Inflow Depth > 1.05" for 2-Year event
 Inflow = 1.67 cfs @ 12.10 hrs, Volume= 0.117 af
 Outflow = 1.21 cfs @ 12.18 hrs, Volume= 0.117 af, Atten= 27%, Lag= 5.0 min
 Discarded = 1.21 cfs @ 12.18 hrs, Volume= 0.117 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.73' @ 12.18 hrs Surf.Area= 2,264 sf Storage= 211 cf

Plug-Flow detention time= 0.9 min calculated for 0.117 af (100% of inflow)
 Center-of-Mass det. time= 0.8 min (807.1 - 806.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	52.50'	2,058 cf	20.50'W x 110.42'L x 3.50'H Field A 7,922 cf Overall - 2,778 cf Embedded = 5,145 cf x 40.0% Voids
#2A	53.00'	2,778 cf	ADS StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
4,836 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	52.50'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 51.00'
#2	Primary	54.00'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.00' / 53.65' S= 0.0175 ' S= 0.0175 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	55.50'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.21 cfs @ 12.18 hrs HW=52.73' (Free Discharge)

↑**1=Exfiltration** (Controls 1.21 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.50' (Free Discharge)

↑**2=Culvert** (Controls 0.00 cfs)

↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 202P: DMH 14

Inflow Area = 3.074 ac, 67.24% Impervious, Inflow Depth = 0.00" for 2-Year event
 Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.65' @ 5.00 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	18.0" Round Culvert L= 89.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.65' / 52.16' S= 0.0055 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.65' (Free Discharge)
 ↑**1=Culvert** (Controls 0.00 cfs)

Summary for Pond 204P: DMH 18

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 1.37" for 2-Year event
 Inflow = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af
 Outflow = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.92 cfs @ 12.09 hrs, Volume= 0.198 af
 Routed to Pond 198P : Sub. Inf. 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.58' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.55'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.55' / 51.50' S= 0.0100 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.88 cfs @ 12.09 hrs HW=52.58' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.88 cfs @ 3.15 fps)

Summary for Pond 205P: DMH 27

Inflow Area = 0.746 ac, 74.14% Impervious, Inflow Depth > 1.45" for 2-Year event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af
 Routed to Pond 201P : Sub. Inf. 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 53.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.70'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.70' / 52.60' S= 0.0063 ' S= 0.0063 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.31 cfs @ 12.09 hrs HW=53.46' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.31 cfs @ 2.82 fps)**Summary for Pond 206P: DMH 34**

Inflow Area = 1.284 ac, 75.37% Impervious, Inflow Depth > 1.15" for 2-Year event
Inflow = 1.79 cfs @ 12.09 hrs, Volume= 0.124 af
Outflow = 1.79 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 1.79 cfs @ 12.09 hrs, Volume= 0.124 af
Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.25' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	15.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 54.50' S= -0.1800 ' S= -0.1800 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.75 cfs @ 12.09 hrs HW=55.24' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.75 cfs @ 2.31 fps)**Summary for Pond 207P: level spreader 7.8.9**

Inflow Area = 3.450 ac, 70.15% Impervious, Inflow Depth > 0.81" for 2-Year event
Inflow = 3.73 cfs @ 12.20 hrs, Volume= 0.233 af
Outflow = 5.15 cfs @ 12.20 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.2 min
Primary = 5.15 cfs @ 12.20 hrs, Volume= 0.230 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.14' @ 12.20 hrs Surf.Area= 210 sf Storage= 160 cf

Plug-Flow detention time= 5.8 min calculated for 0.230 af (99% of inflow)

Center-of-Mass det. time= 1.1 min (803.8 - 802.6)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Type III 24-hr 2-Year Rainfall=3.15"

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=4.88 cfs @ 12.20 hrs HW=57.14' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 4.88 cfs @ 1.00 fps)**Summary for Pond 208P: level spreader DB6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 1.15" for 2-Year event
 Inflow = 0.39 cfs @ 13.04 hrs, Volume= 0.180 af
 Outflow = 0.39 cfs @ 13.05 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.3 min
 Primary = 0.39 cfs @ 13.05 hrs, Volume= 0.177 af
 Routed to Link 188L : DP 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.03' @ 13.05 hrs Surf.Area= 196 sf Storage= 136 cf

Plug-Flow detention time= 8.5 min calculated for 0.176 af (98% of inflow)
 Center-of-Mass det. time= 3.9 min (916.2 - 912.3)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	70	0	0
52.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.38 cfs @ 13.05 hrs HW=52.03' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 0.38 cfs @ 0.43 fps)

Summary for Pond 209P: level spreader 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth = 0.61" for 2-Year event
 Inflow = 0.61 cfs @ 12.35 hrs, Volume= 0.031 af
 Outflow = 0.74 cfs @ 12.36 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.7 min
 Primary = 0.74 cfs @ 12.36 hrs, Volume= 0.028 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 57.04' @ 12.35 hrs Surf.Area= 197 sf Storage= 139 cf

Plug-Flow detention time= 21.2 min calculated for 0.028 af (90% of inflow)
Center-of-Mass det. time= 6.0 min (795.4 - 789.4)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 'I' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.65 cfs @ 12.36 hrs HW=57.04' (Free Discharge)
1=Broad-Crested Rectangular Weir (Weir Controls 0.65 cfs @ 0.51 fps)

Summary for Pond 210P: level spreader 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth = 0.92" for 2-Year event
 Inflow = 1.58 cfs @ 12.17 hrs, Volume= 0.053 af
 Outflow = 2.48 cfs @ 12.20 hrs, Volume= 0.050 af, Atten= 0%, Lag= 2.0 min
 Primary = 2.48 cfs @ 12.20 hrs, Volume= 0.050 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 57.09' @ 12.20 hrs Surf.Area= 203 sf Storage= 149 cf

Plug-Flow detention time= 13.5 min calculated for 0.050 af (95% of inflow)
Center-of-Mass det. time= 3.2 min (786.0 - 782.7)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.47 cfs @ 12.20 hrs HW=57.09' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 2.47 cfs @ 0.80 fps)**Summary for Pond 211P: level spreader 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth = 0.01" for 2-Year event

Inflow = 0.01 cfs @ 15.35 hrs, Volume= 0.001 af

Outflow = 0.01 cfs @ 16.10 hrs, Volume= 0.000 af, Atten= 13%, Lag= 45.1 min

Primary = 0.01 cfs @ 16.10 hrs, Volume= 0.000 af

Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.00' @ 16.10 hrs Surf.Area= 131 sf Storage= 50 cf

Plug-Flow detention time= 95.3 min calculated for 0.000 af (11% of inflow)

Center-of-Mass det. time= 49.6 min (975.0 - 925.4)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.00 cfs @ 16.10 hrs HW=52.00' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 0.00 cfs @ 0.08 fps)

Summary for Pond 212P: level spreader DB5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 0.32" for 2-Year event
 Inflow = 0.08 cfs @ 17.29 hrs, Volume= 0.053 af
 Outflow = 0.09 cfs @ 12.40 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.09 cfs @ 12.40 hrs, Volume= 0.052 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.01' @ 12.40 hrs Surf.Area= 133 sf Storage= 52 cf

Plug-Flow detention time= 10.5 min calculated for 0.052 af (98% of inflow)
 Center-of-Mass det. time= 5.4 min (976.4 - 971.0)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.08 cfs @ 12.40 hrs HW=52.01' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 0.08 cfs @ 0.26 fps)

Summary for Pond 215P: CB 5A

Inflow Area = 0.149 ac, 77.32% Impervious, Inflow Depth > 1.60" for 2-Year event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.020 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.40'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.40' / 48.20' S= 0.0154 ' S= 0.0154 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=48.70' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.29 cfs @ 1.47 fps)

Summary for Pond 216P: CB 8A

Inflow Area = 0.484 ac, 16.33% Impervious, Inflow Depth = 0.00" for 2-Year event
 Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.63' @ 5.00 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.63'	12.0" Round Culvert L= 63.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.63' / 49.00' S= 0.0100 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.63' (Free Discharge)
 ↑**1=Culvert** (Controls 0.00 cfs)

Summary for Pond 217P: DMH 8A

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 0.39" for 2-Year event
 Inflow = 2.09 cfs @ 12.10 hrs, Volume= 0.142 af
 Outflow = 2.09 cfs @ 12.10 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.09 cfs @ 12.10 hrs, Volume= 0.142 af
 Routed to Pond 245P : SUB ONF. 1B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.41' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.60'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.60' / 50.50' S= 0.0200 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.06 cfs @ 12.10 hrs HW=51.40' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.06 cfs @ 3.10 fps)

Summary for Pond 218P: CB A

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 1.08" for 2-Year event
 Inflow = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af
 Outflow = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af
 Routed to Pond 219P : DMH A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.16' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.85'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.85' / 51.32' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.10 hrs HW=52.16' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.28 cfs @ 2.05 fps)**Summary for Pond 219P: DMH A**

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 1.08" for 2-Year event
Inflow = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af
Outflow = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af
Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.57' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.27'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.27' / 50.93' S= 0.0057 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.10 hrs HW=51.57' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.28 cfs @ 2.08 fps)**Summary for Pond 221P: DET Basin 6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 1.23" for 2-Year event
Inflow = 3.22 cfs @ 12.21 hrs, Volume= 0.191 af
Outflow = 0.39 cfs @ 13.04 hrs, Volume= 0.180 af, Atten= 88%, Lag= 50.0 min
Primary = 0.39 cfs @ 13.04 hrs, Volume= 0.180 af
Routed to Pond 208P : level spreader DB6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.50' @ 13.04 hrs Surf.Area= 4,068 sf Storage= 4,644 cf

Plug-Flow detention time= 153.9 min calculated for 0.180 af (94% of inflow)

Center-of-Mass det. time= 138.4 min (912.3 - 773.8)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	12,315 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	2,498	0	0
53.00	3,157	2,828	2,828
54.00	4,968	4,063	6,890
55.00	5,881	5,425	12,315

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	18.0" Round Culvert L= 34.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 52.00' / 51.80' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.38 cfs @ 13.04 hrs HW=53.50' (Free Discharge)

- 1=Culvert (Passes 0.38 cfs of 6.16 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.37 cfs @ 5.61 fps)
 3=Orifice/Grate (Weir Controls 0.00 cfs @ 0.17 fps)

Summary for Pond 223P: Sub. Inf. 4B

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 2.25" for 2-Year event
 Inflow = 4.36 cfs @ 12.09 hrs, Volume= 0.311 af
 Outflow = 4.29 cfs @ 12.11 hrs, Volume= 0.231 af, Atten= 2%, Lag= 1.3 min
 Discarded = 0.03 cfs @ 7.20 hrs, Volume= 0.035 af
 Primary = 4.26 cfs @ 12.11 hrs, Volume= 0.195 af
 Routed to Pond 15P : Det. Basin 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.47' @ 12.11 hrs Surf.Area= 1,296 sf Storage= 3,978 cf

Plug-Flow detention time= 97.4 min calculated for 0.230 af (74% of inflow)
 Center-of-Mass det. time= 36.5 min (798.1 - 761.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	588 cf	18.00"W x 72.00"L x 5.17"H Field A 6,700 cf Overall - 5,230 cf Embedded = 1,470 cf x 40.0% Voids
#2A	59.00'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 2 Rows
		4,588 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area
#2	Primary	58.00'	18.0" Round Culvert L= 54.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 58.00' / 54.00' S= 0.0741 '/' Cc= 0.900

#3 Device 2 62.00' n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long + 1.0 ' SideZ x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 7.20 hrs HW=58.55' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=4.12 cfs @ 12.11 hrs HW=62.47' (Free Discharge)

↑**2=Culvert** (Passes 4.12 cfs of 16.40 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 4.12 cfs @ 1.99 fps)

Summary for Pond 231P: Sub inf. 4A

Inflow Area = 0.514 ac, 88.33% Impervious, Inflow Depth > 2.48" for 2-Year event
 Inflow = 1.45 cfs @ 12.09 hrs, Volume= 0.106 af
 Outflow = 0.04 cfs @ 9.05 hrs, Volume= 0.038 af, Atten= 98%, Lag= 0.0 min
 Discarded = 0.04 cfs @ 9.05 hrs, Volume= 0.038 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.71' @ 16.81 hrs Surf.Area= 1,508 sf Storage= 3,099 cf

Plug-Flow detention time= 176.1 min calculated for 0.038 af (35% of inflow)

Center-of-Mass det. time= 61.5 min (812.4 - 751.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	674 cf	26.00'W x 58.00'L x 6.17'H Field A 9,304 cf Overall - 7,620 cf Embedded = 1,684 cf x 40.0% Voids
#2A	55.50'	6,000 cf	Shea Leaching Chamber 8x14x5.7 x 12 Inside #1 Inside= 84.0"W x 60.0"H => 38.46 sf x 13.00'L = 500.0 cf Outside= 96.0"W x 68.0"H => 45.36 sf x 14.00'L = 635.0 cf 12 Chambers in 3 Rows
		6,674 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	59.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.04 cfs @ 9.05 hrs HW=55.06' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=55.00' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 233P: SUB. INF. 11

Inflow Area = 0.862 ac, 81.83% Impervious, Inflow Depth > 2.31" for 2-Year event
 Inflow = 2.32 cfs @ 12.09 hrs, Volume= 0.166 af
 Outflow = 1.91 cfs @ 12.15 hrs, Volume= 0.160 af, Atten= 18%, Lag= 3.6 min
 Discarded = 0.03 cfs @ 12.15 hrs, Volume= 0.031 af
 Primary = 1.88 cfs @ 12.15 hrs, Volume= 0.129 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.89' @ 12.15 hrs Surf.Area= 1,044 sf Storage= 975 cf

Plug-Flow detention time= 30.1 min calculated for 0.160 af (96% of inflow)
 Center-of-Mass det. time= 16.5 min (776.7 - 760.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	59.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 54.00'
#2	Primary	59.00'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.00' / 53.00' S= 0.1714 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Primary	60.90'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 12.15 hrs HW=59.89' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.03 cfs)

Primary OutFlow Max=1.87 cfs @ 12.15 hrs HW=59.89' (Free Discharge)

↑ **2=Culvert** (Inlet Controls 1.87 cfs @ 2.54 fps)

↑ **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 235P: ILSF BASIN

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 0.77" for 2-Year event
 Inflow = 9.80 cfs @ 12.20 hrs, Volume= 0.457 af
 Outflow = 1.47 cfs @ 12.86 hrs, Volume= 0.411 af, Atten= 85%, Lag= 39.6 min
 Primary = 1.47 cfs @ 12.86 hrs, Volume= 0.411 af
 Routed to Link 188L : DP 3

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.41' @ 12.86 hrs Surf.Area= 24,161 sf Storage= 8,371 cf

Plug-Flow detention time= 103.4 min calculated for 0.409 af (89% of inflow)
 Center-of-Mass det. time= 77.6 min (882.2 - 804.6)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	63,266 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	16,688	0	0
57.00	34,922	25,805	25,805
58.00	40,000	37,461	63,266

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	8.0" Vert. Orifice/Grate X 3.00 C= 0.600 Limited to weir flow at low heads
#2	Primary	57.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.47 cfs @ 12.86 hrs HW=56.41' (Free Discharge)

↑ **1=Orifice/Grate** (Orifice Controls 1.47 cfs @ 2.18 fps)
 ↓ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 238P: SUB. INF 3A

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 1.99" for 2-Year event
 Inflow = 0.67 cfs @ 12.09 hrs, Volume= 0.046 af
 Outflow = 0.48 cfs @ 12.05 hrs, Volume= 0.046 af, Atten= 28%, Lag= 0.0 min
 Discarded = 0.48 cfs @ 12.05 hrs, Volume= 0.046 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.19' @ 12.17 hrs Surf.Area= 1,044 sf Storage= 78 cf

Plug-Flow detention time= 0.9 min calculated for 0.046 af (100% of inflow)
 Center-of-Mass det. time= 0.8 min (775.9 - 775.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	426 cf	18.00'W x 58.00'L x 4.17'H Field A 4,353 cf Overall - 3,288 cf Embedded = 1,065 cf x 40.0% Voids
#2A	49.50'	2,400 cf	Shea Leaching Chamber 8x14x3.7 x 8 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 8 Chambers in 2 Rows
		2,826 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	20.000 in/hr Exfiltration over Surface area
#2	Primary	53.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.48 cfs @ 12.05 hrs HW=49.07' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.48 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 239P: INF 3C

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 1.67" for 2-Year event
 Inflow = 0.52 cfs @ 12.09 hrs, Volume= 0.035 af
 Outflow = 0.36 cfs @ 12.05 hrs, Volume= 0.035 af, Atten= 30%, Lag= 0.0 min
 Discarded = 0.36 cfs @ 12.05 hrs, Volume= 0.035 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.66' @ 12.18 hrs Surf.Area= 1,044 sf Storage= 66 cf

Plug-Flow detention time= 1.0 min calculated for 0.035 af (100% of inflow)

Center-of-Mass det. time= 0.9 min (789.1 - 788.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	55.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
1,967 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	58.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.36 cfs @ 12.05 hrs HW=54.55' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.36 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.50' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 240P: Sub. Inf. 3B

Inflow Area = 1.365 ac, 60.63% Impervious, Inflow Depth > 1.06" for 2-Year event
 Inflow = 1.78 cfs @ 12.10 hrs, Volume= 0.121 af
 Outflow = 1.65 cfs @ 12.13 hrs, Volume= 0.121 af, Atten= 7%, Lag= 1.8 min
 Discarded = 1.65 cfs @ 12.13 hrs, Volume= 0.121 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.06' @ 12.13 hrs Surf.Area= 2,249 sf Storage= 57 cf

Plug-Flow detention time= 0.4 min calculated for 0.121 af (100% of inflow)
 Center-of-Mass det. time= 0.3 min (805.0 - 804.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	2,035 cf	25.25'W x 89.06'L x 3.50'H Field A 7,870 cf Overall - 2,783 cf Embedded = 5,087 cf x 40.0% Voids
#2A	49.50'	2,783 cf	ADS_StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
4,818 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	30.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	51.90'	1.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.61 cfs @ 12.13 hrs HW=49.06' (Free Discharge)
 ↑1=Exfiltration (Controls 1.61 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 241P: Sub. Inf. 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 2.42" for 2-Year event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 0.139 af
 Outflow = 1.62 cfs @ 12.17 hrs, Volume= 0.090 af, Atten= 15%, Lag= 4.8 min
 Discarded = 0.04 cfs @ 12.17 hrs, Volume= 0.037 af
 Primary = 1.58 cfs @ 12.17 hrs, Volume= 0.053 af
 Routed to Pond 210P : level spreader 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 58.99' @ 12.17 hrs Surf.Area= 1,096 sf Storage= 2,316 cf

Plug-Flow detention time= 114.1 min calculated for 0.089 af (64% of inflow)

Center-of-Mass det. time= 42.1 min (795.2 - 753.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.50'	1,011 cf	20.50'W x 53.46'L x 3.50'H Field A 3,836 cf Overall - 1,308 cf Embedded = 2,528 cf x 40.0% Voids
#2A	56.00'	1,308 cf	ADS_StormTech SC-740 b +Cap x 28 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 28 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		2,319 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	56.00'	15.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 56.00' / 56.00' S= 0.0000 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	58.70'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.17 hrs HW=58.94' (Free Discharge)↑ **1=Exfiltration** (Controls 0.04 cfs)**Primary OutFlow** Max=1.38 cfs @ 12.17 hrs HW=58.95' (Free Discharge)↑ **2=Culvert** (Passes 1.38 cfs of 6.55 cfs potential flow)↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 1.38 cfs @ 1.40 fps)**Summary for Pond 242P: SUB INF.1C**

Inflow Area = 7.166 ac, 62.94% Impervious, Inflow Depth > 0.31" for 2-Year event
Inflow = 2.65 cfs @ 12.10 hrs, Volume= 0.185 af
Outflow = 1.28 cfs @ 12.05 hrs, Volume= 0.185 af, Atten= 52%, Lag= 0.0 min
Discarded = 1.28 cfs @ 12.05 hrs, Volume= 0.185 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 48.02' @ 12.31 hrs Surf.Area= 3,692 sf Storage= 799 cf

Plug-Flow detention time= 3.4 min calculated for 0.184 af (100% of inflow)

Center-of-Mass det. time= 3.2 min (811.9 - 808.7)

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Volume	Invert	Avail.Storage	Storage Description
#1A	47.50'	1,359 cf	26.00'W x 142.00'L x 5.17'H Field A 19,088 cf Overall - 15,691 cf Embedded = 3,396 cf x 40.0% Voids
#2A	48.00'	12,000 cf	Shea Leaching Chamber 8x14x4.7 x 30 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 30 Chambers in 3 Rows
		13,359 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	51.70'	15.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.28 cfs @ 12.05 hrs HW=47.62' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 1.28 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=47.50' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 244P: SUB INF. 1A**

Inflow Area = 4.558 ac, 68.27% Impervious, Inflow Depth > 0.05" for 2-Year event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.28 cfs @ 12.12 hrs, Volume= 0.020 af, Atten= 4%, Lag= 1.4 min
 Discarded = 0.28 cfs @ 12.12 hrs, Volume= 0.020 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.73' @ 12.12 hrs Surf.Area= 1,800 sf Storage= 25 cf

Plug-Flow detention time= 1.5 min calculated for 0.020 af (100% of inflow)

Center-of-Mass det. time= 1.3 min (792.3 - 791.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	793 cf	18.00'W x 100.00'L x 5.17'H Field A 9,306 cf Overall - 7,323 cf Embedded = 1,983 cf x 40.0% Voids
#2A	48.20'	5,600 cf	Shea Leaching Chamber 8x14x4.7 x 14 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 14 Chambers in 2 Rows
		6,393 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	10.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	8.0" Horiz. Orifice/Grate C= 0.600

Limited to weir flow at low heads

Discarded OutFlow Max=0.42 cfs @ 12.12 hrs HW=47.73' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.42 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 245P: SUB ONF. 1B

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 0.39" for 2-Year event
 Inflow = 2.09 cfs @ 12.10 hrs, Volume= 0.142 af
 Outflow = 1.30 cfs @ 12.05 hrs, Volume= 0.142 af, Atten= 38%, Lag= 0.0 min
 Discarded = 1.30 cfs @ 12.05 hrs, Volume= 0.142 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.18' @ 12.21 hrs Surf.Area= 1,872 sf Storage= 358 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 1.2 min (803.6 - 802.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	733 cf	26.00'W x 72.00'L x 5.17'H Field A 9,678 cf Overall - 7,846 cf Embedded = 1,833 cf x 40.0% Voids
#2A	48.20'	6,000 cf	Shea Leaching Chamber 8x14x4.7 x 15 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 15 Chambers in 3 Rows
		6,733 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	30.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.30 cfs @ 12.05 hrs HW=47.82' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 1.30 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 246P: Sub. Inf. 3D

Inflow Area = 1.330 ac, 35.11% Impervious, Inflow Depth > 0.39" for 2-Year event
 Inflow = 0.52 cfs @ 12.11 hrs, Volume= 0.043 af
 Outflow = 0.50 cfs @ 12.13 hrs, Volume= 0.043 af, Atten= 3%, Lag= 0.8 min
 Discarded = 0.50 cfs @ 12.13 hrs, Volume= 0.043 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.02' @ 12.13 hrs Surf.Area= 2,352 sf Storage= 20 cf

Plug-Flow detention time= 0.7 min calculated for 0.043 af (100% of inflow)
 Center-of-Mass det. time= 0.5 min (842.8 - 842.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	2,121 cf	34.75'W x 67.70'L x 3.50'H Field A 8,234 cf Overall - 2,931 cf Embedded = 5,302 cf x 40.0% Voids
#2A	54.50'	2,931 cf	ADS_StormTech SC-740 b +Cap x 63 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 63 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
		5,052 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 42.30'
#2	Primary	57.00'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.82 cfs @ 12.13 hrs HW=54.02' (Free Discharge)
 ↑1=Exfiltration (Controls 0.82 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 248P: SUB.INF 3F

Inflow Area = 0.333 ac, 89.47% Impervious, Inflow Depth > 2.18" for 2-Year event
 Inflow = 1.01 cfs @ 12.00 hrs, Volume= 0.060 af
 Outflow = 0.45 cfs @ 11.95 hrs, Volume= 0.060 af, Atten= 55%, Lag= 0.0 min
 Discarded = 0.45 cfs @ 11.95 hrs, Volume= 0.060 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.47' @ 12.12 hrs Surf.Area= 1,296 sf Storage= 244 cf

Plug-Flow detention time= 2.8 min calculated for 0.060 af (100% of inflow)

Center-of-Mass det. time= 2.6 min (765.0 - 762.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	518 cf	18.00'W x 72.00'L x 4.17'H Field A 5,404 cf Overall - 4,110 cf Embedded = 1,294 cf x 40.0% Voids
#2A	54.50'	3,000 cf	Shea Leaching Chamber 8x14x3.7 x 10 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 10 Chambers in 2 Rows
		3,518 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.45 cfs @ 11.95 hrs HW=54.11' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.45 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 249P: SUB.INF 3E**

Inflow Area = 0.139 ac, 100.00% Impervious, Inflow Depth > 2.73" for 2-Year event
 Inflow = 0.49 cfs @ 12.00 hrs, Volume= 0.032 af
 Outflow = 0.27 cfs @ 11.95 hrs, Volume= 0.032 af, Atten= 43%, Lag= 0.0 min
 Discarded = 0.27 cfs @ 11.95 hrs, Volume= 0.032 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.24' @ 12.09 hrs Surf.Area= 792 sf Storage= 78 cf

Plug-Flow detention time= 1.4 min calculated for 0.032 af (100% of inflow)

Center-of-Mass det. time= 1.3 min (735.5 - 734.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	287 cf	18.00'W x 44.00'L x 3.17'H Field A 2,511 cf Overall - 1,794 cf Embedded = 716 cf x 40.0% Voids
#2A	55.50'	1,200 cf	Shea Leaching Chamber 8x14x2.7 x 6 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 6 Chambers in 2 Rows
		1,487 cf	Total Available Storage

Storage Group A created with Chamber Wizard

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Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.27 cfs @ 11.95 hrs HW=55.06' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.27 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=55.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 251P: Sub. Inf. 10**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 2.08" for 2-Year event
 Inflow = 2.52 cfs @ 12.09 hrs, Volume= 0.175 af
 Outflow = 1.61 cfs @ 12.22 hrs, Volume= 0.119 af, Atten= 36%, Lag= 7.7 min
 Discarded = 0.07 cfs @ 12.22 hrs, Volume= 0.057 af
 Primary = 1.54 cfs @ 12.22 hrs, Volume= 0.062 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.18' @ 12.22 hrs Surf.Area= 1,610 sf Storage= 2,876 cf

Plug-Flow detention time= 118.6 min calculated for 0.119 af (68% of inflow)
 Center-of-Mass det. time= 50.0 min (821.0 - 770.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	1,468 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,967 cf Embedded = 3,669 cf x 40.0% Voids
#2A	59.00'	1,967 cf	ADS StormTech SC-740 b +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
3,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 55.00'
#2	Primary	60.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.07 cfs @ 12.22 hrs HW=61.16' (Free Discharge)↑**1=Exfiltration** (Controls 0.07 cfs)**Primary OutFlow** Max=1.40 cfs @ 12.22 hrs HW=61.16' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Weir Controls 1.40 cfs @ 1.37 fps)

Summary for Link 59L: DP 1

Inflow Area = 8.749 ac, 31.63% Impervious, Inflow Depth > 0.09" for 2-Year event
Inflow = 0.12 cfs @ 16.10 hrs, Volume= 0.062 af
Primary = 0.12 cfs @ 16.10 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 60L: DP 2

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 0.77" for 2-Year event
Inflow = 9.80 cfs @ 12.20 hrs, Volume= 0.457 af
Primary = 9.80 cfs @ 12.20 hrs, Volume= 0.457 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 235P : ILSF BASIN

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 188L: DP 3

Inflow Area = 14.503 ac, 39.16% Impervious, Inflow Depth > 0.57" for 2-Year event
Inflow = 2.18 cfs @ 12.67 hrs, Volume= 0.693 af
Primary = 2.18 cfs @ 12.67 hrs, Volume= 0.693 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 203L: 3A

Inflow Area = 15.797 ac, 45.37% Impervious, Inflow Depth = 0.00" for 2-Year event
Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1S: P1A

Runoff = 0.79 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 4.19"
Routed to Pond 16P : CB 58

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
254	74	>75% Grass cover, Good, HSG C
1,384	98	Unconnected roofs, HSG C
5,863	98	Paved parking, HSG C
7,501	97	Weighted Average
254		3.39% Pervious Area
7,247		96.61% Impervious Area
1,384		19.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: P1B

Runoff = 1.63 cfs @ 12.09 hrs, Volume= 0.118 af, Depth> 3.71"
Routed to Pond 17P : CB 59

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,226	98	Unconnected roofs, HSG C
4,280	74	>75% Grass cover, Good, HSG C
7,078	98	Paved parking, HSG C
16,584	92	Weighted Average
4,280		25.81% Pervious Area
12,304		74.19% Impervious Area
5,226		42.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: P1C

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 3.41"
Routed to Pond 18P : CB 63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
1,616	98	Unconnected roofs, HSG C
2,173	74	>75% Grass cover, Good, HSG C
2,298	98	Paved parking, HSG C
6,087	89	Weighted Average
2,173		35.70% Pervious Area
3,914		64.30% Impervious Area
1,616		41.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 4S: P1D

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 0.021 af, Depth> 3.91"
Routed to Pond 19P : CB 62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
512	74	>75% Grass cover, Good, HSG C
2,255	98	Paved parking, HSG C
2,767	94	Weighted Average
512		18.50% Pervious Area
2,255		81.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 5S: P1E

Runoff = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 3.51"
Routed to Pond 26P : CB 61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,900	74	>75% Grass cover, Good, HSG C
3,976	98	Unconnected roofs, HSG C
3,662	98	Paved parking, HSG C
11,538	90	Weighted Average
3,900		33.80% Pervious Area
7,638		66.20% Impervious Area
3,976		52.06% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: P1F

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 3.61"
Routed to Pond 27P : CB 60

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,378	74	>75% Grass cover, Good, HSG C
429	98	Unconnected roofs, HSG C
3,010	98	Paved parking, HSG C
4,817	91	Weighted Average
1,378		28.61% Pervious Area
3,439		71.39% Impervious Area
429		12.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: P1G

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 0.045 af, Depth> 4.26"
Routed to Pond 22P : CB 56

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,511	98	Paved parking, HSG C
5,511		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 8S: P1H

Runoff = 1.39 cfs @ 12.09 hrs, Volume= 0.102 af, Depth> 3.91"
Routed to Pond 23P : CB 57

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
2,554	74	>75% Grass cover, Good, HSG C
5,795	98	Unconnected roofs, HSG C
5,364	98	Paved parking, HSG C
13,713	94	Weighted Average
2,554		18.62% Pervious Area
11,159		81.38% Impervious Area
5,795		51.93% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: P1I

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 3.81"
Routed to Pond 30P : CB 55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
780	74	>75% Grass cover, Good, HSG C
2,836	98	Paved parking, HSG C
3,616	93	Weighted Average
780		21.57% Pervious Area
2,836		78.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 10S: P1J

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 0.016 af, Depth> 4.26"
Routed to Pond 33P : CB 53

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,937	98	Paved parking, HSG C
1,937		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 11S: P1K

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth> 4.19"
Routed to Pond 31P : CB 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
61	74	>75% Grass cover, Good, HSG C
354	98	Unconnected roofs, HSG C
1,521	98	Paved parking, HSG C
1,936	97	Weighted Average
61		3.15% Pervious Area
1,875		96.85% Impervious Area
354		18.88% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 12S: P1L

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 3.81"
Routed to Pond 32P : CB 52

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,077	74	>75% Grass cover, Good, HSG C
2,390	98	Unconnected roofs, HSG C
5,354	98	Paved parking, HSG C
9,821	93	Weighted Average
2,077		21.15% Pervious Area
7,744		78.85% Impervious Area
2,390		30.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: P1M

Runoff = 0.91 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 4.19"
Routed to Pond 36P : CB 54

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
476	74	>75% Grass cover, Good, HSG C
569	98	Unconnected roofs, HSG C
7,654	98	Paved parking, HSG C
8,699	97	Weighted Average
476		5.47% Pervious Area
8,223		94.53% Impervious Area
569		6.92% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: P1N

Runoff = 0.87 cfs @ 12.10 hrs, Volume= 0.059 af, Depth> 2.06"
Routed to Pond 15P : Det. Basin 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
586	98		Unconnected roofs, HSG C
14,279	74		>75% Grass cover, Good, HSG C
14,865	75	74	Weighted Average, UI Adjusted
14,279			96.06% Pervious Area
586			3.94% Impervious Area
586			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: P1P

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 3.51"
Routed to Pond 42P : CB 50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,926	98	Unconnected roofs, HSG C
2,623	74	>75% Grass cover, Good, HSG C
3,390	98	Paved parking, HSG C
7,939	90	Weighted Average
2,623		33.04% Pervious Area
5,316		66.96% Impervious Area
1,926		36.23% Unconnected

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Type III 24-hr 10-Year Rainfall=4.83"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: P1O

Runoff = 0.10 cfs @ 12.09 hrs, Volume= 0.008 af, Depth> 4.26"
 Routed to Pond 41P : CB 49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
978	98	Paved parking, HSG C
978		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 44S: P1R

Runoff = 1.22 cfs @ 12.09 hrs, Volume= 0.083 af, Depth> 2.83"
 Routed to Pond 46P : CB 48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
704	98	Unconnected pavement, HSG C
1,196	74	>75% Grass cover, Good, HSG C
955	98	Paved parking, HSG C
2,884	98	Unconnected roofs, HSG A
3,316	39	>75% Grass cover, Good, HSG A
6,279	98	Paved parking, HSG A
15,334	83	Weighted Average
4,512		29.42% Pervious Area
10,822		70.58% Impervious Area
3,588		33.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 45S: P1Q

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 4.19"
 Routed to Pond 47P : CB 47

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Type III 24-hr 10-Year Rainfall=4.83"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
49	74	>75% Grass cover, Good, HSG C
49	98	Unconnected roofs, HSG C
1,120	98	Paved parking, HSG C
80	39	>75% Grass cover, Good, HSG A
442	98	Unconnected roofs, HSG A
3,507	98	Paved parking, HSG A
5,247	97	Weighted Average
129		2.46% Pervious Area
5,118		97.54% Impervious Area
491		9.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 50S: P1S

Runoff = 1.55 cfs @ 12.09 hrs, Volume= 0.105 af, Depth> 2.39"
 Routed to Pond 53P : CB 21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
6,743	98	Unconnected roofs, HSG A
7,903	39	>75% Grass cover, Good, HSG A
8,226	98	Paved parking, HSG A
22,872	78	Weighted Average
7,903		34.55% Pervious Area
14,969		65.45% Impervious Area
6,743		45.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 51S: P1T

Runoff = 0.29 cfs @ 12.11 hrs, Volume= 0.023 af, Depth> 0.85"
 Routed to Pond 52P : CB 20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
9,878	39	>75% Grass cover, Good, HSG A
4,085	98	Paved parking, HSG A
13,963	56	Weighted Average
9,878		70.74% Pervious Area
4,085		29.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 57S: (new Subcat)

Runoff = 0.01 cfs @ 13.76 hrs, Volume= 0.006 af, Depth> 0.13"
 Routed to Pond 56P : Inf. Basin 3G

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
1,317	98		Unconnected roofs, HSG A
4,111	30		Woods, Good, HSG A
18,083	39		>75% Grass cover, Good, HSG A
23,511	41	39	Weighted Average, UI Adjusted
22,194			94.40% Pervious Area
1,317			5.60% Impervious Area
1,317			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
0.5	37	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
13.0	87	Total			

Summary for Subcatchment 58S: P1AA

Runoff = 0.71 cfs @ 12.52 hrs, Volume= 0.135 af, Depth> 0.32"
 Routed to Link 59L : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Adj	Description
1,776	98		Unconnected roofs, HSG C
20,134	70		Woods, Good, HSG C
38,005	74		>75% Grass cover, Good, HSG C
3,034	98		Unconnected roofs, HSG A
* 12,179	39		Pervious Pavement
84,195	30		Woods, Good, HSG A
57,506	39		>75% Grass cover, Good, HSG A
766	98		Unconnected pavement, HSG A
217,595	46	45	Weighted Average, UI Adjusted
212,019			97.44% Pervious Area
5,576			2.56% Impervious Area
5,576			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
1.9	80	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.4	130	Total			

Summary for Subcatchment 60S: P2C

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.046 af, Depth> 3.71"
Routed to Pond 62P : CB 66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,086	98	Unconnected roofs, HSG C
1,688	74	>75% Grass cover, Good, HSG C
2,712	98	Paved parking, HSG C
6,486	92	Weighted Average
1,688		26.03% Pervious Area
4,798		73.97% Impervious Area
2,086		43.48% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 61S: P2D

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 0.011 af, Depth> 4.00"
Routed to Pond 63P : CB 67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
190	74	>75% Grass cover, Good, HSG C
1,274	98	Paved parking, HSG C
1,464	95	Weighted Average
190		12.98% Pervious Area
1,274		87.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 62S: P2J

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 0.074 af, Depth> 3.61"
 Routed to Pond 69P : CB 72

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,207	98	Unconnected roofs, HSG C
2,897	74	>75% Grass cover, Good, HSG C
4,571	98	Paved parking, HSG C
10,675	91	Weighted Average
2,897		27.14% Pervious Area
7,778		72.86% Impervious Area
3,207		41.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 63S: P2K

Runoff = 0.66 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 3.71"
 Routed to Pond 70P : CB 73

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,542	74	>75% Grass cover, Good, HSG C
1,151	98	Unconnected roofs, HSG C
4,005	98	Paved parking, HSG C
6,698	92	Weighted Average
1,542		23.02% Pervious Area
5,156		76.98% Impervious Area
1,151		22.32% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 64S: P3L

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 3.51"
Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
965	74	>75% Grass cover, Good, HSG C
1,920	98	Paved parking, HSG C
2,885	90	Weighted Average
965		33.45% Pervious Area
1,920		66.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 65S: P3M

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 3.61"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,636	74	>75% Grass cover, Good, HSG C
1,756	98	Unconnected roofs, HSG C
2,005	98	Paved parking, HSG C
5,397	91	Weighted Average
1,636		30.31% Pervious Area
3,761		69.69% Impervious Area
1,756		46.69% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 66S: P3N

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 3.61"
Routed to Pond 83P : CB 86

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Type III 24-hr 10-Year Rainfall=4.83"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,108	74	>75% Grass cover, Good, HSG C
1,824	98	Unconnected roofs, HSG C
3,816	98	Paved parking, HSG C
7,748	91	Weighted Average
2,108		27.21% Pervious Area
5,640		72.79% Impervious Area
1,824		32.34% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 67S: P3O

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 3.81"
 Routed to Pond 84P : CB 87

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,792	74	>75% Grass cover, Good, HSG C
2,605	98	Unconnected roofs, HSG C
3,857	98	Paved parking, HSG C
8,254	93	Weighted Average
1,792		21.71% Pervious Area
6,462		78.29% Impervious Area
2,605		40.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 68S: P3P

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 0.030 af, Depth> 3.81"
 Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
802	74	>75% Grass cover, Good, HSG C
3,268	98	Paved parking, HSG C
4,070	93	Weighted Average
802		19.71% Pervious Area
3,268		80.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 69S: P2E

Runoff = 0.72 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 3.91"
Routed to Pond 66P : CB 68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,227	74	>75% Grass cover, Good, HSG C
1,596	98	Unconnected roofs, HSG C
4,265	98	Paved parking, HSG C
7,088	94	Weighted Average
1,227		17.31% Pervious Area
5,861		82.69% Impervious Area
1,596		27.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 70S: P2F

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 0.032 af, Depth> 4.26"
Routed to Pond 67P : CB 69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,932	98	Paved parking, HSG C
3,932		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 71S: P2A

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 0.074 af, Depth> 3.51"
Routed to Pond 73P : CB 64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
2,800	98	Unconnected roofs, HSG C
3,751	74	>75% Grass cover, Good, HSG C
4,427	98	Paved parking, HSG C
10,978	90	Weighted Average
3,751		34.17% Pervious Area
7,227		65.83% Impervious Area
2,800		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 72S: P2B

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af, Depth> 3.51"
Routed to Pond 74P : CB 65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,643	74	>75% Grass cover, Good, HSG C
4,920	98	Paved parking, HSG C
7,563	90	Weighted Average
2,643		34.95% Pervious Area
4,920		65.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 73S: P2G

Runoff = 0.79 cfs @ 12.09 hrs, Volume= 0.057 af, Depth> 3.61"
Routed to Pond 76P : CB 70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,345	74	>75% Grass cover, Good, HSG C
1,348	98	Unconnected roofs, HSG C
122	98	Unconnected roofs, HSG A
34	39	>75% Grass cover, Good, HSG A
673	98	Paved parking, HSG A
3,701	98	Paved parking, HSG C
8,223	91	Weighted Average
2,379		28.93% Pervious Area
5,844		71.07% Impervious Area
1,470		25.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 74S: P2H

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 4.00"
Routed to Pond 77P : CB 71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
200	39	>75% Grass cover, Good, HSG A
610	98	Unconnected roofs, HSG A
3,458	98	Paved parking, HSG A
4,268	95	Weighted Average
200		4.69% Pervious Area
4,068		95.31% Impervious Area
610		15.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 75S: P3Q

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 0.067 af, Depth> 3.41"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,641	74	>75% Grass cover, Good, HSG C
1,994	98	Unconnected roofs, HSG C
4,584	98	Paved parking, HSG C
10,219	89	Weighted Average
3,641		35.63% Pervious Area
6,578		64.37% Impervious Area
1,994		30.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 76S: P3R

Runoff = 1.34 cfs @ 12.09 hrs, Volume= 0.097 af, Depth> 3.71"
Routed to Pond 103P : CB 92

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,162	74	>75% Grass cover, Good, HSG C
4,063	98	Unconnected roofs, HSG C
6,424	98	Paved parking, HSG C
13,649	92	Weighted Average
3,162		23.17% Pervious Area
10,487		76.83% Impervious Area
4,063		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 77S: P3S

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af, Depth> 3.61"
Routed to Pond 102P : CB 93

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,358	74	>75% Grass cover, Good, HSG C
702	98	Unconnected roofs, HSG C
4,697	98	Paved parking, HSG C
7,757	91	Weighted Average
2,358		30.40% Pervious Area
5,399		69.60% Impervious Area
702		13.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 78S: P1S

Runoff = 1.09 cfs @ 12.09 hrs, Volume= 0.075 af, Depth> 3.11"
Routed to Pond 112P : CB 45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
4,541	74	>75% Grass cover, Good, HSG C
2,275	98	Unconnected roofs, HSG C
693	39	>75% Grass cover, Good, HSG A
412	98	Paved parking, HSG A
4,709	98	Paved parking, HSG C
12,630	86	Weighted Average
5,234		41.44% Pervious Area
7,396		58.56% Impervious Area
2,275		30.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 79S: P1T

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af, Depth> 3.61"
 Routed to Pond 122P : CB 46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,187	74	>75% Grass cover, Good, HSG C
2,930	98	Unconnected roofs, HSG C
118	39	>75% Grass cover, Good, HSG A
214	98	Paved parking, HSG A
5,533	98	Paved parking, HSG C
11,982	91	Weighted Average
3,305		27.58% Pervious Area
8,677		72.42% Impervious Area
2,930		33.77% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 80S: P3KK

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 2.92"
 Routed to Pond 125P : CB 36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
1,989	39	>75% Grass cover, Good, HSG A
4,268	98	Unconnected roofs, HSG A
2,300	98	Paved parking, HSG A
8,557	84	Weighted Average
1,989		23.24% Pervious Area
6,568		76.76% Impervious Area
4,268		64.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 81S: P3LL

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 0.058 af, Depth> 3.11"
Routed to Pond 126P : CB 37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,037	39	>75% Grass cover, Good, HSG A
4,991	98	Unconnected roofs, HSG A
2,757	98	Paved parking, HSG A
9,785	86	Weighted Average
2,037		20.82% Pervious Area
7,748		79.18% Impervious Area
4,991		64.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 82S: P3SS

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 2.48"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
4,180	39	>75% Grass cover, Good, HSG A
3,055	98	Unconnected roofs, HSG A
5,645	98	Paved parking, HSG A
12,880	79	Weighted Average
4,180		32.45% Pervious Area
8,700		67.55% Impervious Area
3,055		35.11% Unconnected

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Type III 24-hr 10-Year Rainfall=4.83"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 83S: P2I

Runoff = 0.97 cfs @ 12.09 hrs, Volume= 0.066 af, Depth> 2.48"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,861	39	>75% Grass cover, Good, HSG A
1,821	98	Unconnected roofs, HSG A
3,857	74	>75% Grass cover, Good, HSG C
597	98	Paved parking, HSG C
4,711	98	Paved parking, HSG A
13,847	79	Weighted Average
6,718		48.52% Pervious Area
7,129		51.48% Impervious Area
1,821		25.54% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 84S: P2AA

Runoff = 3.54 cfs @ 12.12 hrs, Volume= 0.259 af, Depth> 1.91"
 Routed to Link 60L : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
2,224	98		Unconnected roofs, HSG C
1,231	98		Unconnected pavement, HSG C
37,322	70		Woods, Good, HSG C
27,161	74		>75% Grass cover, Good, HSG C
242	98		Unconnected pavement, HSG A
1,399	39		>75% Grass cover, Good, HSG A
1,546	98		Unconnected roofs, HSG A
71,125	73	72	Weighted Average, UI Adjusted
65,882			92.63% Pervious Area
5,243			7.37% Impervious Area
5,243			100.00% Unconnected

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Type III 24-hr 10-Year Rainfall=4.83"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.4	68	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	57	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	26	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	201	Total			

Summary for Subcatchment 85S: (new Subcat)

Runoff = 2.03 cfs @ 12.09 hrs, Volume= 0.139 af, Depth> 2.83"
Routed to Pond 86P : Sub. Inf. 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,553	98	Roofs, HSG C
3,904	98	Unconnected pavement, HSG C
16,193	74	>75% Grass cover, Good, HSG C
25,650	83	Weighted Average
16,193		63.13% Pervious Area
9,457		36.87% Impervious Area
3,904		41.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 86S: P3TT

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 0.064 af, Depth> 2.39"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
956	98	Unconnected roofs, HSG C
672	74	>75% Grass cover, Good, HSG C
4,346	39	>75% Grass cover, Good, HSG A
1,468	98	Unconnected roofs, HSG A
6,484	98	Paved parking, HSG A
13,926	78	Weighted Average
5,018		36.03% Pervious Area
8,908		63.97% Impervious Area
2,424		27.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 87S: P3A

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.017 af, Depth> 3.81"
Routed to Pond 89P : CB 74

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
450	74	>75% Grass cover, Good, HSG C
1,823	98	Paved parking, HSG C
2,273	93	Weighted Average
450		19.80% Pervious Area
1,823		80.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 88S: P3B

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af, Depth> 3.71"
Routed to Pond 90P : CB 75

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,048	74	>75% Grass cover, Good, HSG C
1,562	98	Unconnected roofs, HSG C
1,928	98	Paved parking, HSG C
4,538	92	Weighted Average
1,048		23.09% Pervious Area
3,490		76.91% Impervious Area
1,562		44.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 89S: P3AAA

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af, Depth> 2.83"
Routed to Pond 151P : CB 22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,761	39	>75% Grass cover, Good, HSG A
5,184	98	Paved parking, HSG A
6,945	83	Weighted Average
1,761		25.36% Pervious Area
5,184		74.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 90S: P3BBB

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 2.48"
Routed to Pond 152P : CB 23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,961	39	>75% Grass cover, Good, HSG A
2,084	98	Unconnected roofs, HSG A
4,096	98	Paved parking, HSG A
9,141	79	Weighted Average
2,961		32.39% Pervious Area
6,180		67.61% Impervious Area
2,084		33.72% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 91S: P3GGG

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 2.39"
Routed to Pond 165P : CB 19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
3,041	39	>75% Grass cover, Good, HSG A
3,271	98	Unconnected roofs, HSG A
2,810	98	Paved parking, HSG A
9,122	78	Weighted Average
3,041		33.34% Pervious Area
6,081		66.66% Impervious Area
3,271		53.79% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 92S: P3C

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 3.61"
 Routed to Pond 95P : CB 76

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,796	74	>75% Grass cover, Good, HSG C
348	98	Unconnected roofs, HSG C
3,984	98	Paved parking, HSG C
6,128	91	Weighted Average
1,796		29.31% Pervious Area
4,332		70.69% Impervious Area
348		8.03% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 93S: P3D

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 3.61"
 Routed to Pond 94P : CB 77

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,560	74	>75% Grass cover, Good, HSG C
1,771	98	Unconnected roofs, HSG C
4,562	98	Paved parking, HSG C
8,893	91	Weighted Average
2,560		28.79% Pervious Area
6,333		71.21% Impervious Area
1,771		27.96% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 94S: P3HHH

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af, Depth> 2.92"
Routed to Pond 154P : CB 18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,098	39	>75% Grass cover, Good, HSG A
3,837	98	Unconnected roofs, HSG A
3,091	98	Paved parking, HSG A
9,026	84	Weighted Average
2,098		23.24% Pervious Area
6,928		76.76% Impervious Area
3,837		55.38% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 95S: P2X

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 4.26"
Routed to Pond 79P : DMH 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
6,460	98	Paved parking, HSG C
6,460		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 97S: P3G

Runoff = 1.64 cfs @ 12.09 hrs, Volume= 0.118 af, Depth> 3.71"
Routed to Pond 100P : CB 80

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
4,471	74	>75% Grass cover, Good, HSG C
3,720	98	Unconnected roofs, HSG C
8,474	98	Paved parking, HSG C
16,665	92	Weighted Average
4,471		26.83% Pervious Area
12,194		73.17% Impervious Area
3,720		30.51% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 98S: P3H

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 0.075 af, Depth> 3.51"
 Routed to Pond 99P : CB 81

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,581	74	>75% Grass cover, Good, HSG C
2,279	98	Unconnected roofs, HSG C
5,358	98	Paved parking, HSG C
11,218	90	Weighted Average
3,581		31.92% Pervious Area
7,637		68.08% Impervious Area
2,279		29.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: P3J

Runoff = 1.38 cfs @ 12.09 hrs, Volume= 0.097 af, Depth> 3.41"
 Routed to Pond 104P : CB 83

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,342	74	>75% Grass cover, Good, HSG C
2,771	98	Unconnected roofs, HSG C
6,812	98	Paved parking, HSG C
14,925	89	Weighted Average
5,342		35.79% Pervious Area
9,583		64.21% Impervious Area
2,771		28.92% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 103S: P3I

Runoff = 2.16 cfs @ 12.09 hrs, Volume= 0.156 af, Depth> 3.71"
 Routed to Pond 105P : CB 82

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,534	74	>75% Grass cover, Good, HSG C
6,057	98	Unconnected roofs, HSG C
10,372	98	Paved parking, HSG C
21,963	92	Weighted Average
5,534		25.20% Pervious Area
16,429		74.80% Impervious Area
6,057		36.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 107S: P3E

Runoff = 1.59 cfs @ 12.09 hrs, Volume= 0.112 af, Depth> 3.41"
 Routed to Pond 110P : CB 78

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
6,163	74	>75% Grass cover, Good, HSG C
2,724	98	Unconnected roofs, HSG C
8,355	98	Paved parking, HSG C
17,242	89	Weighted Average
6,163		35.74% Pervious Area
11,079		64.26% Impervious Area
2,724		24.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 108S: P3F

Runoff = 1.84 cfs @ 12.09 hrs, Volume= 0.130 af, Depth> 3.41"
Routed to Pond 109P : CB 79

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
7,073	74	>75% Grass cover, Good, HSG C
5,397	98	Unconnected roofs, HSG C
7,421	98	Paved parking, HSG C
19,891	89	Weighted Average
7,073		35.56% Pervious Area
12,818		64.44% Impervious Area
5,397		42.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 109S: P3T

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 3.91"
Routed to Pond 116P : CB 90

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
773	74	>75% Grass cover, Good, HSG C
4,122	98	Paved parking, HSG C
4,895	94	Weighted Average
773		15.79% Pervious Area
4,122		84.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 110S: P3U

Runoff = 1.18 cfs @ 12.09 hrs, Volume= 0.085 af, Depth> 3.71"
Routed to Pond 115P : CB 91

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,921	74	>75% Grass cover, Good, HSG C
6,099	98	Unconnected roofs, HSG C
2,977	98	Paved parking, HSG C
11,997	92	Weighted Average
2,921		24.35% Pervious Area
9,076		75.65% Impervious Area
6,099		67.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 111S: P3V

Runoff = 1.24 cfs @ 12.09 hrs, Volume= 0.091 af, Depth> 3.81"
Routed to Pond 114P : CB 94

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,412	74	>75% Grass cover, Good, HSG C
5,977	98	Unconnected roofs, HSG C
4,046	98	Paved parking, HSG C
12,435	93	Weighted Average
2,412		19.40% Pervious Area
10,023		80.60% Impervious Area
5,977		59.63% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 112S: P3W

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 0.064 af, Depth> 4.10"
Routed to Pond 113P : CB 95

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
719	74	>75% Grass cover, Good, HSG C
7,508	98	Paved parking, HSG C
8,227	96	Weighted Average
719		8.74% Pervious Area
7,508		91.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 125S: P3EE

Runoff = 0.80 cfs @ 12.10 hrs, Volume= 0.057 af, Depth> 1.27"
Routed to Pond 132P : CB 33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
13,700	39	>75% Grass cover, Good, HSG A
9,600	98	Paved parking, HSG A
23,300	63	Weighted Average
13,700		58.80% Pervious Area
9,600		41.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 126S: P3FF

Runoff = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af, Depth> 1.83"
Routed to Pond 129P : CB 34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,177	39	>75% Grass cover, Good, HSG A
4,336	98	Unconnected roofs, HSG A
1,799	98	Paved parking, HSG A
11,312	71	Weighted Average
5,177		45.77% Pervious Area
6,135		54.23% Impervious Area
4,336		70.68% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 128S: P3HH

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 0.021 af, Depth> 1.21"
Routed to Pond 131P : CB 35

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Type III 24-hr 10-Year Rainfall=4.83"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
5,501	39	>75% Grass cover, Good, HSG A
2,801	98	Unconnected roofs, HSG A
824	98	Paved parking, HSG A
9,126	62	Weighted Average
5,501		60.28% Pervious Area
3,625		39.72% Impervious Area
2,801		77.27% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 129S: P3MM

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af, Depth> 2.39"
 Routed to Pond 136P : CB 38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,648	39	>75% Grass cover, Good, HSG A
2,583	98	Unconnected roofs, HSG A
2,610	98	Paved parking, HSG A
7,841	78	Weighted Average
2,648		33.77% Pervious Area
5,193		66.23% Impervious Area
2,583		49.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 130S: P3NN

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 2.74"
 Routed to Pond 138P : CB 39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,726	39	>75% Grass cover, Good, HSG A
1,686	98	Unconnected roofs, HSG A
2,883	98	Paved parking, HSG A
6,295	82	Weighted Average
1,726		27.42% Pervious Area
4,569		72.58% Impervious Area
1,686		36.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 136S: P3II

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 0.065 af, Depth> 3.11"
Routed to Pond 137P : CB 44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,148	39	>75% Grass cover, Good, HSG A
4,052	98	Unconnected roofs, HSG A
4,700	98	Paved parking, HSG A
10,900	86	Weighted Average
2,148		19.71% Pervious Area
8,752		80.29% Impervious Area
4,052		46.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 138S: P3JJ

Runoff = 0.02 cfs @ 12.46 hrs, Volume= 0.005 af, Depth> 0.19"
Routed to Pond 246P : Sub. Inf. 3D

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
989	98		Unconnected roofs, HSG A
13,225	39		>75% Grass cover, Good, HSG A
14,214	43	41	Weighted Average, UI Adjusted
13,225			93.04% Pervious Area
989			6.96% Impervious Area
989			100.00% Unconnected

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Type III 24-hr 10-Year Rainfall=4.83"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 140S: P300

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 0.082 af, Depth> 2.39"
Routed to Pond 142P : CB 40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
6,065	39	>75% Grass cover, Good, HSG A
5,813	98	Unconnected roofs, HSG A
5,951	98	Paved parking, HSG A
17,829	78	Weighted Average
6,065		34.02% Pervious Area
11,764		65.98% Impervious Area
5,813		49.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 141S: P3PP

Runoff = 1.70 cfs @ 12.09 hrs, Volume= 0.115 af, Depth> 2.39"
Routed to Pond 143P : CB 41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
8,502	39	>75% Grass cover, Good, HSG A
8,019	98	Unconnected roofs, HSG A
8,610	98	Paved parking, HSG A
25,131	78	Weighted Average
8,502		33.83% Pervious Area
16,629		66.17% Impervious Area
8,019		48.22% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 142S: P3UU

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.017 af, Depth> 2.74"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
915	39	>75% Grass cover, Good, HSG A
2,416	98	Paved parking, HSG A
3,331	82	Weighted Average
915		27.47% Pervious Area
2,416		72.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 143S: P3VV

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 2.83"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
906	39	>75% Grass cover, Good, HSG A
2,555	98	Paved parking, HSG A
3,461	83	Weighted Average
906		26.18% Pervious Area
2,555		73.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 147S: P3QQ

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.051 af, Depth> 3.11"
Routed to Pond 148P : CB 43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
1,691	39	>75% Grass cover, Good, HSG A
2,319	98	Unconnected roofs, HSG A
4,534	98	Paved parking, HSG A
8,544	86	Weighted Average
1,691		19.79% Pervious Area
6,853		80.21% Impervious Area
2,319		33.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 149S: P3RR

Runoff = 0.01 cfs @ 12.43 hrs, Volume= 0.003 af, Depth> 0.22"
Routed to Pond 240P : Sub. Inf. 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
803	98		Unconnected roofs, HSG A
7,150	39		>75% Grass cover, Good, HSG A
7,953	45	42	Weighted Average, UI Adjusted
7,150			89.90% Pervious Area
803			10.10% Impervious Area
803			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 151S: P3ZZ

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af, Depth> 3.11"
Routed to Pond 159P : CB 25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,297	39	>75% Grass cover, Good, HSG A
5,062	98	Paved parking, HSG A
6,359	86	Weighted Average
1,297		20.40% Pervious Area
5,062		79.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 152S: P3YY

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 2.65"
Routed to Pond 158P : CB 24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,505	39	>75% Grass cover, Good, HSG A
3,584	98	Paved parking, HSG A
5,089	81	Weighted Average
1,505		29.57% Pervious Area
3,584		70.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 153S: P3WW

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 2.83"
Routed to Pond 155P : CB 27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,428	39	>75% Grass cover, Good, HSG A
2,576	98	Unconnected roofs, HSG A
4,570	98	Paved parking, HSG A
9,574	83	Weighted Average
2,428		25.36% Pervious Area
7,146		74.64% Impervious Area
2,576		36.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 154S: P3XX

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 3.71"
Routed to Pond 156P : CB 26

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Type III 24-hr 10-Year Rainfall=4.83"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
467	39	>75% Grass cover, Good, HSG A
2,369	98	Unconnected roofs, HSG A
1,866	98	Paved parking, HSG A
4,702	92	Weighted Average
467		9.93% Pervious Area
4,235		90.07% Impervious Area
2,369		55.94% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 155S: P3CCC

Runoff = 0.85 cfs @ 12.09 hrs, Volume= 0.058 af, Depth> 2.22"
 Routed to Pond 163P : CB 14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
4,959	39	>75% Grass cover, Good, HSG A
1,047	98	Unconnected roofs, HSG A
7,531	98	Paved parking, HSG A
13,537	76	Weighted Average
4,959		36.63% Pervious Area
8,578		63.37% Impervious Area
1,047		12.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 156S: P3DDD

Runoff = 1.07 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 2.22"
 Routed to Pond 162P : CB 15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
6,264	39	>75% Grass cover, Good, HSG A
3,815	98	Unconnected roofs, HSG A
6,922	98	Paved parking, HSG A
17,001	76	Weighted Average
6,264		36.84% Pervious Area
10,737		63.16% Impervious Area
3,815		35.53% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 165S: P3FFF

Runoff = 0.22 cfs @ 12.11 hrs, Volume= 0.017 af, Depth> 0.91"
Routed to Pond 168P : CB 10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
7,041	39	>75% Grass cover, Good, HSG A
3,025	98	Paved parking, HSG A
10,066	57	Weighted Average
7,041		69.95% Pervious Area
3,025		30.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 166S: P3EEE

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 2.39"
Routed to Pond 167P : CB 11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,114	39	>75% Grass cover, Good, HSG A
3,120	98	Paved parking, HSG A
2,866	98	Unconnected roofs, HSG A
9,100	78	Weighted Average
3,114		34.22% Pervious Area
5,986		65.78% Impervious Area
2,866		47.88% Unconnected

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Type III 24-hr 10-Year Rainfall=4.83"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 170S: P3JJJ

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 2.92"
 Routed to Pond 172P : CB 16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,334	39	>75% Grass cover, Good, HSG A
6,476	98	Unconnected roofs, HSG A
3,993	98	Paved parking, HSG A
13,803	84	Weighted Average
3,334		24.15% Pervious Area
10,469		75.85% Impervious Area
6,476		61.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 171S: P3III

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af, Depth> 2.65"
 Routed to Pond 173P : CB 17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,629	39	>75% Grass cover, Good, HSG A
1,823	98	Unconnected roofs, HSG A
2,201	98	Paved parking, HSG A
5,653	81	Weighted Average
1,629		28.82% Pervious Area
4,024		71.18% Impervious Area
1,823		45.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 175S: P3KKK

Runoff = 0.91 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 2.31"
Routed to Pond 177P : CB 13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
4,945	39	>75% Grass cover, Good, HSG A
3,545	98	Unconnected roofs, HSG A
5,414	98	Paved parking, HSG A
13,904	77	Weighted Average
4,945		35.57% Pervious Area
8,959		64.43% Impervious Area
3,545		39.57% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 176S: P3LLL

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 2.14"
Routed to Pond 178P : CB 12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,605	39	>75% Grass cover, Good, HSG A
958	98	Unconnected roofs, HSG A
3,077	98	Paved parking, HSG A
6,640	75	Weighted Average
2,605		39.23% Pervious Area
4,035		60.77% Impervious Area
958		23.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 182S: P3MMM

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 0.019 af, Depth> 1.99"
Routed to Pond 61P : CB 8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
2,196	39	>75% Grass cover, Good, HSG A
413	98	Unconnected roofs, HSG A
2,502	98	Paved parking, HSG A
5,111	73	Weighted Average
2,196		42.97% Pervious Area
2,915		57.03% Impervious Area
413		14.17% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 183S: P3NNN

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 2.14"
Routed to Pond 170P : CB 9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,796	39	>75% Grass cover, Good, HSG A
2,443	98	Unconnected roofs, HSG A
3,632	98	Paved parking, HSG A
9,871	75	Weighted Average
3,796		38.46% Pervious Area
6,075		61.54% Impervious Area
2,443		40.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 184S: P3000

Runoff = 0.49 cfs @ 12.10 hrs, Volume= 0.033 af, Depth> 1.99"
Routed to Pond 176P : CB 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,656	39	>75% Grass cover, Good, HSG A
1,177	98	Unconnected roofs, HSG A
3,814	98	Paved parking, HSG A
8,647	73	Weighted Average
3,656		42.28% Pervious Area
4,991		57.72% Impervious Area
1,177		23.58% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 185S: P3PPP

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.025 af, Depth> 2.83"
 Routed to Pond 182P : CB 7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,135	39	>75% Grass cover, Good, HSG A
1,267	98	Unconnected roofs, HSG A
2,170	98	Paved parking, HSG A
4,572	83	Weighted Average
1,135		24.83% Pervious Area
3,437		75.17% Impervious Area
1,267		36.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 186S: P3QQQ

Runoff = 0.34 cfs @ 12.10 hrs, Volume= 0.023 af, Depth> 1.76"
 Routed to Pond 188P : CB 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,125	39	>75% Grass cover, Good, HSG A
992	30	Woods, Good, HSG A
3,757	98	Paved parking, HSG A
6,874	70	Weighted Average
3,117		45.34% Pervious Area
3,757		54.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 187S: P3RRR

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 2.56"
 Routed to Pond 189P : CB 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,803	39	>75% Grass cover, Good, HSG A
2,556	98	Unconnected roofs, HSG A
5,935	98	Paved parking, HSG A
12,294	80	Weighted Average
3,803		30.93% Pervious Area
8,491		69.07% Impervious Area
2,556		30.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 189S: (new Subcat)

Runoff = 2.54 cfs @ 12.37 hrs, Volume= 0.318 af, Depth> 0.74"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
56,652	30	Woods, Good, HSG A
56,569	70	Woods, Good, HSG C
2,509	98	Unconnected roofs, HSG C
1,351	98	Unconnected pavement, HSG C
3,066	98	Unconnected roofs, HSG A
1,335	98	Unconnected pavement, HSG A
49,779	74	>75% Grass cover, Good, HSG C
54,766	39	>75% Grass cover, Good, HSG A
226,027	54	Weighted Average
217,766		96.35% Pervious Area
8,261		3.65% Impervious Area
8,261		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.3	272	0.0450	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.8	322	Total			

Summary for Subcatchment 190S: (new Subcat)

Runoff = 1.14 cfs @ 12.09 hrs, Volume= 0.081 af, Depth> 3.51"
Routed to Pond 191P : CB 42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,763	98	Unconnected roofs, HSG A
1,707	39	>75% Grass cover, Good, HSG A
6,608	98	Paved parking, HSG A
12,078	90	Weighted Average
1,707		14.13% Pervious Area
10,371		85.87% Impervious Area
3,763		36.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 191S: P3SSS

Runoff = 0.11 cfs @ 12.12 hrs, Volume= 0.010 af, Depth> 0.69"
Routed to Pond 193P : CB 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
1,068	39	>75% Grass cover, Good, HSG A
4,042	30	Woods, Good, HSG A
2,372	98	Paved parking, HSG A
7,482	53	Weighted Average
5,110		68.30% Pervious Area
2,372		31.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 192S: P3TTT

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 2.83"
Routed to Pond 194P : CB 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Description
1,044	39	>75% Grass cover, Good, HSG A
3,031	98	Paved parking, HSG A
4,075	83	Weighted Average
1,044		25.62% Pervious Area
3,031		74.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 195S: P3UUU

Runoff = 1.26 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 3.11"
 Routed to Pond 196P : CB 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
2,892	39	>75% Grass cover, Good, HSG A
4,558	98	Unconnected roofs, HSG A
7,174	98	Paved parking, HSG A
14,624	86	Weighted Average
2,892		19.78% Pervious Area
11,732		80.22% Impervious Area
4,558		38.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 198S: P3VVV

Runoff = 0.01 cfs @ 13.65 hrs, Volume= 0.003 af, Depth> 0.13"
 Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
12,434	39	>75% Grass cover, Good, HSG A
12,434		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 202S: P3GG

Runoff = 1.06 cfs @ 12.10 hrs, Volume= 0.073 af, Depth> 1.47"
 Routed to Pond 201P : Sub. Inf. 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
9,091	98	Unconnected roofs, HSG A
2,905	98	Unconnected pavement, HSG A
14,042	39	>75% Grass cover, Good, HSG A
26,038	66	Weighted Average
14,042		53.93% Pervious Area
11,996		46.07% Impervious Area
11,996		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 204S: (new Subcat)

Runoff = 0.03 cfs @ 15.44 hrs, Volume= 0.013 af, Depth> 0.04"
 Routed to Link 203L : 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Adj	Description
76,501	30		Woods, Good, HSG A
76,716	39		>75% Grass cover, Good, HSG A
1,878	98		Unconnected roofs, HSG A
1,671	98		Unconnected pavement, HSG A
156,766	36	35	Weighted Average, UI Adjusted
153,217			97.74% Pervious Area
3,549			2.26% Impervious Area
3,549			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
0.6	85	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	135	Total			

Summary for Subcatchment 205S: (new Subcat)

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af, Depth> 2.31"
Routed to Pond 218P : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
4,257	98	Paved parking, HSG A
1,759	98	Unconnected roofs, HSG A
3,306	39	>75% Grass cover, Good, HSG A
9,322	77	Weighted Average
3,306		35.46% Pervious Area
6,016		64.54% Impervious Area
1,759		29.24% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 206S: (new Subcat)

Runoff = 0.01 cfs @ 13.65 hrs, Volume= 0.004 af, Depth> 0.13"
Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
15,098	39	>75% Grass cover, Good, HSG A
15,098		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 207S: (new Subcat)

Runoff = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af, Depth> 0.13"
Routed to Pond 216P : CB 8A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

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Area (sf)	CN	Adj	Description
1,937	98		Unconnected roofs, HSG A
1,504	98		Paved parking, HSG A
16,314	30		Woods, Good, HSG A
1,313	39		>75% Grass cover, Good, HSG A
21,068	42	39	Weighted Average, UI Adjusted
17,627			83.67% Pervious Area
3,441			16.33% Impervious Area
1,937			56.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	50	0.0250	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.2	106	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.7	156	Total			

Summary for Subcatchment 216S: (new Subcat)

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 3.02"
Routed to Pond 215P : CB 5A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
3,069	98	Paved parking, HSG A
1,946	98	Unconnected roofs, HSG A
1,471	39	>75% Grass cover, Good, HSG A
6,486	85	Weighted Average
1,471		22.68% Pervious Area
5,015		77.32% Impervious Area
1,946		38.80% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 240S: P3EE2

Runoff = 0.75 cfs @ 12.00 hrs, Volume= 0.049 af, Depth> 4.26"
Routed to Pond 249P : SUB.INF 3E

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
6,060	98	Roofs, HSG A
6,060		100.00% Impervious Area

Summary for Subcatchment 249S: P3EE1

Runoff = 1.67 cfs @ 12.00 hrs, Volume= 0.103 af, Depth> 3.71"
Routed to Pond 248P : SUB.INF 3F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
7,986	98	Roofs, HSG A
4,978	98	Paved parking, HSG A
1,525	39	>75% Grass cover, Good, HSG A
14,489	92	Weighted Average
1,525		10.53% Pervious Area
12,964		89.47% Impervious Area

Summary for Subcatchment EA1: Emerg, Access Culvrt

Runoff = 0.94 cfs @ 12.01 hrs, Volume= 0.055 af, Depth> 1.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-Year Rainfall=4.83"

Area (sf)	CN	Description
7,168	39	>75% Grass cover, Good, HSG A
8,378	98	Paved parking, HSG A
15,546	71	Weighted Average
7,168		46.11% Pervious Area
8,378		53.89% Impervious Area

Summary for Reach 204R: WATER QUALTY SWALW

Inflow Area = 0.705 ac, 57.45% Impervious, Inflow Depth > 1.96" for 10-Year event
Inflow = 1.66 cfs @ 12.10 hrs, Volume= 0.115 af
Outflow = 1.38 cfs @ 12.25 hrs, Volume= 0.114 af, Atten= 17%, Lag= 9.3 min
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.34 fps, Min. Travel Time= 5.6 min
Avg. Velocity= 0.12 fps, Avg. Travel Time= 15.5 min

Peak Storage= 468 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.68' , Surface Width= 8.05'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 59.02 cfs

4.00' x 4.00' deep channel, n= 0.080 Earth, long dense weeds
 Side Slope Z-value= 3.0 '/' Top Width= 28.00'
 Length= 115.0' Slope= 0.0009 '/'
 Inlet Invert= 45.80', Outlet Invert= 45.70'



Summary for Pond 15P: Det. Basin 5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 2.78" for 10-Year event
 Inflow = 7.91 cfs @ 12.10 hrs, Volume= 0.463 af
 Outflow = 0.69 cfs @ 13.05 hrs, Volume= 0.263 af, Atten= 91%, Lag= 56.8 min
 Primary = 0.69 cfs @ 13.05 hrs, Volume= 0.263 af
 Routed to Pond 212P : level spreader DB5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.98' @ 13.05 hrs Surf.Area= 7,081 sf Storage= 12,118 cf

Plug-Flow detention time= 182.0 min calculated for 0.262 af (57% of inflow)
 Center-of-Mass det. time= 117.2 min (905.7 - 788.5)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	28,519 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,169	0	0
53.00	6,098	5,634	5,634
54.00	7,097	6,598	12,231
55.00	8,158	7,628	19,859
56.00	9,163	8,661	28,519

Device	Routing	Invert	Outlet Devices
#1	Primary	51.70'	18.0" Round Culvert L= 53.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 51.70' / 51.50' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	1.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.35'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 1	54.70'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.69 cfs @ 13.05 hrs HW=53.98' (Free Discharge)

- 1=Culvert (Passes 0.69 cfs of 8.95 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 6.66 fps)
- 3=Orifice/Grate (Orifice Controls 0.59 cfs @ 2.98 fps)
- 4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond 16P: CB 58

Inflow Area = 0.172 ac, 96.61% Impervious, Inflow Depth > 4.19" for 10-Year event
 Inflow = 0.79 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.79 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.79 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.65' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.77 cfs @ 12.09 hrs HW=62.64' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.77 cfs @ 2.54 fps)

Summary for Pond 17P: CB 59

Inflow Area = 0.381 ac, 74.19% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 1.63 cfs @ 12.09 hrs, Volume= 0.118 af
 Outflow = 1.63 cfs @ 12.09 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.63 cfs @ 12.09 hrs, Volume= 0.118 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.59 cfs @ 12.09 hrs HW=62.96' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.59 cfs @ 2.97 fps)

Summary for Pond 18P: CB 63

Inflow Area = 0.140 ac, 64.30% Impervious, Inflow Depth > 3.41" for 10-Year event
 Inflow = 0.56 cfs @ 12.09 hrs, Volume= 0.040 af
 Outflow = 0.56 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.56 cfs @ 12.09 hrs, Volume= 0.040 af
 Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=64.33' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.55 cfs @ 2.34 fps)

Summary for Pond 19P: CB 62

Inflow Area = 0.064 ac, 81.50% Impervious, Inflow Depth > 3.91" for 10-Year event
Inflow = 0.28 cfs @ 12.09 hrs, Volume= 0.021 af
Outflow = 0.28 cfs @ 12.09 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.09 hrs, Volume= 0.021 af
Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=64.18' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.27 cfs @ 2.03 fps)

Summary for Pond 20P: DMH 43

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 3.86" for 10-Year event
Inflow = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af
Outflow = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af, Atten= 0%, Lag= 0.0 min
Primary = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af
Routed to Pond 21P : DMH 42

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.90'	12.0" Round Culvert L= 66.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.90' / 61.57' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.36 cfs @ 12.09 hrs HW=63.02' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.36 cfs @ 3.00 fps)

Summary for Pond 21P: DMH 42

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 3.86" for 10-Year event
 Inflow = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af
 Outflow = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.42 cfs @ 12.09 hrs, Volume= 0.178 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	12.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.47' / 61.10' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.35 cfs @ 12.09 hrs HW=62.59' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.35 cfs @ 3.00 fps)

Summary for Pond 22P: CB 56

Inflow Area = 0.127 ac, 100.00% Impervious, Inflow Depth > 4.26" for 10-Year event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 0.045 af
 Outflow = 0.58 cfs @ 12.09 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 12.09 hrs, Volume= 0.045 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.09 hrs HW=61.65' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.57 cfs @ 2.41 fps)

Summary for Pond 23P: CB 57

Inflow Area = 0.315 ac, 81.38% Impervious, Inflow Depth > 3.91" for 10-Year event
 Inflow = 1.39 cfs @ 12.09 hrs, Volume= 0.102 af
 Outflow = 1.39 cfs @ 12.09 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.39 cfs @ 12.09 hrs, Volume= 0.102 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.35 cfs @ 12.09 hrs HW=61.96' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.35 cfs @ 2.93 fps)

Summary for Pond 24P: DMH 41

Inflow Area = 0.994 ac, 83.63% Impervious, Inflow Depth > 3.92" for 10-Year event
 Inflow = 4.39 cfs @ 12.09 hrs, Volume= 0.325 af
 Outflow = 4.39 cfs @ 12.09 hrs, Volume= 0.325 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.39 cfs @ 12.09 hrs, Volume= 0.325 af
 Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	18.0" Round Culvert L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 59.23' S= 0.0322 ' S= 0.0322 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.28 cfs @ 12.09 hrs HW=62.17' (Free Discharge)

↑**1=Culvert** (Inlet Controls 4.28 cfs @ 2.90 fps)

Summary for Pond 25P: DMH 45

Inflow Area = 0.203 ac, 69.67% Impervious, Inflow Depth > 3.56" for 10-Year event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.84 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.84 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.22' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.68'	12.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.68' / 62.20' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=64.21' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.82 cfs @ 1.95 fps)

Summary for Pond 26P: CB 61

Inflow Area = 0.265 ac, 66.20% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af
 Outflow = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.98' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.06 cfs @ 12.09 hrs HW=62.97' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.06 cfs @ 2.69 fps)

Summary for Pond 27P: CB 60

Inflow Area = 0.111 ac, 71.39% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af
 Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=62.70' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.45 cfs @ 2.25 fps)

Summary for Pond 28P: DMH 44

Inflow Area = 0.579 ac, 68.41% Impervious, Inflow Depth > 3.55" for 10-Year event
 Inflow = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af
 Outflow = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af
 Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 63.24' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 85.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 59.23' S= 0.0338 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.34 cfs @ 12.09 hrs HW=63.21' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.34 cfs @ 2.98 fps)**Summary for Pond 29P: DMH 40**

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 3.79" for 10-Year event
Inflow = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af
Outflow = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af, Atten= 0%, Lag= 0.0 min
Primary = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af
Routed to Pond 38P : DMH 39

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.13'	24.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.13' / 58.83' S= 0.0120 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.96 cfs @ 12.09 hrs HW=60.49' (Free Discharge)↑**1=Culvert** (Barrel Controls 6.96 cfs @ 4.32 fps)**Summary for Pond 30P: CB 55**

Inflow Area = 0.083 ac, 78.43% Impervious, Inflow Depth > 3.81" for 10-Year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.026 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.026 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.23'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.23' / 59.23' S= 0.0667 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=60.56' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.35 cfs @ 1.55 fps)

Summary for Pond 31P: CB 51

Inflow Area = 0.044 ac, 96.85% Impervious, Inflow Depth > 4.19" for 10-Year event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af
 Outflow = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=60.55' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.20 cfs @ 1.89 fps)

Summary for Pond 32P: CB 52

Inflow Area = 0.225 ac, 78.85% Impervious, Inflow Depth > 3.81" for 10-Year event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.93' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=60.92' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.96 cfs @ 2.67 fps)

Summary for Pond 33P: CB 53

Inflow Area = 0.044 ac, 100.00% Impervious, Inflow Depth > 4.26" for 10-Year event
 Inflow = 0.21 cfs @ 12.09 hrs, Volume= 0.016 af
 Outflow = 0.21 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.21 cfs @ 12.09 hrs, Volume= 0.016 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.01' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.76'	12.0" Round Culvert L= 9.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.76' / 59.76' S= 0.1111 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=61.01' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.20 cfs @ 1.33 fps)**Summary for Pond 34P: DMH 36**

Inflow Area = 0.270 ac, 81.82% Impervious, Inflow Depth > 3.87" for 10-Year event
Inflow = 1.18 cfs @ 12.09 hrs, Volume= 0.087 af
Outflow = 1.18 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.09 hrs, Volume= 0.087 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.79' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 67.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.76' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.15 cfs @ 12.09 hrs HW=60.78' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.15 cfs @ 2.87 fps)**Summary for Pond 35P: DMH 37**

Inflow Area = 0.244 ac, 95.52% Impervious, Inflow Depth > 4.20" for 10-Year event
Inflow = 1.12 cfs @ 12.09 hrs, Volume= 0.085 af
Outflow = 1.12 cfs @ 12.09 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
Primary = 1.12 cfs @ 12.09 hrs, Volume= 0.085 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.66'	12.0" Round Culvert L= 52.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.66' / 59.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.09 cfs @ 12.09 hrs HW=60.32' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.09 cfs @ 2.79 fps)

Summary for Pond 36P: CB 54

Inflow Area = 0.200 ac, 94.53% Impervious, Inflow Depth > 4.19" for 10-Year event
 Inflow = 0.91 cfs @ 12.09 hrs, Volume= 0.070 af
 Outflow = 0.91 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.91 cfs @ 12.09 hrs, Volume= 0.070 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.76' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.20'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.20' / 59.40' S= 0.1143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.09 hrs HW=60.75' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.89 cfs @ 2.00 fps)

Summary for Pond 38P: DMH 39

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 3.79" for 10-Year event
 Inflow = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af
 Outflow = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af
 Routed to Pond 223P : Sub. Inf. 4B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.20' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.73'	24.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.73' / 58.60' S= 0.0260 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.96 cfs @ 12.09 hrs HW=60.17' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 6.96 cfs @ 4.02 fps)

Summary for Pond 41P: CB 49

Inflow Area = 0.022 ac, 100.00% Impervious, Inflow Depth > 4.26" for 10-Year event
 Inflow = 0.10 cfs @ 12.09 hrs, Volume= 0.008 af
 Outflow = 0.10 cfs @ 12.09 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.10 cfs @ 12.09 hrs, Volume= 0.008 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.10 cfs @ 12.09 hrs HW=58.67' (Free Discharge)

↑1=Culvert (Inlet Controls 0.10 cfs @ 1.12 fps)

Summary for Pond 42P: CB 50

Inflow Area = 0.182 ac, 66.96% Impervious, Inflow Depth > 3.51" for 10-Year event
Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af
Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=59.02' (Free Discharge)

↑1=Culvert (Barrel Controls 0.73 cfs @ 2.58 fps)

Summary for Pond 43P: DMH 35

Inflow Area = 0.719 ac, 83.27% Impervious, Inflow Depth > 1.40" for 10-Year event
Inflow = 0.85 cfs @ 12.09 hrs, Volume= 0.084 af
Outflow = 0.85 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 12.09 hrs, Volume= 0.084 af
Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.30' / 54.70' S= 0.0414 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.83 cfs @ 12.09 hrs HW=58.83' (Free Discharge)

↑1=Culvert (Inlet Controls 0.83 cfs @ 1.96 fps)

Summary for Pond 46P: CB 48

Inflow Area = 0.352 ac, 70.58% Impervious, Inflow Depth > 2.83" for 10-Year event
 Inflow = 1.22 cfs @ 12.09 hrs, Volume= 0.083 af
 Outflow = 1.22 cfs @ 12.09 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.22 cfs @ 12.09 hrs, Volume= 0.083 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.19 cfs @ 12.09 hrs HW=55.51' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.19 cfs @ 2.83 fps)

Summary for Pond 47P: CB 47

Inflow Area = 0.120 ac, 97.54% Impervious, Inflow Depth > 4.19" for 10-Year event
 Inflow = 0.55 cfs @ 12.09 hrs, Volume= 0.042 af
 Outflow = 0.55 cfs @ 12.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.55 cfs @ 12.09 hrs, Volume= 0.042 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.25' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.54 cfs @ 12.09 hrs HW=55.24' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.54 cfs @ 2.37 fps)

Summary for Pond 48P: DMH 33

Inflow Area = 0.472 ac, 77.45% Impervious, Inflow Depth > 3.18" for 10-Year event
 Inflow = 1.77 cfs @ 12.09 hrs, Volume= 0.125 af
 Outflow = 1.77 cfs @ 12.09 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.77 cfs @ 12.09 hrs, Volume= 0.125 af
 Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.73 cfs @ 12.09 hrs HW=55.47' (Free Discharge)

↑1=Culvert (Barrel Controls 1.73 cfs @ 3.18 fps)

Summary for Pond 49P: Sub. Inf. 4

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 2.51" for 10-Year event
 Inflow = 4.86 cfs @ 12.09 hrs, Volume= 0.367 af
 Outflow = 1.77 cfs @ 12.36 hrs, Volume= 0.253 af, Atten= 64%, Lag= 16.4 min
 Discarded = 0.12 cfs @ 12.36 hrs, Volume= 0.102 af
 Primary = 1.65 cfs @ 12.36 hrs, Volume= 0.151 af
 Routed to Pond 211P : level spreader 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.29' @ 12.36 hrs Surf.Area= 3,024 sf Storage= 6,522 cf

Plug-Flow detention time= 124.5 min calculated for 0.252 af (69% of inflow)
 Center-of-Mass det. time= 55.2 min (827.3 - 772.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	934 cf	42.00'W x 72.00'L x 4.17'H Field A 12,610 cf Overall - 10,276 cf Embedded = 2,334 cf x 40.0% Voids
#2A	55.00'	7,500 cf	Shea Leaching Chamber 8x14x3.7 x 25 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 25 Chambers in 5 Rows
8,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	54.50'	18.0" Round Culvert L= 76.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.50' / 51.50' S= 0.0395 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#3	Device 2	56.70'	6.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#4	Device 2	57.15'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.12 cfs @ 12.36 hrs HW=57.28' (Free Discharge)

↑**1=Exfiltration** (Controls 0.12 cfs)

Primary OutFlow Max=1.64 cfs @ 12.36 hrs HW=57.28' (Free Discharge)

↑**2=Culvert** (Passes 1.64 cfs of 9.58 cfs potential flow)

↑**3=Orifice/Grate** (Orifice Controls 1.09 cfs @ 2.78 fps)

↑**4=Broad-Crested Rectangular Weir** (Weir Controls 0.54 cfs @ 1.02 fps)

Summary for Pond 52P: CB 20

Inflow Area = 0.321 ac, 29.26% Impervious, Inflow Depth > 0.85" for 10-Year event
 Inflow = 0.29 cfs @ 12.11 hrs, Volume= 0.023 af
 Outflow = 0.29 cfs @ 12.11 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.11 hrs, Volume= 0.023 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.40' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.11 hrs HW=51.39' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.28 cfs @ 1.45 fps)

Summary for Pond 53P: CB 21

Inflow Area = 0.525 ac, 65.45% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 1.55 cfs @ 12.09 hrs, Volume= 0.105 af
 Outflow = 1.55 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.55 cfs @ 12.09 hrs, Volume= 0.105 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.52 cfs @ 12.09 hrs HW=51.89' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.52 cfs @ 3.16 fps)

Summary for Pond 54P: DMH 15

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 1.91" for 10-Year event
 Inflow = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af
 Outflow = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af
 Routed to Pond 55P : DMH 16

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.97' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.80'	12.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.80' / 50.28' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.41 cfs @ 12.10 hrs HW=51.95' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.41 cfs @ 3.07 fps)

Summary for Pond 55P: DMH 16

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 1.91" for 10-Year event
 Inflow = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af
 Outflow = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.44 cfs @ 12.10 hrs, Volume= 0.168 af
 Routed to Pond 56P : Inf. Basin 3G

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.36' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.18'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.18' / 50.00' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.41 cfs @ 12.10 hrs HW=51.34' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.41 cfs @ 3.32 fps)

Summary for Pond 56P: Inf. Basin 3G

Inflow Area = 1.599 ac, 37.88% Impervious, Inflow Depth > 1.31" for 10-Year event
 Inflow = 2.44 cfs @ 12.10 hrs, Volume= 0.174 af
 Outflow = 0.57 cfs @ 12.53 hrs, Volume= 0.174 af, Atten= 77%, Lag= 26.1 min
 Discarded = 0.57 cfs @ 12.53 hrs, Volume= 0.174 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 51.27' @ 12.53 hrs Surf.Area= 2,465 sf Storage= 2,268 cf

Plug-Flow detention time= 37.0 min calculated for 0.174 af (100% of inflow)

Center-of-Mass det. time= 36.3 min (840.6 - 804.3)

Volume	Invert	Avail.Storage	Storage Description
#1	50.00'	11,770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	985	0	0
51.00	2,275	1,630	1,630
52.00	2,983	2,629	4,259
53.00	3,742	3,363	7,622
54.00	4,554	4,148	11,770

Device	Routing	Invert	Outlet Devices
#1	Discarded	50.00'	7.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 48.00'
#2	Secondary	53.50'	6.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Discarded OutFlow Max=0.57 cfs @ 12.53 hrs HW=51.27' (Free Discharge)↑**1=Exfiltration** (Controls 0.57 cfs)**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=50.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 60P: SUB. INF 8**

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 3.41" for 10-Year event
 Inflow = 3.43 cfs @ 12.09 hrs, Volume= 0.242 af
 Outflow = 3.43 cfs @ 12.10 hrs, Volume= 0.195 af, Atten= 0%, Lag= 0.7 min
 Discarded = 0.03 cfs @ 7.65 hrs, Volume= 0.031 af
 Primary = 3.40 cfs @ 12.10 hrs, Volume= 0.164 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.04' @ 12.10 hrs Surf.Area= 1,170 sf Storage= 2,264 cf

Plug-Flow detention time= 78.7 min calculated for 0.195 af (80% of inflow)

Center-of-Mass det. time= 27.5 min (792.3 - 764.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.00'	1,076 cf	25.25'W x 46.34'L x 3.50'H Field A 4,095 cf Overall - 1,405 cf Embedded = 2,690 cf x 40.0% Voids
#2A	60.50'	1,405 cf	ADS_StormTech SC-740 b +Cap x 30 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

30 Chambers in 5 Rows

Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf

2,481 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	60.00'	12.0" Round Culvert X 2.00 L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.50' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	62.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 7.65 hrs HW=60.04' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)**Primary OutFlow** Max=3.39 cfs @ 12.10 hrs HW=63.04' (Free Discharge)↑**2=Culvert** (Passes 3.39 cfs of 9.51 cfs potential flow)↑**3=Broad-Crested Rectangular Weir** (Weir Controls 3.39 cfs @ 1.95 fps)**Summary for Pond 61P: CB 8**

Inflow Area = 0.117 ac, 57.03% Impervious, Inflow Depth > 1.99" for 10-Year event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 0.019 af
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 0.019 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.70' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.10 hrs HW=50.70' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.28 cfs @ 1.46 fps)**Summary for Pond 62P: CB 66**

Inflow Area = 0.149 ac, 73.97% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 0.64 cfs @ 12.09 hrs, Volume= 0.046 af
 Outflow = 0.64 cfs @ 12.09 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.64 cfs @ 12.09 hrs, Volume= 0.046 af
 Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.96' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.50'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.50' / 60.30' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 12.09 hrs HW=60.95' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.62 cfs @ 1.80 fps)

Summary for Pond 63P: CB 67

Inflow Area = 0.034 ac, 87.02% Impervious, Inflow Depth > 4.00" for 10-Year event
Inflow = 0.15 cfs @ 12.09 hrs, Volume= 0.011 af
Outflow = 0.15 cfs @ 12.09 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.15 cfs @ 12.09 hrs, Volume= 0.011 af
Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.81' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.60'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.60' / 60.30' S= 0.0214 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=60.81' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.15 cfs @ 1.23 fps)

Summary for Pond 64P: DMH 47

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 3.58" for 10-Year event
Inflow = 2.54 cfs @ 12.09 hrs, Volume= 0.182 af
Outflow = 2.54 cfs @ 12.09 hrs, Volume= 0.182 af, Atten= 0%, Lag= 0.0 min
Primary = 2.54 cfs @ 12.09 hrs, Volume= 0.182 af
Routed to Pond 68P : Sub. Inf. 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.90' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.48 cfs @ 12.09 hrs HW=61.29' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.48 cfs @ 3.15 fps)

Summary for Pond 65P: DMH 49

Inflow Area = 0.253 ac, 88.87% Impervious, Inflow Depth > 4.03" for 10-Year event
 Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.085 af
 Outflow = 1.14 cfs @ 12.09 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.14 cfs @ 12.09 hrs, Volume= 0.085 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.70'	12.0" Round Culvert L= 59.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.70' / 58.00' S= 0.0119 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.11 cfs @ 12.09 hrs HW=59.33' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.11 cfs @ 2.13 fps)

Summary for Pond 66P: CB 68

Inflow Area = 0.163 ac, 82.69% Impervious, Inflow Depth > 3.91" for 10-Year event
 Inflow = 0.72 cfs @ 12.09 hrs, Volume= 0.053 af
 Outflow = 0.72 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.72 cfs @ 12.09 hrs, Volume= 0.053 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=59.42' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.70 cfs @ 2.49 fps)

Summary for Pond 67P: CB 69

Inflow Area = 0.090 ac, 100.00% Impervious, Inflow Depth > 4.26" for 10-Year event
 Inflow = 0.42 cfs @ 12.09 hrs, Volume= 0.032 af
 Outflow = 0.42 cfs @ 12.09 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.42 cfs @ 12.09 hrs, Volume= 0.032 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.28' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=59.28' (Free Discharge)

↑1=Culvert (Barrel Controls 0.40 cfs @ 2.23 fps)

Summary for Pond 68P: Sub. Inf. 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 3.58" for 10-Year event
Inflow = 2.54 cfs @ 12.09 hrs, Volume= 0.182 af
Outflow = 2.90 cfs @ 12.06 hrs, Volume= 0.143 af, Atten= 0%, Lag= 0.0 min
Discarded = 0.05 cfs @ 12.06 hrs, Volume= 0.043 af
Primary = 2.85 cfs @ 12.06 hrs, Volume= 0.100 af
Routed to Pond 209P : level spreader 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 62.07' @ 12.06 hrs Surf.Area= 1,065 sf Storage= 1,987 cf

Plug-Flow detention time= 88.4 min calculated for 0.142 af (78% of inflow)
Center-of-Mass det. time= 33.9 min (793.1 - 759.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	606 cf	35.50'W x 30.00'L x 3.67'H Field A 3,909 cf Overall - 2,392 cf Embedded = 1,516 cf x 40.0% Voids
#2A	59.50'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 4 Rows
2,206 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 56.00'
#2	Primary	59.30'	15.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.30' / 57.00' S= 0.0324 ' S= 0.0324 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	61.20'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.05 cfs @ 12.06 hrs HW=62.01' (Free Discharge)

↑**1=Exfiltration** (Controls 0.05 cfs)

Primary OutFlow Max=2.60 cfs @ 12.06 hrs HW=62.01' (Free Discharge)

↑**2=Culvert** (Passes 2.60 cfs of 6.74 cfs potential flow)

↑**3=Orifice/Grate** (Orifice Controls 2.60 cfs @ 3.07 fps)

Summary for Pond 69P: CB 72

Inflow Area = 0.245 ac, 72.86% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.074 af
 Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.074 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.10' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=62.09' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.00 cfs @ 2.07 fps)

Summary for Pond 70P: CB 73

Inflow Area = 0.154 ac, 76.98% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 0.66 cfs @ 12.09 hrs, Volume= 0.048 af
 Outflow = 0.66 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.66 cfs @ 12.09 hrs, Volume= 0.048 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.64 cfs @ 12.09 hrs HW=61.96' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.64 cfs @ 1.82 fps)

Summary for Pond 71P: DMH 54

Inflow Area = 0.399 ac, 74.45% Impervious, Inflow Depth > 3.65" for 10-Year event
 Inflow = 1.69 cfs @ 12.09 hrs, Volume= 0.121 af
 Outflow = 1.69 cfs @ 12.09 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.69 cfs @ 12.09 hrs, Volume= 0.121 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.70' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.64 cfs @ 12.09 hrs HW=61.64' (Free Discharge)
 ↑ **1=Culvert** (Barrel Controls 1.64 cfs @ 3.14 fps)

Summary for Pond 72P: Sub. Inf. 7

Inflow Area = 1.384 ac, 72.05% Impervious, Inflow Depth > 3.63" for 10-Year event
 Inflow = 5.83 cfs @ 12.09 hrs, Volume= 0.418 af
 Outflow = 5.80 cfs @ 12.10 hrs, Volume= 0.336 af, Atten= 1%, Lag= 0.9 min
 Discarded = 0.12 cfs @ 12.10 hrs, Volume= 0.098 af
 Primary = 5.68 cfs @ 12.10 hrs, Volume= 0.238 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.70' @ 12.10 hrs Surf.Area= 1,936 sf Storage= 3,836 cf

Plug-Flow detention time= 80.1 min calculated for 0.335 af (80% of inflow)
 Center-of-Mass det. time= 28.1 min (786.0 - 757.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.30'	1,048 cf	44.00'W x 44.00'L x 3.67'H Field A 7,105 cf Overall - 4,486 cf Embedded = 2,620 cf x 40.0% Voids
#2A	60.80'	3,000 cf	Shea Leaching Chamber 8x14x2.7 x 15 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 15 Chambers in 5 Rows
		4,048 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.30'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 58.10'
#2	Primary	58.00'	18.0" Round Culvert L= 32.0' CPP, projecting, no headwall, Ke= 0.900

#3 Device 2 63.10' Inlet / Outlet Invert= 58.00' / 52.50' S= 0.1719 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.12 cfs @ 12.10 hrs HW=63.69' (Free Discharge)

↑**1=Exfiltration** (Controls 0.12 cfs)

Primary OutFlow Max=5.61 cfs @ 12.10 hrs HW=63.69' (Free Discharge)

↑**2=Culvert** (Passes 5.61 cfs of 14.93 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 5.61 cfs @ 2.37 fps)

Summary for Pond 73P: CB 64

Inflow Area = 0.252 ac, 65.83% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.04 cfs @ 12.09 hrs, Volume= 0.074 af
 Outflow = 1.04 cfs @ 12.09 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.04 cfs @ 12.09 hrs, Volume= 0.074 af
 Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.01 cfs @ 12.09 hrs HW=61.71' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.01 cfs @ 2.88 fps)

Summary for Pond 74P: CB 65

Inflow Area = 0.174 ac, 65.05% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af
 Outflow = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af
 Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=61.58' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.70 cfs @ 1.86 fps)

Summary for Pond 75P: DMH 46

Inflow Area = 0.426 ac, 65.51% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.75 cfs @ 12.09 hrs, Volume= 0.124 af
 Outflow = 1.75 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.09 hrs, Volume= 0.124 af
 Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 118.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.20' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.71 cfs @ 12.09 hrs HW=61.65' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.71 cfs @ 3.23 fps)

Summary for Pond 76P: CB 70

Inflow Area = 0.189 ac, 71.07% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 0.79 cfs @ 12.09 hrs, Volume= 0.057 af
 Outflow = 0.79 cfs @ 12.09 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.79 cfs @ 12.09 hrs, Volume= 0.057 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.77 cfs @ 12.09 hrs HW=58.71' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.77 cfs @ 2.79 fps)

Summary for Pond 77P: CB 71

Inflow Area = 0.098 ac, 95.31% Impervious, Inflow Depth > 4.00" for 10-Year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 58.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=58.57' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.43 cfs @ 1.63 fps)**Summary for Pond 78P: DMH 50**

Inflow Area = 0.540 ac, 83.81% Impervious, Inflow Depth > 3.88" for 10-Year event
Inflow = 2.37 cfs @ 12.09 hrs, Volume= 0.174 af
Outflow = 2.37 cfs @ 12.09 hrs, Volume= 0.174 af, Atten= 0%, Lag= 0.0 min
Primary = 2.37 cfs @ 12.09 hrs, Volume= 0.174 af
Routed to Pond 79P : DMH 51

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.75' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.90'	18.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.90' / 57.70' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.30 cfs @ 12.09 hrs HW=58.74' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.30 cfs @ 3.29 fps)**Summary for Pond 79P: DMH 51**

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 3.96" for 10-Year event
Inflow = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af
Outflow = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af, Atten= 0%, Lag= 0.0 min
Primary = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af
Routed to Pond 80P : DMH 52

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.60'	18.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.60' / 56.91' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.97 cfs @ 12.09 hrs HW=58.56' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.97 cfs @ 3.56 fps)

Summary for Pond 80P: DMH 52

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 3.96" for 10-Year event
 Inflow = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af
 Outflow = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af
 Routed to Pond 241P : Sub. Inf. 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.81'	18.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.81' / 56.27' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.97 cfs @ 12.09 hrs HW=57.76' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.97 cfs @ 3.59 fps)

Summary for Pond 83P: CB 86

Inflow Area = 0.178 ac, 72.79% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af
 Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.053 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.50' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=58.49' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.73 cfs @ 1.89 fps)

Summary for Pond 84P: CB 87

Inflow Area = 0.189 ac, 78.29% Impervious, Inflow Depth > 3.81" for 10-Year event
 Inflow = 0.82 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.82 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.82 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 58.53' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=58.52' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.80 cfs @ 1.94 fps)**Summary for Pond 85P: DMH 65**

Inflow Area = 0.367 ac, 75.63% Impervious, Inflow Depth > 3.71" for 10-Year event
Inflow = 1.57 cfs @ 12.09 hrs, Volume= 0.114 af
Outflow = 1.57 cfs @ 12.09 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 1.57 cfs @ 12.09 hrs, Volume= 0.114 af
Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.65'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.65' / 57.55' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.53 cfs @ 12.09 hrs HW=58.47' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.53 cfs @ 3.01 fps)**Summary for Pond 86P: Sub. Inf. 6**

Inflow Area = 0.745 ac, 45.50% Impervious, Inflow Depth > 3.02" for 10-Year event
Inflow = 2.71 cfs @ 12.09 hrs, Volume= 0.188 af
Outflow = 2.70 cfs @ 12.10 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.8 min
Discarded = 0.05 cfs @ 12.10 hrs, Volume= 0.039 af
Primary = 2.65 cfs @ 12.10 hrs, Volume= 0.118 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.07' @ 12.10 hrs Surf.Area= 804 sf Storage= 1,552 cf

Plug-Flow detention time= 69.6 min calculated for 0.157 af (83% of inflow)

Center-of-Mass det. time= 23.6 min (797.9 - 774.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	61.00'	750 cf	20.50'W x 39.22'L x 3.50'H Field A 2,814 cf Overall - 940 cf Embedded = 1,874 cf x 40.0% Voids
#2A	61.50'	940 cf	ADS_StormTech SC-740 b +Cap x 20 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 20 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		1,690 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	61.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 59.00'
#2	Primary	61.00'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 57.00' S= 0.0381 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	63.50'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.05 cfs @ 12.10 hrs HW=64.07' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.05 cfs)

Primary OutFlow Max=2.62 cfs @ 12.10 hrs HW=64.07' (Free Discharge)

↑ **2=Culvert** (Passes 2.62 cfs of 4.79 cfs potential flow)

↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 2.62 cfs @ 2.30 fps)

Summary for Pond 89P: CB 74

Inflow Area = 0.052 ac, 80.20% Impervious, Inflow Depth > 3.81" for 10-Year event
 Inflow = 0.23 cfs @ 12.09 hrs, Volume= 0.017 af
 Outflow = 0.23 cfs @ 12.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.23 cfs @ 12.09 hrs, Volume= 0.017 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=64.77' (Free Discharge)

↑ **1=Culvert** (Barrel Controls 0.22 cfs @ 1.94 fps)

Summary for Pond 90P: CB 75

Inflow Area = 0.104 ac, 76.91% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af
 Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.032 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=64.89' (Free Discharge)
 ↑1=Culvert (Barrel Controls 0.43 cfs @ 2.24 fps)

Summary for Pond 91P: DMH 55

Inflow Area = 0.156 ac, 78.01% Impervious, Inflow Depth > 3.74" for 10-Year event
 Inflow = 0.67 cfs @ 12.09 hrs, Volume= 0.049 af
 Outflow = 0.67 cfs @ 12.09 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.67 cfs @ 12.09 hrs, Volume= 0.049 af
 Routed to Pond 86P : Sub. Inf. 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.30'	12.0" Round Culvert L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.30' / 62.10' S= 0.0204 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=64.76' (Free Discharge)
 ↑1=Culvert (Inlet Controls 0.66 cfs @ 1.83 fps)

Summary for Pond 94P: CB 77

Inflow Area = 0.204 ac, 71.21% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 0.86 cfs @ 12.09 hrs, Volume= 0.061 af
 Outflow = 0.86 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.86 cfs @ 12.09 hrs, Volume= 0.061 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.23' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=63.22' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.84 cfs @ 2.61 fps)

Summary for Pond 95P: CB 76

Inflow Area = 0.141 ac, 70.69% Impervious, Inflow Depth > 3.61" for 10-Year event
Inflow = 0.59 cfs @ 12.09 hrs, Volume= 0.042 af
Outflow = 0.59 cfs @ 12.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.59 cfs @ 12.09 hrs, Volume= 0.042 af
Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.09 hrs HW=63.11' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.58 cfs @ 2.40 fps)

Summary for Pond 96P: DMH 56

Inflow Area = 0.985 ac, 71.08% Impervious, Inflow Depth > 3.62" for 10-Year event
Inflow = 4.14 cfs @ 12.09 hrs, Volume= 0.297 af
Outflow = 4.14 cfs @ 12.09 hrs, Volume= 0.297 af, Atten= 0%, Lag= 0.0 min
Primary = 4.14 cfs @ 12.09 hrs, Volume= 0.297 af
Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.00'	18.0" Round Culvert L= 134.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.00' / 61.10' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.04 cfs @ 12.09 hrs HW=63.12' (Free Discharge)

↑**1=Culvert** (Inlet Controls 4.04 cfs @ 2.85 fps)

Summary for Pond 97P: Sub. INF 9

Inflow Area = 1.214 ac, 72.06% Impervious, Inflow Depth > 3.62" for 10-Year event
 Inflow = 5.11 cfs @ 12.09 hrs, Volume= 0.367 af
 Outflow = 5.47 cfs @ 12.10 hrs, Volume= 0.275 af, Atten= 0%, Lag= 0.7 min
 Discarded = 0.03 cfs @ 6.60 hrs, Volume= 0.035 af
 Primary = 5.44 cfs @ 12.10 hrs, Volume= 0.240 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.58' @ 12.10 hrs Surf.Area= 1,260 sf Storage= 4,481 cf

Plug-Flow detention time= 97.4 min calculated for 0.275 af (75% of inflow)
 Center-of-Mass det. time= 37.8 min (795.6 - 757.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	514 cf	42.00'W x 30.00'L x 5.17'H Field A 6,514 cf Overall - 5,230 cf Embedded = 1,284 cf x 40.0% Voids
#2A	59.50'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 5 Rows
4,514 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	57.50'	15.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.50' / 53.00' S= 0.1500 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	63.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 6.60 hrs HW=59.05' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=5.42 cfs @ 12.10 hrs HW=63.58' (Free Discharge)
 ↑ **2=Culvert** (Passes 5.42 cfs of 10.90 cfs potential flow)
 ↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 5.42 cfs @ 2.33 fps)

Summary for Pond 98P: DMH 61

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 3.59" for 10-Year event
 Inflow = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af
 Outflow = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af
 Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 58.30' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.45 cfs @ 12.09 hrs HW=60.82' (Free Discharge)

↑**1=Culvert** (Inlet Controls 3.45 cfs @ 2.71 fps)

Summary for Pond 99P: CB 81

Inflow Area = 0.258 ac, 68.08% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.06 cfs @ 12.09 hrs, Volume= 0.075 af
 Outflow = 1.06 cfs @ 12.09 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.06 cfs @ 12.09 hrs, Volume= 0.075 af
 Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.65' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=63.64' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.03 cfs @ 2.73 fps)

Summary for Pond 100P: CB 80

Inflow Area = 0.383 ac, 73.17% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 1.64 cfs @ 12.09 hrs, Volume= 0.118 af
 Outflow = 1.64 cfs @ 12.09 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.64 cfs @ 12.09 hrs, Volume= 0.118 af
 Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.59 cfs @ 12.09 hrs HW=63.84' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.59 cfs @ 3.03 fps)

Summary for Pond 101P: DMH 59

Inflow Area = 0.640 ac, 71.12% Impervious, Inflow Depth > 3.63" for 10-Year event
 Inflow = 2.70 cfs @ 12.09 hrs, Volume= 0.193 af
 Outflow = 2.70 cfs @ 12.09 hrs, Volume= 0.193 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.70 cfs @ 12.09 hrs, Volume= 0.193 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.79'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.79' / 62.10' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.63 cfs @ 12.09 hrs HW=63.67' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.63 cfs @ 3.53 fps)

Summary for Pond 102P: CB 93

Inflow Area = 0.178 ac, 69.60% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af
 Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.94' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=61.93' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.73 cfs @ 2.49 fps)

Summary for Pond 103P: CB 92

Inflow Area = 0.313 ac, 76.83% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 1.34 cfs @ 12.09 hrs, Volume= 0.097 af
 Outflow = 1.34 cfs @ 12.09 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.34 cfs @ 12.09 hrs, Volume= 0.097 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 62.17' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.31 cfs @ 12.09 hrs HW=62.15' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.31 cfs @ 2.86 fps)**Summary for Pond 104P: CB 83**

Inflow Area = 0.343 ac, 64.21% Impervious, Inflow Depth > 3.41" for 10-Year event
Inflow = 1.38 cfs @ 12.09 hrs, Volume= 0.097 af
Outflow = 1.38 cfs @ 12.09 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min
Primary = 1.38 cfs @ 12.09 hrs, Volume= 0.097 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.35 cfs @ 12.09 hrs HW=61.76' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.35 cfs @ 2.91 fps)**Summary for Pond 105P: CB 82**

Inflow Area = 0.504 ac, 74.80% Impervious, Inflow Depth > 3.71" for 10-Year event
Inflow = 2.16 cfs @ 12.09 hrs, Volume= 0.156 af
Outflow = 2.16 cfs @ 12.09 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 2.16 cfs @ 12.09 hrs, Volume= 0.156 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.10 cfs @ 12.09 hrs HW=62.02' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.10 cfs @ 3.25 fps)

Summary for Pond 106P: DMH 60

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 3.59" for 10-Year event
 Inflow = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af
 Outflow = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.54 cfs @ 12.09 hrs, Volume= 0.253 af
 Routed to Pond 98P : DMH 61

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	18.0" Round Culvert L= 110.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 59.90' S= 0.0082 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.45 cfs @ 12.09 hrs HW=61.82' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 3.45 cfs @ 2.71 fps)

Summary for Pond 107P: CB

Inflow Area = 0.358 ac, 66.21% Impervious, Inflow Depth > 3.48" for 10-Year event
 Inflow = 1.46 cfs @ 12.09 hrs, Volume= 0.104 af
 Outflow = 1.46 cfs @ 12.09 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.46 cfs @ 12.09 hrs, Volume= 0.104 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.75' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=60.74' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.43 cfs @ 2.31 fps)

Summary for Pond 108P: CB 88

Inflow Area = 0.160 ac, 74.59% Impervious, Inflow Depth > 3.68" for 10-Year event
 Inflow = 0.68 cfs @ 12.09 hrs, Volume= 0.049 af
 Outflow = 0.68 cfs @ 12.09 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.09 hrs, Volume= 0.049 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.0909 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=60.47' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.66 cfs @ 1.84 fps)

Summary for Pond 109P: CB 79

Inflow Area = 0.457 ac, 64.44% Impervious, Inflow Depth > 3.41" for 10-Year event
 Inflow = 1.84 cfs @ 12.09 hrs, Volume= 0.130 af
 Outflow = 1.84 cfs @ 12.09 hrs, Volume= 0.130 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.84 cfs @ 12.09 hrs, Volume= 0.130 af
 Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.35' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.79 cfs @ 12.09 hrs HW=62.33' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.79 cfs @ 3.07 fps)

Summary for Pond 110P: CB 78

Inflow Area = 0.396 ac, 64.26% Impervious, Inflow Depth > 3.41" for 10-Year event
 Inflow = 1.59 cfs @ 12.09 hrs, Volume= 0.112 af
 Outflow = 1.59 cfs @ 12.09 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.59 cfs @ 12.09 hrs, Volume= 0.112 af
 Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.17' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	15.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.56 cfs @ 12.09 hrs HW=62.16' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.56 cfs @ 2.86 fps)

Summary for Pond 111P: DMH 57

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 3.41" for 10-Year event
 Inflow = 3.43 cfs @ 12.09 hrs, Volume= 0.242 af
 Outflow = 3.43 cfs @ 12.09 hrs, Volume= 0.242 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.43 cfs @ 12.09 hrs, Volume= 0.242 af
 Routed to Pond 60P : SUB. INF 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.92' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	24.0" Round Culvert L= 74.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.60' S= 0.0054 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.35 cfs @ 12.09 hrs HW=61.91' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.35 cfs @ 3.54 fps)

Summary for Pond 112P: CB 45

Inflow Area = 0.290 ac, 58.56% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 1.09 cfs @ 12.09 hrs, Volume= 0.075 af
 Outflow = 1.09 cfs @ 12.09 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.09 cfs @ 12.09 hrs, Volume= 0.075 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.25' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.06 cfs @ 12.09 hrs HW=58.25' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.06 cfs @ 2.77 fps)

Summary for Pond 113P: CB 95

Inflow Area = 0.189 ac, 91.26% Impervious, Inflow Depth > 4.10" for 10-Year event
 Inflow = 0.86 cfs @ 12.09 hrs, Volume= 0.064 af
 Outflow = 0.86 cfs @ 12.09 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.86 cfs @ 12.09 hrs, Volume= 0.064 af
 Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.58' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.83 cfs @ 12.09 hrs HW=60.57' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.83 cfs @ 2.61 fps)

Summary for Pond 114P: CB 94

Inflow Area = 0.285 ac, 80.60% Impervious, Inflow Depth > 3.81" for 10-Year event
Inflow = 1.24 cfs @ 12.09 hrs, Volume= 0.091 af
Outflow = 1.24 cfs @ 12.09 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min
Primary = 1.24 cfs @ 12.09 hrs, Volume= 0.091 af
Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.09 hrs HW=60.71' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.21 cfs @ 2.84 fps)

Summary for Pond 115P: CB 91

Inflow Area = 0.275 ac, 75.65% Impervious, Inflow Depth > 3.71" for 10-Year event
Inflow = 1.18 cfs @ 12.09 hrs, Volume= 0.085 af
Outflow = 1.18 cfs @ 12.09 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.09 hrs, Volume= 0.085 af
Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0833 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.15 cfs @ 12.09 hrs HW=59.87' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.15 cfs @ 2.15 fps)

Summary for Pond 116P: CB 90

Inflow Area = 0.112 ac, 84.21% Impervious, Inflow Depth > 3.91" for 10-Year event
 Inflow = 0.50 cfs @ 12.09 hrs, Volume= 0.037 af
 Outflow = 0.50 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.09 hrs, Volume= 0.037 af
 Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0714 ' S= 0.0714 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=59.62' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.48 cfs @ 1.69 fps)

Summary for Pond 117P: DMH 69

Inflow Area = 0.491 ac, 74.21% Impervious, Inflow Depth > 3.67" for 10-Year event
 Inflow = 2.09 cfs @ 12.09 hrs, Volume= 0.150 af
 Outflow = 2.09 cfs @ 12.09 hrs, Volume= 0.150 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.09 cfs @ 12.09 hrs, Volume= 0.150 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.26'	18.0" Round Culvert L= 140.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.26' / 58.56' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.03 cfs @ 12.09 hrs HW=60.02' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.03 cfs @ 3.31 fps)

Summary for Pond 118P: DMH 70

Inflow Area = 0.474 ac, 84.85% Impervious, Inflow Depth > 3.92" for 10-Year event
 Inflow = 2.10 cfs @ 12.09 hrs, Volume= 0.155 af
 Outflow = 2.10 cfs @ 12.09 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.10 cfs @ 12.09 hrs, Volume= 0.155 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 60.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 59.36' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.04 cfs @ 12.09 hrs HW=60.78' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.04 cfs @ 3.30 fps)**Summary for Pond 119P: DMH 66**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 3.60" for 10-Year event
Inflow = 4.23 cfs @ 12.09 hrs, Volume= 0.303 af
Outflow = 4.23 cfs @ 12.09 hrs, Volume= 0.303 af, Atten= 0%, Lag= 0.0 min
Primary = 4.23 cfs @ 12.09 hrs, Volume= 0.303 af
Routed to Pond 251P : Sub. Inf. 10

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.65' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.46'	18.0" Round Culvert L= 102.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.46' / 57.95' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.13 cfs @ 12.09 hrs HW=59.64' (Free Discharge)↑**1=Culvert** (Barrel Controls 4.13 cfs @ 3.82 fps)**Summary for Pond 120P: DMH 67**

Inflow Area = 0.388 ac, 78.13% Impervious, Inflow Depth > 3.77" for 10-Year event
Inflow = 1.67 cfs @ 12.09 hrs, Volume= 0.122 af
Outflow = 1.67 cfs @ 12.09 hrs, Volume= 0.122 af, Atten= 0%, Lag= 0.0 min
Primary = 1.67 cfs @ 12.09 hrs, Volume= 0.122 af
Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.85'	24.0" Round Culvert L= 40.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.85' / 57.00' S= 0.0213 ' S= 0.0213 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.63 cfs @ 12.09 hrs HW=58.45' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.63 cfs @ 2.08 fps)

Summary for Pond 122P: CB 46

Inflow Area = 0.275 ac, 72.42% Impervious, Inflow Depth > 3.61" for 10-Year event
 Inflow = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af
 Outflow = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.30' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=58.29' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.13 cfs @ 2.72 fps)

Summary for Pond 123P: DMH 31

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 3.35" for 10-Year event
 Inflow = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af
 Outflow = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af
 Routed to Pond 124P : DMH 32

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.18' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.39'	18.0" Round Culvert L= 78.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.39' / 56.61' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.19 cfs @ 12.09 hrs HW=58.17' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.19 cfs @ 2.37 fps)

Summary for Pond 124P: DMH 32

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 3.35" for 10-Year event
 Inflow = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af
 Outflow = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.24 cfs @ 12.09 hrs, Volume= 0.158 af
 Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.57'	18.0" Round Culvert L= 75.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.57' / 54.70' S= 0.0249 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.19 cfs @ 12.09 hrs HW=57.35' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.19 cfs @ 2.37 fps)

Summary for Pond 125P: CB 36

Inflow Area = 0.196 ac, 76.76% Impervious, Inflow Depth > 2.92" for 10-Year event
 Inflow = 0.70 cfs @ 12.09 hrs, Volume= 0.048 af
 Outflow = 0.70 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 12.09 hrs, Volume= 0.048 af
 Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=54.97' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.68 cfs @ 2.43 fps)

Summary for Pond 126P: CB 37

Inflow Area = 0.225 ac, 79.18% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 0.058 af
 Outflow = 0.84 cfs @ 12.09 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.84 cfs @ 12.09 hrs, Volume= 0.058 af
 Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=55.03' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.82 cfs @ 2.54 fps)

Summary for Pond 127P: DMH 26

Inflow Area = 0.421 ac, 78.05% Impervious, Inflow Depth > 3.02" for 10-Year event
 Inflow = 1.54 cfs @ 12.09 hrs, Volume= 0.106 af
 Outflow = 1.54 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.54 cfs @ 12.09 hrs, Volume= 0.106 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.02' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.25'	12.0" Round Culvert L= 84.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.25' / 52.80' S= 0.0173 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.51 cfs @ 12.09 hrs HW=55.01' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.51 cfs @ 2.35 fps)

Summary for Pond 129P: CB 34

Inflow Area = 0.260 ac, 54.23% Impervious, Inflow Depth > 1.83" for 10-Year event
 Inflow = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af
 Outflow = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.59 cfs @ 12.10 hrs, Volume= 0.040 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.65' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.10 hrs HW=55.65' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.58 cfs @ 2.51 fps)

Summary for Pond 131P: CB 35

Inflow Area = 0.210 ac, 39.72% Impervious, Inflow Depth > 1.21" for 10-Year event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 0.021 af
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 0.021 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.50' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=55.50' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.29 cfs @ 1.47 fps)

Summary for Pond 132P: CB 33

Inflow Area = 0.535 ac, 41.20% Impervious, Inflow Depth > 1.27" for 10-Year event
Inflow = 0.80 cfs @ 12.10 hrs, Volume= 0.057 af
Outflow = 0.80 cfs @ 12.10 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 12.10 hrs, Volume= 0.057 af
Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.73' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.10 hrs HW=55.72' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.80 cfs @ 2.78 fps)

Summary for Pond 133P: DMH 24

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 1.40" for 10-Year event
Inflow = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af
Outflow = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af
Routed to Pond 246P : Sub. Inf. 3D

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.38' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.65'	18.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.65' / 54.50' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.68 cfs @ 12.10 hrs HW=55.38' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.68 cfs @ 2.85 fps)

Summary for Pond 134P: DMH 25

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 1.40" for 10-Year event
 Inflow = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af
 Outflow = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.68 cfs @ 12.10 hrs, Volume= 0.117 af
 Routed to Pond 133P : DMH 24

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.73' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.00'	18.0" Round Culvert L= 93.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.00' / 54.65' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.68 cfs @ 12.10 hrs HW=55.73' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.68 cfs @ 2.86 fps)

Summary for Pond 136P: CB 38

Inflow Area = 0.180 ac, 66.23% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af
 Outflow = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.94' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=53.93' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.52 cfs @ 2.37 fps)

Summary for Pond 137P: CB 44

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 0.065 af
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 0.065 af
 Routed to Pond 239P : INF 3C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=54.06' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.92 cfs @ 2.02 fps)**Summary for Pond 138P: CB 39**

Inflow Area = 0.145 ac, 72.58% Impervious, Inflow Depth > 2.74" for 10-Year event
Inflow = 0.48 cfs @ 12.09 hrs, Volume= 0.033 af
Outflow = 0.48 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 12.09 hrs, Volume= 0.033 af
Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=53.91' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.48 cfs @ 2.33 fps)**Summary for Pond 139P: DMH 28**

Inflow Area = 0.325 ac, 69.06% Impervious, Inflow Depth > 2.55" for 10-Year event
Inflow = 1.02 cfs @ 12.09 hrs, Volume= 0.069 af
Outflow = 1.02 cfs @ 12.09 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min
Primary = 1.02 cfs @ 12.09 hrs, Volume= 0.069 af
Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.92' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.30'	12.0" Round Culvert L= 99.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.30' / 52.80' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=53.91' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.00 cfs @ 2.83 fps)

Summary for Pond 142P: CB 40

Inflow Area = 0.409 ac, 65.98% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 1.21 cfs @ 12.09 hrs, Volume= 0.082 af
 Outflow = 1.21 cfs @ 12.09 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.21 cfs @ 12.09 hrs, Volume= 0.082 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.23' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.19 cfs @ 12.09 hrs HW=51.22' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.19 cfs @ 2.88 fps)

Summary for Pond 143P: CB 41

Inflow Area = 0.577 ac, 66.17% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 1.70 cfs @ 12.09 hrs, Volume= 0.115 af
 Outflow = 1.70 cfs @ 12.09 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.70 cfs @ 12.09 hrs, Volume= 0.115 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.40' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.67 cfs @ 12.09 hrs HW=51.39' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.67 cfs @ 3.12 fps)

Summary for Pond 144P: DMH 30

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af
 Outflow = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af
 Routed to Pond 145P : DMH 29

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 51.29' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.33'	18.0" Round Culvert L= 73.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.33' / 49.96' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.86 cfs @ 12.09 hrs HW=51.28' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.86 cfs @ 3.45 fps)**Summary for Pond 145P: DMH 29**

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 2.39" for 10-Year event
Inflow = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af
Outflow = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af, Atten= 0%, Lag= 0.0 min
Primary = 2.91 cfs @ 12.09 hrs, Volume= 0.196 af
Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.86'	18.0" Round Culvert L= 95.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.86' / 49.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.86 cfs @ 12.09 hrs HW=50.77' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.86 cfs @ 2.56 fps)**Summary for Pond 147P: CB 28**

Inflow Area = 0.372 ac, 68.57% Impervious, Inflow Depth > 2.53" for 10-Year event
Inflow = 1.16 cfs @ 12.09 hrs, Volume= 0.078 af
Outflow = 1.16 cfs @ 12.09 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
Primary = 1.16 cfs @ 12.09 hrs, Volume= 0.078 af
Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=54.89' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.14 cfs @ 2.76 fps)

Summary for Pond 148P: CB 43

Inflow Area = 0.196 ac, 80.21% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.051 af
 Outflow = 0.74 cfs @ 12.09 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 0.051 af
 Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.50' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	12.0" Round Culvert L= 68.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.00' / 49.00' S= 0.0441 ' S= 0.0441 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 12.09 hrs HW=52.49' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.72 cfs @ 1.88 fps)

Summary for Pond 149P: CB 29

Inflow Area = 0.399 ac, 65.93% Impervious, Inflow Depth > 2.48" for 10-Year event
 Inflow = 1.22 cfs @ 12.09 hrs, Volume= 0.082 af
 Outflow = 1.22 cfs @ 12.09 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.22 cfs @ 12.09 hrs, Volume= 0.082 af
 Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.20 cfs @ 12.09 hrs HW=54.89' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.20 cfs @ 2.90 fps)

Summary for Pond 150P: DMH 22

Inflow Area = 0.771 ac, 67.20% Impervious, Inflow Depth > 2.50" for 10-Year event
 Inflow = 2.38 cfs @ 12.09 hrs, Volume= 0.161 af
 Outflow = 2.38 cfs @ 12.09 hrs, Volume= 0.161 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.38 cfs @ 12.09 hrs, Volume= 0.161 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.95'	15.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.95' / 53.23' S= 0.0144 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.33 cfs @ 12.09 hrs HW=54.83' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.33 cfs @ 2.52 fps)

Summary for Pond 151P: CB 22

Inflow Area = 0.159 ac, 74.64% Impervious, Inflow Depth > 2.83" for 10-Year event
Inflow = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af
Outflow = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.76' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0054 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.54 cfs @ 12.09 hrs HW=52.75' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.54 cfs @ 2.31 fps)

Summary for Pond 152P: CB 23

Inflow Area = 0.210 ac, 67.61% Impervious, Inflow Depth > 2.48" for 10-Year event
Inflow = 0.64 cfs @ 12.09 hrs, Volume= 0.043 af
Outflow = 0.64 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.09 hrs, Volume= 0.043 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0079 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=52.77' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.63 cfs @ 2.52 fps)

Summary for Pond 153P: DMH 17

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 2.71" for 10-Year event
 Inflow = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af
 Outflow = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af
 Routed to Pond 204P : DMH 18

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.05'	18.0" Round Culvert L= 94.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.05' / 51.55' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.63 cfs @ 12.09 hrs HW=53.49' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.63 cfs @ 4.13 fps)

Summary for Pond 154P: CB 18

Inflow Area = 0.207 ac, 76.76% Impervious, Inflow Depth > 2.92" for 10-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af
 Outflow = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 12.09 hrs HW=53.76' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.72 cfs @ 2.58 fps)

Summary for Pond 155P: CB 27

Inflow Area = 0.220 ac, 74.64% Impervious, Inflow Depth > 2.83" for 10-Year event
 Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=55.13' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.74 cfs @ 2.56 fps)**Summary for Pond 156P: CB 26**

Inflow Area = 0.108 ac, 90.07% Impervious, Inflow Depth > 3.71" for 10-Year event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.033 af
Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=55.00' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.45 cfs @ 2.30 fps)**Summary for Pond 157P: DMH 21**

Inflow Area = 0.328 ac, 79.72% Impervious, Inflow Depth > 3.12" for 10-Year event
Inflow = 1.22 cfs @ 12.09 hrs, Volume= 0.085 af
Outflow = 1.22 cfs @ 12.09 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
Primary = 1.22 cfs @ 12.09 hrs, Volume= 0.085 af
Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.40'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.40' / 53.50' S= 0.0105 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.19 cfs @ 12.09 hrs HW=55.06' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.19 cfs @ 2.18 fps)

Summary for Pond 158P: CB 24

Inflow Area = 0.117 ac, 70.43% Impervious, Inflow Depth > 2.65" for 10-Year event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.026 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.026 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=53.96' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.37 cfs @ 2.17 fps)

Summary for Pond 159P: CB 25

Inflow Area = 0.146 ac, 79.60% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af
 Outflow = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.55 cfs @ 12.09 hrs, Volume= 0.038 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.09 hrs HW=54.04' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.53 cfs @ 2.35 fps)

Summary for Pond 160P: DMH 20

Inflow Area = 0.591 ac, 77.85% Impervious, Inflow Depth > 3.02" for 10-Year event
 Inflow = 2.15 cfs @ 12.09 hrs, Volume= 0.149 af
 Outflow = 2.15 cfs @ 12.09 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.15 cfs @ 12.09 hrs, Volume= 0.149 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.46' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.40'	12.0" Round Culvert L= 33.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.40' / 53.23' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.10 cfs @ 12.09 hrs HW=54.44' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.10 cfs @ 3.20 fps)**Summary for Pond 161P: DMH 19**

Inflow Area = 1.362 ac, 71.82% Impervious, Inflow Depth > 2.73" for 10-Year event
Inflow = 4.53 cfs @ 12.09 hrs, Volume= 0.310 af
Outflow = 4.53 cfs @ 12.09 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min
Primary = 4.53 cfs @ 12.09 hrs, Volume= 0.310 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.13'	18.0" Round Culvert L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.13' / 52.15' S= 0.0098 ' S= 0.0098 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.44 cfs @ 12.09 hrs HW=54.33' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.44 cfs @ 2.94 fps)**Summary for Pond 162P: CB 15**

Inflow Area = 0.390 ac, 63.16% Impervious, Inflow Depth > 2.22" for 10-Year event
Inflow = 1.07 cfs @ 12.09 hrs, Volume= 0.072 af
Outflow = 1.07 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 1.07 cfs @ 12.09 hrs, Volume= 0.072 af
Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.04'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.04' / 50.84' S= 0.0143 ' S= 0.0143 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.06 cfs @ 12.09 hrs HW=51.65' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.06 cfs @ 2.10 fps)

Summary for Pond 163P: CB 14

Inflow Area = 0.311 ac, 63.37% Impervious, Inflow Depth > 2.22" for 10-Year event
 Inflow = 0.85 cfs @ 12.09 hrs, Volume= 0.058 af
 Outflow = 0.85 cfs @ 12.09 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.85 cfs @ 12.09 hrs, Volume= 0.058 af
 Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.65' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.94' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=51.64' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.84 cfs @ 2.50 fps)

Summary for Pond 165P: CB 19

Inflow Area = 0.209 ac, 66.66% Impervious, Inflow Depth > 2.39" for 10-Year event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af
 Outflow = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=53.72' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.61 cfs @ 2.49 fps)

Summary for Pond 166P: DMH 13

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.32" for 10-Year event
 Inflow = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af
 Outflow = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af
 Routed to Pond 169P : DMH 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.16'	12.0" Round Culvert L= 92.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.16' / 51.70' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.33 cfs @ 12.09 hrs HW=52.89' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.33 cfs @ 3.01 fps)**Summary for Pond 167P: CB 11**

Inflow Area = 0.209 ac, 65.78% Impervious, Inflow Depth > 2.39" for 10-Year event
Inflow = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af
Outflow = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.09 hrs, Volume= 0.042 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.24' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0105 ' S= 0.0105 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=51.24' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.61 cfs @ 1.79 fps)**Summary for Pond 168P: CB 10**

Inflow Area = 0.231 ac, 30.05% Impervious, Inflow Depth > 0.91" for 10-Year event
Inflow = 0.22 cfs @ 12.11 hrs, Volume= 0.017 af
Outflow = 0.22 cfs @ 12.11 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 12.11 hrs, Volume= 0.017 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.05' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0182 ' S= 0.0182 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.11 hrs HW=51.05' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.22 cfs @ 1.37 fps)

Summary for Pond 169P: DMH 12

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.32" for 10-Year event
 Inflow = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af
 Outflow = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.35 cfs @ 12.09 hrs, Volume= 0.092 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.60'	12.0" Round Culvert L= 107.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.60' / 51.06' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.33 cfs @ 12.09 hrs HW=52.33' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.33 cfs @ 3.04 fps)

Summary for Pond 170P: CB 9

Inflow Area = 0.227 ac, 61.54% Impervious, Inflow Depth > 2.14" for 10-Year event
 Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 21.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0667 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=50.84' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.59 cfs @ 1.78 fps)

Summary for Pond 171P: DMH 6

Inflow Area = 2.272 ac, 49.70% Impervious, Inflow Depth > 1.65" for 10-Year event
 Inflow = 4.50 cfs @ 12.09 hrs, Volume= 0.312 af
 Outflow = 4.50 cfs @ 12.09 hrs, Volume= 0.312 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.50 cfs @ 12.09 hrs, Volume= 0.312 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 50.01' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.80'	18.0" Round Culvert L= 130.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.80' / 47.85' S= 0.0073 ' S= 0.0073 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.44 cfs @ 12.09 hrs HW=50.00' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.44 cfs @ 2.94 fps)**Summary for Pond 172P: CB 16**

Inflow Area = 0.317 ac, 75.85% Impervious, Inflow Depth > 2.92" for 10-Year event
Inflow = 1.13 cfs @ 12.09 hrs, Volume= 0.077 af
Outflow = 1.13 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
Primary = 1.13 cfs @ 12.09 hrs, Volume= 0.077 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.10 cfs @ 12.09 hrs HW=52.56' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.10 cfs @ 2.82 fps)**Summary for Pond 173P: CB 17**

Inflow Area = 0.130 ac, 71.18% Impervious, Inflow Depth > 2.65" for 10-Year event
Inflow = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.09 hrs, Volume= 0.029 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.28' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=52.27' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.41 cfs @ 2.30 fps)

Summary for Pond 174P: DMH 11

Inflow Area = 3.938 ac, 68.53% Impervious, Inflow Depth > 0.60" for 10-Year event
 Inflow = 2.90 cfs @ 12.09 hrs, Volume= 0.198 af
 Outflow = 2.90 cfs @ 12.09 hrs, Volume= 0.198 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.90 cfs @ 12.09 hrs, Volume= 0.198 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.96'	18.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.96' / 50.70' S= 0.0118 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.84 cfs @ 12.09 hrs HW=51.87' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.84 cfs @ 3.66 fps)

Summary for Pond 175P: DMH 5

Inflow Area = 1.445 ac, 58.41% Impervious, Inflow Depth > 2.05" for 10-Year event
 Inflow = 3.61 cfs @ 12.09 hrs, Volume= 0.247 af
 Outflow = 3.61 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.61 cfs @ 12.09 hrs, Volume= 0.247 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.60' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.52'	18.0" Round Culvert L= 103.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.52' / 49.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.57 cfs @ 12.09 hrs HW=50.59' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.57 cfs @ 3.71 fps)

Summary for Pond 176P: CB 6

Inflow Area = 0.199 ac, 57.72% Impervious, Inflow Depth > 1.99" for 10-Year event
 Inflow = 0.49 cfs @ 12.10 hrs, Volume= 0.033 af
 Outflow = 0.49 cfs @ 12.10 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.49 cfs @ 12.10 hrs, Volume= 0.033 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.21' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.10 hrs HW=50.21' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.48 cfs @ 1.68 fps)

Summary for Pond 177P: CB 13

Inflow Area = 0.319 ac, 64.43% Impervious, Inflow Depth > 2.31" for 10-Year event
Inflow = 0.91 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.91 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.91 cfs @ 12.09 hrs, Volume= 0.061 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=51.84' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.90 cfs @ 2.65 fps)

Summary for Pond 178P: CB 12

Inflow Area = 0.152 ac, 60.77% Impervious, Inflow Depth > 2.14" for 10-Year event
Inflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
Outflow = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.09 hrs, Volume= 0.027 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=51.62' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.40 cfs @ 2.22 fps)

Summary for Pond 179P: DMH 8

Inflow Area = 0.472 ac, 63.25% Impervious, Inflow Depth > 2.25" for 10-Year event
 Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.089 af
 Outflow = 1.31 cfs @ 12.09 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.31 cfs @ 12.09 hrs, Volume= 0.089 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.79' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.70' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 12.09 hrs HW=51.78' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.29 cfs @ 2.95 fps)

Summary for Pond 180P: DMH 9

Inflow Area = 0.701 ac, 63.25% Impervious, Inflow Depth > 2.22" for 10-Year event
 Inflow = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af
 Outflow = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af
 Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.84'	15.0" Round Culvert L= 49.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.84' / 50.59' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=51.67' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.90 cfs @ 3.11 fps)

Summary for Pond 181P: DMH 7

Inflow Area = 1.141 ac, 56.99% Impervious, Inflow Depth > 1.99" for 10-Year event
 Inflow = 2.77 cfs @ 12.10 hrs, Volume= 0.189 af
 Outflow = 2.77 cfs @ 12.10 hrs, Volume= 0.189 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.77 cfs @ 12.10 hrs, Volume= 0.189 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.48' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.49'	15.0" Round Culvert L= 174.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.49' / 49.62' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.73 cfs @ 12.10 hrs HW=51.47' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.73 cfs @ 3.63 fps)

Summary for Pond 182P: CB 7

Inflow Area = 0.105 ac, 75.17% Impervious, Inflow Depth > 2.83" for 10-Year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.025 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.025 af
Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.36 cfs @ 12.09 hrs HW=50.16' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.36 cfs @ 2.29 fps)

Summary for Pond 188P: CB 3

Inflow Area = 0.158 ac, 54.66% Impervious, Inflow Depth > 1.76" for 10-Year event
Inflow = 0.34 cfs @ 12.10 hrs, Volume= 0.023 af
Outflow = 0.34 cfs @ 12.10 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.10 hrs, Volume= 0.023 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 48.33' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 101.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0099 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.10 hrs HW=48.32' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.34 cfs @ 1.53 fps)

Summary for Pond 189P: CB 4

Inflow Area = 0.282 ac, 69.07% Impervious, Inflow Depth > 2.56" for 10-Year event
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Reach 204R : WATER QUALITY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0116 ' S= 0.0116 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=48.55' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.87 cfs @ 1.99 fps)

Summary for Pond 191P: CB 42

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.081 af
 Outflow = 1.14 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.14 cfs @ 12.09 hrs, Volume= 0.081 af
 Routed to Pond 238P : SUB. INF 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	12.0" Round Culvert L= 194.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.50' / 49.00' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.11 cfs @ 12.09 hrs HW=51.13' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.11 cfs @ 2.13 fps)

Summary for Pond 193P: CB 1

Inflow Area = 0.172 ac, 31.70% Impervious, Inflow Depth > 0.69" for 10-Year event
 Inflow = 0.11 cfs @ 12.12 hrs, Volume= 0.010 af
 Outflow = 0.11 cfs @ 12.12 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.11 cfs @ 12.12 hrs, Volume= 0.010 af
 Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 47.04' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.84'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.84' / 46.71' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.11 cfs @ 12.12 hrs HW=47.03' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.11 cfs @ 1.52 fps)**Summary for Pond 194P: CB 2**

Inflow Area = 0.094 ac, 74.38% Impervious, Inflow Depth > 2.83" for 10-Year event
Inflow = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af
Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.81'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.81' / 46.71' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.09 hrs HW=47.15' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.32 cfs @ 2.04 fps)**Summary for Pond 196P: CB 5**

Inflow Area = 0.336 ac, 80.22% Impervious, Inflow Depth > 3.11" for 10-Year event
Inflow = 1.26 cfs @ 12.09 hrs, Volume= 0.087 af
Outflow = 1.26 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 1.26 cfs @ 12.09 hrs, Volume= 0.087 af
Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 49.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.00' / 48.50' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.23 cfs @ 12.09 hrs HW=49.67' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.23 cfs @ 2.20 fps)

Summary for Pond 197P: Inf. Basin 1

Inflow Area = 8.503 ac, 57.81% Impervious, Inflow Depth > 0.17" for 10-Year event
 Inflow = 1.38 cfs @ 12.25 hrs, Volume= 0.121 af
 Outflow = 0.70 cfs @ 12.53 hrs, Volume= 0.121 af, Atten= 49%, Lag= 16.8 min
 Discarded = 0.70 cfs @ 12.53 hrs, Volume= 0.121 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 45.90' @ 12.53 hrs Surf.Area= 2,105 sf Storage= 793 cf

Plug-Flow detention time= 8.0 min calculated for 0.120 af (100% of inflow)
 Center-of-Mass det. time= 7.6 min (823.3 - 815.7)

Volume	Invert	Avail.Storage	Storage Description
#1	45.50'	6,632 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
45.50	1,870	0	0
46.00	2,165	1,009	1,009
47.00	2,795	2,480	3,489
48.00	3,492	3,144	6,632

Device	Routing	Invert	Outlet Devices
#1	Discarded	45.50'	8.200 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 45.00'
#2	Primary	45.00'	10.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 45.00' / 43.50' S= 0.0600 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.55 sf
#3	Device 2	46.60'	10.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.70 cfs @ 12.53 hrs HW=45.90' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.70 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=45.50' (Free Discharge)

↑ **2=Culvert** (Passes 0.00 cfs of 0.65 cfs potential flow)

↑ **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 198P: Sub. Inf. 2

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 2.71" for 10-Year event
 Inflow = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af
 Outflow = 2.88 cfs @ 12.26 hrs, Volume= 0.391 af, Atten= 50%, Lag= 9.9 min
 Discarded = 2.88 cfs @ 12.26 hrs, Volume= 0.391 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 52.23' @ 12.26 hrs Surf.Area= 2,788 sf Storage= 2,219 cf

Plug-Flow detention time= 4.6 min calculated for 0.389 af (100% of inflow)

Center-of-Mass det. time= 4.5 min (787.5 - 783.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	51.00'	2,514 cf	25.25'W x 110.42'L x 3.50'H Field A 9,758 cf Overall - 3,472 cf Embedded = 6,286 cf x 40.0% Voids
#2A	51.50'	3,472 cf	ADS_StormTech SC-740 b +Cap x 75 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 75 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		5,986 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	51.00'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	52.75'	12.0" Round Culvert L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 52.75' / 52.65' S= 0.0100 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	54.00'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=2.88 cfs @ 12.26 hrs HW=52.23' (Free Discharge)↑ **1=Exfiltration** (Controls 2.88 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=51.00' (Free Discharge)↑ **2=Culvert** (Controls 0.00 cfs)↑ **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 200P: DMH 1**

Inflow Area = 0.265 ac, 46.75% Impervious, Inflow Depth > 1.45" for 10-Year event
Inflow = 0.43 cfs @ 12.10 hrs, Volume= 0.032 af
Outflow = 0.43 cfs @ 12.10 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.10 hrs, Volume= 0.032 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.08' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.70'	12.0" Round Culvert L= 208.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.70' / 45.70' S= 0.0048 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.10 hrs HW=47.08' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.43 cfs @ 2.30 fps)

Summary for Pond 201P: Sub. Inf. 3

Inflow Area = 1.343 ac, 61.65% Impervious, Inflow Depth > 2.22" for 10-Year event
 Inflow = 3.61 cfs @ 12.09 hrs, Volume= 0.248 af
 Outflow = 1.73 cfs @ 12.28 hrs, Volume= 0.248 af, Atten= 52%, Lag= 11.4 min
 Discarded = 1.73 cfs @ 12.28 hrs, Volume= 0.248 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.48' @ 12.28 hrs Surf.Area= 2,264 sf Storage= 1,334 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 4.2 min (795.7 - 791.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	52.50'	2,058 cf	20.50'W x 110.42'L x 3.50'H Field A 7,922 cf Overall - 2,778 cf Embedded = 5,145 cf x 40.0% Voids
#2A	53.00'	2,778 cf	ADS StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
4,836 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	52.50'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 51.00'
#2	Primary	54.00'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.00' / 53.65' S= 0.0175 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	55.50'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.73 cfs @ 12.28 hrs HW=53.47' (Free Discharge)

↑**1=Exfiltration** (Controls 1.73 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.50' (Free Discharge)

↑**2=Culvert** (Controls 0.00 cfs)

↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 202P: DMH 14

Inflow Area = 3.074 ac, 67.24% Impervious, Inflow Depth = 0.00" for 10-Year event
 Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.65' @ 5.00 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	18.0" Round Culvert L= 89.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.65' / 52.16' S= 0.0055 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.65' (Free Discharge)
 ↑**1=Culvert** (Controls 0.00 cfs)

Summary for Pond 204P: DMH 18

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 2.71" for 10-Year event
 Inflow = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af
 Outflow = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.72 cfs @ 12.09 hrs, Volume= 0.391 af
 Routed to Pond 198P : Sub. Inf. 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.13' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.55'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.55' / 51.50' S= 0.0100 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.61 cfs @ 12.09 hrs HW=53.11' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.61 cfs @ 3.79 fps)

Summary for Pond 205P: DMH 27

Inflow Area = 0.746 ac, 74.14% Impervious, Inflow Depth > 2.82" for 10-Year event
 Inflow = 2.56 cfs @ 12.09 hrs, Volume= 0.175 af
 Outflow = 2.56 cfs @ 12.09 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.56 cfs @ 12.09 hrs, Volume= 0.175 af
 Routed to Pond 201P : Sub. Inf. 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 53.93' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.70'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.70' / 52.60' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.51 cfs @ 12.09 hrs HW=53.91' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.51 cfs @ 3.36 fps)**Summary for Pond 206P: DMH 34**

Inflow Area = 1.284 ac, 75.37% Impervious, Inflow Depth > 2.26" for 10-Year event
Inflow = 3.09 cfs @ 12.09 hrs, Volume= 0.242 af
Outflow = 3.09 cfs @ 12.09 hrs, Volume= 0.242 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 12.09 hrs, Volume= 0.242 af
Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	15.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 54.50' S= -0.1800 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.02 cfs @ 12.09 hrs HW=55.55' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.02 cfs @ 2.75 fps)**Summary for Pond 207P: level spreader 7.8.9**

Inflow Area = 3.450 ac, 70.15% Impervious, Inflow Depth > 2.23" for 10-Year event
Inflow = 14.52 cfs @ 12.10 hrs, Volume= 0.642 af
Outflow = 13.31 cfs @ 12.11 hrs, Volume= 0.639 af, Atten= 8%, Lag= 0.3 min
Primary = 13.31 cfs @ 12.11 hrs, Volume= 0.639 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.27' @ 12.11 hrs Surf.Area= 226 sf Storage= 187 cf

Plug-Flow detention time= 2.4 min calculated for 0.639 af (100% of inflow)

Center-of-Mass det. time= 0.4 min (784.8 - 784.4)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=13.25 cfs @ 12.11 hrs HW=57.27' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 13.25 cfs @ 1.39 fps)**Summary for Pond 208P: level spreader DB6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 2.50" for 10-Year event
 Inflow = 4.69 cfs @ 12.26 hrs, Volume= 0.390 af
 Outflow = 4.68 cfs @ 12.26 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.1 min
 Primary = 4.68 cfs @ 12.26 hrs, Volume= 0.387 af
 Routed to Link 188L : DP 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.13' @ 12.26 hrs Surf.Area= 209 sf Storage= 158 cf

Plug-Flow detention time= 4.6 min calculated for 0.385 af (99% of inflow)
 Center-of-Mass det. time= 2.0 min (848.8 - 846.8)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	70	0	0
52.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=4.61 cfs @ 12.26 hrs HW=52.13' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 4.61 cfs @ 0.98 fps)

Summary for Pond 209P: level spreader 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth = 1.97" for 10-Year event
 Inflow = 2.85 cfs @ 12.06 hrs, Volume= 0.100 af
 Outflow = 2.90 cfs @ 12.07 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.3 min
 Primary = 2.90 cfs @ 12.07 hrs, Volume= 0.097 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.09' @ 12.05 hrs Surf.Area= 204 sf Storage= 150 cf

Plug-Flow detention time= 10.3 min calculated for 0.097 af (97% of inflow)
 Center-of-Mass det. time= 2.0 min (778.3 - 776.3)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=2.53 cfs @ 12.07 hrs HW=57.09' (Free Discharge)
 1=Broad-Crested Rectangular Weir (Weir Controls 2.53 cfs @ 0.80 fps)

Summary for Pond 210P: level spreader 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 2.40" for 10-Year event
 Inflow = 3.03 cfs @ 12.07 hrs, Volume= 0.137 af
 Outflow = 3.46 cfs @ 12.06 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.46 cfs @ 12.06 hrs, Volume= 0.134 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.11' @ 12.06 hrs Surf.Area= 206 sf Storage= 153 cf

Plug-Flow detention time= 8.8 min calculated for 0.134 af (97% of inflow)
 Center-of-Mass det. time= 1.6 min (779.1 - 777.4)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.19 cfs @ 12.06 hrs HW=57.10' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 3.19 cfs @ 0.87 fps)**Summary for Pond 211P: level spreader 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth = 1.03" for 10-Year event
 Inflow = 1.65 cfs @ 12.36 hrs, Volume= 0.151 af
 Outflow = 1.70 cfs @ 12.36 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.70 cfs @ 12.36 hrs, Volume= 0.149 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.07' @ 12.36 hrs Surf.Area= 140 sf Storage= 60 cf

Plug-Flow detention time= 2.9 min calculated for 0.149 af (99% of inflow)

Center-of-Mass det. time= 0.8 min (816.2 - 815.4)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=1.67 cfs @ 12.36 hrs HW=52.07' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 1.67 cfs @ 0.70 fps)

Summary for Pond 212P: level spreader DB5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 1.58" for 10-Year event
 Inflow = 0.69 cfs @ 13.05 hrs, Volume= 0.263 af
 Outflow = 0.69 cfs @ 13.01 hrs, Volume= 0.262 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.69 cfs @ 13.01 hrs, Volume= 0.262 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.04' @ 13.01 hrs Surf.Area= 136 sf Storage= 55 cf

Plug-Flow detention time= 2.3 min calculated for 0.261 af (99% of inflow)
 Center-of-Mass det. time= 1.0 min (906.7 - 905.7)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=0.69 cfs @ 13.01 hrs HW=52.04' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 0.69 cfs @ 0.52 fps)

Summary for Pond 215P: CB 5A

Inflow Area = 0.149 ac, 77.32% Impervious, Inflow Depth > 3.02" for 10-Year event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af
 Outflow = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.40'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.40' / 48.20' S= 0.0154 ' S= 0.0154 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.09 hrs HW=48.81' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.53 cfs @ 1.73 fps)

Summary for Pond 216P: CB 8A

Inflow Area = 0.484 ac, 16.33% Impervious, Inflow Depth > 0.13" for 10-Year event
 Inflow = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af
 Outflow = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.69' @ 13.80 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.63'	12.0" Round Culvert L= 63.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.63' / 49.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.01 cfs @ 13.80 hrs HW=49.69' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.01 cfs @ 0.64 fps)

Summary for Pond 217P: DMH 8A

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 0.78" for 10-Year event
 Inflow = 4.22 cfs @ 12.09 hrs, Volume= 0.287 af
 Outflow = 4.22 cfs @ 12.09 hrs, Volume= 0.287 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.22 cfs @ 12.09 hrs, Volume= 0.287 af
 Routed to Pond 245P : SUB ONF. 1B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.60'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.60' / 50.50' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.14 cfs @ 12.09 hrs HW=51.83' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 4.14 cfs @ 3.64 fps)

Summary for Pond 218P: CB A

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 2.31" for 10-Year event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af
 Routed to Pond 219P : DMH A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.31' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.85'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.85' / 51.32' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=52.31' (Free Discharge)

↑1=Culvert (Barrel Controls 0.60 cfs @ 2.50 fps)

Summary for Pond 219P: DMH A

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 2.31" for 10-Year event
Inflow = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af
Outflow = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 12.09 hrs, Volume= 0.041 af
Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.73' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.27'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.27' / 50.93' S= 0.0057 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=51.73' (Free Discharge)

↑1=Culvert (Barrel Controls 0.60 cfs @ 2.52 fps)

Summary for Pond 221P: DET Basin 6

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 2.66" for 10-Year event
Inflow = 6.80 cfs @ 12.12 hrs, Volume= 0.415 af
Outflow = 4.69 cfs @ 12.26 hrs, Volume= 0.390 af, Atten= 31%, Lag= 8.8 min
Primary = 4.69 cfs @ 12.26 hrs, Volume= 0.390 af
Routed to Pond 208P : level spreader DB6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.80' @ 12.26 hrs Surf.Area= 4,604 sf Storage= 5,929 cf

Plug-Flow detention time= 96.1 min calculated for 0.390 af (94% of inflow)

Center-of-Mass det. time= 78.3 min (846.8 - 768.5)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	12,315 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	2,498	0	0
53.00	3,157	2,828	2,828
54.00	4,968	4,063	6,890
55.00	5,881	5,425	12,315

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	18.0" Round Culvert L= 34.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 52.00' / 51.80' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.63 cfs @ 12.26 hrs HW=53.80' (Free Discharge)

- 1=Culvert (Passes 4.63 cfs of 7.66 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.41 cfs @ 6.19 fps)
 3=Orifice/Grate (Weir Controls 4.21 cfs @ 1.78 fps)

Summary for Pond 223P: Sub. Inf. 4B

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 3.79" for 10-Year event
 Inflow = 7.15 cfs @ 12.09 hrs, Volume= 0.523 af
 Outflow = 7.08 cfs @ 12.10 hrs, Volume= 0.442 af, Atten= 1%, Lag= 1.0 min
 Discarded = 0.03 cfs @ 5.45 hrs, Volume= 0.038 af
 Primary = 7.05 cfs @ 12.10 hrs, Volume= 0.404 af
 Routed to Pond 15P : Det. Basin 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.63' @ 12.10 hrs Surf.Area= 1,296 sf Storage= 4,147 cf

Plug-Flow detention time= 76.9 min calculated for 0.441 af (84% of inflow)
 Center-of-Mass det. time= 32.1 min (784.0 - 751.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	588 cf	18.00"W x 72.00"L x 5.17"H Field A 6,700 cf Overall - 5,230 cf Embedded = 1,470 cf x 40.0% Voids
#2A	59.00'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 2 Rows
		4,588 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area
#2	Primary	58.00'	18.0" Round Culvert L= 54.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 58.00' / 54.00' S= 0.0741 '/' Cc= 0.900

#3 Device 2 62.00' n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long + 1.0 ' SideZ x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.45 hrs HW=58.55' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=6.96 cfs @ 12.10 hrs HW=62.63' (Free Discharge)

↑**2=Culvert** (Passes 6.96 cfs of 16.76 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 6.96 cfs @ 2.40 fps)

Summary for Pond 231P: Sub inf. 4A

Inflow Area = 0.514 ac, 88.33% Impervious, Inflow Depth > 4.03" for 10-Year event
 Inflow = 2.30 cfs @ 12.09 hrs, Volume= 0.173 af
 Outflow = 0.16 cfs @ 13.41 hrs, Volume= 0.064 af, Atten= 93%, Lag= 79.4 min
 Discarded = 0.04 cfs @ 7.45 hrs, Volume= 0.042 af
 Primary = 0.13 cfs @ 13.41 hrs, Volume= 0.022 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.05' @ 13.41 hrs Surf.Area= 1,508 sf Storage= 4,792 cf

Plug-Flow detention time= 186.6 min calculated for 0.064 af (37% of inflow)

Center-of-Mass det. time= 70.0 min (814.0 - 743.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	674 cf	26.00'W x 58.00'L x 6.17'H Field A 9,304 cf Overall - 7,620 cf Embedded = 1,684 cf x 40.0% Voids
#2A	55.50'	6,000 cf	Shea Leaching Chamber 8x14x5.7 x 12 Inside #1 Inside= 84.0"W x 60.0"H => 38.46 sf x 13.00'L = 500.0 cf Outside= 96.0"W x 68.0"H => 45.36 sf x 14.00'L = 635.0 cf 12 Chambers in 3 Rows
		6,674 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	59.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.04 cfs @ 7.45 hrs HW=55.06' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.11 cfs @ 13.41 hrs HW=59.05' (Free Discharge)

↑**2=Orifice/Grate** (Weir Controls 0.11 cfs @ 0.72 fps)

Summary for Pond 233P: SUB. INF. 11

Inflow Area = 0.862 ac, 81.83% Impervious, Inflow Depth > 3.85" for 10-Year event
 Inflow = 3.77 cfs @ 12.09 hrs, Volume= 0.277 af
 Outflow = 2.87 cfs @ 12.16 hrs, Volume= 0.270 af, Atten= 24%, Lag= 4.4 min
 Discarded = 0.04 cfs @ 12.16 hrs, Volume= 0.034 af
 Primary = 2.84 cfs @ 12.16 hrs, Volume= 0.236 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.40' @ 12.16 hrs Surf.Area= 1,044 sf Storage= 1,414 cf

Plug-Flow detention time= 24.3 min calculated for 0.270 af (98% of inflow)
 Center-of-Mass det. time= 14.3 min (764.6 - 750.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	59.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 54.00'
#2	Primary	59.00'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.00' / 53.00' S= 0.1714 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Primary	60.90'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 12.16 hrs HW=60.39' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.03 cfs)

Primary OutFlow Max=2.81 cfs @ 12.16 hrs HW=60.39' (Free Discharge)

↑ **2=Culvert** (Inlet Controls 2.81 cfs @ 3.58 fps)

↑ **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 235P: ILSF BASIN

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 2.10" for 10-Year event
 Inflow = 23.98 cfs @ 12.11 hrs, Volume= 1.248 af
 Outflow = 4.11 cfs @ 12.61 hrs, Volume= 1.179 af, Atten= 83%, Lag= 29.9 min
 Primary = 4.11 cfs @ 12.61 hrs, Volume= 1.179 af
 Routed to Link 188L : DP 3

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.00' @ 12.61 hrs Surf.Area= 34,884 sf Storage= 25,733 cf

Plug-Flow detention time= 93.4 min calculated for 1.179 af (94% of inflow)
 Center-of-Mass det. time= 76.1 min (863.5 - 787.5)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	63,266 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	16,688	0	0
57.00	34,922	25,805	25,805
58.00	40,000	37,461	63,266

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	8.0" Vert. Orifice/Grate X 3.00 C= 0.600 Limited to weir flow at low heads
#2	Primary	57.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=4.11 cfs @ 12.61 hrs HW=57.00' (Free Discharge)

↑ **1=Orifice/Grate** (Orifice Controls 4.11 cfs @ 3.92 fps)
 ↓ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 238P: SUB. INF 3A

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 3.51" for 10-Year event
 Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.081 af
 Outflow = 0.48 cfs @ 11.95 hrs, Volume= 0.081 af, Atten= 58%, Lag= 0.0 min
 Discarded = 0.48 cfs @ 11.95 hrs, Volume= 0.081 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.72' @ 12.30 hrs Surf.Area= 1,044 sf Storage= 402 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 3.8 min (765.5 - 761.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	426 cf	18.00'W x 58.00'L x 4.17'H Field A 4,353 cf Overall - 3,288 cf Embedded = 1,065 cf x 40.0% Voids
#2A	49.50'	2,400 cf	Shea Leaching Chamber 8x14x3.7 x 8 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 8 Chambers in 2 Rows
		2,826 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	20.000 in/hr Exfiltration over Surface area
#2	Primary	53.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.48 cfs @ 11.95 hrs HW=49.05' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.48 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 239P: INF 3C

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 3.11" for 10-Year event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 0.065 af
 Outflow = 0.36 cfs @ 11.95 hrs, Volume= 0.065 af, Atten= 61%, Lag= 0.0 min
 Discarded = 0.36 cfs @ 11.95 hrs, Volume= 0.065 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.20' @ 12.34 hrs Surf.Area= 1,044 sf Storage= 381 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 5.0 min (778.6 - 773.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	55.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	58.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.36 cfs @ 11.95 hrs HW=54.54' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.36 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.50' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 240P: Sub. Inf. 3B

Inflow Area = 1.365 ac, 60.63% Impervious, Inflow Depth > 2.20" for 10-Year event
 Inflow = 3.65 cfs @ 12.09 hrs, Volume= 0.251 af
 Outflow = 2.13 cfs @ 12.22 hrs, Volume= 0.251 af, Atten= 42%, Lag= 7.6 min
 Discarded = 2.13 cfs @ 12.22 hrs, Volume= 0.251 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.72' @ 12.22 hrs Surf.Area= 2,249 sf Storage= 864 cf

Plug-Flow detention time= 1.9 min calculated for 0.251 af (100% of inflow)
 Center-of-Mass det. time= 1.9 min (792.1 - 790.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	2,035 cf	25.25'W x 89.06'L x 3.50'H Field A 7,870 cf Overall - 2,783 cf Embedded = 5,087 cf x 40.0% Voids
#2A	49.50'	2,783 cf	ADS_StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
4,818 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	30.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	51.90'	1.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=2.12 cfs @ 12.22 hrs HW=49.72' (Free Discharge)
 ↑1=Exfiltration (Controls 2.12 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 241P: Sub. Inf. 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 3.96" for 10-Year event
 Inflow = 3.05 cfs @ 12.09 hrs, Volume= 0.227 af
 Outflow = 3.06 cfs @ 12.07 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.04 cfs @ 12.07 hrs, Volume= 0.040 af
 Primary = 3.03 cfs @ 12.07 hrs, Volume= 0.137 af
 Routed to Pond 210P : level spreader 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 59.11' @ 12.07 hrs Surf.Area= 1,096 sf Storage= 2,319 cf

Plug-Flow detention time= 91.1 min calculated for 0.177 af (78% of inflow)

Center-of-Mass det. time= 33.6 min (779.4 - 745.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.50'	1,011 cf	20.50'W x 53.46'L x 3.50'H Field A 3,836 cf Overall - 1,308 cf Embedded = 2,528 cf x 40.0% Voids
#2A	56.00'	1,308 cf	ADS_StormTech SC-740 b +Cap x 28 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 28 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		2,319 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	56.00'	15.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 56.00' / 56.00' S= 0.0000 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	58.70'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.07 hrs HW=59.09' (Free Discharge)↑ **1=Exfiltration** (Controls 0.04 cfs)**Primary OutFlow** Max=2.88 cfs @ 12.07 hrs HW=59.09' (Free Discharge)↑ **2=Culvert** (Passes 2.88 cfs of 6.83 cfs potential flow)↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 2.88 cfs @ 1.83 fps)**Summary for Pond 242P: SUB INF.1C**

Inflow Area = 7.166 ac, 62.94% Impervious, Inflow Depth > 0.67" for 10-Year event
Inflow = 5.76 cfs @ 12.09 hrs, Volume= 0.399 af
Outflow = 1.28 cfs @ 11.85 hrs, Volume= 0.399 af, Atten= 78%, Lag= 0.0 min
Discarded = 1.28 cfs @ 11.85 hrs, Volume= 0.399 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 49.14' @ 12.53 hrs Surf.Area= 3,692 sf Storage= 4,314 cf

Plug-Flow detention time= 20.4 min calculated for 0.399 af (100% of inflow)

Center-of-Mass det. time= 20.3 min (815.3 - 795.0)

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Type III 24-hr 10-Year Rainfall=4.83"

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Volume	Invert	Avail.Storage	Storage Description
#1A	47.50'	1,359 cf	26.00'W x 142.00'L x 5.17'H Field A 19,088 cf Overall - 15,691 cf Embedded = 3,396 cf x 40.0% Voids
#2A	48.00'	12,000 cf	Shea Leaching Chamber 8x14x4.7 x 30 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 30 Chambers in 3 Rows
		13,359 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	51.70'	15.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.28 cfs @ 11.85 hrs HW=47.58' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 1.28 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=47.50' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 244P: SUB INF. 1A**

Inflow Area = 4.558 ac, 68.27% Impervious, Inflow Depth > 0.10" for 10-Year event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af
 Outflow = 0.42 cfs @ 12.10 hrs, Volume= 0.037 af, Atten= 23%, Lag= 0.6 min
 Discarded = 0.42 cfs @ 12.10 hrs, Volume= 0.037 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.79' @ 12.16 hrs Surf.Area= 1,800 sf Storage= 68 cf

Plug-Flow detention time= 1.6 min calculated for 0.037 af (100% of inflow)

Center-of-Mass det. time= 1.4 min (777.7 - 776.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	793 cf	18.00'W x 100.00'L x 5.17'H Field A 9,306 cf Overall - 7,323 cf Embedded = 1,983 cf x 40.0% Voids
#2A	48.20'	5,600 cf	Shea Leaching Chamber 8x14x4.7 x 14 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 14 Chambers in 2 Rows
		6,393 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	10.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	8.0" Horiz. Orifice/Grate C= 0.600

Limited to weir flow at low heads

Discarded OutFlow Max=0.42 cfs @ 12.10 hrs HW=47.78' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.42 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 245P: SUB ONF. 1B

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 0.78" for 10-Year event
 Inflow = 4.22 cfs @ 12.09 hrs, Volume= 0.287 af
 Outflow = 1.30 cfs @ 11.90 hrs, Volume= 0.287 af, Atten= 69%, Lag= 0.0 min
 Discarded = 1.30 cfs @ 11.90 hrs, Volume= 0.287 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.41' @ 12.43 hrs Surf.Area= 1,872 sf Storage= 2,285 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 9.1 min (795.9 - 786.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	733 cf	26.00'W x 72.00'L x 5.17'H Field A 9,678 cf Overall - 7,846 cf Embedded = 1,833 cf x 40.0% Voids
#2A	48.20'	6,000 cf	Shea Leaching Chamber 8x14x4.7 x 15 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 15 Chambers in 3 Rows
		6,733 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	30.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.30 cfs @ 11.90 hrs HW=47.77' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 1.30 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 246P: Sub. Inf. 3D

Inflow Area = 1.330 ac, 35.11% Impervious, Inflow Depth > 1.11" for 10-Year event
 Inflow = 1.68 cfs @ 12.10 hrs, Volume= 0.123 af
 Outflow = 0.85 cfs @ 12.31 hrs, Volume= 0.123 af, Atten= 49%, Lag= 12.7 min
 Discarded = 0.85 cfs @ 12.31 hrs, Volume= 0.123 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.50' @ 12.31 hrs Surf.Area= 2,352 sf Storage= 474 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 2.7 min (825.0 - 822.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	2,121 cf	34.75'W x 67.70'L x 3.50'H Field A 8,234 cf Overall - 2,931 cf Embedded = 5,302 cf x 40.0% Voids
#2A	54.50'	2,931 cf	ADS_StormTech SC-740 b +Cap x 63 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 63 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
		5,052 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 42.30'
#2	Primary	57.00'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.85 cfs @ 12.31 hrs HW=54.50' (Free Discharge)
 ↑1=Exfiltration (Controls 0.85 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 248P: SUB.INF 3F

Inflow Area = 0.333 ac, 89.47% Impervious, Inflow Depth > 3.71" for 10-Year event
 Inflow = 1.67 cfs @ 12.00 hrs, Volume= 0.103 af
 Outflow = 0.45 cfs @ 11.75 hrs, Volume= 0.103 af, Atten= 73%, Lag= 0.0 min
 Discarded = 0.45 cfs @ 11.75 hrs, Volume= 0.103 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Type III 24-hr 10-Year Rainfall=4.83"

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Peak Elev= 54.98' @ 12.30 hrs Surf.Area= 1,296 sf Storage= 772 cf

Plug-Flow detention time= 8.6 min calculated for 0.103 af (100% of inflow)

Center-of-Mass det. time= 8.4 min (759.1 - 750.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	518 cf	18.00'W x 72.00'L x 4.17'H Field A 5,404 cf Overall - 4,110 cf Embedded = 1,294 cf x 40.0% Voids
#2A	54.50'	3,000 cf	Shea Leaching Chamber 8x14x3.7 x 10 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 10 Chambers in 2 Rows
		3,518 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.45 cfs @ 11.75 hrs HW=54.06' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.45 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 249P: SUB.INF 3E**

Inflow Area = 0.139 ac, 100.00% Impervious, Inflow Depth > 4.26" for 10-Year event
Inflow = 0.75 cfs @ 12.00 hrs, Volume= 0.049 af
Outflow = 0.27 cfs @ 11.85 hrs, Volume= 0.049 af, Atten= 63%, Lag= 0.0 min
Discarded = 0.27 cfs @ 11.85 hrs, Volume= 0.049 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.61' @ 12.17 hrs Surf.Area= 792 sf Storage= 232 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 3.6 min (734.5 - 730.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	287 cf	18.00'W x 44.00'L x 3.17'H Field A 2,511 cf Overall - 1,794 cf Embedded = 716 cf x 40.0% Voids
#2A	55.50'	1,200 cf	Shea Leaching Chamber 8x14x2.7 x 6 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 6 Chambers in 2 Rows
		1,487 cf	Total Available Storage

Storage Group A created with Chamber Wizard

RH Post 6-29-26

Type III 24-hr 10-Year Rainfall=4.83"

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Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.27 cfs @ 11.85 hrs HW=55.04' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.27 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=55.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 251P: Sub. Inf. 10**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 3.60" for 10-Year event
 Inflow = 4.23 cfs @ 12.09 hrs, Volume= 0.303 af
 Outflow = 4.18 cfs @ 12.11 hrs, Volume= 0.243 af, Atten= 1%, Lag= 1.0 min
 Discarded = 0.07 cfs @ 12.11 hrs, Volume= 0.064 af
 Primary = 4.11 cfs @ 12.11 hrs, Volume= 0.179 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.42' @ 12.11 hrs Surf.Area= 1,610 sf Storage= 3,060 cf

Plug-Flow detention time= 81.8 min calculated for 0.243 af (80% of inflow)
 Center-of-Mass det. time= 28.6 min (787.1 - 758.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	1,468 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,967 cf Embedded = 3,669 cf x 40.0% Voids
#2A	59.00'	1,967 cf	ADS StormTech SC-740 b +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
3,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 55.00'
#2	Primary	60.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.07 cfs @ 12.11 hrs HW=61.41' (Free Discharge)↑**1=Exfiltration** (Controls 0.07 cfs)**Primary OutFlow** Max=4.05 cfs @ 12.11 hrs HW=61.42' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Weir Controls 4.05 cfs @ 1.96 fps)

Summary for Link 59L: DP 1

Inflow Area = 8.749 ac, 31.63% Impervious, Inflow Depth > 0.75" for 10-Year event
Inflow = 2.79 cfs @ 12.44 hrs, Volume= 0.546 af
Primary = 2.79 cfs @ 12.44 hrs, Volume= 0.546 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 60L: DP 2

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 2.10" for 10-Year event
Inflow = 23.98 cfs @ 12.11 hrs, Volume= 1.248 af
Primary = 23.98 cfs @ 12.11 hrs, Volume= 1.248 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 235P : ILSF BASIN

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 188L: DP 3

Inflow Area = 14.503 ac, 39.16% Impervious, Inflow Depth > 1.61" for 10-Year event
Inflow = 11.09 cfs @ 12.30 hrs, Volume= 1.949 af
Primary = 11.09 cfs @ 12.30 hrs, Volume= 1.949 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 203L: 3A

Inflow Area = 15.797 ac, 45.37% Impervious, Inflow Depth > 0.01" for 10-Year event
Inflow = 0.03 cfs @ 15.44 hrs, Volume= 0.013 af
Primary = 0.03 cfs @ 15.44 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1S: P1A

Runoff = 1.01 cfs @ 12.09 hrs, Volume= 0.078 af, Depth> 5.40"
Routed to Pond 16P : CB 58

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
254	74	>75% Grass cover, Good, HSG C
1,384	98	Unconnected roofs, HSG C
5,863	98	Paved parking, HSG C
7,501	97	Weighted Average
254		3.39% Pervious Area
7,247		96.61% Impervious Area
1,384		19.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: P1B

Runoff = 2.13 cfs @ 12.09 hrs, Volume= 0.157 af, Depth> 4.93"
Routed to Pond 17P : CB 59

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,226	98	Unconnected roofs, HSG C
4,280	74	>75% Grass cover, Good, HSG C
7,078	98	Paved parking, HSG C
16,584	92	Weighted Average
4,280		25.81% Pervious Area
12,304		74.19% Impervious Area
5,226		42.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: P1C

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af, Depth> 4.62"
Routed to Pond 18P : CB 63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
1,616	98	Unconnected roofs, HSG C
2,173	74	>75% Grass cover, Good, HSG C
2,298	98	Paved parking, HSG C
6,087	89	Weighted Average
2,173		35.70% Pervious Area
3,914		64.30% Impervious Area
1,616		41.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 4S: P1D

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.027 af, Depth> 5.13"
 Routed to Pond 19P : CB 62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
512	74	>75% Grass cover, Good, HSG C
2,255	98	Paved parking, HSG C
2,767	94	Weighted Average
512		18.50% Pervious Area
2,255		81.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 5S: P1E

Runoff = 1.44 cfs @ 12.09 hrs, Volume= 0.104 af, Depth> 4.73"
 Routed to Pond 26P : CB 61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,900	74	>75% Grass cover, Good, HSG C
3,976	98	Unconnected roofs, HSG C
3,662	98	Paved parking, HSG C
11,538	90	Weighted Average
3,900		33.80% Pervious Area
7,638		66.20% Impervious Area
3,976		52.06% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: P1F

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.045 af, Depth> 4.83"
Routed to Pond 27P : CB 60

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,378	74	>75% Grass cover, Good, HSG C
429	98	Unconnected roofs, HSG C
3,010	98	Paved parking, HSG C
4,817	91	Weighted Average
1,378		28.61% Pervious Area
3,439		71.39% Impervious Area
429		12.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: P1G

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.058 af, Depth> 5.47"
Routed to Pond 22P : CB 56

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,511	98	Paved parking, HSG C
5,511		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 8S: P1H

Runoff = 1.80 cfs @ 12.09 hrs, Volume= 0.135 af, Depth> 5.13"
Routed to Pond 23P : CB 57

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
2,554	74	>75% Grass cover, Good, HSG C
5,795	98	Unconnected roofs, HSG C
5,364	98	Paved parking, HSG C
13,713	94	Weighted Average
2,554		18.62% Pervious Area
11,159		81.38% Impervious Area
5,795		51.93% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: P1I

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 0.035 af, Depth> 5.04"
 Routed to Pond 30P : CB 55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
780	74	>75% Grass cover, Good, HSG C
2,836	98	Paved parking, HSG C
3,616	93	Weighted Average
780		21.57% Pervious Area
2,836		78.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 10S: P1J

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 5.47"
 Routed to Pond 33P : CB 53

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,937	98	Paved parking, HSG C
1,937		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 11S: P1K

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af, Depth> 5.40"
Routed to Pond 31P : CB 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
61	74	>75% Grass cover, Good, HSG C
354	98	Unconnected roofs, HSG C
1,521	98	Paved parking, HSG C
1,936	97	Weighted Average
61		3.15% Pervious Area
1,875		96.85% Impervious Area
354		18.88% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 12S: P1L

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.095 af, Depth> 5.04"
Routed to Pond 32P : CB 52

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,077	74	>75% Grass cover, Good, HSG C
2,390	98	Unconnected roofs, HSG C
5,354	98	Paved parking, HSG C
9,821	93	Weighted Average
2,077		21.15% Pervious Area
7,744		78.85% Impervious Area
2,390		30.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: P1M

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 5.40"
Routed to Pond 36P : CB 54

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
476	74	>75% Grass cover, Good, HSG C
569	98	Unconnected roofs, HSG C
7,654	98	Paved parking, HSG C
8,699	97	Weighted Average
476		5.47% Pervious Area
8,223		94.53% Impervious Area
569		6.92% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: P1N

Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.088 af, Depth> 3.09"
Routed to Pond 15P : Det. Basin 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
586	98		Unconnected roofs, HSG C
14,279	74		>75% Grass cover, Good, HSG C
14,865	75	74	Weighted Average, UI Adjusted
14,279			96.06% Pervious Area
586			3.94% Impervious Area
586			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: P1P

Runoff = 0.99 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 4.73"
Routed to Pond 42P : CB 50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,926	98	Unconnected roofs, HSG C
2,623	74	>75% Grass cover, Good, HSG C
3,390	98	Paved parking, HSG C
7,939	90	Weighted Average
2,623		33.04% Pervious Area
5,316		66.96% Impervious Area
1,926		36.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: P1O

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 5.47"
 Routed to Pond 41P : CB 49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
978	98	Paved parking, HSG C
978		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 44S: P1R

Runoff = 1.69 cfs @ 12.09 hrs, Volume= 0.117 af, Depth> 3.99"
 Routed to Pond 46P : CB 48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
704	98	Unconnected pavement, HSG C
1,196	74	>75% Grass cover, Good, HSG C
955	98	Paved parking, HSG C
2,884	98	Unconnected roofs, HSG A
3,316	39	>75% Grass cover, Good, HSG A
6,279	98	Paved parking, HSG A
15,334	83	Weighted Average
4,512		29.42% Pervious Area
10,822		70.58% Impervious Area
3,588		33.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 45S: P1Q

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.054 af, Depth> 5.40"
 Routed to Pond 47P : CB 47

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Type III 24-hr 25-Year Rainfall=6.16"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
49	74	>75% Grass cover, Good, HSG C
49	98	Unconnected roofs, HSG C
1,120	98	Paved parking, HSG C
80	39	>75% Grass cover, Good, HSG A
442	98	Unconnected roofs, HSG A
3,507	98	Paved parking, HSG A
5,247	97	Weighted Average
129		2.46% Pervious Area
5,118		97.54% Impervious Area
491		9.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 50S: P1S

Runoff = 2.24 cfs @ 12.09 hrs, Volume= 0.152 af, Depth> 3.48"
 Routed to Pond 53P : CB 21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
6,743	98	Unconnected roofs, HSG A
7,903	39	>75% Grass cover, Good, HSG A
8,226	98	Paved parking, HSG A
22,872	78	Weighted Average
7,903		34.55% Pervious Area
14,969		65.45% Impervious Area
6,743		45.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 51S: P1T

Runoff = 0.57 cfs @ 12.10 hrs, Volume= 0.041 af, Depth> 1.53"
 Routed to Pond 52P : CB 20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
9,878	39	>75% Grass cover, Good, HSG A
4,085	98	Paved parking, HSG A
13,963	56	Weighted Average
9,878		70.74% Pervious Area
4,085		29.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 57S: (new Subcat)

Runoff = 0.10 cfs @ 12.44 hrs, Volume= 0.019 af, Depth> 0.41"
 Routed to Pond 56P : Inf. Basin 3G

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
1,317	98		Unconnected roofs, HSG A
4,111	30		Woods, Good, HSG A
18,083	39		>75% Grass cover, Good, HSG A
23,511	41	39	Weighted Average, UI Adjusted
22,194			94.40% Pervious Area
1,317			5.60% Impervious Area
1,317			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow,
					Woods: Light underbrush n= 0.400 P2= 3.10"
0.5	37	0.0300	1.21		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
13.0	87	Total			

Summary for Subcatchment 58S: P1AA

Runoff = 2.32 cfs @ 12.37 hrs, Volume= 0.313 af, Depth> 0.75"
 Routed to Link 59L : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Adj	Description
1,776	98		Unconnected roofs, HSG C
20,134	70		Woods, Good, HSG C
38,005	74		>75% Grass cover, Good, HSG C
3,034	98		Unconnected roofs, HSG A
* 12,179	39		Pervious Pavement
84,195	30		Woods, Good, HSG A
57,506	39		>75% Grass cover, Good, HSG A
766	98		Unconnected pavement, HSG A
217,595	46	45	Weighted Average, UI Adjusted
212,019			97.44% Pervious Area
5,576			2.56% Impervious Area
5,576			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
1.9	80	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.4	130	Total			

Summary for Subcatchment 60S: P2C

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 4.93"
Routed to Pond 62P : CB 66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,086	98	Unconnected roofs, HSG C
1,688	74	>75% Grass cover, Good, HSG C
2,712	98	Paved parking, HSG C
6,486	92	Weighted Average
1,688		26.03% Pervious Area
4,798		73.97% Impervious Area
2,086		43.48% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 61S: P2D

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 5.23"
Routed to Pond 63P : CB 67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
190	74	>75% Grass cover, Good, HSG C
1,274	98	Paved parking, HSG C
1,464	95	Weighted Average
190		12.98% Pervious Area
1,274		87.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 62S: P2J

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 0.099 af, Depth> 4.83"
 Routed to Pond 69P : CB 72

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,207	98	Unconnected roofs, HSG C
2,897	74	>75% Grass cover, Good, HSG C
4,571	98	Paved parking, HSG C
10,675	91	Weighted Average
2,897		27.14% Pervious Area
7,778		72.86% Impervious Area
3,207		41.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 63S: P2K

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 0.063 af, Depth> 4.93"
 Routed to Pond 70P : CB 73

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,542	74	>75% Grass cover, Good, HSG C
1,151	98	Unconnected roofs, HSG C
4,005	98	Paved parking, HSG C
6,698	92	Weighted Average
1,542		23.02% Pervious Area
5,156		76.98% Impervious Area
1,151		22.32% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 64S: P3L

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 4.73"
Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
965	74	>75% Grass cover, Good, HSG C
1,920	98	Paved parking, HSG C
2,885	90	Weighted Average
965		33.45% Pervious Area
1,920		66.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 65S: P3M

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af, Depth> 4.83"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,636	74	>75% Grass cover, Good, HSG C
1,756	98	Unconnected roofs, HSG C
2,005	98	Paved parking, HSG C
5,397	91	Weighted Average
1,636		30.31% Pervious Area
3,761		69.69% Impervious Area
1,756		46.69% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 66S: P3N

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 4.83"
Routed to Pond 83P : CB 86

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Type III 24-hr 25-Year Rainfall=6.16"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,108	74	>75% Grass cover, Good, HSG C
1,824	98	Unconnected roofs, HSG C
3,816	98	Paved parking, HSG C
7,748	91	Weighted Average
2,108		27.21% Pervious Area
5,640		72.79% Impervious Area
1,824		32.34% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 67S: P3O

Runoff = 1.07 cfs @ 12.09 hrs, Volume= 0.080 af, Depth> 5.04"
 Routed to Pond 84P : CB 87

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,792	74	>75% Grass cover, Good, HSG C
2,605	98	Unconnected roofs, HSG C
3,857	98	Paved parking, HSG C
8,254	93	Weighted Average
1,792		21.71% Pervious Area
6,462		78.29% Impervious Area
2,605		40.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 68S: P3P

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 0.039 af, Depth> 5.04"
 Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
802	74	>75% Grass cover, Good, HSG C
3,268	98	Paved parking, HSG C
4,070	93	Weighted Average
802		19.71% Pervious Area
3,268		80.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 69S: P2E

Runoff = 0.93 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 5.13"
Routed to Pond 66P : CB 68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,227	74	>75% Grass cover, Good, HSG C
1,596	98	Unconnected roofs, HSG C
4,265	98	Paved parking, HSG C
7,088	94	Weighted Average
1,227		17.31% Pervious Area
5,861		82.69% Impervious Area
1,596		27.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 70S: P2F

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 0.041 af, Depth> 5.47"
Routed to Pond 67P : CB 69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,932	98	Paved parking, HSG C
3,932		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 71S: P2A

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 0.099 af, Depth> 4.73"
Routed to Pond 73P : CB 64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,800	98	Unconnected roofs, HSG C
3,751	74	>75% Grass cover, Good, HSG C
4,427	98	Paved parking, HSG C
10,978	90	Weighted Average
3,751		34.17% Pervious Area
7,227		65.83% Impervious Area
2,800		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 72S: P2B

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 0.068 af, Depth> 4.73"
Routed to Pond 74P : CB 65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,643	74	>75% Grass cover, Good, HSG C
4,920	98	Paved parking, HSG C
7,563	90	Weighted Average
2,643		34.95% Pervious Area
4,920		65.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 73S: P2G

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 0.076 af, Depth> 4.83"
Routed to Pond 76P : CB 70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,345	74	>75% Grass cover, Good, HSG C
1,348	98	Unconnected roofs, HSG C
122	98	Unconnected roofs, HSG A
34	39	>75% Grass cover, Good, HSG A
673	98	Paved parking, HSG A
3,701	98	Paved parking, HSG C
8,223	91	Weighted Average
2,379		28.93% Pervious Area
5,844		71.07% Impervious Area
1,470		25.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 74S: P2H

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 5.23"
Routed to Pond 77P : CB 71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
200	39	>75% Grass cover, Good, HSG A
610	98	Unconnected roofs, HSG A
3,458	98	Paved parking, HSG A
4,268	95	Weighted Average
200		4.69% Pervious Area
4,068		95.31% Impervious Area
610		15.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 75S: P3Q

Runoff = 1.26 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 4.62"
Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,641	74	>75% Grass cover, Good, HSG C
1,994	98	Unconnected roofs, HSG C
4,584	98	Paved parking, HSG C
10,219	89	Weighted Average
3,641		35.63% Pervious Area
6,578		64.37% Impervious Area
1,994		30.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 76S: P3R

Runoff = 1.76 cfs @ 12.09 hrs, Volume= 0.129 af, Depth> 4.93"
Routed to Pond 103P : CB 92

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,162	74	>75% Grass cover, Good, HSG C
4,063	98	Unconnected roofs, HSG C
6,424	98	Paved parking, HSG C
13,649	92	Weighted Average
3,162		23.17% Pervious Area
10,487		76.83% Impervious Area
4,063		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 77S: P3S

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 4.83"
Routed to Pond 102P : CB 93

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,358	74	>75% Grass cover, Good, HSG C
702	98	Unconnected roofs, HSG C
4,697	98	Paved parking, HSG C
7,757	91	Weighted Average
2,358		30.40% Pervious Area
5,399		69.60% Impervious Area
702		13.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 78S: P1S

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.104 af, Depth> 4.30"
Routed to Pond 112P : CB 45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
4,541	74	>75% Grass cover, Good, HSG C
2,275	98	Unconnected roofs, HSG C
693	39	>75% Grass cover, Good, HSG A
412	98	Paved parking, HSG A
4,709	98	Paved parking, HSG C
12,630	86	Weighted Average
5,234		41.44% Pervious Area
7,396		58.56% Impervious Area
2,275		30.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 79S: P1T

Runoff = 1.52 cfs @ 12.09 hrs, Volume= 0.111 af, Depth> 4.83"
 Routed to Pond 122P : CB 46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,187	74	>75% Grass cover, Good, HSG C
2,930	98	Unconnected roofs, HSG C
118	39	>75% Grass cover, Good, HSG A
214	98	Paved parking, HSG A
5,533	98	Paved parking, HSG C
11,982	91	Weighted Average
3,305		27.58% Pervious Area
8,677		72.42% Impervious Area
2,930		33.77% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 80S: P3KK

Runoff = 0.96 cfs @ 12.09 hrs, Volume= 0.067 af, Depth> 4.09"
 Routed to Pond 125P : CB 36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,989	39	>75% Grass cover, Good, HSG A
4,268	98	Unconnected roofs, HSG A
2,300	98	Paved parking, HSG A
8,557	84	Weighted Average
1,989		23.24% Pervious Area
6,568		76.76% Impervious Area
4,268		64.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 81S: P3LL

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 0.081 af, Depth> 4.30"
Routed to Pond 126P : CB 37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,037	39	>75% Grass cover, Good, HSG A
4,991	98	Unconnected roofs, HSG A
2,757	98	Paved parking, HSG A
9,785	86	Weighted Average
2,037		20.82% Pervious Area
7,748		79.18% Impervious Area
4,991		64.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 82S: P3SS

Runoff = 1.29 cfs @ 12.09 hrs, Volume= 0.088 af, Depth> 3.58"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
4,180	39	>75% Grass cover, Good, HSG A
3,055	98	Unconnected roofs, HSG A
5,645	98	Paved parking, HSG A
12,880	79	Weighted Average
4,180		32.45% Pervious Area
8,700		67.55% Impervious Area
3,055		35.11% Unconnected

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Type III 24-hr 25-Year Rainfall=6.16"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 83S: P2I

Runoff = 1.39 cfs @ 12.09 hrs, Volume= 0.095 af, Depth> 3.58"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,861	39	>75% Grass cover, Good, HSG A
1,821	98	Unconnected roofs, HSG A
3,857	74	>75% Grass cover, Good, HSG C
597	98	Paved parking, HSG C
4,711	98	Paved parking, HSG A
13,847	79	Weighted Average
6,718		48.52% Pervious Area
7,129		51.48% Impervious Area
1,821		25.54% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 84S: P2AA

Runoff = 5.42 cfs @ 12.12 hrs, Volume= 0.395 af, Depth> 2.90"
 Routed to Link 60L : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
2,224	98		Unconnected roofs, HSG C
1,231	98		Unconnected pavement, HSG C
37,322	70		Woods, Good, HSG C
27,161	74		>75% Grass cover, Good, HSG C
242	98		Unconnected pavement, HSG A
1,399	39		>75% Grass cover, Good, HSG A
1,546	98		Unconnected roofs, HSG A
71,125	73	72	Weighted Average, UI Adjusted
65,882			92.63% Pervious Area
5,243			7.37% Impervious Area
5,243			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.4	68	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	57	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	26	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	201	Total			

Summary for Subcatchment 85S: (new Subcat)

Runoff = 2.83 cfs @ 12.09 hrs, Volume= 0.196 af, Depth> 3.99"
Routed to Pond 86P : Sub. Inf. 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,553	98	Roofs, HSG C
3,904	98	Unconnected pavement, HSG C
16,193	74	>75% Grass cover, Good, HSG C
25,650	83	Weighted Average
16,193		63.13% Pervious Area
9,457		36.87% Impervious Area
3,904		41.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 86S: P3TT

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 0.093 af, Depth> 3.48"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
956	98	Unconnected roofs, HSG C
672	74	>75% Grass cover, Good, HSG C
4,346	39	>75% Grass cover, Good, HSG A
1,468	98	Unconnected roofs, HSG A
6,484	98	Paved parking, HSG A
13,926	78	Weighted Average
5,018		36.03% Pervious Area
8,908		63.97% Impervious Area
2,424		27.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 87S: P3A

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 5.04"
Routed to Pond 89P : CB 74

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
450	74	>75% Grass cover, Good, HSG C
1,823	98	Paved parking, HSG C
2,273	93	Weighted Average
450		19.80% Pervious Area
1,823		80.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 88S: P3B

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 4.93"
Routed to Pond 90P : CB 75

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,048	74	>75% Grass cover, Good, HSG C
1,562	98	Unconnected roofs, HSG C
1,928	98	Paved parking, HSG C
4,538	92	Weighted Average
1,048		23.09% Pervious Area
3,490		76.91% Impervious Area
1,562		44.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 89S: P3AAA

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 3.99"
Routed to Pond 151P : CB 22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,761	39	>75% Grass cover, Good, HSG A
5,184	98	Paved parking, HSG A
6,945	83	Weighted Average
1,761		25.36% Pervious Area
5,184		74.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 90S: P3BBB

Runoff = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af, Depth> 3.58"
Routed to Pond 152P : CB 23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,961	39	>75% Grass cover, Good, HSG A
2,084	98	Unconnected roofs, HSG A
4,096	98	Paved parking, HSG A
9,141	79	Weighted Average
2,961		32.39% Pervious Area
6,180		67.61% Impervious Area
2,084		33.72% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 91S: P3GGG

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 3.48"
Routed to Pond 165P : CB 19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,041	39	>75% Grass cover, Good, HSG A
3,271	98	Unconnected roofs, HSG A
2,810	98	Paved parking, HSG A
9,122	78	Weighted Average
3,041		33.34% Pervious Area
6,081		66.66% Impervious Area
3,271		53.79% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 92S: P3C

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.057 af, Depth> 4.83"
Routed to Pond 95P : CB 76

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,796	74	>75% Grass cover, Good, HSG C
348	98	Unconnected roofs, HSG C
3,984	98	Paved parking, HSG C
6,128	91	Weighted Average
1,796		29.31% Pervious Area
4,332		70.69% Impervious Area
348		8.03% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 93S: P3D

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 0.082 af, Depth> 4.83"
Routed to Pond 94P : CB 77

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,560	74	>75% Grass cover, Good, HSG C
1,771	98	Unconnected roofs, HSG C
4,562	98	Paved parking, HSG C
8,893	91	Weighted Average
2,560		28.79% Pervious Area
6,333		71.21% Impervious Area
1,771		27.96% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 94S: P3HHH

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 4.09"
Routed to Pond 154P : CB 18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,098	39	>75% Grass cover, Good, HSG A
3,837	98	Unconnected roofs, HSG A
3,091	98	Paved parking, HSG A
9,026	84	Weighted Average
2,098		23.24% Pervious Area
6,928		76.76% Impervious Area
3,837		55.38% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 95S: P2X

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 0.068 af, Depth> 5.47"
Routed to Pond 79P : DMH 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
6,460	98	Paved parking, HSG C
6,460		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 97S: P3G

Runoff = 2.14 cfs @ 12.09 hrs, Volume= 0.157 af, Depth> 4.93"
Routed to Pond 100P : CB 80

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
4,471	74	>75% Grass cover, Good, HSG C
3,720	98	Unconnected roofs, HSG C
8,474	98	Paved parking, HSG C
16,665	92	Weighted Average
4,471		26.83% Pervious Area
12,194		73.17% Impervious Area
3,720		30.51% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 98S: P3H

Runoff = 1.40 cfs @ 12.09 hrs, Volume= 0.101 af, Depth> 4.73"
 Routed to Pond 99P : CB 81

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,581	74	>75% Grass cover, Good, HSG C
2,279	98	Unconnected roofs, HSG C
5,358	98	Paved parking, HSG C
11,218	90	Weighted Average
3,581		31.92% Pervious Area
7,637		68.08% Impervious Area
2,279		29.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: P3J

Runoff = 1.84 cfs @ 12.09 hrs, Volume= 0.132 af, Depth> 4.62"
 Routed to Pond 104P : CB 83

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,342	74	>75% Grass cover, Good, HSG C
2,771	98	Unconnected roofs, HSG C
6,812	98	Paved parking, HSG C
14,925	89	Weighted Average
5,342		35.79% Pervious Area
9,583		64.21% Impervious Area
2,771		28.92% Unconnected

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Type III 24-hr 25-Year Rainfall=6.16"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 103S: P3I

Runoff = 2.83 cfs @ 12.09 hrs, Volume= 0.207 af, Depth> 4.93"
 Routed to Pond 105P : CB 82

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,534	74	>75% Grass cover, Good, HSG C
6,057	98	Unconnected roofs, HSG C
10,372	98	Paved parking, HSG C
21,963	92	Weighted Average
5,534		25.20% Pervious Area
16,429		74.80% Impervious Area
6,057		36.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 107S: P3E

Runoff = 2.13 cfs @ 12.09 hrs, Volume= 0.152 af, Depth> 4.62"
 Routed to Pond 110P : CB 78

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
6,163	74	>75% Grass cover, Good, HSG C
2,724	98	Unconnected roofs, HSG C
8,355	98	Paved parking, HSG C
17,242	89	Weighted Average
6,163		35.74% Pervious Area
11,079		64.26% Impervious Area
2,724		24.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 108S: P3F

Runoff = 2.45 cfs @ 12.09 hrs, Volume= 0.176 af, Depth> 4.62"
Routed to Pond 109P : CB 79

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
7,073	74	>75% Grass cover, Good, HSG C
5,397	98	Unconnected roofs, HSG C
7,421	98	Paved parking, HSG C
19,891	89	Weighted Average
7,073		35.56% Pervious Area
12,818		64.44% Impervious Area
5,397		42.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 109S: P3T

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 5.13"
Routed to Pond 116P : CB 90

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
773	74	>75% Grass cover, Good, HSG C
4,122	98	Paved parking, HSG C
4,895	94	Weighted Average
773		15.79% Pervious Area
4,122		84.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 110S: P3U

Runoff = 1.54 cfs @ 12.09 hrs, Volume= 0.113 af, Depth> 4.93"
Routed to Pond 115P : CB 91

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
2,921	74	>75% Grass cover, Good, HSG C
6,099	98	Unconnected roofs, HSG C
2,977	98	Paved parking, HSG C
11,997	92	Weighted Average
2,921		24.35% Pervious Area
9,076		75.65% Impervious Area
6,099		67.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 111S: P3V

Runoff = 1.62 cfs @ 12.09 hrs, Volume= 0.120 af, Depth> 5.04"
 Routed to Pond 114P : CB 94

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,412	74	>75% Grass cover, Good, HSG C
5,977	98	Unconnected roofs, HSG C
4,046	98	Paved parking, HSG C
12,435	93	Weighted Average
2,412		19.40% Pervious Area
10,023		80.60% Impervious Area
5,977		59.63% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 112S: P3W

Runoff = 1.10 cfs @ 12.09 hrs, Volume= 0.084 af, Depth> 5.32"
 Routed to Pond 113P : CB 95

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
719	74	>75% Grass cover, Good, HSG C
7,508	98	Paved parking, HSG C
8,227	96	Weighted Average
719		8.74% Pervious Area
7,508		91.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 125S: P3EE

Runoff = 1.37 cfs @ 12.10 hrs, Volume= 0.094 af, Depth> 2.10"
Routed to Pond 132P : CB 33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
13,700	39	>75% Grass cover, Good, HSG A
9,600	98	Paved parking, HSG A
23,300	63	Weighted Average
13,700		58.80% Pervious Area
9,600		41.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 126S: P3FF

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 2.81"
Routed to Pond 129P : CB 34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,177	39	>75% Grass cover, Good, HSG A
4,336	98	Unconnected roofs, HSG A
1,799	98	Paved parking, HSG A
11,312	71	Weighted Average
5,177		45.77% Pervious Area
6,135		54.23% Impervious Area
4,336		70.68% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 128S: P3HH

Runoff = 0.51 cfs @ 12.10 hrs, Volume= 0.035 af, Depth> 2.02"
Routed to Pond 131P : CB 35

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Type III 24-hr 25-Year Rainfall=6.16"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
5,501	39	>75% Grass cover, Good, HSG A
2,801	98	Unconnected roofs, HSG A
824	98	Paved parking, HSG A
9,126	62	Weighted Average
5,501		60.28% Pervious Area
3,625		39.72% Impervious Area
2,801		77.27% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 129S: P3MM

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 3.48"
 Routed to Pond 136P : CB 38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,648	39	>75% Grass cover, Good, HSG A
2,583	98	Unconnected roofs, HSG A
2,610	98	Paved parking, HSG A
7,841	78	Weighted Average
2,648		33.77% Pervious Area
5,193		66.23% Impervious Area
2,583		49.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 130S: P3NN

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 0.047 af, Depth> 3.89"
 Routed to Pond 138P : CB 39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
1,726	39	>75% Grass cover, Good, HSG A
1,686	98	Unconnected roofs, HSG A
2,883	98	Paved parking, HSG A
6,295	82	Weighted Average
1,726		27.42% Pervious Area
4,569		72.58% Impervious Area
1,686		36.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 136S: P3II

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 4.30"
 Routed to Pond 137P : CB 44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,148	39	>75% Grass cover, Good, HSG A
4,052	98	Unconnected roofs, HSG A
4,700	98	Paved parking, HSG A
10,900	86	Weighted Average
2,148		19.71% Pervious Area
8,752		80.29% Impervious Area
4,052		46.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 138S: P3JJ

Runoff = 0.09 cfs @ 12.29 hrs, Volume= 0.014 af, Depth> 0.52"
 Routed to Pond 246P : Sub. Inf. 3D

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
989	98		Unconnected roofs, HSG A
13,225	39		>75% Grass cover, Good, HSG A
14,214	43	41	Weighted Average, UI Adjusted
13,225			93.04% Pervious Area
989			6.96% Impervious Area
989			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 140S: P300

Runoff = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af, Depth> 3.48"
Routed to Pond 142P : CB 40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
6,065	39	>75% Grass cover, Good, HSG A
5,813	98	Unconnected roofs, HSG A
5,951	98	Paved parking, HSG A
17,829	78	Weighted Average
6,065		34.02% Pervious Area
11,764		65.98% Impervious Area
5,813		49.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 141S: P3PP

Runoff = 2.46 cfs @ 12.09 hrs, Volume= 0.167 af, Depth> 3.48"
Routed to Pond 143P : CB 41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
8,502	39	>75% Grass cover, Good, HSG A
8,019	98	Unconnected roofs, HSG A
8,610	98	Paved parking, HSG A
25,131	78	Weighted Average
8,502		33.83% Pervious Area
16,629		66.17% Impervious Area
8,019		48.22% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 142S: P3UU

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.025 af, Depth> 3.89"
Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
915	39	>75% Grass cover, Good, HSG A
2,416	98	Paved parking, HSG A
3,331	82	Weighted Average
915		27.47% Pervious Area
2,416		72.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 143S: P3VV

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 3.99"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
906	39	>75% Grass cover, Good, HSG A
2,555	98	Paved parking, HSG A
3,461	83	Weighted Average
906		26.18% Pervious Area
2,555		73.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 147S: P3QQ

Runoff = 1.00 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 4.30"
Routed to Pond 148P : CB 43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
1,691	39	>75% Grass cover, Good, HSG A
2,319	98	Unconnected roofs, HSG A
4,534	98	Paved parking, HSG A
8,544	86	Weighted Average
1,691		19.79% Pervious Area
6,853		80.21% Impervious Area
2,319		33.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 149S: P3RR

Runoff = 0.06 cfs @ 12.20 hrs, Volume= 0.009 af, Depth> 0.58"
 Routed to Pond 240P : Sub. Inf. 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
803	98		Unconnected roofs, HSG A
7,150	39		>75% Grass cover, Good, HSG A
7,953	45	42	Weighted Average, UI Adjusted
7,150			89.90% Pervious Area
803			10.10% Impervious Area
803			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 151S: P3ZZ

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 4.30"
 Routed to Pond 159P : CB 25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,297	39	>75% Grass cover, Good, HSG A
5,062	98	Paved parking, HSG A
6,359	86	Weighted Average
1,297		20.40% Pervious Area
5,062		79.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 152S: P3YY

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 3.78"
Routed to Pond 158P : CB 24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,505	39	>75% Grass cover, Good, HSG A
3,584	98	Paved parking, HSG A
5,089	81	Weighted Average
1,505		29.57% Pervious Area
3,584		70.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 153S: P3WW

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af, Depth> 3.99"
Routed to Pond 155P : CB 27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,428	39	>75% Grass cover, Good, HSG A
2,576	98	Unconnected roofs, HSG A
4,570	98	Paved parking, HSG A
9,574	83	Weighted Average
2,428		25.36% Pervious Area
7,146		74.64% Impervious Area
2,576		36.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 154S: P3XX

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.044 af, Depth> 4.93"
Routed to Pond 156P : CB 26

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Type III 24-hr 25-Year Rainfall=6.16"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
467	39	>75% Grass cover, Good, HSG A
2,369	98	Unconnected roofs, HSG A
1,866	98	Paved parking, HSG A
4,702	92	Weighted Average
467		9.93% Pervious Area
4,235		90.07% Impervious Area
2,369		55.94% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 155S: P3CCC

Runoff = 1.26 cfs @ 12.09 hrs, Volume= 0.085 af, Depth> 3.29"
 Routed to Pond 163P : CB 14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
4,959	39	>75% Grass cover, Good, HSG A
1,047	98	Unconnected roofs, HSG A
7,531	98	Paved parking, HSG A
13,537	76	Weighted Average
4,959		36.63% Pervious Area
8,578		63.37% Impervious Area
1,047		12.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 156S: P3DDD

Runoff = 1.58 cfs @ 12.09 hrs, Volume= 0.107 af, Depth> 3.29"
 Routed to Pond 162P : CB 15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
6,264	39	>75% Grass cover, Good, HSG A
3,815	98	Unconnected roofs, HSG A
6,922	98	Paved parking, HSG A
17,001	76	Weighted Average
6,264		36.84% Pervious Area
10,737		63.16% Impervious Area
3,815		35.53% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 165S: P3FFF

Runoff = 0.44 cfs @ 12.10 hrs, Volume= 0.031 af, Depth> 1.61"
 Routed to Pond 168P : CB 10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
7,041	39	>75% Grass cover, Good, HSG A
3,025	98	Paved parking, HSG A
10,066	57	Weighted Average
7,041		69.95% Pervious Area
3,025		30.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 166S: P3EEE

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 3.48"
 Routed to Pond 167P : CB 11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,114	39	>75% Grass cover, Good, HSG A
3,120	98	Paved parking, HSG A
2,866	98	Unconnected roofs, HSG A
9,100	78	Weighted Average
3,114		34.22% Pervious Area
5,986		65.78% Impervious Area
2,866		47.88% Unconnected

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Type III 24-hr 25-Year Rainfall=6.16"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 170S: P3JJJ

Runoff = 1.55 cfs @ 12.09 hrs, Volume= 0.108 af, Depth> 4.09"
 Routed to Pond 172P : CB 16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,334	39	>75% Grass cover, Good, HSG A
6,476	98	Unconnected roofs, HSG A
3,993	98	Paved parking, HSG A
13,803	84	Weighted Average
3,334		24.15% Pervious Area
10,469		75.85% Impervious Area
6,476		61.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 171S: P3III

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.041 af, Depth> 3.78"
 Routed to Pond 173P : CB 17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,629	39	>75% Grass cover, Good, HSG A
1,823	98	Unconnected roofs, HSG A
2,201	98	Paved parking, HSG A
5,653	81	Weighted Average
1,629		28.82% Pervious Area
4,024		71.18% Impervious Area
1,823		45.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 175S: P3KKK

Runoff = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 3.38"
Routed to Pond 177P : CB 13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
4,945	39	>75% Grass cover, Good, HSG A
3,545	98	Unconnected roofs, HSG A
5,414	98	Paved parking, HSG A
13,904	77	Weighted Average
4,945		35.57% Pervious Area
8,959		64.43% Impervious Area
3,545		39.57% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 176S: P3LLL

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 3.19"
Routed to Pond 178P : CB 12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,605	39	>75% Grass cover, Good, HSG A
958	98	Unconnected roofs, HSG A
3,077	98	Paved parking, HSG A
6,640	75	Weighted Average
2,605		39.23% Pervious Area
4,035		60.77% Impervious Area
958		23.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 182S: P3MMM

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 0.029 af, Depth> 3.00"
Routed to Pond 61P : CB 8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
2,196	39	>75% Grass cover, Good, HSG A
413	98	Unconnected roofs, HSG A
2,502	98	Paved parking, HSG A
5,111	73	Weighted Average
2,196		42.97% Pervious Area
2,915		57.03% Impervious Area
413		14.17% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 183S: P3NNN

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 3.19"
Routed to Pond 170P : CB 9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,796	39	>75% Grass cover, Good, HSG A
2,443	98	Unconnected roofs, HSG A
3,632	98	Paved parking, HSG A
9,871	75	Weighted Average
3,796		38.46% Pervious Area
6,075		61.54% Impervious Area
2,443		40.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 184S: P3000

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af, Depth> 3.00"
Routed to Pond 176P : CB 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,656	39	>75% Grass cover, Good, HSG A
1,177	98	Unconnected roofs, HSG A
3,814	98	Paved parking, HSG A
8,647	73	Weighted Average
3,656		42.28% Pervious Area
4,991		57.72% Impervious Area
1,177		23.58% Unconnected

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Type III 24-hr 25-Year Rainfall=6.16"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 185S: P3PPP

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af, Depth> 3.99"
 Routed to Pond 182P : CB 7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,135	39	>75% Grass cover, Good, HSG A
1,267	98	Unconnected roofs, HSG A
2,170	98	Paved parking, HSG A
4,572	83	Weighted Average
1,135		24.83% Pervious Area
3,437		75.17% Impervious Area
1,267		36.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 186S: P3QQQ

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af, Depth> 2.72"
 Routed to Pond 188P : CB 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,125	39	>75% Grass cover, Good, HSG A
992	30	Woods, Good, HSG A
3,757	98	Paved parking, HSG A
6,874	70	Weighted Average
3,117		45.34% Pervious Area
3,757		54.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 187S: P3RRR

Runoff = 1.27 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 3.68"
 Routed to Pond 189P : CB 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,803	39	>75% Grass cover, Good, HSG A
2,556	98	Unconnected roofs, HSG A
5,935	98	Paved parking, HSG A
12,294	80	Weighted Average
3,803		30.93% Pervious Area
8,491		69.07% Impervious Area
2,556		30.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 189S: (new Subcat)

Runoff = 5.39 cfs @ 12.33 hrs, Volume= 0.592 af, Depth> 1.37"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
56,652	30	Woods, Good, HSG A
56,569	70	Woods, Good, HSG C
2,509	98	Unconnected roofs, HSG C
1,351	98	Unconnected pavement, HSG C
3,066	98	Unconnected roofs, HSG A
1,335	98	Unconnected pavement, HSG A
49,779	74	>75% Grass cover, Good, HSG C
54,766	39	>75% Grass cover, Good, HSG A
226,027	54	Weighted Average
217,766		96.35% Pervious Area
8,261		3.65% Impervious Area
8,261		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.3	272	0.0450	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.8	322	Total			

Summary for Subcatchment 190S: (new Subcat)

Runoff = 1.51 cfs @ 12.09 hrs, Volume= 0.109 af, Depth> 4.73"
Routed to Pond 191P : CB 42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,763	98	Unconnected roofs, HSG A
1,707	39	>75% Grass cover, Good, HSG A
6,608	98	Paved parking, HSG A
12,078	90	Weighted Average
1,707		14.13% Pervious Area
10,371		85.87% Impervious Area
3,763		36.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 191S: P3SSS

Runoff = 0.25 cfs @ 12.11 hrs, Volume= 0.019 af, Depth> 1.30"
Routed to Pond 193P : CB 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
1,068	39	>75% Grass cover, Good, HSG A
4,042	30	Woods, Good, HSG A
2,372	98	Paved parking, HSG A
7,482	53	Weighted Average
5,110		68.30% Pervious Area
2,372		31.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 192S: P3TTT

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 3.99"
Routed to Pond 194P : CB 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Description
1,044	39	>75% Grass cover, Good, HSG A
3,031	98	Paved parking, HSG A
4,075	83	Weighted Average
1,044		25.62% Pervious Area
3,031		74.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 195S: P3UUU

Runoff = 1.71 cfs @ 12.09 hrs, Volume= 0.120 af, Depth> 4.30"
 Routed to Pond 196P : CB 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
2,892	39	>75% Grass cover, Good, HSG A
4,558	98	Unconnected roofs, HSG A
7,174	98	Paved parking, HSG A
14,624	86	Weighted Average
2,892		19.78% Pervious Area
11,732		80.22% Impervious Area
4,558		38.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 198S: P3VVV

Runoff = 0.06 cfs @ 12.33 hrs, Volume= 0.010 af, Depth> 0.41"
 Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
12,434	39	>75% Grass cover, Good, HSG A
12,434		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 202S: P3GG

Runoff = 1.73 cfs @ 12.10 hrs, Volume= 0.117 af, Depth> 2.36"
 Routed to Pond 201P : Sub. Inf. 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
9,091	98	Unconnected roofs, HSG A
2,905	98	Unconnected pavement, HSG A
14,042	39	>75% Grass cover, Good, HSG A
26,038	66	Weighted Average
14,042		53.93% Pervious Area
11,996		46.07% Impervious Area
11,996		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 204S: (new Subcat)

Runoff = 0.24 cfs @ 12.48 hrs, Volume= 0.068 af, Depth> 0.23"
 Routed to Link 203L : 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Adj	Description
76,501	30		Woods, Good, HSG A
76,716	39		>75% Grass cover, Good, HSG A
1,878	98		Unconnected roofs, HSG A
1,671	98		Unconnected pavement, HSG A
156,766	36	35	Weighted Average, UI Adjusted
153,217			97.74% Pervious Area
3,549			2.26% Impervious Area
3,549			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
0.6	85	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	135	Total			

Summary for Subcatchment 205S: (new Subcat)

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 3.38"
Routed to Pond 218P : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
4,257	98	Paved parking, HSG A
1,759	98	Unconnected roofs, HSG A
3,306	39	>75% Grass cover, Good, HSG A
9,322	77	Weighted Average
3,306		35.46% Pervious Area
6,016		64.54% Impervious Area
1,759		29.24% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 206S: (new Subcat)

Runoff = 0.07 cfs @ 12.33 hrs, Volume= 0.012 af, Depth> 0.41"
Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
15,098	39	>75% Grass cover, Good, HSG A
15,098		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 207S: (new Subcat)

Runoff = 0.09 cfs @ 12.48 hrs, Volume= 0.017 af, Depth> 0.41"
Routed to Pond 216P : CB 8A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

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Type III 24-hr 25-Year Rainfall=6.16"

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Area (sf)	CN	Adj	Description
1,937	98		Unconnected roofs, HSG A
1,504	98		Paved parking, HSG A
16,314	30		Woods, Good, HSG A
1,313	39		>75% Grass cover, Good, HSG A
21,068	42	39	Weighted Average, UI Adjusted
17,627			83.67% Pervious Area
3,441			16.33% Impervious Area
1,937			56.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	50	0.0250	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.2	106	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.7	156	Total			

Summary for Subcatchment 216S: (new Subcat)

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 4.20"
Routed to Pond 215P : CB 5A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
3,069	98	Paved parking, HSG A
1,946	98	Unconnected roofs, HSG A
1,471	39	>75% Grass cover, Good, HSG A
6,486	85	Weighted Average
1,471		22.68% Pervious Area
5,015		77.32% Impervious Area
1,946		38.80% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 240S: P3EE2

Runoff = 0.96 cfs @ 12.00 hrs, Volume= 0.063 af, Depth> 5.48"
Routed to Pond 249P : SUB.INF 3E

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
6,060	98	Roofs, HSG A
6,060		100.00% Impervious Area

Summary for Subcatchment 249S: P3EE1

Runoff = 2.18 cfs @ 12.00 hrs, Volume= 0.137 af, Depth> 4.94"
Routed to Pond 248P : SUB.INF 3F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
7,986	98	Roofs, HSG A
4,978	98	Paved parking, HSG A
1,525	39	>75% Grass cover, Good, HSG A
14,489	92	Weighted Average
1,525		10.53% Pervious Area
12,964		89.47% Impervious Area

Summary for Subcatchment EA1: Emerg, Access Culvrt

Runoff = 1.45 cfs @ 12.01 hrs, Volume= 0.084 af, Depth> 2.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-Year Rainfall=6.16"

Area (sf)	CN	Description
7,168	39	>75% Grass cover, Good, HSG A
8,378	98	Paved parking, HSG A
15,546	71	Weighted Average
7,168		46.11% Pervious Area
8,378		53.89% Impervious Area

Summary for Reach 204R: WATER QUALTY SWALW

Inflow Area = 0.705 ac, 57.45% Impervious, Inflow Depth > 2.93" for 25-Year event
Inflow = 2.49 cfs @ 12.09 hrs, Volume= 0.172 af
Outflow = 2.08 cfs @ 12.23 hrs, Volume= 0.171 af, Atten= 16%, Lag= 8.3 min
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.39 fps, Min. Travel Time= 5.0 min
Avg. Velocity= 0.14 fps, Avg. Travel Time= 14.2 min

Peak Storage= 637 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.85' , Surface Width= 9.08'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 59.02 cfs

4.00' x 4.00' deep channel, n= 0.080 Earth, long dense weeds
 Side Slope Z-value= 3.0 '/' Top Width= 28.00'
 Length= 115.0' Slope= 0.0009 '/'
 Inlet Invert= 45.80', Outlet Invert= 45.70'



Summary for Pond 15P: Det. Basin 5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 3.97" for 25-Year event
 Inflow = 10.56 cfs @ 12.10 hrs, Volume= 0.661 af
 Outflow = 1.08 cfs @ 12.88 hrs, Volume= 0.451 af, Atten= 90%, Lag= 46.7 min
 Primary = 1.08 cfs @ 12.88 hrs, Volume= 0.451 af
 Routed to Pond 212P : level spreader DB5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.64' @ 12.88 hrs Surf.Area= 7,772 sf Storage= 16,959 cf

Plug-Flow detention time= 182.7 min calculated for 0.451 af (68% of inflow)
 Center-of-Mass det. time= 122.8 min (903.5 - 780.7)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	28,519 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,169	0	0
53.00	6,098	5,634	5,634
54.00	7,097	6,598	12,231
55.00	8,158	7,628	19,859
56.00	9,163	8,661	28,519

Device	Routing	Invert	Outlet Devices
#1	Primary	51.70'	18.0" Round Culvert L= 53.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 51.70' / 51.50' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	1.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.35'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 1	54.70'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.08 cfs @ 12.88 hrs HW=54.64' (Free Discharge)

- 1=Culvert (Passes 1.08 cfs of 11.54 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 7.71 fps)
- 3=Orifice/Grate (Orifice Controls 0.96 cfs @ 4.90 fps)
- 4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond 16P: CB 58

Inflow Area = 0.172 ac, 96.61% Impervious, Inflow Depth > 5.40" for 25-Year event
 Inflow = 1.01 cfs @ 12.09 hrs, Volume= 0.078 af
 Outflow = 1.01 cfs @ 12.09 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.01 cfs @ 12.09 hrs, Volume= 0.078 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.98 cfs @ 12.09 hrs HW=62.73' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.98 cfs @ 2.69 fps)

Summary for Pond 17P: CB 59

Inflow Area = 0.381 ac, 74.19% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 2.13 cfs @ 12.09 hrs, Volume= 0.157 af
 Outflow = 2.13 cfs @ 12.09 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.13 cfs @ 12.09 hrs, Volume= 0.157 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.08 cfs @ 12.09 hrs HW=63.13' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.08 cfs @ 3.19 fps)

Summary for Pond 18P: CB 63

Inflow Area = 0.140 ac, 64.30% Impervious, Inflow Depth > 4.62" for 25-Year event
 Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af
 Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.054 af
 Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0077 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=64.41' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.73 cfs @ 2.50 fps)

Summary for Pond 19P: CB 62

Inflow Area = 0.064 ac, 81.50% Impervious, Inflow Depth > 5.13" for 25-Year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.027 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.027 af
Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.24' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=64.23' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.35 cfs @ 2.15 fps)

Summary for Pond 20P: DMH 43

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 5.08" for 25-Year event
Inflow = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af
Outflow = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min
Primary = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af
Routed to Pond 21P : DMH 42

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.90'	12.0" Round Culvert L= 66.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.90' / 61.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.06 cfs @ 12.09 hrs HW=63.51' (Free Discharge)

↑**1=Culvert** (Barrel Controls 3.06 cfs @ 3.90 fps)

Summary for Pond 21P: DMH 42

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 5.08" for 25-Year event
 Inflow = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af
 Outflow = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.14 cfs @ 12.09 hrs, Volume= 0.234 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.13' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	12.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.47' / 61.10' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.06 cfs @ 12.09 hrs HW=63.07' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.06 cfs @ 3.90 fps)

Summary for Pond 22P: CB 56

Inflow Area = 0.127 ac, 100.00% Impervious, Inflow Depth > 5.47" for 25-Year event
 Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.058 af
 Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.058 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.73' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=61.72' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.73 cfs @ 2.54 fps)

Summary for Pond 23P: CB 57

Inflow Area = 0.315 ac, 81.38% Impervious, Inflow Depth > 5.13" for 25-Year event
 Inflow = 1.80 cfs @ 12.09 hrs, Volume= 0.135 af
 Outflow = 1.80 cfs @ 12.09 hrs, Volume= 0.135 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.80 cfs @ 12.09 hrs, Volume= 0.135 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Type III 24-hr 25-Year Rainfall=6.16"

Prepared by Millennium Engineering, Inc

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Peak Elev= 62.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.76 cfs @ 12.09 hrs HW=62.10' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.76 cfs @ 3.12 fps)**Summary for Pond 24P: DMH 41**

Inflow Area = 0.994 ac, 83.63% Impervious, Inflow Depth > 5.15" for 25-Year event
Inflow = 5.69 cfs @ 12.09 hrs, Volume= 0.427 af
Outflow = 5.69 cfs @ 12.09 hrs, Volume= 0.427 af, Atten= 0%, Lag= 0.0 min
Primary = 5.69 cfs @ 12.09 hrs, Volume= 0.427 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	18.0" Round Culvert L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 59.23' S= 0.0322 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.55 cfs @ 12.09 hrs HW=62.42' (Free Discharge)↑**1=Culvert** (Inlet Controls 5.55 cfs @ 3.21 fps)**Summary for Pond 25P: DMH 45**

Inflow Area = 0.203 ac, 69.67% Impervious, Inflow Depth > 4.78" for 25-Year event
Inflow = 1.11 cfs @ 12.09 hrs, Volume= 0.081 af
Outflow = 1.11 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 1.11 cfs @ 12.09 hrs, Volume= 0.081 af
Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.31' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.68'	12.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.68' / 62.20' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.09 cfs @ 12.09 hrs HW=64.30' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.09 cfs @ 2.12 fps)

Summary for Pond 26P: CB 61

Inflow Area = 0.265 ac, 66.20% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 1.44 cfs @ 12.09 hrs, Volume= 0.104 af
 Outflow = 1.44 cfs @ 12.09 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.44 cfs @ 12.09 hrs, Volume= 0.104 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.11' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.41 cfs @ 12.09 hrs HW=63.09' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.41 cfs @ 2.88 fps)

Summary for Pond 27P: CB 60

Inflow Area = 0.111 ac, 71.39% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 0.045 af
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 0.045 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=62.77' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.60 cfs @ 2.39 fps)

Summary for Pond 28P: DMH 44

Inflow Area = 0.579 ac, 68.41% Impervious, Inflow Depth > 4.77" for 25-Year event
 Inflow = 3.17 cfs @ 12.09 hrs, Volume= 0.230 af
 Outflow = 3.17 cfs @ 12.09 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.17 cfs @ 12.09 hrs, Volume= 0.230 af
 Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

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Peak Elev= 63.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 85.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 59.23' S= 0.0338 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.09 cfs @ 12.09 hrs HW=63.67' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.09 cfs @ 3.94 fps)**Summary for Pond 29P: DMH 40**

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 5.01" for 25-Year event
Inflow = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af
Outflow = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af, Atten= 0%, Lag= 0.0 min
Primary = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af
Routed to Pond 38P : DMH 39

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.13'	24.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.13' / 58.83' S= 0.0120 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=9.09 cfs @ 12.09 hrs HW=60.74' (Free Discharge)↑**1=Culvert** (Barrel Controls 9.09 cfs @ 4.57 fps)**Summary for Pond 30P: CB 55**

Inflow Area = 0.083 ac, 78.43% Impervious, Inflow Depth > 5.04" for 25-Year event
Inflow = 0.47 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.47 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.47 cfs @ 12.09 hrs, Volume= 0.035 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.23'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.23' / 59.23' S= 0.0667 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.09 hrs HW=60.61' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.46 cfs @ 1.66 fps)

Summary for Pond 31P: CB 51

Inflow Area = 0.044 ac, 96.85% Impervious, Inflow Depth > 5.40" for 25-Year event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.60' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=60.59' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.25 cfs @ 2.00 fps)

Summary for Pond 32P: CB 52

Inflow Area = 0.225 ac, 78.85% Impervious, Inflow Depth > 5.04" for 25-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.095 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.095 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.24 cfs @ 12.09 hrs HW=61.03' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.24 cfs @ 2.84 fps)

Summary for Pond 33P: CB 53

Inflow Area = 0.044 ac, 100.00% Impervious, Inflow Depth > 5.47" for 25-Year event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af
 Outflow = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.26 cfs @ 12.09 hrs, Volume= 0.020 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.76'	12.0" Round Culvert L= 9.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.76' / 59.76' S= 0.1111 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=61.04' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.25 cfs @ 1.42 fps)

Summary for Pond 34P: DMH 36

Inflow Area = 0.270 ac, 81.82% Impervious, Inflow Depth > 5.10" for 25-Year event
Inflow = 1.54 cfs @ 12.09 hrs, Volume= 0.115 af
Outflow = 1.54 cfs @ 12.09 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min
Primary = 1.54 cfs @ 12.09 hrs, Volume= 0.115 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 67.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.76' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 12.09 hrs HW=60.90' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.50 cfs @ 3.05 fps)

Summary for Pond 35P: DMH 37

Inflow Area = 0.244 ac, 95.52% Impervious, Inflow Depth > 5.42" for 25-Year event
Inflow = 1.43 cfs @ 12.09 hrs, Volume= 0.110 af
Outflow = 1.43 cfs @ 12.09 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
Primary = 1.43 cfs @ 12.09 hrs, Volume= 0.110 af
Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.66'	12.0" Round Culvert L= 52.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.66' / 59.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.40 cfs @ 12.09 hrs HW=60.43' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.40 cfs @ 2.95 fps)

Summary for Pond 36P: CB 54

Inflow Area = 0.200 ac, 94.53% Impervious, Inflow Depth > 5.40" for 25-Year event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 0.090 af
 Outflow = 1.17 cfs @ 12.09 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.17 cfs @ 12.09 hrs, Volume= 0.090 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.20'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.20' / 59.40' S= 0.1143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=60.84' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.14 cfs @ 2.15 fps)

Summary for Pond 38P: DMH 39

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 5.01" for 25-Year event
 Inflow = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af
 Outflow = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af, Atten= 0%, Lag= 0.0 min
 Primary = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af
 Routed to Pond 223P : Sub. Inf. 4B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.73'	24.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.73' / 58.60' S= 0.0260 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=9.09 cfs @ 12.09 hrs HW=60.44' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 9.09 cfs @ 4.28 fps)

Summary for Pond 41P: CB 49

Inflow Area = 0.022 ac, 100.00% Impervious, Inflow Depth > 5.47" for 25-Year event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Outflow = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=58.70' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.13 cfs @ 1.19 fps)

Summary for Pond 42P: CB 50

Inflow Area = 0.182 ac, 66.96% Impervious, Inflow Depth > 4.73" for 25-Year event
Inflow = 0.99 cfs @ 12.09 hrs, Volume= 0.072 af
Outflow = 0.99 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 0.99 cfs @ 12.09 hrs, Volume= 0.072 af
Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.97 cfs @ 12.09 hrs HW=59.11' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.97 cfs @ 2.74 fps)

Summary for Pond 43P: DMH 35

Inflow Area = 0.719 ac, 83.27% Impervious, Inflow Depth > 2.59" for 25-Year event
Inflow = 1.48 cfs @ 12.33 hrs, Volume= 0.155 af
Outflow = 1.48 cfs @ 12.33 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min
Primary = 1.48 cfs @ 12.33 hrs, Volume= 0.155 af
Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.05' @ 12.33 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.30' / 54.70' S= 0.0414 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.46 cfs @ 12.33 hrs HW=59.05' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.46 cfs @ 2.32 fps)

Summary for Pond 46P: CB 48

Inflow Area = 0.352 ac, 70.58% Impervious, Inflow Depth > 3.99" for 25-Year event
 Inflow = 1.69 cfs @ 12.09 hrs, Volume= 0.117 af
 Outflow = 1.69 cfs @ 12.09 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.69 cfs @ 12.09 hrs, Volume= 0.117 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.65 cfs @ 12.09 hrs HW=55.67' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.65 cfs @ 3.06 fps)

Summary for Pond 47P: CB 47

Inflow Area = 0.120 ac, 97.54% Impervious, Inflow Depth > 5.40" for 25-Year event
 Inflow = 0.71 cfs @ 12.09 hrs, Volume= 0.054 af
 Outflow = 0.71 cfs @ 12.09 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.71 cfs @ 12.09 hrs, Volume= 0.054 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=55.31' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.69 cfs @ 2.50 fps)

Summary for Pond 48P: DMH 33

Inflow Area = 0.472 ac, 77.45% Impervious, Inflow Depth > 4.35" for 25-Year event
 Inflow = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af
 Outflow = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.40 cfs @ 12.09 hrs, Volume= 0.171 af
 Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.34 cfs @ 12.09 hrs HW=55.71' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.34 cfs @ 2.98 fps)**Summary for Pond 49P: Sub. Inf. 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 3.70" for 25-Year event
Inflow = 6.52 cfs @ 12.09 hrs, Volume= 0.541 af
Outflow = 4.71 cfs @ 12.17 hrs, Volume= 0.423 af, Atten= 28%, Lag= 5.2 min
Discarded = 0.12 cfs @ 12.17 hrs, Volume= 0.110 af
Primary = 4.59 cfs @ 12.17 hrs, Volume= 0.314 af
Routed to Pond 211P : level spreader 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 57.57' @ 12.17 hrs Surf.Area= 3,024 sf Storage= 7,248 cf

Plug-Flow detention time= 93.7 min calculated for 0.422 af (78% of inflow)
Center-of-Mass det. time= 39.4 min (806.8 - 767.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	934 cf	42.00'W x 72.00'L x 4.17'H Field A 12,610 cf Overall - 10,276 cf Embedded = 2,334 cf x 40.0% Voids
#2A	55.00'	7,500 cf	Shea Leaching Chamber 8x14x3.7 x 25 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 25 Chambers in 5 Rows
8,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	54.50'	18.0" Round Culvert L= 76.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.50' / 51.50' S= 0.0395 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#3	Device 2	56.70'	6.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#4	Device 2	57.15'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.12 cfs @ 12.17 hrs HW=57.55' (Free Discharge)

↑**1=Exfiltration** (Controls 0.12 cfs)

Primary OutFlow Max=4.37 cfs @ 12.17 hrs HW=57.55' (Free Discharge)

↑**2=Culvert** (Passes 4.37 cfs of 10.18 cfs potential flow)

↑**3=Orifice/Grate** (Orifice Controls 1.46 cfs @ 3.72 fps)

↑**4=Broad-Crested Rectangular Weir** (Weir Controls 2.91 cfs @ 1.84 fps)

Summary for Pond 52P: CB 20

Inflow Area = 0.321 ac, 29.26% Impervious, Inflow Depth > 1.53" for 25-Year event
 Inflow = 0.57 cfs @ 12.10 hrs, Volume= 0.041 af
 Outflow = 0.57 cfs @ 12.10 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.57 cfs @ 12.10 hrs, Volume= 0.041 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.53' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.10 hrs HW=51.53' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.57 cfs @ 2.59 fps)

Summary for Pond 53P: CB 21

Inflow Area = 0.525 ac, 65.45% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 2.24 cfs @ 12.09 hrs, Volume= 0.152 af
 Outflow = 2.24 cfs @ 12.09 hrs, Volume= 0.152 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.24 cfs @ 12.09 hrs, Volume= 0.152 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.20 cfs @ 12.09 hrs HW=52.14' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.20 cfs @ 2.79 fps)

Summary for Pond 54P: DMH 15

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 2.87" for 25-Year event
 Inflow = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af
 Outflow = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af
 Routed to Pond 55P : DMH 16

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.80'	12.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.80' / 50.28' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.64 cfs @ 12.09 hrs HW=53.00' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.64 cfs @ 4.63 fps)

Summary for Pond 55P: DMH 16

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 2.87" for 25-Year event
 Inflow = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af
 Outflow = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.70 cfs @ 12.09 hrs, Volume= 0.254 af
 Routed to Pond 56P : Inf. Basin 3G

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.18'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.18' / 50.00' S= 0.0051 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.64 cfs @ 12.09 hrs HW=52.17' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 3.64 cfs @ 4.63 fps)

Summary for Pond 56P: Inf. Basin 3G

Inflow Area = 1.599 ac, 37.88% Impervious, Inflow Depth > 2.04" for 25-Year event
 Inflow = 3.70 cfs @ 12.09 hrs, Volume= 0.272 af
 Outflow = 0.75 cfs @ 12.58 hrs, Volume= 0.272 af, Atten= 80%, Lag= 28.9 min
 Discarded = 0.75 cfs @ 12.58 hrs, Volume= 0.272 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 51.89' @ 12.58 hrs Surf.Area= 2,904 sf Storage= 3,929 cf

Plug-Flow detention time= 52.8 min calculated for 0.272 af (100% of inflow)

Center-of-Mass det. time= 52.2 min (850.1 - 797.9)

Volume	Invert	Avail.Storage	Storage Description
#1	50.00'	11,770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	985	0	0
51.00	2,275	1,630	1,630
52.00	2,983	2,629	4,259
53.00	3,742	3,363	7,622
54.00	4,554	4,148	11,770

Device	Routing	Invert	Outlet Devices
#1	Discarded	50.00'	7.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 48.00'
#2	Secondary	53.50'	6.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Discarded OutFlow Max=0.75 cfs @ 12.58 hrs HW=51.89' (Free Discharge)↑**1=Exfiltration** (Controls 0.75 cfs)**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=50.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 60P: SUB. INF 8**

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 4.62" for 25-Year event
 Inflow = 4.58 cfs @ 12.09 hrs, Volume= 0.328 af
 Outflow = 4.58 cfs @ 12.10 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.6 min
 Discarded = 0.03 cfs @ 6.65 hrs, Volume= 0.033 af
 Primary = 4.55 cfs @ 12.10 hrs, Volume= 0.249 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.12' @ 12.10 hrs Surf.Area= 1,170 sf Storage= 2,304 cf

Plug-Flow detention time= 68.6 min calculated for 0.281 af (86% of inflow)

Center-of-Mass det. time= 25.5 min (783.6 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.00'	1,076 cf	25.25'W x 46.34'L x 3.50'H Field A 4,095 cf Overall - 1,405 cf Embedded = 2,690 cf x 40.0% Voids
#2A	60.50'	1,405 cf	ADS_StormTech SC-740 b +Cap x 30 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

30 Chambers in 5 Rows

Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf

2,481 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	60.00'	12.0" Round Culvert X 2.00 L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.50' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	62.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 6.65 hrs HW=60.04' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)**Primary OutFlow** Max=4.53 cfs @ 12.10 hrs HW=63.12' (Free Discharge)↑**2=Culvert** (Passes 4.53 cfs of 9.67 cfs potential flow)↑**3=Broad-Crested Rectangular Weir** (Weir Controls 4.53 cfs @ 2.18 fps)**Summary for Pond 61P: CB 8**

Inflow Area = 0.117 ac, 57.03% Impervious, Inflow Depth > 3.00" for 25-Year event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.029 af
 Outflow = 0.43 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.029 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=50.77' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.43 cfs @ 1.63 fps)**Summary for Pond 62P: CB 66**

Inflow Area = 0.149 ac, 73.97% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 0.061 af
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 0.061 af
 Routed to Pond 64P : DMH 47

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.50'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.50' / 60.30' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.81 cfs @ 12.09 hrs HW=61.03' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.81 cfs @ 2.82 fps)**Summary for Pond 63P: CB 67**

Inflow Area = 0.034 ac, 87.02% Impervious, Inflow Depth > 5.23" for 25-Year event
Inflow = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af
Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.60'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.60' / 60.30' S= 0.0214 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=60.84' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.19 cfs @ 1.31 fps)**Summary for Pond 64P: DMH 47**

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 4.81" for 25-Year event
Inflow = 3.35 cfs @ 12.09 hrs, Volume= 0.244 af
Outflow = 3.35 cfs @ 12.09 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min
Primary = 3.35 cfs @ 12.09 hrs, Volume= 0.244 af
Routed to Pond 68P : Sub. Inf. 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.90' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.27 cfs @ 12.09 hrs HW=61.80' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.27 cfs @ 4.16 fps)

Summary for Pond 65P: DMH 49

Inflow Area = 0.253 ac, 88.87% Impervious, Inflow Depth > 5.26" for 25-Year event
 Inflow = 1.46 cfs @ 12.09 hrs, Volume= 0.111 af
 Outflow = 1.46 cfs @ 12.09 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.46 cfs @ 12.09 hrs, Volume= 0.111 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.70'	12.0" Round Culvert L= 59.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.70' / 58.00' S= 0.0119 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=59.43' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.43 cfs @ 2.30 fps)

Summary for Pond 66P: CB 68

Inflow Area = 0.163 ac, 82.69% Impervious, Inflow Depth > 5.13" for 25-Year event
 Inflow = 0.93 cfs @ 12.09 hrs, Volume= 0.070 af
 Outflow = 0.93 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.93 cfs @ 12.09 hrs, Volume= 0.070 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.91 cfs @ 12.09 hrs HW=59.50' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.91 cfs @ 2.64 fps)

Summary for Pond 67P: CB 69

Inflow Area = 0.090 ac, 100.00% Impervious, Inflow Depth > 5.47" for 25-Year event
 Inflow = 0.53 cfs @ 12.09 hrs, Volume= 0.041 af
 Outflow = 0.53 cfs @ 12.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.041 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=59.33' (Free Discharge)

↑1=Culvert (Barrel Controls 0.52 cfs @ 2.35 fps)

Summary for Pond 68P: Sub. Inf. 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 4.81" for 25-Year event
Inflow = 3.35 cfs @ 12.09 hrs, Volume= 0.244 af
Outflow = 3.31 cfs @ 12.09 hrs, Volume= 0.204 af, Atten= 1%, Lag= 0.0 min
Discarded = 0.05 cfs @ 12.09 hrs, Volume= 0.046 af
Primary = 3.26 cfs @ 12.09 hrs, Volume= 0.158 af
Routed to Pond 209P : level spreader 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 62.14' @ 12.09 hrs Surf.Area= 1,065 sf Storage= 1,991 cf

Plug-Flow detention time= 77.1 min calculated for 0.204 af (84% of inflow)
Center-of-Mass det. time= 30.0 min (783.3 - 753.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	606 cf	35.50'W x 30.00'L x 3.67'H Field A 3,909 cf Overall - 2,392 cf Embedded = 1,516 cf x 40.0% Voids
#2A	59.50'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 4 Rows
2,206 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 56.00'
#2	Primary	59.30'	15.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.30' / 57.00' S= 0.0324 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	61.20'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

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Discarded OutFlow Max=0.05 cfs @ 12.09 hrs HW=62.13' (Free Discharge)↑**1=Exfiltration** (Controls 0.05 cfs)**Primary OutFlow** Max=3.19 cfs @ 12.09 hrs HW=62.13' (Free Discharge)↑**2=Culvert** (Passes 3.19 cfs of 6.92 cfs potential flow)↑**3=Orifice/Grate** (Orifice Controls 3.19 cfs @ 3.28 fps)**Summary for Pond 69P: CB 72**

Inflow Area = 0.245 ac, 72.86% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 1.36 cfs @ 12.09 hrs, Volume= 0.099 af
 Outflow = 1.36 cfs @ 12.09 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.36 cfs @ 12.09 hrs, Volume= 0.099 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=62.20' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.32 cfs @ 2.25 fps)**Summary for Pond 70P: CB 73**

Inflow Area = 0.154 ac, 76.98% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 0.86 cfs @ 12.09 hrs, Volume= 0.063 af
 Outflow = 0.86 cfs @ 12.09 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.86 cfs @ 12.09 hrs, Volume= 0.063 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=62.03' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.84 cfs @ 1.96 fps)

Summary for Pond 71P: DMH 54

Inflow Area = 0.399 ac, 74.45% Impervious, Inflow Depth > 4.87" for 25-Year event
 Inflow = 2.22 cfs @ 12.09 hrs, Volume= 0.162 af
 Outflow = 2.22 cfs @ 12.09 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.22 cfs @ 12.09 hrs, Volume= 0.162 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.70' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.17 cfs @ 12.09 hrs HW=61.83' (Free Discharge)
 ↑ **1=Culvert** (Inlet Controls 2.17 cfs @ 2.76 fps)

Summary for Pond 72P: Sub. Inf. 7

Inflow Area = 1.384 ac, 72.05% Impervious, Inflow Depth > 4.85" for 25-Year event
 Inflow = 7.67 cfs @ 12.09 hrs, Volume= 0.560 af
 Outflow = 7.65 cfs @ 12.10 hrs, Volume= 0.476 af, Atten= 0%, Lag= 0.8 min
 Discarded = 0.12 cfs @ 12.10 hrs, Volume= 0.105 af
 Primary = 7.54 cfs @ 12.10 hrs, Volume= 0.371 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.80' @ 12.10 hrs Surf.Area= 1,936 sf Storage= 3,919 cf

Plug-Flow detention time= 70.2 min calculated for 0.476 af (85% of inflow)
 Center-of-Mass det. time= 25.7 min (778.0 - 752.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.30'	1,048 cf	44.00'W x 44.00'L x 3.67'H Field A 7,105 cf Overall - 4,486 cf Embedded = 2,620 cf x 40.0% Voids
#2A	60.80'	3,000 cf	Shea Leaching Chamber 8x14x2.7 x 15 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 15 Chambers in 5 Rows
		4,048 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.30'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 58.10'
#2	Primary	58.00'	18.0" Round Culvert L= 32.0' CPP, projecting, no headwall, Ke= 0.900

#3 Device 2 63.10' Inlet / Outlet Invert= 58.00' / 52.50' S= 0.1719 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.12 cfs @ 12.10 hrs HW=63.80' (Free Discharge)

↑**1=Exfiltration** (Controls 0.12 cfs)

Primary OutFlow Max=7.51 cfs @ 12.10 hrs HW=63.80' (Free Discharge)

↑**2=Culvert** (Passes 7.51 cfs of 15.10 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 7.51 cfs @ 2.68 fps)

Summary for Pond 73P: CB 64

Inflow Area = 0.252 ac, 65.83% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 1.37 cfs @ 12.09 hrs, Volume= 0.099 af
 Outflow = 1.37 cfs @ 12.09 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.37 cfs @ 12.09 hrs, Volume= 0.099 af
 Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.34 cfs @ 12.09 hrs HW=61.83' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.34 cfs @ 3.06 fps)

Summary for Pond 74P: CB 65

Inflow Area = 0.174 ac, 65.05% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 0.95 cfs @ 12.09 hrs, Volume= 0.068 af
 Outflow = 0.95 cfs @ 12.09 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.95 cfs @ 12.09 hrs, Volume= 0.068 af
 Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=61.66' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.92 cfs @ 2.02 fps)

Summary for Pond 75P: DMH 46

Inflow Area = 0.426 ac, 65.51% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 2.32 cfs @ 12.09 hrs, Volume= 0.168 af
 Outflow = 2.32 cfs @ 12.09 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.32 cfs @ 12.09 hrs, Volume= 0.168 af
 Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 118.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.20' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.26 cfs @ 12.09 hrs HW=61.87' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.26 cfs @ 2.88 fps)

Summary for Pond 76P: CB 70

Inflow Area = 0.189 ac, 71.07% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 1.04 cfs @ 12.09 hrs, Volume= 0.076 af
 Outflow = 1.04 cfs @ 12.09 hrs, Volume= 0.076 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.04 cfs @ 12.09 hrs, Volume= 0.076 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.81' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.02 cfs @ 12.09 hrs HW=58.80' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.02 cfs @ 2.95 fps)

Summary for Pond 77P: CB 71

Inflow Area = 0.098 ac, 95.31% Impervious, Inflow Depth > 5.23" for 25-Year event
 Inflow = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.57 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=58.62' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.55 cfs @ 1.75 fps)

Summary for Pond 78P: DMH 50

Inflow Area = 0.540 ac, 83.81% Impervious, Inflow Depth > 5.10" for 25-Year event
 Inflow = 3.08 cfs @ 12.09 hrs, Volume= 0.230 af
 Outflow = 3.08 cfs @ 12.09 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.08 cfs @ 12.09 hrs, Volume= 0.230 af
 Routed to Pond 79P : DMH 51

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.90'	18.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.90' / 57.70' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.99 cfs @ 12.09 hrs HW=58.88' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.99 cfs @ 3.48 fps)

Summary for Pond 79P: DMH 51

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 5.18" for 25-Year event
 Inflow = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af
 Outflow = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af
 Routed to Pond 80P : DMH 52

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.60'	18.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.60' / 56.91' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.84 cfs @ 12.09 hrs HW=58.72' (Free Discharge)

↑**1=Culvert** (Barrel Controls 3.84 cfs @ 3.78 fps)

Summary for Pond 80P: DMH 52

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 5.18" for 25-Year event
 Inflow = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af
 Outflow = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af
 Routed to Pond 241P : Sub. Inf. 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.94' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.81'	18.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.81' / 56.27' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.84 cfs @ 12.09 hrs HW=57.92' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.84 cfs @ 3.80 fps)

Summary for Pond 83P: CB 86

Inflow Area = 0.178 ac, 72.79% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=58.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.96 cfs @ 2.04 fps)

Summary for Pond 84P: CB 87

Inflow Area = 0.189 ac, 78.29% Impervious, Inflow Depth > 5.04" for 25-Year event
 Inflow = 1.07 cfs @ 12.09 hrs, Volume= 0.080 af
 Outflow = 1.07 cfs @ 12.09 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.07 cfs @ 12.09 hrs, Volume= 0.080 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

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Peak Elev= 58.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.05 cfs @ 12.09 hrs HW=58.61' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.05 cfs @ 2.09 fps)**Summary for Pond 85P: DMH 65**

Inflow Area = 0.367 ac, 75.63% Impervious, Inflow Depth > 4.94" for 25-Year event
Inflow = 2.06 cfs @ 12.09 hrs, Volume= 0.151 af
Outflow = 2.06 cfs @ 12.09 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min
Primary = 2.06 cfs @ 12.09 hrs, Volume= 0.151 af
Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.65' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.65'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.65' / 57.55' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.00 cfs @ 12.09 hrs HW=58.63' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.00 cfs @ 3.22 fps)**Summary for Pond 86P: Sub. Inf. 6**

Inflow Area = 0.745 ac, 45.50% Impervious, Inflow Depth > 4.19" for 25-Year event
Inflow = 3.71 cfs @ 12.09 hrs, Volume= 0.260 af
Outflow = 3.71 cfs @ 12.10 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.7 min
Discarded = 0.05 cfs @ 12.10 hrs, Volume= 0.042 af
Primary = 3.66 cfs @ 12.10 hrs, Volume= 0.188 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.19' @ 12.10 hrs Surf.Area= 804 sf Storage= 1,590 cf

Plug-Flow detention time= 57.9 min calculated for 0.229 af (88% of inflow)

Center-of-Mass det. time= 21.1 min (788.3 - 767.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	61.00'	750 cf	20.50'W x 39.22'L x 3.50'H Field A 2,814 cf Overall - 940 cf Embedded = 1,874 cf x 40.0% Voids
#2A	61.50'	940 cf	ADS_StormTech SC-740 b +Cap x 20 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 20 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		1,690 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	61.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 59.00'
#2	Primary	61.00'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 57.00' S= 0.0381 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	63.50'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.05 cfs @ 12.10 hrs HW=64.19' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.05 cfs)

Primary OutFlow Max=3.65 cfs @ 12.10 hrs HW=64.19' (Free Discharge)

↑ **2=Culvert** (Passes 3.65 cfs of 4.90 cfs potential flow)

↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 3.65 cfs @ 2.64 fps)

Summary for Pond 89P: CB 74

Inflow Area = 0.052 ac, 80.20% Impervious, Inflow Depth > 5.04" for 25-Year event
 Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.022 af
 Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.022 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=64.81' (Free Discharge)

↑ **1=Culvert** (Barrel Controls 0.29 cfs @ 2.05 fps)

Summary for Pond 90P: CB 75

Inflow Area = 0.104 ac, 76.91% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 0.043 af
 Outflow = 0.58 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 12.09 hrs, Volume= 0.043 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.09 hrs HW=64.96' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.57 cfs @ 2.38 fps)

Summary for Pond 91P: DMH 55

Inflow Area = 0.156 ac, 78.01% Impervious, Inflow Depth > 4.97" for 25-Year event
 Inflow = 0.88 cfs @ 12.09 hrs, Volume= 0.065 af
 Outflow = 0.88 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.88 cfs @ 12.09 hrs, Volume= 0.065 af
 Routed to Pond 86P : Sub. Inf. 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.30'	12.0" Round Culvert L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.30' / 62.10' S= 0.0204 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 12.09 hrs HW=64.84' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.86 cfs @ 1.98 fps)

Summary for Pond 94P: CB 77

Inflow Area = 0.204 ac, 71.21% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 1.13 cfs @ 12.09 hrs, Volume= 0.082 af
 Outflow = 1.13 cfs @ 12.09 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.13 cfs @ 12.09 hrs, Volume= 0.082 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.33' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.10 cfs @ 12.09 hrs HW=63.32' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.10 cfs @ 2.77 fps)

Summary for Pond 95P: CB 76

Inflow Area = 0.141 ac, 70.69% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 0.78 cfs @ 12.09 hrs, Volume= 0.057 af
 Outflow = 0.78 cfs @ 12.09 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.78 cfs @ 12.09 hrs, Volume= 0.057 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.20' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.76 cfs @ 12.09 hrs HW=63.19' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.76 cfs @ 2.55 fps)

Summary for Pond 96P: DMH 56

Inflow Area = 0.985 ac, 71.08% Impervious, Inflow Depth > 4.84" for 25-Year event
 Inflow = 5.45 cfs @ 12.09 hrs, Volume= 0.398 af
 Outflow = 5.45 cfs @ 12.09 hrs, Volume= 0.398 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.45 cfs @ 12.09 hrs, Volume= 0.398 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.40' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.00'	18.0" Round Culvert L= 134.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.00' / 61.10' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.32 cfs @ 12.09 hrs HW=63.37' (Free Discharge)

↑**1=Culvert** (Inlet Controls 5.32 cfs @ 3.14 fps)

Summary for Pond 97P: Sub. INF 9

Inflow Area = 1.214 ac, 72.06% Impervious, Inflow Depth > 4.85" for 25-Year event
 Inflow = 6.72 cfs @ 12.09 hrs, Volume= 0.490 af
 Outflow = 6.69 cfs @ 12.09 hrs, Volume= 0.399 af, Atten= 1%, Lag= 0.0 min
 Discarded = 0.03 cfs @ 5.55 hrs, Volume= 0.036 af
 Primary = 6.66 cfs @ 12.09 hrs, Volume= 0.363 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.66' @ 12.09 hrs Surf.Area= 1,260 sf Storage= 4,485 cf

Plug-Flow detention time= 86.6 min calculated for 0.399 af (81% of inflow)
 Center-of-Mass det. time= 35.1 min (787.3 - 752.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	514 cf	42.00'W x 30.00'L x 5.17'H Field A 6,514 cf Overall - 5,230 cf Embedded = 1,284 cf x 40.0% Voids
#2A	59.50'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 5 Rows
		4,514 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	57.50'	15.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.50' / 53.00' S= 0.1500 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	63.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.55 hrs HW=59.05' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=6.49 cfs @ 12.09 hrs HW=63.65' (Free Discharge)
 ↑ **2=Culvert** (Passes 6.49 cfs of 10.96 cfs potential flow)
 ↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 6.49 cfs @ 2.51 fps)

Summary for Pond 98P: DMH 61

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 4.81" for 25-Year event
 Inflow = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af
 Outflow = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af
 Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 61.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 58.30' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.55 cfs @ 12.09 hrs HW=61.02' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.55 cfs @ 2.96 fps)**Summary for Pond 99P: CB 81**

Inflow Area = 0.258 ac, 68.08% Impervious, Inflow Depth > 4.73" for 25-Year event
Inflow = 1.40 cfs @ 12.09 hrs, Volume= 0.101 af
Outflow = 1.40 cfs @ 12.09 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min
Primary = 1.40 cfs @ 12.09 hrs, Volume= 0.101 af
Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.37 cfs @ 12.09 hrs HW=63.76' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.37 cfs @ 2.92 fps)**Summary for Pond 100P: CB 80**

Inflow Area = 0.383 ac, 73.17% Impervious, Inflow Depth > 4.93" for 25-Year event
Inflow = 2.14 cfs @ 12.09 hrs, Volume= 0.157 af
Outflow = 2.14 cfs @ 12.09 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
Primary = 2.14 cfs @ 12.09 hrs, Volume= 0.157 af
Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.09 cfs @ 12.09 hrs HW=64.01' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.09 cfs @ 3.25 fps)

Summary for Pond 101P: DMH 59

Inflow Area = 0.640 ac, 71.12% Impervious, Inflow Depth > 4.85" for 25-Year event
 Inflow = 3.55 cfs @ 12.09 hrs, Volume= 0.259 af
 Outflow = 3.55 cfs @ 12.09 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.55 cfs @ 12.09 hrs, Volume= 0.259 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.79'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.79' / 62.10' S= 0.0051 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.46 cfs @ 12.09 hrs HW=63.82' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.46 cfs @ 3.76 fps)

Summary for Pond 102P: CB 93

Inflow Area = 0.178 ac, 69.60% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 0.072 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=62.02' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.96 cfs @ 2.66 fps)

Summary for Pond 103P: CB 92

Inflow Area = 0.313 ac, 76.83% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 1.76 cfs @ 12.09 hrs, Volume= 0.129 af
 Outflow = 1.76 cfs @ 12.09 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.76 cfs @ 12.09 hrs, Volume= 0.129 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.31' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.71 cfs @ 12.09 hrs HW=62.30' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.71 cfs @ 3.05 fps)

Summary for Pond 104P: CB 83

Inflow Area = 0.343 ac, 64.21% Impervious, Inflow Depth > 4.62" for 25-Year event
Inflow = 1.84 cfs @ 12.09 hrs, Volume= 0.132 af
Outflow = 1.84 cfs @ 12.09 hrs, Volume= 0.132 af, Atten= 0%, Lag= 0.0 min
Primary = 1.84 cfs @ 12.09 hrs, Volume= 0.132 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.93' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.79 cfs @ 12.09 hrs HW=61.92' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.79 cfs @ 3.12 fps)

Summary for Pond 105P: CB 82

Inflow Area = 0.504 ac, 74.80% Impervious, Inflow Depth > 4.93" for 25-Year event
Inflow = 2.83 cfs @ 12.09 hrs, Volume= 0.207 af
Outflow = 2.83 cfs @ 12.09 hrs, Volume= 0.207 af, Atten= 0%, Lag= 0.0 min
Primary = 2.83 cfs @ 12.09 hrs, Volume= 0.207 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.39' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.75 cfs @ 12.09 hrs HW=62.35' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.75 cfs @ 3.51 fps)

Summary for Pond 106P: DMH 60

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 4.81" for 25-Year event
 Inflow = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af
 Outflow = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.66 cfs @ 12.09 hrs, Volume= 0.339 af
 Routed to Pond 98P : DMH 61

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	18.0" Round Culvert L= 110.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 59.90' S= 0.0082 ' S= 0.0082 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.55 cfs @ 12.09 hrs HW=62.02' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 4.55 cfs @ 2.96 fps)

Summary for Pond 107P: CB

Inflow Area = 0.358 ac, 66.21% Impervious, Inflow Depth > 4.69" for 25-Year event
 Inflow = 1.94 cfs @ 12.09 hrs, Volume= 0.140 af
 Outflow = 1.94 cfs @ 12.09 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.94 cfs @ 12.09 hrs, Volume= 0.140 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.92' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.1000 ' S= 0.1000 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=60.90' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.90 cfs @ 2.55 fps)

Summary for Pond 108P: CB 88

Inflow Area = 0.160 ac, 74.59% Impervious, Inflow Depth > 4.91" for 25-Year event
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.065 af
 Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.065 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.0909 ' S= 0.0909 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=60.54' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.87 cfs @ 1.98 fps)

Summary for Pond 109P: CB 79

Inflow Area = 0.457 ac, 64.44% Impervious, Inflow Depth > 4.62" for 25-Year event
 Inflow = 2.45 cfs @ 12.09 hrs, Volume= 0.176 af
 Outflow = 2.45 cfs @ 12.09 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.45 cfs @ 12.09 hrs, Volume= 0.176 af
 Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.39 cfs @ 12.09 hrs HW=62.55' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.39 cfs @ 3.32 fps)

Summary for Pond 110P: CB 78

Inflow Area = 0.396 ac, 64.26% Impervious, Inflow Depth > 4.62" for 25-Year event
 Inflow = 2.13 cfs @ 12.09 hrs, Volume= 0.152 af
 Outflow = 2.13 cfs @ 12.09 hrs, Volume= 0.152 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.13 cfs @ 12.09 hrs, Volume= 0.152 af
 Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.31' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	15.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.07 cfs @ 12.09 hrs HW=62.30' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.07 cfs @ 3.06 fps)

Summary for Pond 111P: DMH 57

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 4.62" for 25-Year event
 Inflow = 4.58 cfs @ 12.09 hrs, Volume= 0.328 af
 Outflow = 4.58 cfs @ 12.09 hrs, Volume= 0.328 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.58 cfs @ 12.09 hrs, Volume= 0.328 af
 Routed to Pond 60P : SUB. INF 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	24.0" Round Culvert L= 74.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.60' S= 0.0054 ' S= 0.0054 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.46 cfs @ 12.09 hrs HW=62.07' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 4.46 cfs @ 3.77 fps)

Summary for Pond 112P: CB 45

Inflow Area = 0.290 ac, 58.56% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.104 af
 Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.104 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.39' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.44 cfs @ 12.09 hrs HW=58.38' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.44 cfs @ 2.97 fps)

Summary for Pond 113P: CB 95

Inflow Area = 0.189 ac, 91.26% Impervious, Inflow Depth > 5.32" for 25-Year event
 Inflow = 1.10 cfs @ 12.09 hrs, Volume= 0.084 af
 Outflow = 1.10 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.10 cfs @ 12.09 hrs, Volume= 0.084 af
 Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.07 cfs @ 12.09 hrs HW=60.66' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.07 cfs @ 2.76 fps)

Summary for Pond 114P: CB 94

Inflow Area = 0.285 ac, 80.60% Impervious, Inflow Depth > 5.04" for 25-Year event
 Inflow = 1.62 cfs @ 12.09 hrs, Volume= 0.120 af
 Outflow = 1.62 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.62 cfs @ 12.09 hrs, Volume= 0.120 af
 Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.86' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.58 cfs @ 12.09 hrs HW=60.84' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.58 cfs @ 3.02 fps)

Summary for Pond 115P: CB 91

Inflow Area = 0.275 ac, 75.65% Impervious, Inflow Depth > 4.93" for 25-Year event
 Inflow = 1.54 cfs @ 12.09 hrs, Volume= 0.113 af
 Outflow = 1.54 cfs @ 12.09 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.54 cfs @ 12.09 hrs, Volume= 0.113 af
 Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0833 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 12.09 hrs HW=59.99' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.50 cfs @ 2.34 fps)

Summary for Pond 116P: CB 90

Inflow Area = 0.112 ac, 84.21% Impervious, Inflow Depth > 5.13" for 25-Year event
 Inflow = 0.64 cfs @ 12.09 hrs, Volume= 0.048 af
 Outflow = 0.64 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.64 cfs @ 12.09 hrs, Volume= 0.048 af
 Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.69' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0714 ' S= 0.0714 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=59.68' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.63 cfs @ 1.81 fps)

Summary for Pond 117P: DMH 69

Inflow Area = 0.491 ac, 74.21% Impervious, Inflow Depth > 4.90" for 25-Year event
 Inflow = 2.74 cfs @ 12.09 hrs, Volume= 0.201 af
 Outflow = 2.74 cfs @ 12.09 hrs, Volume= 0.201 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.74 cfs @ 12.09 hrs, Volume= 0.201 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.26'	18.0" Round Culvert L= 140.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.26' / 58.56' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.67 cfs @ 12.09 hrs HW=60.15' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.67 cfs @ 3.53 fps)

Summary for Pond 118P: DMH 70

Inflow Area = 0.474 ac, 84.85% Impervious, Inflow Depth > 5.15" for 25-Year event
 Inflow = 2.72 cfs @ 12.09 hrs, Volume= 0.204 af
 Outflow = 2.72 cfs @ 12.09 hrs, Volume= 0.204 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.72 cfs @ 12.09 hrs, Volume= 0.204 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 59.36' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.61 cfs @ 12.09 hrs HW=61.16' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.61 cfs @ 3.33 fps)

Summary for Pond 119P: DMH 66

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 5.58 cfs @ 12.09 hrs, Volume= 0.406 af
 Outflow = 5.58 cfs @ 12.09 hrs, Volume= 0.406 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.58 cfs @ 12.09 hrs, Volume= 0.406 af
 Routed to Pond 251P : Sub. Inf. 10

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.46'	18.0" Round Culvert L= 102.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.46' / 57.95' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.43 cfs @ 12.09 hrs HW=59.88' (Free Discharge)

↑**1=Culvert** (Barrel Controls 5.43 cfs @ 4.06 fps)

Summary for Pond 120P: DMH 67

Inflow Area = 0.388 ac, 78.13% Impervious, Inflow Depth > 4.99" for 25-Year event
 Inflow = 2.19 cfs @ 12.09 hrs, Volume= 0.161 af
 Outflow = 2.19 cfs @ 12.09 hrs, Volume= 0.161 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.19 cfs @ 12.09 hrs, Volume= 0.161 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.85'	24.0" Round Culvert L= 40.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.85' / 57.00' S= 0.0213 ' S= 0.0213 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.13 cfs @ 12.09 hrs HW=58.54' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.13 cfs @ 2.23 fps)

Summary for Pond 122P: CB 46

Inflow Area = 0.275 ac, 72.42% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 1.52 cfs @ 12.09 hrs, Volume= 0.111 af
 Outflow = 1.52 cfs @ 12.09 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.52 cfs @ 12.09 hrs, Volume= 0.111 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.43' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.48 cfs @ 12.09 hrs HW=58.41' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.48 cfs @ 2.91 fps)

Summary for Pond 123P: DMH 31

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 4.56" for 25-Year event
 Inflow = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af
 Outflow = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af
 Routed to Pond 124P : DMH 32

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.39'	18.0" Round Culvert L= 78.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.39' / 56.61' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.92 cfs @ 12.09 hrs HW=58.31' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.92 cfs @ 2.58 fps)

Summary for Pond 124P: DMH 32

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 4.56" for 25-Year event
 Inflow = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af
 Outflow = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.00 cfs @ 12.09 hrs, Volume= 0.215 af
 Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.50' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.57'	18.0" Round Culvert L= 75.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.57' / 54.70' S= 0.0249 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.92 cfs @ 12.09 hrs HW=57.49' (Free Discharge)

↑**1=Culvert** (Inlet Controls 2.92 cfs @ 2.58 fps)

Summary for Pond 125P: CB 36

Inflow Area = 0.196 ac, 76.76% Impervious, Inflow Depth > 4.09" for 25-Year event
 Inflow = 0.96 cfs @ 12.09 hrs, Volume= 0.067 af
 Outflow = 0.96 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.96 cfs @ 12.09 hrs, Volume= 0.067 af
 Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=55.07' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.94 cfs @ 2.62 fps)

Summary for Pond 126P: CB 37

Inflow Area = 0.225 ac, 79.18% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 1.15 cfs @ 12.09 hrs, Volume= 0.081 af
 Outflow = 1.15 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.15 cfs @ 12.09 hrs, Volume= 0.081 af
 Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.12 cfs @ 12.09 hrs HW=55.14' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.12 cfs @ 2.73 fps)

Summary for Pond 127P: DMH 26

Inflow Area = 0.421 ac, 78.05% Impervious, Inflow Depth > 4.21" for 25-Year event
 Inflow = 2.11 cfs @ 12.09 hrs, Volume= 0.148 af
 Outflow = 2.11 cfs @ 12.09 hrs, Volume= 0.148 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.11 cfs @ 12.09 hrs, Volume= 0.148 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.24' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.25'	12.0" Round Culvert L= 84.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.25' / 52.80' S= 0.0173 ' S= 0.0173 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.07 cfs @ 12.09 hrs HW=55.22' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.07 cfs @ 2.65 fps)

Summary for Pond 129P: CB 34

Inflow Area = 0.260 ac, 54.23% Impervious, Inflow Depth > 2.81" for 25-Year event
 Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.061 af
 Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.90 cfs @ 12.09 hrs, Volume= 0.061 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0071 ' S= 0.0071 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.09 hrs HW=55.77' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.89 cfs @ 2.76 fps)

Summary for Pond 131P: CB 35

Inflow Area = 0.210 ac, 39.72% Impervious, Inflow Depth > 2.02" for 25-Year event
 Inflow = 0.51 cfs @ 12.10 hrs, Volume= 0.035 af
 Outflow = 0.51 cfs @ 12.10 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.51 cfs @ 12.10 hrs, Volume= 0.035 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.61' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.51 cfs @ 12.10 hrs HW=55.61' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.51 cfs @ 2.50 fps)**Summary for Pond 132P: CB 33**

Inflow Area = 0.535 ac, 41.20% Impervious, Inflow Depth > 2.10" for 25-Year event
 Inflow = 1.37 cfs @ 12.10 hrs, Volume= 0.094 af
 Outflow = 1.37 cfs @ 12.10 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.37 cfs @ 12.10 hrs, Volume= 0.094 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.93' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.36 cfs @ 12.10 hrs HW=55.93' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.36 cfs @ 3.11 fps)**Summary for Pond 133P: DMH 24**

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 2.27" for 25-Year event
 Inflow = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af
 Outflow = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af
 Routed to Pond 246P : Sub. Inf. 3D

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.63' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.65'	18.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.65' / 54.50' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.76 cfs @ 12.10 hrs HW=55.63' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.76 cfs @ 3.21 fps)

Summary for Pond 134P: DMH 25

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 2.27" for 25-Year event
 Inflow = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af
 Outflow = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.78 cfs @ 12.10 hrs, Volume= 0.190 af
 Routed to Pond 133P : DMH 24

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.98' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.00'	18.0" Round Culvert L= 93.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.00' / 54.65' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.76 cfs @ 12.10 hrs HW=55.97' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.76 cfs @ 3.24 fps)

Summary for Pond 136P: CB 38

Inflow Area = 0.180 ac, 66.23% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 0.77 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.77 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.77 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=54.03' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.75 cfs @ 2.56 fps)

Summary for Pond 137P: CB 44

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.090 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.090 af
 Routed to Pond 239P : INF 3C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.00' S= 0.0071 ' S= 0.0071 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.25 cfs @ 12.09 hrs HW=54.17' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.25 cfs @ 2.21 fps)

Summary for Pond 138P: CB 39

Inflow Area = 0.145 ac, 72.58% Impervious, Inflow Depth > 3.89" for 25-Year event
Inflow = 0.68 cfs @ 12.09 hrs, Volume= 0.047 af
Outflow = 0.68 cfs @ 12.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.09 hrs, Volume= 0.047 af
Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=54.00' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.66 cfs @ 2.50 fps)

Summary for Pond 139P: DMH 28

Inflow Area = 0.325 ac, 69.06% Impervious, Inflow Depth > 3.66" for 25-Year event
Inflow = 1.45 cfs @ 12.09 hrs, Volume= 0.099 af
Outflow = 1.45 cfs @ 12.09 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
Primary = 1.45 cfs @ 12.09 hrs, Volume= 0.099 af
Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.30'	12.0" Round Culvert L= 99.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.30' / 52.80' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.42 cfs @ 12.09 hrs HW=54.06' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.42 cfs @ 3.07 fps)

Summary for Pond 142P: CB 40

Inflow Area = 0.409 ac, 65.98% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af
 Outflow = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.71 cfs @ 12.09 hrs HW=51.40' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.71 cfs @ 3.14 fps)

Summary for Pond 143P: CB 41

Inflow Area = 0.577 ac, 66.17% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 2.46 cfs @ 12.09 hrs, Volume= 0.167 af
 Outflow = 2.46 cfs @ 12.09 hrs, Volume= 0.167 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.46 cfs @ 12.09 hrs, Volume= 0.167 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.41 cfs @ 12.09 hrs HW=51.68' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.41 cfs @ 3.07 fps)

Summary for Pond 144P: DMH 30

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af
 Outflow = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af
 Routed to Pond 145P : DMH 29

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 51.54' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.33'	18.0" Round Culvert L= 73.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.33' / 49.96' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.12 cfs @ 12.09 hrs HW=51.52' (Free Discharge)↑**1=Culvert** (Barrel Controls 4.12 cfs @ 3.75 fps)**Summary for Pond 145P: DMH 29**

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 3.48" for 25-Year event
Inflow = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af
Outflow = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min
Primary = 4.21 cfs @ 12.09 hrs, Volume= 0.286 af
Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.01' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.86'	18.0" Round Culvert L= 95.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.86' / 49.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.12 cfs @ 12.09 hrs HW=51.00' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.12 cfs @ 2.87 fps)**Summary for Pond 147P: CB 28**

Inflow Area = 0.372 ac, 68.57% Impervious, Inflow Depth > 3.64" for 25-Year event
Inflow = 1.65 cfs @ 12.09 hrs, Volume= 0.113 af
Outflow = 1.65 cfs @ 12.09 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
Primary = 1.65 cfs @ 12.09 hrs, Volume= 0.113 af
Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.62 cfs @ 12.09 hrs HW=55.06' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.62 cfs @ 3.01 fps)

Summary for Pond 148P: CB 43

Inflow Area = 0.196 ac, 80.21% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 1.00 cfs @ 12.09 hrs, Volume= 0.070 af
 Outflow = 1.00 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.00 cfs @ 12.09 hrs, Volume= 0.070 af
 Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	12.0" Round Culvert L= 68.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.00' / 49.00' S= 0.0441 ' S= 0.0441 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.98 cfs @ 12.09 hrs HW=52.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.98 cfs @ 2.05 fps)

Summary for Pond 149P: CB 29

Inflow Area = 0.399 ac, 65.93% Impervious, Inflow Depth > 3.58" for 25-Year event
 Inflow = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af
 Outflow = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.09 hrs, Volume= 0.119 af
 Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.71 cfs @ 12.09 hrs HW=55.07' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.71 cfs @ 3.15 fps)

Summary for Pond 150P: DMH 22

Inflow Area = 0.771 ac, 67.20% Impervious, Inflow Depth > 3.61" for 25-Year event
 Inflow = 3.40 cfs @ 12.09 hrs, Volume= 0.232 af
 Outflow = 3.40 cfs @ 12.09 hrs, Volume= 0.232 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.40 cfs @ 12.09 hrs, Volume= 0.232 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.10' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.95'	15.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.95' / 53.23' S= 0.0144 ' S= 0.0144 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.33 cfs @ 12.09 hrs HW=55.08' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.33 cfs @ 2.86 fps)**Summary for Pond 151P: CB 22**

Inflow Area = 0.159 ac, 74.64% Impervious, Inflow Depth > 3.99" for 25-Year event
Inflow = 0.77 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.77 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.77 cfs @ 12.09 hrs, Volume= 0.053 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0054 ' S= 0.0054 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=52.84' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.75 cfs @ 2.49 fps)**Summary for Pond 152P: CB 23**

Inflow Area = 0.210 ac, 67.61% Impervious, Inflow Depth > 3.58" for 25-Year event
Inflow = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af
Outflow = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
Primary = 0.92 cfs @ 12.09 hrs, Volume= 0.063 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.89' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=52.88' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.90 cfs @ 2.72 fps)

Summary for Pond 153P: DMH 17

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 3.84" for 25-Year event
 Inflow = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af
 Outflow = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af
 Routed to Pond 204P : DMH 18

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.22' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.05'	18.0" Round Culvert L= 94.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.05' / 51.55' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.85 cfs @ 12.09 hrs HW=54.17' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 7.85 cfs @ 4.44 fps)

Summary for Pond 154P: CB 18

Inflow Area = 0.207 ac, 76.76% Impervious, Inflow Depth > 4.09" for 25-Year event
 Inflow = 1.02 cfs @ 12.09 hrs, Volume= 0.071 af
 Outflow = 1.02 cfs @ 12.09 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.02 cfs @ 12.09 hrs, Volume= 0.071 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.99 cfs @ 12.09 hrs HW=53.87' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.99 cfs @ 2.76 fps)

Summary for Pond 155P: CB 27

Inflow Area = 0.220 ac, 74.64% Impervious, Inflow Depth > 3.99" for 25-Year event
 Inflow = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af
 Outflow = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.06 cfs @ 12.09 hrs, Volume= 0.073 af
 Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.25' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=55.24' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.03 cfs @ 2.75 fps)

Summary for Pond 156P: CB 26

Inflow Area = 0.108 ac, 90.07% Impervious, Inflow Depth > 4.93" for 25-Year event
Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.044 af
Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.044 af
Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=55.06' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.43 fps)

Summary for Pond 157P: DMH 21

Inflow Area = 0.328 ac, 79.72% Impervious, Inflow Depth > 4.30" for 25-Year event
Inflow = 1.66 cfs @ 12.09 hrs, Volume= 0.117 af
Outflow = 1.66 cfs @ 12.09 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 1.66 cfs @ 12.09 hrs, Volume= 0.117 af
Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.40'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.40' / 53.50' S= 0.0105 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.62 cfs @ 12.09 hrs HW=55.20' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.62 cfs @ 2.40 fps)

Summary for Pond 158P: CB 24

Inflow Area = 0.117 ac, 70.43% Impervious, Inflow Depth > 3.78" for 25-Year event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af
 Outflow = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.54 cfs @ 12.09 hrs, Volume= 0.037 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.04' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=54.04' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.52 cfs @ 2.34 fps)

Summary for Pond 159P: CB 25

Inflow Area = 0.146 ac, 79.60% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=54.13' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.73 cfs @ 2.51 fps)

Summary for Pond 160P: DMH 20

Inflow Area = 0.591 ac, 77.85% Impervious, Inflow Depth > 4.20" for 25-Year event
 Inflow = 2.94 cfs @ 12.09 hrs, Volume= 0.207 af
 Outflow = 2.94 cfs @ 12.09 hrs, Volume= 0.207 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.94 cfs @ 12.09 hrs, Volume= 0.207 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 54.88' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.40'	12.0" Round Culvert L= 33.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.40' / 53.23' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.87 cfs @ 12.09 hrs HW=54.84' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.87 cfs @ 3.66 fps)**Summary for Pond 161P: DMH 19**

Inflow Area = 1.362 ac, 71.82% Impervious, Inflow Depth > 3.87" for 25-Year event
Inflow = 6.34 cfs @ 12.09 hrs, Volume= 0.439 af
Outflow = 6.34 cfs @ 12.09 hrs, Volume= 0.439 af, Atten= 0%, Lag= 0.0 min
Primary = 6.34 cfs @ 12.09 hrs, Volume= 0.439 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.13'	18.0" Round Culvert L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.13' / 52.15' S= 0.0098 ' S= 0.0098 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.20 cfs @ 12.09 hrs HW=54.73' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.20 cfs @ 3.51 fps)**Summary for Pond 162P: CB 15**

Inflow Area = 0.390 ac, 63.16% Impervious, Inflow Depth > 3.29" for 25-Year event
Inflow = 1.58 cfs @ 12.09 hrs, Volume= 0.107 af
Outflow = 1.58 cfs @ 12.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 1.58 cfs @ 12.09 hrs, Volume= 0.107 af
Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.04'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.04' / 50.84' S= 0.0143 ' S= 0.0143 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.55 cfs @ 12.09 hrs HW=51.82' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.55 cfs @ 2.37 fps)

Summary for Pond 163P: CB 14

Inflow Area = 0.311 ac, 63.37% Impervious, Inflow Depth > 3.29" for 25-Year event
 Inflow = 1.26 cfs @ 12.09 hrs, Volume= 0.085 af
 Outflow = 1.26 cfs @ 12.09 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.26 cfs @ 12.09 hrs, Volume= 0.085 af
 Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.94' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.23 cfs @ 12.09 hrs HW=51.79' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.23 cfs @ 2.74 fps)

Summary for Pond 165P: CB 19

Inflow Area = 0.209 ac, 66.66% Impervious, Inflow Depth > 3.48" for 25-Year event
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af
 Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=53.83' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.88 cfs @ 2.68 fps)

Summary for Pond 166P: DMH 13

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.45" for 25-Year event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af
 Outflow = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af
 Routed to Pond 169P : DMH 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.16'	12.0" Round Culvert L= 92.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.16' / 51.70' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.87 cfs @ 12.09 hrs HW=53.08' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.87 cfs @ 3.24 fps)

Summary for Pond 167P: CB 11

Inflow Area = 0.209 ac, 65.78% Impervious, Inflow Depth > 3.48" for 25-Year event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.061 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0105 ' S= 0.0105 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=51.34' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.87 cfs @ 2.88 fps)

Summary for Pond 168P: CB 10

Inflow Area = 0.231 ac, 30.05% Impervious, Inflow Depth > 1.61" for 25-Year event
Inflow = 0.44 cfs @ 12.10 hrs, Volume= 0.031 af
Outflow = 0.44 cfs @ 12.10 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 12.10 hrs, Volume= 0.031 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.16' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0182 ' S= 0.0182 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.10 hrs HW=51.16' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.43 cfs @ 1.64 fps)

Summary for Pond 169P: DMH 12

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.45" for 25-Year event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af
 Outflow = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.91 cfs @ 12.09 hrs, Volume= 0.131 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.52' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.60'	12.0" Round Culvert L= 107.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.60' / 51.06' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.87 cfs @ 12.09 hrs HW=52.51' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.87 cfs @ 3.27 fps)

Summary for Pond 170P: CB 9

Inflow Area = 0.227 ac, 61.54% Impervious, Inflow Depth > 3.19" for 25-Year event
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.95' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 21.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0667 ' S= 0.0667 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=50.95' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.87 cfs @ 1.99 fps)

Summary for Pond 171P: DMH 6

Inflow Area = 2.272 ac, 49.70% Impervious, Inflow Depth > 2.50" for 25-Year event
 Inflow = 6.72 cfs @ 12.09 hrs, Volume= 0.474 af
 Outflow = 6.72 cfs @ 12.09 hrs, Volume= 0.474 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.72 cfs @ 12.09 hrs, Volume= 0.474 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

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Peak Elev= 50.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.80'	18.0" Round Culvert L= 130.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.80' / 47.85' S= 0.0073 ' S= 0.0073 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.61 cfs @ 12.09 hrs HW=50.52' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.61 cfs @ 3.74 fps)**Summary for Pond 172P: CB 16**

Inflow Area = 0.317 ac, 75.85% Impervious, Inflow Depth > 4.09" for 25-Year event
Inflow = 1.55 cfs @ 12.09 hrs, Volume= 0.108 af
Outflow = 1.55 cfs @ 12.09 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.0 min
Primary = 1.55 cfs @ 12.09 hrs, Volume= 0.108 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.52 cfs @ 12.09 hrs HW=52.71' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.52 cfs @ 3.04 fps)**Summary for Pond 173P: CB 17**

Inflow Area = 0.130 ac, 71.18% Impervious, Inflow Depth > 3.78" for 25-Year event
Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.041 af
Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.041 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.36' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.09 hrs HW=52.35' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.58 cfs @ 2.47 fps)

Summary for Pond 174P: DMH 11

Inflow Area = 3.938 ac, 68.53% Impervious, Inflow Depth > 0.85" for 25-Year event
 Inflow = 4.06 cfs @ 12.09 hrs, Volume= 0.280 af
 Outflow = 4.06 cfs @ 12.09 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.06 cfs @ 12.09 hrs, Volume= 0.280 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.96'	18.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.96' / 50.70' S= 0.0118 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.97 cfs @ 12.09 hrs HW=52.08' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.97 cfs @ 3.91 fps)

Summary for Pond 175P: DMH 5

Inflow Area = 1.445 ac, 58.41% Impervious, Inflow Depth > 3.06" for 25-Year event
 Inflow = 5.40 cfs @ 12.09 hrs, Volume= 0.368 af
 Outflow = 5.40 cfs @ 12.09 hrs, Volume= 0.368 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.40 cfs @ 12.09 hrs, Volume= 0.368 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.93' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.52'	18.0" Round Culvert L= 103.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.52' / 49.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.31 cfs @ 12.09 hrs HW=50.91' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.31 cfs @ 4.05 fps)

Summary for Pond 176P: CB 6

Inflow Area = 0.199 ac, 57.72% Impervious, Inflow Depth > 3.00" for 25-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af
 Outflow = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 0.050 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 50.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 12.09 hrs HW=50.31' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.72 cfs @ 1.88 fps)**Summary for Pond 177P: CB 13**

Inflow Area = 0.319 ac, 64.43% Impervious, Inflow Depth > 3.38" for 25-Year event
Inflow = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af
Outflow = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
Primary = 1.33 cfs @ 12.09 hrs, Volume= 0.090 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=51.99' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.30 cfs @ 2.88 fps)**Summary for Pond 178P: CB 12**

Inflow Area = 0.152 ac, 60.77% Impervious, Inflow Depth > 3.19" for 25-Year event
Inflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
Outflow = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
Primary = 0.60 cfs @ 12.09 hrs, Volume= 0.040 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=51.71' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.41 fps)

Summary for Pond 179P: DMH 8

Inflow Area = 0.472 ac, 63.25% Impervious, Inflow Depth > 3.32" for 25-Year event
 Inflow = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af
 Outflow = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.93 cfs @ 12.09 hrs, Volume= 0.130 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.70' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.89 cfs @ 12.09 hrs HW=51.99' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.89 cfs @ 3.21 fps)

Summary for Pond 180P: DMH 9

Inflow Area = 0.701 ac, 63.25% Impervious, Inflow Depth > 3.29" for 25-Year event
 Inflow = 2.83 cfs @ 12.09 hrs, Volume= 0.192 af
 Outflow = 2.83 cfs @ 12.09 hrs, Volume= 0.192 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.83 cfs @ 12.09 hrs, Volume= 0.192 af
 Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.84'	15.0" Round Culvert L= 49.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.84' / 50.59' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.78 cfs @ 12.09 hrs HW=51.89' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.78 cfs @ 3.40 fps)

Summary for Pond 181P: DMH 7

Inflow Area = 1.141 ac, 56.99% Impervious, Inflow Depth > 2.98" for 25-Year event
 Inflow = 4.16 cfs @ 12.09 hrs, Volume= 0.284 af
 Outflow = 4.16 cfs @ 12.09 hrs, Volume= 0.284 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.16 cfs @ 12.09 hrs, Volume= 0.284 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.49'	15.0" Round Culvert L= 174.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.49' / 49.62' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.09 cfs @ 12.09 hrs HW=51.88' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.09 cfs @ 3.33 fps)**Summary for Pond 182P: CB 7**

Inflow Area = 0.105 ac, 75.17% Impervious, Inflow Depth > 3.99" for 25-Year event
Inflow = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.09 hrs, Volume= 0.035 af
Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.23' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=50.22' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.49 cfs @ 2.46 fps)**Summary for Pond 188P: CB 3**

Inflow Area = 0.158 ac, 54.66% Impervious, Inflow Depth > 2.72" for 25-Year event
Inflow = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af
Outflow = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.036 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 48.41' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 101.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0099 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=48.41' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.52 cfs @ 1.72 fps)

Summary for Pond 189P: CB 4

Inflow Area = 0.282 ac, 69.07% Impervious, Inflow Depth > 3.68" for 25-Year event
 Inflow = 1.27 cfs @ 12.09 hrs, Volume= 0.087 af
 Outflow = 1.27 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.27 cfs @ 12.09 hrs, Volume= 0.087 af
 Routed to Reach 204R : WATER QUALITY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0116 ' S= 0.0116 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.24 cfs @ 12.09 hrs HW=48.67' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.24 cfs @ 2.20 fps)

Summary for Pond 191P: CB 42

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 1.51 cfs @ 12.09 hrs, Volume= 0.109 af
 Outflow = 1.51 cfs @ 12.09 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.51 cfs @ 12.09 hrs, Volume= 0.109 af
 Routed to Pond 238P : SUB. INF 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.26' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	12.0" Round Culvert L= 194.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.50' / 49.00' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=51.25' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.47 cfs @ 2.33 fps)

Summary for Pond 193P: CB 1

Inflow Area = 0.172 ac, 31.70% Impervious, Inflow Depth > 1.30" for 25-Year event
 Inflow = 0.25 cfs @ 12.11 hrs, Volume= 0.019 af
 Outflow = 0.25 cfs @ 12.11 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.11 hrs, Volume= 0.019 af
 Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.14' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.84'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.84' / 46.71' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.11 hrs HW=47.14' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.25 cfs @ 1.88 fps)

Summary for Pond 194P: CB 2

Inflow Area = 0.094 ac, 74.38% Impervious, Inflow Depth > 3.99" for 25-Year event
Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.031 af
Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.031 af
Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.22' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.81'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.81' / 46.71' S= 0.0067 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=47.21' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.44 cfs @ 2.20 fps)

Summary for Pond 196P: CB 5

Inflow Area = 0.336 ac, 80.22% Impervious, Inflow Depth > 4.30" for 25-Year event
Inflow = 1.71 cfs @ 12.09 hrs, Volume= 0.120 af
Outflow = 1.71 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 1.71 cfs @ 12.09 hrs, Volume= 0.120 af
Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 49.83' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.00' / 48.50' S= 0.0500 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.67 cfs @ 12.09 hrs HW=49.82' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.67 cfs @ 2.43 fps)

Summary for Pond 197P: Inf. Basin 1

Inflow Area = 8.503 ac, 57.81% Impervious, Inflow Depth > 0.27" for 25-Year event
 Inflow = 2.20 cfs @ 12.23 hrs, Volume= 0.193 af
 Outflow = 1.02 cfs @ 12.54 hrs, Volume= 0.192 af, Atten= 54%, Lag= 18.1 min
 Discarded = 1.02 cfs @ 12.54 hrs, Volume= 0.192 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 46.25' @ 12.54 hrs Surf.Area= 2,323 sf Storage= 1,570 cf

Plug-Flow detention time= 12.0 min calculated for 0.192 af (100% of inflow)
 Center-of-Mass det. time= 11.6 min (820.7 - 809.1)

Volume	Invert	Avail.Storage	Storage Description
#1	45.50'	6,632 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
45.50	1,870	0	0
46.00	2,165	1,009	1,009
47.00	2,795	2,480	3,489
48.00	3,492	3,144	6,632

Device	Routing	Invert	Outlet Devices
#1	Discarded	45.50'	8.200 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 45.00'
#2	Primary	45.00'	10.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 45.00' / 43.50' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.55 sf
#3	Device 2	46.60'	10.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.01 cfs @ 12.54 hrs HW=46.25' (Free Discharge)

↑ **1=Exfiltration** (Controls 1.01 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=45.50' (Free Discharge)

↑ **2=Culvert** (Passes 0.00 cfs of 0.65 cfs potential flow)

↑ **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 198P: Sub. Inf. 2

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 3.84" for 25-Year event
 Inflow = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af
 Outflow = 3.84 cfs @ 12.27 hrs, Volume= 0.554 af, Atten= 52%, Lag= 10.5 min
 Discarded = 3.84 cfs @ 12.27 hrs, Volume= 0.554 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 52.97' @ 12.27 hrs Surf.Area= 2,788 sf Storage= 3,775 cf

Plug-Flow detention time= 6.5 min calculated for 0.553 af (100% of inflow)

Center-of-Mass det. time= 6.4 min (781.6 - 775.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	51.00'	2,514 cf	25.25'W x 110.42'L x 3.50'H Field A 9,758 cf Overall - 3,472 cf Embedded = 6,286 cf x 40.0% Voids
#2A	51.50'	3,472 cf	ADS_StormTech SC-740 b +Cap x 75 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 75 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		5,986 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	51.00'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	52.75'	12.0" Round Culvert L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 52.75' / 52.65' S= 0.0100 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	54.00'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=3.83 cfs @ 12.27 hrs HW=52.97' (Free Discharge)↑**1=Exfiltration** (Controls 3.83 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=51.00' (Free Discharge)↑**2=Culvert** (Controls 0.00 cfs)↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 200P: DMH 1**

Inflow Area = 0.265 ac, 46.75% Impervious, Inflow Depth > 2.25" for 25-Year event
 Inflow = 0.70 cfs @ 12.10 hrs, Volume= 0.050 af
 Outflow = 0.70 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 12.10 hrs, Volume= 0.050 af
 Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.20' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.70'	12.0" Round Culvert L= 208.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.70' / 45.70' S= 0.0048 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.10 hrs HW=47.19' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.69 cfs @ 2.61 fps)

Summary for Pond 201P: Sub. Inf. 3

Inflow Area = 1.343 ac, 61.65% Impervious, Inflow Depth > 3.25" for 25-Year event
 Inflow = 5.29 cfs @ 12.09 hrs, Volume= 0.364 af
 Outflow = 2.24 cfs @ 12.32 hrs, Volume= 0.364 af, Atten= 58%, Lag= 13.7 min
 Discarded = 2.24 cfs @ 12.32 hrs, Volume= 0.364 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.21' @ 12.32 hrs Surf.Area= 2,264 sf Storage= 2,611 cf

Plug-Flow detention time= 7.3 min calculated for 0.363 af (100% of inflow)
 Center-of-Mass det. time= 7.2 min (790.8 - 783.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	52.50'	2,058 cf	20.50'W x 110.42'L x 3.50'H Field A 7,922 cf Overall - 2,778 cf Embedded = 5,145 cf x 40.0% Voids
#2A	53.00'	2,778 cf	ADS StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
			4,836 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	52.50'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 51.00'
#2	Primary	54.00'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.00' / 53.65' S= 0.0175 ' S= 0.0175 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	55.50'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=2.24 cfs @ 12.32 hrs HW=54.20' (Free Discharge)

↑**1=Exfiltration** (Controls 2.24 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.50' (Free Discharge)

↑**2=Culvert** (Controls 0.00 cfs)

↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 202P: DMH 14

Inflow Area = 3.074 ac, 67.24% Impervious, Inflow Depth = 0.00" for 25-Year event
 Inflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.65' @ 5.00 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	18.0" Round Culvert L= 89.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.65' / 52.16' S= 0.0055 ' S= 0.0055 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=52.65' (Free Discharge)
 ↑**1=Culvert** (Controls 0.00 cfs)

Summary for Pond 204P: DMH 18

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 3.84" for 25-Year event
 Inflow = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af
 Outflow = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af, Atten= 0%, Lag= 0.0 min
 Primary = 8.02 cfs @ 12.09 hrs, Volume= 0.554 af
 Routed to Pond 198P : Sub. Inf. 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.72' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.55'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.55' / 51.50' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.85 cfs @ 12.09 hrs HW=53.67' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 7.85 cfs @ 4.44 fps)

Summary for Pond 205P: DMH 27

Inflow Area = 0.746 ac, 74.14% Impervious, Inflow Depth > 3.97" for 25-Year event
 Inflow = 3.56 cfs @ 12.09 hrs, Volume= 0.247 af
 Outflow = 3.56 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.56 cfs @ 12.09 hrs, Volume= 0.247 af
 Routed to Pond 201P : Sub. Inf. 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 54.61' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.70'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.70' / 52.60' S= 0.0063 ' S= 0.0063 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.48 cfs @ 12.09 hrs HW=54.56' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.48 cfs @ 4.43 fps)**Summary for Pond 206P: DMH 34**

Inflow Area = 1.284 ac, 75.37% Impervious, Inflow Depth > 3.46" for 25-Year event
Inflow = 4.13 cfs @ 12.09 hrs, Volume= 0.370 af
Outflow = 4.13 cfs @ 12.09 hrs, Volume= 0.370 af, Atten= 0%, Lag= 0.0 min
Primary = 4.13 cfs @ 12.09 hrs, Volume= 0.370 af
Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	15.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 54.50' S= -0.1800 ' S= -0.1800 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.02 cfs @ 12.09 hrs HW=55.87' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.02 cfs @ 3.28 fps)**Summary for Pond 207P: level spreader 7.8.9**

Inflow Area = 3.450 ac, 70.15% Impervious, Inflow Depth > 3.42" for 25-Year event
Inflow = 18.71 cfs @ 12.10 hrs, Volume= 0.982 af
Outflow = 18.18 cfs @ 12.09 hrs, Volume= 0.979 af, Atten= 3%, Lag= 0.0 min
Primary = 18.18 cfs @ 12.09 hrs, Volume= 0.979 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.33' @ 12.09 hrs Surf.Area= 233 sf Storage= 201 cf

Plug-Flow detention time= 1.6 min calculated for 0.979 af (100% of inflow)

Center-of-Mass det. time= 0.4 min (780.1 - 779.8)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Type III 24-hr 25-Year Rainfall=6.16"

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=18.01 cfs @ 12.09 hrs HW=57.33' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 18.01 cfs @ 1.54 fps)

Summary for Pond 208P: level spreader DB6

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 3.60" for 25-Year event
 Inflow = 7.64 cfs @ 12.18 hrs, Volume= 0.561 af
 Outflow = 7.67 cfs @ 12.18 hrs, Volume= 0.558 af, Atten= 0%, Lag= 0.3 min
 Primary = 7.67 cfs @ 12.18 hrs, Volume= 0.558 af
 Routed to Link 188L : DP 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.19' @ 12.18 hrs Surf.Area= 216 sf Storage= 169 cf

Plug-Flow detention time= 3.5 min calculated for 0.556 af (99% of inflow)
 Center-of-Mass det. time= 1.6 min (823.5 - 821.9)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	70	0	0
52.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=7.57 cfs @ 12.18 hrs HW=52.19' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 7.57 cfs @ 1.16 fps)

Summary for Pond 209P: level spreader 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 3.12" for 25-Year event
 Inflow = 3.26 cfs @ 12.09 hrs, Volume= 0.158 af
 Outflow = 3.37 cfs @ 12.09 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.4 min
 Primary = 3.37 cfs @ 12.09 hrs, Volume= 0.155 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.11' @ 12.09 hrs Surf.Area= 206 sf Storage= 153 cf

Plug-Flow detention time= 7.7 min calculated for 0.154 af (98% of inflow)
 Center-of-Mass det. time= 1.5 min (776.6 - 775.1)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.31 cfs @ 12.09 hrs HW=57.11' (Free Discharge)
 ↳ **1=Broad-Crested Rectangular Weir** (Weir Controls 3.31 cfs @ 0.88 fps)

Summary for Pond 210P: level spreader 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 3.60" for 25-Year event
 Inflow = 3.91 cfs @ 12.09 hrs, Volume= 0.206 af
 Outflow = 3.93 cfs @ 12.09 hrs, Volume= 0.203 af, Atten= 0%, Lag= 0.1 min
 Primary = 3.93 cfs @ 12.09 hrs, Volume= 0.203 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.12' @ 12.09 hrs Surf.Area= 207 sf Storage= 155 cf

Plug-Flow detention time= 7.0 min calculated for 0.203 af (99% of inflow)
 Center-of-Mass det. time= 1.4 min (776.2 - 774.8)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=3.82 cfs @ 12.09 hrs HW=57.12' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 3.82 cfs @ 0.92 fps)**Summary for Pond 211P: level spreader 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 2.15" for 25-Year event
 Inflow = 4.59 cfs @ 12.17 hrs, Volume= 0.314 af
 Outflow = 4.77 cfs @ 12.20 hrs, Volume= 0.313 af, Atten= 0%, Lag= 1.2 min
 Primary = 4.77 cfs @ 12.20 hrs, Volume= 0.313 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.14' @ 12.19 hrs Surf.Area= 148 sf Storage= 69 cf

Plug-Flow detention time= 1.8 min calculated for 0.313 af (100% of inflow)

Center-of-Mass det. time= 0.4 min (801.5 - 801.1)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=4.67 cfs @ 12.20 hrs HW=52.13' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 4.67 cfs @ 0.99 fps)

Summary for Pond 212P: level spreader DB5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 2.71" for 25-Year event
 Inflow = 1.08 cfs @ 12.88 hrs, Volume= 0.451 af
 Outflow = 1.08 cfs @ 12.85 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.08 cfs @ 12.85 hrs, Volume= 0.449 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.05' @ 12.85 hrs Surf.Area= 138 sf Storage= 57 cf

Plug-Flow detention time= 1.4 min calculated for 0.449 af (100% of inflow)
 Center-of-Mass det. time= 0.7 min (904.2 - 903.5)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=1.08 cfs @ 12.85 hrs HW=52.05' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 1.08 cfs @ 0.61 fps)

Summary for Pond 215P: CB 5A

Inflow Area = 0.149 ac, 77.32% Impervious, Inflow Depth > 4.20" for 25-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.40'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.40' / 48.20' S= 0.0154 ' S= 0.0154 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=48.89' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.73 cfs @ 1.89 fps)

Summary for Pond 216P: CB 8A

Inflow Area = 0.484 ac, 16.33% Impervious, Inflow Depth > 0.41" for 25-Year event
 Inflow = 0.09 cfs @ 12.48 hrs, Volume= 0.017 af
 Outflow = 0.09 cfs @ 12.48 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.09 cfs @ 12.48 hrs, Volume= 0.017 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.79' @ 12.48 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.63'	12.0" Round Culvert L= 63.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.63' / 49.00' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.48 hrs HW=49.79' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.09 cfs @ 1.08 fps)

Summary for Pond 217P: DMH 8A

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 1.12" for 25-Year event
 Inflow = 5.98 cfs @ 12.09 hrs, Volume= 0.411 af
 Outflow = 5.98 cfs @ 12.09 hrs, Volume= 0.411 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.98 cfs @ 12.09 hrs, Volume= 0.411 af
 Routed to Pond 245P : SUB ONF. 1B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.17' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.60'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.60' / 50.50' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.86 cfs @ 12.09 hrs HW=52.15' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.86 cfs @ 3.99 fps)

Summary for Pond 218P: CB A

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 3.38" for 25-Year event
 Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 219P : DMH A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.85'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.85' / 51.32' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=52.42' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.87 cfs @ 2.75 fps)**Summary for Pond 219P: DMH A**

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 3.38" for 25-Year event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.060 af
Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.27'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.27' / 50.93' S= 0.0057 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=51.83' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.87 cfs @ 2.75 fps)**Summary for Pond 221P: DET Basin 6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 3.85" for 25-Year event
Inflow = 8.76 cfs @ 12.11 hrs, Volume= 0.600 af
Outflow = 7.64 cfs @ 12.18 hrs, Volume= 0.561 af, Atten= 13%, Lag= 3.8 min
Primary = 7.64 cfs @ 12.18 hrs, Volume= 0.561 af
Routed to Pond 208P : level spreader DB6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.92' @ 12.18 hrs Surf.Area= 4,830 sf Storage= 6,517 cf

Plug-Flow detention time= 75.4 min calculated for 0.559 af (93% of inflow)

Center-of-Mass det. time= 55.9 min (821.9 - 766.0)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	12,315 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	2,498	0	0
53.00	3,157	2,828	2,828
54.00	4,968	4,063	6,890
55.00	5,881	5,425	12,315

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	18.0" Round Culvert L= 34.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 52.00' / 51.80' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.56 cfs @ 12.18 hrs HW=53.92' (Free Discharge)

- 1=Culvert (Passes 7.56 cfs of 8.10 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.43 cfs @ 6.41 fps)
 3=Orifice/Grate (Weir Controls 7.13 cfs @ 2.12 fps)

Summary for Pond 223P: Sub. Inf. 4B

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 5.01" for 25-Year event
 Inflow = 9.33 cfs @ 12.09 hrs, Volume= 0.691 af
 Outflow = 9.29 cfs @ 12.10 hrs, Volume= 0.611 af, Atten= 0%, Lag= 0.9 min
 Discarded = 0.03 cfs @ 5.20 hrs, Volume= 0.038 af
 Primary = 9.26 cfs @ 12.10 hrs, Volume= 0.573 af
 Routed to Pond 15P : Det. Basin 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.73' @ 12.10 hrs Surf.Area= 1,296 sf Storage= 4,254 cf

Plug-Flow detention time= 67.8 min calculated for 0.610 af (88% of inflow)
 Center-of-Mass det. time= 29.9 min (777.3 - 747.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	588 cf	18.00"W x 72.00"L x 5.17"H Field A 6,700 cf Overall - 5,230 cf Embedded = 1,470 cf x 40.0% Voids
#2A	59.00'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 2 Rows
		4,588 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area
#2	Primary	58.00'	18.0" Round Culvert L= 54.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 58.00' / 54.00' S= 0.0741 '/' Cc= 0.900

#3 Device 2 62.00' n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long + 1.0 ' SideZ x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.20 hrs HW=58.56' (Free Discharge)

↑ **1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=9.21 cfs @ 12.10 hrs HW=62.73' (Free Discharge)

↑ **2=Culvert** (Passes 9.21 cfs of 16.97 cfs potential flow)

↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 9.21 cfs @ 2.67 fps)

Summary for Pond 231P: Sub inf. 4A

Inflow Area = 0.514 ac, 88.33% Impervious, Inflow Depth > 5.25" for 25-Year event
 Inflow = 2.97 cfs @ 12.09 hrs, Volume= 0.225 af
 Outflow = 1.10 cfs @ 12.35 hrs, Volume= 0.116 af, Atten= 63%, Lag= 15.7 min
 Discarded = 0.04 cfs @ 6.45 hrs, Volume= 0.043 af
 Primary = 1.06 cfs @ 12.35 hrs, Volume= 0.073 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.22' @ 12.35 hrs Surf.Area= 1,508 sf Storage= 5,009 cf

Plug-Flow detention time= 150.4 min calculated for 0.116 af (52% of inflow)

Center-of-Mass det. time= 59.2 min (800.1 - 740.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	674 cf	26.00'W x 58.00'L x 6.17'H Field A 9,304 cf Overall - 7,620 cf Embedded = 1,684 cf x 40.0% Voids
#2A	55.50'	6,000 cf	Shea Leaching Chamber 8x14x5.7 x 12 Inside #1 Inside= 84.0"W x 60.0"H => 38.46 sf x 13.00'L = 500.0 cf Outside= 96.0"W x 68.0"H => 45.36 sf x 14.00'L = 635.0 cf 12 Chambers in 3 Rows
		6,674 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	59.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.04 cfs @ 6.45 hrs HW=55.06' (Free Discharge)

↑ **1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=1.05 cfs @ 12.35 hrs HW=59.22' (Free Discharge)

↑ **2=Orifice/Grate** (Weir Controls 1.05 cfs @ 1.53 fps)

Summary for Pond 233P: SUB. INF. 11

Inflow Area = 0.862 ac, 81.83% Impervious, Inflow Depth > 5.08" for 25-Year event
 Inflow = 4.91 cfs @ 12.09 hrs, Volume= 0.365 af
 Outflow = 3.55 cfs @ 12.17 hrs, Volume= 0.358 af, Atten= 28%, Lag= 4.8 min
 Discarded = 0.04 cfs @ 12.17 hrs, Volume= 0.035 af
 Primary = 3.51 cfs @ 12.17 hrs, Volume= 0.323 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.88' @ 12.17 hrs Surf.Area= 1,044 sf Storage= 1,825 cf

Plug-Flow detention time= 21.7 min calculated for 0.358 af (98% of inflow)
 Center-of-Mass det. time= 13.3 min (759.4 - 746.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	59.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 54.00'
#2	Primary	59.00'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.00' / 53.00' S= 0.1714 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Primary	60.90'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.17 hrs HW=60.85' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.04 cfs)

Primary OutFlow Max=3.47 cfs @ 12.17 hrs HW=60.85' (Free Discharge)

↑ **2=Culvert** (Inlet Controls 3.47 cfs @ 4.42 fps)

↑ **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 235P: ILSF BASIN

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 3.23" for 25-Year event
 Inflow = 34.37 cfs @ 12.10 hrs, Volume= 1.920 af
 Outflow = 9.68 cfs @ 12.46 hrs, Volume= 1.833 af, Atten= 72%, Lag= 21.9 min
 Primary = 9.68 cfs @ 12.46 hrs, Volume= 1.833 af
 Routed to Link 188L : DP 3

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.32' @ 12.46 hrs Surf.Area= 36,547 sf Storage= 37,240 cf

Plug-Flow detention time= 85.4 min calculated for 1.826 af (95% of inflow)
 Center-of-Mass det. time= 70.4 min (853.1 - 782.6)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	63,266 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	16,688	0	0
57.00	34,922	25,805	25,805
58.00	40,000	37,461	63,266

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	8.0" Vert. Orifice/Grate X 3.00 C= 0.600 Limited to weir flow at low heads
#2	Primary	57.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=9.66 cfs @ 12.46 hrs HW=57.32' (Free Discharge)

↑ **1=Orifice/Grate** (Orifice Controls 5.01 cfs @ 4.78 fps)

↓ **2=Broad-Crested Rectangular Weir** (Weir Controls 4.66 cfs @ 1.46 fps)

Summary for Pond 238P: SUB. INF 3A

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 4.73" for 25-Year event
 Inflow = 1.51 cfs @ 12.09 hrs, Volume= 0.109 af
 Outflow = 0.48 cfs @ 11.85 hrs, Volume= 0.109 af, Atten= 68%, Lag= 0.0 min
 Discarded = 0.48 cfs @ 11.85 hrs, Volume= 0.109 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.18' @ 12.39 hrs Surf.Area= 1,044 sf Storage= 789 cf

Plug-Flow detention time= 7.9 min calculated for 0.109 af (100% of inflow)
 Center-of-Mass det. time= 7.7 min (763.2 - 755.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	426 cf	18.00'W x 58.00'L x 4.17'H Field A 4,353 cf Overall - 3,288 cf Embedded = 1,065 cf x 40.0% Voids
#2A	49.50'	2,400 cf	Shea Leaching Chamber 8x14x3.7 x 8 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 8 Chambers in 2 Rows
		2,826 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	20.000 in/hr Exfiltration over Surface area
#2	Primary	53.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.48 cfs @ 11.85 hrs HW=49.05' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.48 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 239P: INF 3C

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 4.30" for 25-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.090 af
 Outflow = 0.36 cfs @ 11.85 hrs, Volume= 0.090 af, Atten= 72%, Lag= 0.0 min
 Discarded = 0.36 cfs @ 11.85 hrs, Volume= 0.090 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.64' @ 12.44 hrs Surf.Area= 1,044 sf Storage= 761 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 10.7 min (776.5 - 765.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	55.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
1,967 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	58.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.36 cfs @ 11.85 hrs HW=54.55' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.36 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.50' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 240P: Sub. Inf. 3B

Inflow Area = 1.365 ac, 60.63% Impervious, Inflow Depth > 3.21" for 25-Year event
 Inflow = 5.25 cfs @ 12.09 hrs, Volume= 0.365 af
 Outflow = 2.57 cfs @ 12.27 hrs, Volume= 0.365 af, Atten= 51%, Lag= 10.5 min
 Discarded = 2.57 cfs @ 12.27 hrs, Volume= 0.365 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.29' @ 12.27 hrs Surf.Area= 2,249 sf Storage= 1,892 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 3.8 min (786.3 - 782.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	2,035 cf	25.25'W x 89.06'L x 3.50'H Field A 7,870 cf Overall - 2,783 cf Embedded = 5,087 cf x 40.0% Voids
#2A	49.50'	2,783 cf	ADS_StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		4,818 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	30.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	51.90'	1.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=2.57 cfs @ 12.27 hrs HW=50.29' (Free Discharge)
 ↑**1=Exfiltration** (Controls 2.57 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 241P: Sub. Inf. 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 5.18" for 25-Year event
 Inflow = 3.95 cfs @ 12.09 hrs, Volume= 0.297 af
 Outflow = 3.94 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.04 cfs @ 12.09 hrs, Volume= 0.040 af
 Primary = 3.91 cfs @ 12.09 hrs, Volume= 0.206 af
 Routed to Pond 210P : level spreader 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Type III 24-hr 25-Year Rainfall=6.16"

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Peak Elev= 59.18' @ 12.09 hrs Surf.Area= 1,096 sf Storage= 2,319 cf

Plug-Flow detention time= 81.4 min calculated for 0.246 af (83% of inflow)

Center-of-Mass det. time= 33.2 min (775.6 - 742.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.50'	1,011 cf	20.50'W x 53.46'L x 3.50'H Field A 3,836 cf Overall - 1,308 cf Embedded = 2,528 cf x 40.0% Voids
#2A	56.00'	1,308 cf	ADS_StormTech SC-740 b +Cap x 28 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 28 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		2,319 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	56.00'	15.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 56.00' / 56.00' S= 0.0000 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	58.70'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.09 hrs HW=59.17' (Free Discharge)↑ **1=Exfiltration** (Controls 0.04 cfs)**Primary OutFlow** Max=3.80 cfs @ 12.09 hrs HW=59.17' (Free Discharge)↑ **2=Culvert** (Passes 3.80 cfs of 6.97 cfs potential flow)↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 3.80 cfs @ 2.03 fps)**Summary for Pond 242P: SUB INF.1C**

Inflow Area = 7.166 ac, 62.94% Impervious, Inflow Depth > 1.00" for 25-Year event
 Inflow = 8.44 cfs @ 12.09 hrs, Volume= 0.595 af
 Outflow = 1.28 cfs @ 11.70 hrs, Volume= 0.594 af, Atten= 85%, Lag= 0.0 min
 Discarded = 1.28 cfs @ 11.70 hrs, Volume= 0.594 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.38' @ 12.65 hrs Surf.Area= 3,692 sf Storage= 8,189 cf

Plug-Flow detention time= 46.7 min calculated for 0.592 af (100% of inflow)

Center-of-Mass det. time= 46.4 min (834.3 - 787.9)

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Type III 24-hr 25-Year Rainfall=6.16"

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Volume	Invert	Avail.Storage	Storage Description
#1A	47.50'	1,359 cf	26.00'W x 142.00'L x 5.17'H Field A 19,088 cf Overall - 15,691 cf Embedded = 3,396 cf x 40.0% Voids
#2A	48.00'	12,000 cf	Shea Leaching Chamber 8x14x4.7 x 30 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 30 Chambers in 3 Rows
		13,359 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	51.70'	15.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.28 cfs @ 11.70 hrs HW=47.55' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 1.28 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=47.50' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 244P: SUB INF. 1A**

Inflow Area = 4.558 ac, 68.27% Impervious, Inflow Depth > 0.14" for 25-Year event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.42 cfs @ 12.05 hrs, Volume= 0.052 af, Atten= 44%, Lag= 0.0 min
 Discarded = 0.42 cfs @ 12.05 hrs, Volume= 0.052 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 47.95' @ 12.22 hrs Surf.Area= 1,800 sf Storage= 182 cf

Plug-Flow detention time= 2.6 min calculated for 0.052 af (100% of inflow)
 Center-of-Mass det. time= 2.4 min (770.8 - 768.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	793 cf	18.00'W x 100.00'L x 5.17'H Field A 9,306 cf Overall - 7,323 cf Embedded = 1,983 cf x 40.0% Voids
#2A	48.20'	5,600 cf	Shea Leaching Chamber 8x14x4.7 x 14 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 14 Chambers in 2 Rows
		6,393 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	10.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	8.0" Horiz. Orifice/Grate C= 0.600

Limited to weir flow at low heads

Discarded OutFlow Max=0.42 cfs @ 12.05 hrs HW=47.79' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.42 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 245P: SUB ONF. 1B

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 1.12" for 25-Year event
 Inflow = 5.98 cfs @ 12.09 hrs, Volume= 0.411 af
 Outflow = 1.30 cfs @ 11.80 hrs, Volume= 0.411 af, Atten= 78%, Lag= 0.0 min
 Discarded = 1.30 cfs @ 11.80 hrs, Volume= 0.411 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.84' @ 12.52 hrs Surf.Area= 1,872 sf Storage= 4,535 cf

Plug-Flow detention time= 20.4 min calculated for 0.411 af (100% of inflow)
 Center-of-Mass det. time= 20.3 min (798.9 - 778.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	733 cf	26.00'W x 72.00'L x 5.17'H Field A 9,678 cf Overall - 7,846 cf Embedded = 1,833 cf x 40.0% Voids
#2A	48.20'	6,000 cf	Shea Leaching Chamber 8x14x4.7 x 15 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 15 Chambers in 3 Rows
		6,733 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	30.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.30 cfs @ 11.80 hrs HW=47.79' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 1.30 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=47.70' (Free Discharge)

↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 246P: Sub. Inf. 3D

Inflow Area = 1.330 ac, 35.11% Impervious, Inflow Depth > 1.84" for 25-Year event
 Inflow = 2.83 cfs @ 12.10 hrs, Volume= 0.204 af
 Outflow = 0.89 cfs @ 12.48 hrs, Volume= 0.204 af, Atten= 68%, Lag= 22.6 min
 Discarded = 0.89 cfs @ 12.48 hrs, Volume= 0.204 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.11' @ 12.48 hrs Surf.Area= 2,352 sf Storage= 1,654 cf

Plug-Flow detention time= 10.3 min calculated for 0.204 af (100% of inflow)
 Center-of-Mass det. time= 10.2 min (822.5 - 812.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	2,121 cf	34.75'W x 67.70'L x 3.50'H Field A 8,234 cf Overall - 2,931 cf Embedded = 5,302 cf x 40.0% Voids
#2A	54.50'	2,931 cf	ADS_StormTech SC-740 b +Cap x 63 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 63 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
		5,052 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 42.30'
#2	Primary	57.00'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.89 cfs @ 12.48 hrs HW=55.11' (Free Discharge)
 ↑1=Exfiltration (Controls 0.89 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 248P: SUB.INF 3F

Inflow Area = 0.333 ac, 89.47% Impervious, Inflow Depth > 4.94" for 25-Year event
 Inflow = 2.18 cfs @ 12.00 hrs, Volume= 0.137 af
 Outflow = 0.45 cfs @ 11.70 hrs, Volume= 0.137 af, Atten= 79%, Lag= 0.0 min
 Discarded = 0.45 cfs @ 11.70 hrs, Volume= 0.137 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.51' @ 12.38 hrs Surf.Area= 1,296 sf Storage= 1,336 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 15.5 min (761.0 - 745.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	518 cf	18.00'W x 72.00'L x 4.17'H Field A 5,404 cf Overall - 4,110 cf Embedded = 1,294 cf x 40.0% Voids
#2A	54.50'	3,000 cf	Shea Leaching Chamber 8x14x3.7 x 10 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 10 Chambers in 2 Rows
		3,518 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.45 cfs @ 11.70 hrs HW=54.08' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.45 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 249P: SUB.INF 3E**

Inflow Area = 0.139 ac, 100.00% Impervious, Inflow Depth > 5.48" for 25-Year event
 Inflow = 0.96 cfs @ 12.00 hrs, Volume= 0.063 af
 Outflow = 0.27 cfs @ 11.75 hrs, Volume= 0.063 af, Atten= 71%, Lag= 0.0 min
 Discarded = 0.27 cfs @ 11.75 hrs, Volume= 0.063 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.89' @ 12.27 hrs Surf.Area= 792 sf Storage= 414 cf

Plug-Flow detention time= 6.9 min calculated for 0.063 af (100% of inflow)

Center-of-Mass det. time= 6.7 min (736.4 - 729.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	287 cf	18.00'W x 44.00'L x 3.17'H Field A 2,511 cf Overall - 1,794 cf Embedded = 716 cf x 40.0% Voids
#2A	55.50'	1,200 cf	Shea Leaching Chamber 8x14x2.7 x 6 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 6 Chambers in 2 Rows
		1,487 cf	Total Available Storage

Storage Group A created with Chamber Wizard

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Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.27 cfs @ 11.75 hrs HW=55.04' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.27 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=55.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 251P: Sub. Inf. 10**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 4.83" for 25-Year event
 Inflow = 5.58 cfs @ 12.09 hrs, Volume= 0.406 af
 Outflow = 5.55 cfs @ 12.10 hrs, Volume= 0.346 af, Atten= 1%, Lag= 0.9 min
 Discarded = 0.07 cfs @ 12.10 hrs, Volume= 0.068 af
 Primary = 5.48 cfs @ 12.10 hrs, Volume= 0.278 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.53' @ 12.10 hrs Surf.Area= 1,610 sf Storage= 3,129 cf

Plug-Flow detention time= 70.7 min calculated for 0.344 af (85% of inflow)
 Center-of-Mass det. time= 27.0 min (779.8 - 752.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	1,468 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,967 cf Embedded = 3,669 cf x 40.0% Voids
#2A	59.00'	1,967 cf	ADS StormTech SC-740 b +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
3,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 55.00'
#2	Primary	60.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.07 cfs @ 12.10 hrs HW=61.52' (Free Discharge)↑**1=Exfiltration** (Controls 0.07 cfs)**Primary OutFlow** Max=5.43 cfs @ 12.10 hrs HW=61.52' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Weir Controls 5.43 cfs @ 2.18 fps)

Summary for Link 59L: DP 1

Inflow Area = 8.749 ac, 31.63% Impervious, Inflow Depth > 1.47" for 25-Year event
Inflow = 7.18 cfs @ 12.30 hrs, Volume= 1.075 af
Primary = 7.18 cfs @ 12.30 hrs, Volume= 1.075 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 60L: DP 2

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 3.23" for 25-Year event
Inflow = 34.37 cfs @ 12.10 hrs, Volume= 1.920 af
Primary = 34.37 cfs @ 12.10 hrs, Volume= 1.920 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 235P : ILSF BASIN

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 188L: DP 3

Inflow Area = 14.503 ac, 39.16% Impervious, Inflow Depth > 2.55" for 25-Year event
Inflow = 20.55 cfs @ 12.32 hrs, Volume= 3.078 af
Primary = 20.55 cfs @ 12.32 hrs, Volume= 3.078 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 203L: 3A

Inflow Area = 15.797 ac, 45.37% Impervious, Inflow Depth > 0.05" for 25-Year event
Inflow = 0.24 cfs @ 12.48 hrs, Volume= 0.068 af
Primary = 0.24 cfs @ 12.48 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1S: P1A

Runoff = 1.47 cfs @ 12.09 hrs, Volume= 0.114 af, Depth> 7.94"
Routed to Pond 16P : CB 58

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
254	74	>75% Grass cover, Good, HSG C
1,384	98	Unconnected roofs, HSG C
5,863	98	Paved parking, HSG C
7,501	97	Weighted Average
254		3.39% Pervious Area
7,247		96.61% Impervious Area
1,384		19.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: P1B

Runoff = 3.18 cfs @ 12.09 hrs, Volume= 0.238 af, Depth> 7.50"
Routed to Pond 17P : CB 59

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,226	98	Unconnected roofs, HSG C
4,280	74	>75% Grass cover, Good, HSG C
7,078	98	Paved parking, HSG C
16,584	92	Weighted Average
4,280		25.81% Pervious Area
12,304		74.19% Impervious Area
5,226		42.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: P1C

Runoff = 1.14 cfs @ 12.09 hrs, Volume= 0.084 af, Depth> 7.18"
Routed to Pond 18P : CB 63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
1,616	98	Unconnected roofs, HSG C
2,173	74	>75% Grass cover, Good, HSG C
2,298	98	Paved parking, HSG C
6,087	89	Weighted Average
2,173		35.70% Pervious Area
3,914		64.30% Impervious Area
1,616		41.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 4S: P1D

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.041 af, Depth> 7.69"
 Routed to Pond 19P : CB 62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
512	74	>75% Grass cover, Good, HSG C
2,255	98	Paved parking, HSG C
2,767	94	Weighted Average
512		18.50% Pervious Area
2,255		81.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 5S: P1E

Runoff = 2.18 cfs @ 12.09 hrs, Volume= 0.161 af, Depth> 7.29"
 Routed to Pond 26P : CB 61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,900	74	>75% Grass cover, Good, HSG C
3,976	98	Unconnected roofs, HSG C
3,662	98	Paved parking, HSG C
11,538	90	Weighted Average
3,900		33.80% Pervious Area
7,638		66.20% Impervious Area
3,976		52.06% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: P1F

Runoff = 0.92 cfs @ 12.09 hrs, Volume= 0.068 af, Depth> 7.40"
 Routed to Pond 27P : CB 60

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,378	74	>75% Grass cover, Good, HSG C
429	98	Unconnected roofs, HSG C
3,010	98	Paved parking, HSG C
4,817	91	Weighted Average
1,378		28.61% Pervious Area
3,439		71.39% Impervious Area
429		12.47% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: P1G

Runoff = 1.08 cfs @ 12.09 hrs, Volume= 0.084 af, Depth> 8.00"
 Routed to Pond 22P : CB 56

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,511	98	Paved parking, HSG C
5,511		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 8S: P1H

Runoff = 2.66 cfs @ 12.09 hrs, Volume= 0.202 af, Depth> 7.69"
 Routed to Pond 23P : CB 57

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
2,554	74	>75% Grass cover, Good, HSG C
5,795	98	Unconnected roofs, HSG C
5,364	98	Paved parking, HSG C
13,713	94	Weighted Average
2,554		18.62% Pervious Area
11,159		81.38% Impervious Area
5,795		51.93% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: P1I

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 7.60"
 Routed to Pond 30P : CB 55

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
780	74	>75% Grass cover, Good, HSG C
2,836	98	Paved parking, HSG C
3,616	93	Weighted Average
780		21.57% Pervious Area
2,836		78.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 10S: P1J

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.030 af, Depth> 8.00"
 Routed to Pond 33P : CB 53

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,937	98	Paved parking, HSG C
1,937		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 11S: P1K

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af, Depth> 7.94"
Routed to Pond 31P : CB 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
61	74	>75% Grass cover, Good, HSG C
354	98	Unconnected roofs, HSG C
1,521	98	Paved parking, HSG C
1,936	97	Weighted Average
61		3.15% Pervious Area
1,875		96.85% Impervious Area
354		18.88% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 12S: P1L

Runoff = 1.89 cfs @ 12.09 hrs, Volume= 0.143 af, Depth> 7.60"
Routed to Pond 32P : CB 52

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,077	74	>75% Grass cover, Good, HSG C
2,390	98	Unconnected roofs, HSG C
5,354	98	Paved parking, HSG C
9,821	93	Weighted Average
2,077		21.15% Pervious Area
7,744		78.85% Impervious Area
2,390		30.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: P1M

Runoff = 1.71 cfs @ 12.09 hrs, Volume= 0.132 af, Depth> 7.94"
Routed to Pond 36P : CB 54

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
476	74	>75% Grass cover, Good, HSG C
569	98	Unconnected roofs, HSG C
7,654	98	Paved parking, HSG C
8,699	97	Weighted Average
476		5.47% Pervious Area
8,223		94.53% Impervious Area
569		6.92% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: P1N

Runoff = 2.25 cfs @ 12.09 hrs, Volume= 0.154 af, Depth> 5.42"
Routed to Pond 15P : Det. Basin 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
586	98		Unconnected roofs, HSG C
14,279	74		>75% Grass cover, Good, HSG C
14,865	75	74	Weighted Average, UI Adjusted
14,279			96.06% Pervious Area
586			3.94% Impervious Area
586			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: P1P

Runoff = 1.50 cfs @ 12.09 hrs, Volume= 0.111 af, Depth> 7.29"
Routed to Pond 42P : CB 50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,926	98	Unconnected roofs, HSG C
2,623	74	>75% Grass cover, Good, HSG C
3,390	98	Paved parking, HSG C
7,939	90	Weighted Average
2,623		33.04% Pervious Area
5,316		66.96% Impervious Area
1,926		36.23% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: P1O

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 8.00"
 Routed to Pond 41P : CB 49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
978	98	Paved parking, HSG C
978		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 44S: P1R

Runoff = 2.68 cfs @ 12.09 hrs, Volume= 0.191 af, Depth> 6.50"
 Routed to Pond 46P : CB 48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
704	98	Unconnected pavement, HSG C
1,196	74	>75% Grass cover, Good, HSG C
955	98	Paved parking, HSG C
2,884	98	Unconnected roofs, HSG A
3,316	39	>75% Grass cover, Good, HSG A
6,279	98	Paved parking, HSG A
15,334	83	Weighted Average
4,512		29.42% Pervious Area
10,822		70.58% Impervious Area
3,588		33.15% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 45S: P1Q

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 0.080 af, Depth> 7.94"
 Routed to Pond 47P : CB 47

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
49	74	>75% Grass cover, Good, HSG C
49	98	Unconnected roofs, HSG C
1,120	98	Paved parking, HSG C
80	39	>75% Grass cover, Good, HSG A
442	98	Unconnected roofs, HSG A
3,507	98	Paved parking, HSG A
5,247	97	Weighted Average
129		2.46% Pervious Area
5,118		97.54% Impervious Area
491		9.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 50S: P1S

Runoff = 3.72 cfs @ 12.09 hrs, Volume= 0.258 af, Depth> 5.90"
 Routed to Pond 53P : CB 21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
6,743	98	Unconnected roofs, HSG A
7,903	39	>75% Grass cover, Good, HSG A
8,226	98	Paved parking, HSG A
22,872	78	Weighted Average
7,903		34.55% Pervious Area
14,969		65.45% Impervious Area
6,743		45.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 51S: P1T

Runoff = 1.29 cfs @ 12.10 hrs, Volume= 0.088 af, Depth> 3.28"
 Routed to Pond 52P : CB 20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
9,878	39	>75% Grass cover, Good, HSG A
4,085	98	Paved parking, HSG A
13,963	56	Weighted Average
9,878		70.74% Pervious Area
4,085		29.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 57S: (new Subcat)

Runoff = 0.58 cfs @ 12.23 hrs, Volume= 0.062 af, Depth> 1.39"
 Routed to Pond 56P : Inf. Basin 3G

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
1,317	98		Unconnected roofs, HSG A
4,111	30		Woods, Good, HSG A
18,083	39		>75% Grass cover, Good, HSG A
23,511	41	39	Weighted Average, UI Adjusted
22,194			94.40% Pervious Area
1,317			5.60% Impervious Area
1,317			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
0.5	37	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
13.0	87	Total			

Summary for Subcatchment 58S: P1AA

Runoff = 8.06 cfs @ 12.29 hrs, Volume= 0.841 af, Depth> 2.02"
 Routed to Link 59L : DP 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Adj	Description
1,776	98		Unconnected roofs, HSG C
20,134	70		Woods, Good, HSG C
38,005	74		>75% Grass cover, Good, HSG C
3,034	98		Unconnected roofs, HSG A
* 12,179	39		Pervious Pavement
84,195	30		Woods, Good, HSG A
57,506	39		>75% Grass cover, Good, HSG A
766	98		Unconnected pavement, HSG A
217,595	46	45	Weighted Average, UI Adjusted
212,019			97.44% Pervious Area
5,576			2.56% Impervious Area
5,576			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
1.9	80	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.4	130	Total			

Summary for Subcatchment 60S: P2C

Runoff = 1.24 cfs @ 12.09 hrs, Volume= 0.093 af, Depth> 7.50"
Routed to Pond 62P : CB 66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,086	98	Unconnected roofs, HSG C
1,688	74	>75% Grass cover, Good, HSG C
2,712	98	Paved parking, HSG C
6,486	92	Weighted Average
1,688		26.03% Pervious Area
4,798		73.97% Impervious Area
2,086		43.48% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 61S: P2D

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 7.78"
Routed to Pond 63P : CB 67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
190	74	>75% Grass cover, Good, HSG C
1,274	98	Paved parking, HSG C
1,464	95	Weighted Average
190		12.98% Pervious Area
1,274		87.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 62S: P2J

Runoff = 2.03 cfs @ 12.09 hrs, Volume= 0.151 af, Depth> 7.40"
 Routed to Pond 69P : CB 72

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,207	98	Unconnected roofs, HSG C
2,897	74	>75% Grass cover, Good, HSG C
4,571	98	Paved parking, HSG C
10,675	91	Weighted Average
2,897		27.14% Pervious Area
7,778		72.86% Impervious Area
3,207		41.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 63S: P2K

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.096 af, Depth> 7.50"
 Routed to Pond 70P : CB 73

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,542	74	>75% Grass cover, Good, HSG C
1,151	98	Unconnected roofs, HSG C
4,005	98	Paved parking, HSG C
6,698	92	Weighted Average
1,542		23.02% Pervious Area
5,156		76.98% Impervious Area
1,151		22.32% Unconnected

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Type III 24-hr 100-Year Rainfall=8.94"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 64S: P3L

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 7.29"
 Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
965	74	>75% Grass cover, Good, HSG C
1,920	98	Paved parking, HSG C
2,885	90	Weighted Average
965		33.45% Pervious Area
1,920		66.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 65S: P3M

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 0.076 af, Depth> 7.40"
 Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,636	74	>75% Grass cover, Good, HSG C
1,756	98	Unconnected roofs, HSG C
2,005	98	Paved parking, HSG C
5,397	91	Weighted Average
1,636		30.31% Pervious Area
3,761		69.69% Impervious Area
1,756		46.69% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 66S: P3N

Runoff = 1.47 cfs @ 12.09 hrs, Volume= 0.110 af, Depth> 7.40"
 Routed to Pond 83P : CB 86

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,108	74	>75% Grass cover, Good, HSG C
1,824	98	Unconnected roofs, HSG C
3,816	98	Paved parking, HSG C
7,748	91	Weighted Average
2,108		27.21% Pervious Area
5,640		72.79% Impervious Area
1,824		32.34% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 67S: P3O

Runoff = 1.59 cfs @ 12.09 hrs, Volume= 0.120 af, Depth> 7.60"
 Routed to Pond 84P : CB 87

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,792	74	>75% Grass cover, Good, HSG C
2,605	98	Unconnected roofs, HSG C
3,857	98	Paved parking, HSG C
8,254	93	Weighted Average
1,792		21.71% Pervious Area
6,462		78.29% Impervious Area
2,605		40.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 68S: P3P

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.059 af, Depth> 7.60"
 Routed to Pond 108P : CB 88

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
802	74	>75% Grass cover, Good, HSG C
3,268	98	Paved parking, HSG C
4,070	93	Weighted Average
802		19.71% Pervious Area
3,268		80.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 69S: P2E

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 0.104 af, Depth> 7.69"
Routed to Pond 66P : CB 68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,227	74	>75% Grass cover, Good, HSG C
1,596	98	Unconnected roofs, HSG C
4,265	98	Paved parking, HSG C
7,088	94	Weighted Average
1,227		17.31% Pervious Area
5,861		82.69% Impervious Area
1,596		27.23% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 70S: P2F

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 0.060 af, Depth> 8.00"
Routed to Pond 67P : CB 69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,932	98	Paved parking, HSG C
3,932		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 71S: P2A

Runoff = 2.07 cfs @ 12.09 hrs, Volume= 0.153 af, Depth> 7.29"
Routed to Pond 73P : CB 64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
2,800	98	Unconnected roofs, HSG C
3,751	74	>75% Grass cover, Good, HSG C
4,427	98	Paved parking, HSG C
10,978	90	Weighted Average
3,751		34.17% Pervious Area
7,227		65.83% Impervious Area
2,800		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 72S: P2B

Runoff = 1.43 cfs @ 12.09 hrs, Volume= 0.106 af, Depth> 7.29"
 Routed to Pond 74P : CB 65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,643	74	>75% Grass cover, Good, HSG C
4,920	98	Paved parking, HSG C
7,563	90	Weighted Average
2,643		34.95% Pervious Area
4,920		65.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 73S: P2G

Runoff = 1.56 cfs @ 12.09 hrs, Volume= 0.116 af, Depth> 7.40"
 Routed to Pond 76P : CB 70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,345	74	>75% Grass cover, Good, HSG C
1,348	98	Unconnected roofs, HSG C
122	98	Unconnected roofs, HSG A
34	39	>75% Grass cover, Good, HSG A
673	98	Paved parking, HSG A
3,701	98	Paved parking, HSG C
8,223	91	Weighted Average
2,379		28.93% Pervious Area
5,844		71.07% Impervious Area
1,470		25.15% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 74S: P2H

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.064 af, Depth> 7.78"
 Routed to Pond 77P : CB 71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
200	39	>75% Grass cover, Good, HSG A
610	98	Unconnected roofs, HSG A
3,458	98	Paved parking, HSG A
4,268	95	Weighted Average
200		4.69% Pervious Area
4,068		95.31% Impervious Area
610		15.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 75S: P3Q

Runoff = 1.91 cfs @ 12.09 hrs, Volume= 0.140 af, Depth> 7.18"
 Routed to Pond 107P : CB

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,641	74	>75% Grass cover, Good, HSG C
1,994	98	Unconnected roofs, HSG C
4,584	98	Paved parking, HSG C
10,219	89	Weighted Average
3,641		35.63% Pervious Area
6,578		64.37% Impervious Area
1,994		30.31% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 76S: P3R

Runoff = 2.61 cfs @ 12.09 hrs, Volume= 0.196 af, Depth> 7.50"
Routed to Pond 103P : CB 92

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,162	74	>75% Grass cover, Good, HSG C
4,063	98	Unconnected roofs, HSG C
6,424	98	Paved parking, HSG C
13,649	92	Weighted Average
3,162		23.17% Pervious Area
10,487		76.83% Impervious Area
4,063		38.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 77S: P3S

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.110 af, Depth> 7.40"
Routed to Pond 102P : CB 93

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,358	74	>75% Grass cover, Good, HSG C
702	98	Unconnected roofs, HSG C
4,697	98	Paved parking, HSG C
7,757	91	Weighted Average
2,358		30.40% Pervious Area
5,399		69.60% Impervious Area
702		13.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 78S: P1S

Runoff = 2.29 cfs @ 12.09 hrs, Volume= 0.165 af, Depth> 6.85"
Routed to Pond 112P : CB 45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
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Area (sf)	CN	Description
4,541	74	>75% Grass cover, Good, HSG C
2,275	98	Unconnected roofs, HSG C
693	39	>75% Grass cover, Good, HSG A
412	98	Paved parking, HSG A
4,709	98	Paved parking, HSG C
12,630	86	Weighted Average
5,234		41.44% Pervious Area
7,396		58.56% Impervious Area
2,275		30.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 79S: P1T

Runoff = 2.28 cfs @ 12.09 hrs, Volume= 0.170 af, Depth> 7.40"
 Routed to Pond 122P : CB 46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,187	74	>75% Grass cover, Good, HSG C
2,930	98	Unconnected roofs, HSG C
118	39	>75% Grass cover, Good, HSG A
214	98	Paved parking, HSG A
5,533	98	Paved parking, HSG C
11,982	91	Weighted Average
3,305		27.58% Pervious Area
8,677		72.42% Impervious Area
2,930		33.77% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 80S: P3KK

Runoff = 1.52 cfs @ 12.09 hrs, Volume= 0.108 af, Depth> 6.62"
 Routed to Pond 125P : CB 36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
1,989	39	>75% Grass cover, Good, HSG A
4,268	98	Unconnected roofs, HSG A
2,300	98	Paved parking, HSG A
8,557	84	Weighted Average
1,989		23.24% Pervious Area
6,568		76.76% Impervious Area
4,268		64.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 81S: P3LL

Runoff = 1.78 cfs @ 12.09 hrs, Volume= 0.128 af, Depth> 6.85"
 Routed to Pond 126P : CB 37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,037	39	>75% Grass cover, Good, HSG A
4,991	98	Unconnected roofs, HSG A
2,757	98	Paved parking, HSG A
9,785	86	Weighted Average
2,037		20.82% Pervious Area
7,748		79.18% Impervious Area
4,991		64.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 82S: P3SS

Runoff = 2.13 cfs @ 12.09 hrs, Volume= 0.148 af, Depth> 6.02"
 Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
4,180	39	>75% Grass cover, Good, HSG A
3,055	98	Unconnected roofs, HSG A
5,645	98	Paved parking, HSG A
12,880	79	Weighted Average
4,180		32.45% Pervious Area
8,700		67.55% Impervious Area
3,055		35.11% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 83S: P2I

Runoff = 2.29 cfs @ 12.09 hrs, Volume= 0.159 af, Depth> 6.02"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,861	39	>75% Grass cover, Good, HSG A
1,821	98	Unconnected roofs, HSG A
3,857	74	>75% Grass cover, Good, HSG C
597	98	Paved parking, HSG C
4,711	98	Paved parking, HSG A
13,847	79	Weighted Average
6,718		48.52% Pervious Area
7,129		51.48% Impervious Area
1,821		25.54% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 84S: P2AA

Runoff = 9.59 cfs @ 12.12 hrs, Volume= 0.704 af, Depth> 5.17"
 Routed to Link 60L : DP 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
2,224	98		Unconnected roofs, HSG C
1,231	98		Unconnected pavement, HSG C
37,322	70		Woods, Good, HSG C
27,161	74		>75% Grass cover, Good, HSG C
242	98		Unconnected pavement, HSG A
1,399	39		>75% Grass cover, Good, HSG A
1,546	98		Unconnected roofs, HSG A
71,125	73	72	Weighted Average, UI Adjusted
65,882			92.63% Pervious Area
5,243			7.37% Impervious Area
5,243			100.00% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	50	0.0200	0.15		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.4	68	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	57	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	26	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
8.4	201	Total			

Summary for Subcatchment 85S: (new Subcat)

Runoff = 4.49 cfs @ 12.09 hrs, Volume= 0.319 af, Depth> 6.50"
Routed to Pond 86P : Sub. Inf. 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,553	98	Roofs, HSG C
3,904	98	Unconnected pavement, HSG C
16,193	74	>75% Grass cover, Good, HSG C
25,650	83	Weighted Average
16,193		63.13% Pervious Area
9,457		36.87% Impervious Area
3,904		41.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 86S: P3TT

Runoff = 2.26 cfs @ 12.09 hrs, Volume= 0.157 af, Depth> 5.90"
Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
956	98	Unconnected roofs, HSG C
672	74	>75% Grass cover, Good, HSG C
4,346	39	>75% Grass cover, Good, HSG A
1,468	98	Unconnected roofs, HSG A
6,484	98	Paved parking, HSG A
13,926	78	Weighted Average
5,018		36.03% Pervious Area
8,908		63.97% Impervious Area
2,424		27.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 87S: P3A

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 7.60"
Routed to Pond 89P : CB 74

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
450	74	>75% Grass cover, Good, HSG C
1,823	98	Paved parking, HSG C
2,273	93	Weighted Average
450		19.80% Pervious Area
1,823		80.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 88S: P3B

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 0.065 af, Depth> 7.50"
Routed to Pond 90P : CB 75

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,048	74	>75% Grass cover, Good, HSG C
1,562	98	Unconnected roofs, HSG C
1,928	98	Paved parking, HSG C
4,538	92	Weighted Average
1,048		23.09% Pervious Area
3,490		76.91% Impervious Area
1,562		44.76% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 89S: P3AAA

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af, Depth> 6.50"
Routed to Pond 151P : CB 22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,761	39	>75% Grass cover, Good, HSG A
5,184	98	Paved parking, HSG A
6,945	83	Weighted Average
1,761		25.36% Pervious Area
5,184		74.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 90S: P3BBB

Runoff = 1.51 cfs @ 12.09 hrs, Volume= 0.105 af, Depth> 6.02"
Routed to Pond 152P : CB 23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,961	39	>75% Grass cover, Good, HSG A
2,084	98	Unconnected roofs, HSG A
4,096	98	Paved parking, HSG A
9,141	79	Weighted Average
2,961		32.39% Pervious Area
6,180		67.61% Impervious Area
2,084		33.72% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 91S: P3GGG

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af, Depth> 5.90"
Routed to Pond 165P : CB 19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
3,041	39	>75% Grass cover, Good, HSG A
3,271	98	Unconnected roofs, HSG A
2,810	98	Paved parking, HSG A
9,122	78	Weighted Average
3,041		33.34% Pervious Area
6,081		66.66% Impervious Area
3,271		53.79% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 92S: P3C

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 7.40"
 Routed to Pond 95P : CB 76

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,796	74	>75% Grass cover, Good, HSG C
348	98	Unconnected roofs, HSG C
3,984	98	Paved parking, HSG C
6,128	91	Weighted Average
1,796		29.31% Pervious Area
4,332		70.69% Impervious Area
348		8.03% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 93S: P3D

Runoff = 1.69 cfs @ 12.09 hrs, Volume= 0.126 af, Depth> 7.40"
 Routed to Pond 94P : CB 77

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,560	74	>75% Grass cover, Good, HSG C
1,771	98	Unconnected roofs, HSG C
4,562	98	Paved parking, HSG C
8,893	91	Weighted Average
2,560		28.79% Pervious Area
6,333		71.21% Impervious Area
1,771		27.96% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 94S: P3HHH

Runoff = 1.60 cfs @ 12.09 hrs, Volume= 0.114 af, Depth> 6.62"
 Routed to Pond 154P : CB 18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,098	39	>75% Grass cover, Good, HSG A
3,837	98	Unconnected roofs, HSG A
3,091	98	Paved parking, HSG A
9,026	84	Weighted Average
2,098		23.24% Pervious Area
6,928		76.76% Impervious Area
3,837		55.38% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 95S: P2X

Runoff = 1.27 cfs @ 12.09 hrs, Volume= 0.099 af, Depth> 8.00"
 Routed to Pond 79P : DMH 51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
6,460	98	Paved parking, HSG C
6,460		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 97S: P3G

Runoff = 3.19 cfs @ 12.09 hrs, Volume= 0.239 af, Depth> 7.50"
 Routed to Pond 100P : CB 80

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
4,471	74	>75% Grass cover, Good, HSG C
3,720	98	Unconnected roofs, HSG C
8,474	98	Paved parking, HSG C
16,665	92	Weighted Average
4,471		26.83% Pervious Area
12,194		73.17% Impervious Area
3,720		30.51% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 98S: P3H

Runoff = 2.12 cfs @ 12.09 hrs, Volume= 0.157 af, Depth> 7.29"
 Routed to Pond 99P : CB 81

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,581	74	>75% Grass cover, Good, HSG C
2,279	98	Unconnected roofs, HSG C
5,358	98	Paved parking, HSG C
11,218	90	Weighted Average
3,581		31.92% Pervious Area
7,637		68.08% Impervious Area
2,279		29.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: P3J

Runoff = 2.79 cfs @ 12.09 hrs, Volume= 0.205 af, Depth> 7.18"
 Routed to Pond 104P : CB 83

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,342	74	>75% Grass cover, Good, HSG C
2,771	98	Unconnected roofs, HSG C
6,812	98	Paved parking, HSG C
14,925	89	Weighted Average
5,342		35.79% Pervious Area
9,583		64.21% Impervious Area
2,771		28.92% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 103S: P3I

Runoff = 4.21 cfs @ 12.09 hrs, Volume= 0.315 af, Depth> 7.50"
 Routed to Pond 105P : CB 82

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,534	74	>75% Grass cover, Good, HSG C
6,057	98	Unconnected roofs, HSG C
10,372	98	Paved parking, HSG C
21,963	92	Weighted Average
5,534		25.20% Pervious Area
16,429		74.80% Impervious Area
6,057		36.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 107S: P3E

Runoff = 3.22 cfs @ 12.09 hrs, Volume= 0.237 af, Depth> 7.18"
 Routed to Pond 110P : CB 78

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
6,163	74	>75% Grass cover, Good, HSG C
2,724	98	Unconnected roofs, HSG C
8,355	98	Paved parking, HSG C
17,242	89	Weighted Average
6,163		35.74% Pervious Area
11,079		64.26% Impervious Area
2,724		24.59% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 108S: P3F

Runoff = 3.72 cfs @ 12.09 hrs, Volume= 0.273 af, Depth> 7.18"
Routed to Pond 109P : CB 79

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
7,073	74	>75% Grass cover, Good, HSG C
5,397	98	Unconnected roofs, HSG C
7,421	98	Paved parking, HSG C
19,891	89	Weighted Average
7,073		35.56% Pervious Area
12,818		64.44% Impervious Area
5,397		42.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 109S: P3T

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 0.072 af, Depth> 7.69"
Routed to Pond 116P : CB 90

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
773	74	>75% Grass cover, Good, HSG C
4,122	98	Paved parking, HSG C
4,895	94	Weighted Average
773		15.79% Pervious Area
4,122		84.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 110S: P3U

Runoff = 2.30 cfs @ 12.09 hrs, Volume= 0.172 af, Depth> 7.50"
Routed to Pond 115P : CB 91

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
2,921	74	>75% Grass cover, Good, HSG C
6,099	98	Unconnected roofs, HSG C
2,977	98	Paved parking, HSG C
11,997	92	Weighted Average
2,921		24.35% Pervious Area
9,076		75.65% Impervious Area
6,099		67.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 111S: P3V

Runoff = 2.40 cfs @ 12.09 hrs, Volume= 0.181 af, Depth> 7.60"
 Routed to Pond 114P : CB 94

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,412	74	>75% Grass cover, Good, HSG C
5,977	98	Unconnected roofs, HSG C
4,046	98	Paved parking, HSG C
12,435	93	Weighted Average
2,412		19.40% Pervious Area
10,023		80.60% Impervious Area
5,977		59.63% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 112S: P3W

Runoff = 1.61 cfs @ 12.09 hrs, Volume= 0.124 af, Depth> 7.86"
 Routed to Pond 113P : CB 95

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
719	74	>75% Grass cover, Good, HSG C
7,508	98	Paved parking, HSG C
8,227	96	Weighted Average
719		8.74% Pervious Area
7,508		91.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 125S: P3EE

Runoff = 2.71 cfs @ 12.09 hrs, Volume= 0.183 af, Depth> 4.10"
Routed to Pond 132P : CB 33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
13,700	39	>75% Grass cover, Good, HSG A
9,600	98	Paved parking, HSG A
23,300	63	Weighted Average
13,700		58.80% Pervious Area
9,600		41.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 126S: P3FF

Runoff = 1.61 cfs @ 12.09 hrs, Volume= 0.109 af, Depth> 5.06"
Routed to Pond 129P : CB 34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,177	39	>75% Grass cover, Good, HSG A
4,336	98	Unconnected roofs, HSG A
1,799	98	Paved parking, HSG A
11,312	71	Weighted Average
5,177		45.77% Pervious Area
6,135		54.23% Impervious Area
4,336		70.68% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 128S: P3HH

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 3.99"
Routed to Pond 131P : CB 35

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
5,501	39	>75% Grass cover, Good, HSG A
2,801	98	Unconnected roofs, HSG A
824	98	Paved parking, HSG A
9,126	62	Weighted Average
5,501		60.28% Pervious Area
3,625		39.72% Impervious Area
2,801		77.27% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 129S: P3MM

Runoff = 1.27 cfs @ 12.09 hrs, Volume= 0.088 af, Depth> 5.90"
 Routed to Pond 136P : CB 38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,648	39	>75% Grass cover, Good, HSG A
2,583	98	Unconnected roofs, HSG A
2,610	98	Paved parking, HSG A
7,841	78	Weighted Average
2,648		33.77% Pervious Area
5,193		66.23% Impervious Area
2,583		49.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 130S: P3NN

Runoff = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 6.38"
 Routed to Pond 138P : CB 39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
1,726	39	>75% Grass cover, Good, HSG A
1,686	98	Unconnected roofs, HSG A
2,883	98	Paved parking, HSG A
6,295	82	Weighted Average
1,726		27.42% Pervious Area
4,569		72.58% Impervious Area
1,686		36.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 136S: P3II

Runoff = 1.98 cfs @ 12.09 hrs, Volume= 0.143 af, Depth> 6.85"
 Routed to Pond 137P : CB 44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,148	39	>75% Grass cover, Good, HSG A
4,052	98	Unconnected roofs, HSG A
4,700	98	Paved parking, HSG A
10,900	86	Weighted Average
2,148		19.71% Pervious Area
8,752		80.29% Impervious Area
4,052		46.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 138S: P3JJ

Runoff = 0.51 cfs @ 12.13 hrs, Volume= 0.044 af, Depth> 1.60"
 Routed to Pond 246P : Sub. Inf. 3D

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
989	98		Unconnected roofs, HSG A
13,225	39		>75% Grass cover, Good, HSG A
14,214	43	41	Weighted Average, UI Adjusted
13,225			93.04% Pervious Area
989			6.96% Impervious Area
989			100.00% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 140S: P300

Runoff = 2.90 cfs @ 12.09 hrs, Volume= 0.201 af, Depth> 5.90"
Routed to Pond 142P : CB 40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
6,065	39	>75% Grass cover, Good, HSG A
5,813	98	Unconnected roofs, HSG A
5,951	98	Paved parking, HSG A
17,829	78	Weighted Average
6,065		34.02% Pervious Area
11,764		65.98% Impervious Area
5,813		49.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 141S: P3PP

Runoff = 4.08 cfs @ 12.09 hrs, Volume= 0.284 af, Depth> 5.90"
Routed to Pond 143P : CB 41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
8,502	39	>75% Grass cover, Good, HSG A
8,019	98	Unconnected roofs, HSG A
8,610	98	Paved parking, HSG A
25,131	78	Weighted Average
8,502		33.83% Pervious Area
16,629		66.17% Impervious Area
8,019		48.22% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment 142S: P3UU

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.041 af, Depth> 6.38"
 Routed to Pond 147P : CB 28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
915	39	>75% Grass cover, Good, HSG A
2,416	98	Paved parking, HSG A
3,331	82	Weighted Average
915		27.47% Pervious Area
2,416		72.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 143S: P3VV

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.043 af, Depth> 6.50"
 Routed to Pond 149P : CB 29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
906	39	>75% Grass cover, Good, HSG A
2,555	98	Paved parking, HSG A
3,461	83	Weighted Average
906		26.18% Pervious Area
2,555		73.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 147S: P3QQ

Runoff = 1.55 cfs @ 12.09 hrs, Volume= 0.112 af, Depth> 6.85"
 Routed to Pond 148P : CB 43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
1,691	39	>75% Grass cover, Good, HSG A
2,319	98	Unconnected roofs, HSG A
4,534	98	Paved parking, HSG A
8,544	86	Weighted Average
1,691		19.79% Pervious Area
6,853		80.21% Impervious Area
2,319		33.84% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 149S: P3RR

Runoff = 0.31 cfs @ 12.13 hrs, Volume= 0.026 af, Depth> 1.71"
 Routed to Pond 240P : Sub. Inf. 3B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
803	98		Unconnected roofs, HSG A
7,150	39		>75% Grass cover, Good, HSG A
7,953	45	42	Weighted Average, UI Adjusted
7,150			89.90% Pervious Area
803			10.10% Impervious Area
803			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"

Summary for Subcatchment 151S: P3ZZ

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af, Depth> 6.85"
 Routed to Pond 159P : CB 25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,297	39	>75% Grass cover, Good, HSG A
5,062	98	Paved parking, HSG A
6,359	86	Weighted Average
1,297		20.40% Pervious Area
5,062		79.60% Impervious Area

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Type III 24-hr 100-Year Rainfall=8.94"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 152S: P3YY

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 6.26"
 Routed to Pond 158P : CB 24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,505	39	>75% Grass cover, Good, HSG A
3,584	98	Paved parking, HSG A
5,089	81	Weighted Average
1,505		29.57% Pervious Area
3,584		70.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 153S: P3WW

Runoff = 1.67 cfs @ 12.09 hrs, Volume= 0.119 af, Depth> 6.50"
 Routed to Pond 155P : CB 27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,428	39	>75% Grass cover, Good, HSG A
2,576	98	Unconnected roofs, HSG A
4,570	98	Paved parking, HSG A
9,574	83	Weighted Average
2,428		25.36% Pervious Area
7,146		74.64% Impervious Area
2,576		36.05% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 154S: P3XX

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 0.067 af, Depth> 7.50"
 Routed to Pond 156P : CB 26

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Type III 24-hr 100-Year Rainfall=8.94"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
467	39	>75% Grass cover, Good, HSG A
2,369	98	Unconnected roofs, HSG A
1,866	98	Paved parking, HSG A
4,702	92	Weighted Average
467		9.93% Pervious Area
4,235		90.07% Impervious Area
2,369		55.94% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 155S: P3CCC

Runoff = 2.12 cfs @ 12.09 hrs, Volume= 0.147 af, Depth> 5.66"
 Routed to Pond 163P : CB 14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
4,959	39	>75% Grass cover, Good, HSG A
1,047	98	Unconnected roofs, HSG A
7,531	98	Paved parking, HSG A
13,537	76	Weighted Average
4,959		36.63% Pervious Area
8,578		63.37% Impervious Area
1,047		12.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 156S: P3DDD

Runoff = 2.67 cfs @ 12.09 hrs, Volume= 0.184 af, Depth> 5.66"
 Routed to Pond 162P : CB 15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
6,264	39	>75% Grass cover, Good, HSG A
3,815	98	Unconnected roofs, HSG A
6,922	98	Paved parking, HSG A
17,001	76	Weighted Average
6,264		36.84% Pervious Area
10,737		63.16% Impervious Area
3,815		35.53% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 165S: P3FFF

Runoff = 0.97 cfs @ 12.10 hrs, Volume= 0.065 af, Depth> 3.40"
Routed to Pond 168P : CB 10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
7,041	39	>75% Grass cover, Good, HSG A
3,025	98	Paved parking, HSG A
10,066	57	Weighted Average
7,041		69.95% Pervious Area
3,025		30.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 166S: P3EEE

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af, Depth> 5.90"
Routed to Pond 167P : CB 11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,114	39	>75% Grass cover, Good, HSG A
3,120	98	Paved parking, HSG A
2,866	98	Unconnected roofs, HSG A
9,100	78	Weighted Average
3,114		34.22% Pervious Area
5,986		65.78% Impervious Area
2,866		47.88% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 170S: P3JJJ

Runoff = 2.45 cfs @ 12.09 hrs, Volume= 0.175 af, Depth> 6.62"
 Routed to Pond 172P : CB 16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,334	39	>75% Grass cover, Good, HSG A
6,476	98	Unconnected roofs, HSG A
3,993	98	Paved parking, HSG A
13,803	84	Weighted Average
3,334		24.15% Pervious Area
10,469		75.85% Impervious Area
6,476		61.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 171S: P3III

Runoff = 0.96 cfs @ 12.09 hrs, Volume= 0.068 af, Depth> 6.26"
 Routed to Pond 173P : CB 17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,629	39	>75% Grass cover, Good, HSG A
1,823	98	Unconnected roofs, HSG A
2,201	98	Paved parking, HSG A
5,653	81	Weighted Average
1,629		28.82% Pervious Area
4,024		71.18% Impervious Area
1,823		45.30% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 175S: P3KKK

Runoff = 2.22 cfs @ 12.09 hrs, Volume= 0.154 af, Depth> 5.78"
Routed to Pond 177P : CB 13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
4,945	39	>75% Grass cover, Good, HSG A
3,545	98	Unconnected roofs, HSG A
5,414	98	Paved parking, HSG A
13,904	77	Weighted Average
4,945		35.57% Pervious Area
8,959		64.43% Impervious Area
3,545		39.57% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 176S: P3LLL

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 5.54"
Routed to Pond 178P : CB 12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,605	39	>75% Grass cover, Good, HSG A
958	98	Unconnected roofs, HSG A
3,077	98	Paved parking, HSG A
6,640	75	Weighted Average
2,605		39.23% Pervious Area
4,035		60.77% Impervious Area
958		23.74% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 182S: P3MMM

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 5.30"
Routed to Pond 61P : CB 8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
2,196	39	>75% Grass cover, Good, HSG A
413	98	Unconnected roofs, HSG A
2,502	98	Paved parking, HSG A
5,111	73	Weighted Average
2,196		42.97% Pervious Area
2,915		57.03% Impervious Area
413		14.17% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 183S: P3NNN

Runoff = 1.52 cfs @ 12.09 hrs, Volume= 0.105 af, Depth> 5.54"
 Routed to Pond 170P : CB 9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,796	39	>75% Grass cover, Good, HSG A
2,443	98	Unconnected roofs, HSG A
3,632	98	Paved parking, HSG A
9,871	75	Weighted Average
3,796		38.46% Pervious Area
6,075		61.54% Impervious Area
2,443		40.21% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 184S: P3000

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af, Depth> 5.30"
 Routed to Pond 176P : CB 6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,656	39	>75% Grass cover, Good, HSG A
1,177	98	Unconnected roofs, HSG A
3,814	98	Paved parking, HSG A
8,647	73	Weighted Average
3,656		42.28% Pervious Area
4,991		57.72% Impervious Area
1,177		23.58% Unconnected

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Type III 24-hr 100-Year Rainfall=8.94"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 185S: P3PPP

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 0.057 af, Depth> 6.50"
 Routed to Pond 182P : CB 7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,135	39	>75% Grass cover, Good, HSG A
1,267	98	Unconnected roofs, HSG A
2,170	98	Paved parking, HSG A
4,572	83	Weighted Average
1,135		24.83% Pervious Area
3,437		75.17% Impervious Area
1,267		36.86% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 186S: P3QQQ

Runoff = 0.96 cfs @ 12.09 hrs, Volume= 0.065 af, Depth> 4.94"
 Routed to Pond 188P : CB 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,125	39	>75% Grass cover, Good, HSG A
992	30	Woods, Good, HSG A
3,757	98	Paved parking, HSG A
6,874	70	Weighted Average
3,117		45.34% Pervious Area
3,757		54.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 187S: P3RRR

Runoff = 2.06 cfs @ 12.09 hrs, Volume= 0.144 af, Depth> 6.14"
 Routed to Pond 189P : CB 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,803	39	>75% Grass cover, Good, HSG A
2,556	98	Unconnected roofs, HSG A
5,935	98	Paved parking, HSG A
12,294	80	Weighted Average
3,803		30.93% Pervious Area
8,491		69.07% Impervious Area
2,556		30.10% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 189S: (new Subcat)

Runoff = 12.91 cfs @ 12.31 hrs, Volume= 1.310 af, Depth> 3.03"
 Routed to Link 188L : DP 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
56,652	30	Woods, Good, HSG A
56,569	70	Woods, Good, HSG C
2,509	98	Unconnected roofs, HSG C
1,351	98	Unconnected pavement, HSG C
3,066	98	Unconnected roofs, HSG A
1,335	98	Unconnected pavement, HSG A
49,779	74	>75% Grass cover, Good, HSG C
54,766	39	>75% Grass cover, Good, HSG A
226,027	54	Weighted Average
217,766		96.35% Pervious Area
8,261		3.65% Impervious Area
8,261		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	50	0.0100	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.3	272	0.0450	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.8	322	Total			

Summary for Subcatchment 190S: (new Subcat)

Runoff = 2.28 cfs @ 12.09 hrs, Volume= 0.168 af, Depth> 7.29"
Routed to Pond 191P : CB 42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,763	98	Unconnected roofs, HSG A
1,707	39	>75% Grass cover, Good, HSG A
6,608	98	Paved parking, HSG A
12,078	90	Weighted Average
1,707		14.13% Pervious Area
10,371		85.87% Impervious Area
3,763		36.28% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 191S: P3SSS

Runoff = 0.61 cfs @ 12.10 hrs, Volume= 0.042 af, Depth> 2.93"
Routed to Pond 193P : CB 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
1,068	39	>75% Grass cover, Good, HSG A
4,042	30	Woods, Good, HSG A
2,372	98	Paved parking, HSG A
7,482	53	Weighted Average
5,110		68.30% Pervious Area
2,372		31.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 192S: P3TTT

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af, Depth> 6.50"
Routed to Pond 194P : CB 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Description
1,044	39	>75% Grass cover, Good, HSG A
3,031	98	Paved parking, HSG A
4,075	83	Weighted Average
1,044		25.62% Pervious Area
3,031		74.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 195S: P3UUU

Runoff = 2.65 cfs @ 12.09 hrs, Volume= 0.192 af, Depth> 6.85"
 Routed to Pond 196P : CB 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
2,892	39	>75% Grass cover, Good, HSG A
4,558	98	Unconnected roofs, HSG A
7,174	98	Paved parking, HSG A
14,624	86	Weighted Average
2,892		19.78% Pervious Area
11,732		80.22% Impervious Area
4,558		38.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 198S: P3VVV

Runoff = 0.39 cfs @ 12.11 hrs, Volume= 0.033 af, Depth> 1.39"
 Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
12,434	39	>75% Grass cover, Good, HSG A
12,434		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 202S: P3GG

Runoff = 3.29 cfs @ 12.09 hrs, Volume= 0.222 af, Depth> 4.46"
 Routed to Pond 201P : Sub. Inf. 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
9,091	98	Unconnected roofs, HSG A
2,905	98	Unconnected pavement, HSG A
14,042	39	>75% Grass cover, Good, HSG A
26,038	66	Weighted Average
14,042		53.93% Pervious Area
11,996		46.07% Impervious Area
11,996		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 204S: (new Subcat)

Runoff = 2.58 cfs @ 12.17 hrs, Volume= 0.299 af, Depth> 1.00"
 Routed to Link 203L : 3A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Adj	Description
76,501	30		Woods, Good, HSG A
76,716	39		>75% Grass cover, Good, HSG A
1,878	98		Unconnected roofs, HSG A
1,671	98		Unconnected pavement, HSG A
156,766	36	35	Weighted Average, UI Adjusted
153,217			97.74% Pervious Area
3,549			2.26% Impervious Area
3,549			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
0.6	85	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	135	Total			

Summary for Subcatchment 205S: (new Subcat)

Runoff = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af, Depth> 5.78"
Routed to Pond 218P : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
4,257	98	Paved parking, HSG A
1,759	98	Unconnected roofs, HSG A
3,306	39	>75% Grass cover, Good, HSG A
9,322	77	Weighted Average
3,306		35.46% Pervious Area
6,016		64.54% Impervious Area
1,759		29.24% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 206S: (new Subcat)

Runoff = 0.48 cfs @ 12.11 hrs, Volume= 0.040 af, Depth> 1.39"
Routed to Pond 197P : Inf. Basin 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
15,098	39	>75% Grass cover, Good, HSG A
15,098		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 207S: (new Subcat)

Runoff = 0.49 cfs @ 12.27 hrs, Volume= 0.056 af, Depth> 1.39"
Routed to Pond 216P : CB 8A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

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Type III 24-hr 100-Year Rainfall=8.94"

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Area (sf)	CN	Adj	Description
1,937	98		Unconnected roofs, HSG A
1,504	98		Paved parking, HSG A
16,314	30		Woods, Good, HSG A
1,313	39		>75% Grass cover, Good, HSG A
21,068	42	39	Weighted Average, UI Adjusted
17,627			83.67% Pervious Area
3,441			16.33% Impervious Area
1,937			56.29% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	50	0.0250	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
4.2	106	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.7	156	Total			

Summary for Subcatchment 216S: (new Subcat)

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 0.084 af, Depth> 6.73"
Routed to Pond 215P : CB 5A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
3,069	98	Paved parking, HSG A
1,946	98	Unconnected roofs, HSG A
1,471	39	>75% Grass cover, Good, HSG A
6,486	85	Weighted Average
1,471		22.68% Pervious Area
5,015		77.32% Impervious Area
1,946		38.80% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 240S: P3EE2

Runoff = 1.40 cfs @ 12.00 hrs, Volume= 0.093 af, Depth> 8.00"
Routed to Pond 249P : SUB.INF 3E

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
6,060	98	Roofs, HSG A
6,060		100.00% Impervious Area

Summary for Subcatchment 249S: P3EE1

Runoff = 3.25 cfs @ 12.00 hrs, Volume= 0.208 af, Depth> 7.51"
Routed to Pond 248P : SUB.INF 3F

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
7,986	98	Roofs, HSG A
4,978	98	Paved parking, HSG A
1,525	39	>75% Grass cover, Good, HSG A
14,489	92	Weighted Average
1,525		10.53% Pervious Area
12,964		89.47% Impervious Area

Summary for Subcatchment EA1: Emerg, Access Culvrt

Runoff = 2.59 cfs @ 12.00 hrs, Volume= 0.151 af, Depth> 5.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-Year Rainfall=8.94"

Area (sf)	CN	Description
7,168	39	>75% Grass cover, Good, HSG A
8,378	98	Paved parking, HSG A
15,546	71	Weighted Average
7,168		46.11% Pervious Area
8,378		53.89% Impervious Area

Summary for Reach 204R: WATER QUALTY SWALW

Inflow Area = 0.705 ac, 57.45% Impervious, Inflow Depth > 5.14" for 100-Year event
Inflow = 4.34 cfs @ 12.09 hrs, Volume= 0.302 af
Outflow = 3.74 cfs @ 12.21 hrs, Volume= 0.300 af, Atten= 14%, Lag= 7.1 min
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.45 fps, Min. Travel Time= 4.2 min
Avg. Velocity= 0.16 fps, Avg. Travel Time= 12.1 min

Peak Storage= 969 cf @ 12.14 hrs
Average Depth at Peak Storage= 1.14' , Surface Width= 10.82'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 59.02 cfs

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4.00' x 4.00' deep channel, n= 0.080 Earth, long dense weeds

Side Slope Z-value= 3.0 '/' Top Width= 28.00'

Length= 115.0' Slope= 0.0009 '/'

Inlet Invert= 45.80', Outlet Invert= 45.70'

**Summary for Pond 15P: Det. Basin 5**

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 6.48" for 100-Year event
 Inflow = 15.99 cfs @ 12.10 hrs, Volume= 1.079 af
 Outflow = 8.45 cfs @ 12.25 hrs, Volume= 0.853 af, Atten= 47%, Lag= 8.9 min
 Primary = 8.45 cfs @ 12.25 hrs, Volume= 0.853 af
 Routed to Pond 212P : level spreader DB5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.12' @ 12.25 hrs Surf.Area= 8,280 sf Storage= 20,855 cf

Plug-Flow detention time= 139.6 min calculated for 0.850 af (79% of inflow)
 Center-of-Mass det. time= 90.0 min (859.0 - 769.1)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	28,519 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,169	0	0
53.00	6,098	5,634	5,634
54.00	7,097	6,598	12,231
55.00	8,158	7,628	19,859
56.00	9,163	8,661	28,519

Device	Routing	Invert	Outlet Devices
#1	Primary	51.70'	18.0" Round Culvert L= 53.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 51.70' / 51.50' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	1.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.35'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 1	54.70'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.43 cfs @ 12.25 hrs HW=55.12' (Free Discharge)

- 1=Culvert (Passes 8.43 cfs of 13.14 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 8.41 fps)
- 3=Orifice/Grate (Orifice Controls 1.17 cfs @ 5.94 fps)
- 4=Orifice/Grate (Weir Controls 7.13 cfs @ 2.12 fps)

Summary for Pond 16P: CB 58

Inflow Area = 0.172 ac, 96.61% Impervious, Inflow Depth > 7.94" for 100-Year event
 Inflow = 1.47 cfs @ 12.09 hrs, Volume= 0.114 af
 Outflow = 1.47 cfs @ 12.09 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.47 cfs @ 12.09 hrs, Volume= 0.114 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=62.89' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.43 cfs @ 2.94 fps)

Summary for Pond 17P: CB 59

Inflow Area = 0.381 ac, 74.19% Impervious, Inflow Depth > 7.50" for 100-Year event
 Inflow = 3.18 cfs @ 12.09 hrs, Volume= 0.238 af
 Outflow = 3.18 cfs @ 12.09 hrs, Volume= 0.238 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.18 cfs @ 12.09 hrs, Volume= 0.238 af
 Routed to Pond 20P : DMH 43

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.73' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 62.00' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.09 cfs @ 12.09 hrs HW=63.67' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 3.09 cfs @ 3.94 fps)

Summary for Pond 18P: CB 63

Inflow Area = 0.140 ac, 64.30% Impervious, Inflow Depth > 7.18" for 100-Year event
 Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.084 af
 Outflow = 1.14 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.14 cfs @ 12.09 hrs, Volume= 0.084 af
 Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 64.57' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.11 cfs @ 12.09 hrs HW=64.56' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.11 cfs @ 2.75 fps)**Summary for Pond 19P: CB 62**

Inflow Area = 0.064 ac, 81.50% Impervious, Inflow Depth > 7.69" for 100-Year event
Inflow = 0.54 cfs @ 12.09 hrs, Volume= 0.041 af
Outflow = 0.54 cfs @ 12.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 0.54 cfs @ 12.09 hrs, Volume= 0.041 af
Routed to Pond 25P : DMH 45

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.88'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.88' / 63.78' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=64.32' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.52 cfs @ 2.34 fps)**Summary for Pond 20P: DMH 43**

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 7.64" for 100-Year event
Inflow = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af
Outflow = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af, Atten= 0%, Lag= 0.0 min
Primary = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af
Routed to Pond 21P : DMH 42

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.90'	12.0" Round Culvert L= 66.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.90' / 61.57' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.53 cfs @ 12.09 hrs HW=64.70' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.53 cfs @ 5.77 fps)

Summary for Pond 21P: DMH 42

Inflow Area = 0.553 ac, 81.18% Impervious, Inflow Depth > 7.64" for 100-Year event
 Inflow = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af
 Outflow = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.65 cfs @ 12.09 hrs, Volume= 0.352 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.39' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	12.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.47' / 61.10' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.53 cfs @ 12.09 hrs HW=64.27' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 4.53 cfs @ 5.77 fps)

Summary for Pond 22P: CB 56

Inflow Area = 0.127 ac, 100.00% Impervious, Inflow Depth > 8.00" for 100-Year event
 Inflow = 1.08 cfs @ 12.09 hrs, Volume= 0.084 af
 Outflow = 1.08 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.08 cfs @ 12.09 hrs, Volume= 0.084 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.86' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.06 cfs @ 12.09 hrs HW=61.85' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.06 cfs @ 2.76 fps)

Summary for Pond 23P: CB 57

Inflow Area = 0.315 ac, 81.38% Impervious, Inflow Depth > 7.69" for 100-Year event
 Inflow = 2.66 cfs @ 12.09 hrs, Volume= 0.202 af
 Outflow = 2.66 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.66 cfs @ 12.09 hrs, Volume= 0.202 af
 Routed to Pond 24P : DMH 41

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 62.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.20'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.20' / 61.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.59 cfs @ 12.09 hrs HW=62.45' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.59 cfs @ 3.30 fps)**Summary for Pond 24P: DMH 41**

Inflow Area = 0.994 ac, 83.63% Impervious, Inflow Depth > 7.70" for 100-Year event
Inflow = 8.39 cfs @ 12.09 hrs, Volume= 0.638 af
Outflow = 8.39 cfs @ 12.09 hrs, Volume= 0.638 af, Atten= 0%, Lag= 0.0 min
Primary = 8.39 cfs @ 12.09 hrs, Volume= 0.638 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.31' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	18.0" Round Culvert L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 59.23' S= 0.0322 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.17 cfs @ 12.09 hrs HW=63.23' (Free Discharge)↑**1=Culvert** (Inlet Controls 8.17 cfs @ 4.63 fps)**Summary for Pond 25P: DMH 45**

Inflow Area = 0.203 ac, 69.67% Impervious, Inflow Depth > 7.34" for 100-Year event
Inflow = 1.68 cfs @ 12.09 hrs, Volume= 0.124 af
Outflow = 1.68 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 1.68 cfs @ 12.09 hrs, Volume= 0.124 af
Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.50' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	63.68'	12.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 63.68' / 62.20' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.63 cfs @ 12.09 hrs HW=64.48' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.63 cfs @ 2.41 fps)

Summary for Pond 26P: CB 61

Inflow Area = 0.265 ac, 66.20% Impervious, Inflow Depth > 7.29" for 100-Year event
 Inflow = 2.18 cfs @ 12.09 hrs, Volume= 0.161 af
 Outflow = 2.18 cfs @ 12.09 hrs, Volume= 0.161 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.18 cfs @ 12.09 hrs, Volume= 0.161 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.37' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0067 ' S= 0.0067 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.12 cfs @ 12.09 hrs HW=63.35' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.12 cfs @ 3.21 fps)

Summary for Pond 27P: CB 60

Inflow Area = 0.111 ac, 71.39% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 0.92 cfs @ 12.09 hrs, Volume= 0.068 af
 Outflow = 0.92 cfs @ 12.09 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.92 cfs @ 12.09 hrs, Volume= 0.068 af
 Routed to Pond 28P : DMH 44

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.91' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.30'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.30' / 62.20' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.09 hrs HW=62.90' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.89 cfs @ 2.61 fps)

Summary for Pond 28P: DMH 44

Inflow Area = 0.579 ac, 68.41% Impervious, Inflow Depth > 7.33" for 100-Year event
 Inflow = 4.77 cfs @ 12.09 hrs, Volume= 0.354 af
 Outflow = 4.77 cfs @ 12.09 hrs, Volume= 0.354 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.77 cfs @ 12.09 hrs, Volume= 0.354 af
 Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 65.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.10'	12.0" Round Culvert L= 85.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.10' / 59.23' S= 0.0338 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.65 cfs @ 12.09 hrs HW=65.02' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.65 cfs @ 5.91 fps)**Summary for Pond 29P: DMH 40**

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 7.57" for 100-Year event
Inflow = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af
Outflow = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af, Atten= 0%, Lag= 0.0 min
Primary = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af
Routed to Pond 38P : DMH 39

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.13'	24.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.13' / 58.83' S= 0.0120 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.50 cfs @ 12.09 hrs HW=61.41' (Free Discharge)↑**1=Culvert** (Inlet Controls 13.50 cfs @ 4.30 fps)**Summary for Pond 30P: CB 55**

Inflow Area = 0.083 ac, 78.43% Impervious, Inflow Depth > 7.60" for 100-Year event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.70 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.09 hrs, Volume= 0.053 af
Routed to Pond 29P : DMH 40

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.23'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.23' / 59.23' S= 0.0667 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=60.70' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.68 cfs @ 1.85 fps)

Summary for Pond 31P: CB 51

Inflow Area = 0.044 ac, 96.85% Impervious, Inflow Depth > 7.94" for 100-Year event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.029 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=60.66' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.37 cfs @ 2.17 fps)

Summary for Pond 32P: CB 52

Inflow Area = 0.225 ac, 78.85% Impervious, Inflow Depth > 7.60" for 100-Year event
 Inflow = 1.89 cfs @ 12.09 hrs, Volume= 0.143 af
 Outflow = 1.89 cfs @ 12.09 hrs, Volume= 0.143 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.89 cfs @ 12.09 hrs, Volume= 0.143 af
 Routed to Pond 34P : DMH 36

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.25' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.30'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.30' / 60.20' S= 0.0083 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.84 cfs @ 12.09 hrs HW=61.24' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.84 cfs @ 3.13 fps)

Summary for Pond 33P: CB 53

Inflow Area = 0.044 ac, 100.00% Impervious, Inflow Depth > 8.00" for 100-Year event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 0.030 af
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 0.030 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.11' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.76'	12.0" Round Culvert L= 9.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.76' / 59.76' S= 0.1111 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=61.10' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.37 cfs @ 1.57 fps)

Summary for Pond 34P: DMH 36

Inflow Area = 0.270 ac, 81.82% Impervious, Inflow Depth > 7.66" for 100-Year event
 Inflow = 2.27 cfs @ 12.09 hrs, Volume= 0.172 af
 Outflow = 2.27 cfs @ 12.09 hrs, Volume= 0.172 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.27 cfs @ 12.09 hrs, Volume= 0.172 af
 Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.18' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 67.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.76' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.21 cfs @ 12.09 hrs HW=61.15' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.21 cfs @ 3.32 fps)

Summary for Pond 35P: DMH 37

Inflow Area = 0.244 ac, 95.52% Impervious, Inflow Depth > 7.95" for 100-Year event
 Inflow = 2.09 cfs @ 12.09 hrs, Volume= 0.162 af
 Outflow = 2.09 cfs @ 12.09 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.09 cfs @ 12.09 hrs, Volume= 0.162 af
 Routed to Pond 231P : Sub inf. 4A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.66'	12.0" Round Culvert L= 52.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.66' / 59.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.03 cfs @ 12.09 hrs HW=60.66' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.03 cfs @ 3.22 fps)

Summary for Pond 36P: CB 54

Inflow Area = 0.200 ac, 94.53% Impervious, Inflow Depth > 7.94" for 100-Year event
 Inflow = 1.71 cfs @ 12.09 hrs, Volume= 0.132 af
 Outflow = 1.71 cfs @ 12.09 hrs, Volume= 0.132 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.71 cfs @ 12.09 hrs, Volume= 0.132 af
 Routed to Pond 35P : DMH 37

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.20'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.20' / 59.40' S= 0.1143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.66 cfs @ 12.09 hrs HW=61.01' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.66 cfs @ 2.43 fps)

Summary for Pond 38P: DMH 39

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 7.57" for 100-Year event
 Inflow = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af
 Outflow = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af, Atten= 0%, Lag= 0.0 min
 Primary = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af
 Routed to Pond 223P : Sub. Inf. 4B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.06' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.73'	24.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.73' / 58.60' S= 0.0260 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.51 cfs @ 12.09 hrs HW=61.01' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 13.51 cfs @ 4.30 fps)

Summary for Pond 41P: CB 49

Inflow Area = 0.022 ac, 100.00% Impervious, Inflow Depth > 8.00" for 100-Year event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af
 Outflow = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.19 cfs @ 12.09 hrs, Volume= 0.015 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 58.74' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=58.74' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.19 cfs @ 1.97 fps)**Summary for Pond 42P: CB 50**

Inflow Area = 0.182 ac, 66.96% Impervious, Inflow Depth > 7.29" for 100-Year event
Inflow = 1.50 cfs @ 12.09 hrs, Volume= 0.111 af
Outflow = 1.50 cfs @ 12.09 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
Primary = 1.50 cfs @ 12.09 hrs, Volume= 0.111 af
Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.30' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.50' / 58.40' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.46 cfs @ 12.09 hrs HW=59.29' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.46 cfs @ 3.01 fps)**Summary for Pond 43P: DMH 35**

Inflow Area = 0.719 ac, 83.27% Impervious, Inflow Depth > 5.12" for 100-Year event
Inflow = 4.66 cfs @ 12.12 hrs, Volume= 0.307 af
Outflow = 4.66 cfs @ 12.12 hrs, Volume= 0.307 af, Atten= 0%, Lag= 0.0 min
Primary = 4.66 cfs @ 12.12 hrs, Volume= 0.307 af
Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.23' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.30' / 54.70' S= 0.0414 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.57 cfs @ 12.12 hrs HW=61.14' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.57 cfs @ 5.82 fps)

Summary for Pond 46P: CB 48

Inflow Area = 0.352 ac, 70.58% Impervious, Inflow Depth > 6.50" for 100-Year event
 Inflow = 2.68 cfs @ 12.09 hrs, Volume= 0.191 af
 Outflow = 2.68 cfs @ 12.09 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.68 cfs @ 12.09 hrs, Volume= 0.191 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.10' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.62 cfs @ 12.09 hrs HW=56.07' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.62 cfs @ 3.33 fps)

Summary for Pond 47P: CB 47

Inflow Area = 0.120 ac, 97.54% Impervious, Inflow Depth > 7.94" for 100-Year event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.080 af
 Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.080 af
 Routed to Pond 48P : DMH 33

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.80'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.80' / 54.70' S= 0.0091 ' S= 0.0091 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=55.44' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.00 cfs @ 2.72 fps)

Summary for Pond 48P: DMH 33

Inflow Area = 0.472 ac, 77.45% Impervious, Inflow Depth > 6.87" for 100-Year event
 Inflow = 3.71 cfs @ 12.09 hrs, Volume= 0.270 af
 Outflow = 3.71 cfs @ 12.09 hrs, Volume= 0.270 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.71 cfs @ 12.09 hrs, Volume= 0.270 af
 Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 56.64' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.62 cfs @ 12.09 hrs HW=56.57' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.62 cfs @ 4.61 fps)**Summary for Pond 49P: Sub. Inf. 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 6.23" for 100-Year event
 Inflow = 12.83 cfs @ 12.10 hrs, Volume= 0.912 af
 Outflow = 11.36 cfs @ 12.14 hrs, Volume= 0.791 af, Atten= 11%, Lag= 2.7 min
 Discarded = 0.13 cfs @ 12.15 hrs, Volume= 0.120 af
 Primary = 11.23 cfs @ 12.14 hrs, Volume= 0.671 af
 Routed to Pond 211P : level spreader 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.04' @ 12.15 hrs Surf.Area= 3,024 sf Storage= 8,377 cf

Plug-Flow detention time= 69.8 min calculated for 0.788 af (86% of inflow)
 Center-of-Mass det. time= 30.6 min (790.8 - 760.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	934 cf	42.00'W x 72.00'L x 4.17'H Field A 12,610 cf Overall - 10,276 cf Embedded = 2,334 cf x 40.0% Voids
#2A	55.00'	7,500 cf	Shea Leaching Chamber 8x14x3.7 x 25 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 25 Chambers in 5 Rows
8,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	54.50'	18.0" Round Culvert L= 76.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.50' / 51.50' S= 0.0395 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#3	Device 2	56.70'	6.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#4	Device 2	57.15'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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Discarded OutFlow Max=0.13 cfs @ 12.15 hrs HW=58.03' (Free Discharge)↑ **1=Exfiltration** (Controls 0.13 cfs)**Primary OutFlow** Max=11.18 cfs @ 12.14 hrs HW=58.02' (Free Discharge)↑ **2=Culvert** (Inlet Controls 11.18 cfs @ 6.33 fps)↑ **3=Orifice/Grate** (Passes < 1.96 cfs potential flow)↑ **4=Broad-Crested Rectangular Weir** (Passes < 10.77 cfs potential flow)**Summary for Pond 52P: CB 20**

Inflow Area = 0.321 ac, 29.26% Impervious, Inflow Depth > 3.28" for 100-Year event
 Inflow = 1.29 cfs @ 12.10 hrs, Volume= 0.088 af
 Outflow = 1.29 cfs @ 12.10 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.29 cfs @ 12.10 hrs, Volume= 0.088 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.80' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.10 hrs HW=51.80' (Free Discharge)↑ **1=Culvert** (Barrel Controls 1.28 cfs @ 3.07 fps)**Summary for Pond 53P: CB 21**

Inflow Area = 0.525 ac, 65.45% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 3.72 cfs @ 12.09 hrs, Volume= 0.258 af
 Outflow = 3.72 cfs @ 12.09 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.72 cfs @ 12.09 hrs, Volume= 0.258 af
 Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.10'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.10' / 50.90' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.63 cfs @ 12.09 hrs HW=53.08' (Free Discharge)↑ **1=Culvert** (Inlet Controls 3.63 cfs @ 4.62 fps)

Summary for Pond 54P: DMH 15

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 5.08" for 100-Year event
 Inflow = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af
 Outflow = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af
 Routed to Pond 55P : DMH 16

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.75' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.80'	12.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.80' / 50.28' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=56.54' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 6.36 cfs @ 8.10 fps)

Summary for Pond 55P: DMH 16

Inflow Area = 1.060 ac, 54.31% Impervious, Inflow Depth > 5.08" for 100-Year event
 Inflow = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af
 Outflow = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.49 cfs @ 12.09 hrs, Volume= 0.449 af
 Routed to Pond 56P : Inf. Basin 3G

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.40' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.18'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.18' / 50.00' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=55.22' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 6.36 cfs @ 8.10 fps)

Summary for Pond 56P: Inf. Basin 3G

Inflow Area = 1.599 ac, 37.88% Impervious, Inflow Depth > 3.84" for 100-Year event
 Inflow = 6.81 cfs @ 12.10 hrs, Volume= 0.511 af
 Outflow = 1.19 cfs @ 12.64 hrs, Volume= 0.509 af, Atten= 82%, Lag= 32.5 min
 Discarded = 1.19 cfs @ 12.64 hrs, Volume= 0.509 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 53.21' @ 12.64 hrs Surf.Area= 3,910 sf Storage= 8,414 cf

Plug-Flow detention time= 80.8 min calculated for 0.507 af (99% of inflow)

Center-of-Mass det. time= 78.4 min (866.2 - 787.9)

Volume	Invert	Avail.Storage	Storage Description
#1	50.00'	11,770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	985	0	0
51.00	2,275	1,630	1,630
52.00	2,983	2,629	4,259
53.00	3,742	3,363	7,622
54.00	4,554	4,148	11,770

Device	Routing	Invert	Outlet Devices
#1	Discarded	50.00'	7.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 48.00'
#2	Secondary	53.50'	6.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83

Discarded OutFlow Max=1.19 cfs @ 12.64 hrs HW=53.21' (Free Discharge)↑**1=Exfiltration** (Controls 1.19 cfs)**Secondary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=50.00' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)**Summary for Pond 60P: SUB. INF 8**

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 7.18" for 100-Year event
 Inflow = 6.94 cfs @ 12.09 hrs, Volume= 0.510 af
 Outflow = 6.97 cfs @ 12.10 hrs, Volume= 0.463 af, Atten= 0%, Lag= 0.5 min
 Discarded = 0.03 cfs @ 5.25 hrs, Volume= 0.034 af
 Primary = 6.94 cfs @ 12.10 hrs, Volume= 0.429 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.27' @ 12.10 hrs Surf.Area= 1,170 sf Storage= 2,374 cf

Plug-Flow detention time= 55.2 min calculated for 0.463 af (91% of inflow)

Center-of-Mass det. time= 23.5 min (773.2 - 749.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.00'	1,076 cf	25.25'W x 46.34'L x 3.50'H Field A 4,095 cf Overall - 1,405 cf Embedded = 2,690 cf x 40.0% Voids
#2A	60.50'	1,405 cf	ADS_StormTech SC-740 b +Cap x 30 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

30 Chambers in 5 Rows

Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf

2,481 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	60.00'	12.0" Round Culvert X 2.00 L= 55.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.50' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	62.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.25 hrs HW=60.04' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=6.86 cfs @ 12.10 hrs HW=63.27' (Free Discharge)

↑**2=Culvert** (Passes 6.86 cfs of 9.93 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 6.86 cfs @ 2.57 fps)

Summary for Pond 61P: CB 8

Inflow Area = 0.117 ac, 57.03% Impervious, Inflow Depth > 5.30" for 100-Year event
 Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af
 Outflow = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.76 cfs @ 12.09 hrs, Volume= 0.052 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=50.90' (Free Discharge)

↑**1=Culvert** (Inlet Controls 0.74 cfs @ 1.90 fps)

Summary for Pond 62P: CB 66

Inflow Area = 0.149 ac, 73.97% Impervious, Inflow Depth > 7.50" for 100-Year event
 Inflow = 1.24 cfs @ 12.09 hrs, Volume= 0.093 af
 Outflow = 1.24 cfs @ 12.09 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.24 cfs @ 12.09 hrs, Volume= 0.093 af
 Routed to Pond 64P : DMH 47

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

Prepared by Millennium Engineering, Inc

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.18' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.50'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.50' / 60.30' S= 0.0100 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.09 hrs HW=61.17' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.21 cfs @ 3.06 fps)**Summary for Pond 63P: CB 67**

Inflow Area = 0.034 ac, 87.02% Impervious, Inflow Depth > 7.78" for 100-Year event
Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.022 af
Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.60'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.60' / 60.30' S= 0.0214 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=60.89' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.28 cfs @ 1.45 fps)**Summary for Pond 64P: DMH 47**

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 7.37" for 100-Year event
Inflow = 5.03 cfs @ 12.09 hrs, Volume= 0.374 af
Outflow = 5.03 cfs @ 12.09 hrs, Volume= 0.374 af, Atten= 0%, Lag= 0.0 min
Primary = 5.03 cfs @ 12.09 hrs, Volume= 0.374 af
Routed to Pond 68P : Sub. Inf. 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.10' / 59.90' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.90 cfs @ 12.09 hrs HW=63.29' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.90 cfs @ 6.23 fps)

Summary for Pond 65P: DMH 49

Inflow Area = 0.253 ac, 88.87% Impervious, Inflow Depth > 7.80" for 100-Year event
 Inflow = 2.15 cfs @ 12.09 hrs, Volume= 0.164 af
 Outflow = 2.15 cfs @ 12.09 hrs, Volume= 0.164 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.15 cfs @ 12.09 hrs, Volume= 0.164 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.70'	12.0" Round Culvert L= 59.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.70' / 58.00' S= 0.0119 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.10 cfs @ 12.09 hrs HW=59.69' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.10 cfs @ 2.67 fps)

Summary for Pond 66P: CB 68

Inflow Area = 0.163 ac, 82.69% Impervious, Inflow Depth > 7.69" for 100-Year event
 Inflow = 1.37 cfs @ 12.09 hrs, Volume= 0.104 af
 Outflow = 1.37 cfs @ 12.09 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.37 cfs @ 12.09 hrs, Volume= 0.104 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.34 cfs @ 12.09 hrs HW=59.66' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.34 cfs @ 2.89 fps)

Summary for Pond 67P: CB 69

Inflow Area = 0.090 ac, 100.00% Impervious, Inflow Depth > 8.00" for 100-Year event
 Inflow = 0.77 cfs @ 12.09 hrs, Volume= 0.060 af
 Outflow = 0.77 cfs @ 12.09 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.77 cfs @ 12.09 hrs, Volume= 0.060 af
 Routed to Pond 65P : DMH 49

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.90'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.90' / 58.80' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=59.44' (Free Discharge)

↑1=Culvert (Barrel Controls 0.75 cfs @ 2.55 fps)

Summary for Pond 68P: Sub. Inf. 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 7.37" for 100-Year event
 Inflow = 5.03 cfs @ 12.09 hrs, Volume= 0.374 af
 Outflow = 4.77 cfs @ 12.11 hrs, Volume= 0.333 af, Atten= 5%, Lag= 1.5 min
 Discarded = 0.05 cfs @ 12.11 hrs, Volume= 0.050 af
 Primary = 4.72 cfs @ 12.11 hrs, Volume= 0.284 af
 Routed to Pond 209P : level spreader 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.46' @ 12.11 hrs Surf.Area= 1,065 sf Storage= 2,117 cf

Plug-Flow detention time= 63.6 min calculated for 0.333 af (89% of inflow)
 Center-of-Mass det. time= 27.8 min (773.9 - 746.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	606 cf	35.50'W x 30.00'L x 3.67'H Field A 3,909 cf Overall - 2,392 cf Embedded = 1,516 cf x 40.0% Voids
#2A	59.50'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 4 Rows
2,206 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 56.00'
#2	Primary	59.30'	15.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.30' / 57.00' S= 0.0324 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	61.20'	15.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.05 cfs @ 12.11 hrs HW=62.44' (Free Discharge)

↑**1=Exfiltration** (Controls 0.05 cfs)

Primary OutFlow Max=4.65 cfs @ 12.11 hrs HW=62.44' (Free Discharge)

↑**2=Culvert** (Passes 4.65 cfs of 7.40 cfs potential flow)

↑**3=Orifice/Grate** (Orifice Controls 4.65 cfs @ 3.79 fps)

Summary for Pond 69P: CB 72

Inflow Area = 0.245 ac, 72.86% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 2.03 cfs @ 12.09 hrs, Volume= 0.151 af
 Outflow = 2.03 cfs @ 12.09 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.03 cfs @ 12.09 hrs, Volume= 0.151 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.98 cfs @ 12.09 hrs HW=62.43' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.98 cfs @ 2.60 fps)

Summary for Pond 70P: CB 73

Inflow Area = 0.154 ac, 76.98% Impervious, Inflow Depth > 7.50" for 100-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.096 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.096 af
 Routed to Pond 71P : DMH 54

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.50' / 60.90' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.25 cfs @ 12.09 hrs HW=62.18' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.25 cfs @ 2.21 fps)

Summary for Pond 71P: DMH 54

Inflow Area = 0.399 ac, 74.45% Impervious, Inflow Depth > 7.44" for 100-Year event
 Inflow = 3.31 cfs @ 12.09 hrs, Volume= 0.247 af
 Outflow = 3.31 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.31 cfs @ 12.09 hrs, Volume= 0.247 af
 Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.53' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.70' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.23 cfs @ 12.09 hrs HW=62.47' (Free Discharge)
 ↑ **1=Culvert** (Inlet Controls 3.23 cfs @ 4.11 fps)

Summary for Pond 72P: Sub. Inf. 7

Inflow Area = 1.384 ac, 72.05% Impervious, Inflow Depth > 7.42" for 100-Year event
 Inflow = 11.48 cfs @ 12.09 hrs, Volume= 0.855 af
 Outflow = 11.67 cfs @ 12.10 hrs, Volume= 0.772 af, Atten= 0%, Lag= 0.6 min
 Discarded = 0.12 cfs @ 12.10 hrs, Volume= 0.113 af
 Primary = 11.55 cfs @ 12.10 hrs, Volume= 0.659 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.01' @ 12.10 hrs Surf.Area= 1,936 sf Storage= 4,048 cf

Plug-Flow detention time= 57.2 min calculated for 0.772 af (90% of inflow)
 Center-of-Mass det. time= 23.9 min (769.2 - 745.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	60.30'	1,048 cf	44.00'W x 44.00'L x 3.67'H Field A 7,105 cf Overall - 4,486 cf Embedded = 2,620 cf x 40.0% Voids
#2A	60.80'	3,000 cf	Shea Leaching Chamber 8x14x2.7 x 15 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 15 Chambers in 5 Rows
		4,048 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	60.30'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 58.10'
#2	Primary	58.00'	18.0" Round Culvert L= 32.0' CPP, projecting, no headwall, Ke= 0.900

#3 Device 2 63.10' Inlet / Outlet Invert= 58.00' / 52.50' S= 0.1719 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long x 0.5' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00
Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.12 cfs @ 12.10 hrs HW=64.01' (Free Discharge)

↑**1=Exfiltration** (Controls 0.12 cfs)

Primary OutFlow Max=11.43 cfs @ 12.10 hrs HW=64.01' (Free Discharge)

↑**2=Culvert** (Passes 11.43 cfs of 15.40 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 11.43 cfs @ 3.15 fps)

Summary for Pond 73P: CB 64

Inflow Area = 0.252 ac, 65.83% Impervious, Inflow Depth > 7.29" for 100-Year event
Inflow = 2.07 cfs @ 12.09 hrs, Volume= 0.153 af
Outflow = 2.07 cfs @ 12.09 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 2.07 cfs @ 12.09 hrs, Volume= 0.153 af
Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.02 cfs @ 12.09 hrs HW=62.06' (Free Discharge)

↑**1=Culvert** (Barrel Controls 2.02 cfs @ 3.35 fps)

Summary for Pond 74P: CB 65

Inflow Area = 0.174 ac, 65.05% Impervious, Inflow Depth > 7.29" for 100-Year event
Inflow = 1.43 cfs @ 12.09 hrs, Volume= 0.106 af
Outflow = 1.43 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
Primary = 1.43 cfs @ 12.09 hrs, Volume= 0.106 af
Routed to Pond 75P : DMH 46

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.84' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.10'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.10' / 60.90' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.39 cfs @ 12.09 hrs HW=61.82' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.39 cfs @ 2.29 fps)

Summary for Pond 75P: DMH 46

Inflow Area = 0.426 ac, 65.51% Impervious, Inflow Depth > 7.29" for 100-Year event
 Inflow = 3.50 cfs @ 12.09 hrs, Volume= 0.259 af
 Outflow = 3.50 cfs @ 12.09 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.50 cfs @ 12.09 hrs, Volume= 0.259 af
 Routed to Pond 64P : DMH 47

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.92' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	12.0" Round Culvert L= 118.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 60.20' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.41 cfs @ 12.09 hrs HW=62.84' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.41 cfs @ 4.34 fps)

Summary for Pond 76P: CB 70

Inflow Area = 0.189 ac, 71.07% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 1.56 cfs @ 12.09 hrs, Volume= 0.116 af
 Outflow = 1.56 cfs @ 12.09 hrs, Volume= 0.116 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.56 cfs @ 12.09 hrs, Volume= 0.116 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.99' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.52 cfs @ 12.09 hrs HW=58.98' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.52 cfs @ 3.21 fps)

Summary for Pond 77P: CB 71

Inflow Area = 0.098 ac, 95.31% Impervious, Inflow Depth > 7.78" for 100-Year event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 0.064 af
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 0.064 af
 Routed to Pond 78P : DMH 50

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.73' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.20'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.20' / 58.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.81 cfs @ 12.09 hrs HW=58.72' (Free Discharge)

↑**1=Culvert** (Barrel Controls 0.81 cfs @ 2.82 fps)

Summary for Pond 78P: DMH 50

Inflow Area = 0.540 ac, 83.81% Impervious, Inflow Depth > 7.66" for 100-Year event
Inflow = 4.54 cfs @ 12.09 hrs, Volume= 0.344 af
Outflow = 4.54 cfs @ 12.09 hrs, Volume= 0.344 af, Atten= 0%, Lag= 0.0 min
Primary = 4.54 cfs @ 12.09 hrs, Volume= 0.344 af
Routed to Pond 79P : DMH 51

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.17' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.90'	18.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.90' / 57.70' S= 0.0080 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.42 cfs @ 12.09 hrs HW=59.15' (Free Discharge)

↑**1=Culvert** (Barrel Controls 4.42 cfs @ 3.80 fps)

Summary for Pond 79P: DMH 51

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 7.73" for 100-Year event
Inflow = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af
Outflow = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af, Atten= 0%, Lag= 0.0 min
Primary = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af
Routed to Pond 80P : DMH 52

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.60'	18.0" Round Culvert L= 148.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.60' / 56.91' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.67 cfs @ 12.09 hrs HW=59.06' (Free Discharge)

↑**1=Culvert** (Barrel Controls 5.67 cfs @ 4.11 fps)

Summary for Pond 80P: DMH 52

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 7.73" for 100-Year event
 Inflow = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af
 Outflow = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af
 Routed to Pond 241P : Sub. Inf. 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.30' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.81'	18.0" Round Culvert L= 104.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.81' / 56.27' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.69 cfs @ 12.09 hrs HW=58.27' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 5.69 cfs @ 3.24 fps)

Summary for Pond 83P: CB 86

Inflow Area = 0.178 ac, 72.79% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 1.47 cfs @ 12.09 hrs, Volume= 0.110 af
 Outflow = 1.47 cfs @ 12.09 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.47 cfs @ 12.09 hrs, Volume= 0.110 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.75' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=58.74' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.43 cfs @ 2.31 fps)

Summary for Pond 84P: CB 87

Inflow Area = 0.189 ac, 78.29% Impervious, Inflow Depth > 7.60" for 100-Year event
 Inflow = 1.59 cfs @ 12.09 hrs, Volume= 0.120 af
 Outflow = 1.59 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.59 cfs @ 12.09 hrs, Volume= 0.120 af
 Routed to Pond 85P : DMH 65

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 58.79' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.00' / 57.75' S= 0.0227 ' S= 0.0227 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.55 cfs @ 12.09 hrs HW=58.78' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.55 cfs @ 2.37 fps)**Summary for Pond 85P: DMH 65**

Inflow Area = 0.367 ac, 75.63% Impervious, Inflow Depth > 7.50" for 100-Year event
Inflow = 3.07 cfs @ 12.09 hrs, Volume= 0.230 af
Outflow = 3.07 cfs @ 12.09 hrs, Volume= 0.230 af, Atten= 0%, Lag= 0.0 min
Primary = 3.07 cfs @ 12.09 hrs, Volume= 0.230 af
Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 59.20' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.65'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.65' / 57.55' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.99 cfs @ 12.09 hrs HW=59.15' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.99 cfs @ 3.80 fps)**Summary for Pond 86P: Sub. Inf. 6**

Inflow Area = 0.745 ac, 45.50% Impervious, Inflow Depth > 6.72" for 100-Year event
Inflow = 5.79 cfs @ 12.09 hrs, Volume= 0.417 af
Outflow = 5.45 cfs @ 12.10 hrs, Volume= 0.386 af, Atten= 6%, Lag= 1.0 min
Discarded = 0.05 cfs @ 12.10 hrs, Volume= 0.046 af
Primary = 5.40 cfs @ 12.10 hrs, Volume= 0.340 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.77' @ 12.10 hrs Surf.Area= 804 sf Storage= 1,690 cf

Plug-Flow detention time= 45.4 min calculated for 0.386 af (93% of inflow)

Center-of-Mass det. time= 18.8 min (776.1 - 757.3)

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Volume	Invert	Avail.Storage	Storage Description
#1A	61.00'	750 cf	20.50'W x 39.22'L x 3.50'H Field A 2,814 cf Overall - 940 cf Embedded = 1,874 cf x 40.0% Voids
#2A	61.50'	940 cf	ADS_StormTech SC-740 b +Cap x 20 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 20 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		1,690 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	61.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 59.00'
#2	Primary	61.00'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 57.00' S= 0.0381 ' S= 0.0381 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	63.50'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.05 cfs @ 12.10 hrs HW=64.75' (Free Discharge)↑ **1=Exfiltration** (Controls 0.05 cfs)**Primary OutFlow** Max=5.37 cfs @ 12.10 hrs HW=64.73' (Free Discharge)↑ **2=Culvert** (Inlet Controls 5.37 cfs @ 6.83 fps)↑ **3=Broad-Crested Rectangular Weir** (Passes 5.37 cfs of 9.08 cfs potential flow)**Summary for Pond 89P: CB 74**

Inflow Area = 0.052 ac, 80.20% Impervious, Inflow Depth > 7.60" for 100-Year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 ' S= 0.0083 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=64.89' (Free Discharge)↑ **1=Culvert** (Barrel Controls 0.43 cfs @ 2.23 fps)

Summary for Pond 90P: CB 75

Inflow Area = 0.104 ac, 76.91% Impervious, Inflow Depth > 7.50" for 100-Year event
 Inflow = 0.87 cfs @ 12.09 hrs, Volume= 0.065 af
 Outflow = 0.87 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.87 cfs @ 12.09 hrs, Volume= 0.065 af
 Routed to Pond 91P : DMH 55

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 65.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.50'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.50' / 64.40' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.85 cfs @ 12.09 hrs HW=65.08' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.85 cfs @ 2.60 fps)

Summary for Pond 91P: DMH 55

Inflow Area = 0.156 ac, 78.01% Impervious, Inflow Depth > 7.53" for 100-Year event
 Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.098 af
 Outflow = 1.31 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.31 cfs @ 12.09 hrs, Volume= 0.098 af
 Routed to Pond 86P : Sub. Inf. 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 65.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	64.30'	12.0" Round Culvert L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 64.30' / 62.10' S= 0.0204 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=64.98' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.27 cfs @ 2.22 fps)

Summary for Pond 94P: CB 77

Inflow Area = 0.204 ac, 71.21% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 1.69 cfs @ 12.09 hrs, Volume= 0.126 af
 Outflow = 1.69 cfs @ 12.09 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.69 cfs @ 12.09 hrs, Volume= 0.126 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 63.53' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.65 cfs @ 12.09 hrs HW=63.52' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.65 cfs @ 3.05 fps)**Summary for Pond 95P: CB 76**

Inflow Area = 0.141 ac, 70.69% Impervious, Inflow Depth > 7.40" for 100-Year event
Inflow = 1.17 cfs @ 12.09 hrs, Volume= 0.087 af
Outflow = 1.17 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 1.17 cfs @ 12.09 hrs, Volume= 0.087 af
Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.35' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.65'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.65' / 62.55' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=63.33' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.13 cfs @ 2.79 fps)**Summary for Pond 96P: DMH 56**

Inflow Area = 0.985 ac, 71.08% Impervious, Inflow Depth > 7.41" for 100-Year event
Inflow = 8.17 cfs @ 12.09 hrs, Volume= 0.608 af
Outflow = 8.17 cfs @ 12.09 hrs, Volume= 0.608 af, Atten= 0%, Lag= 0.0 min
Primary = 8.17 cfs @ 12.09 hrs, Volume= 0.608 af
Routed to Pond 72P : Sub. Inf. 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.22' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.00'	18.0" Round Culvert L= 134.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.00' / 61.10' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.95 cfs @ 12.09 hrs HW=64.15' (Free Discharge)↑**1=Culvert** (Inlet Controls 7.95 cfs @ 4.50 fps)

Summary for Pond 97P: Sub. INF 9

Inflow Area = 1.214 ac, 72.06% Impervious, Inflow Depth > 7.41" for 100-Year event
 Inflow = 10.06 cfs @ 12.09 hrs, Volume= 0.750 af
 Outflow = 10.20 cfs @ 12.09 hrs, Volume= 0.658 af, Atten= 0%, Lag= 0.2 min
 Discarded = 0.03 cfs @ 5.15 hrs, Volume= 0.037 af
 Primary = 10.17 cfs @ 12.09 hrs, Volume= 0.621 af
 Routed to Pond 207P : level spreader 7.8.9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 63.84' @ 12.09 hrs Surf.Area= 1,260 sf Storage= 4,495 cf

Plug-Flow detention time= 70.9 min calculated for 0.658 af (88% of inflow)
 Center-of-Mass det. time= 31.6 min (777.0 - 745.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	59.00'	514 cf	42.00'W x 30.00'L x 5.17'H Field A 6,514 cf Overall - 5,230 cf Embedded = 1,284 cf x 40.0% Voids
#2A	59.50'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 5 Rows
		4,514 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	59.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	57.50'	15.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.50' / 53.00' S= 0.1500 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	63.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.15 hrs HW=59.06' (Free Discharge)
 ↑ **1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=9.91 cfs @ 12.09 hrs HW=63.83' (Free Discharge)
 ↑ **2=Culvert** (Passes 9.91 cfs of 11.14 cfs potential flow)
 ↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 9.91 cfs @ 3.00 fps)

Summary for Pond 98P: DMH 61

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 7.37" for 100-Year event
 Inflow = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af
 Outflow = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af
 Routed to Pond 97P : Sub. INF 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 61.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 58.30' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.82 cfs @ 12.09 hrs HW=61.58' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.82 cfs @ 3.86 fps)**Summary for Pond 99P: CB 81**

Inflow Area = 0.258 ac, 68.08% Impervious, Inflow Depth > 7.29" for 100-Year event
Inflow = 2.12 cfs @ 12.09 hrs, Volume= 0.157 af
Outflow = 2.12 cfs @ 12.09 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
Primary = 2.12 cfs @ 12.09 hrs, Volume= 0.157 af
Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.02' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.06 cfs @ 12.09 hrs HW=64.00' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.06 cfs @ 3.23 fps)**Summary for Pond 100P: CB 80**

Inflow Area = 0.383 ac, 73.17% Impervious, Inflow Depth > 7.50" for 100-Year event
Inflow = 3.19 cfs @ 12.09 hrs, Volume= 0.239 af
Outflow = 3.19 cfs @ 12.09 hrs, Volume= 0.239 af, Atten= 0%, Lag= 0.0 min
Primary = 3.19 cfs @ 12.09 hrs, Volume= 0.239 af
Routed to Pond 101P : DMH 59

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 64.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.99'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.99' / 62.89' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.11 cfs @ 12.09 hrs HW=64.57' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.11 cfs @ 3.96 fps)

Summary for Pond 101P: DMH 59

Inflow Area = 0.640 ac, 71.12% Impervious, Inflow Depth > 7.42" for 100-Year event
 Inflow = 5.31 cfs @ 12.09 hrs, Volume= 0.396 af
 Outflow = 5.31 cfs @ 12.09 hrs, Volume= 0.396 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.31 cfs @ 12.09 hrs, Volume= 0.396 af
 Routed to Pond 96P : DMH 56

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 64.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	62.79'	18.0" Round Culvert L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 62.79' / 62.10' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.17 cfs @ 12.09 hrs HW=64.13' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.17 cfs @ 4.10 fps)

Summary for Pond 102P: CB 93

Inflow Area = 0.178 ac, 69.60% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.110 af
 Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.110 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.21' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.44 cfs @ 12.09 hrs HW=62.20' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.44 cfs @ 2.92 fps)

Summary for Pond 103P: CB 92

Inflow Area = 0.313 ac, 76.83% Impervious, Inflow Depth > 7.50" for 100-Year event
 Inflow = 2.61 cfs @ 12.09 hrs, Volume= 0.196 af
 Outflow = 2.61 cfs @ 12.09 hrs, Volume= 0.196 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.61 cfs @ 12.09 hrs, Volume= 0.196 af
 Routed to Pond 117P : DMH 69

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 62.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.25' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.55 cfs @ 12.09 hrs HW=62.63' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.55 cfs @ 3.25 fps)**Summary for Pond 104P: CB 83**

Inflow Area = 0.343 ac, 64.21% Impervious, Inflow Depth > 7.18" for 100-Year event
Inflow = 2.79 cfs @ 12.09 hrs, Volume= 0.205 af
Outflow = 2.79 cfs @ 12.09 hrs, Volume= 0.205 af, Atten= 0%, Lag= 0.0 min
Primary = 2.79 cfs @ 12.09 hrs, Volume= 0.205 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.37' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.72 cfs @ 12.09 hrs HW=62.33' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.72 cfs @ 3.46 fps)**Summary for Pond 105P: CB 82**

Inflow Area = 0.504 ac, 74.80% Impervious, Inflow Depth > 7.50" for 100-Year event
Inflow = 4.21 cfs @ 12.09 hrs, Volume= 0.315 af
Outflow = 4.21 cfs @ 12.09 hrs, Volume= 0.315 af, Atten= 0%, Lag= 0.0 min
Primary = 4.21 cfs @ 12.09 hrs, Volume= 0.315 af
Routed to Pond 106P : DMH 60

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.48' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.10 cfs @ 12.09 hrs HW=63.38' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.10 cfs @ 5.22 fps)

Summary for Pond 106P: DMH 60

Inflow Area = 0.847 ac, 70.52% Impervious, Inflow Depth > 7.37" for 100-Year event
 Inflow = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af
 Outflow = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.00 cfs @ 12.09 hrs, Volume= 0.520 af
 Routed to Pond 98P : DMH 61

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.80'	18.0" Round Culvert L= 110.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.80' / 59.90' S= 0.0082 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.82 cfs @ 12.09 hrs HW=62.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 6.82 cfs @ 3.86 fps)

Summary for Pond 107P: CB

Inflow Area = 0.358 ac, 66.21% Impervious, Inflow Depth > 7.26" for 100-Year event
 Inflow = 2.94 cfs @ 12.09 hrs, Volume= 0.217 af
 Outflow = 2.94 cfs @ 12.09 hrs, Volume= 0.217 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.94 cfs @ 12.09 hrs, Volume= 0.217 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.46' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.86 cfs @ 12.09 hrs HW=61.42' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.86 cfs @ 3.64 fps)

Summary for Pond 108P: CB 88

Inflow Area = 0.160 ac, 74.59% Impervious, Inflow Depth > 7.47" for 100-Year event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 0.099 af
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 0.099 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 60.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.00' S= 0.0909 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 12.09 hrs HW=60.69' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.29 cfs @ 2.23 fps)**Summary for Pond 109P: CB 79**

Inflow Area = 0.457 ac, 64.44% Impervious, Inflow Depth > 7.18" for 100-Year event
Inflow = 3.72 cfs @ 12.09 hrs, Volume= 0.273 af
Outflow = 3.72 cfs @ 12.09 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.0 min
Primary = 3.72 cfs @ 12.09 hrs, Volume= 0.273 af
Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 63.45' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.63 cfs @ 12.09 hrs HW=63.37' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.63 cfs @ 4.62 fps)**Summary for Pond 110P: CB 78**

Inflow Area = 0.396 ac, 64.26% Impervious, Inflow Depth > 7.18" for 100-Year event
Inflow = 3.22 cfs @ 12.09 hrs, Volume= 0.237 af
Outflow = 3.22 cfs @ 12.09 hrs, Volume= 0.237 af, Atten= 0%, Lag= 0.0 min
Primary = 3.22 cfs @ 12.09 hrs, Volume= 0.237 af
Routed to Pond 111P : DMH 57

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 62.59' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.40'	15.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.40' / 61.30' S= 0.0067 ' ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.14 cfs @ 12.09 hrs HW=62.57' (Free Discharge)↑**1=Culvert** (Barrel Controls 3.14 cfs @ 3.41 fps)

Summary for Pond 111P: DMH 57

Inflow Area = 0.852 ac, 64.36% Impervious, Inflow Depth > 7.18" for 100-Year event
 Inflow = 6.94 cfs @ 12.09 hrs, Volume= 0.510 af
 Outflow = 6.94 cfs @ 12.09 hrs, Volume= 0.510 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.94 cfs @ 12.09 hrs, Volume= 0.510 af
 Routed to Pond 60P : SUB. INF 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.40' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	61.00'	24.0" Round Culvert L= 74.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 61.00' / 60.60' S= 0.0054 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.76 cfs @ 12.09 hrs HW=62.38' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 6.76 cfs @ 4.14 fps)

Summary for Pond 112P: CB 45

Inflow Area = 0.290 ac, 58.56% Impervious, Inflow Depth > 6.85" for 100-Year event
 Inflow = 2.29 cfs @ 12.09 hrs, Volume= 0.165 af
 Outflow = 2.29 cfs @ 12.09 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.29 cfs @ 12.09 hrs, Volume= 0.165 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.68' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.23 cfs @ 12.09 hrs HW=58.66' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.23 cfs @ 3.32 fps)

Summary for Pond 113P: CB 95

Inflow Area = 0.189 ac, 91.26% Impervious, Inflow Depth > 7.86" for 100-Year event
 Inflow = 1.61 cfs @ 12.09 hrs, Volume= 0.124 af
 Outflow = 1.61 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.61 cfs @ 12.09 hrs, Volume= 0.124 af
 Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 60.85' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.57 cfs @ 12.09 hrs HW=60.84' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.57 cfs @ 3.02 fps)**Summary for Pond 114P: CB 94**

Inflow Area = 0.285 ac, 80.60% Impervious, Inflow Depth > 7.60" for 100-Year event
Inflow = 2.40 cfs @ 12.09 hrs, Volume= 0.181 af
Outflow = 2.40 cfs @ 12.09 hrs, Volume= 0.181 af, Atten= 0%, Lag= 0.0 min
Primary = 2.40 cfs @ 12.09 hrs, Volume= 0.181 af
Routed to Pond 118P : DMH 70

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 61.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 60.00' / 59.90' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.34 cfs @ 12.09 hrs HW=61.11' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.34 cfs @ 2.98 fps)**Summary for Pond 115P: CB 91**

Inflow Area = 0.275 ac, 75.65% Impervious, Inflow Depth > 7.50" for 100-Year event
Inflow = 2.30 cfs @ 12.09 hrs, Volume= 0.172 af
Outflow = 2.30 cfs @ 12.09 hrs, Volume= 0.172 af, Atten= 0%, Lag= 0.0 min
Primary = 2.30 cfs @ 12.09 hrs, Volume= 0.172 af
Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0833 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.24 cfs @ 12.09 hrs HW=60.29' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.24 cfs @ 2.85 fps)

Summary for Pond 116P: CB 90

Inflow Area = 0.112 ac, 84.21% Impervious, Inflow Depth > 7.69" for 100-Year event
 Inflow = 0.95 cfs @ 12.09 hrs, Volume= 0.072 af
 Outflow = 0.95 cfs @ 12.09 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.95 cfs @ 12.09 hrs, Volume= 0.072 af
 Routed to Pond 120P : DMH 67

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.80' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.23'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.23' / 58.23' S= 0.0714 ' S= 0.0714 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=59.79' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.92 cfs @ 2.02 fps)

Summary for Pond 117P: DMH 69

Inflow Area = 0.491 ac, 74.21% Impervious, Inflow Depth > 7.46" for 100-Year event
 Inflow = 4.09 cfs @ 12.09 hrs, Volume= 0.306 af
 Outflow = 4.09 cfs @ 12.09 hrs, Volume= 0.306 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.09 cfs @ 12.09 hrs, Volume= 0.306 af
 Routed to Pond 119P : DMH 66

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 60.41' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.26'	18.0" Round Culvert L= 140.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.26' / 58.56' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.98 cfs @ 12.09 hrs HW=60.39' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.98 cfs @ 3.87 fps)

Summary for Pond 118P: DMH 70

Inflow Area = 0.474 ac, 84.85% Impervious, Inflow Depth > 7.71" for 100-Year event
 Inflow = 4.01 cfs @ 12.09 hrs, Volume= 0.305 af
 Outflow = 4.01 cfs @ 12.09 hrs, Volume= 0.305 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.01 cfs @ 12.09 hrs, Volume= 0.305 af
 Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 62.23' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	59.80'	12.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.80' / 59.36' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.90 cfs @ 12.09 hrs HW=62.14' (Free Discharge)↑**1=Culvert** (Barrel Controls 3.90 cfs @ 4.97 fps)**Summary for Pond 119P: DMH 66**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 7.39" for 100-Year event
Inflow = 8.36 cfs @ 12.09 hrs, Volume= 0.622 af
Outflow = 8.36 cfs @ 12.09 hrs, Volume= 0.622 af, Atten= 0%, Lag= 0.0 min
Primary = 8.36 cfs @ 12.09 hrs, Volume= 0.622 af
Routed to Pond 251P : Sub. Inf. 10

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 60.76' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	58.46'	18.0" Round Culvert L= 102.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 58.46' / 57.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.14 cfs @ 12.09 hrs HW=60.69' (Free Discharge)↑**1=Culvert** (Barrel Controls 8.14 cfs @ 4.61 fps)**Summary for Pond 120P: DMH 67**

Inflow Area = 0.388 ac, 78.13% Impervious, Inflow Depth > 7.56" for 100-Year event
Inflow = 3.25 cfs @ 12.09 hrs, Volume= 0.244 af
Outflow = 3.25 cfs @ 12.09 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min
Primary = 3.25 cfs @ 12.09 hrs, Volume= 0.244 af
Routed to Pond 233P : SUB. INF. 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.71' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.85'	24.0" Round Culvert L= 40.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.85' / 57.00' S= 0.0213 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.16 cfs @ 12.09 hrs HW=58.70' (Free Discharge)↑**1=Culvert** (Inlet Controls 3.16 cfs @ 2.48 fps)

Summary for Pond 122P: CB 46

Inflow Area = 0.275 ac, 72.42% Impervious, Inflow Depth > 7.40" for 100-Year event
 Inflow = 2.28 cfs @ 12.09 hrs, Volume= 0.170 af
 Outflow = 2.28 cfs @ 12.09 hrs, Volume= 0.170 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.28 cfs @ 12.09 hrs, Volume= 0.170 af
 Routed to Pond 123P : DMH 31

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.70' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.59'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.59' / 57.49' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.22 cfs @ 12.09 hrs HW=58.68' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.22 cfs @ 3.24 fps)

Summary for Pond 123P: DMH 31

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 7.12" for 100-Year event
 Inflow = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af
 Outflow = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af
 Routed to Pond 124P : DMH 32

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 58.61' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	57.39'	18.0" Round Culvert L= 78.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 57.39' / 56.61' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.45 cfs @ 12.09 hrs HW=58.59' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 4.45 cfs @ 2.94 fps)

Summary for Pond 124P: DMH 32

Inflow Area = 0.565 ac, 65.31% Impervious, Inflow Depth > 7.12" for 100-Year event
 Inflow = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af
 Outflow = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.57 cfs @ 12.09 hrs, Volume= 0.335 af
 Routed to Pond 206P : DMH 34

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.79' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	56.57'	18.0" Round Culvert L= 75.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 56.57' / 54.70' S= 0.0249 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.45 cfs @ 12.09 hrs HW=57.77' (Free Discharge)

↑**1=Culvert** (Inlet Controls 4.45 cfs @ 2.94 fps)

Summary for Pond 125P: CB 36

Inflow Area = 0.196 ac, 76.76% Impervious, Inflow Depth > 6.62" for 100-Year event
Inflow = 1.52 cfs @ 12.09 hrs, Volume= 0.108 af
Outflow = 1.52 cfs @ 12.09 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.0 min
Primary = 1.52 cfs @ 12.09 hrs, Volume= 0.108 af
Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.28' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.48 cfs @ 12.09 hrs HW=55.27' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.48 cfs @ 2.92 fps)

Summary for Pond 126P: CB 37

Inflow Area = 0.225 ac, 79.18% Impervious, Inflow Depth > 6.85" for 100-Year event
Inflow = 1.78 cfs @ 12.09 hrs, Volume= 0.128 af
Outflow = 1.78 cfs @ 12.09 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 1.78 cfs @ 12.09 hrs, Volume= 0.128 af
Routed to Pond 127P : DMH 26

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.37' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.45'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.45' / 54.35' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.73 cfs @ 12.09 hrs HW=55.36' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.73 cfs @ 3.04 fps)

Summary for Pond 127P: DMH 26

Inflow Area = 0.421 ac, 78.05% Impervious, Inflow Depth > 6.74" for 100-Year event
 Inflow = 3.29 cfs @ 12.09 hrs, Volume= 0.236 af
 Outflow = 3.29 cfs @ 12.09 hrs, Volume= 0.236 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.29 cfs @ 12.09 hrs, Volume= 0.236 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.96' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.25'	12.0" Round Culvert L= 84.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.25' / 52.80' S= 0.0173 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.21 cfs @ 12.09 hrs HW=55.91' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 3.21 cfs @ 4.09 fps)

Summary for Pond 129P: CB 34

Inflow Area = 0.260 ac, 54.23% Impervious, Inflow Depth > 5.06" for 100-Year event
 Inflow = 1.61 cfs @ 12.09 hrs, Volume= 0.109 af
 Outflow = 1.61 cfs @ 12.09 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.61 cfs @ 12.09 hrs, Volume= 0.109 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.03' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.58 cfs @ 12.09 hrs HW=56.02' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.58 cfs @ 3.13 fps)

Summary for Pond 131P: CB 35

Inflow Area = 0.210 ac, 39.72% Impervious, Inflow Depth > 3.99" for 100-Year event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.070 af
 Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.070 af
 Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.82' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.02 cfs @ 12.09 hrs HW=55.81' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.02 cfs @ 2.89 fps)**Summary for Pond 132P: CB 33**

Inflow Area = 0.535 ac, 41.20% Impervious, Inflow Depth > 4.10" for 100-Year event
Inflow = 2.71 cfs @ 12.09 hrs, Volume= 0.183 af
Outflow = 2.71 cfs @ 12.09 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 12.09 hrs, Volume= 0.183 af
Routed to Pond 134P : DMH 25

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 56.53' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.20'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.20' / 55.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.68 cfs @ 12.09 hrs HW=56.50' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.68 cfs @ 3.41 fps)**Summary for Pond 133P: DMH 24**

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 4.33" for 100-Year event
Inflow = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af
Outflow = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af, Atten= 0%, Lag= 0.0 min
Primary = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af
Routed to Pond 246P : Sub. Inf. 3D

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 56.14' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.65'	18.0" Round Culvert L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.65' / 54.50' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.27 cfs @ 12.09 hrs HW=56.12' (Free Discharge)↑**1=Culvert** (Barrel Controls 5.27 cfs @ 3.78 fps)

Summary for Pond 134P: DMH 25

Inflow Area = 1.004 ac, 44.26% Impervious, Inflow Depth > 4.33" for 100-Year event
 Inflow = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af
 Outflow = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.36 cfs @ 12.09 hrs, Volume= 0.362 af
 Routed to Pond 133P : DMH 24

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.49' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	55.00'	18.0" Round Culvert L= 93.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 55.00' / 54.65' S= 0.0038 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.27 cfs @ 12.09 hrs HW=56.47' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.27 cfs @ 3.78 fps)

Summary for Pond 136P: CB 38

Inflow Area = 0.180 ac, 66.23% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 1.27 cfs @ 12.09 hrs, Volume= 0.088 af
 Outflow = 1.27 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.27 cfs @ 12.09 hrs, Volume= 0.088 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.23' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.24 cfs @ 12.09 hrs HW=54.22' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.24 cfs @ 2.87 fps)

Summary for Pond 137P: CB 44

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 6.85" for 100-Year event
 Inflow = 1.98 cfs @ 12.09 hrs, Volume= 0.143 af
 Outflow = 1.98 cfs @ 12.09 hrs, Volume= 0.143 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.98 cfs @ 12.09 hrs, Volume= 0.143 af
 Routed to Pond 239P : INF 3C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.43' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.00' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.93 cfs @ 12.09 hrs HW=54.41' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.93 cfs @ 2.57 fps)**Summary for Pond 138P: CB 39**

Inflow Area = 0.145 ac, 72.58% Impervious, Inflow Depth > 6.38" for 100-Year event
 Inflow = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af
 Outflow = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.09 cfs @ 12.09 hrs, Volume= 0.077 af
 Routed to Pond 139P : DMH 28

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.50' / 53.40' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.06 cfs @ 12.09 hrs HW=54.15' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.06 cfs @ 2.77 fps)**Summary for Pond 139P: DMH 28**

Inflow Area = 0.325 ac, 69.06% Impervious, Inflow Depth > 6.11" for 100-Year event
 Inflow = 2.36 cfs @ 12.09 hrs, Volume= 0.165 af
 Outflow = 2.36 cfs @ 12.09 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.36 cfs @ 12.09 hrs, Volume= 0.165 af
 Routed to Pond 205P : DMH 27

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.30'	12.0" Round Culvert L= 99.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.30' / 52.80' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.31 cfs @ 12.09 hrs HW=54.40' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.31 cfs @ 2.94 fps)

Summary for Pond 142P: CB 40

Inflow Area = 0.409 ac, 65.98% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 2.90 cfs @ 12.09 hrs, Volume= 0.201 af
 Outflow = 2.90 cfs @ 12.09 hrs, Volume= 0.201 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.90 cfs @ 12.09 hrs, Volume= 0.201 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.83 cfs @ 12.09 hrs HW=51.93' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.83 cfs @ 3.61 fps)

Summary for Pond 143P: CB 41

Inflow Area = 0.577 ac, 66.17% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 4.08 cfs @ 12.09 hrs, Volume= 0.284 af
 Outflow = 4.08 cfs @ 12.09 hrs, Volume= 0.284 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.08 cfs @ 12.09 hrs, Volume= 0.284 af
 Routed to Pond 144P : DMH 30

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.90' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.53'	12.0" Round Culvert L= 7.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.53' / 50.43' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.99 cfs @ 12.09 hrs HW=52.82' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 3.99 cfs @ 5.08 fps)

Summary for Pond 144P: DMH 30

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af
 Outflow = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
 Primary = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af
 Routed to Pond 145P : DMH 29

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.15' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.33'	18.0" Round Culvert L= 73.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.33' / 49.96' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.82 cfs @ 12.09 hrs HW=52.11' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.82 cfs @ 3.86 fps)**Summary for Pond 145P: DMH 29**

Inflow Area = 0.986 ac, 66.09% Impervious, Inflow Depth > 5.90" for 100-Year event
Inflow = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af
Outflow = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 6.98 cfs @ 12.09 hrs, Volume= 0.485 af
Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.69' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.86'	18.0" Round Culvert L= 95.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.86' / 49.00' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.82 cfs @ 12.09 hrs HW=51.64' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.82 cfs @ 3.86 fps)**Summary for Pond 147P: CB 28**

Inflow Area = 0.372 ac, 68.57% Impervious, Inflow Depth > 6.09" for 100-Year event
Inflow = 2.70 cfs @ 12.09 hrs, Volume= 0.189 af
Outflow = 2.70 cfs @ 12.09 hrs, Volume= 0.189 af, Atten= 0%, Lag= 0.0 min
Primary = 2.70 cfs @ 12.09 hrs, Volume= 0.189 af
Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 27.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.66 cfs @ 12.09 hrs HW=55.51' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.66 cfs @ 3.40 fps)

Summary for Pond 148P: CB 43

Inflow Area = 0.196 ac, 80.21% Impervious, Inflow Depth > 6.85" for 100-Year event
 Inflow = 1.55 cfs @ 12.09 hrs, Volume= 0.112 af
 Outflow = 1.55 cfs @ 12.09 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.55 cfs @ 12.09 hrs, Volume= 0.112 af
 Routed to Pond 240P : Sub. Inf. 3B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.78' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	12.0" Round Culvert L= 68.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.00' / 49.00' S= 0.0441 ' S= 0.0441 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.51 cfs @ 12.09 hrs HW=52.76' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.51 cfs @ 2.35 fps)

Summary for Pond 149P: CB 29

Inflow Area = 0.399 ac, 65.93% Impervious, Inflow Depth > 6.02" for 100-Year event
 Inflow = 2.87 cfs @ 12.09 hrs, Volume= 0.200 af
 Outflow = 2.87 cfs @ 12.09 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.87 cfs @ 12.09 hrs, Volume= 0.200 af
 Routed to Pond 150P : DMH 22

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.62' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.20'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.20' / 54.05' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.80 cfs @ 12.09 hrs HW=55.58' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.80 cfs @ 3.57 fps)

Summary for Pond 150P: DMH 22

Inflow Area = 0.771 ac, 67.20% Impervious, Inflow Depth > 6.05" for 100-Year event
 Inflow = 5.57 cfs @ 12.09 hrs, Volume= 0.389 af
 Outflow = 5.57 cfs @ 12.09 hrs, Volume= 0.389 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.57 cfs @ 12.09 hrs, Volume= 0.389 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 56.00' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.95'	15.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.95' / 53.23' S= 0.0144 ' S= 0.0144 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.44 cfs @ 12.09 hrs HW=55.94' (Free Discharge)

↑**1=Culvert** (Inlet Controls 5.44 cfs @ 4.43 fps)

Summary for Pond 151P: CB 22

Inflow Area = 0.159 ac, 74.64% Impervious, Inflow Depth > 6.50" for 100-Year event
Inflow = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af
Outflow = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.02' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0054 ' S= 0.0054 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.09 hrs HW=53.01' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.18 cfs @ 2.78 fps)

Summary for Pond 152P: CB 23

Inflow Area = 0.210 ac, 67.61% Impervious, Inflow Depth > 6.02" for 100-Year event
Inflow = 1.51 cfs @ 12.09 hrs, Volume= 0.105 af
Outflow = 1.51 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 1.51 cfs @ 12.09 hrs, Volume= 0.105 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.10' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.30'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.30' / 52.15' S= 0.0079 ' S= 0.0079 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=53.09' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.47 cfs @ 3.04 fps)

Summary for Pond 153P: DMH 17

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 6.32" for 100-Year event
 Inflow = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af
 Outflow = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af
 Routed to Pond 204P : DMH 18

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.05'	18.0" Round Culvert L= 94.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.05' / 51.55' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=12.58 cfs @ 12.09 hrs HW=56.31' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 12.58 cfs @ 7.12 fps)

Summary for Pond 154P: CB 18

Inflow Area = 0.207 ac, 76.76% Impervious, Inflow Depth > 6.62" for 100-Year event
 Inflow = 1.60 cfs @ 12.09 hrs, Volume= 0.114 af
 Outflow = 1.60 cfs @ 12.09 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.60 cfs @ 12.09 hrs, Volume= 0.114 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.09' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.56 cfs @ 12.09 hrs HW=54.08' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.56 cfs @ 3.05 fps)

Summary for Pond 155P: CB 27

Inflow Area = 0.220 ac, 74.64% Impervious, Inflow Depth > 6.50" for 100-Year event
 Inflow = 1.67 cfs @ 12.09 hrs, Volume= 0.119 af
 Outflow = 1.67 cfs @ 12.09 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.67 cfs @ 12.09 hrs, Volume= 0.119 af
 Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 55.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.63 cfs @ 12.09 hrs HW=55.46' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.63 cfs @ 3.06 fps)**Summary for Pond 156P: CB 26**

Inflow Area = 0.108 ac, 90.07% Impervious, Inflow Depth > 7.50" for 100-Year event
Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.067 af
Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.90 cfs @ 12.09 hrs, Volume= 0.067 af
Routed to Pond 157P : DMH 21

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.60'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.60' / 54.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=55.18' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.88 cfs @ 2.65 fps)**Summary for Pond 157P: DMH 21**

Inflow Area = 0.328 ac, 79.72% Impervious, Inflow Depth > 6.83" for 100-Year event
Inflow = 2.58 cfs @ 12.09 hrs, Volume= 0.186 af
Outflow = 2.58 cfs @ 12.09 hrs, Volume= 0.186 af, Atten= 0%, Lag= 0.0 min
Primary = 2.58 cfs @ 12.09 hrs, Volume= 0.186 af
Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 55.64' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.40'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.40' / 53.50' S= 0.0105 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.51 cfs @ 12.09 hrs HW=55.61' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.51 cfs @ 3.20 fps)

Summary for Pond 158P: CB 24

Inflow Area = 0.117 ac, 70.43% Impervious, Inflow Depth > 6.26" for 100-Year event
 Inflow = 0.87 cfs @ 12.09 hrs, Volume= 0.061 af
 Outflow = 0.87 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.87 cfs @ 12.09 hrs, Volume= 0.061 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.85 cfs @ 12.09 hrs HW=54.18' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 0.85 cfs @ 2.60 fps)

Summary for Pond 159P: CB 25

Inflow Area = 0.146 ac, 79.60% Impervious, Inflow Depth > 6.85" for 100-Year event
 Inflow = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af
 Outflow = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.15 cfs @ 12.09 hrs, Volume= 0.083 af
 Routed to Pond 160P : DMH 20

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.29' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.60'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 53.50' S= 0.0083 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.12 cfs @ 12.09 hrs HW=54.28' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.12 cfs @ 2.77 fps)

Summary for Pond 160P: DMH 20

Inflow Area = 0.591 ac, 77.85% Impervious, Inflow Depth > 6.72" for 100-Year event
 Inflow = 4.60 cfs @ 12.09 hrs, Volume= 0.331 af
 Outflow = 4.60 cfs @ 12.09 hrs, Volume= 0.331 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.60 cfs @ 12.09 hrs, Volume= 0.331 af
 Routed to Pond 161P : DMH 19

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 56.26' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.40'	12.0" Round Culvert L= 33.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.40' / 53.23' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.48 cfs @ 12.09 hrs HW=56.15' (Free Discharge)↑**1=Culvert** (Inlet Controls 4.48 cfs @ 5.71 fps)**Summary for Pond 161P: DMH 19**

Inflow Area = 1.362 ac, 71.82% Impervious, Inflow Depth > 6.34" for 100-Year event
Inflow = 10.16 cfs @ 12.09 hrs, Volume= 0.720 af
Outflow = 10.16 cfs @ 12.09 hrs, Volume= 0.720 af, Atten= 0%, Lag= 0.0 min
Primary = 10.16 cfs @ 12.09 hrs, Volume= 0.720 af
Routed to Pond 153P : DMH 17

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 56.16' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.13'	18.0" Round Culvert L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.13' / 52.15' S= 0.0098 ' S= 0.0098 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.92 cfs @ 12.09 hrs HW=56.06' (Free Discharge)↑**1=Culvert** (Inlet Controls 9.92 cfs @ 5.62 fps)**Summary for Pond 162P: CB 15**

Inflow Area = 0.390 ac, 63.16% Impervious, Inflow Depth > 5.66" for 100-Year event
Inflow = 2.67 cfs @ 12.09 hrs, Volume= 0.184 af
Outflow = 2.67 cfs @ 12.09 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min
Primary = 2.67 cfs @ 12.09 hrs, Volume= 0.184 af
Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.04'	12.0" Round Culvert L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.04' / 50.84' S= 0.0143 ' S= 0.0143 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.61 cfs @ 12.09 hrs HW=52.30' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.61 cfs @ 3.32 fps)

Summary for Pond 163P: CB 14

Inflow Area = 0.311 ac, 63.37% Impervious, Inflow Depth > 5.66" for 100-Year event
 Inflow = 2.12 cfs @ 12.09 hrs, Volume= 0.147 af
 Outflow = 2.12 cfs @ 12.09 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.12 cfs @ 12.09 hrs, Volume= 0.147 af
 Routed to Pond 180P : DMH 9

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.94' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.08 cfs @ 12.09 hrs HW=52.10' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 2.08 cfs @ 3.14 fps)

Summary for Pond 165P: CB 19

Inflow Area = 0.209 ac, 66.66% Impervious, Inflow Depth > 5.90" for 100-Year event
 Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af
 Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	53.25'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.25' / 53.15' S= 0.0125 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=54.04' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 1.45 cfs @ 3.00 fps)

Summary for Pond 166P: DMH 13

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.97" for 100-Year event
 Inflow = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af
 Outflow = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af
 Routed to Pond 169P : DMH 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 59.43' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.16'	12.0" Round Culvert L= 92.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.16' / 51.70' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=7.10 cfs @ 12.17 hrs HW=58.78' (Free Discharge)↑**1=Culvert** (Barrel Controls 7.10 cfs @ 9.04 fps)**Summary for Pond 167P: CB 11**

Inflow Area = 0.209 ac, 65.78% Impervious, Inflow Depth > 5.90" for 100-Year event
Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.103 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.55' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 19.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0105 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.44 cfs @ 12.09 hrs HW=51.54' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.44 cfs @ 3.19 fps)**Summary for Pond 168P: CB 10**

Inflow Area = 0.231 ac, 30.05% Impervious, Inflow Depth > 3.40" for 100-Year event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.065 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.065 af
Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.37' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.79'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.79' / 50.59' S= 0.0182 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.10 hrs HW=51.37' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.96 cfs @ 2.04 fps)

Summary for Pond 169P: DMH 12

Inflow Area = 3.491 ac, 67.77% Impervious, Inflow Depth > 0.97" for 100-Year event
 Inflow = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af
 Outflow = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.62 cfs @ 12.17 hrs, Volume= 0.281 af
 Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.45' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.60'	12.0" Round Culvert L= 107.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.60' / 51.06' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=7.10 cfs @ 12.17 hrs HW=58.74' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 7.10 cfs @ 9.04 fps)

Summary for Pond 170P: CB 9

Inflow Area = 0.227 ac, 61.54% Impervious, Inflow Depth > 5.54" for 100-Year event
 Inflow = 1.52 cfs @ 12.09 hrs, Volume= 0.105 af
 Outflow = 1.52 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.52 cfs @ 12.09 hrs, Volume= 0.105 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.17' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.40'	12.0" Round Culvert L= 21.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.40' / 49.00' S= 0.0667 ' S= 0.0667 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.49 cfs @ 12.09 hrs HW=51.16' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.49 cfs @ 2.34 fps)

Summary for Pond 171P: DMH 6

Inflow Area = 2.272 ac, 49.70% Impervious, Inflow Depth > 4.52" for 100-Year event
 Inflow = 11.79 cfs @ 12.09 hrs, Volume= 0.855 af
 Outflow = 11.79 cfs @ 12.09 hrs, Volume= 0.855 af, Atten= 0%, Lag= 0.0 min
 Primary = 11.79 cfs @ 12.09 hrs, Volume= 0.855 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 52.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.80'	18.0" Round Culvert L= 130.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.80' / 47.85' S= 0.0073 ' S= 0.0073 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=11.59 cfs @ 12.09 hrs HW=52.53' (Free Discharge)↑**1=Culvert** (Inlet Controls 11.59 cfs @ 6.56 fps)**Summary for Pond 172P: CB 16**

Inflow Area = 0.317 ac, 75.85% Impervious, Inflow Depth > 6.62" for 100-Year event
Inflow = 2.45 cfs @ 12.09 hrs, Volume= 0.175 af
Outflow = 2.45 cfs @ 12.09 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
Primary = 2.45 cfs @ 12.09 hrs, Volume= 0.175 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 53.07' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.39 cfs @ 12.09 hrs HW=53.04' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.39 cfs @ 3.04 fps)**Summary for Pond 173P: CB 17**

Inflow Area = 0.130 ac, 71.18% Impervious, Inflow Depth > 6.26" for 100-Year event
Inflow = 0.96 cfs @ 12.09 hrs, Volume= 0.068 af
Outflow = 0.96 cfs @ 12.09 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min
Primary = 0.96 cfs @ 12.09 hrs, Volume= 0.068 af
Routed to Pond 174P : DMH 11

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.90'	12.0" Round Culvert L= 8.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.90' / 51.80' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=52.50' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.94 cfs @ 2.72 fps)

Summary for Pond 174P: DMH 11

Inflow Area = 3.938 ac, 68.53% Impervious, Inflow Depth > 1.60" for 100-Year event
 Inflow = 10.04 cfs @ 12.17 hrs, Volume= 0.524 af
 Outflow = 10.04 cfs @ 12.17 hrs, Volume= 0.524 af, Atten= 0%, Lag= 0.0 min
 Primary = 10.04 cfs @ 12.17 hrs, Volume= 0.524 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.92' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.96'	18.0" Round Culvert L= 22.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.96' / 50.70' S= 0.0118 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.60 cfs @ 12.17 hrs HW=53.75' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 9.60 cfs @ 5.43 fps)

Summary for Pond 175P: DMH 5

Inflow Area = 1.445 ac, 58.41% Impervious, Inflow Depth > 5.34" for 100-Year event
 Inflow = 9.32 cfs @ 12.09 hrs, Volume= 0.643 af
 Outflow = 9.32 cfs @ 12.09 hrs, Volume= 0.643 af, Atten= 0%, Lag= 0.0 min
 Primary = 9.32 cfs @ 12.09 hrs, Volume= 0.643 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.19' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.52'	18.0" Round Culvert L= 103.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.52' / 49.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.12 cfs @ 12.09 hrs HW=52.11' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 9.12 cfs @ 5.16 fps)

Summary for Pond 176P: CB 6

Inflow Area = 0.199 ac, 57.72% Impervious, Inflow Depth > 5.30" for 100-Year event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.088 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

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Peak Elev= 50.51' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0133 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.26 cfs @ 12.09 hrs HW=50.50' (Free Discharge)↑**1=Culvert** (Inlet Controls 1.26 cfs @ 2.21 fps)**Summary for Pond 177P: CB 13**

Inflow Area = 0.319 ac, 64.43% Impervious, Inflow Depth > 5.78" for 100-Year event
Inflow = 2.22 cfs @ 12.09 hrs, Volume= 0.154 af
Outflow = 2.22 cfs @ 12.09 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.0 min
Primary = 2.22 cfs @ 12.09 hrs, Volume= 0.154 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.32' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.17 cfs @ 12.09 hrs HW=52.30' (Free Discharge)↑**1=Culvert** (Barrel Controls 2.17 cfs @ 3.28 fps)**Summary for Pond 178P: CB 12**

Inflow Area = 0.152 ac, 60.77% Impervious, Inflow Depth > 5.54" for 100-Year event
Inflow = 1.02 cfs @ 12.09 hrs, Volume= 0.070 af
Outflow = 1.02 cfs @ 12.09 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
Primary = 1.02 cfs @ 12.09 hrs, Volume= 0.070 af
Routed to Pond 179P : DMH 8

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 51.89' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.25'	12.0" Round Culvert L= 11.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.25' / 51.15' S= 0.0091 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=51.88' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.00 cfs @ 2.71 fps)

Summary for Pond 179P: DMH 8

Inflow Area = 0.472 ac, 63.25% Impervious, Inflow Depth > 5.70" for 100-Year event
 Inflow = 3.24 cfs @ 12.09 hrs, Volume= 0.224 af
 Outflow = 3.24 cfs @ 12.09 hrs, Volume= 0.224 af, Atten= 0%, Lag= 0.0 min
 Primary = 3.24 cfs @ 12.09 hrs, Volume= 0.224 af
 Routed to Pond 217P : DMH 8A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.79' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.05'	12.0" Round Culvert L= 70.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.05' / 50.70' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.17 cfs @ 12.09 hrs HW=52.74' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 3.17 cfs @ 4.04 fps)

Summary for Pond 180P: DMH 9

Inflow Area = 0.701 ac, 63.25% Impervious, Inflow Depth > 5.66" for 100-Year event
 Inflow = 4.79 cfs @ 12.09 hrs, Volume= 0.331 af
 Outflow = 4.79 cfs @ 12.09 hrs, Volume= 0.331 af, Atten= 0%, Lag= 0.0 min
 Primary = 4.79 cfs @ 12.09 hrs, Volume= 0.331 af
 Routed to Pond 181P : DMH 7

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.56' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.84'	15.0" Round Culvert L= 49.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.84' / 50.59' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.62 cfs @ 12.09 hrs HW=52.51' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 4.62 cfs @ 3.77 fps)

Summary for Pond 181P: DMH 7

Inflow Area = 1.141 ac, 56.99% Impervious, Inflow Depth > 5.24" for 100-Year event
 Inflow = 7.23 cfs @ 12.09 hrs, Volume= 0.499 af
 Outflow = 7.23 cfs @ 12.09 hrs, Volume= 0.499 af, Atten= 0%, Lag= 0.0 min
 Primary = 7.23 cfs @ 12.09 hrs, Volume= 0.499 af
 Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.08' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.49'	15.0" Round Culvert L= 174.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.49' / 49.62' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.09 cfs @ 12.09 hrs HW=53.96' (Free Discharge)↑**1=Culvert** (Barrel Controls 7.09 cfs @ 5.78 fps)**Summary for Pond 182P: CB 7**

Inflow Area = 0.105 ac, 75.17% Impervious, Inflow Depth > 6.50" for 100-Year event
Inflow = 0.80 cfs @ 12.09 hrs, Volume= 0.057 af
Outflow = 0.80 cfs @ 12.09 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 12.09 hrs, Volume= 0.057 af
Routed to Pond 175P : DMH 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.35' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.82'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.82' / 49.62' S= 0.0080 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.78 cfs @ 12.09 hrs HW=50.34' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.78 cfs @ 2.72 fps)**Summary for Pond 188P: CB 3**

Inflow Area = 0.158 ac, 54.66% Impervious, Inflow Depth > 4.94" for 100-Year event
Inflow = 0.96 cfs @ 12.09 hrs, Volume= 0.065 af
Outflow = 0.96 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
Primary = 0.96 cfs @ 12.09 hrs, Volume= 0.065 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 48.58' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 101.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0099 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=48.57' (Free Discharge)↑**1=Culvert** (Inlet Controls 0.94 cfs @ 2.03 fps)

Summary for Pond 189P: CB 4

Inflow Area = 0.282 ac, 69.07% Impervious, Inflow Depth > 6.14" for 100-Year event
 Inflow = 2.06 cfs @ 12.09 hrs, Volume= 0.144 af
 Outflow = 2.06 cfs @ 12.09 hrs, Volume= 0.144 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.06 cfs @ 12.09 hrs, Volume= 0.144 af
 Routed to Reach 204R : WATER QUALITY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 48.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.00'	12.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.00' / 47.00' S= 0.0116 ' S= 0.0116 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.02 cfs @ 12.09 hrs HW=48.95' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.02 cfs @ 2.62 fps)

Summary for Pond 191P: CB 42

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 7.29" for 100-Year event
 Inflow = 2.28 cfs @ 12.09 hrs, Volume= 0.168 af
 Outflow = 2.28 cfs @ 12.09 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min
 Primary = 2.28 cfs @ 12.09 hrs, Volume= 0.168 af
 Routed to Pond 238P : SUB. INF 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.58' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	12.0" Round Culvert L= 194.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.50' / 49.00' S= 0.0077 ' S= 0.0077 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.22 cfs @ 12.09 hrs HW=51.55' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 2.22 cfs @ 2.83 fps)

Summary for Pond 193P: CB 1

Inflow Area = 0.172 ac, 31.70% Impervious, Inflow Depth > 2.93" for 100-Year event
 Inflow = 0.61 cfs @ 12.10 hrs, Volume= 0.042 af
 Outflow = 0.61 cfs @ 12.10 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.10 hrs, Volume= 0.042 af
 Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 47.33' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.84'	12.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.84' / 46.71' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.10 hrs HW=47.33' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.61 cfs @ 2.34 fps)**Summary for Pond 194P: CB 2**

Inflow Area = 0.094 ac, 74.38% Impervious, Inflow Depth > 6.50" for 100-Year event
Inflow = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af
Outflow = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af
Routed to Pond 200P : DMH 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.34' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.81'	12.0" Round Culvert L= 15.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.81' / 46.71' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=47.33' (Free Discharge)↑**1=Culvert** (Barrel Controls 0.70 cfs @ 2.44 fps)**Summary for Pond 196P: CB 5**

Inflow Area = 0.336 ac, 80.22% Impervious, Inflow Depth > 6.85" for 100-Year event
Inflow = 2.65 cfs @ 12.09 hrs, Volume= 0.192 af
Outflow = 2.65 cfs @ 12.09 hrs, Volume= 0.192 af, Atten= 0%, Lag= 0.0 min
Primary = 2.65 cfs @ 12.09 hrs, Volume= 0.192 af
Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 50.29' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.00'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.00' / 48.50' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.59 cfs @ 12.09 hrs HW=50.25' (Free Discharge)↑**1=Culvert** (Inlet Controls 2.59 cfs @ 3.29 fps)

Summary for Pond 197P: Inf. Basin 1

Inflow Area = 8.503 ac, 57.81% Impervious, Inflow Depth > 0.74" for 100-Year event
 Inflow = 10.40 cfs @ 12.30 hrs, Volume= 0.525 af
 Outflow = 4.97 cfs @ 12.50 hrs, Volume= 0.525 af, Atten= 52%, Lag= 11.5 min
 Discarded = 2.34 cfs @ 12.50 hrs, Volume= 0.400 af
 Primary = 2.62 cfs @ 12.50 hrs, Volume= 0.125 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 47.60' @ 12.50 hrs Surf.Area= 3,211 sf Storage= 5,283 cf

Plug-Flow detention time= 15.7 min calculated for 0.523 af (100% of inflow)
 Center-of-Mass det. time= 15.4 min (799.9 - 784.5)

Volume	Invert	Avail.Storage	Storage Description
#1	45.50'	6,632 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
45.50	1,870	0	0
46.00	2,165	1,009	1,009
47.00	2,795	2,480	3,489
48.00	3,492	3,144	6,632

Device	Routing	Invert	Outlet Devices
#1	Discarded	45.50'	8.200 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 45.00'
#2	Primary	45.00'	10.0" Round Culvert L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 45.00' / 43.50' S= 0.0600 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.55 sf
#3	Device 2	46.60'	10.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=2.34 cfs @ 12.50 hrs HW=47.60' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 2.34 cfs)

Primary OutFlow Max=2.62 cfs @ 12.50 hrs HW=47.60' (Free Discharge)
 ↑ **2=Culvert** (Passes 2.62 cfs of 3.06 cfs potential flow)
 ↑ **3=Orifice/Grate** (Orifice Controls 2.62 cfs @ 4.80 fps)

Summary for Pond 198P: Sub. Inf. 2

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 6.32" for 100-Year event
 Inflow = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af
 Outflow = 10.17 cfs @ 12.16 hrs, Volume= 0.911 af, Atten= 21%, Lag= 4.5 min
 Discarded = 5.98 cfs @ 12.17 hrs, Volume= 0.874 af
 Primary = 4.20 cfs @ 12.16 hrs, Volume= 0.038 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 54.63' @ 12.17 hrs Surf.Area= 2,788 sf Storage= 5,986 cf

Plug-Flow detention time= 7.6 min calculated for 0.908 af (100% of inflow)

Center-of-Mass det. time= 7.5 min (771.5 - 764.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	51.00'	2,514 cf	25.25'W x 110.42'L x 3.50'H Field A 9,758 cf Overall - 3,472 cf Embedded = 6,286 cf x 40.0% Voids
#2A	51.50'	3,472 cf	ADS_StormTech SC-740 b +Cap x 75 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 75 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		5,986 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	51.00'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 50.00'
#2	Primary	52.75'	12.0" Round Culvert L= 10.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 52.75' / 52.65' S= 0.0100 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	54.00'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=5.85 cfs @ 12.17 hrs HW=54.53' (Free Discharge)↑ **1=Exfiltration** (Controls 5.85 cfs)**Primary OutFlow** Max=3.67 cfs @ 12.16 hrs HW=54.55' (Free Discharge)↑ **2=Culvert** (Passes 3.67 cfs of 4.85 cfs potential flow)↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 3.67 cfs @ 2.24 fps)**Summary for Pond 200P: DMH 1**

Inflow Area = 0.265 ac, 46.75% Impervious, Inflow Depth > 4.19" for 100-Year event
Inflow = 1.32 cfs @ 12.09 hrs, Volume= 0.093 af
Outflow = 1.32 cfs @ 12.09 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
Primary = 1.32 cfs @ 12.09 hrs, Volume= 0.093 af
Routed to Reach 204R : WATER QUALTY SWALW

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 47.42' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	46.70'	12.0" Round Culvert L= 208.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 46.70' / 45.70' S= 0.0048 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=47.41' (Free Discharge)

↑**1=Culvert** (Barrel Controls 1.30 cfs @ 3.06 fps)

Summary for Pond 201P: Sub. Inf. 3

Inflow Area = 1.343 ac, 61.65% Impervious, Inflow Depth > 5.57" for 100-Year event
 Inflow = 8.94 cfs @ 12.09 hrs, Volume= 0.624 af
 Outflow = 6.04 cfs @ 12.21 hrs, Volume= 0.624 af, Atten= 32%, Lag= 7.0 min
 Discarded = 3.45 cfs @ 12.21 hrs, Volume= 0.598 af
 Primary = 2.59 cfs @ 12.21 hrs, Volume= 0.026 af
 Routed to Pond 202P : DMH 14

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.94' @ 12.21 hrs Surf.Area= 2,264 sf Storage= 4,784 cf

Plug-Flow detention time= 9.8 min calculated for 0.624 af (100% of inflow)
 Center-of-Mass det. time= 9.8 min (782.3 - 772.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	52.50'	2,058 cf	20.50'W x 110.42'L x 3.50'H Field A 7,922 cf Overall - 2,778 cf Embedded = 5,145 cf x 40.0% Voids
#2A	53.00'	2,778 cf	ADS StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
4,836 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	52.50'	20.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 51.00'
#2	Primary	54.00'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 54.00' / 53.65' S= 0.0175 ' S= 0.0175 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	55.50'	3.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=3.43 cfs @ 12.21 hrs HW=55.92' (Free Discharge)

↑**1=Exfiltration** (Controls 3.43 cfs)

Primary OutFlow Max=2.39 cfs @ 12.21 hrs HW=55.92' (Free Discharge)

↑**2=Culvert** (Passes 2.39 cfs of 3.56 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 2.39 cfs @ 1.90 fps)

Summary for Pond 202P: DMH 14

Inflow Area = 3.074 ac, 67.24% Impervious, Inflow Depth = 0.25" for 100-Year event
 Inflow = 5.37 cfs @ 12.19 hrs, Volume= 0.064 af
 Outflow = 5.37 cfs @ 12.19 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.37 cfs @ 12.19 hrs, Volume= 0.064 af
 Routed to Pond 166P : DMH 13

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.04' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	18.0" Round Culvert L= 89.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.65' / 52.16' S= 0.0055 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.09 cfs @ 12.19 hrs HW=53.99' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 5.09 cfs @ 4.06 fps)

Summary for Pond 204P: DMH 18

Inflow Area = 1.731 ac, 71.57% Impervious, Inflow Depth > 6.32" for 100-Year event
 Inflow = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af
 Outflow = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.89 cfs @ 12.09 hrs, Volume= 0.912 af
 Routed to Pond 198P : Sub. Inf. 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 55.97' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.55'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.55' / 51.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=12.58 cfs @ 12.09 hrs HW=55.81' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 12.58 cfs @ 7.12 fps)

Summary for Pond 205P: DMH 27

Inflow Area = 0.746 ac, 74.14% Impervious, Inflow Depth > 6.47" for 100-Year event
 Inflow = 5.65 cfs @ 12.09 hrs, Volume= 0.402 af
 Outflow = 5.65 cfs @ 12.09 hrs, Volume= 0.402 af, Atten= 0%, Lag= 0.0 min
 Primary = 5.65 cfs @ 12.09 hrs, Volume= 0.402 af
 Routed to Pond 201P : Sub. Inf. 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 56.77' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	52.70'	12.0" Round Culvert L= 16.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 52.70' / 52.60' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=5.52 cfs @ 12.09 hrs HW=56.61' (Free Discharge)↑**1=Culvert** (Inlet Controls 5.52 cfs @ 7.02 fps)**Summary for Pond 206P: DMH 34**

Inflow Area = 1.284 ac, 75.37% Impervious, Inflow Depth > 6.00" for 100-Year event
Inflow = 9.14 cfs @ 12.10 hrs, Volume= 0.642 af
Outflow = 9.14 cfs @ 12.10 hrs, Volume= 0.642 af, Atten= 0%, Lag= 0.0 min
Primary = 9.14 cfs @ 12.10 hrs, Volume= 0.642 af
Routed to Pond 49P : Sub. Inf. 4

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 58.96' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	15.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 53.60' / 54.50' S= -0.1800 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=9.13 cfs @ 12.10 hrs HW=58.95' (Free Discharge)↑**1=Culvert** (Inlet Controls 9.13 cfs @ 7.44 fps)**Summary for Pond 207P: level spreader 7.8.9**

Inflow Area = 3.450 ac, 70.15% Impervious, Inflow Depth > 5.94" for 100-Year event
Inflow = 28.64 cfs @ 12.09 hrs, Volume= 1.709 af
Outflow = 28.65 cfs @ 12.10 hrs, Volume= 1.706 af, Atten= 0%, Lag= 0.0 min
Primary = 28.65 cfs @ 12.10 hrs, Volume= 1.706 af
Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 57.44' @ 12.09 hrs Surf.Area= 247 sf Storage= 229 cf

Plug-Flow detention time= 1.1 min calculated for 1.701 af (99% of inflow)

Center-of-Mass det. time= 0.3 min (772.1 - 771.8)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=28.22 cfs @ 12.10 hrs HW=57.44' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 28.22 cfs @ 1.80 fps)**Summary for Pond 208P: level spreader DB6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 5.96" for 100-Year event
 Inflow = 9.98 cfs @ 12.20 hrs, Volume= 0.930 af
 Outflow = 10.01 cfs @ 12.20 hrs, Volume= 0.927 af, Atten= 0%, Lag= 0.0 min
 Primary = 10.01 cfs @ 12.20 hrs, Volume= 0.927 af
 Routed to Link 188L : DP 3

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.22' @ 12.20 hrs Surf.Area= 220 sf Storage= 177 cf

Plug-Flow detention time= 2.4 min calculated for 0.927 af (100% of inflow)
 Center-of-Mass det. time= 1.1 min (796.3 - 795.1)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	70	0	0
52.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=10.00 cfs @ 12.20 hrs HW=52.22' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 10.00 cfs @ 1.27 fps)

Summary for Pond 209P: level spreader 5

Inflow Area = 0.608 ac, 68.77% Impervious, Inflow Depth > 5.60" for 100-Year event
 Inflow = 4.72 cfs @ 12.11 hrs, Volume= 0.284 af
 Outflow = 4.71 cfs @ 12.11 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.1 min
 Primary = 4.71 cfs @ 12.11 hrs, Volume= 0.281 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.14' @ 12.11 hrs Surf.Area= 209 sf Storage= 158 cf

Plug-Flow detention time= 5.7 min calculated for 0.281 af (99% of inflow)
 Center-of-Mass det. time= 1.4 min (772.3 - 770.8)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=4.62 cfs @ 12.11 hrs HW=57.13' (Free Discharge)
 1=Broad-Crested Rectangular Weir (Weir Controls 4.62 cfs @ 0.98 fps)

Summary for Pond 210P: level spreader 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 6.13" for 100-Year event
 Inflow = 5.80 cfs @ 12.09 hrs, Volume= 0.351 af
 Outflow = 5.80 cfs @ 12.09 hrs, Volume= 0.348 af, Atten= 0%, Lag= 0.1 min
 Primary = 5.80 cfs @ 12.09 hrs, Volume= 0.348 af
 Routed to Link 60L : DP 2

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.16' @ 12.09 hrs Surf.Area= 212 sf Storage= 163 cf

Plug-Flow detention time= 4.9 min calculated for 0.348 af (99% of inflow)
 Center-of-Mass det. time= 1.4 min (769.2 - 767.8)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	70	0	0
57.50	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	57.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=5.64 cfs @ 12.09 hrs HW=57.15' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 5.64 cfs @ 1.05 fps)**Summary for Pond 211P: level spreader 4**

Inflow Area = 1.756 ac, 75.93% Impervious, Inflow Depth > 4.58" for 100-Year event
 Inflow = 11.23 cfs @ 12.14 hrs, Volume= 0.671 af
 Outflow = 11.25 cfs @ 12.14 hrs, Volume= 0.670 af, Atten= 0%, Lag= 0.1 min
 Primary = 11.25 cfs @ 12.14 hrs, Volume= 0.670 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.24' @ 12.14 hrs Surf.Area= 161 sf Storage= 85 cf

Plug-Flow detention time= 0.9 min calculated for 0.670 af (100% of inflow)

Center-of-Mass det. time= 0.2 min (790.2 - 789.9)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=11.19 cfs @ 12.14 hrs HW=52.24' (Free Discharge)↑**1=Broad-Crested Rectangular Weir** (Weir Controls 11.19 cfs @ 1.32 fps)

Summary for Pond 212P: level spreader DB5

Inflow Area = 1.997 ac, 65.39% Impervious, Inflow Depth > 5.13" for 100-Year event
 Inflow = 8.45 cfs @ 12.25 hrs, Volume= 0.853 af
 Outflow = 8.40 cfs @ 12.25 hrs, Volume= 0.852 af, Atten= 1%, Lag= 0.0 min
 Primary = 8.40 cfs @ 12.25 hrs, Volume= 0.852 af
 Routed to Link 59L : DP 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.20' @ 12.25 hrs Surf.Area= 156 sf Storage= 79 cf

Plug-Flow detention time= 0.9 min calculated for 0.849 af (100% of inflow)
 Center-of-Mass det. time= 0.4 min (859.5 - 859.0)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	243 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	70	0	0
53.00	254	243	243

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	35.0' long + 2.0 ' SideZ x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Primary OutFlow Max=8.37 cfs @ 12.25 hrs HW=52.20' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir** (Weir Controls 8.37 cfs @ 1.19 fps)

Summary for Pond 215P: CB 5A

Inflow Area = 0.149 ac, 77.32% Impervious, Inflow Depth > 6.73" for 100-Year event
 Inflow = 1.16 cfs @ 12.09 hrs, Volume= 0.084 af
 Outflow = 1.16 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.09 hrs, Volume= 0.084 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 49.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	48.40'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 48.40' / 48.20' S= 0.0154 ' S= 0.0154 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=49.04' (Free Discharge)

↑**1=Culvert** (Inlet Controls 1.13 cfs @ 2.15 fps)

Summary for Pond 216P: CB 8A

Inflow Area = 0.484 ac, 16.33% Impervious, Inflow Depth > 1.39" for 100-Year event
 Inflow = 0.49 cfs @ 12.27 hrs, Volume= 0.056 af
 Outflow = 0.49 cfs @ 12.27 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.49 cfs @ 12.27 hrs, Volume= 0.056 af
 Routed to Pond 171P : DMH 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 50.03' @ 12.27 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	49.63'	12.0" Round Culvert L= 63.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 49.63' / 49.00' S= 0.0100 ' S= 0.0100 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.27 hrs HW=50.03' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.49 cfs @ 1.69 fps)

Summary for Pond 217P: DMH 8A

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 2.03" for 100-Year event
 Inflow = 12.47 cfs @ 12.16 hrs, Volume= 0.748 af
 Outflow = 12.47 cfs @ 12.16 hrs, Volume= 0.748 af, Atten= 0%, Lag= 0.0 min
 Primary = 12.47 cfs @ 12.16 hrs, Volume= 0.748 af
 Routed to Pond 245P : SUB ONF. 1B

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 54.79' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	50.60'	18.0" Round Culvert L= 5.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 50.60' / 50.50' S= 0.0200 ' S= 0.0200 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=12.20 cfs @ 12.16 hrs HW=54.65' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 12.20 cfs @ 6.91 fps)

Summary for Pond 218P: CB A

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 5.78" for 100-Year event
 Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af
 Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
 Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af
 Routed to Pond 219P : DMH A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 52.63' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.85'	12.0" Round Culvert L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.85' / 51.32' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.46 cfs @ 12.09 hrs HW=52.62' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.46 cfs @ 3.10 fps)**Summary for Pond 219P: DMH A**

Inflow Area = 0.214 ac, 64.54% Impervious, Inflow Depth > 5.78" for 100-Year event
Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.103 af
Routed to Pond 54P : DMH 15

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 52.05' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	51.27'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 51.27' / 50.93' S= 0.0057 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.46 cfs @ 12.09 hrs HW=52.04' (Free Discharge)↑**1=Culvert** (Barrel Controls 1.46 cfs @ 3.09 fps)**Summary for Pond 221P: DET Basin 6**

Inflow Area = 1.872 ac, 76.22% Impervious, Inflow Depth > 6.37" for 100-Year event
Inflow = 17.66 cfs @ 12.10 hrs, Volume= 0.994 af
Outflow = 9.98 cfs @ 12.20 hrs, Volume= 0.930 af, Atten= 43%, Lag= 6.1 min
Primary = 9.98 cfs @ 12.20 hrs, Volume= 0.930 af
Routed to Pond 208P : level spreader DB6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 54.35' @ 12.20 hrs Surf.Area= 5,288 sf Storage= 8,688 cf

Plug-Flow detention time= 56.3 min calculated for 0.930 af (94% of inflow)

Center-of-Mass det. time= 35.1 min (795.1 - 760.0)

Volume	Invert	Avail.Storage	Storage Description
#1	52.00'	12,315 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	2,498	0	0
53.00	3,157	2,828	2,828
54.00	4,968	4,063	6,890
55.00	5,881	5,425	12,315

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	18.0" Round Culvert L= 34.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 52.00' / 51.80' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	52.00'	3.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	53.50'	24.0" x 24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.98 cfs @ 12.20 hrs HW=54.35' (Free Discharge)

- 1=Culvert (Barrel Controls 9.98 cfs @ 5.65 fps)
 2=Orifice/Grate (Passes < 0.48 cfs potential flow)
 3=Orifice/Grate (Passes < 17.76 cfs potential flow)

Summary for Pond 223P: Sub. Inf. 4B

Inflow Area = 1.656 ac, 78.05% Impervious, Inflow Depth > 7.57" for 100-Year event
 Inflow = 13.86 cfs @ 12.09 hrs, Volume= 1.044 af
 Outflow = 13.78 cfs @ 12.10 hrs, Volume= 0.963 af, Atten= 1%, Lag= 0.8 min
 Discarded = 0.03 cfs @ 5.10 hrs, Volume= 0.038 af
 Primary = 13.75 cfs @ 12.10 hrs, Volume= 0.925 af
 Routed to Pond 15P : Det. Basin 5

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 62.92' @ 12.10 hrs Surf.Area= 1,296 sf Storage= 4,451 cf

Plug-Flow detention time= 52.4 min calculated for 0.960 af (92% of inflow)
 Center-of-Mass det. time= 24.8 min (766.8 - 742.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	588 cf	18.00"W x 72.00"L x 5.17"H Field A 6,700 cf Overall - 5,230 cf Embedded = 1,470 cf x 40.0% Voids
#2A	59.00'	4,000 cf	Shea Leaching Chamber 8x14x4.7 x 10 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 10 Chambers in 2 Rows
		4,588 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area
#2	Primary	58.00'	18.0" Round Culvert L= 54.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 58.00' / 54.00' S= 0.0741 '/' Cc= 0.900

#3 Device 2 62.00' n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
4.0' long + 1.0 ' SideZ x 0.5' breadth Broad-Crested Rectangular Weir
 Head (feet) 0.20 0.40 0.60 0.80 1.00
 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.03 cfs @ 5.10 hrs HW=58.58' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=13.73 cfs @ 12.10 hrs HW=62.92' (Free Discharge)

↑**2=Culvert** (Passes 13.73 cfs of 17.37 cfs potential flow)

↑**3=Broad-Crested Rectangular Weir** (Weir Controls 13.73 cfs @ 3.05 fps)

Summary for Pond 231P: Sub inf. 4A

Inflow Area = 0.514 ac, 88.33% Impervious, Inflow Depth > 7.79" for 100-Year event
 Inflow = 4.36 cfs @ 12.09 hrs, Volume= 0.334 af
 Outflow = 3.23 cfs @ 12.16 hrs, Volume= 0.225 af, Atten= 26%, Lag= 4.6 min
 Discarded = 0.04 cfs @ 5.40 hrs, Volume= 0.044 af
 Primary = 3.20 cfs @ 12.16 hrs, Volume= 0.181 af
 Routed to Pond 43P : DMH 35

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 59.72' @ 12.16 hrs Surf.Area= 1,508 sf Storage= 5,636 cf

Plug-Flow detention time= 122.1 min calculated for 0.224 af (67% of inflow)

Center-of-Mass det. time= 51.7 min (789.0 - 737.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	674 cf	26.00'W x 58.00'L x 6.17'H Field A 9,304 cf Overall - 7,620 cf Embedded = 1,684 cf x 40.0% Voids
#2A	55.50'	6,000 cf	Shea Leaching Chamber 8x14x5.7 x 12 Inside #1 Inside= 84.0"W x 60.0"H => 38.46 sf x 13.00'L = 500.0 cf Outside= 96.0"W x 68.0"H => 45.36 sf x 14.00'L = 635.0 cf 12 Chambers in 3 Rows
		6,674 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	59.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.04 cfs @ 5.40 hrs HW=55.07' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=3.17 cfs @ 12.16 hrs HW=59.70' (Free Discharge)

↑**2=Orifice/Grate** (Orifice Controls 3.17 cfs @ 4.03 fps)

Summary for Pond 233P: SUB. INF. 11

Inflow Area = 0.862 ac, 81.83% Impervious, Inflow Depth > 7.64" for 100-Year event
 Inflow = 7.26 cfs @ 12.09 hrs, Volume= 0.549 af
 Outflow = 9.43 cfs @ 12.10 hrs, Volume= 0.541 af, Atten= 0%, Lag= 0.8 min
 Discarded = 0.04 cfs @ 12.10 hrs, Volume= 0.036 af
 Primary = 9.39 cfs @ 12.10 hrs, Volume= 0.505 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.47' @ 12.10 hrs Surf.Area= 1,044 sf Storage= 1,955 cf

Plug-Flow detention time= 17.4 min calculated for 0.539 af (98% of inflow)
 Center-of-Mass det. time= 11.2 min (751.9 - 740.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	59.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 54.00'
#2	Primary	59.00'	12.0" Round Culvert L= 35.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 59.00' / 53.00' S= 0.1714 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Primary	60.90'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.10 hrs HW=61.46' (Free Discharge)

↑ **1=Exfiltration** (Controls 0.04 cfs)

Primary OutFlow Max=9.36 cfs @ 12.10 hrs HW=61.46' (Free Discharge)

↑ **2=Culvert** (Inlet Controls 4.18 cfs @ 5.33 fps)

↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 5.17 cfs @ 2.29 fps)

Summary for Pond 235P: ILSF BASIN

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 5.69" for 100-Year event
 Inflow = 53.86 cfs @ 12.10 hrs, Volume= 3.379 af
 Outflow = 23.66 cfs @ 12.31 hrs, Volume= 3.256 af, Atten= 56%, Lag= 12.4 min
 Primary = 23.66 cfs @ 12.31 hrs, Volume= 3.256 af
 Routed to Link 188L : DP 3

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Type III 24-hr 100-Year Rainfall=8.94"

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Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.77' @ 12.31 hrs Surf.Area= 38,838 sf Storage= 54,245 cf

Plug-Flow detention time= 69.9 min calculated for 3.256 af (96% of inflow)
 Center-of-Mass det. time= 56.8 min (831.1 - 774.3)

Volume	Invert	Avail.Storage	Storage Description
#1	56.00'	63,266 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
56.00	16,688	0	0
57.00	34,922	25,805	25,805
58.00	40,000	37,461	63,266

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	8.0" Vert. Orifice/Grate X 3.00 C= 0.600 Limited to weir flow at low heads
#2	Primary	57.00'	10.0' long x 2.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=23.63 cfs @ 12.31 hrs HW=57.77' (Free Discharge)

↑ **1=Orifice/Grate** (Orifice Controls 6.04 cfs @ 5.77 fps)

↓ **2=Broad-Crested Rectangular Weir** (Weir Controls 17.59 cfs @ 2.28 fps)

Summary for Pond 238P: SUB. INF 3A

Inflow Area = 0.277 ac, 85.87% Impervious, Inflow Depth > 7.29" for 100-Year event
 Inflow = 2.28 cfs @ 12.09 hrs, Volume= 0.168 af
 Outflow = 0.48 cfs @ 11.75 hrs, Volume= 0.168 af, Atten= 79%, Lag= 0.0 min
 Discarded = 0.48 cfs @ 11.75 hrs, Volume= 0.168 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 51.34' @ 12.50 hrs Surf.Area= 1,044 sf Storage= 1,790 cf

Plug-Flow detention time= 20.1 min calculated for 0.168 af (100% of inflow)
 Center-of-Mass det. time= 19.9 min (767.6 - 747.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	426 cf	18.00'W x 58.00'L x 4.17'H Field A 4,353 cf Overall - 3,288 cf Embedded = 1,065 cf x 40.0% Voids
#2A	49.50'	2,400 cf	Shea Leaching Chamber 8x14x3.7 x 8 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 8 Chambers in 2 Rows
		2,826 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	20.000 in/hr Exfiltration over Surface area
#2	Primary	53.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.48 cfs @ 11.75 hrs HW=49.07' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.48 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=49.00' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 239P: INF 3C

Inflow Area = 0.250 ac, 80.29% Impervious, Inflow Depth > 6.85" for 100-Year event
 Inflow = 1.98 cfs @ 12.09 hrs, Volume= 0.143 af
 Outflow = 0.36 cfs @ 11.70 hrs, Volume= 0.143 af, Atten= 82%, Lag= 0.0 min
 Discarded = 0.36 cfs @ 11.70 hrs, Volume= 0.143 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 56.76' @ 12.54 hrs Surf.Area= 1,044 sf Storage= 1,717 cf

Plug-Flow detention time= 28.0 min calculated for 0.143 af (100% of inflow)
 Center-of-Mass det. time= 27.9 min (783.6 - 755.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.50'	367 cf	18.00'W x 58.00'L x 3.17'H Field A 3,309 cf Overall - 2,392 cf Embedded = 917 cf x 40.0% Voids
#2A	55.00'	1,600 cf	Shea Leaching Chamber 8x14x2.7 x 8 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 8 Chambers in 2 Rows
		1,967 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	58.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.36 cfs @ 11.70 hrs HW=54.54' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.36 cfs)

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=54.50' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 240P: Sub. Inf. 3B

Inflow Area = 1.365 ac, 60.63% Impervious, Inflow Depth > 5.47" for 100-Year event
 Inflow = 8.82 cfs @ 12.09 hrs, Volume= 0.623 af
 Outflow = 4.20 cfs @ 12.27 hrs, Volume= 0.623 af, Atten= 52%, Lag= 10.8 min
 Discarded = 3.97 cfs @ 12.27 hrs, Volume= 0.621 af
 Primary = 0.22 cfs @ 12.27 hrs, Volume= 0.002 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.09' @ 12.27 hrs Surf.Area= 2,249 sf Storage= 4,449 cf

Plug-Flow detention time= 7.3 min calculated for 0.623 af (100% of inflow)
 Center-of-Mass det. time= 7.2 min (778.6 - 771.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	49.00'	2,035 cf	25.25'W x 89.06'L x 3.50'H Field A 7,870 cf Overall - 2,783 cf Embedded = 5,087 cf x 40.0% Voids
#2A	49.50'	2,783 cf	ADS_StormTech SC-740 b +Cap x 60 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 60 Chambers in 5 Rows Cap Storage= 2.7 cf x 2 x 5 rows = 26.5 cf
		4,818 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	49.00'	30.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	51.90'	1.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=3.96 cfs @ 12.27 hrs HW=52.07' (Free Discharge)
 ↳ **1=Exfiltration** (Controls 3.96 cfs)

Primary OutFlow Max=0.19 cfs @ 12.27 hrs HW=52.07' (Free Discharge)
 ↳ **2=Broad-Crested Rectangular Weir** (Weir Controls 0.19 cfs @ 1.15 fps)

Summary for Pond 241P: Sub. Inf. 12

Inflow Area = 0.688 ac, 87.30% Impervious, Inflow Depth > 7.73" for 100-Year event
 Inflow = 5.82 cfs @ 12.09 hrs, Volume= 0.443 af
 Outflow = 5.83 cfs @ 12.09 hrs, Volume= 0.393 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.04 cfs @ 12.09 hrs, Volume= 0.042 af
 Primary = 5.80 cfs @ 12.09 hrs, Volume= 0.351 af
 Routed to Pond 210P : level spreader 12

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 59.30' @ 12.09 hrs Surf.Area= 1,096 sf Storage= 2,319 cf

Plug-Flow detention time= 67.6 min calculated for 0.393 af (89% of inflow)

Center-of-Mass det. time= 29.9 min (768.4 - 738.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.50'	1,011 cf	20.50'W x 53.46'L x 3.50'H Field A 3,836 cf Overall - 1,308 cf Embedded = 2,528 cf x 40.0% Voids
#2A	56.00'	1,308 cf	ADS_StormTech SC-740 b +Cap x 28 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 28 Chambers in 4 Rows Cap Storage= 2.7 cf x 2 x 4 rows = 21.2 cf
		2,319 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	55.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 47.00'
#2	Primary	56.00'	15.0" Round Culvert L= 100.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 56.00' / 56.00' S= 0.0000 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	58.70'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=0.04 cfs @ 12.09 hrs HW=59.29' (Free Discharge)↑ **1=Exfiltration** (Controls 0.04 cfs)**Primary OutFlow** Max=5.63 cfs @ 12.09 hrs HW=59.29' (Free Discharge)↑ **2=Culvert** (Passes 5.63 cfs of 7.19 cfs potential flow)↑ **3=Broad-Crested Rectangular Weir** (Weir Controls 5.63 cfs @ 2.37 fps)**Summary for Pond 242P: SUB INF.1C**

Inflow Area = 7.166 ac, 62.94% Impervious, Inflow Depth > 1.77" for 100-Year event
Inflow = 14.44 cfs @ 12.09 hrs, Volume= 1.059 af
Outflow = 8.22 cfs @ 12.31 hrs, Volume= 1.058 af, Atten= 43%, Lag= 12.9 min
Discarded = 1.28 cfs @ 11.55 hrs, Volume= 0.907 af
Primary = 6.93 cfs @ 12.31 hrs, Volume= 0.151 af
Routed to Pond 197P : Inf. Basin 1

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 53.05' @ 12.30 hrs Surf.Area= 3,692 sf Storage= 13,359 cf

Plug-Flow detention time= 72.6 min calculated for 1.058 af (100% of inflow)

Center-of-Mass det. time= 72.4 min (849.6 - 777.2)

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Volume	Invert	Avail.Storage	Storage Description
#1A	47.50'	1,359 cf	26.00'W x 142.00'L x 5.17'H Field A 19,088 cf Overall - 15,691 cf Embedded = 3,396 cf x 40.0% Voids
#2A	48.00'	12,000 cf	Shea Leaching Chamber 8x14x4.7 x 30 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 30 Chambers in 3 Rows
		13,359 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.50'	15.000 in/hr Exfiltration over Surface area
#2	Primary	51.70'	15.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.28 cfs @ 11.55 hrs HW=47.56' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 1.28 cfs)**Primary OutFlow** Max=6.53 cfs @ 12.31 hrs HW=52.92' (Free Discharge)↑**2=Orifice/Grate** (Orifice Controls 6.53 cfs @ 5.32 fps)**Summary for Pond 244P: SUB INF. 1A**

Inflow Area = 4.558 ac, 68.27% Impervious, Inflow Depth > 0.60" for 100-Year event
 Inflow = 19.44 cfs @ 12.20 hrs, Volume= 0.229 af
 Outflow = 1.02 cfs @ 12.55 hrs, Volume= 0.229 af, Atten= 95%, Lag= 21.0 min
 Discarded = 0.42 cfs @ 11.90 hrs, Volume= 0.217 af
 Primary = 0.60 cfs @ 12.55 hrs, Volume= 0.011 af
 Routed to Pond 242P : SUB INF.1C

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 52.20' @ 12.55 hrs Surf.Area= 1,800 sf Storage= 6,327 cf

Plug-Flow detention time= 109.0 min calculated for 0.229 af (100% of inflow)
 Center-of-Mass det. time= 108.9 min (853.3 - 744.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	793 cf	18.00'W x 100.00'L x 5.17'H Field A 9,306 cf Overall - 7,323 cf Embedded = 1,983 cf x 40.0% Voids
#2A	48.20'	5,600 cf	Shea Leaching Chamber 8x14x4.7 x 14 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 14 Chambers in 2 Rows
		6,393 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	10.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	8.0" Horiz. Orifice/Grate C= 0.600

Limited to weir flow at low heads

Discarded OutFlow Max=0.42 cfs @ 11.90 hrs HW=47.75' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.42 cfs)

Primary OutFlow Max=0.60 cfs @ 12.55 hrs HW=52.20' (Free Discharge)

↑**2=Orifice/Grate** (Weir Controls 0.60 cfs @ 1.45 fps)

Summary for Pond 245P: SUB ONF. 1B

Inflow Area = 4.409 ac, 67.96% Impervious, Inflow Depth > 2.03" for 100-Year event
 Inflow = 12.47 cfs @ 12.16 hrs, Volume= 0.748 af
 Outflow = 20.06 cfs @ 12.20 hrs, Volume= 0.748 af, Atten= 0%, Lag= 2.5 min
 Discarded = 1.30 cfs @ 11.65 hrs, Volume= 0.602 af
 Primary = 18.76 cfs @ 12.20 hrs, Volume= 0.145 af
 Routed to Pond 244P : SUB INF. 1A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 53.26' @ 12.20 hrs Surf.Area= 1,872 sf Storage= 6,733 cf

Plug-Flow detention time= 26.8 min calculated for 0.745 af (100% of inflow)
 Center-of-Mass det. time= 26.7 min (790.6 - 764.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	47.70'	733 cf	26.00'W x 72.00'L x 5.17'H Field A 9,678 cf Overall - 7,846 cf Embedded = 1,833 cf x 40.0% Voids
#2A	48.20'	6,000 cf	Shea Leaching Chamber 8x14x4.7 x 15 Inside #1 Inside= 84.0"W x 48.0"H => 30.77 sf x 13.00'L = 400.0 cf Outside= 96.0"W x 56.0"H => 37.36 sf x 14.00'L = 523.0 cf 15 Chambers in 3 Rows
		6,733 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.70'	30.000 in/hr Exfiltration over Surface area
#2	Primary	52.00'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.30 cfs @ 11.65 hrs HW=47.77' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 1.30 cfs)

Primary OutFlow Max=18.60 cfs @ 12.20 hrs HW=53.25' (Free Discharge)

↑**2=Broad-Crested Rectangular Weir** (Weir Controls 18.60 cfs @ 3.71 fps)

Summary for Pond 246P: Sub. Inf. 3D

Inflow Area = 1.330 ac, 35.11% Impervious, Inflow Depth > 3.66" for 100-Year event
 Inflow = 5.84 cfs @ 12.10 hrs, Volume= 0.406 af
 Outflow = 2.09 cfs @ 12.42 hrs, Volume= 0.405 af, Atten= 64%, Lag= 19.6 min
 Discarded = 1.05 cfs @ 12.42 hrs, Volume= 0.388 af
 Primary = 1.04 cfs @ 12.42 hrs, Volume= 0.018 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 57.32' @ 12.42 hrs Surf.Area= 2,352 sf Storage= 4,883 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 32.9 min (831.3 - 798.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	2,121 cf	34.75'W x 67.70'L x 3.50'H Field A 8,234 cf Overall - 2,931 cf Embedded = 5,302 cf x 40.0% Voids
#2A	54.50'	2,931 cf	ADS_StormTech SC-740 b +Cap x 63 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 63 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
		5,052 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 42.30'
#2	Primary	57.00'	2.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Discarded OutFlow Max=1.05 cfs @ 12.42 hrs HW=57.31' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 1.05 cfs)

Primary OutFlow Max=0.98 cfs @ 12.42 hrs HW=57.31' (Free Discharge)
 ↑ **2=Broad-Crested Rectangular Weir** (Weir Controls 0.98 cfs @ 1.59 fps)

Summary for Pond 248P: SUB.INF 3F

Inflow Area = 0.333 ac, 89.47% Impervious, Inflow Depth > 7.51" for 100-Year event
 Inflow = 3.25 cfs @ 12.00 hrs, Volume= 0.208 af
 Outflow = 0.45 cfs @ 11.60 hrs, Volume= 0.208 af, Atten= 86%, Lag= 0.0 min
 Discarded = 0.45 cfs @ 11.60 hrs, Volume= 0.208 af
 Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
 Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Peak Elev= 56.72' @ 12.46 hrs Surf.Area= 1,296 sf Storage= 2,641 cf

Plug-Flow detention time= 35.4 min calculated for 0.207 af (100% of inflow)

Center-of-Mass det. time= 35.1 min (774.3 - 739.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	54.00'	518 cf	18.00'W x 72.00'L x 4.17'H Field A 5,404 cf Overall - 4,110 cf Embedded = 1,294 cf x 40.0% Voids
#2A	54.50'	3,000 cf	Shea Leaching Chamber 8x14x3.7 x 10 Inside #1 Inside= 84.0"W x 36.0"H => 23.08 sf x 13.00'L = 300.0 cf Outside= 96.0"W x 44.0"H => 29.36 sf x 14.00'L = 411.0 cf 10 Chambers in 2 Rows
		3,518 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	54.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.45 cfs @ 11.60 hrs HW=54.08' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.45 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=54.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 249P: SUB.INF 3E**

Inflow Area = 0.139 ac, 100.00% Impervious, Inflow Depth > 8.00" for 100-Year event
Inflow = 1.40 cfs @ 12.00 hrs, Volume= 0.093 af
Outflow = 0.27 cfs @ 11.65 hrs, Volume= 0.093 af, Atten= 80%, Lag= 0.0 min
Discarded = 0.27 cfs @ 11.65 hrs, Volume= 0.093 af
Primary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af
Routed to Link 203L : 3A

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Peak Elev= 56.63' @ 12.39 hrs Surf.Area= 792 sf Storage= 893 cf

Plug-Flow detention time= 16.4 min calculated for 0.092 af (100% of inflow)

Center-of-Mass det. time= 16.2 min (744.6 - 728.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	55.00'	287 cf	18.00'W x 44.00'L x 3.17'H Field A 2,511 cf Overall - 1,794 cf Embedded = 716 cf x 40.0% Voids
#2A	55.50'	1,200 cf	Shea Leaching Chamber 8x14x2.7 x 6 Inside #1 Inside= 84.0"W x 24.0"H => 15.38 sf x 13.00'L = 200.0 cf Outside= 96.0"W x 32.0"H => 21.36 sf x 14.00'L = 299.0 cf 6 Chambers in 2 Rows
		1,487 cf	Total Available Storage

Storage Group A created with Chamber Wizard

RH Post 6-29-26

Type III 24-hr 100-Year Rainfall=8.94"

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Device	Routing	Invert	Outlet Devices
#1	Discarded	55.00'	15.000 in/hr Exfiltration over Surface area
#2	Primary	59.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.27 cfs @ 11.65 hrs HW=55.05' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.27 cfs)**Primary OutFlow** Max=0.00 cfs @ 5.00 hrs HW=55.00' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond 251P: Sub. Inf. 10**

Inflow Area = 1.010 ac, 71.43% Impervious, Inflow Depth > 7.39" for 100-Year event
 Inflow = 8.36 cfs @ 12.09 hrs, Volume= 0.622 af
 Outflow = 8.34 cfs @ 12.10 hrs, Volume= 0.561 af, Atten= 0%, Lag= 0.7 min
 Discarded = 0.07 cfs @ 12.10 hrs, Volume= 0.073 af
 Primary = 8.27 cfs @ 12.10 hrs, Volume= 0.489 af
 Routed to Pond 221P : DET Basin 6

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 61.71' @ 12.10 hrs Surf.Area= 1,610 sf Storage= 3,245 cf

Plug-Flow detention time= 57.9 min calculated for 0.559 af (90% of inflow)
 Center-of-Mass det. time= 25.3 min (771.0 - 745.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	58.50'	1,468 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,967 cf Embedded = 3,669 cf x 40.0% Voids
#2A	59.00'	1,967 cf	ADS StormTech SC-740 b +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows Cap Storage= 2.7 cf x 2 x 7 rows = 37.2 cf
3,434 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	58.50'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 55.00'
#2	Primary	60.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

Discarded OutFlow Max=0.07 cfs @ 12.10 hrs HW=61.71' (Free Discharge)↑**1=Exfiltration** (Controls 0.07 cfs)**Primary OutFlow** Max=8.24 cfs @ 12.10 hrs HW=61.71' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Weir Controls 8.24 cfs @ 2.56 fps)

Summary for Link 59L: DP 1

Inflow Area = 8.749 ac, 31.63% Impervious, Inflow Depth > 3.24" for 100-Year event
Inflow = 26.07 cfs @ 12.22 hrs, Volume= 2.363 af
Primary = 26.07 cfs @ 12.22 hrs, Volume= 2.363 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 60L: DP 2

Inflow Area = 7.125 ac, 54.73% Impervious, Inflow Depth > 5.69" for 100-Year event
Inflow = 53.86 cfs @ 12.10 hrs, Volume= 3.379 af
Primary = 53.86 cfs @ 12.10 hrs, Volume= 3.379 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 235P : ILSF BASIN

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 188L: DP 3

Inflow Area = 14.503 ac, 39.16% Impervious, Inflow Depth > 4.68" for 100-Year event
Inflow = 47.05 cfs @ 12.29 hrs, Volume= 5.653 af
Primary = 47.05 cfs @ 12.29 hrs, Volume= 5.653 af, Atten= 0%, Lag= 0.0 min

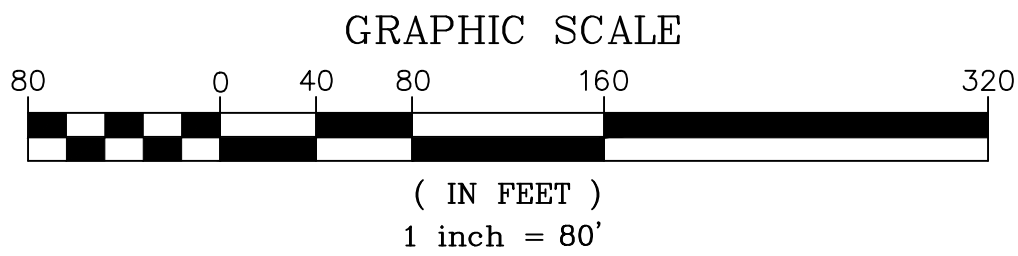
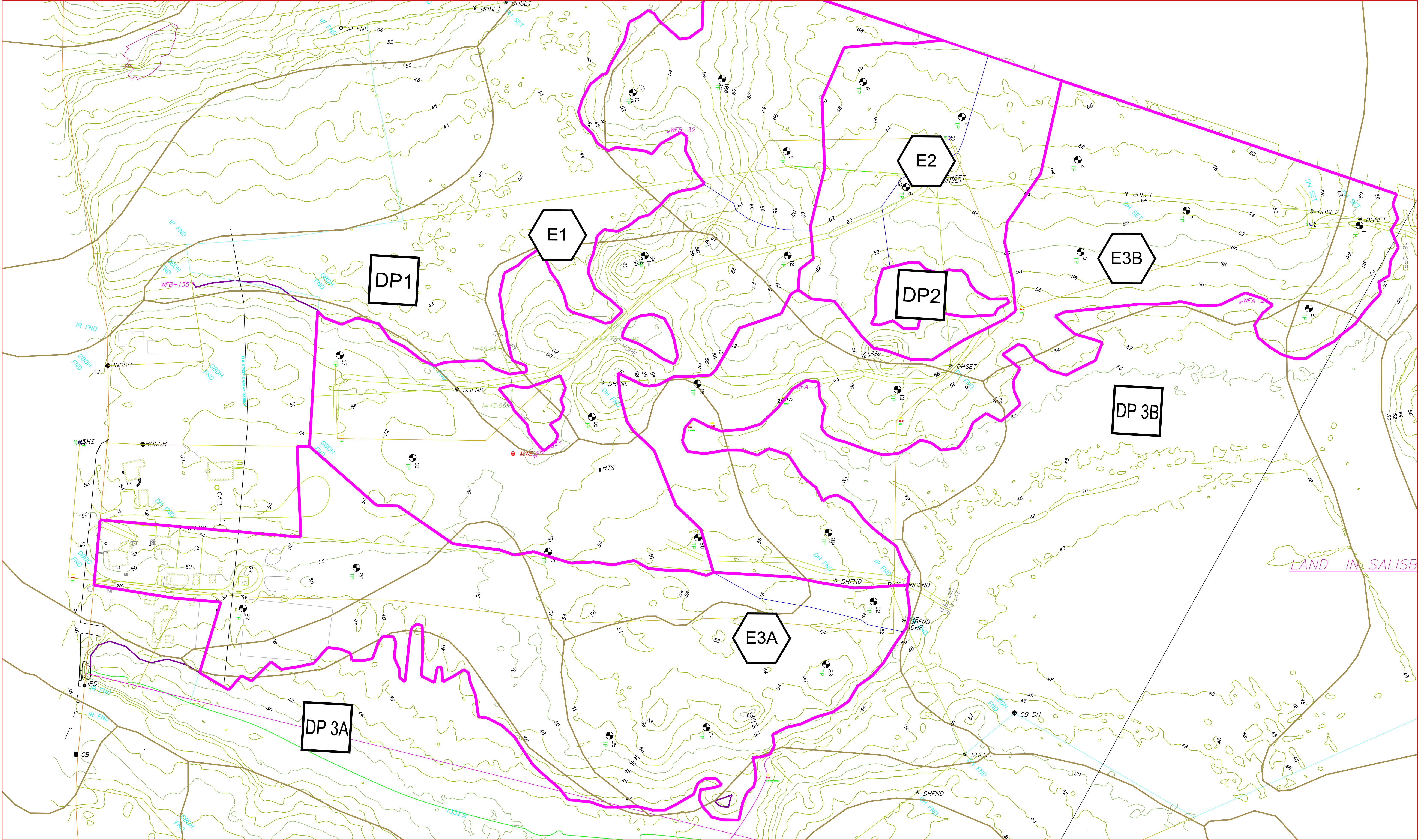
Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 203L: 3A

Inflow Area = 15.797 ac, 45.37% Impervious, Inflow Depth > 0.34" for 100-Year event
Inflow = 5.48 cfs @ 12.41 hrs, Volume= 0.444 af
Primary = 5.48 cfs @ 12.41 hrs, Volume= 0.444 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

f. Watershed Maps



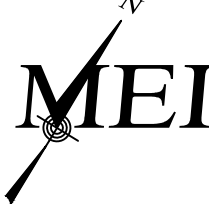
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DALE DEVELOPMENT, LLC

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ENGINEERING AND LAND SURVEYING

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13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=80'

DATE: AUG. 11, 2025

CALC. BY: J.T.M.

CHKD. BY: E.W.B.

PROJECT: M234272

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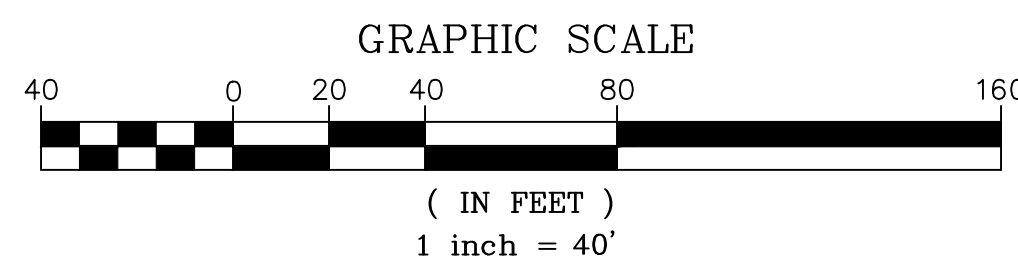
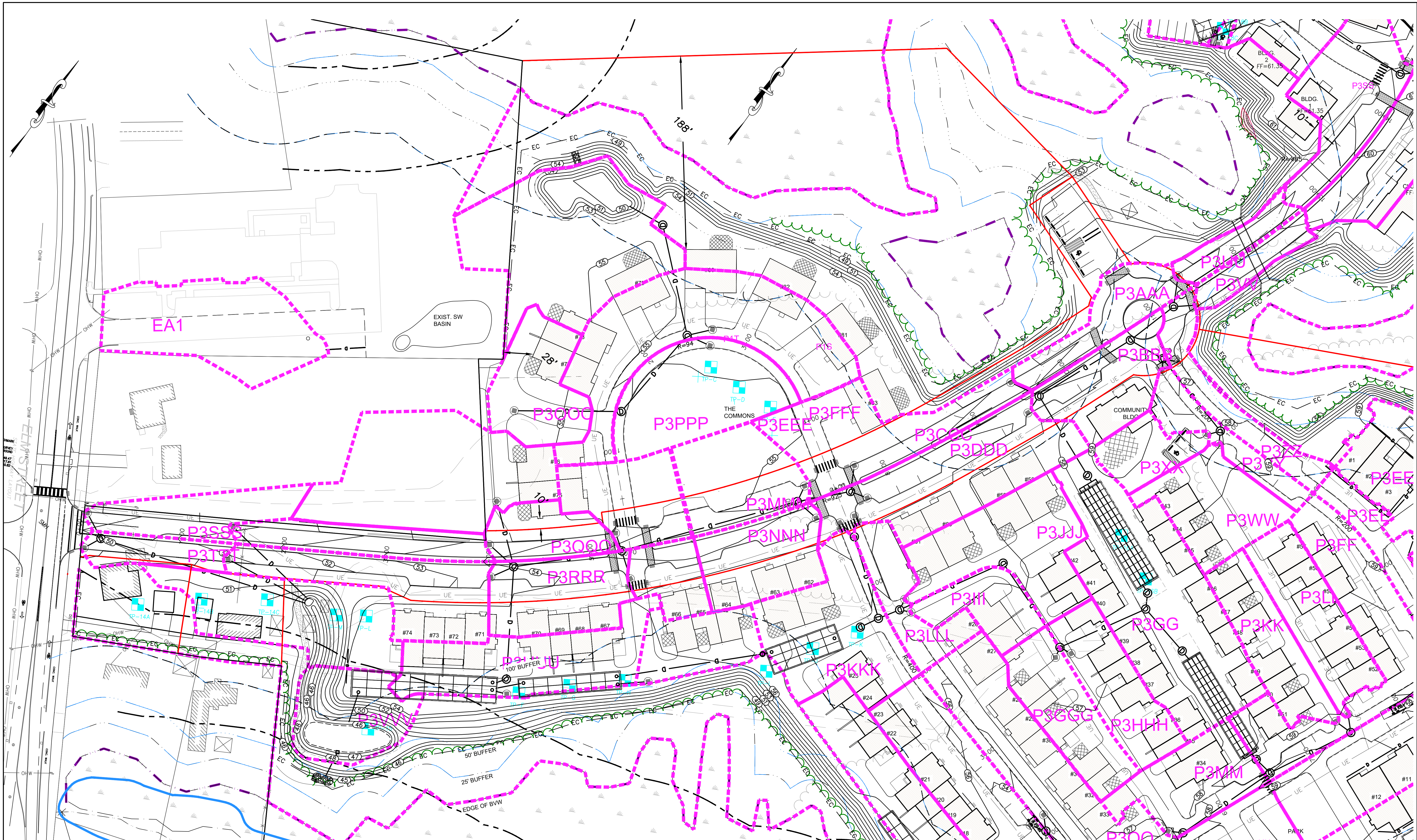
PRE-

DEVELOPMENT

WATERSHED

MAP

SHEET: 1 OF 1



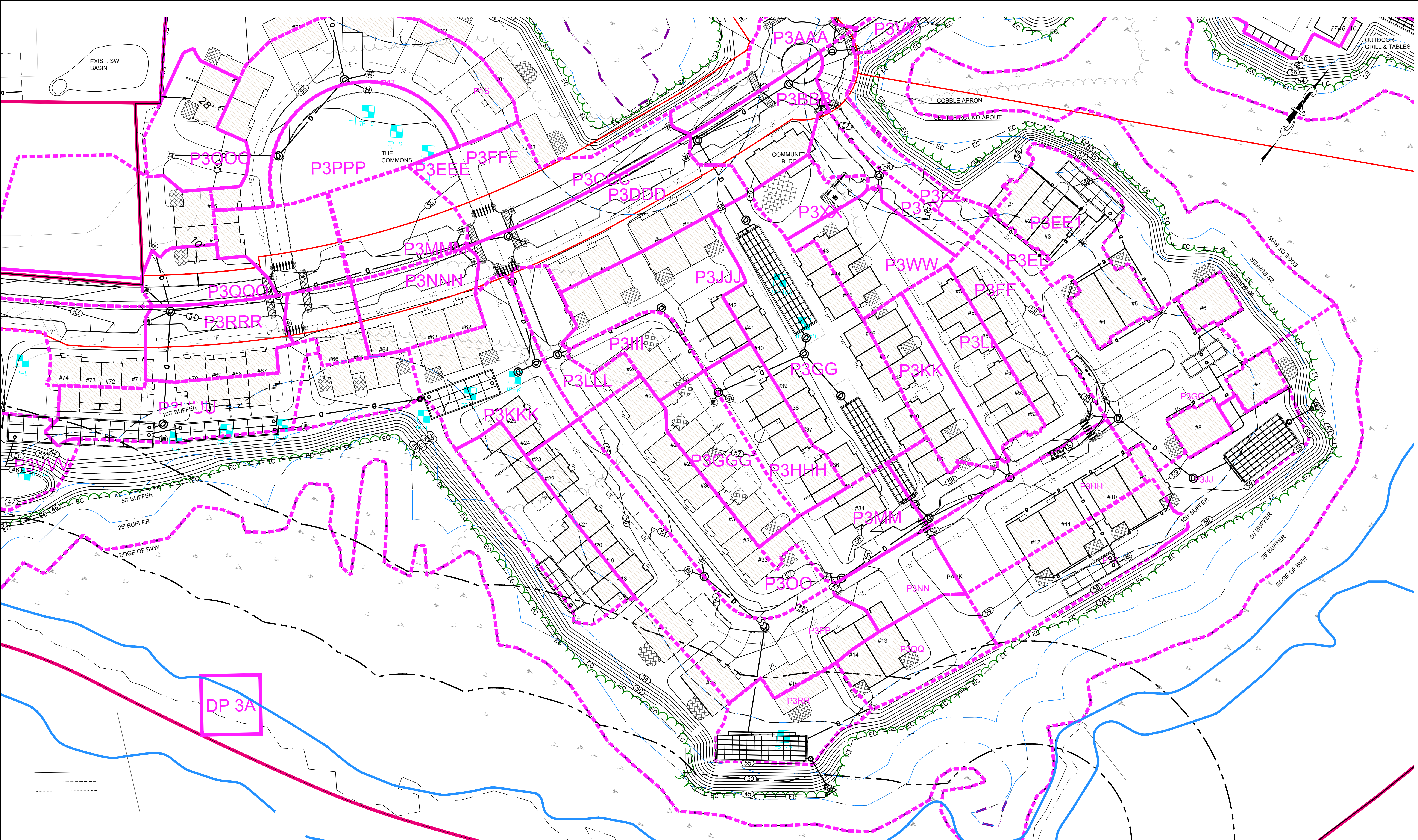
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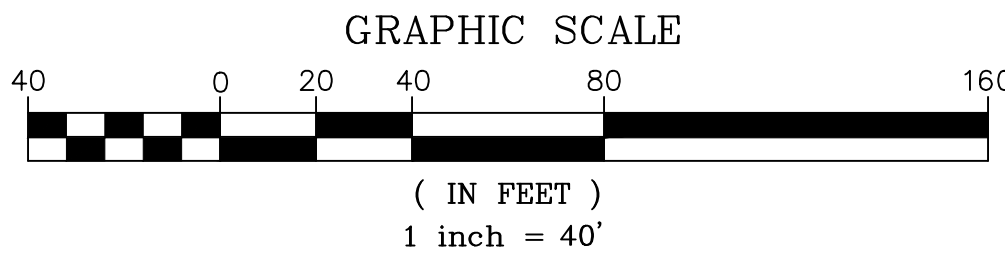
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3	6/19/26	NOI INTERIM UPDATE	S.B.S.
2	3/24/26	PEER REVIEW UPDATE	S.B.S.
1	12/22/25	PLANNING BOARD UPDATE	J.T.M.

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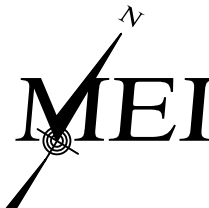


DP 3A



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NO.	DATE	DESCRIPTION	BY
4	6/29/26	PLAN SET UPDATE	S.B.S.
3	6/19/26	NOI INTERIM UPDATE	S.B.S.
2	3/24/26	PEER REVIEW UPDATE	S.B.S.
1	12/22/25	PLANNING BOARD UPDATE	J.T.M.

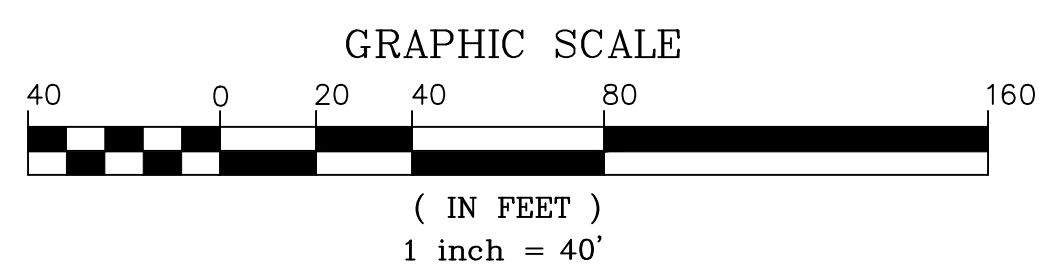
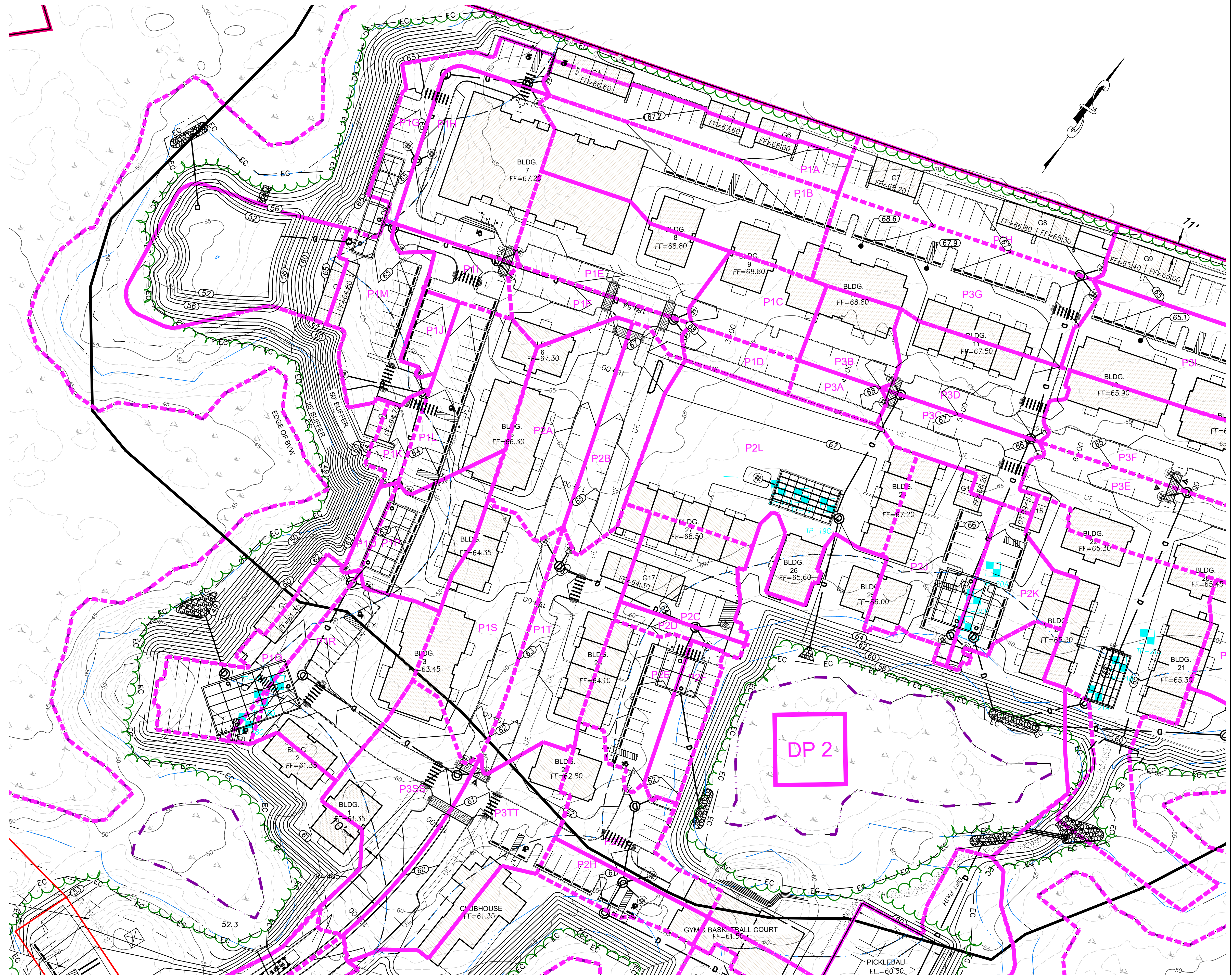


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AMESBURY, MA
AT
ELM STREET

**POST-
DEVELOPMENT
WATERSHED
MAP**
SHEET: 2 OF 4



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY
4	6/29/26	PLAN SET UPDATE	S.B.S.
3	6/19/26	NOI INTERIM UPDATE	S.B.S.
2	3/24/26	PEER REVIEW UPDATE	S.B.S.
1	12/22/25	PLANNING BOARD UPDATE	J.T.M.

MEI MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'
DATE: AUG. 11, 2025

CALC. BY: J.T.M.
CHKD. BY: S.B.S.

PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

**POST-
DEVELOPMENT
WATERSHED
MAP**

SHEET: 3 OF 4

