

STORMWATER REPORT

STRATTON HILL

**WRIGHT ROAD
AYER, MASSACHUSETTS**

Prepared For:

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**April 25th, 2023
6083**

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1.0 Project Narrative

1.1 Project Type

The applicant, Fox Meadow Realty Corp. is proposing the construction of a 35-lot subdivision under the Open Space Residential Development (OSRD) Special Regulations (Section 10.1 of the Ayer Zoning Bylaw). The existing property (referred to herein as “the site”) is located on the northerly side of Wright Road and contains Stratton Hill Road. The proposed housing units consist of 33 single-family dwellings approximately 2,400 SF in area & two duplexes approximately 3,700 SF in area. The proposed scope of construction also includes a private roadway, on-site parking, stormwater management systems, new utility connections and their associated appurtenances. The proposed development is intended to be serviced by municipal water & sewer systems.

1.2 Purpose and Scope

This report has been prepared to comply with the requirements of the Stormwater Management Standards incorporated in the Massachusetts Wetlands Protection Act Regulations, 310 CMR 10.00. These standards are intended to promote increased groundwater recharge and prevent stormwater discharges from causing or contributing to the pollution of surface waters and ground waters of the Commonwealth. The standards aim to accomplish these goals by encouraging the greater use of low impact development (LID) techniques and improving the operation and maintenance of stormwater best management practices (BMP).

This report addresses compliance of the proposed development with each of the ten stormwater standards, it provides calculations to support the compliance information, and it provides a Long-Term Pollution Prevention Plan and an Operation and Maintenance Plan for the stormwater management system.

1.3 LID Measures

Care has been taken to lay out the proposed site in a manner that works with existing topography. The existing partially constructed stormwater management area along Wright Road has been utilized in the design. BMP's have been selected to manage the stormwater runoff. Stormwater from the proposed impervious surface locations is routed to infiltration basins via land flow, curb and gutter systems, or conventional storm drain systems. The stormwater basins will reduce run off rates below pre-developed rates while providing water quality pre-treatment by sediment forebays.

1.4 Site Description

As mentioned, the site is located on the northerly side of Wright Road and contains Stratton Hill Road with the lots created by the subdivision (see

Middlesex Registry of Deeds plan 829 of 2005) (Assessor's map 6, Parcels 1, 2, 3, 7, 8, and 11 through 55). The site contains a partially constructed road with partially constructed stormwater management area & infrastructure. Freshwater wetlands subject to the protections of the Ayer Wetlands Bylaw are located to the east, north and west of Stratton Hill Road. The project site falls within the Zoning District Residence A-1. The abutting properties to the East and West are in the same district and consist of undeveloped woodlands and single-family homes on Wright Road. Directly South of the site is the Zoning District A-2 where there are more single-family homes. The North side of the property abuts the Groton town line which contains more undeveloped woodland. The site contains a ridge line from south to north bisecting the overland stormwater flows to the east & west. Design point designation for hydraulic assessment is described later in this report (Section 2.2).

The site currently has access from Stratton Hill Road which branches off Wright Road. With Long Pond to the East, the Groton town line to the North and more wooded properties to the West, the proposed southerly access presents the most practical means of entering the site.

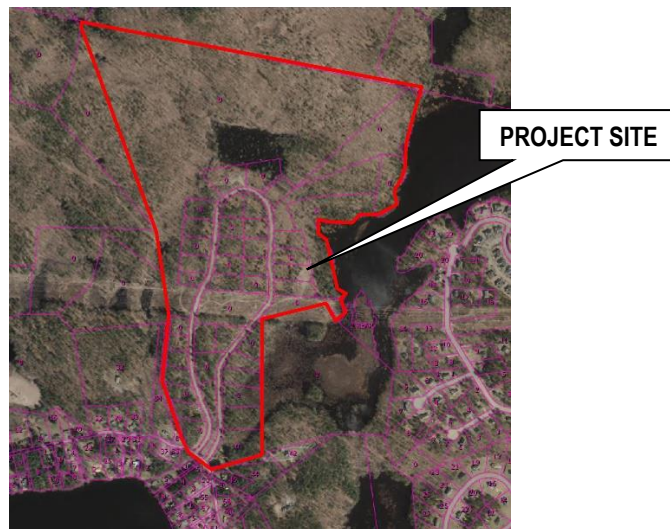


Figure 1 – Massachusetts GIS Map

The site is bisected by a cleared utility easement that contains overhead transmission lines. As noted above, portions of the site have been altered by prior construction activities. Incidentally, both analysis of vegetation and presence of hydric soils were used to determine the limits of resource areas as depicted on the attached site plans. The project site is subject to an ANRAD, DEP file #100-0445.

The site is chiefly comprised of Charlton-Hollis-Rock outcrop and Hollis-Rock outcrop soils with moderate to slightly steep slopes. The NRCS soil survey information indicates that all of the site is underlain by soils classified as belonging to Hydrologic Soil Groups A, B & D.

- Soils belonging to group A have a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.
- Soils belonging to group B have a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained, or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.
- Soils belonging to group D have a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Please refer to Appendix C within this report for further information regarding the soils on-site & existing test hole data.

Based on the most recently available Flood Insurance Rate map for the Town of Ayer, a portion of the site is located within a mapped flood area of special concern associated with Long Pond. This area would be subject to inundation during the 100-year frequency storm event, which would be considered Bordering Land Subject to Flooding. This information was obtained from the Federal Flood Insurance Rate (FIRM) Flood Plain Maps for Ayer, Massachusetts (refer to Appendix A – Flood Map). Based on site observations and topography, the Bordering Land Subject to flooding is located entirely within the identified wetland that borders Long Pond.

In accordance with regulation 310 CMR 10.59, no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species. Specified habitat sites of rare species have been identified by the Massachusetts Natural Heritage and Endangered Species Program of the Division of Fisheries and Wildlife. The Massachusetts Natural Heritage Atlas 14th Edition indicates that the entirety of the site is located within Priority Habitat PH 2029 and is sited as an Area of Critical Environmental Concern (ACEC).

1.5 Proposed Stormwater Management System

Runoff from the proposed development will be conveyed and treated through a combination of Best Management Practices (BMP's). The following is a brief discussion of each conveyance and treatment BMP proposed.

Deep Sump Hooded Catch Basin

Deep sump hooded catch basins are proposed to convey the runoff from the proposed paved areas and roofs to the infiltration basins. These catch basins will discharge to manholes and conventional storm drains.

Infiltration Basin

The infiltration basins are designed to reduce the runoff rates and increase the groundwater recharge rates. Sediment forebays designed at the entrance of each basin were included to decrease the velocity of flow and increase the settlement of heavy solids prior to the infiltration basin. Riprap will also be installed at the inlet of the sediment forebays and the outlet of the basins to control the overflow of stormwater into the adjacent wetlands and reduce the potential for scouring.

Grassed Swales

Proposed swales have been designed to convey the flows from the 100-year frequency event. The grass swales will receive runoff from a portion of the proposed roofs and will convey the stormwater flows to associated proposed infiltration basins.

1.6 Methods of Analysis

The United States Department of Agriculture Natural Resources Conservation Service (NRCS) soil cover complex methods (TR-20) were employed to compute runoff quantities for the subject property. Watershed analysis demonstrates that natural drainage patterns drain toward the wetlands (design point). Two design points were modeled to analyze the total runoff from the site. HydroCAD 10.0 computer software was employed in this hydrologic analysis.

A comparison of pre- and post-development runoff quantities at the analysis points were performed in order to design a stormwater management system that will limit peak rates of runoff from the development to predevelopment levels for 24-hour rainfall events of 2-, 10-, 25- and 100-year return frequencies. Watershed boundaries for existing conditions are depicted on the attached Predevelopment Watershed Plan. Post-Developed watershed boundaries are indicated on the Post-development Watershed Plan.

2.0 Stormwater Standards Compliance

2.1 Standard 1 – Untreated Discharge

The stormwater management system for the proposed development will not result in any new discharges of untreated stormwater to wetland resource areas. Stormwater management structures have been designed such that there is no erosion or scour to wetland resource areas or waters of the Commonwealth.

2.2 Standard 2 – Peak Rate Attenuation

Hydrologic calculations for existing and proposed site conditions are included in Appendices D and E respectively. Calculations for 24-hour rainfall events of 2-, 10-, 25- and 100-year return frequencies are provided. The following table provides a summary of peak rates of runoff related to each of these storms for the design point through which all runoff from the subject property must flow. For all rainfall events considered, the proposed stormwater management system will control runoff from the development such that corresponding peak flows at the design point will be lower than pre-developed rates. Two design points have been designated for the analysis. The site is bisected by a ridgeline that delivers overland flow to the East & to the West. The resulting Eastern design point has been designated as Design Point-A & the Western design point has been designated as Design Point-B.

Table 1: Wetland Design Point Runoff Summary

	Pre-Developed (ft³ / sec)	Post-Developed (ft³ / sec)
<i>Design Point "A"</i>		
2-Year	3.36	3.14
10-Year	23.28	20.98
25-Year	39.91	31.45
100-Year	81.41	54.10
<i>Design Point "B"</i>		
2-Year	1.54	0.54
10-Year*	11.22	5.61
25-Year	19.23	11.96
100-Year	40.53	30.06

2.3 Standard 3 – Recharge

The site is chiefly comprised of Charlton-Hollis-Rock outcrop and Hollis-Rock outcrop soils with moderate to slightly steep slopes. The NRCS soil survey information indicates that all of the site is underlain by soils classified as belonging to Hydrologic Soil Groups A, B & D. Extensive soil testing and evaluation confirms the C-horizon as a loamy sandy loam throughout the site. As such the proposed stormwater management areas (#1 & #2) have been designed with an exfiltration rate of 2.41 inches per hour. Infiltration Basin #3 has been designed with an exfiltration rate of 1.02 inches per hour. Please refer to Appendix C for the test hole data that was utilized during the design process.

Recharge calculations can be found in Appendix F.

2.4 Standard 4 – Water Quality

TSS removal calculations have been provided (Appendix F) showing that the proposed TSS removal efficiency from these areas will be 80% using the infiltration basins with the sediment forebay & deep sump hooded catch basin pretreatment. Two TSS calculation sheets have been provided. The sheet with a deep sump catch basin being routed into a sediment forebay shows proper pretreatment before entering the infiltration basins. The sheet with deep sump catch basin being routed into an infiltration basin shows there is enough TSS removal within the whole system.

2.5 Standard 5 – Land Uses with Higher Pollutant Loads

The current and proposed uses of the subject site do not constitute land use with higher potential pollutant load, thus Standard 5 does not apply to the proposed project.

2.6 Standard 6 –Critical Areas

The proposed project does not contain a stormwater discharge within or near to any of the areas as defined as “Critical Areas” at 314 CMR 9.02 and 310 CMR 10.04.

2.7 Standard 7 – Redevelopment

The proposed project does not meet the standards to be considered a Redevelopment project.

2.8 Standard 8 – Construction Period Pollution Prevention Plan and Erosion and Sediment Control

Since the project is subject to the filing of an Environmental Protection Agency Notice of Intent (EPA NOI), and the work will be pursuant to the NPDES Construction General Permit for disturbance to an area greater than 1 acre & proposes treated discharge to waters of U.S., a copy of the Stormwater Pollution Prevention Plan (SWPPP) will be submitted prior to construction. The SWPPP will satisfy the Standard 8 Construction Period Pollution prevention. And Erosion and Sediment Control Plan is included in the attached Site Plans.

2.9 Standard 9 – Operation and Maintenance Plan

Refer to Appendix H for a complete copy of the Stormwater Operation and Maintenance Plan.

2.10 Standard 10 – Prohibition of Illicit Discharge

An illicit discharge statement will be prepared after approvals are received and prior to construction.

3.0 Appendices

Appendix A - Locus & Flood Map

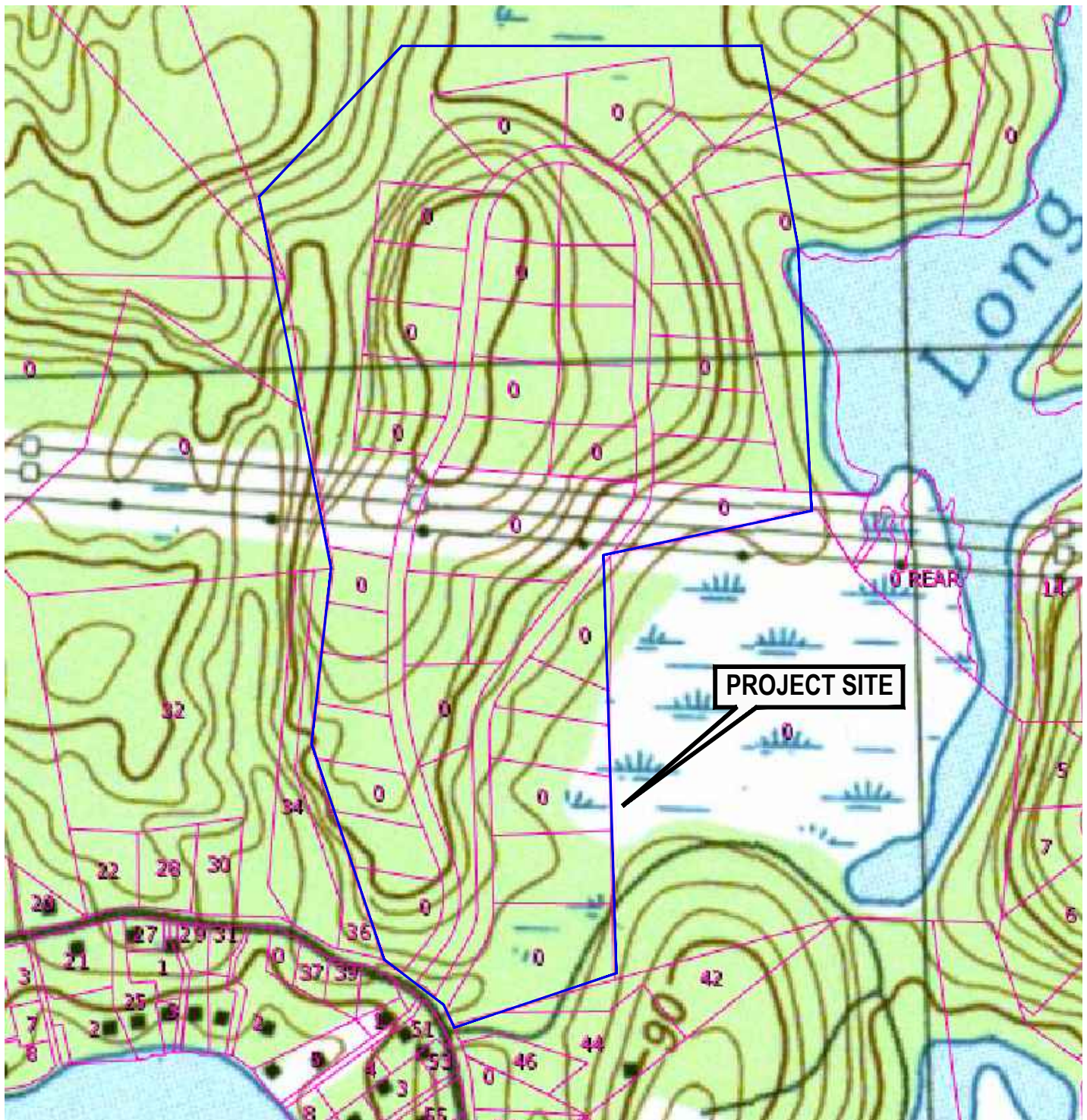


FIGURE 1 - LOCUS MAP

NOT TO SCALE

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References: 1988 USGS Ayer
Massachusetts Topographic Map

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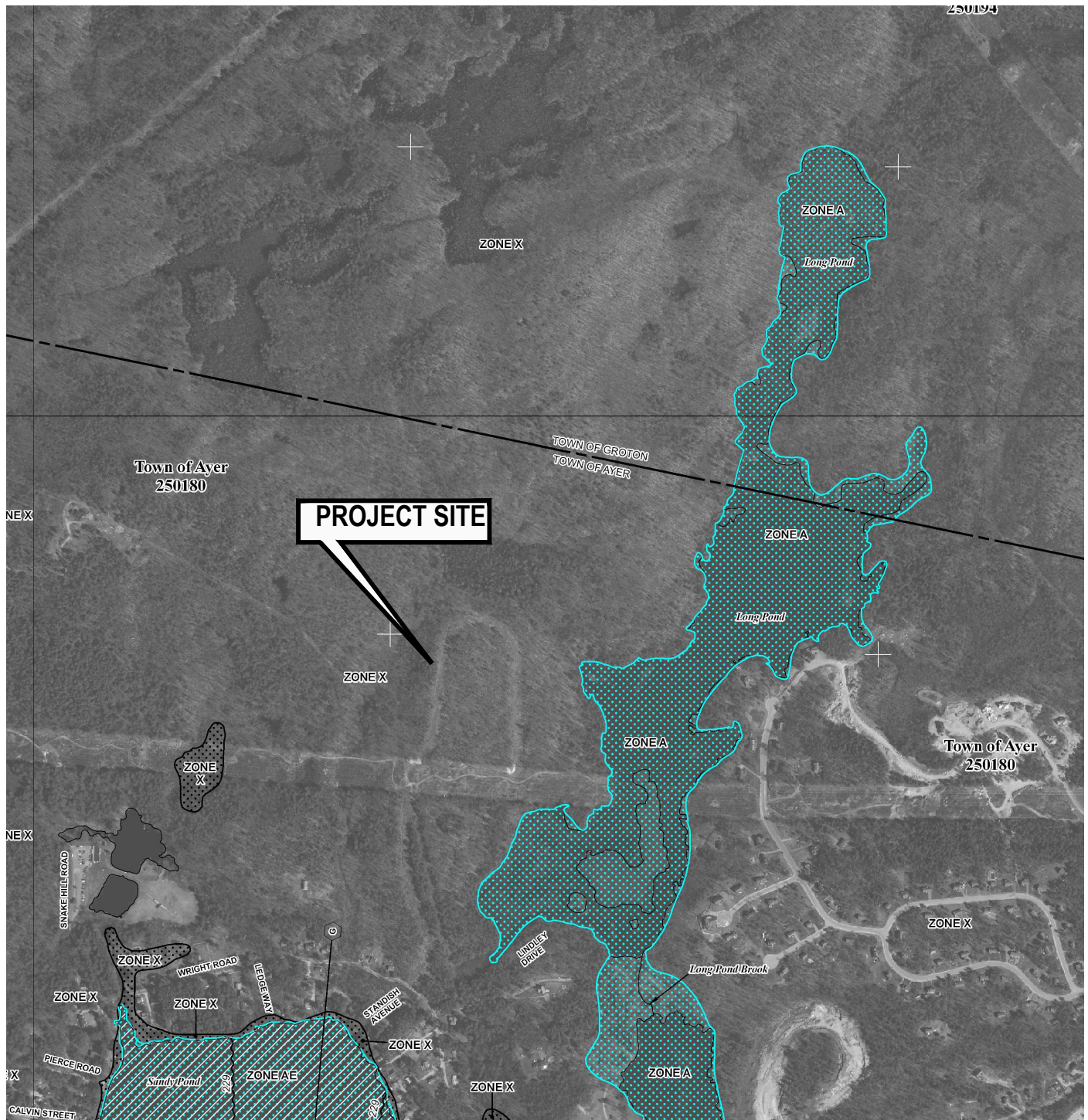


FIGURE 2 - FLOOD MAP

1"=1,000' ±

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References: FIRM - Flood Insurance Rate Map
Community-Panel Number: 25017C0208E

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Stormwater Report
Stratton Hill

April 25th, 2023
Fox Meadow Realty Corp.

Appendix B - Checklist for Stormwater Report



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 must be submitted with the Stormwater Report.

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.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

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

4/25/2023

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 for Stormwater Report

Checklist (continued)

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): _____

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 for Stormwater Report

Checklist (continued)

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 for Stormwater Report

Checklist (continued)

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 for Stormwater Report

Checklist (continued)

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 for Stormwater Report

Checklist (continued)

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 for Stormwater Report

Checklist (continued)

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

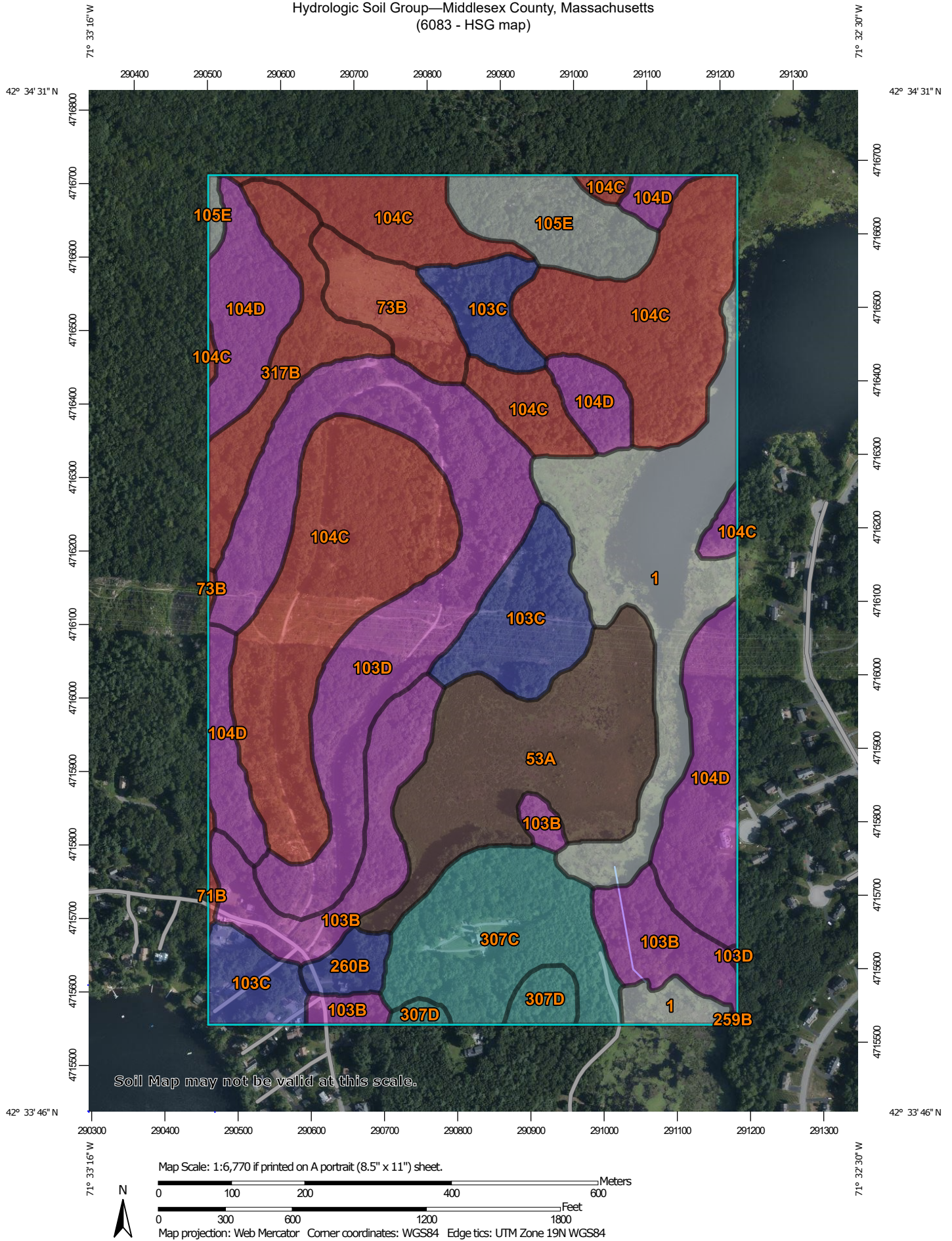
- ☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - ☒ Name of the stormwater management system owners;
 - ☒ Party responsible for operation and maintenance;
 - ☒ Schedule for implementation of routine and non-routine 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

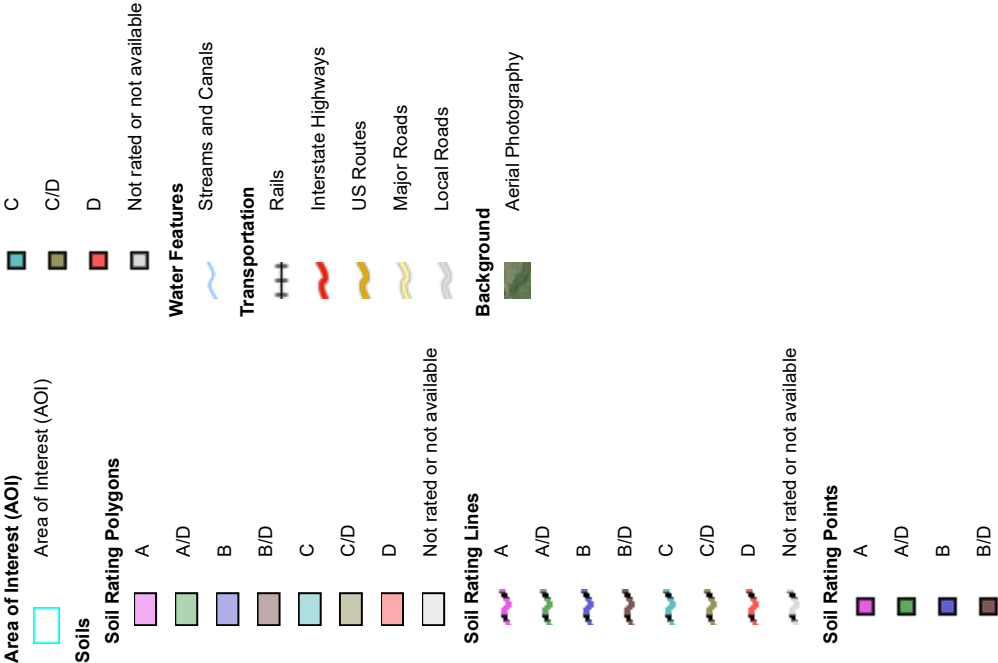
- ☐ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- ☐ An Illicit Discharge Compliance Statement is attached;
- ☒ NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

Appendix C - Soils Data

Hydrologic Soil Group—Middlesex County, Massachusetts (6083 - HSG map)



MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
Survey Area Data: Version 19, Sep 12, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 9, 2019—Sep 28, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1	Water		21.1	10.2%
53A	Freetown muck, ponded, 0 to 1 percent slopes	B/D	20.0	9.7%
71B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	D	0.3	0.2%
73B	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	D	5.6	2.7%
103B	Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	A	15.5	7.5%
103C	Charlton-Hollis-Rock outcrop complex, 8 to 15 percent slopes	B	15.1	7.3%
103D	Charlton-Hollis-Rock outcrop complex, 15 to 25 percent slopes	A	27.1	13.1%
104C	Hollis-Rock outcrop-Charlton complex, 0 to 15 percent slopes	D	46.2	22.3%
104D	Hollis-Rock outcrop-Charlton complex, 15 to 25 percent slopes	A	23.5	11.3%
105E	Rock outcrop-Hollis complex, 3 to 35 percent slopes		7.3	3.5%
259B	Carver loamy coarse sand, 3 to 8 percent slopes	A	0.0	0.0%
260B	Sudbury fine sandy loam, 3 to 8 percent slopes	B	2.0	1.0%
307C	Paxton fine sandy loam, 8 to 15 percent slopes, extremely stony	C	13.5	6.5%
307D	Paxton fine sandy loam, 15 to 25 percent slopes, extremely stony	C	2.2	1.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
317B	Scituate fine sandy loam, 3 to 8 percent slopes, extremely stony	D	7.9	3.8%
Totals for Area of Interest			207.3	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

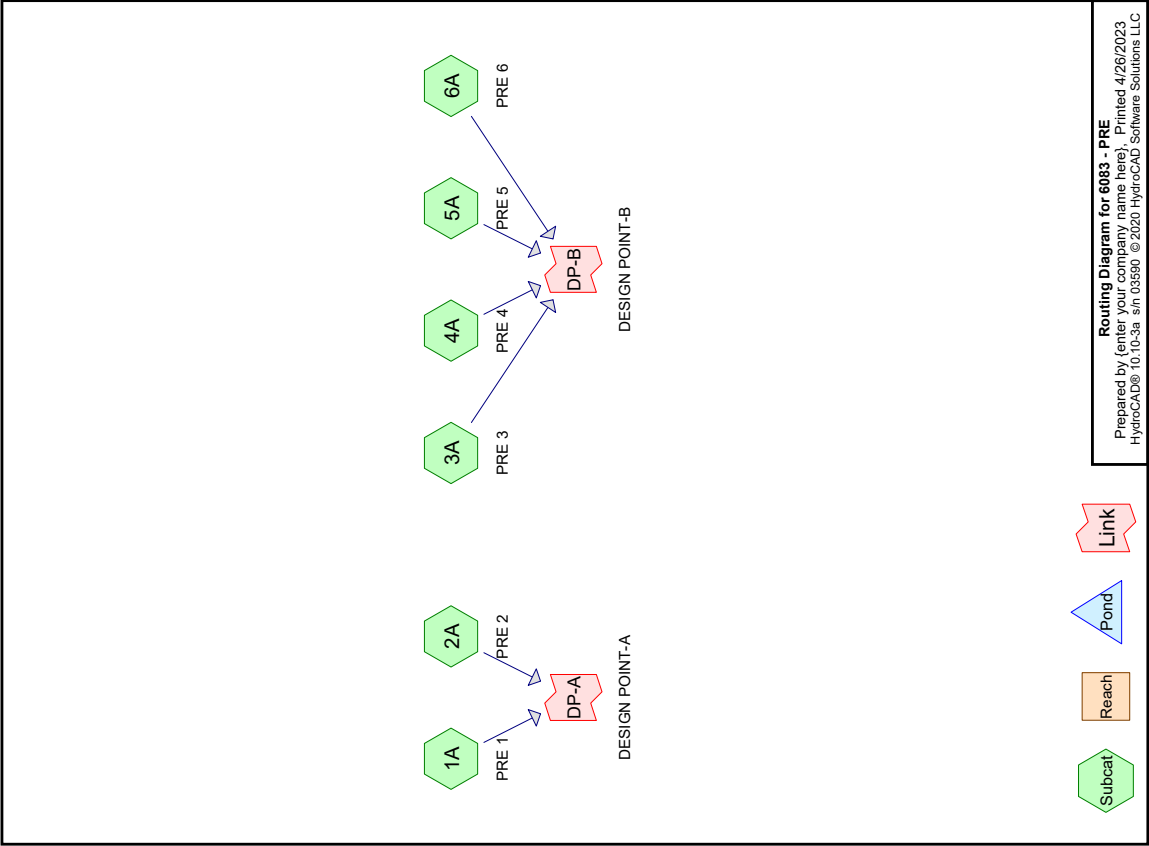
Tie-break Rule: Higher

Appendix D - Existing Conditions Hydrologic Calculations

6083 - PRE

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year	Type III 24-hr		Default	24.00	1	3.10	2
2	10-year	Type III 24-hr		Default	24.00	1	4.60	2
3	25-year	Type III 24-hr		Default	24.00	1	5.40	2
4	100-year	Type III 24-hr		Default	24.00	1	7.00	2



Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: PRE 1
Runoff Area=1,802,441 sf 0.00% Impervious Runoff Depth=0.22"
Flow Length=972' Tc=11.1 min CN=55 Runoff=3.36 cfs 0.766 af

Subcatchment2A: PRE 2
Runoff Area=103,666 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=350' Tc=6.8 min CN=40 Runoff=0.00 cfs 0.000 af

Subcatchment3A: PRE 3
Runoff Area=162,147 sf 0.00% Impervious Runoff Depth=0.01"
Flow Length=455' Tc=10.1 min CN=43 Runoff=0.01 cfs 0.005 af

Subcatchment4A: PRE 4
Runoff Area=339,048 sf 0.00% Impervious Runoff Depth=0.22"
Flow Length=462' Tc=7.7 min CN=55 Runoff=0.66 cfs 0.144 af

Subcatchment5A: PRE 5
Runoff Area=372,514 sf 0.00% Impervious Runoff Depth=0.25"
Flow Length=441' Tc=6.0 min CN=56 Runoff=0.89 cfs 0.177 af

Subcatchment6A: PRE 6
Runoff Area=106,355 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=391' Tc=7.9 min CN=41 Runoff=0.00 cfs 0.001 af

Link DP-A: DESIGN POINT-A
Inflow=3.36 cfs 0.766 af
Primary=3.36 cfs 0.766 af

Link DP-B: DESIGN POINT-B
Inflow=1.54 cfs 0.327 af
Primary=1.54 cfs 0.327 af

Total Runoff Area = 66.257 ac Runoff Volume = 1.093 af Average Runoff Depth = 0.20"
100.00% Pervious = 66.257 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: PRE 1

Runoff = 3.36 cfs @ 12.43 hrs, Volume= 0.766 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
716,166	30	Woods, Good, HSG A
114,129	39	>75% Grass cover, Good, HSG A
13,867	96	Gravel surface, HSG A
122,131	55	Woods, Good, HSG B
79,410	61	>75% Grass cover, Good, HSG B
13,218	96	Gravel surface, HSG B
443,269	77	Woods, Good, HSG D
281,024	80	>75% Grass cover, Good, HSG D
19,227	96	Gravel surface, HSG D
1,802,441	55	Weighted Average
1,802,441	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass, Short n= 0.150 P2= 3.10"
6.8	812	0.0800	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	110	0.1400	1.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.1	972	Total			

Summary for Subcatchment 2A: PRE 2

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
40,069	30	Woods, Good, HSG A
48,855	39	>75% Grass cover, Good, HSG A
430	96	Gravel surface, HSG A
1,409	55	Woods, Good, HSG B
9,106	61	>75% Grass cover, Good, HSG B
611	96	Gravel surface, HSG B
3,186	80	>75% Grass cover, Good, HSG D
103,666	40	Weighted Average
103,666	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.9	300	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.8	350	Total			

Summary for Subcatchment 3A: PRE 3

Runoff = 0.01 cfs @ 21.38 hrs, Volume= 0.005 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
117,833	30	Woods, Good, HSG A
2,183	39	>75% Grass cover, Good, HSG A
981	96	Gravel surface, HSG A
33,839	77	Woods, Good, HSG D
5,631	80	>75% Grass cover, Good, HSG D
1,680	96	Gravel surface, HSG D
162,147	43	Weighted Average
162,147		100.00% Pervious Area

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"
2.6	405	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.1	455	Total			

Summary for Subcatchment 4A: PRE 4

Runoff = 0.66 cfs @ 12.38 hrs, Volume= 0.144 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
148,304	30	Woods, Good, HSG A
21,369	39	>75% Grass cover, Good, HSG A
6,659	96	Gravel surface, HSG A
155,855	77	Woods, Good, HSG D
6,241	80	>75% Grass cover, Good, HSG D
620	96	Gravel surface, HSG D
339,048	55	Weighted Average
339,048		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.5	254	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	36	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	122	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	462	Total			

Summary for Subcatchment 5A: PRE 5

Runoff = 0.89 cfs @ 12.33 hrs, Volume= 0.177 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
20,096	30	Woods, Good, HSG A
197,410	39	>75% Grass cover, Good, HSG A
5,312	96	Gravel surface, HSG A
8,370	77	Woods, Good, HSG D
138,407	80	>75% Grass cover, Good, HSG D
2,919	96	Gravel surface, HSG D
372,514	56	Weighted Average
372,514		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.3	391	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.0	441	Total			

Summary for Subcatchment 6A: PRE 6

Runoff = 0.00 cfs @ 23.79 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
99,310	39	>75% Grass cover, Good, HSG A
4,549	61	>75% Grass cover, Good, HSG B
2,496	80	>75% Grass cover, Good, HSG D
106,355	41	Weighted Average
106,355		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"
2.2	341	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	391	Total			

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 43,758 ac, 0.00% Impervious, Inflow Depth = 0.21" for 2-year event
Inflow = 3.36 cfs @ 12.43 hrs, Volume= 0.766 af
Primary = 3.36 cfs @ 12.43 hrs, Volume= 0.766 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 22,499 ac, 0.00% Impervious, Inflow Depth = 0.17" for 2-year event
Inflow = 1.54 cfs @ 12.35 hrs, Volume= 0.327 af
Primary = 1.54 cfs @ 12.35 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: PRE 1
Runoff Area=1,802,441 sf 0.00% Impervious Runoff Depth=0.79"
Flow Length=972' Tc=11.1 min CN=55 Runoff=23.28 cfs 2.717 af

Subcatchment2A: PRE 2
Runoff Area=103,666 sf 0.00% Impervious Runoff Depth=0.15"
Flow Length=350' Tc=6.8 min CN=40 Runoff=0.05 cfs 0.031 af

Subcatchment3A: PRE 3
Runoff Area=162,147 sf 0.00% Impervious Runoff Depth=0.25"
Flow Length=455' Tc=10.1 min CN=43 Runoff=0.26 cfs 0.077 af

Subcatchment4A: PRE 4
Runoff Area=339,048 sf 0.00% Impervious Runoff Depth=0.79"
Flow Length=462' Tc=7.7 min CN=55 Runoff=4.88 cfs 0.511 af

Subcatchment5A: PRE 5
Runoff Area=372,514 sf 0.00% Impervious Runoff Depth=0.84"
Flow Length=441' Tc=6.0 min CN=56 Runoff=6.44 cfs 0.600 af

Subcatchment6A: PRE 6
Runoff Area=106,355 sf 0.00% Impervious Runoff Depth=0.18"
Flow Length=391' Tc=7.9 min CN=41 Runoff=0.08 cfs 0.037 af

Link DP-A: DESIGN POINT-A

Inflow=23.28 cfs 2.748 af
Primary=23.28 cfs 2.748 af

Link DP-B: DESIGN POINT-B

Inflow=11.22 cfs 1.227 af
Primary=11.22 cfs 1.227 af

Total Runoff Area = 66.257 ac Runoff Volume = 3.974 af Average Runoff Depth = 0.72"
100.00% Pervious = 66.257 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: PRE 1

Runoff = 23.28 cfs @ 12.20 hrs, Volume= 2.717 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
716,166	30	Woods, Good, HSG A
114,129	39	>75% Grass cover, Good, HSG A
13,867	96	Gravel surface, HSG A
122,131	55	Woods, Good, HSG B
79,410	61	>75% Grass cover, Good, HSG B
13,218	96	Gravel surface, HSG B
443,269	77	Woods, Good, HSG D
281,024	80	>75% Grass cover, Good, HSG D
19,227	96	Gravel surface, HSG D
1,802,441	55	Weighted Average
1,802,441	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
6.8	812	0.0800	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	110	0.1400	1.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.1	972	Total			

Summary for Subcatchment 2A: PRE 2

Runoff = 0.05 cfs @ 13.69 hrs, Volume= 0.031 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
40,069	30	Woods, Good, HSG A
48,855	39	>75% Grass cover, Good, HSG A
430	96	Gravel surface, HSG A
1,409	55	Woods, Good, HSG B
9,106	61	>75% Grass cover, Good, HSG B
611	96	Gravel surface, HSG B
3,186	80	>75% Grass cover, Good, HSG D
103,666	40	Weighted Average
103,666	100.00%	Pervious Area

Summary for Subcatchment 3A: PRE 3

Runoff = 0.26 cfs @ 12.47 hrs, Volume= 0.077 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
117,833	30	Woods, Good, HSG A
2,183	39	>75% Grass cover, Good, HSG A
981	96	Gravel surface, HSG A
33,839	77	Woods, Good, HSG D
5,631	80	>75% Grass cover, Good, HSG D
1,680	96	Gravel surface, HSG D
162,147	43	Weighted Average
162,147	100.00%	Pervious Area

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"
2.6	405	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.1	455	Total			

Summary for Subcatchment 4A: PRE 4

Runoff = 4.88 cfs @ 12.15 hrs, Volume= 0.511 af, Depth= 0.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
148,304	30	Woods, Good, HSG A
21,369	39	>75% Grass cover, Good, HSG A
6,659	96	Gravel surface, HSG A
155,855	77	Woods, Good, HSG D
6,241	80	>75% Grass cover, Good, HSG D
620	96	Gravel surface, HSG D
339,048	55	Weighted Average
339,048	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.5	254	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	36	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	122	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	462	Total			

Summary for Subcatchment 5A: PRE 5

Runoff = 6.44 cfs @ 12.11 hrs, Volume= 0.600 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
20,096	30	Woods, Good, HSG A
197,410	39	>75% Grass cover, Good, HSG A
5,312	96	Gravel surface, HSG A
8,370	77	Woods, Good, HSG D
138,407	80	>75% Grass cover, Good, HSG D
2,919	96	Gravel surface, HSG D
372,514	56	Weighted Average
372,514		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.3	391	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.0	441	Total			

Summary for Subcatchment 6A: PRE 6

Runoff = 0.08 cfs @ 12.51 hrs, Volume= 0.037 af, Depth= 0.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
99,310	39	>75% Grass cover, Good, HSG A
4,549	61	>75% Grass cover, Good, HSG B
2,496	80	>75% Grass cover, Good, HSG D
106,355	41	Weighted Average
106,355		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"
2.2	341	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 43.758 ac, 0.00% Impervious, Inflow Depth = 0.75" for 10-year event
Inflow = 23.28 cfs @ 12.20 hrs, Volume= 2.748 af
Primary = 23.28 cfs @ 12.20 hrs, Volume= 2.748 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 22.499 ac, 0.00% Impervious, Inflow Depth = 0.65" for 10-year event
Inflow = 11.22 cfs @ 12.12 hrs, Volume= 1.227 af
Primary = 11.22 cfs @ 12.12 hrs, Volume= 1.227 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: PRE 1
Runoff Area=1,802,441 sf 0.00% Impervious Runoff Depth=1.19"
Flow Length=972' Tc=11.1 min CN=55 Runoff=39.82 cfs 4.089 af

Subcatchment2A: PRE 2
Runoff Area=103,666 sf 0.00% Impervious Runoff Depth=0.33"
Flow Length=350' Tc=6.8 min CN=40 Runoff=0.26 cfs 0.066 af

Subcatchment3A: PRE 3
Runoff Area=162,147 sf 0.00% Impervious Runoff Depth=0.47"
Flow Length=455' Tc=10.1 min CN=43 Runoff=0.76 cfs 0.146 af

Subcatchment4A: PRE 4
Runoff Area=339,048 sf 0.00% Impervious Runoff Depth=1.19"
Flow Length=462' Tc=7.7 min CN=55 Runoff=8.34 cfs 0.769 af

Subcatchment5A: PRE 5
Runoff Area=372,514 sf 0.00% Impervious Runoff Depth=1.25"
Flow Length=441' Tc=6.0 min CN=56 Runoff=10.70 cfs 0.894 af

Subcatchment6A: PRE 6
Runoff Area=106,355 sf 0.00% Impervious Runoff Depth=0.38"
Flow Length=391' Tc=7.9 min CN=41 Runoff=0.34 cfs 0.077 af

Link DP-A: DESIGN POINT-A
Inflow=39.91 cfs 4.155 af
Primary=39.91 cfs 4.155 af

Link DP-B: DESIGN POINT-B
Inflow=19.23 cfs 1.886 af
Primary=19.23 cfs 1.886 af

Total Runoff Area = 66.257 ac Runoff Volume = 6.041 af Average Runoff Depth = 1.09"
100.00% Pervious = 66.257 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: PRE 1

Runoff = 39.82 cfs @ 12.18 hrs, Volume= 4.089 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
716,166	30	Woods, Good, HSG A
114,129	39	>75% Grass cover, Good, HSG A
13,867	96	Gravel surface, HSG A
122,131	55	Woods, Good, HSG B
79,410	61	>75% Grass cover, Good, HSG B
13,218	96	Gravel surface, HSG B
443,269	77	Woods, Good, HSG D
281,024	80	>75% Grass cover, Good, HSG D
19,227	96	Gravel surface, HSG D
1,802,441	55	Weighted Average
1,802,441	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass, Short n= 0.150 P2= 3.10"
6.8	812	0.0800	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	110	0.1400	1.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.1	972	Total			

Summary for Subcatchment 2A: PRE 2

Runoff = 0.26 cfs @ 12.40 hrs, Volume= 0.066 af, Depth= 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
40,069	30	Woods, Good, HSG A
48,855	39	>75% Grass cover, Good, HSG A
430	96	Gravel surface, HSG A
1,409	55	Woods, Good, HSG B
9,106	61	>75% Grass cover, Good, HSG B
611	96	Gravel surface, HSG B
3,186	80	>75% Grass cover, Good, HSG D
103,666	40	Weighted Average
103,666	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.8	350	Total			

Summary for Subcatchment 3A: PRE 3

Runoff = 0.76 cfs @ 12.37 hrs, Volume= 0.146 af, Depth= 0.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
117,833	30	Woods, Good, HSG A
2,183	39	>75% Grass cover, Good, HSG A
981	96	Gravel surface, HSG A
33,839	77	Woods, Good, HSG D
5,631	80	>75% Grass cover, Good, HSG D
1,680	96	Gravel surface, HSG D
162,147	43	Weighted Average
162,147		100.00% Pervious Area

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" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.6	405	0.1400	2.62		
10.1	455	Total			

Summary for Subcatchment 4A: PRE 4

Runoff = 8.34 cfs @ 12.13 hrs, Volume= 0.769 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
148,304	30	Woods, Good, HSG A
21,369	39	>75% Grass cover, Good, HSG A
6,659	96	Gravel surface, HSG A
155,855	77	Woods, Good, HSG D
6,241	80	>75% Grass cover, Good, HSG D
620	96	Gravel surface, HSG D
339,048	55	Weighted Average
339,048		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.5	254	0.1700	2.89		
0.4	36	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	122	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	462	Total			

Summary for Subcatchment 5A: PRE 5

Runoff = 10.70 cfs @ 12.11 hrs, Volume= 0.894 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
20,096	30	Woods, Good, HSG A
197,410	39	>75% Grass cover, Good, HSG A
5,312	96	Gravel surface, HSG A
8,370	77	Woods, Good, HSG D
138,407	80	>75% Grass cover, Good, HSG D
2,919	96	Gravel surface, HSG D
372,514	56	Weighted Average
372,514		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.3	391	0.1700	2.89		
6.0	441	Total			

Summary for Subcatchment 6A: PRE 6

Runoff = 0.34 cfs @ 12.39 hrs, Volume= 0.077 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
99,310	39	>75% Grass cover, Good, HSG A
4,549	61	>75% Grass cover, Good, HSG B
2,496	80	>75% Grass cover, Good, HSG D
106,355	41	Weighted Average
106,355		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"
2.2	341	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	391	Total			

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 43,758 ac, 0.00% Impervious, Inflow Depth = 1.14" for 25-year event
Inflow = 39.91 cfs @ 12.18 hrs, Volume= 4.155 af
Primary = 39.91 cfs @ 12.18 hrs, Volume= 4.155 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 22,499 ac, 0.00% Impervious, Inflow Depth = 1.01" for 25-year event
Inflow = 19.23 cfs @ 12.12 hrs, Volume= 1.886 af
Primary = 19.23 cfs @ 12.12 hrs, Volume= 1.886 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: PRE 1
Runoff Area=1,802,441 sf 0.00% Impervious Runoff Depth=2.12"
Flow Length=972' Tc=11.1 min CN=55 Runoff=80.19 cfs 7.323 af

Subcatchment2A: PRE 2
Runoff Area=103,666 sf 0.00% Impervious Runoff Depth=0.84"
Flow Length=350' Tc=6.8 min CN=40 Runoff=1.21 cfs 0.167 af

Subcatchment3A: PRE 3
Runoff Area=162,147 sf 0.00% Impervious Runoff Depth=1.07"
Flow Length=455' Tc=10.1 min CN=43 Runoff=2.71 cfs 0.333 af

Subcatchment4A: PRE 4
Runoff Area=339,048 sf 0.00% Impervious Runoff Depth=2.12"
Flow Length=462' Tc=7.7 min CN=55 Runoff=16.79 cfs 1.378 af

Subcatchment5A: PRE 5
Runoff Area=372,514 sf 0.00% Impervious Runoff Depth=2.22"
Flow Length=441' Tc=6.0 min CN=56 Runoff=20.65 cfs 1.581 af

Subcatchment6A: PRE 6
Runoff Area=106,355 sf 0.00% Impervious Runoff Depth=0.92"
Flow Length=391' Tc=7.9 min CN=41 Runoff=1.44 cfs 0.187 af

Link DP-A: DESIGN POINT-A
Inflow=81.41 cfs 7.490 af
Primary=81.41 cfs 7.490 af

Link DP-B: DESIGN POINT-B
Inflow=40.53 cfs 3.478 af
Primary=40.53 cfs 3.478 af

Total Runoff Area = 66.257 ac Runoff Volume = 10.969 af Average Runoff Depth = 1.99"
100.00% Pervious = 66.257 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: PRE 1

Runoff = 80.19 cfs @ 12.17 hrs, Volume= 7.323 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
716,166	30	Woods, Good, HSG A
114,129	39	>75% Grass cover, Good, HSG A
13,867	96	Gravel surface, HSG A
122,131	55	Woods, Good, HSG B
79,410	61	>75% Grass cover, Good, HSG B
13,218	96	Gravel surface, HSG B
443,269	77	Woods, Good, HSG D
281,024	80	>75% Grass cover, Good, HSG D
19,227	96	Gravel surface, HSG D
1,802,441	55	Weighted Average
1,802,441	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
6.8	812	0.0800	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.0	110	0.1400	1.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.1	972	Total			

Summary for Subcatchment 2A: PRE 2

Runoff = 1.21 cfs @ 12.16 hrs, Volume= 0.167 af, Depth= 0.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
40,069	30	Woods, Good, HSG A
48,855	39	>75% Grass cover, Good, HSG A
430	96	Gravel surface, HSG A
1,409	55	Woods, Good, HSG B
9,106	61	>75% Grass cover, Good, HSG B
611	96	Gravel surface, HSG B
3,186	80	>75% Grass cover, Good, HSG D
103,666	40	Weighted Average
103,666	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.9	300	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.8	350	Total			

Summary for Subcatchment 3A: PRE 3

Runoff = 2.71 cfs @ 12.19 hrs, Volume= 0.333 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
117,833	30	Woods, Good, HSG A
2,183	39	>75% Grass cover, Good, HSG A
981	96	Gravel surface, HSG A
33,839	77	Woods, Good, HSG D
5,631	80	>75% Grass cover, Good, HSG D
1,680	96	Gravel surface, HSG D
162,147	43	Weighted Average
162,147	100.00%	Pervious Area

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"
2.6	405	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.1	455	Total			

Summary for Subcatchment 4A: PRE 4

Runoff = 16.79 cfs @ 12.12 hrs, Volume= 1.378 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
148,304	30	Woods, Good, HSG A
21,369	39	>75% Grass cover, Good, HSG A
6,659	96	Gravel surface, HSG A
155,855	77	Woods, Good, HSG D
6,241	80	>75% Grass cover, Good, HSG D
620	96	Gravel surface, HSG D
339,048	55	Weighted Average
339,048	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.9	50	0.0300	0.17		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.5	254	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	36	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.9	122	0.1100	2.32		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	462	Total			

Summary for Subcatchment 5A: PRE 5

Runoff = 20.65 cfs @ 12.10 hrs, Volume= 1.581 af, Depth= 2.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
20,096	30	Woods, Good, HSG A
197,410	39	>75% Grass cover, Good, HSG A
5,312	96	Gravel surface, HSG A
8,370	77	Woods, Good, HSG D
138,407	80	>75% Grass cover, Good, HSG D
2,919	96	Gravel surface, HSG D
372,514	56	Weighted Average
372,514		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
2.3	391	0.1700	2.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.0	441	Total			

Summary for Subcatchment 6A: PRE 6

Runoff = 1.44 cfs @ 12.17 hrs, Volume= 0.187 af, Depth= 0.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
99,310	39	>75% Grass cover, Good, HSG A			
4,549	61	>75% Grass cover, Good, HSG B			
2,496	80	>75% Grass cover, Good, HSG D			
106,355	41	Weighted Average			
106,355		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"
2.2	341	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	391	Total			

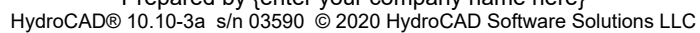
Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 43.758 ac, 0.00% Impervious, Inflow Depth = 2.05" for 100-year event
Inflow = 81.41 cfs @ 12.17 hrs, Volume= 7.490 af
Primary = 81.41 cfs @ 12.17 hrs, Volume= 7.490 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 22.499 ac, 0.00% Impervious, Inflow Depth = 1.86" for 100-year event
Inflow = 40.53 cfs @ 12.11 hrs, Volume= 3.478 af
Primary = 40.53 cfs @ 12.11 hrs, Volume= 3.478 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

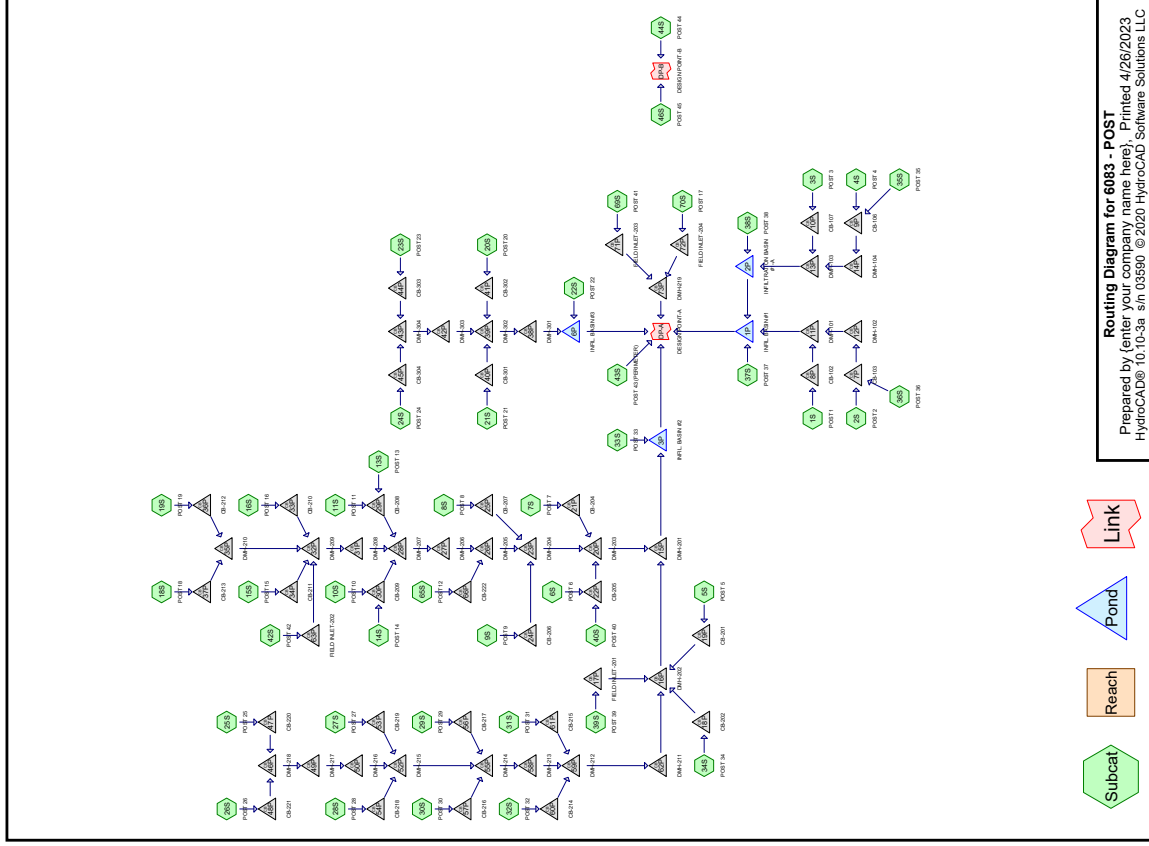
Appendix E - Proposed Conditions Hydrologic Calculations



6083 - POST

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year	Type III 24-hr	Default	Default	24.00	1	3.10	2
2	10-year	Type III 24-hr	Default	Default	24.00	1	4.60	2
3	25-year	Type III 24-hr	Default	Default	24.00	1	5.40	2
4	100-year	Type III 24-hr	Default	Default	24.00	1	7.00	2



Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method		
Subcatchment1S: POST 1	Runoff Area=4,483 sf	81.80% Impervious Runoff Depth=1.83" Tc=6.0 min CN=87 Runoff=0.22 cfs 0.016 af
Subcatchment2S: POST 2	Runoff Area=4,363 sf	81.46% Impervious Runoff Depth=1.83" Tc=6.0 min CN=87 Runoff=0.21 cfs 0.015 af
Subcatchment3S: POST 3	Runoff Area=5,733 sf	79.87% Impervious Runoff Depth=1.91" Tc=6.0 min CN=88 Runoff=0.29 cfs 0.021 af
Subcatchment4S: POST 4	Runoff Area=6,696 sf	82.11% Impervious Runoff Depth=1.99" Tc=6.0 min CN=89 Runoff=0.35 cfs 0.025 af
Subcatchment5S: POST 5	Runoff Area=1,758 sf	97.61% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af
Subcatchment6S: POST 6	Runoff Area=2,283 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.15 cfs 0.013 af
Subcatchment7S: POST 7	Runoff Area=2,223 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.15 cfs 0.012 af
Subcatchment8S: POST 8	Runoff Area=2,941 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
Subcatchment9S: POST 9	Runoff Area=27,588 sf	31.21% Impervious Runoff Depth=1.03" Tc=11.0 min CN=75 Runoff=0.61 cfs 0.054 af
Subcatchment10S: POST 10	Runoff Area=65,188 sf	21.80% Impervious Runoff Depth=0.40" Flow Length=7'18" Tc=10.2 min CN=61 Runoff=0.36 cfs 0.050 af
Subcatchment11S: POST 11	Runoff Area=3,352 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.23 cfs 0.018 af
Subcatchment13S: POST 13	Runoff Area=3,056 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.21 cfs 0.017 af
Subcatchment14S: POST 14	Runoff Area=2,995 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
Subcatchment15S: POST 15	Runoff Area=28,290 sf	44.46% Impervious Runoff Depth=1.75" Tc=6.0 min CN=86 Runoff=1.30 cfs 0.095 af
Subcatchment16S: POST 16	Runoff Area=2,911 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
Subcatchment18S: POST 18	Runoff Area=17,479 sf	30.12% Impervious Runoff Depth=1.67" Tc=6.0 min CN=85 Runoff=0.77 cfs 0.056 af

Subcatchment19S: POST 19	Runoff Area=1,672 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.11 cfs 0.009 af
Subcatchment20S: POST 20	Runoff Area=15,797 sf	36.80% Impervious Runoff Depth=1.83" Tc=6.0 min CN=87 Runoff=0.76 cfs 0.055 af
Subcatchment21S: POST 21	Runoff Area=29,809 sf	45.40% Impervious Runoff Depth=1.91" Tc=6.0 min CN=88 Runoff=1.49 cfs 0.109 af
Subcatchment22S: POST 22	Runoff Area=75,352 sf	7.54% Impervious Runoff Depth=1.33" Tc=6.0 min CN=80 Runoff=2.61 cfs 0.191 af
Subcatchment23S: POST 23	Runoff Area=17,079 sf	53.86% Impervious Runoff Depth=2.08" Tc=6.0 min CN=90 Runoff=0.93 cfs 0.068 af
Subcatchment24S: POST 24	Runoff Area=14,367 sf	38.23% Impervious Runoff Depth=1.83" Tc=6.0 min CN=87 Runoff=0.69 cfs 0.050 af
Subcatchment25S: POST 25	Runoff Area=22,287 sf	53.40% Impervious Runoff Depth=2.08" Tc=6.0 min CN=90 Runoff=1.21 cfs 0.089 af
Subcatchment26S: POST 26	Runoff Area=7,993 sf	53.05% Impervious Runoff Depth=2.08" Tc=6.0 min CN=90 Runoff=0.43 cfs 0.032 af
Subcatchment27S: POST 27	Runoff Area=3,003 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af
Subcatchment28S: POST 28	Runoff Area=3,037 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.017 af
Subcatchment29S: POST 29	Runoff Area=2,681 sf	100.00% Impervious Runoff Depth=2.87" Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af
Subcatchment30S: POST 30	Runoff Area=26,119 sf	46.16% Impervious Runoff Depth=1.91" Tc=6.0 min CN=88 Runoff=1.31 cfs 0.095 af
Subcatchment31S: POST 31	Runoff Area=24,121 sf	52.20% Impervious Runoff Depth=1.99" Tc=6.0 min CN=89 Runoff=1.26 cfs 0.092 af
Subcatchment32S: POST 32	Runoff Area=35,399 sf	37.89% Impervious Runoff Depth=1.83" Tc=6.0 min CN=87 Runoff=1.70 cfs 0.124 af
Subcatchment33S: POST 33	Runoff Area=12,676 sf	70.66% Impervious Runoff Depth=2.35" Tc=6.0 min CN=93 Runoff=0.76 cfs 0.057 af
Subcatchment34S: POST 34	Runoff Area=29,453 sf	45.13% Impervious Runoff Depth=1.91" Tc=6.0 min CN=88 Runoff=1.48 cfs 0.107 af
Subcatchment35S: POST 35	Runoff Area=14,637 sf	12.15% Impervious Runoff Depth=0.40" Tc=6.0 min CN=61 Runoff=0.09 cfs 0.011 af

Subcatchment36S: POST 36	Runoff Area=7,243 sf 0.00% Impervious Runoff Depth=0.00" Tc=6.0 min CN=39 Runoff=0.00 cfs 0.000 af
Subcatchment37S: POST 37	Runoff Area=13,313 sf 0.00% Impervious Runoff Depth=0.07" Tc=6.0 min CN=48 Runoff=0.00 cfs 0.002 af
Subcatchment38S: POST 38	Runoff Area=12,792 sf 0.00% Impervious Runoff Depth=0.01" Tc=6.0 min CN=43 Runoff=0.00 cfs 0.000 af
Subcatchment39S: POST 39	Runoff Area=10,871 sf 16.19% Impervious Runoff Depth=1.26" Tc=6.0 min UI Adjusted CN=79 Runoff=0.36 cfs 0.026 af
Subcatchment40S: POST 40	Runoff Area=11,225 sf 13.58% Impervious Runoff Depth=0.59" Tc=6.0 min UI Adjusted CN=66 Runoff=0.14 cfs 0.013 af
Subcatchment42S: POST 42	Runoff Area=119,594 sf 10.00% Impervious Runoff Depth=1.39" Flow Length=598' Tc=9.3 min CN=81 Runoff=3.90 cfs 0.318 af
Subcatchment43S: POST 43	Runoff Area=1,028,921 sf 0.63% Impervious Runoff Depth=0.05" Flow Length=497' Tc=11.3 min CN=46 Runoff=0.14 cfs 0.089 af
Subcatchment44S: POST 44	Runoff Area=445,393 sf 2.08% Impervious Runoff Depth=0.17" Tc=6.0 min CN=53 Runoff=0.54 cfs 0.147 af
Subcatchment46S: POST 45	Runoff Area=458,256 sf 0.70% Impervious Runoff Depth=0.05" Tc=10.1 min CN=46 Runoff=0.06 cfs 0.040 af
Subcatchment65S: POST 12	Runoff Area=46,393 sf 25.32% Impervious Runoff Depth=0.68" Flow Length=529' Tc=8.6 min CN=68 Runoff=0.64 cfs 0.060 af
Subcatchment69S: POST 41	Runoff Area=144,249 sf 0.00% Impervious Runoff Depth=0.44" Flow Length=555' Tc=9.6 min CN=62 Runoff=0.93 cfs 0.121 af
Subcatchment70S: POST 17	Runoff Area=71,092 sf 0.00% Impervious Runoff Depth=0.09" Tc=6.0 min CN=49 Runoff=0.02 cfs 0.012 af
Pond 1P: INFIL. BASIN#1	Discarded=0.05 cfs 0.033 af Peak Elev=246.96' Storage=603 cf Inflow=0.43 cfs 0.033 af Discarded=0.05 cfs 0.033 af Primary=0.00 cfs 0.000 af Outflow=0.05 cfs 0.033 af
Pond 2P: INFILTRATIONBASIN#1-A	Discarded=0.15 cfs 0.058 af Peak Elev=253.26' Storage=650 cf Inflow=0.72 cfs 0.058 af Discarded=0.15 cfs 0.058 af Primary=0.00 cfs 0.000 af Outflow=0.15 cfs 0.058 af
Pond 3P: INFIL. BASIN#2	Discarded=0.54 cfs 0.491 af Peak Elev=268.04' Storage=25,583 cf Inflow=17.79 cfs 1.443 af Discarded=0.54 cfs 0.491 af Primary=2.45 cfs 0.962 af Outflow=2.99 cfs 1.443 af
Pond 6P: INFIL. BASIN#3	Discarded=0.22 cfs 0.386 af Peak Elev=315.52' Storage=11,146 cf Inflow=6.48 cfs 0.473 af Discarded=0.22 cfs 0.386 af Primary=0.25 cfs 0.087 af Outflow=0.47 cfs 0.473 af
Pond 7P: CB-103	12.0" Round Culvert n=0.012 L=20.0' S=0.0050 '/' Outflow=0.21 cfs 0.015 af Peak Elev=248.17'

Pond 8P: CB-102	12.0" Round Culvert n=0.012 L=17.0' S=0.0176 '/' Outflow=0.22 cfs 0.016 af Peak Elev=247.06'
Pond 9P: CB-106	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Outflow=0.43 cfs 0.037 af Peak Elev=258.87'
Pond 10P: CB-107	12.0" Round Culvert n=0.012 L=57.0' S=0.0737 '/' Outflow=0.29 cfs 0.021 af Peak Elev=259.00'
Pond 11P: DMH-101	12.0" Round Culvert n=0.012 L=105.0' S=0.0133 '/' Outflow=0.43 cfs 0.031 af Peak Elev=246.77'
Pond 12P: DMH-102	12.0" Round Culvert n=0.012 L=113.0' S=0.0071 '/' Outflow=0.21 cfs 0.015 af Peak Elev=247.95'
Pond 13P: DMH-103	12.0" Round Culvert n=0.012 L=77.0' S=0.0130 '/' Outflow=0.72 cfs 0.058 af Peak Elev=254.49'
Pond 14P: DMH-104	12.0" Round Culvert n=0.012 L=91.0' S=0.0253 '/' Outflow=0.43 cfs 0.037 af Peak Elev=258.47'
Pond 15P: DMH-201	36.0" Round Culvert n=0.012 L=41.0' S=0.0390 '/' Outflow=17.04 cfs 1.386 af Peak Elev=266.47'
Pond 16P: DMH-202	24.0" Round Culvert n=0.012 L=77.0' S=0.0766 '/' Outflow=8.45 cfs 0.622 af Peak Elev=278.42'
Pond 17P: FIELD INLET-201	12.0" Round Culvert n=0.012 L=46.0' S=0.0174 '/' Outflow=0.36 cfs 0.026 af Peak Elev=279.13'
Pond 18P: CB-202	12.0" Round Culvert n=0.012 L=19.0' S=0.0474 '/' Outflow=1.48 cfs 0.107 af Peak Elev=279.65'
Pond 19P: CB-201	12.0" Round Culvert n=0.012 L=43.0' S=0.0116 '/' Outflow=0.12 cfs 0.010 af Peak Elev=278.69'
Pond 20P: DMH-203	30.0" Round Culvert n=0.012 L=70.0' S=0.0871 '/' Outflow=8.76 cfs 0.764 af Peak Elev=277.98'
Pond 21P: CB-204	12.0" Round Culvert n=0.012 L=20.0' S=0.0550 '/' Outflow=0.15 cfs 0.012 af Peak Elev=280.31'
Pond 22P: CB-205	12.0" Round Culvert n=0.012 L=33.0' S=0.0333 '/' Outflow=0.29 cfs 0.025 af Peak Elev=280.40'
Pond 23P: DMH-204	30.0" Round Culvert n=0.012 L=192.0' S=0.0042 '/' Outflow=8.33 cfs 0.726 af Peak Elev=278.86'
Pond 24P: CB-206	24.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=0.61 cfs 0.054 af Peak Elev=281.96'

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Pond 25P: CB-207

12.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=0.20 cfs 0.016 af
Peak Elev=281.84' Inflow=0.20 cfs 0.016 af

Pond 26P: DMH-205

30.0" Round Culvert n=0.012 L=151.0' S=0.0040 '/' Outflow=7.60 cfs 0.656 af
Peak Elev=279.52' Inflow=7.60 cfs 0.656 af

Pond 27P: DMH-206

30.0" Round Culvert n=0.012 L=168.0' S=0.0042 '/' Outflow=6.98 cfs 0.596 af
Peak Elev=280.24' Inflow=6.98 cfs 0.596 af

Pond 28P: DMH-207

30.0" Round Culvert n=0.012 L=268.0' S=0.0041 '/' Outflow=6.98 cfs 0.596 af
Peak Elev=281.41' Inflow=6.98 cfs 0.596 af

Pond 29P: CB-208

12.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=0.43 cfs 0.035 af
Peak Elev=282.57' Inflow=0.43 cfs 0.035 af

Pond 30P: CB-209

15.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=0.48 cfs 0.067 af
Peak Elev=282.56' Inflow=0.48 cfs 0.067 af

Pond 31P: DMH-208

24.0" Round Culvert n=0.012 L=165.0' S=0.0170 '/' Outflow=6.13 cfs 0.494 af
Peak Elev=284.74' Inflow=6.13 cfs 0.494 af

Pond 32P: DMH-209

24.0" Round Culvert n=0.012 L=150.0' S=0.0853 '/' Outflow=6.13 cfs 0.494 af
Peak Elev=297.64' Inflow=6.13 cfs 0.494 af

Pond 33P: CB-210

12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=0.20 cfs 0.016 af
Peak Elev=298.24' Inflow=0.20 cfs 0.016 af

Pond 34P: CB-211

12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=1.30 cfs 0.095 af
Peak Elev=298.69' Inflow=1.30 cfs 0.095 af

Pond 35P: DMH-210

12.0" Round Culvert n=0.012 L=322.0' S=0.0565 '/' Outflow=0.88 cfs 0.065 af
Peak Elev=316.15' Inflow=0.88 cfs 0.065 af

Pond 36P: CB-212

12.0" Round Culvert n=0.012 L=13.0' S=0.0231 '/' Outflow=0.11 cfs 0.009 af
Peak Elev=316.18' Inflow=0.11 cfs 0.009 af

Pond 37P: CB-213

12.0" Round Culvert n=0.012 L=13.0' S=0.0231 '/' Outflow=0.77 cfs 0.056 af
Peak Elev=316.51' Inflow=0.77 cfs 0.056 af

Pond 38P: DMH-301

18.0" Round Culvert n=0.012 L=71.0' S=0.0549 '/' Outflow=3.87 cfs 0.282 af
Peak Elev=316.99' Inflow=3.87 cfs 0.282 af

Pond 39P: DMH-302

18.0" Round Culvert n=0.012 L=154.0' S=0.0208 '/' Outflow=3.87 cfs 0.282 af
Peak Elev=320.29' Inflow=3.87 cfs 0.282 af

Pond 40P: CB-301

12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=1.49 cfs 0.109 af
Peak Elev=320.76' Inflow=1.49 cfs 0.109 af

Pond 41P: CB-302

12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=0.76 cfs 0.055 af
Peak Elev=320.51' Inflow=0.76 cfs 0.055 af

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Pond 42P: DMH-303

12.0" Round Culvert n=0.012 L=129.0' S=0.0636 '/' Outflow=1.62 cfs 0.118 af
Peak Elev=328.70' Inflow=1.62 cfs 0.118 af

Pond 43P: DMH-304

12.0" Round Culvert n=0.012 L=129.0' S=0.0612 '/' Outflow=1.62 cfs 0.118 af
Peak Elev=336.70' Inflow=1.62 cfs 0.118 af

Pond 44P: CB-303

12.0" Round Culvert n=0.012 L=17.0' S=0.0235 '/' Outflow=0.93 cfs 0.068 af
Peak Elev=336.97' Inflow=0.93 cfs 0.068 af

Pond 45P: CB-304

12.0" Round Culvert n=0.012 L=16.0' S=0.0250 '/' Outflow=0.69 cfs 0.050 af
Peak Elev=336.88' Inflow=0.69 cfs 0.050 af

Pond 46P: DMH-218

12.0" Round Culvert n=0.012 L=81.0' S=0.0481 '/' Outflow=1.64 cfs 0.120 af
Peak Elev=332.91' Inflow=1.64 cfs 0.120 af

Pond 47P: CB-220

12.0" Round Culvert n=0.012 L=15.0' S=0.0200 '/' Outflow=1.21 cfs 0.089 af
Peak Elev=333.16' Inflow=1.21 cfs 0.089 af

Pond 48P: CB-221

12.0" Round Culvert n=0.012 L=9.0' S=0.0333 '/' Outflow=0.43 cfs 0.032 af
Peak Elev=332.87' Inflow=0.43 cfs 0.032 af

Pond 49P: DMH-217

12.0" Round Culvert n=0.012 L=147.0' S=0.0463 '/' Outflow=1.64 cfs 0.120 af
Peak Elev=328.91' Inflow=1.64 cfs 0.120 af

Pond 50P: DMH-216

12.0" Round Culvert n=0.012 L=118.0' S=0.0263 '/' Outflow=1.64 cfs 0.120 af
Peak Elev=322.01' Inflow=1.64 cfs 0.120 af

Pond 52P: DMH-215

15.0" Round Culvert n=0.012 L=247.0' S=0.0320 '/' Outflow=2.05 cfs 0.153 af
Peak Elev=318.71' Inflow=2.05 cfs 0.153 af

Pond 53P: CB-219

12.0" Round Culvert n=0.012 L=21.0' S=0.0143 '/' Outflow=0.20 cfs 0.016 af
Peak Elev=318.65' Inflow=0.20 cfs 0.016 af

Pond 54P: CB-218

12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Outflow=0.20 cfs 0.017 af
Peak Elev=318.65' Inflow=0.20 cfs 0.017 af

Pond 55P: DMH-214

18.0" Round Culvert n=0.012 L=95.0' S=0.0442 '/' Outflow=3.54 cfs 0.263 af
Peak Elev=310.83' Inflow=3.54 cfs 0.263 af

Pond 56P: CB-217

12.0" Round Culvert n=0.012 L=20.0' S=0.0150 '/' Outflow=0.18 cfs 0.015 af
Peak Elev=312.43' Inflow=0.18 cfs 0.015 af

Pond 57P: CB-216

12.0" Round Culvert n=0.012 L=11.0' S=0.0273 '/' Outflow=1.31 cfs 0.095 af
Peak Elev=312.90' Inflow=1.31 cfs 0.095 af

Pond 58P: DMH-213

18.0" Round Culvert n=0.012 L=226.0' S=0.0677 '/' Outflow=3.54 cfs 0.263 af
Peak Elev=306.53' Inflow=3.54 cfs 0.263 af

Pond 59P: DMH-212

24.0" Round Culvert n=0.012 L=91.0' S=0.0626 '/' Outflow=6.50 cfs 0.479 af
Peak Elev=290.99' Inflow=6.50 cfs 0.479 af

Pond 60P: CB-214	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Inflow=1.70 cfs 0.124 af Outflow=1.70 cfs 0.124 af
Pond 61P: CB-215	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Inflow=1.26 cfs 0.092 af Outflow=1.26 cfs 0.092 af
Pond 62P: DMH-211	24.0" Round Culvert n=0.012 L=144.0' S=0.0479 '/' Inflow=6.50 cfs 0.479 af Outflow=6.50 cfs 0.479 af
Pond 63P: FIELD INLET-202	24.0" Round Culvert n=0.012 L=137.0' S=0.0226 '/' Inflow=3.90 cfs 0.318 af Outflow=3.90 cfs 0.318 af
Pond 66P: CB-222	12.0" Round Culvert n=0.012 L=29.0' S=0.0207 '/' Inflow=0.64 cfs 0.060 af Outflow=0.64 cfs 0.060 af
Pond 71P: FIELD INLET-203	18.0" Round Culvert n=0.012 L=28.0' S=0.0821 '/' Inflow=0.93 cfs 0.121 af Outflow=0.93 cfs 0.121 af
Pond 72P: FIELD INLET-204	18.0" Round Culvert n=0.012 L=50.0' S=0.0460 '/' Inflow=0.02 cfs 0.012 af Outflow=0.02 cfs 0.012 af
Pond 73P: DMH-219	18.0" Round Culvert n=0.012 L=86.0' S=0.0465 '/' Inflow=0.93 cfs 0.133 af Outflow=0.93 cfs 0.133 af
Link DP-A: DESIGN POINT-A	Inflow=3.14 cfs 1.262 af Primary=3.14 cfs 1.262 af
Link DP-B: DESIGN POINT-B	Inflow=0.54 cfs 0.187 af Primary=0.54 cfs 0.187 af

Total Runoff Area = 66.257 ac Runoff Volume = 2.417 af Average Runoff Depth = 0.44"
91.21% Pervious = 60.432 ac 8.79% Impervious = 5.825 ac

Summary for Subcatchment 1S: POST 1

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 0.016 af, Depth= 1.83"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,667	98	Paved parking, HSG A
816	39	>75% Grass cover, Good, HSG A
4,483	87	Weighted Average
816		18.20% Pervious Area
3,667		81.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: POST 2

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af, Depth= 1.83"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,554	98	Paved parking, HSG A
809	39	>75% Grass cover, Good, HSG A
4,363	87	Weighted Average
809		18.54% Pervious Area
3,554		81.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, HSG A

Summary for Subcatchment 3S: POST 3

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.021 af, Depth= 1.91"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,947	98	Paved parking, HSG A
908	39	>75% Grass cover, Good, HSG A
632	98	Paved parking, HSG D
246	80	>75% Grass cover, Good, HSG D
5,733	88	Weighted Average
1,154		20.13% Pervious Area
4,579		79.87% Impervious Area
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		Direct Entry.

Summary for Subcatchment 4S: POST 4

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.025 af, Depth= 1.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,254	98	Paved parking, HSG A
879	39	>75% Grass cover, Good, HSG A
2,244	98	Paved parking, HSG D
319	80	>75% Grass cover, Good, HSG D
6,696	89	Weighted Average
1,198		17.89% Pervious Area
5,498		82.11% Impervious Area
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		Direct Entry.

Summary for Subcatchment 5S: POST 5

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
509	98	Paved parking, HSG A
1,207	98	Paved parking, HSG D
42	80	>75% Grass cover, Good, HSG D
1,758	98	Weighted Average
42		2.39% Pervious Area
1,716		97.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: POST 6

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 0.013 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,283	98	Paved parking, HSG A
2,283		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: POST 7

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 0.012 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,223	98	Paved parking, HSG A
2,223		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: POST 8

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,941	98	Paved parking, HSG A
2,941		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: POST 9

Runoff = 0.61 cfs @ 12.17 hrs, Volume= 0.054 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,700	98	Roofs, HSG D
12,013	80	>75% Grass cover, Good, HSG D
2,271	98	Roofs, HSG A
3,638	98	Paved parking, HSG A
6,966	39	>75% Grass cover, Good, HSG A
27,588	75	Weighted Average
18,979	68	79% Pervious Area
8,609	31	21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0					Direct Entry,

Summary for Subcatchment 10S: POST 10

Runoff = 0.36 cfs @ 12.22 hrs, Volume= 0.050 af, Depth= 0.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,999	98	Roofs, HSG D
1,658	98	Paved parking, HSG D
413	98	Unconnected pavement, HSG D
16,156	80	>75% Grass cover, Good, HSG D
4,870	98	Roofs, HSG A
3,489	98	Paved parking, HSG A
784	98	Unconnected pavement, HSG A
28,504	39	>75% Grass cover, Good, HSG A
6,315	30	Woods, Good, HSG A
65,188	61	Weighted Average
50,975	78	20% Pervious Area
14,213	21	80% Impervious Area
1,197	8	42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow,
1.6	205	0.0900	2.10		Grass, Short n= 0.150 P2= 3.10"
					Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.7	53	0.0700	1.32		Shallow Concentrated Flow,
					Woodland Kv= 5.0 fps
1.8	152	0.0400	1.40		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	258	0.0080	1.82		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
10.2	718	Total			

Summary for Subcatchment 11S: POST 11

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.018 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,352	98	Paved parking, HSG A
3,352		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: POST 13

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 0.017 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,056	98	Paved parking, HSG A
3,056		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: POST 14

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth= 2.87"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
2,995	98	Paved parking, HSG A			
2,995		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 15S: POST 15

Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Depth= 1.75"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,736	98	Roofs, HSG D
7,798	98	Paved parking, HSG D
709	98	Unconnected pavement, HSG D
14,515	80	>75% Grass cover, Good, HSG D
1,051	98	Paved parking, HSG A
285	98	Unconnected pavement, HSG A
1,196	39	>75% Grass cover, Good, HSG A
28,290	86	Weighted Average
15,711		55.54% Pervious Area
12,579		44.46% Impervious Area
994		7.90% Unconnected
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		
		Direct Entry.

Summary for Subcatchment 16S: POST 16

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth= 2.87"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Summary for Subcatchment 18S: POST 18

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 0.056 af, Depth= 1.67"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
921	98	Paved parking, HSG A			
1,990	98	Paved parking, HSG D			
2,911	98	Weighted Average			
2,911		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 19S: POST 19

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 0.009 af, Depth= 2.87"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
1,536	98	Roofs, HSG D
3,103	98	Paved parking, HSG D
626	98	Unconnected pavement, HSG D
12,214	80	>75% Grass cover, Good, HSG D
17,479	85	Weighted Average
12,214		69.88% Pervious Area
5,265		30.12% Impervious Area
626		11.89% Unconnected
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		
Direct Entry,		

Summary for Subcatchment 19S: POST 19

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 0.009 af, Depth= 2.87"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
1,672	98	Paved parking, HSG D			
1,672		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

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Type III 24-hr 2-year Rainfall=3.10"

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Summary for Subcatchment 20S: POST 20

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.055 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
836	98	Roofs, HSG D
3,970	98	Paved parking, HSG D
1,008	98	Unconnected roofs, HSG D
9,983	80	>75% Grass cover, Good, HSG D
15,797	87	Weighted Average
9,983		63.20% Pervious Area
5,814		36.80% Impervious Area
1,008		17.34% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 21S: POST 21

Runoff = 1.49 cfs @ 12.09 hrs, Volume= 0.109 af, Depth= 1.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
4,656	98	Roofs, HSG D
8,878	98	Paved parking, HSG D
16,275	80	>75% Grass cover, Good, HSG D
29,809	88	Weighted Average
16,275		54.60% Pervious Area
13,534		45.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 22S: POST 22

Runoff = 2.61 cfs @ 12.10 hrs, Volume= 0.191 af, Depth= 1.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"**6083 - POST**

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Type III 24-hr 2-year Rainfall=3.10"

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Summary for Subcatchment 23S: POST 23

Runoff = 0.93 cfs @ 12.09 hrs, Volume= 0.068 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
5,682	98	Roofs, HSG D
47,489	80	>75% Grass cover, Good, HSG D
20,927	77	Woods, Good, HSG D
1,254	30	Woods, Good, HSG A
75,352	80	Weighted Average
69,670		92.46% Pervious Area
5,682		7.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 24S: POST 24

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,928	98	Roofs, HSG D
6,271	98	Paved parking, HSG D
7,880	80	>75% Grass cover, Good, HSG D
17,079	90	Weighted Average
7,880		46.14% Pervious Area
9,199		53.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 25S: POST 25

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af, Depth= 1.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
1,299	98	Roofs, HSG D
3,427	98	Paved parking, HSG D
767	98	Unconnected pavement, HSG D
8,874	80	>75% Grass cover, Good, HSG D
14,367	87	Weighted Average
8,874		61.77% Pervious Area
5,493		38.23% Impervious Area
767		13.96% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 25S: POST 25

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 0.089 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,925	98	Roofs, HSG D
8,071	98	Paved parking, HSG D
905	98	Unconnected pavement, HSG D
10,386	80	>75% Grass cover, Good, HSG D
22,287	90	Weighted Average

10,386 46.60% Pervious Area
11,901 53.40% Impervious Area
905 7.60% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 26S: POST 26

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 0.032 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
468	98	Roofs, HSG D
3,772	98	Paved parking, HSG D
3,753	80	>75% Grass cover, Good, HSG D
7,993	90	Weighted Average
3,753		46.95% Pervious Area
4,240		53.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 27S: POST 27

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.016 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,003	98	Paved parking, HSG D
3,003		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 28S: POST 28

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,037	98	Paved parking, HSG D
3,037		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 29S: POST 29

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,681	98	Paved parking, HSG D
2,681		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 30S: POST 30

Runoff = 1.31 cfs @ 12.09 hrs, Volume= 0.095 af, Depth= 1.91"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
3,210	98	Roofs, HSG D			
8,847	98	Paved parking, HSG D			
14,062	80	>75% Grass cover, Good, HSG D			
26,119	88	Weighted Average			
14,062		53.84% Pervious Area			
12,057		46.16% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 31S: POST 31

Runoff = 1.26 cfs @ 12.09 hrs, Volume= 0.092 af, Depth= 1.99"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,204	98	Roofs, HSG D
8,044	98	Paved parking, HSG D
1,343	98	Unconnected pavement, HSG D
11,530	80	>75% Grass cover, Good, HSG D
24,121	89	Weighted Average
11,530		47.80% Pervious Area
12,591		52.20% Impervious Area
1,343		10.67% Unconnected
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description

Summary for Subcatchment 32S: POST 32

Runoff = 1.70 cfs @ 12.09 hrs, Volume= 0.124 af, Depth= 1.83"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
4,350	98	Roofs, HSG D			
9,063	98	Paved parking, HSG D			
21,986	80	>75% Grass cover, Good, HSG D			
35,399	87	Weighted Average			
21,986		62.11% Pervious Area			
13,413		37.89% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 33S: POST 33

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.057 af, Depth= 2.35"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
1,908	98	Roofs, HSG D			
6,727	98	Paved parking, HSG D			
216	98	Unconnected pavement, HSG D			
106	98	Paved parking, HSG A			
3,719	80	>75% Grass cover, Good, HSG D			
12,676	93	Weighted Average			
3,719		29.34% Pervious Area			
8,957		70.66% Impervious Area			
216		2.41% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 34S: POST 34

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.107 af, Depth= 1.91"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
3,227	98	Roofs, HSG D
10,066	98	Paved parking, HSG D
16,160	80	>75% Grass cover, Good, HSG D
29,453	88	Weighted Average
16,160		54.87% Pervious Area
13,293		45.13% Impervious Area

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Type III 24-hr 2-year Rainfall=3.10"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 35S: POST 35

Runoff = 0.09 cfs @ 12.14 hrs, Volume= 0.011 af, Depth= 0.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
5,253	80	>75% Grass cover, Good, HSG D
7,605	39	>75% Grass cover, Good, HSG A
1,779	98	Roofs, HSG D
14,637	61	Weighted Average
12,858		87.85% Pervious Area
1,779		12.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 36S: POST 36

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
7,243	39	>75% Grass cover, Good, HSG A
7,243		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 37S: POST 37

Runoff = 0.00 cfs @ 14.74 hrs, Volume= 0.002 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"**6083 - POST**

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Type III 24-hr 2-year Rainfall=3.10"

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Area (sf)	CN	Description
8,816	39	>75% Grass cover, Good, HSG A
3,764	61	>75% Grass cover, Good, HSG B
381	96	Gravel surface, HSG A
352	96	Gravel surface, HSG B
13,313	48	Weighted Average
13,313		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 38S: POST 38

Runoff = 0.00 cfs @ 21.24 hrs, Volume= 0.000 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
11,263	39	>75% Grass cover, Good, HSG A
1,102	61	>75% Grass cover, Good, HSG B
427	96	Gravel surface, HSG A
12,792	43	Weighted Average
12,792		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: POST 39

Runoff = 0.36 cfs @ 12.10 hrs, Volume= 0.026 af, Depth= 1.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Adj	Description
810	98		Roofs, HSG D
8,229	80		>75% Grass cover, Good, HSG D
748	98		Unconnected pavement, HSG D
882	39		>75% Grass cover, Good, HSG A
202	98		Unconnected pavement, HSG A
10,871	80	79	Weighted Average, UI Adjusted
9,111			83.81% Pervious Area
1,760			16.19% Impervious Area
950			53.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: POST 40

Runoff = 0.14 cfs @ 12.11 hrs, Volume= 0.013 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Adj	Description
1,018	98		Roofs, HSG D
5,471	80		>75% Grass cover, Good, HSG D
506	98		Unconnected pavement, HSG A
4,230	39		>75% Grass cover, Good, HSG A
11,225	67	66	Weighted Average, UI Adjusted
9,701			86.42% Pervious Area
1,524			13.58% Impervious Area
506			33.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 42S: POST 42

Runoff = 3.90 cfs @ 12.14 hrs, Volume= 0.318 af, Depth= 1.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
91,127	80	>75% Grass cover, Good, HSG D
15,663	77	Woods, Good, HSG D
11,784	98	Roofs, HSG D
174	98	Roofs, HSG A
846	39	>75% Grass cover, Good, HSG A
119,594	81	Weighted Average
107,636		90.00% Pervious Area
11,958		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass, Short n= 0.150 P2= 3.10"
1.0	91	0.0430	1.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.2	72	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	71	0.0980	2.19		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.3	314	0.0500	1.57		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
9.3	598	Total			

Summary for Subcatchment 43S: POST 43 (PERIMETER)

Runoff = 0.14 cfs @ 15.37 hrs, Volume= 0.089 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
153,802	39	>75% Grass cover, Good, HSG A
480,558	30	Woods, Good, HSG A
119,742	55	Woods, Good, HSG B
3,192	98	Roofs, HSG D
110,786	61	>75% Grass cover, Good, HSG B
83,132	77	Woods, Good, HSG D
4,334	96	Gravel surface, HSG A
794	96	Gravel surface, HSG D
3,302	98	Unconnected pavement, HSG A
55,819	80	>75% Grass cover, Good, HSG D
13,460	96	Gravel surface, HSG B
1,028,921	46	Weighted Average
1,022,427		99.37% Pervious Area
6,494		0.63% Impervious Area
3,302		50.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
3.4	337	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	110	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.3	497	Total			

Summary for Subcatchment 44S: POST 44

Runoff = 0.54 cfs @ 12.40 hrs, Volume= 0.147 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
268,531	39	>75% Grass cover, Good, HSG A
20,513	30	Woods, Good, HSG A
6,364	77	Woods, Good, HSG D
140,721	80	>75% Grass cover, Good, HSG D
9,264	98	Roofs, HSG D
445,393	53	Weighted Average
436,129		97.92% Pervious Area
9,264		2.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 46S: POST 45

Runoff = 0.06 cfs @ 15.35 hrs, Volume= 0.040 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description			
241,884	30	Woods, Good, HSG A			
95,851	77	Woods, Good, HSG D			
7,023	96	Gravel surface, HSG A			
2,364	96	Gravel surface, HSG D			
79,566	39	>75% Grass cover, Good, HSG A			
28,376	80	>75% Grass cover, Good, HSG D			
3,192	98	Roofs, HSG D			
458,256	46	Weighted Average			
455,064		99.30% Pervious Area			
3,192		0.70% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1					Direct Entry,

Summary for Subcatchment 65S: POST 12

Runoff = 0.64 cfs @ 12.15 hrs, Volume= 0.060 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
2,804	98	Roofs, HSG D
2,957	98	Paved parking, HSG D
102	98	Unconnected pavement, HSG D
15,718	80	>75% Grass cover, Good, HSG D
2,914	98	Roofs, HSG A
2,970	98	Paved parking, HSG A
18,928	39	>75% Grass cover, Good, HSG A
46,393	68	Weighted Average
34,646		74.68% Pervious Area
11,747		25.32% Impervious Area
102		0.87% Unconnected

Summary for Subcatchment 69S: POST 41

Runoff = 0.93 cfs @ 12.19 hrs, Volume= 0.121 af, Depth= 0.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
4,940	96	Gravel surface, HSG D
16,434	77	Woods, Good, HSG D
25,175	39	>75% Grass cover, Good, HSG A
31,571	30	Woods, Good, HSG A
66,129	80	>75% Grass cover, Good, HSG D
144,249	62	Weighted Average
144,249		100.00% Pervious Area

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Type III 24-hr 2-year Rainfall=3.10"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	50	0.1000	0.28		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
3.9	392	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.7	113	0.0800	0.71		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
9.6	555	Total			

Summary for Subcatchment 70S: POST 17

Runoff = 0.02 cfs @ 13.80 hrs, Volume= 0.012 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-year Rainfall=3.10"

Area (sf)	CN	Description
473	96	Gravel surface, HSG D
12,174	80	>75% Grass cover, Good, HSG D
3,962	96	Gravel surface, HSG A
1,839	30	Woods, Good, HSG A
52,644	39	>75% Grass cover, Good, HSG A
71,092	49	Weighted Average
71,092		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: INFIL BASIN #1

Inflow Area = 1.590 ac, 27.54% Impervious, Inflow Depth = 0.25" for 2-year event
Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.033 af
Outflow = 0.05 cfs @ 12.93 hrs, Volume= 0.033 af, Atten= 89%, Lag= 50.5 min
Discarded = 0.05 cfs @ 12.93 hrs, Volume= 0.033 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 246.96 @ 12.93 hrs Surf.Area= 605 sf Storage= 603 cfPlug-Flow detention time= 169.7 min calculated for 0.033 af (100% of inflow)
Center-of-Mass det. time= 169.7 min (1,003.5 - 833.8)

Volume	Invert	Avail.Storage	Storage Description
#1	245.00'	34,907 cf	Custom Stage Data (Irregular) listed below (Recalc)

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Type III 24-hr 2-year Rainfall=3.10"

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
245.00	111	47.0	0	0	111
246.00	280	66.0	189	189	291
248.00	1,100	152.0	1,290	1,479	1,799
250.00	2,410	245.0	3,425	4,905	4,763
252.00	3,995	283.0	6,339	11,243	6,445
254.00	5,894	332.0	9,828	21,071	8,921
256.00	7,996	370.0	13,837	34,907	11,157

Device Routing Invert Outlet Devices

#1	Discarded	245.00'	2,410 in/hr Exfiltration over Surface area	Conductivity to Groundwater Elevation = 243.00'
#2	Primary	255.00'	10.0' long x 13.0' breadth Broad-Crested Rectangular Weir	
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60	
			Coef. (English) 2.60 2.64 2.70 2.66 2.65 2.66 2.65 2.63	

Discarded OutFlow Max=0.05 cfs @ 12.93 hrs HW=246.96' (Free Discharge)
1=Exfiltration (Controls 0.05 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=245.00' (Free Discharge)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)**Summary for Pond 2P: INFILTRATION BASIN #1-A**

Inflow Area = 0.915 ac, 29.75% Impervious, Inflow Depth = 0.76" for 2-year event
Inflow = 0.72 cfs @ 12.10 hrs, Volume= 0.058 af
Outflow = 0.15 cfs @ 12.57 hrs, Volume= 0.058 af, Atten= 79%, Lag= 28.1 min
Discarded = 0.15 cfs @ 12.57 hrs, Volume= 0.058 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 253.26 @ 12.57 hrs Surf.Area= 2,597 sf Storage= 650 cfPlug-Flow detention time= 30.9 min calculated for 0.058 af (100% of inflow)
Center-of-Mass det. time= 30.8 min (867.8 - 837.0)

Volume	Invert	Avail.Storage	Storage Description
#1	253.00'	10,119 cf	Custom Stage Data (Irregular) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
253.00	2,452	186.0	0	0	2,452
254.00	3,038	205.0	2,740	2,740	3,075
255.00	3,680	224.0	3,354	6,094	3,758
256.00	4,380	242.0	4,025	10,119	4,465

Device Routing Invert Outlet Devices

#1	Discarded	253.00'	2,410 in/hr Exfiltration over Surface area	Conductivity to Groundwater Elevation = 243.00'
#2	Primary	255.50'	8.0' long x 10.0' breadth Broad-Crested Rectangular Weir	

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.67 2.67 2.64

Discarded OutFlow Max=0.15 cfs @ 12.57 hrs HW=253.26' (Free Discharge)
1=Exfiltration (Controls 0.15 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=253.00' (Free Discharge)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 3P: INFIL. BASIN #2

Inflow Area = 11,859 ac, 34.07% Impervious, Inflow Depth = 1.46" for 2-year event
Inflow = 17.79 cfs @ 12.10 hrs, Volume= 1,443 af
Outflow = 2.99 cfs @ 12.66 hrs, Volume= 1,443 af, Atten= 83%, Lag= 33.5 min
Discarded = 0.54 cfs @ 12.66 hrs, Volume= 0.491 af
Primary = 2.45 cfs @ 12.66 hrs, Volume= 0.952 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 268.04' @ 12.66 hrs Surf.Area= 7,243 sf Storage= 25,583 cf

Plug-Flow detention time= 137.7 min calculated for 1,442 af (100% of inflow)
Center-of-Mass det. time= 137.9 min (962.4 - 824.5)

Volume	Invert	Avail.Storage	Storage Description	Custom Stage Data (Irregular)	Listed below (Recalc)
#1	263.00'	87,659 cf			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
263.00	3,149	223.0	0	0	3,149
264.00	3,847	242.0	3,492	3,492	3,890
266.00	5,412	280.0	9,215	12,707	5,552
268.00	7,203	317.0	12,572	25,279	7,408
270.00	9,220	355.0	16,382	41,661	9,549
272.00	11,463	393.0	20,642	62,303	11,931
274.00	13,933	430.0	25,356	87,659	14,490

Device	Routing	Invert	Outlet Devices
#1	Discarded	263.00'	2,410 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 253.00'
#2	Primary	263.00'	15.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 263.00' / 262.00' S= 0.0115' /' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#3	Primary	273.00'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64
#4	Device 2	268.70'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	267.00'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#6	Device 2	263.94'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.54 cfs @ 12.66 hrs HW=268.04' (Free Discharge)
1=Exfiltration (Controls 0.54 cfs)

Primary OutFlow Max=2.45 cfs @ 12.66 hrs HW=268.04' (Free Discharge)
2=Culvert (Passes 2.45 cfs of 9.80 cfs potential flow)

4=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

5=Orifice/Grate (Orifice Controls 0.60 cfs @ 4.39 fps)

6=Orifice/Grate (Orifice Controls 1.86 cfs @ 9.45 fps)

3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 6P: INFIL. BASIN #3

Inflow Area = 3,499 ac, 26.06% Impervious, Inflow Depth = 1.62" for 2-year event
Inflow = 6.48 cfs @ 12.09 hrs, Volume= 0.473 af
Outflow = 0.47 cfs @ 13.82 hrs, Volume= 0.473 af, Atten= 93%, Lag= 103.4 min
Discarded = 0.22 cfs @ 13.82 hrs, Volume= 0.386 af
Primary = 0.25 cfs @ 13.82 hrs, Volume= 0.087 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 315.52' @ 13.82 hrs Surf.Area= 4,599 sf Storage= 11,146 cf

Plug-Flow detention time= 526.4 min calculated for 0.473 af (100% of inflow)
Center-of-Mass det. time= 527.0 min (1,354.4 - 827.4)

Volume	Invert	Avail.Storage	Storage Description	Custom Stage Data (Irregular)	Listed below (Recalc)
#1	312.00'	41,148 cf			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
312.00	1,767	179.0	0	0	1,767
314.00	3,405	239.0	5,083	5,083	3,806
316.00	5,012	284.0	8,365	13,449	5,751
318.00	6,898	329.0	11,860	25,309	8,030
320.00	8,987	367.0	15,839	41,148	10,247

Device	Routing	Invert	Outlet Devices
#1	Discarded	312.00'	1,020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 310.00'
#2	Primary	312.00'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 312.00' / 310.00' S= 0.0333' /' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#3	Primary	319.50'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64
#4	Device 2	316.50'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	315.00'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.22 cfs @ 13.82 hrs HW=315.52' (Free Discharge)
1=Exfiltration (Controls 0.22 cfs)

Primary OutFlow Max=0.25 cfs @ 13.82 hrs HW=315.52' (Free Discharge)

2=Culvert (Passes 0.25 cfs of 5.19 cfs potential flow)

4=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)

5=Orifice/Grate (Orifice Controls 0.25 cfs @ 2.86 fps)

3=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond 7P: CB-103

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 0.69" for 2-year event
Inflow = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.17' @ 12.09 hrs
Flood Elev= 250.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.90'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 247.90' / 247.80' S= 0.0050' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.09 hrs HW=248.17' (Free Discharge)
1=Culvert (Barrel Controls 0.21 cfs @ 1.81 fps)

Summary for Pond 8P: CB-102

Inflow Area = 0.103 ac, 81.80% Impervious, Inflow Depth = 1.83" 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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.06' @ 12.09 hrs
Flood Elev= 249.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.80'	12.0" Round Culvert L= 17.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 246.80' / 246.50' S= 0.0176' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.09 hrs HW=247.05' (Free Discharge)
1=Culvert (Inlet Controls 0.21 cfs @ 1.35 fps)

Summary for Pond 9P: CB-106

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 0.90" for 2-year event
Inflow = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af
Outflow = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 258.87' @ 12.10 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 258.50' / 258.20' S= 0.0300' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.10 hrs HW=258.87' (Free Discharge)
1=Culvert (Inlet Controls 0.43 cfs @ 1.64 fps)

Summary for Pond 10P: CB-107

Inflow Area = 0.132 ac, 79.87% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.021 af
Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.021 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.00' @ 12.09 hrs
Flood Elev= 262.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.70'	12.0" Round Culvert L= 57.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 258.70' / 254.50' S= 0.0737' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=258.99' (Free Discharge)
1=Culvert (Inlet Controls 0.28 cfs @ 1.46 fps)

Summary for Pond 11P: DMH-101

Inflow Area = 0.369 ac, 44.88% Impervious, Inflow Depth = 1.00" for 2-year event
Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af
Outflow = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 246.77' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.40'	12.0" Round Culvert

L= 105.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 246.40' / 245.00' S= 0.0133 ' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.09 hrs HW=246.76' (Free Discharge)

1=Culvert (Inlet Controls 0.42 cfs @ 1.62 fps)

Summary for Pond 12P: DMH-102

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 0.69" for 2-year event
Inflow = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.21 cfs @ 12.09 hrs, Volume= 0.015 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.95' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.70'	12.0" Round Culvert

L= 113.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 247.70' / 246.90' S= 0.0071 ' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.09 hrs HW=247.95' (Free Discharge)

1=Culvert (Inlet Controls 0.21 cfs @ 1.34 fps)

Summary for Pond 13P: DMH-103

Inflow Area = 0.621 ac, 43.80% Impervious, Inflow Depth = 1.11" for 2-year event
Inflow = 0.72 cfs @ 12.10 hrs, Volume= 0.058 af
Outflow = 0.72 cfs @ 12.10 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.10 hrs, Volume= 0.058 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 254.49' @ 12.10 hrs
Flood Elev= 262.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	254.00'	12.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 254.00' / 253.00' S= 0.0130 ' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.71 cfs @ 12.10 hrs HW=254.49' (Free Discharge)

1=Culvert (Inlet Controls 0.71 cfs @ 1.88 fps)

Summary for Pond 14P: DMH-104

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 0.90" for 2-year event
Inflow = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af
Outflow = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.10 hrs, Volume= 0.037 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 258.47' @ 12.10 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.10'	12.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.10' / 255.80' S= 0.0253 ' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.10 hrs HW=258.47' (Free Discharge)

1=Culvert (Inlet Controls 0.43 cfs @ 1.64 fps)

Summary for Pond 15P: DMH-201

Inflow Area = 11.568 ac, 33.14% Impervious, Inflow Depth = 1.44" for 2-year event
Inflow = 17.04 cfs @ 12.10 hrs, Volume= 1.386 af
Outflow = 17.04 cfs @ 12.10 hrs, Volume= 1.386 af, Atten= 0%, Lag= 0.0 min
Primary = 17.04 cfs @ 12.10 hrs, Volume= 1.386 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 266.47' @ 12.10 hrs
Flood Elev= 275.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.60'	36.0" Round Culvert

L= 41.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 264.60' / 263.00' S= 0.0390 ' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=16.88 cfs @ 12.10 hrs HW=266.46' (Free Discharge)

1=Culvert (Inlet Controls 16.88 cfs @ 3.67 fps)

Summary for Pond 16P: DMH-202

Inflow Area = 3.827 ac, 47.80% Impervious, Inflow Depth = 1.95" for 2-year event
Inflow = 8.45 cfs @ 12.09 hrs, Volume= 0.622 af
Outflow = 8.45 cfs @ 12.09 hrs, Volume= 0.622 af, Atten= 0%, Lag= 0.0 min
Primary = 8.45 cfs @ 12.09 hrs, Volume= 0.622 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.42' @ 12.09 hrs
Flood Elev= 283.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.90'	

24.0" Round Culvert
L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.90' / 271.00' S= 0.0766' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=8.27 cfs @ 12.09 hrs HW=278.39' (Free Discharge)
1=Culvert (Inlet Controls 8.27 cfs @ 3.29 fps)

Summary for Pond 17P: FIELD INLET-201

Inflow Area = 0.250 ac, 16.19% Impervious, Inflow Depth = 1.26" for 2-year event
Inflow = 0.36 cfs @ 12.10 hrs, Volume= 0.026 af
Outflow = 0.36 cfs @ 12.10 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.10 hrs, Volume= 0.026 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.13' @ 12.10 hrs
Flood Elev= 282.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	

12.0" Round Culvert
L= 46.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 278.00' S= 0.0174' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.10 hrs HW=279.13' (Free Discharge)
1=Culvert (Inlet Controls 0.35 cfs @ 1.55 fps)

Summary for Pond 18P: CB-202

Inflow Area = 0.676 ac, 45.13% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.107 af
Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.107 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.65' @ 12.09 hrs
Flood Elev= 282.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.90'	

12.0" Round Culvert
L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.90' / 278.00' S= 0.0474' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=279.64' (Free Discharge)
1=Culvert (Inlet Controls 1.45 cfs @ 2.32 fps)

Summary for Pond 19P: CB-201

Inflow Area = 0.040 ac, 97.61% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af
Outflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.69' @ 12.09 hrs
Flood Elev= 282.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.50'	

12.0" Round Culvert
L= 43.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.50' / 278.00' S= 0.0116' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.11 cfs @ 12.09 hrs HW=278.68' (Free Discharge)
1=Culvert (Inlet Controls 0.11 cfs @ 1.15 fps)

Summary for Pond 20P: DMH-203

Inflow Area = 7.741 ac, 25.90% Impervious, Inflow Depth = 1.18" for 2-year event
Inflow = 8.76 cfs @ 12.12 hrs, Volume= 0.764 af
Outflow = 8.76 cfs @ 12.12 hrs, Volume= 0.764 af, Atten= 0%, Lag= 0.0 min
Primary = 8.76 cfs @ 12.12 hrs, Volume= 0.764 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 277.98' @ 12.12 hrs
Flood Elev= 283.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.60'	

30.0" Round Culvert
L= 70.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.60' / 270.50' S= 0.0871' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.52 cfs @ 12.12 hrs HW=277.96' (Free Discharge)
1=Culvert (Inlet Controls 8.52 cfs @ 3.13 fps)

Summary for Pond 21P: CB-204

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.15 cfs @ 12.09 hrs, Volume= 0.012 af
Outflow = 0.15 cfs @ 12.09 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.15 cfs @ 12.09 hrs, Volume= 0.012 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.31' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0550 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=280.31' (Free Discharge)

1=Culvert (Inlet Controls 0.15 cfs @ 1.23 fps)

Summary for Pond 22P: CB-205

Inflow Area = 0.310 ac, 28.18% Impervious, Inflow Depth = 0.98" for 2-year event
Inflow = 0.29 cfs @ 12.10 hrs, Volume= 0.025 af
Outflow = 0.29 cfs @ 12.10 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.10 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.40' @ 12.10 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 33.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0333 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=280.40' (Free Discharge)

1=Culvert (Inlet Controls 0.29 cfs @ 1.47 fps)

Summary for Pond 23P: DMH-204

Inflow Area = 7.380 ac, 25.29% Impervious, Inflow Depth = 1.18" for 2-year event
Inflow = 8.33 cfs @ 12.12 hrs, Volume= 0.726 af
Outflow = 8.33 cfs @ 12.12 hrs, Volume= 0.726 af, Atten= 0%, Lag= 0.0 min
Primary = 8.33 cfs @ 12.12 hrs, Volume= 0.726 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.86' @ 12.12 hrs
Flood Elev= 285.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.50'	30.0" Round Culvert

L= 192.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 277.50' / 276.70' S= 0.0042 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.10 cfs @ 12.12 hrs HW=278.84' (Free Discharge)

1=Culvert (Barrel Controls 8.10 cfs @ 4.41 fps)

Summary for Pond 24P: CB-206

Inflow Area = 0.633 ac, 31.21% Impervious, Inflow Depth = 1.03" for 2-year event
Inflow = 0.61 cfs @ 12.17 hrs, Volume= 0.054 af
Outflow = 0.61 cfs @ 12.17 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 12.17 hrs, Volume= 0.054 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.96' @ 12.17 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	24.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.59 cfs @ 12.17 hrs HW=281.95' (Free Discharge)

1=Culvert (Inlet Controls 0.59 cfs @ 1.59 fps)

Summary for Pond 25P: CB-207

Inflow Area = 0.068 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.84' @ 12.09 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=281.84' (Free Discharge)

1=Culvert (Inlet Controls 0.19 cfs @ 1.32 fps)

Summary for Pond 26P: DMH-205

Inflow Area = 6.679 ac, 23.97% Impervious, Inflow Depth = 1.18" for 2-year event
Inflow = 7.60 cfs @ 12.12 hrs, Volume= 0.656 af
Outflow = 7.60 cfs @ 12.12 hrs, Volume= 0.656 af, Atten= 0%, Lag= 0.0 min
Primary = 7.60 cfs @ 12.12 hrs, Volume= 0.656 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.52' @ 12.12 hrs
Flood Elev= 286.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.20'	30.0" Round Culvert

L= 151.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.20' / 277.60' S= 0.0040 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.38 cfs @ 12.12 hrs HW=279.50' (Free Discharge)

1=Culvert (Barrel Controls 7.38 cfs @ 4.18 fps)

Summary for Pond 27P: DMH-206

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 1.27" for 2-year event
Inflow = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af
Outflow = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af
Primary = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.24' @ 12.12 hrs
Flood Elev= 286.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	279.00'	30.0" Round Culvert

L= 168.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 279.00' / 278.30' S= 0.0042 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.79 cfs @ 12.12 hrs HW=280.22' (Free Discharge)

1=Culvert (Barrel Controls 6.79 cfs @ 4.19 fps)

Summary for Pond 28P: DMH-207

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 1.27" for 2-year event
Inflow = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af
Outflow = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af
Primary = 6.98 cfs @ 12.12 hrs, Volume= 0.596 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.41' @ 12.12 hrs
Flood Elev= 285.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.20'	30.0" Round Culvert

L= 268.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.20' / 279.10' S= 0.0041 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.80 cfs @ 12.12 hrs HW=281.39' (Free Discharge)

1=Culvert (Inlet Controls 6.80 cfs @ 2.94 fps)

Summary for Pond 29P: CB-208

Inflow Area = 0.147 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.43 cfs @ 12.09 hrs, Volume= 0.035 af
Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.035 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.57' @ 12.09 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	12.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.09 hrs HW=282.56' (Free Discharge)

1=Culvert (Inlet Controls 0.42 cfs @ 1.62 fps)

Summary for Pond 30P: CB-209

Inflow Area = 1.565 ac, 25.24% Impervious, Inflow Depth = 0.51" for 2-year event
Inflow = 0.48 cfs @ 12.17 hrs, Volume= 0.067 af
Outflow = 0.48 cfs @ 12.17 hrs, Volume= 0.067 af
Primary = 0.48 cfs @ 12.17 hrs, Volume= 0.067 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.56' @ 12.17 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	15.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.47 cfs @ 12.17 hrs HW=282.56' (Free Discharge)

1=Culvert (Inlet Controls 0.47 cfs @ 1.61 fps)

Summary for Pond 31P: DMH-208

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 1.52" for 2-year event
Inflow = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af
Outflow = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af
Primary = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 284.74' @ 12.12 hrs
Flood Elev= 289.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.50'	

24.0" Round Culvert
L= 165.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.50' / 280.70' S= 0.0170' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.97 cfs @ 12.12 hrs HW=284.72' (Free Discharge)
1=Culvert (Inlet Controls 5.97 cfs @ 2.97 fps)

Summary for Pond 32P: DMH-209

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 1.52" for 2-year event
Inflow = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af
Outflow = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af, Atten= 0%, Lag= 0.0 min
Primary = 6.13 cfs @ 12.12 hrs, Volume= 0.494 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 297.64' @ 12.12 hrs
Flood Elev= 301.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	296.40'	

24.0" Round Culvert
L= 150.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 296.40' / 283.60' S= 0.0853' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.97 cfs @ 12.12 hrs HW=297.62' (Free Discharge)
1=Culvert (Inlet Controls 5.97 cfs @ 2.97 fps)

Summary for Pond 33P: CB-210

Inflow Area = 0.067 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.24' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	

12.0" Round Culvert
L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=298.24' (Free Discharge)
1=Culvert (Inlet Controls 0.19 cfs @ 1.32 fps)

Summary for Pond 34P: CB-211

Inflow Area = 0.649 ac, 44.46% Impervious, Inflow Depth = 1.75" for 2-year event
Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.69' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	

12.0" Round Culvert
L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=298.69' (Free Discharge)
1=Culvert (Inlet Controls 1.28 cfs @ 2.23 fps)

Summary for Pond 35P: DMH-210

Inflow Area = 0.440 ac, 36.22% Impervious, Inflow Depth = 1.78" for 2-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.15' @ 12.09 hrs
Flood Elev= 320.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.60'	

12.0" Round Culvert
L= 322.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 315.60' / 297.40' S= 0.0565' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=316.14' (Free Discharge)
1=Culvert (Inlet Controls 0.87 cfs @ 1.98 fps)

Summary for Pond 36P: CB-212

Inflow Area = 0.038 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.11 cfs @ 12.09 hrs, Volume= 0.009 af
Outflow = 0.11 cfs @ 12.09 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.09 hrs, Volume= 0.009 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.18' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert

L= 13.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.11 cfs @ 12.09 hrs HW=316.18' (Free Discharge)
1=Culvert (Inlet Controls 0.11 cfs @ 1.14 fps)

Summary for Pond 37P: CB-213

Inflow Area = 0.401 ac, 30.12% Impervious, Inflow Depth = 1.67" for 2-year event
Inflow = 0.77 cfs @ 12.09 hrs, Volume= 0.056 af
Outflow = 0.77 cfs @ 12.09 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 0.77 cfs @ 12.09 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.51' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert

L= 13.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.76 cfs @ 12.09 hrs HW=316.50' (Free Discharge)
1=Culvert (Inlet Controls 0.76 cfs @ 1.91 fps)

Summary for Pond 38P: DMH-301

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af
Outflow = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af, Atten= 0%, Lag= 0.0 min
Primary = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.99' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.90'	18.0" Round Culvert

L= 71.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 315.90' / 312.00' S= 0.0549' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.79 cfs @ 12.09 hrs HW=316.98' (Free Discharge)
1=Culvert (Inlet Controls 3.79 cfs @ 2.79 fps)

Summary for Pond 39P: DMH-302

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af
Outflow = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af, Atten= 0%, Lag= 0.0 min
Primary = 3.87 cfs @ 12.09 hrs, Volume= 0.282 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.29' @ 12.09 hrs
Flood Elev= 324.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	319.20'	18.0" Round Culvert

L= 154.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 319.20' / 316.00' S= 0.0208' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.79 cfs @ 12.09 hrs HW=320.28' (Free Discharge)
1=Culvert (Inlet Controls 3.79 cfs @ 2.79 fps)

Summary for Pond 40P: CB-301

Inflow Area = 0.684 ac, 45.40% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.109 af
Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.109 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.76' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.46 cfs @ 12.09 hrs HW=320.75' (Free Discharge)
1=Culvert (Inlet Controls 1.46 cfs @ 2.32 fps)

Summary for Pond 41P: CB-302

Inflow Area = 0.363 ac, 36.80% Impervious, Inflow Depth = 1.83" for 2-year event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.055 af
Outflow = 0.76 cfs @ 12.09 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 0.76 cfs @ 12.09 hrs, Volume= 0.055 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.51' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=320.50' (Free Discharge)

└─1=Culvert (Inlet Controls 0.74 cfs @ 1.90 fps)

Summary for Pond 42P: DMH-303

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 1.96" for 2-year event
Inflow = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af
Outflow = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min
Primary = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 328.70' @ 12.09 hrs
Flood Elev= 332.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	327.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 327.90' / 319.70' S= 0.0636' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.58 cfs @ 12.09 hrs HW=328.69' (Free Discharge)

└─1=Culvert (Inlet Controls 1.58 cfs @ 2.39 fps)

Summary for Pond 43P: DMH-304

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 1.96" for 2-year event
Inflow = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af
Outflow = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min
Primary = 1.62 cfs @ 12.09 hrs, Volume= 0.118 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 336.70' @ 12.09 hrs
Flood Elev= 339.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	335.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 335.90' / 328.00' S= 0.0612' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.58 cfs @ 12.09 hrs HW=336.69' (Free Discharge)

└─1=Culvert (Inlet Controls 1.58 cfs @ 2.39 fps)

Summary for Pond 44P: CB-303

Inflow Area = 0.392 ac, 53.86% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 0.93 cfs @ 12.09 hrs, Volume= 0.068 af
Outflow = 0.93 cfs @ 12.09 hrs, Volume= 0.068 af, Atten= 0%, Lag= 0.0 min
Primary = 0.93 cfs @ 12.09 hrs, Volume= 0.068 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 336.97' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 17.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0235' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=336.96' (Free Discharge)

└─1=Culvert (Inlet Controls 0.90 cfs @ 2.01 fps)

Summary for Pond 45P: CB-304

Inflow Area = 0.330 ac, 38.23% Impervious, Inflow Depth = 1.83" for 2-year event
Inflow = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af
Outflow = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.69 cfs @ 12.09 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 336.88' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=336.87' (Free Discharge)

└─1=Culvert (Inlet Controls 0.68 cfs @ 1.85 fps)

Summary for Pond 46P: DMH-218

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af
Outflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 332.91' @ 12.09 hrs
Flood Elev= 336.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.10'	12.0" Round Culvert

L= 81.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.10' / 328.20' S= 0.0481' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.60 cfs @ 12.09 hrs HW=332.89' (Free Discharge)

1=Culvert (Inlet Controls 1.60 cfs @ 2.40 fps)

Summary for Pond 47P: CB-220

Inflow Area = 0.512 ac, 53.40% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 1.21 cfs @ 12.09 hrs, Volume= 0.089 af
Outflow = 1.21 cfs @ 12.09 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.09 hrs, Volume= 0.089 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.16' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 15.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0200' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.09 hrs HW=333.15' (Free Discharge)

1=Culvert (Inlet Controls 1.18 cfs @ 2.17 fps)

Summary for Pond 48P: CB-221

Inflow Area = 0.183 ac, 53.05% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.032 af
Outflow = 0.43 cfs @ 12.09 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.032 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 332.87' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 9.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0333' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.09 hrs HW=332.87' (Free Discharge)

1=Culvert (Inlet Controls 0.42 cfs @ 1.63 fps)

Summary for Pond 49P: DMH-217

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af
Outflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 328.91' @ 12.09 hrs
Flood Elev= 332.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	328.10'	12.0" Round Culvert

L= 147.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 328.10' / 321.30' S= 0.0463' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.60 cfs @ 12.09 hrs HW=328.89' (Free Discharge)

1=Culvert (Inlet Controls 1.60 cfs @ 2.40 fps)

Summary for Pond 50P: DMH-216

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 2.08" for 2-year event
Inflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af
Outflow = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 1.64 cfs @ 12.09 hrs, Volume= 0.120 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 322.01' @ 12.09 hrs
Flood Elev= 325.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	321.20'	12.0" Round Culvert

L= 118.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 321.20' / 318.10' S= 0.0263' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.60 cfs @ 12.09 hrs HW=321.99' (Free Discharge)

1=Culvert (Inlet Controls 1.60 cfs @ 2.40 fps)

Summary for Pond 52P: DMH-215

Inflow Area = 0.834 ac, 61.07% Impervious, Inflow Depth = 2.21" for 2-year event
Inflow = 2.05 cfs @ 12.09 hrs, Volume= 0.153 af
Outflow = 2.05 cfs @ 12.09 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 2.05 cfs @ 12.09 hrs, Volume= 0.153 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.71' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	317.90'	15.0" Round Culvert

L= 247.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 317.90' / 310.00' S= 0.0320' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.00 cfs @ 12.09 hrs HW=318.70' (Free Discharge)
↑-1=Culvert (Inlet Controls 2.00 cfs @ 2.41 fps)

Summary for Pond 53P: CB-219

Inflow Area = 0.069 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.65' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 21.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0143' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=318.64' (Free Discharge)
↑-1=Culvert (Inlet Controls 0.20 cfs @ 1.33 fps)

Summary for Pond 54P: CB-218

Inflow Area = 0.070 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af
Outflow = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.65' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0158' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=318.65' (Free Discharge)
↑-1=Culvert (Inlet Controls 0.20 cfs @ 1.33 fps)

Summary for Pond 55P: DMH-214

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 2.11" for 2-year event
Inflow = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af
Outflow = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af, Atten= 0%, Lag= 0.0 min
Primary = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 310.83' @ 12.09 hrs
Flood Elev= 315.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.80'	18.0" Round Culvert

L= 95.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 309.80' / 305.60' S= 0.0442' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.46 cfs @ 12.09 hrs HW=310.82' (Free Discharge)
↑-1=Culvert (Inlet Controls 3.46 cfs @ 2.71 fps)

Summary for Pond 56P: CB-217

Inflow Area = 0.062 ac, 100.00% Impervious, Inflow Depth = 2.87" for 2-year event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.43' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0150' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=312.43' (Free Discharge)
↑-1=Culvert (Inlet Controls 0.17 cfs @ 1.29 fps)

Summary for Pond 57P: CB-216

Inflow Area = 0.600 ac, 46.16% Impervious, Inflow Depth = 1.91" for 2-year event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.31 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.09 hrs, Volume= 0.095 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.90' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 11.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0273 ' / Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=312.89' (Free Discharge)
↑-1=Culvert (Inlet Controls 1.28 cfs @ 2.23 fps)

Summary for Pond 58P: DMH-213

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 2.11" for 2-year event
Inflow = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af
Outflow = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af, Atten= 0%, Lag= 0.0 min
Primary = 3.54 cfs @ 12.09 hrs, Volume= 0.263 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 306.53' @ 12.09 hrs
Flood Elev= 309.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.50'	18.0" Round Culvert

L= 226.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 305.50' / 290.20' S= 0.0677 ' / Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.46 cfs @ 12.09 hrs HW=306.52' (Free Discharge)
↑-1=Culvert (Inlet Controls 3.46 cfs @ 2.71 fps)

Summary for Pond 59P: DMH-212

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 2.01" for 2-year event
Inflow = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af
Outflow = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af, Atten= 0%, Lag= 0.0 min
Primary = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 290.99' @ 12.09 hrs
Flood Elev= 294.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	289.70'	24.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 289.70' / 284.00' S= 0.0626 ' / Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=290.97' (Free Discharge)
↑-1=Culvert (Inlet Controls 6.36 cfs @ 3.03 fps)

Summary for Pond 60P: CB-214

Inflow Area = 0.813 ac, 37.89% Impervious, Inflow Depth = 1.83" for 2-year event
Inflow = 1.70 cfs @ 12.09 hrs, Volume= 0.124 af
Outflow = 1.70 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 1.70 cfs @ 12.09 hrs, Volume= 0.124 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.33' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0300 ' / Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.67 cfs @ 12.09 hrs HW=291.32' (Free Discharge)
↑-1=Culvert (Inlet Controls 1.67 cfs @ 2.43 fps)

Summary for Pond 61P: CB-215

Inflow Area = 0.554 ac, 52.20% Impervious, Inflow Depth = 1.99" for 2-year event
Inflow = 1.26 cfs @ 12.09 hrs, Volume= 0.092 af
Outflow = 1.26 cfs @ 12.09 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min
Primary = 1.26 cfs @ 12.09 hrs, Volume= 0.092 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.18' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0158 ' / Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.23 cfs @ 12.09 hrs HW=291.17' (Free Discharge)
↑-1=Culvert (Inlet Controls 1.23 cfs @ 2.20 fps)

Summary for Pond 62P: DMH-211

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 2.01" for 2-year event
Inflow = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af
Outflow = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af, Atten= 0%, Lag= 0.0 min
Primary = 6.50 cfs @ 12.09 hrs, Volume= 0.479 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 285.19' @ 12.09 hrs
Flood Elev= 288.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.90'	

24.0" Round Culvert
L= 144.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.90' / 277.00' S= 0.0479 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=285.17' (Free Discharge)
1=Culvert (Inlet Controls 6.36 cfs @ 3.03 fps)

Summary for Pond 63P: FIELD INLET-202

Inflow Area = 2.746 ac, 10.00% Impervious, Inflow Depth = 1.39" for 2-year event
Inflow = 3.90 cfs @ 12.14 hrs, Volume= 0.318 af
Outflow = 3.90 cfs @ 12.14 hrs, Volume= 0.318 af, Atten= 0%, Lag= 0.0 min
Primary = 3.90 cfs @ 12.14 hrs, Volume= 0.318 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 301.76' @ 12.14 hrs
Flood Elev= 304.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	300.80'	

24.0" Round Culvert
L= 137.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 300.80' / 297.70' S= 0.0226 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.83 cfs @ 12.14 hrs HW=301.75' (Free Discharge)
1=Culvert (Inlet Controls 3.83 cfs @ 2.62 fps)

Summary for Pond 66P: CB-222

Inflow Area = 1.065 ac, 25.32% Impervious, Inflow Depth = 0.68" for 2-year event
Inflow = 0.64 cfs @ 12.15 hrs, Volume= 0.060 af
Outflow = 0.64 cfs @ 12.15 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.15 hrs, Volume= 0.060 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.86' @ 12.15 hrs
Flood Elev= 286.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.40'	

12.0" Round Culvert
L= 29.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.40' / 281.80' S= 0.0207 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.64 cfs @ 12.15 hrs HW=282.86' (Free Discharge)
1=Culvert (Inlet Controls 0.64 cfs @ 1.82 fps)

Summary for Pond 71P: FIELD INLET-203

Inflow Area = 3.312 ac, 0.00% Impervious, Inflow Depth = 0.44" for 2-year event
Inflow = 0.93 cfs @ 12.19 hrs, Volume= 0.121 af
Outflow = 0.93 cfs @ 12.19 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.0 min
Primary = 0.93 cfs @ 12.19 hrs, Volume= 0.121 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.29' @ 12.19 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	

18.0" Round Culvert
L= 28.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0821 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.93 cfs @ 12.19 hrs HW=279.29' (Free Discharge)
1=Culvert (Inlet Controls 0.93 cfs @ 1.87 fps)

Summary for Pond 72P: FIELD INLET-204

Inflow Area = 1.632 ac, 0.00% Impervious, Inflow Depth = 0.09" for 2-year event
Inflow = 0.02 cfs @ 13.80 hrs, Volume= 0.012 af
Outflow = 0.02 cfs @ 13.80 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.02 cfs @ 13.80 hrs, Volume= 0.012 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.87' @ 13.80 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	

18.0" Round Culvert
L= 50.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0460 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.02 cfs @ 13.80 hrs HW=278.87' (Free Discharge)
1=Culvert (Inlet Controls 0.02 cfs @ 0.69 fps)

Summary for Pond 73P: DMH-219

Inflow Area = 4.944 ac, 0.00% Impervious, Inflow Depth = 0.32" for 2-year event
Inflow = 0.93 cfs @ 12.19 hrs, Volume= 0.133 af
Outflow = 0.93 cfs @ 12.19 hrs, Volume= 0.133 af, Atten= 0%, Lag= 0.0 min
Primary = 0.93 cfs @ 12.19 hrs, Volume= 0.133 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 276.49' @ 12.19 hrs
Flood Elev= 284.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.00'	18.0" Round Culvert

L= 86.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.00' / 272.00' S= 0.0465' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.93 cfs @ 12.19 hrs HW=276.49' (Free Discharge)
1=Culvert (Inlet Controls 0.93 cfs @ 1.87 fps)

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 45.512 ac, 12.17% Impervious, Inflow Depth = 0.33" for 2-year event
Inflow = 3.14 cfs @ 12.49 hrs, Volume= 1.262 af
Primary = 3.14 cfs @ 12.49 hrs, Volume= 1.262 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 20.745 ac, 1.38% Impervious, Inflow Depth = 0.11" for 2-year event
Inflow = 0.54 cfs @ 12.40 hrs, Volume= 0.187 af
Primary = 0.54 cfs @ 12.40 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: POST 1
Runoff Area=4,483 sf 81.80% Impervious Runoff Depth=3.19"
Tc=6.0 min CN=87 Runoff=0.37 cfs 0.027 af

Subcatchment2S: POST 2
Runoff Area=4,363 sf 81.46% Impervious Runoff Depth=3.19"
Tc=6.0 min CN=87 Runoff=0.36 cfs 0.027 af

Subcatchment3S: POST 3
Runoff Area=5,733 sf 79.87% Impervious Runoff Depth=3.29"
Tc=6.0 min CN=88 Runoff=0.49 cfs 0.036 af

Subcatchment4S: POST 4
Runoff Area=6,696 sf 82.11% Impervious Runoff Depth=3.39"
Tc=6.0 min CN=89 Runoff=0.58 cfs 0.043 af

Subcatchment5S: POST 5
Runoff Area=1,758 sf 97.61% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment6S: POST 6
Runoff Area=2,283 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment7S: POST 7
Runoff Area=2,223 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.22 cfs 0.019 af

Subcatchment8S: POST 8
Runoff Area=2,941 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.30 cfs 0.025 af

Subcatchment9S: POST 9
Runoff Area=27,588 sf 31.21% Impervious Runoff Depth=2.13"
Tc=11.0 min CN=75 Runoff=1.32 cfs 0.112 af

Subcatchment10S: POST 10

Runoff Area=65,188 sf 21.80% Impervious Runoff Depth=1.14"
Flow Length=718' Tc=10.2 min CN=61 Runoff=1.50 cfs 0.142 af

Subcatchment11S: POST 11

Runoff Area=3,352 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.34 cfs 0.028 af

Subcatchment13S: POST 13

Runoff Area=3,056 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.31 cfs 0.026 af

Subcatchment14S: POST 14

Runoff Area=2,995 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.30 cfs 0.025 af

Subcatchment15S: POST 15

Runoff Area=28,290 sf 44.46% Impervious Runoff Depth=3.10"
Tc=6.0 min CN=86 Runoff=2.28 cfs 0.168 af

Subcatchment16S: POST 16

Runoff Area=2,911 sf 100.00% Impervious Runoff Depth=4.36"
Tc=6.0 min CN=98 Runoff=0.29 cfs 0.024 af

Subcatchment18S: POST 18

Runoff Area=17,479 sf 30.12% Impervious Runoff Depth=3.00"
Tc=6.0 min CN=85 Runoff=1.37 cfs 0.100 af

Subcatchment19S: POST 19	Runoff Area=1,672 sf Tc=6.0 min CN=98 Runoff=0.17 cfs 0.014 af
Subcatchment20S: POST 20	Runoff Area=15,797 sf Tc=6.0 min CN=87 Runoff=1.31 cfs 0.096 af
Subcatchment21S: POST 21	Runoff Area=29,809 sf Tc=6.0 min CN=88 Runoff=2.53 cfs 0.188 af
Subcatchment22S: POST 22	Runoff Area=75,352 sf Tc=6.0 min CN=80 Runoff=5.06 cfs 0.367 af
Subcatchment23S: POST 23	Runoff Area=17,079 sf Tc=6.0 min CN=90 Runoff=1.52 cfs 0.114 af
Subcatchment24S: POST 24	Runoff Area=14,367 sf Tc=6.0 min CN=87 Runoff=1.19 cfs 0.088 af
Subcatchment25S: POST 25	Runoff Area=22,287 sf Tc=6.0 min CN=90 Runoff=1.99 cfs 0.149 af
Subcatchment26S: POST 26	Runoff Area=7,993 sf Tc=6.0 min CN=90 Runoff=0.71 cfs 0.053 af
Subcatchment27S: POST 27	Runoff Area=3,003 sf Tc=6.0 min CN=98 Runoff=0.30 cfs 0.025 af
Subcatchment28S: POST 28	Runoff Area=3,037 sf Tc=6.0 min CN=98 Runoff=0.31 cfs 0.025 af
Subcatchment29S: POST 29	Runoff Area=2,681 sf Tc=6.0 min CN=98 Runoff=0.27 cfs 0.022 af
Subcatchment30S: POST 30	Runoff Area=26,119 sf Tc=6.0 min CN=88 Runoff=2.22 cfs 0.164 af
Subcatchment31S: POST 31	Runoff Area=24,121 sf Tc=6.0 min CN=89 Runoff=2.10 cfs 0.156 af
Subcatchment32S: POST 32	Runoff Area=35,399 sf Tc=6.0 min CN=87 Runoff=2.93 cfs 0.216 af
Subcatchment33S: POST 33	Runoff Area=12,676 sf Tc=6.0 min CN=93 Runoff=1.20 cfs 0.092 af
Subcatchment34S: POST 34	Runoff Area=29,453 sf Tc=6.0 min CN=88 Runoff=2.50 cfs 0.185 af
Subcatchment35S: POST 35	Runoff Area=14,637 sf Tc=6.0 min CN=61 Runoff=0.39 cfs 0.032 af

Subcatchment36S: POST 36	Runoff Area=7,243 sf Tc=6.0 min CN=39 Runoff=0.00 cfs 0.002 af
Subcatchment37S: POST 37	Runoff Area=13,313 sf Tc=6.0 min CN=48 Runoff=0.06 cfs 0.011 af
Subcatchment38S: POST 38	Runoff Area=12,792 sf Tc=6.0 min CN=43 Runoff=0.02 cfs 0.006 af
Subcatchment39S: POST 39	Runoff Area=10,871 sf Tc=6.0 min UI Adjusted CN=79 Runoff=0.71 cfs 0.051 af
Subcatchment40S: POST 40	Runoff Area=11,225 sf Tc=6.0 min UI Adjusted CN=66 Runoff=0.41 cfs 0.031 af
Subcatchment42S: POST 42	Runoff Area=119,594 sf Flow Length=598' Tc=9.3 min CN=81 Runoff=7.45 cfs 0.603 af
Subcatchment43S: POST 43	Runoff Area=1,028,921 sf Flow Length=497' Tc=11.3 min CN=46 Runoff=3.37 cfs 0.714 af
Subcatchment44S: POST 44	Runoff Area=445,393 sf Tc=6.0 min CN=53 Runoff=5.39 cfs 0.582 af
Subcatchment46S: POST 45	Runoff Area=458,256 sf Tc=10.1 min CN=46 Runoff=1.52 cfs 0.318 af
Subcatchment65S: POST 12	Runoff Area=46,393 sf Flow Length=529' Tc=8.6 min CN=68 Runoff=1.71 cfs 0.142 af
Subcatchment69S: POST 41	Runoff Area=144,249 sf Flow Length=555' Tc=9.6 min CN=62 Runoff=3.63 cfs 0.331 af
Subcatchment70S: POST 17	Runoff Area=71,092 sf Tc=6.0 min CN=49 Runoff=0.43 cfs 0.067 af
Pond 1P: INFIL. BASIN #1	Peak Elev=247.79' Discarded=0.08 cfs 0.067 af Primary=0.00 cfs 0.000 af Storage=1,265 cf Inflow=0.78 cfs 0.067 af Outflow=0.08 cfs 0.067 af
Pond 2P: INFILTRATION BASIN #1-A	Peak Elev=253.66' Discarded=0.17 cfs 0.117 af Primary=0.00 cfs 0.000 af Storage=1,753 cf Inflow=1.45 cfs 0.117 af Outflow=0.17 cfs 0.117 af
Pond 3P: INFIL. BASIN #2	Peak Elev=269.68' Discarded=0.69 cfs 0.605 af Primary=11.48 cfs 2.027 af Storage=38,794 cf Inflow=32.69 cfs 2.633 af Outflow=12.17 cfs 2.633 af
Pond 6P: INFIL. BASIN #3	Peak Elev=316.65' Discarded=0.29 cfs 0.467 af Primary=3.71 cfs 0.386 af Storage=16,916 cf Inflow=11.62 cfs 0.853 af Outflow=4.00 cfs 0.853 af
Pond 7P: CB-103	Peak Elev=248.27' 12.0" Round Culvert n=0.012 L=20.0' S=0.0050 /' Inflow=0.36 cfs 0.028 af Outflow=0.36 cfs 0.028 af

Pond 8P: CB-102	12.0" Round Culvert n=0.012 L=17.0' S=0.0176 '/' Outflow=0.37 cfs 0.027 af Peak Elev=247.14' Inflow=0.37 cfs 0.027 af
Pond 9P: CB-106	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Outflow=0.97 cfs 0.075 af Peak Elev=259.08' Inflow=0.97 cfs 0.075 af
Pond 10P: CB-107	12.0" Round Culvert n=0.012 L=57.0' S=0.0737 '/' Outflow=0.49 cfs 0.036 af Peak Elev=259.09' Inflow=0.49 cfs 0.036 af
Pond 11P: DMH-101	12.0" Round Culvert n=0.012 L=105.0' S=0.0133 '/' Outflow=0.73 cfs 0.056 af Peak Elev=246.89' Inflow=0.73 cfs 0.056 af
Pond 12P: DMH-102	12.0" Round Culvert n=0.012 L=113.0' S=0.0071 '/' Outflow=0.36 cfs 0.028 af Peak Elev=248.04' Inflow=0.36 cfs 0.028 af
Pond 13P: DMH-103	12.0" Round Culvert n=0.012 L=77.0' S=0.0130 '/' Outflow=1.45 cfs 0.111 af Peak Elev=254.74' Inflow=1.45 cfs 0.111 af
Pond 14P: DMH-104	12.0" Round Culvert n=0.012 L=91.0' S=0.0253 '/' Outflow=0.97 cfs 0.075 af Peak Elev=258.68' Inflow=0.97 cfs 0.075 af
Pond 15P: DMH-201	36.0" Round Culvert n=0.012 L=41.0' S=0.0390 '/' Outflow=31.51 cfs 2.540 af Peak Elev=267.45' Inflow=31.51 cfs 2.540 af
Pond 16P: DMH-202	24.0" Round Culvert n=0.012 L=77.0' S=0.0766 '/' Outflow=14.22 cfs 1.063 af Peak Elev=279.32' Inflow=14.22 cfs 1.063 af
Pond 17P: FIELD INLET-201	12.0" Round Culvert n=0.012 L=46.0' S=0.0174 '/' Outflow=0.71 cfs 0.051 af Peak Elev=279.28' Inflow=0.71 cfs 0.051 af
Pond 18P: CB-202	12.0" Round Culvert n=0.012 L=19.0' S=0.0474 '/' Outflow=2.50 cfs 0.185 af Peak Elev=280.10' Inflow=2.50 cfs 0.185 af
Pond 19P: CB-201	12.0" Round Culvert n=0.012 L=43.0' S=0.0116 '/' Outflow=0.18 cfs 0.015 af Peak Elev=278.73' Inflow=0.18 cfs 0.015 af
Pond 20P: DMH-203	30.0" Round Culvert n=0.012 L=70.0' S=0.0871 '/' Outflow=17.63 cfs 1.477 af Peak Elev=278.74' Inflow=17.63 cfs 1.477 af
Pond 21P: CB-204	12.0" Round Culvert n=0.012 L=20.0' S=0.0550 '/' Outflow=0.22 cfs 0.019 af Peak Elev=280.36' Inflow=0.22 cfs 0.019 af
Pond 22P: CB-205	12.0" Round Culvert n=0.012 L=33.0' S=0.0333 '/' Outflow=0.64 cfs 0.050 af Peak Elev=280.56' Inflow=0.64 cfs 0.050 af
Pond 23P: DMH-204	30.0" Round Culvert n=0.012 L=192.0' S=0.0042 '/' Outflow=16.80 cfs 1.408 af Peak Elev=279.59' Inflow=16.80 cfs 1.408 af
Pond 24P: CB-206	24.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=1.32 cfs 0.112 af Peak Elev=282.13' Inflow=1.32 cfs 0.112 af

Pond 25P: CB-207	12.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=0.30 cfs 0.025 af Peak Elev=281.90' Inflow=0.30 cfs 0.025 af
Pond 26P: DMH-205	30.0" Round Culvert n=0.012 L=151.0' S=0.0040 '/' Outflow=15.29 cfs 1.271 af Peak Elev=280.22' Inflow=15.29 cfs 1.271 af
Pond 27P: DMH-206	30.0" Round Culvert n=0.012 L=168.0' S=0.0042 '/' Outflow=13.59 cfs 1.129 af Peak Elev=280.84' Inflow=13.59 cfs 1.129 af
Pond 28P: DMH-207	30.0" Round Culvert n=0.012 L=268.0' S=0.0041 '/' Outflow=13.59 cfs 1.129 af Peak Elev=282.00' Inflow=13.59 cfs 1.129 af
Pond 29P: CB-208	12.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=0.65 cfs 0.053 af Peak Elev=282.66' Inflow=0.65 cfs 0.053 af
Pond 30P: CB-209	15.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=1.73 cfs 0.167 af Peak Elev=282.93' Inflow=1.73 cfs 0.167 af
Pond 31P: DMH-208	24.0" Round Culvert n=0.012 L=165.0' S=0.0170 '/' Outflow=11.34 cfs 0.909 af Peak Elev=285.38' Inflow=11.34 cfs 0.909 af
Pond 32P: DMH-209	24.0" Round Culvert n=0.012 L=150.0' S=0.0853 '/' Outflow=11.34 cfs 0.909 af Peak Elev=298.28' Inflow=11.34 cfs 0.909 af
Pond 33P: CB-210	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=0.29 cfs 0.024 af Peak Elev=298.30' Inflow=0.29 cfs 0.024 af
Pond 34P: CB-211	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=2.28 cfs 0.188 af Peak Elev=299.08' Inflow=2.28 cfs 0.188 af
Pond 35P: DMH-210	12.0" Round Culvert n=0.012 L=322.0' S=0.0565 '/' Outflow=1.54 cfs 0.114 af Peak Elev=316.37' Inflow=1.54 cfs 0.114 af
Pond 36P: CB-212	12.0" Round Culvert n=0.012 L=13.0' S=0.0231 '/' Outflow=0.17 cfs 0.014 af Peak Elev=316.22' Inflow=0.17 cfs 0.014 af
Pond 37P: CB-213	12.0" Round Culvert n=0.012 L=13.0' S=0.0231 '/' Outflow=1.37 cfs 0.100 af Peak Elev=316.72' Inflow=1.37 cfs 0.100 af
Pond 38P: DMH-301	18.0" Round Culvert n=0.012 L=71.0' S=0.0549 '/' Outflow=6.56 cfs 0.486 af Peak Elev=317.60' Inflow=6.56 cfs 0.486 af
Pond 39P: DMH-302	18.0" Round Culvert n=0.012 L=154.0' S=0.0208 '/' Outflow=6.56 cfs 0.486 af Peak Elev=320.90' Inflow=6.56 cfs 0.486 af
Pond 40P: CB-301	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=2.53 cfs 0.188 af Peak Elev=321.22' Inflow=2.53 cfs 0.188 af
Pond 41P: CB-302	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=1.31 cfs 0.096 af Peak Elev=320.70' Inflow=1.31 cfs 0.096 af

Pond 42P: DMH-303	12.0" Round Culvert n=0.012 L=129.0' S=0.0636 '/' Inflow=2.71 cfs 0.202 af Peak Elev=329.22' Outflow=2.71 cfs 0.202 af
Pond 43P: DMH-304	12.0" Round Culvert n=0.012 L=129.0' S=0.0612 '/' Inflow=2.71 cfs 0.202 af Peak Elev=337.22' Outflow=2.71 cfs 0.202 af
Pond 44P: CB-303	12.0" Round Culvert n=0.012 L=17.0' S=0.0235 '/' Inflow=1.52 cfs 0.114 af Peak Elev=337.17' Outflow=1.52 cfs 0.114 af
Pond 45P: CB-304	12.0" Round Culvert n=0.012 L=16.0' S=0.0250 '/' Inflow=1.19 cfs 0.088 af Peak Elev=337.06' Outflow=1.19 cfs 0.088 af
Pond 46P: DMH-218	12.0" Round Culvert n=0.012 L=81.0' S=0.0481 '/' Inflow=2.70 cfs 0.202 af Peak Elev=333.41' Outflow=2.70 cfs 0.202 af
Pond 47P: CB-220	12.0" Round Culvert n=0.012 L=15.0' S=0.0200 '/' Inflow=1.99 cfs 0.149 af Peak Elev=333.43' Outflow=1.99 cfs 0.149 af
Pond 48P: CB-221	12.0" Round Culvert n=0.012 L=9.0' S=0.0333 '/' Inflow=0.71 cfs 0.053 af Peak Elev=332.99' Outflow=0.71 cfs 0.053 af
Pond 49P: DMH-217	12.0" Round Culvert n=0.012 L=147.0' S=0.0463 '/' Inflow=2.70 cfs 0.202 af Peak Elev=329.41' Outflow=2.70 cfs 0.202 af
Pond 50P: DMH-216	12.0" Round Culvert n=0.012 L=118.0' S=0.0263 '/' Inflow=2.70 cfs 0.202 af Peak Elev=322.51' Outflow=2.70 cfs 0.202 af
Pond 52P: DMH-215	15.0" Round Culvert n=0.012 L=247.0' S=0.0320 '/' Inflow=3.31 cfs 0.253 af Peak Elev=319.02' Outflow=3.31 cfs 0.253 af
Pond 53P: CB-219	12.0" Round Culvert n=0.012 L=21.0' S=0.0143 '/' Inflow=0.30 cfs 0.025 af Peak Elev=318.71' Outflow=0.30 cfs 0.025 af
Pond 54P: CB-218	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Inflow=0.31 cfs 0.025 af Peak Elev=318.71' Outflow=0.31 cfs 0.025 af
Pond 55P: DMH-214	18.0" Round Culvert n=0.012 L=95.0' S=0.0442 '/' Inflow=5.80 cfs 0.439 af Peak Elev=311.28' Outflow=5.80 cfs 0.439 af
Pond 56P: CB-217	12.0" Round Culvert n=0.012 L=20.0' S=0.0150 '/' Inflow=0.27 cfs 0.022 af Peak Elev=312.49' Outflow=0.27 cfs 0.022 af
Pond 57P: CB-216	12.0" Round Culvert n=0.012 L=11.0' S=0.0273 '/' Inflow=2.22 cfs 0.164 af Peak Elev=313.25' Outflow=2.22 cfs 0.164 af
Pond 58P: DMH-213	18.0" Round Culvert n=0.012 L=226.0' S=0.0677 '/' Inflow=5.80 cfs 0.439 af Peak Elev=306.98' Outflow=5.80 cfs 0.439 af
Pond 59P: DMH-212	24.0" Round Culvert n=0.012 L=91.0' S=0.0626 '/' Inflow=10.83 cfs 0.812 af Peak Elev=291.51' Outflow=10.83 cfs 0.812 af

Pond 60P: CB-214	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Inflow=2.93 cfs 0.216 af Peak Elev=291.96' Outflow=2.93 cfs 0.216 af
Pond 61P: CB-215	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Inflow=2.10 cfs 0.156 af Peak Elev=291.49' Outflow=2.10 cfs 0.156 af
Pond 62P: DMH-211	24.0" Round Culvert n=0.012 L=144.0' S=0.0479 '/' Inflow=10.83 cfs 0.812 af Peak Elev=285.71' Outflow=10.83 cfs 0.812 af
Pond 63P: FIELD INLET-202	24.0" Round Culvert n=0.012 L=137.0' S=0.0226 '/' Inflow=7.45 cfs 0.603 af Peak Elev=302.20' Outflow=7.45 cfs 0.603 af
Pond 66P: CB-222	12.0" Round Culvert n=0.012 L=29.0' S=0.0207 '/' Inflow=1.71 cfs 0.142 af Peak Elev=283.23' Outflow=1.71 cfs 0.142 af
Pond 71P: FIELD INLET-203	18.0" Round Culvert n=0.012 L=28.0' S=0.0821 '/' Inflow=3.63 cfs 0.331 af Peak Elev=279.85' Outflow=3.63 cfs 0.331 af
Pond 72P: FIELD INLET-204	18.0" Round Culvert n=0.012 L=50.0' S=0.0460 '/' Inflow=0.43 cfs 0.067 af Peak Elev=279.12' Outflow=0.43 cfs 0.067 af
Pond 73P: DMH-219	18.0" Round Culvert n=0.012 L=86.0' S=0.0465 '/' Inflow=4.06 cfs 0.397 af Peak Elev=277.13' Outflow=4.06 cfs 0.397 af
Link DP-A: DESIGN POINT-A	Inflow=20.98 cfs 3.525 af Primary=20.98 cfs 3.525 af
Link DP-B: DESIGN POINT-B	Inflow=5.61 cfs 0.900 af Primary=5.61 cfs 0.900 af

Total Runoff Area = 66.257 ac Runoff Volume = 5.681 af Average Runoff Depth = 1.03"
91.21% Pervious = 60.432 ac 8.79% Impervious = 5.825 ac

Summary for Subcatchment 1S: POST 1

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 0.027 af, Depth= 3.19"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,667	98	Paved parking, HSG A			
816	39	>75% Grass cover, Good, HSG A			
4,483	87	Weighted Average			
816		18.20% Pervious Area			
3,667		81.80% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: POST 2

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.027 af, Depth= 3.19"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,554	98	Paved parking, HSG A			
809	39	>75% Grass cover, Good, HSG A			
4,363	87	Weighted Average			
809		18.54% Pervious Area			
3,554		81.46% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: POST 3

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 0.036 af, Depth= 3.29"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,947	98	Paved parking, HSG A			
908	39	>75% Grass cover, Good, HSG A			
632	98	Paved parking, HSG D			
246	80	>75% Grass cover, Good, HSG D			
5,733	88	Weighted Average			
1,154		20.13% Pervious Area			
4,579		79.87% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 4S: POST 4

Summary for Subcatchment 4S: POST 4

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 0.043 af, Depth= 3.39"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,254	98	Paved parking, HSG A			
879	39	>75% Grass cover, Good, HSG A			
2,244	98	Paved parking, HSG D			
319	80	>75% Grass cover, Good, HSG D			
6,696	89	Weighted Average			
1,198		17.89% Pervious Area			
5,498		82.11% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 5S: POST 5

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth= 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
509	98	Paved parking, HSG A
1,207	98	Paved parking, HSG D
42	80	>75% Grass cover, Good, HSG D
1,758	98	Weighted Average
42		2.39% Pervious Area
1,716		97.61% Impervious Area

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Type III 24-hr 10-year Rainfall=4.60"
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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: POST 6

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
2,283	98	Paved parking, HSG A			
2,283		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: POST 7

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 0.019 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
2,223	98	Paved parking, HSG A			
2,223		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: POST 8

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,941	98	Paved parking, HSG A
2,941		100.00% Impervious Area

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Type III 24-hr 10-year Rainfall=4.60"
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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: POST 9

Runoff = 1.32 cfs @ 12.16 hrs, Volume= 0.112 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
2,700	98	Roofs, HSG D			
12,013	80	>75% Grass cover, Good, HSG D			
2,271	98	Roofs, HSG A			
3,638	98	Paved parking, HSG A			
6,966	39	>75% Grass cover, Good, HSG A			
27,588	75	Weighted Average			
18,979		68.79% Pervious Area			
8,609		31.21% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0					Direct Entry,

Summary for Subcatchment 10S: POST 10

Runoff = 1.50 cfs @ 12.16 hrs, Volume= 0.142 af, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,999	98	Roofs, HSG D
1,658	98	Paved parking, HSG D
413	98	Unconnected pavement, HSG D
16,156	80	>75% Grass cover, Good, HSG D
4,870	98	Roofs, HSG A
3,489	98	Paved parking, HSG A
784	98	Unconnected pavement, HSG A
28,504	39	>75% Grass cover, Good, HSG A
6,315	30	Woods, Good, HSG A
65,188	61	Weighted Average
50,975		78.20% Pervious Area
14,213		21.80% Impervious Area
1,197		8.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.6	205	0.0900	2.10		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	53	0.0700	1.32		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.8	152	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.4	258	0.0080	1.82		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.2	718	Total			

Summary for Subcatchment 11S: POST 11

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 0.028 af, Depth= 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,352	98	Paved parking, HSG A			
3,352		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: POST 13

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 0.026 af, Depth= 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
3,056	98	Paved parking, HSG A			
3,056		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: POST 14

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af, Depth= 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
2,995	98	Paved parking, HSG A			
2,995		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 15S: POST 15

Runoff = 0.228 cfs @ 12.09 hrs, Volume= 0.168 af, Depth= 3.10"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,736	98	Roofs, HSG D
7,798	98	Paved parking, HSG D
709	98	Unconnected pavement, HSG D
14,515	80	>75% Grass cover, Good, HSG D
1,051	98	Paved parking, HSG A
285	98	Unconnected pavement, HSG A
1,196	39	>75% Grass cover, Good, HSG A
28,290	86	Weighted Average
15,711		55.54% Pervious Area
12,579		44.46% Impervious Area
994		7.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 16S: POST 16

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af, Depth= 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
921	98	Paved parking, HSG A			
1,990	98	Paved parking, HSG D			
2,911	98	Weighted Average			
2,911		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 18S: POST 18

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 0.100 af, Depth= 3.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
1,536	98	Roofs, HSG D			
3,103	98	Paved parking, HSG D			
626	98	Unconnected pavement, HSG D			
12,214	80	>75% Grass cover, Good, HSG D			
17,479	85	Weighted Average			
12,214		69.88% Pervious Area			
5,265		30.12% Impervious Area			
626		11.89% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 19S: POST 19

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
1,672	98	Paved parking, HSG D			
1,672		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 20S: POST 20

Runoff	=	1.31 cfs @	12.09 hrs,	Volume=	0.096 af,	Depth=	3.19"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
836	98	Roofs, HSG D
3,970	98	Paved parking, HSG D
1,008	98	Unconnected roofs, HSG D
9,983	80	>75% Grass cover, Good, HSG D

Summary for Subcatchment 21S: POST 21

Runoff = 2.53 cfs @ 12.09 hrs, Volume= 0.188 af, Depth= 3.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description			
4,656	98	Roofs, HSG D			
8,878	98	Paved parking, HSG D			
16,275	80	>75% Grass cover, Good, HSG D			
29,809	88	Weighted Average			
16,275		54.60% Pervious Area			
13,534		45.40% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 22S: POST 22

Runoff = 5.06 cfs @ 12.09 hrs, Volume= 0.367 af, Depth= 2.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
5,682	98	Roofs, HSG D
47,489	80	>75% Grass cover, Good, HSG D
20,927	77	Woods, Good, HSG D
1,254	30	Woods, Good, HSG A
75,352	80	Weighted Average
69,670		92.46% Pervious Area
5,682		7.54% Impervious Area
Tc Length Slope Velocity Capacity Description		
(min)	(feet)	(ft/ft) (ft/sec) (cfs)
6.0		
Direct Entry,		

Summary for Subcatchment 23S: POST 23

Runoff = 1.52 cfs @ 12.09 hrs, Volume= 0.114 af, Depth= 3.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,928	98	Roofs, HSG D
6,271	98	Paved parking, HSG D
7,880	80	>75% Grass cover, Good, HSG D
17,079	90	Weighted Average
7,880		46.14% Pervious Area
9,199		53.86% Impervious Area
Tc Length Slope Velocity Capacity Description		
(min)	(feet)	(ft/ft) (ft/sec) (cfs)
6.0		
Direct Entry,		

Summary for Subcatchment 24S: POST 24

Runoff = 1.19 cfs @ 12.09 hrs, Volume= 0.088 af, Depth= 3.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
1,299	98	Roofs, HSG D
3,427	98	Paved parking, HSG D
767	98	Unconnected pavement, HSG D
8,874	80	>75% Grass cover, Good, HSG D
14,367	87	Weighted Average
8,874		61.77% Pervious Area
5,493		38.23% Impervious Area
767		13.96% Unconnected

Tc Length Slope Velocity Capacity Description
(min) (feet) (ft/ft) (ft/sec) (cfs)
6.0
Direct Entry,

Summary for Subcatchment 25S: POST 25

Runoff = 1.99 cfs @ 12.09 hrs, Volume= 0.149 af, Depth= 3.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,925	98	Roofs, HSG D
8,071	98	Paved parking, HSG D
905	98	Unconnected pavement, HSG D
10,386	80	>75% Grass cover, Good, HSG D
22,287	90	Weighted Average
10,386		46.60% Pervious Area
11,901		53.40% Impervious Area
905		7.60% Unconnected
Tc Length Slope Velocity Capacity Description		
(min)	(feet)	(ft/ft) (ft/sec) (cfs)
6.0		
Direct Entry,		

Summary for Subcatchment 26S: POST 26

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.053 af, Depth= 3.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
468	98	Roofs, HSG D
3,772	98	Paved parking, HSG D
3,753	80	>75% Grass cover, Good, HSG D
7,993	90	Weighted Average
3,753		46.95% Pervious Area
4,240		53.05% Impervious Area
Tc Length Slope Velocity Capacity Description		
(min)	(feet)	(ft/ft) (ft/sec) (cfs)
6.0		
Direct Entry,		

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Type III 24-hr 10-year Rainfall=4.60"
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Summary for Subcatchment 27S: POST 27

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)		CN	Description	
3,003	98		Paved parking, HSG D	
3,003			100.00% Impervious Area	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				

Direct Entry,

Summary for Subcatchment 28S: POST 28

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 0.025 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)		CN	Description	
3,037	98		Paved parking, HSG D	
3,037			100.00% Impervious Area	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				

Direct Entry,

Summary for Subcatchment 29S: POST 29

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)		CN	Description	
2,681	98		Paved parking, HSG D	
2,681			100.00% Impervious Area	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				

Direct Entry,

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Type III 24-hr 10-year Rainfall=4.60"
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Summary for Subcatchment 30S: POST 30

Runoff = 2.22 cfs @ 12.09 hrs, Volume= 0.164 af, Depth= 3.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)		CN	Description	
3,210	98		Roofs, HSG D	
8,847	98		Paved parking, HSG D	
14,062	80		>75% Grass cover, Good, HSG D	
26,119	88		Weighted Average	
14,062			53.84% Pervious Area	
12,057			46.16% Impervious Area	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				

Direct Entry,

Summary for Subcatchment 31S: POST 31

Runoff = 2.10 cfs @ 12.09 hrs, Volume= 0.156 af, Depth= 3.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)		CN	Description	
3,204	98		Roofs, HSG D	
8,044	98		Paved parking, HSG D	
1,343	98		Unconnected pavement, HSG D	
11,530	80		>75% Grass cover, Good, HSG D	
24,121	89		Weighted Average	
11,530			47.80% Pervious Area	
12,591			52.20% Impervious Area	
1,343			10.67% Unconnected	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				

Direct Entry,

Summary for Subcatchment 32S: POST 32

Runoff = 2.93 cfs @ 12.09 hrs, Volume= 0.216 af, Depth= 3.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
4,350	98	Roofs, HSG D
9,063	98	Paved parking, HSG D
21,986	80	>75% Grass cover, Good, HSG D

35,399	87	Weighted Average
21,986		62.11% Pervious Area
13,413		37.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 33S: POST 33

Runoff = 1.20 cfs @ 12.09 hrs, Volume= 0.092 af, Depth= 3.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
1,908	98	Roofs, HSG D
6,727	98	Paved parking, HSG D
216	98	Unconnected pavement, HSG D
106	98	Paved parking, HSG A
3,719	80	>75% Grass cover, Good, HSG D

12,676	93	Weighted Average
3,719		29.34% Pervious Area
8,957		70.66% Impervious Area
216		2.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 34S: POST 34

Runoff = 2.50 cfs @ 12.09 hrs, Volume= 0.185 af, Depth= 3.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
3,227	98	Roofs, HSG D
10,066	98	Paved parking, HSG D
16,160	80	>75% Grass cover, Good, HSG D

29,453	88	Weighted Average
16,160		54.87% Pervious Area
13,293		45.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 35S: POST 35

Runoff = 0.39 cfs @ 12.11 hrs, Volume= 0.032 af, Depth= 1.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
5,253	80	>75% Grass cover, Good, HSG D
7,605	39	>75% Grass cover, Good, HSG A
1,779	98	Roofs, HSG D

14,637	61	Weighted Average
12,858		87.85% Pervious Area
1,779		12.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 36S: POST 36

Runoff = 0.00 cfs @ 14.58 hrs, Volume= 0.002 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
7,243	39	>75% Grass cover, Good, HSG A
7,243		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 37S: POST 37

Runoff = 0.06 cfs @ 12.28 hrs, Volume= 0.011 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
8,816	39	>75% Grass cover, Good, HSG A
3,764	61	>75% Grass cover, Good, HSG B
381	96	Gravel surface, HSG A
352	96	Gravel surface, HSG B
13,313	48	Weighted Average
13,313		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 38S: POST 38

Runoff = 0.02 cfs @ 12.41 hrs, Volume= 0.006 af, Depth= 0.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
11,263	39	>75% Grass cover, Good, HSG A
1,102	61	>75% Grass cover, Good, HSG B
427	96	Gravel surface, HSG A
12,792	43	Weighted Average
12,792		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: POST 39

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.051 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Adj	Description
810	98		Roofs, HSG D
8,229	80		>75% Grass cover, Good, HSG D
748	98		Unconnected pavement, HSG D
882	39		>75% Grass cover, Good, HSG A
202	98		Unconnected pavement, HSG A
10,871	80	79	Weighted Average, UI Adjusted
9,111			83.81% Pervious Area
1,760			16.19% Impervious Area
950			53.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: POST 40

Runoff = 0.41 cfs @ 12.10 hrs, Volume= 0.031 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Adj	Description
1,018	98		Roofs, HSG D
5,471	80		>75% Grass cover, Good, HSG D
506	98		Unconnected pavement, HSG A
4,230	39		>75% Grass cover, Good, HSG A
11,225	67	66	Weighted Average, UI Adjusted
9,701			86.42% Pervious Area
1,524			13.58% Impervious Area
506			33.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 42S: POST 42

Runoff = 7.45 cfs @ 12.13 hrs, Volume= 0.603 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
91,127	80	>75% Grass cover, Good, HSG D
15,663	77	Woods, Good, HSG D
11,784	98	Roofs, HSG D
174	98	Roofs, HSG A
846	39	>75% Grass cover, Good, HSG A
119,594	81	Weighted Average
107,636		90.00% Pervious Area
11,958		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.0	91	0.0430	1.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.2	72	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	71	0.0980	2.19		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.3	314	0.0500	1.57		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
9.3	598	Total			

Summary for Subcatchment 43S: POST 43 (PERIMETER)

Runoff = 3.37 cfs @ 12.42 hrs, Volume= 0.714 af, Depth= 0.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
153,802	39	>75% Grass cover, Good, HSG A
480,558	30	Woods, Good, HSG A
119,742	55	Woods, Good, HSG B
3,192	98	Roofs, HSG D
110,786	61	>75% Grass cover, Good, HSG B
83,132	77	Woods, Good, HSG D
4,334	96	Gravel surface, HSG A
794	96	Gravel surface, HSG D
3,302	98	Unconnected pavement, HSG A
55,819	80	>75% Grass cover, Good, HSG D
13,460	96	Gravel surface, HSG B
1,028,921	46	Weighted Average
1,022,427		99.37% Pervious Area
6,494		0.63% Impervious Area
3,302		50.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
3.4	337	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	110	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.3	497	Total			

Summary for Subcatchment 44S: POST 44

Runoff = 5.39 cfs @ 12.12 hrs, Volume= 0.582 af, Depth= 0.68"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
268,531	39	>75% Grass cover, Good, HSG A
20,513	30	Woods, Good, HSG A
6,364	77	Woods, Good, HSG D
140,721	80	>75% Grass cover, Good, HSG D
9,264	98	Roofs, HSG D
445,393	53	Weighted Average
436,129		97.92% Pervious Area
9,264		2.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 46S: POST 45

Runoff = 1.52 cfs @ 12.40 hrs, Volume= 0.318 af, Depth= 0.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
241,884	30	Woods, Good, HSG A
95,851	77	Woods, Good, HSG D
7,023	96	Gravel surface, HSG A
2,364	96	Gravel surface, HSG D
79,566	39	>75% Grass cover, Good, HSG A
28,376	80	>75% Grass cover, Good, HSG D
3,192	98	Roofs, HSG D
458,256	46	Weighted Average
455,064		99.30% Pervious Area
3,192		0.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1					Direct Entry,

Summary for Subcatchment 65S: POST 12

Runoff = 1.71 cfs @ 12.13 hrs, Volume= 0.142 af, Depth= 1.60"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
2,804	98	Roofs, HSG D
2,957	98	Paved parking, HSG D
102	98	Unconnected pavement, HSG D
15,718	80	>75% Grass cover, Good, HSG D
2,914	98	Roofs, HSG A
2,970	98	Paved parking, HSG A
18,928	39	>75% Grass cover, Good, HSG A
46,393	68	Weighted Average
34,646		74.68% Pervious Area
11,747		25.32% Impervious Area
102		0.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.7	142	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	43	0.3200	3.96		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.8	144	0.0380	1.36		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.6	150	0.0060	1.57		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.6	529	Total			

Summary for Subcatchment 69S: POST 41

Runoff = 3.63 cfs @ 12.16 hrs, Volume= 0.331 af, Depth= 1.20"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
4,940	96	Gravel surface, HSG D
16,434	77	Woods, Good, HSG D
25,175	39	>75% Grass cover, Good, HSG A
31,571	30	Woods, Good, HSG A
66,129	80	>75% Grass cover, Good, HSG D
144,249	62	Weighted Average
144,249		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	50	0.1000	0.28		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
3.9	392	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.7	113	0.0800	0.71		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
9.6	555	Total			

Summary for Subcatchment 70S: POST 17

Runoff = 0.43 cfs @ 12.17 hrs, Volume= 0.067 af, Depth= 0.49"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-year Rainfall=4.60"

Area (sf)	CN	Description
473	96	Gravel surface, HSG D
12,174	80	>75% Grass cover, Good, HSG D
3,962	96	Gravel surface, HSG A
1,839	30	Woods, Good, HSG A
52,644	39	>75% Grass cover, Good, HSG A
71,092	49	Weighted Average
71,092		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: INFIL. BASIN #1

Inflow Area = 1,590 ac, 27.54% Impervious, Inflow Depth = 0.51" for 10-year event
Inflow = 0.78 cfs @ 12.10 hrs, Volume= 0.067 af
Outflow = 0.08 cfs @ 13.30 hrs, Volume= 0.067 af, Atten= 90%, Lag= 72.2 min
Discarded = 0.08 cfs @ 13.30 hrs, Volume= 0.067 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.79 @ 13.30 hrs Surf.Area= 991 sf Storage= 1,265 cf
Plug-Flow detention time= 215.7 min calculated for 0.067 af (100% of inflow)
Center-of-Mass det. time= 215.8 min (1,049.3 - 833.5)

Volume	Invert	Avail.Storage	Storage Description
#1	245.00'	34,907 cf	Custom Stage Data (Irregular) listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
245.00	111	47.0	0	0	111
246.00	280	66.0	189	189	291
248.00	1,100	152.0	1,290	1,479	1,799
250.00	2,410	245.0	3,425	4,905	4,763
252.00	3,995	283.0	6,339	11,243	6,445
254.00	5,894	332.0	9,828	21,071	8,921
256.00	7,996	370.0	13,837	34,907	11,157

Device Routing Invert Outlet Devices

#1	Discarded	245.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 243.00'			
#2	Primary	255.00'	10.0' long x 13.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60			
Coef. (English) 2.60 2.64 2.70 2.66 2.65 2.65 2.65 2.63			

Discarded OutFlow Max=0.08 cfs @ 13.30 hrs HW=247.79' (Free Discharge)
1-Exfiltration (Controls 0.08 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=245.00' (Free Discharge)
2-Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 2P: INFILTRATION BASIN #1-A

Inflow Area = 0.915 ac, 29.75% Impervious, Inflow Depth = 1.54" for 10-year event
Inflow = 1.45 cfs @ 12.09 hrs, Volume= 0.117 af
Outflow = 0.17 cfs @ 12.99 hrs, Volume= 0.117 af, Atten= 88%, Lag= 53.8 min
Discarded = 0.17 cfs @ 12.99 hrs, Volume= 0.117 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 253.66' @ 12.99 hrs Surf.Area= 2,834 sf Storage= 1,753 cf

Plug-Flow detention time= 91.5 min calculated for 0.117 af (100% of inflow)
Center-of-Mass det. time= 91.5 min (921.6 - 830.2)

Volume Invert Avail.Storage Storage Description

#1	253.00	10,119.00	Custom Stage Data (Irregular) listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
253.00	2,452	186.0	0	0	2,452
254.00	3,038	205.0	2,740	2,740	3,075
255.00	3,680	224.0	3,354	6,094	3,758
256.00	4,380	242.0	4,025	10,119	4,465

Device Routing Invert Outlet Devices

#1	Discarded	253.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 243.00'			
#2	Primary	255.50'	8.0' long x 10.0' breadth Broad-Crested Rectangular Weir

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.17 cfs @ 12.99 hrs HW=253.66' (Free Discharge)
1-Exfiltration (Controls 0.17 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=253.00' (Free Discharge)
2-Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 3P: INFIL. BASIN #2

Inflow Area = 11.859 ac, 34.07% Impervious, Inflow Depth = 2.66" for 10-year event
Inflow = 32.69 cfs @ 12.10 hrs, Volume= 2.633 af
Outflow = 12.17 cfs @ 12.42 hrs, Volume= 2.633 af, Atten= 63%, Lag= 18.7 min
Discarded = 0.69 cfs @ 12.42 hrs, Volume= 0.605 af
Primary = 11.48 cfs @ 12.42 hrs, Volume= 2.027 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 269.68' @ 12.42 hrs Surf.Area= 8,884 sf Storage= 38,794 cf

Plug-Flow detention time= 113.3 min calculated for 2.631 af (100% of inflow)
Center-of-Mass det. time= 113.5 min (925.2 - 811.7)

Volume Invert Avail.Storage Storage Description

#1	263.00'	87,659 cf	Custom Stage Data (Irregular) listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
263.00	3,149	223.0	0	0	3,149
264.00	3,847	242.0	3,492	3,492	3,890
266.00	5,412	280.0	9,215	12,707	5,552
268.00	7,203	317.0	12,572	25,279	7,408
270.00	9,220	355.0	16,382	41,661	9,549
272.00	11,463	393.0	20,642	62,303	11,931
274.00	13,933	430.0	25,356	87,659	14,490

Device Routing Invert Outlet Devices

#1	Discarded	263.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 253.00'			
#2	Primary	263.00'	15.0" Round Culvert
L= 87.0' CPP, projecting, no headwall, Ke= 0.900			
Inlet / Outlet Invert= 263.00' / 262.00' S= 0.0115' /' Cc= 0.900			
n= 0.013, Flow Area= 1.23 sf			
#3	Primary	273.00'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60			
Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64			
#4	Device 2	268.70'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	267.00'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#6	Device 2	263.94'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.69 cfs @ 12.42 hrs HW=269.68' (Free Discharge)
1=Exfiltration (Controls 0.69 cfs)

Primary OutFlow Max=11.48 cfs @ 12.42 hrs HW=269.68' (Free Discharge)
2=Culvert (Inlet Controls 11.48 cfs @ 9.35 fps)
4=Sharp-Crested Rectangular Weir (Passes < 50.09 cfs potential flow)
5=Orifice/Grate (Passes < 1.03 cfs potential flow)
6=Orifice/Grate (Passes < 2.22 cfs potential flow)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 6P: INFIL. BASIN #3

Inflow Area = 3.499 ac, 26.06% Impervious, Inflow Depth = 2.93" for 10-year event
Inflow = 11.62 cfs @ 12.09 hrs, Volume= 0.853 af
Outflow = 4.00 cfs @ 12.40 hrs, Volume= 0.853 af, Atten= 66%, Lag= 18.6 min
Discarded = 0.29 cfs @ 12.40 hrs, Volume= 0.467 af
Primary = 3.71 cfs @ 12.40 hrs, Volume= 0.386 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.65' @ 12.40 hrs Surf.Area= 5,596 sf Storage= 16,916 cf

Plug-Flow detention time= 384.5 min calculated for 0.852 af (100% of inflow)
Center-of-Mass det. time= 385.3 min (1,196.6' - 811.2')

Volume	Invert	Avail. Storage	Storage Description	Custom Stage Data (Irregular) Listed below (Recalc)			
#1	312.00'		41,148 cf				
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area		
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)		
312.00	1,767	179.0	0	0	1,767		
314.00	3,405	239.0	5,083	5,083	3,806		
316.00	5,012	284.0	8,365	13,449	5,751		
318.00	6,898	329.0	11,860	25,309	8,030		
320.00	8,987	367.0	15,839	41,148	10,247		

Device	Routing	Invert	Outlet Devices
#1	Discarded	312.00'	1,020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 310.00'
#2	Primary	312.00'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 312.00' / 310.00' S= 0.0333 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#3	Primary	319.50'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64 16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s) 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	316.50'	
#5	Device 2	315.00'	

Discarded OutFlow Max=0.29 cfs @ 12.40 hrs HW=316.65' (Free Discharge)
1=Exfiltration (Controls 0.29 cfs)

Primary OutFlow Max=3.66 cfs @ 12.40 hrs HW=316.65' (Free Discharge)
2=Culvert (Passes 3.66 cfs of 6.08 cfs potential flow)
4=Sharp-Crested Rectangular Weir (Weir Controls 3.15 cfs @ 1.28 fps)
5=Orifice/Grate (Orifice Controls 0.51 cfs @ 5.87 fps)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 7P: CB-103

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 1.28" for 10-year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.27' @ 12.09 hrs
Flood Elev= 250.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.90'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 247.90' / 247.80' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=248.26' (Free Discharge)
1=Culvert (Barrel Controls 0.35 cfs @ 2.06 fps)

Summary for Pond 8P: CB-102

Inflow Area = 0.103 ac, 81.80% Impervious, Inflow Depth = 3.19" for 10-year event
Inflow = 0.37 cfs @ 12.09 hrs, Volume= 0.027 af
Outflow = 0.37 cfs @ 12.09 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
Primary = 0.37 cfs @ 12.09 hrs, Volume= 0.027 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.14' @ 12.09 hrs
Flood Elev= 249.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.80'	12.0" Round Culvert L= 17.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 246.80' / 246.50' S= 0.0176 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.36 cfs @ 12.09 hrs HW=247.14' (Free Discharge)
1=Culvert (Inlet Controls 0.36 cfs @ 1.56 fps)

Summary for Pond 9P: CB-106

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 1.84" for 10-year event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.08' @ 12.10 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.50' / 258.20' S= 0.0300' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.10 hrs HW=259.08' (Free Discharge)
1=Culvert (Inlet Controls 0.96 cfs @ 2.04 fps)

Summary for Pond 10P: CB-107

Inflow Area = 0.132 ac, 79.87% Impervious, Inflow Depth = 3.29" for 10-year event
Inflow = 0.49 cfs @ 12.09 hrs, Volume= 0.036 af
Outflow = 0.49 cfs @ 12.09 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.09 hrs, Volume= 0.036 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.09' @ 12.09 hrs
Flood Elev= 262.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.70'	12.0" Round Culvert

L= 57.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.70' / 254.50' S= 0.0737' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=259.09' (Free Discharge)
1=Culvert (Inlet Controls 0.48 cfs @ 1.68 fps)

Summary for Pond 11P: DMH-101

Inflow Area = 0.369 ac, 44.88% Impervious, Inflow Depth = 1.81" for 10-year event
Inflow = 0.73 cfs @ 12.09 hrs, Volume= 0.056 af
Outflow = 0.73 cfs @ 12.09 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 0.73 cfs @ 12.09 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 246.89' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.40'	12.0" Round Culvert

L= 105.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 246.40' / 245.00' S= 0.0133' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.71 cfs @ 12.09 hrs HW=246.89' (Free Discharge)
1=Culvert (Inlet Controls 0.71 cfs @ 1.88 fps)

Summary for Pond 12P: DMH-102

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 1.28" for 10-year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.04' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.70'	12.0" Round Culvert

L= 113.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 247.70' / 246.90' S= 0.0071' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=248.03' (Free Discharge)
1=Culvert (Inlet Controls 0.35 cfs @ 1.55 fps)

Summary for Pond 13P: DMH-103

Inflow Area = 0.621 ac, 43.80% Impervious, Inflow Depth = 2.15" for 10-year event
Inflow = 1.45 cfs @ 12.09 hrs, Volume= 0.111 af
Outflow = 1.45 cfs @ 12.09 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
Primary = 1.45 cfs @ 12.09 hrs, Volume= 0.111 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 254.74' @ 12.09 hrs
Flood Elev= 262.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	254.00'	12.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 254.00' / 253.00' S= 0.0130' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=254.74' (Free Discharge)
1=Culvert (Inlet Controls 1.43 cfs @ 2.31 fps)

Summary for Pond 14P: DMH-104

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 1.84" for 10-year event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.075 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 258.68' @ 12.10 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.10'	12.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.10' / 255.80' S= 0.0253 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.10 hrs HW=258.68' (Free Discharge)
1=Culvert (Inlet Controls 0.96 cfs @ 2.04 fps)

Summary for Pond 15P: DMH-201

Inflow Area = 11.568 ac, 33.14% Impervious, Inflow Depth = 2.64" for 10-year event
Inflow = 31.51 cfs @ 12.10 hrs, Volume= 2.540 af
Outflow = 31.51 cfs @ 12.10 hrs, Volume= 2.540 af, Atten= 0%, Lag= 0.0 min
Primary = 31.51 cfs @ 12.10 hrs, Volume= 2.540 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 267.45' @ 12.10 hrs
Flood Elev= 275.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.60'	36.0" Round Culvert

L= 41.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 264.60' / 263.00' S= 0.0390 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.28 cfs @ 12.10 hrs HW=267.43' (Free Discharge)
1=Culvert (Inlet Controls 31.28 cfs @ 4.52 fps)

Summary for Pond 16P: DMH-202

Inflow Area = 3.827 ac, 47.80% Impervious, Inflow Depth = 3.33" for 10-year event
Inflow = 14.22 cfs @ 12.09 hrs, Volume= 1.063 af
Outflow = 14.22 cfs @ 12.09 hrs, Volume= 1.063 af, Atten= 0%, Lag= 0.0 min
Primary = 14.22 cfs @ 12.09 hrs, Volume= 1.063 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.32' @ 12.09 hrs
Flood Elev= 283.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.90'	24.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.90' / 271.00' S= 0.0766 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.89 cfs @ 12.09 hrs HW=279.25' (Free Discharge)
1=Culvert (Inlet Controls 13.89 cfs @ 4.42 fps)

Summary for Pond 17P: FIELD INLET-201

Inflow Area = 0.250 ac, 16.19% Impervious, Inflow Depth = 2.46" 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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.28' @ 12.09 hrs
Flood Elev= 282.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	12.0" Round Culvert

L= 46.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 278.00' S= 0.0174 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=279.28' (Free Discharge)
1=Culvert (Inlet Controls 0.69 cfs @ 1.86 fps)

Summary for Pond 18P: CB-202

Inflow Area = 0.676 ac, 45.13% Impervious, Inflow Depth = 3.29" for 10-year event
Inflow = 2.50 cfs @ 12.09 hrs, Volume= 0.185 af
Outflow = 2.50 cfs @ 12.09 hrs, Volume= 0.185 af, Atten= 0%, Lag= 0.0 min
Primary = 2.50 cfs @ 12.09 hrs, Volume= 0.185 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.10' @ 12.09 hrs
Flood Elev= 282.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.90'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.90' / 278.00' S= 0.0474 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.45 cfs @ 12.09 hrs HW=280.07' (Free Discharge)
1=Culvert (Inlet Controls 2.45 cfs @ 3.12 fps)

Summary for Pond 19P: CB-201

Inflow Area = 0.040 ac, 97.61% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.73' @ 12.09 hrs
Flood Elev= 282.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.50'	12.0" Round Culvert

L= 43.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.50' / 278.00' S= 0.0116' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=278.73' (Free Discharge)
1=Culvert (Inlet Controls 0.17 cfs @ 1.28 fps)

Summary for Pond 20P: DMH-203

Inflow Area = 7.741 ac, 25.90% Impervious, Inflow Depth = 2.29" for 10-year event
Inflow = 17.63 cfs @ 12.12 hrs, Volume= 1.477 af
Outflow = 17.63 cfs @ 12.12 hrs, Volume= 1.477 af, Atten= 0%, Lag= 0.0 min
Primary = 17.63 cfs @ 12.12 hrs, Volume= 1.477 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.74' @ 12.12 hrs
Flood Elev= 283.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.60'	30.0" Round Culvert

L= 70.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.60' / 270.50' S= 0.0871' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.17 cfs @ 12.12 hrs HW=278.70' (Free Discharge)
1=Culvert (Inlet Controls 17.17 cfs @ 3.90 fps)

Summary for Pond 21P: CB-204

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.22 cfs @ 12.09 hrs, Volume= 0.019 af
Outflow = 0.22 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 12.09 hrs, Volume= 0.019 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.36' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0550' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=280.36' (Free Discharge)
1=Culvert (Inlet Controls 0.22 cfs @ 1.36 fps)

Summary for Pond 22P: CB-205

Inflow Area = 0.310 ac, 28.18% Impervious, Inflow Depth = 1.95" for 10-year event
Inflow = 0.64 cfs @ 12.10 hrs, Volume= 0.050 af
Outflow = 0.64 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.10 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.56' @ 12.10 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 33.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0333' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.10 hrs HW=280.55' (Free Discharge)
1=Culvert (Inlet Controls 0.63 cfs @ 1.81 fps)

Summary for Pond 23P: DMH-204

Inflow Area = 7.380 ac, 25.29% Impervious, Inflow Depth = 2.29" for 10-year event
Inflow = 16.80 cfs @ 12.12 hrs, Volume= 1.408 af
Outflow = 16.80 cfs @ 12.12 hrs, Volume= 1.408 af, Atten= 0%, Lag= 0.0 min
Primary = 16.80 cfs @ 12.12 hrs, Volume= 1.408 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.59' @ 12.12 hrs
Flood Elev= 285.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.50'	30.0" Round Culvert

L= 192.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 277.50' / 276.70' S= 0.0042' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.35 cfs @ 12.12 hrs HW=279.56' (Free Discharge)
1=Culvert (Barrel Controls 16.35 cfs @ 5.15 fps)

Summary for Pond 24P: CB-206

Inflow Area = 0.633 ac, 31.21% Impervious, Inflow Depth = 2.13" for 10-year event
Inflow = 1.32 cfs @ 12.16 hrs, Volume= 0.112 af
Outflow = 1.32 cfs @ 12.16 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min
Primary = 1.32 cfs @ 12.16 hrs, Volume= 0.112 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.13' @ 12.16 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	24.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.30 cfs @ 12.16 hrs HW=282.13' (Free Discharge)
1=Culvert (Inlet Controls 1.30 cfs @ 1.95 fps)

Summary for Pond 25P: CB-207

Inflow Area = 0.068 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.90' @ 12.09 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=281.90' (Free Discharge)
1=Culvert (Inlet Controls 0.29 cfs @ 1.47 fps)

Summary for Pond 26P: DMH-205

Inflow Area = 6.679 ac, 23.97% Impervious, Inflow Depth = 2.28" for 10-year event
Inflow = 15.29 cfs @ 12.12 hrs, Volume= 1.271 af
Outflow = 15.29 cfs @ 12.12 hrs, Volume= 1.271 af, Atten= 0%, Lag= 0.0 min
Primary = 15.29 cfs @ 12.12 hrs, Volume= 1.271 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.22' @ 12.12 hrs
Flood Elev= 286.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.20'	30.0" Round Culvert

L= 151.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.20' / 277.60' S= 0.0040 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.89 cfs @ 12.12 hrs HW=280.18' (Free Discharge)
1=Culvert (Barrel Controls 14.89 cfs @ 4.90 fps)

Summary for Pond 27P: DMH-206

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 2.41" for 10-year event
Inflow = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af
Outflow = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af, Atten= 0%, Lag= 0.0 min
Primary = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.84' @ 12.12 hrs
Flood Elev= 286.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	279.00'	30.0" Round Culvert

L= 168.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 279.00' / 278.30' S= 0.0042 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.24 cfs @ 12.12 hrs HW=280.81' (Free Discharge)
1=Culvert (Barrel Controls 13.24 cfs @ 4.86 fps)

Summary for Pond 28P: DMH-207

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 2.41" for 10-year event
Inflow = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af
Outflow = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af, Atten= 0%, Lag= 0.0 min
Primary = 13.59 cfs @ 12.12 hrs, Volume= 1.129 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.00' @ 12.12 hrs
Flood Elev= 285.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.20'	30.0" Round Culvert

L= 268.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.20' / 279.10' S= 0.0041 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.24 cfs @ 12.12 hrs HW=281.97' (Free Discharge)
1=Culvert (Inlet Controls 13.24 cfs @ 3.57 fps)

Summary for Pond 29P: CB-208

Inflow Area = 0.147 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.66' @ 12.09 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	12.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=282.65' (Free Discharge)
1=Culvert (Inlet Controls 0.63 cfs @ 1.81 fps)

Summary for Pond 30P: CB-209

Inflow Area = 1.565 ac, 25.24% Impervious, Inflow Depth = 1.28" for 10-year event
Inflow = 1.73 cfs @ 12.15 hrs, Volume= 0.167 af
Outflow = 1.73 cfs @ 12.15 hrs, Volume= 0.167 af, Atten= 0%, Lag= 0.0 min
Primary = 1.73 cfs @ 12.15 hrs, Volume= 0.167 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.93' @ 12.15 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	15.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.72 cfs @ 12.15 hrs HW=282.93' (Free Discharge)
1=Culvert (Inlet Controls 1.72 cfs @ 2.30 fps)

Summary for Pond 31P: DMH-208

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 2.80" for 10-year event
Inflow = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af
Outflow = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af, Atten= 0%, Lag= 0.0 min
Primary = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 285.38' @ 12.11 hrs
Flood Elev= 289.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.50'	24.0" Round Culvert

L= 165.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.50' / 280.70' S= 0.0170 ' S= 0.0170 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=11.08 cfs @ 12.11 hrs HW=285.35' (Free Discharge)
1=Culvert (Inlet Controls 11.08 cfs @ 3.65 fps)

Summary for Pond 32P: DMH-209

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 2.80" for 10-year event
Inflow = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af
Outflow = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af, Atten= 0%, Lag= 0.0 min
Primary = 11.34 cfs @ 12.11 hrs, Volume= 0.909 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.28' @ 12.11 hrs
Flood Elev= 301.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	296.40'	24.0" Round Culvert

L= 150.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 296.40' / 283.60' S= 0.0853 ' S= 0.0853 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=11.08 cfs @ 12.11 hrs HW=298.25' (Free Discharge)
1=Culvert (Inlet Controls 11.08 cfs @ 3.65 fps)

Summary for Pond 33P: CB-210

Inflow Area = 0.067 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af
Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.30' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250 ' S= 0.0250 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=298.30' (Free Discharge)
1=Culvert (Inlet Controls 0.28 cfs @ 1.46 fps)

Summary for Pond 34P: CB-211

Inflow Area = 0.649 ac, 44.46% Impervious, Inflow Depth = 3.10" for 10-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 299.08' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	12.0" Round Culvert L= 12.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.23 cfs @ 12.09 hrs HW=299.06' (Free Discharge)
↑1=Culvert (Inlet Controls 2.23 cfs @ 2.84 fps)

Summary for Pond 35P: DMH-210

Inflow Area = 0.440 ac, 36.22% Impervious, Inflow Depth = 3.12" for 10-year event
Inflow = 1.54 cfs @ 12.09 hrs, Volume= 0.114 af
Outflow = 1.54 cfs @ 12.09 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 1.54 cfs @ 12.09 hrs, Volume= 0.114 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.37' @ 12.09 hrs
Flood Elev= 320.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.60'	12.0" Round Culvert L= 322.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 315.60' / 297.40' S= 0.0565 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.51 cfs @ 12.09 hrs HW=316.36' (Free Discharge)
↑1=Culvert (Inlet Controls 1.51 cfs @ 2.35 fps)

Summary for Pond 36P: CB-212

Inflow Area = 0.038 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.22' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.09 hrs HW=316.22' (Free Discharge)
↑1=Culvert (Inlet Controls 0.16 cfs @ 1.26 fps)

Summary for Pond 37P: CB-213

Inflow Area = 0.401 ac, 30.12% Impervious, Inflow Depth = 3.00" for 10-year event
Inflow = 1.37 cfs @ 12.09 hrs, Volume= 0.100 af
Outflow = 1.37 cfs @ 12.09 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min
Primary = 1.37 cfs @ 12.09 hrs, Volume= 0.100 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.72' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert L= 13.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.34 cfs @ 12.09 hrs HW=316.71' (Free Discharge)
↑1=Culvert (Inlet Controls 1.34 cfs @ 2.26 fps)

Summary for Pond 38P: DMH-301

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 3.30" for 10-year event
Inflow = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af
Outflow = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af, Atten= 0%, Lag= 0.0 min
Primary = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 317.60' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.90'	18.0" Round Culvert L= 71.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 315.90' / 312.00' S= 0.0549 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.41 cfs @ 12.09 hrs HW=317.56' (Free Discharge)
↑1=Culvert (Inlet Controls 6.41 cfs @ 3.63 fps)

Summary for Pond 39P: DMH-302

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 3.30" for 10-year event
Inflow = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af
Outflow = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af, Atten= 0%, Lag= 0.0 min
Primary = 6.56 cfs @ 12.09 hrs, Volume= 0.486 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.90' @ 12.09 hrs
Flood Elev= 324.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	319.20'	18.0" Round Culvert

L= 154.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 319.20' / 316.00' S= 0.0208 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.41 cfs @ 12.09 hrs HW=320.86' (Free Discharge)
1=Culvert (Inlet Controls 6.41 cfs @ 3.63 fps)

Summary for Pond 40P: CB-301

Inflow Area = 0.684 ac, 45.40% Impervious, Inflow Depth = 3.29" for 10-year event
Inflow = 2.53 cfs @ 12.09 hrs, Volume= 0.188 af
Outflow = 2.53 cfs @ 12.09 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min
Primary = 2.53 cfs @ 12.09 hrs, Volume= 0.188 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 321.22' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.48 cfs @ 12.09 hrs HW=321.19' (Free Discharge)
1=Culvert (Inlet Controls 2.48 cfs @ 3.15 fps)

Summary for Pond 41P: CB-302

Inflow Area = 0.363 ac, 36.80% Impervious, Inflow Depth = 3.19" for 10-year event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.096 af
Outflow = 1.31 cfs @ 12.09 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.09 hrs, Volume= 0.096 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.70' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=320.69' (Free Discharge)
1=Culvert (Inlet Controls 1.28 cfs @ 2.23 fps)

Summary for Pond 42P: DMH-303

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 3.35" for 10-year event
Inflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 329.22' @ 12.09 hrs
Flood Elev= 332.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	327.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 327.90' / 319.70' S= 0.0636 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.65 cfs @ 12.09 hrs HW=329.19' (Free Discharge)
1=Culvert (Inlet Controls 2.65 cfs @ 3.37 fps)

Summary for Pond 43P: DMH-304

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 3.35" for 10-year event
Inflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.22' @ 12.09 hrs
Flood Elev= 339.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	335.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 335.90' / 328.00' S= 0.0612 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.65 cfs @ 12.09 hrs HW=337.19' (Free Discharge)
1=Culvert (Inlet Controls 2.65 cfs @ 3.37 fps)

Summary for Pond 44P: CB-303

Inflow Area = 0.392 ac, 53.86% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 1.52 cfs @ 12.09 hrs, Volume= 0.114 af
Outflow = 1.52 cfs @ 12.09 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 1.52 cfs @ 12.09 hrs, Volume= 0.114 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.17' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 17.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0235' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.48 cfs @ 12.09 hrs HW=337.15' (Free Discharge)
1=Culvert (Inlet Controls 1.48 cfs @ 2.34 fps)

Summary for Pond 45P: CB-304

Inflow Area = 0.330 ac, 38.23% Impervious, Inflow Depth = 3.19" for 10-year event
Inflow = 1.19 cfs @ 12.09 hrs, Volume= 0.088 af
Outflow = 1.19 cfs @ 12.09 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
Primary = 1.19 cfs @ 12.09 hrs, Volume= 0.088 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.06' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.16 cfs @ 12.09 hrs HW=337.05' (Free Discharge)
1=Culvert (Inlet Controls 1.16 cfs @ 2.16 fps)

Summary for Pond 46P: DMH-218

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.41' @ 12.09 hrs
Flood Elev= 336.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.10'	12.0" Round Culvert

L= 81.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.10' / 328.20' S= 0.0481' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.63 cfs @ 12.09 hrs HW=333.38' (Free Discharge)
1=Culvert (Inlet Controls 2.63 cfs @ 3.35 fps)

Summary for Pond 47P: CB-220

Inflow Area = 0.512 ac, 53.40% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 1.99 cfs @ 12.09 hrs, Volume= 0.149 af
Outflow = 1.99 cfs @ 12.09 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
Primary = 1.99 cfs @ 12.09 hrs, Volume= 0.149 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.43' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 15.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0200' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.94 cfs @ 12.09 hrs HW=333.42' (Free Discharge)
1=Culvert (Inlet Controls 1.94 cfs @ 2.57 fps)

Summary for Pond 48P: CB-221

Inflow Area = 0.183 ac, 53.05% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 0.71 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.71 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.09 hrs, Volume= 0.053 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 332.99' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 9.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0333' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=332.98' (Free Discharge)
1=Culvert (Inlet Controls 0.69 cfs @ 1.86 fps)

Summary for Pond 49P: DMH-217

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 329.41' @ 12.09 hrs
Flood Elev= 332.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	328.10'	12.0" Round Culvert

L= 147.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 328.10' / 321.30' S= 0.0463 ' S= 0.0463 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.63 cfs @ 12.09 hrs HW=329.38' (Free Discharge)
1-Culvert (Inlet Controls 2.63 cfs @ 3.35 fps)

Summary for Pond 50P: DMH-216

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 3.49" for 10-year event
Inflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.70 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 322.51' @ 12.09 hrs
Flood Elev= 325.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	321.20'	12.0" Round Culvert

L= 118.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 321.20' / 318.10' S= 0.0263 ' S= 0.0263 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.63 cfs @ 12.09 hrs HW=322.48' (Free Discharge)
1-Culvert (Inlet Controls 2.63 cfs @ 3.35 fps)

Summary for Pond 52P: DMH-215

Inflow Area = 0.834 ac, 61.07% Impervious, Inflow Depth = 3.64" for 10-year event
Inflow = 3.31 cfs @ 12.09 hrs, Volume= 0.253 af
Outflow = 3.31 cfs @ 12.09 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min
Primary = 3.31 cfs @ 12.09 hrs, Volume= 0.253 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 319.02' @ 12.09 hrs
Flood Elev= 322.40'

Device Routing Invert Outlet Devices

#1	Primary	317.90'	15.0" Round Culvert
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L= 247.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 317.90' / 310.00' S= 0.0320 ' S= 0.0320 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.23 cfs @ 12.09 hrs HW=319.00' (Free Discharge)
1-Culvert (Inlet Controls 3.23 cfs @ 2.82 fps)

Summary for Pond 53P: CB-219

Inflow Area = 0.069 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.71' @ 12.09 hrs
Flood Elev= 322.40'

Device Routing Invert Outlet Devices

#1	Primary	318.40'	12.0" Round Culvert
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L= 21.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=318.70' (Free Discharge)
1-Culvert (Inlet Controls 0.29 cfs @ 1.47 fps)

Summary for Pond 54P: CB-218

Inflow Area = 0.070 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.31 cfs @ 12.09 hrs, Volume= 0.025 af
Outflow = 0.31 cfs @ 12.09 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.09 hrs, Volume= 0.025 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.71' @ 12.09 hrs
Flood Elev= 322.40'

Device Routing Invert Outlet Devices

#1	Primary	318.40'	12.0" Round Culvert
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L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0158 ' S= 0.0158 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.09 hrs HW=318.70' (Free Discharge)
1-Culvert (Inlet Controls 0.30 cfs @ 1.48 fps)

Summary for Pond 55P: DMH-214

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 3.53" for 10-year event
Inflow = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af
Outflow = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af, Atten= 0%, Lag= 0.0 min
Primary = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 311.28' @ 12.09 hrs
Flood Elev= 315.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.80'	18.0" Round Culvert

L= 95.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 309.80' / 305.60' S= 0.0442' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.67 cfs @ 12.09 hrs HW=311.25' (Free Discharge)
1=Culvert (Inlet Controls 5.67 cfs @ 3.24 fps)

Summary for Pond 56P: CB-217

Inflow Area = 0.062 ac, 100.00% Impervious, Inflow Depth = 4.36" for 10-year event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.49' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0150' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=312.48' (Free Discharge)
1=Culvert (Inlet Controls 0.26 cfs @ 1.43 fps)

Summary for Pond 57P: CB-216

Inflow Area = 0.600 ac, 46.16% Impervious, Inflow Depth = 3.29" for 10-year event
Inflow = 2.22 cfs @ 12.09 hrs, Volume= 0.164 af
Outflow = 2.22 cfs @ 12.09 hrs, Volume= 0.164 af, Atten= 0%, Lag= 0.0 min
Primary = 2.22 cfs @ 12.09 hrs, Volume= 0.164 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 313.25' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 111.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0273' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.17 cfs @ 12.09 hrs HW=313.23' (Free Discharge)
1=Culvert (Inlet Controls 2.17 cfs @ 2.76 fps)

Summary for Pond 58P: DMH-213

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 3.53" for 10-year event
Inflow = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af
Outflow = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af, Atten= 0%, Lag= 0.0 min
Primary = 5.80 cfs @ 12.09 hrs, Volume= 0.439 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 306.98' @ 12.09 hrs
Flood Elev= 309.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.50'	18.0" Round Culvert

L= 226.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 305.50' / 290.20' S= 0.0677' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.67 cfs @ 12.09 hrs HW=306.95' (Free Discharge)
1=Culvert (Inlet Controls 5.67 cfs @ 3.24 fps)

Summary for Pond 59P: DMH-212

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 3.41" for 10-year event
Inflow = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af
Outflow = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af, Atten= 0%, Lag= 0.0 min
Primary = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.51' @ 12.09 hrs
Flood Elev= 294.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	289.70'	24.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 289.70' / 284.00' S= 0.0626' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=10.58 cfs @ 12.09 hrs HW=291.48' (Free Discharge)
1=Culvert (Inlet Controls 10.58 cfs @ 3.58 fps)

Summary for Pond 60P: CB-214

Inflow Area = 0.813 ac, 37.89% Impervious, Inflow Depth = 3.19" for 10-year event
Inflow = 2.93 cfs @ 12.09 hrs, Volume= 0.216 af
Outflow = 2.93 cfs @ 12.09 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min
Primary = 2.93 cfs @ 12.09 hrs, Volume= 0.216 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.96' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0300 '/ S= 0.0300 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.87 cfs @ 12.09 hrs HW=291.92' (Free Discharge)
1=Culvert (Inlet Controls 2.87 cfs @ 3.65 fps)

Summary for Pond 61P: CB-215

Inflow Area = 0.554 ac, 52.20% Impervious, Inflow Depth = 3.39" for 10-year event
Inflow = 2.10 cfs @ 12.09 hrs, Volume= 0.156 af
Outflow = 2.10 cfs @ 12.09 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 2.10 cfs @ 12.09 hrs, Volume= 0.156 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.49' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0158 '/ S= 0.0158 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.06 cfs @ 12.09 hrs HW=291.47' (Free Discharge)
1=Culvert (Inlet Controls 2.06 cfs @ 2.65 fps)

Summary for Pond 62P: DMH-211

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 3.41" for 10-year event
Inflow = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af
Outflow = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af, Atten= 0%, Lag= 0.0 min
Primary = 10.83 cfs @ 12.09 hrs, Volume= 0.812 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 285.71' @ 12.09 hrs
Flood Elev= 288.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.90'	24.0" Round Culvert

L= 144.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.90' / 277.00' S= 0.0479 '/ S= 0.0479 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=10.58 cfs @ 12.09 hrs HW=285.68' (Free Discharge)
1=Culvert (Inlet Controls 10.58 cfs @ 3.58 fps)

Summary for Pond 63P: FIELD INLET-202

Inflow Area = 2.746 ac, 10.00% Impervious, Inflow Depth = 2.63" for 10-year event
Inflow = 7.45 cfs @ 12.13 hrs, Volume= 0.603 af
Outflow = 7.45 cfs @ 12.13 hrs, Volume= 0.603 af, Atten= 0%, Lag= 0.0 min
Primary = 7.45 cfs @ 12.13 hrs, Volume= 0.603 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 302.20' @ 12.13 hrs
Flood Elev= 304.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	300.80'	24.0" Round Culvert

L= 137.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 300.80' / 297.70' S= 0.0226 '/ S= 0.0226 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.30 cfs @ 12.13 hrs HW=302.18' (Free Discharge)
1=Culvert (Inlet Controls 7.30 cfs @ 3.16 fps)

Summary for Pond 66P: CB-222

Inflow Area = 1.065 ac, 25.32% Impervious, Inflow Depth = 1.60" for 10-year event
Inflow = 1.71 cfs @ 12.13 hrs, Volume= 0.142 af
Outflow = 1.71 cfs @ 12.13 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 1.71 cfs @ 12.13 hrs, Volume= 0.142 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 283.23' @ 12.13 hrs
Flood Elev= 286.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.40'	12.0" Round Culvert

L= 29.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.40' / 281.80' S= 0.0207 '/ S= 0.0207 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.68 cfs @ 12.13 hrs HW=283.22' (Free Discharge)
1=Culvert (Inlet Controls 1.68 cfs @ 2.44 fps)

Summary for Pond 71P: FIELD INLET-203

Inflow Area = 3.312 ac, 0.00% Impervious, Inflow Depth = 1.20" for 10-year event
Inflow = 3.63 cfs @ 12.16 hrs, Volume= 0.331 af
Outflow = 3.63 cfs @ 12.16 hrs, Volume= 0.331 af, Atten= 0%, Lag= 0.0 min
Primary = 3.63 cfs @ 12.16 hrs, Volume= 0.331 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.85' @ 12.16 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	18.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0821 'f' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.60 cfs @ 12.16 hrs HW=279.84' (Free Discharge)
↑**1=Culvert** (Inlet Controls 3.60 cfs @ 2.74 fps)

Summary for Pond 72P: FIELD INLET-204

Inflow Area = 1.632 ac, 0.00% Impervious, Inflow Depth = 0.49" for 10-year event
Inflow = 0.43 cfs @ 12.17 hrs, Volume= 0.067 af
Outflow = 0.43 cfs @ 12.17 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.17 hrs, Volume= 0.067 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.12' @ 12.17 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	18.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0460 'f' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.42 cfs @ 12.17 hrs HW=279.12' (Free Discharge)
↑**1=Culvert** (Inlet Controls 0.42 cfs @ 1.52 fps)

Summary for Pond 73P: DMH-219

Inflow Area = 4.944 ac, 0.00% Impervious, Inflow Depth = 0.96" for 10-year event
Inflow = 4.06 cfs @ 12.16 hrs, Volume= 0.397 af
Outflow = 4.06 cfs @ 12.16 hrs, Volume= 0.397 af, Atten= 0%, Lag= 0.0 min
Primary = 4.06 cfs @ 12.16 hrs, Volume= 0.397 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 277.13' @ 12.16 hrs
Flood Elev= 284.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.00'	18.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 276.00' / 272.00' S= 0.0465 'f' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.02 cfs @ 12.16 hrs HW=277.12' (Free Discharge)
↑**1=Culvert** (Inlet Controls 4.02 cfs @ 2.84 fps)

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 45.512 ac, 12.17% Impervious, Inflow Depth = 0.93" for 10-year event
Inflow = 20.98 cfs @ 12.39 hrs, Volume= 3.525 af
Primary = 20.98 cfs @ 12.39 hrs, Volume= 3.525 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 20.745 ac, 1.38% Impervious, Inflow Depth = 0.52" for 10-year event
Inflow = 5.61 cfs @ 12.15 hrs, Volume= 0.900 af
Primary = 5.61 cfs @ 12.15 hrs, Volume= 0.900 af, Atten= 0%, Lag= 0.0 min
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method	
Subcatchment1S: POST 1	Runoff Area=4,483 sf 81.80% Impervious Runoff Depth=3.95" Tc=6.0 min CN=87 Runoff=0.46 cfs 0.034 af
Subcatchment2S: POST 2	Runoff Area=4,363 sf 81.46% Impervious Runoff Depth=3.95" Tc=6.0 min CN=87 Runoff=0.44 cfs 0.033 af
Subcatchment3S: POST 3	Runoff Area=5,733 sf 79.87% Impervious Runoff Depth=4.05" Tc=6.0 min CN=88 Runoff=0.59 cfs 0.044 af
Subcatchment4S: POST 4	Runoff Area=6,696 sf 82.11% Impervious Runoff Depth=4.16" Tc=6.0 min CN=89 Runoff=0.71 cfs 0.053 af
Subcatchment5S: POST 5	Runoff Area=1,758 sf 97.61% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.21 cfs 0.017 af
Subcatchment6S: POST 6	Runoff Area=2,283 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af
Subcatchment7S: POST 7	Runoff Area=2,223 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.26 cfs 0.022 af
Subcatchment8S: POST 8	Runoff Area=2,941 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.35 cfs 0.029 af
Subcatchment9S: POST 9	Runoff Area=27,588 sf 31.21% Impervious Runoff Depth=2.78" Tc=11.0 min CN=75 Runoff=1.73 cfs 0.147 af
Subcatchment10S: POST 10	Runoff Area=65,188 sf 21.80% Impervious Runoff Depth=1.62" Flow Length=718' Tc=10.2 min CN=61 Runoff=2.26 cfs 0.201 af
Subcatchment11S: POST 11	Runoff Area=3,352 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.40 cfs 0.033 af
Subcatchment13S: POST 13	Runoff Area=3,056 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.36 cfs 0.030 af
Subcatchment14S: POST 14	Runoff Area=2,995 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.35 cfs 0.030 af
Subcatchment15S: POST 15	Runoff Area=28,290 sf 44.46% Impervious Runoff Depth=3.84" Tc=6.0 min CN=86 Runoff=2.81 cfs 0.208 af
Subcatchment16S: POST 16	Runoff Area=2,911 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.35 cfs 0.029 af
Subcatchment18S: POST 18	Runoff Area=17,479 sf 30.12% Impervious Runoff Depth=3.74" Tc=6.0 min CN=85 Runoff=1.70 cfs 0.125 af

Subcatchment19S: POST 19	Runoff Area=1,672 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.20 cfs 0.017 af
Subcatchment20S: POST 20	Runoff Area=15,797 sf 36.80% Impervious Runoff Depth=3.95" Tc=6.0 min CN=87 Runoff=1.60 cfs 0.119 af
Subcatchment21S: POST 21	Runoff Area=29,809 sf 45.40% Impervious Runoff Depth=4.05" Tc=6.0 min CN=88 Runoff=3.09 cfs 0.231 af
Subcatchment22S: POST 22	Runoff Area=75,352 sf 7.54% Impervious Runoff Depth=3.24" Tc=6.0 min CN=80 Runoff=6.44 cfs 0.468 af
Subcatchment23S: POST 23	Runoff Area=17,079 sf 53.86% Impervious Runoff Depth=4.26" Tc=6.0 min CN=90 Runoff=1.84 cfs 0.139 af
Subcatchment24S: POST 24	Runoff Area=14,367 sf 38.23% Impervious Runoff Depth=3.95" Tc=6.0 min CN=87 Runoff=1.46 cfs 0.108 af
Subcatchment25S: POST 25	Runoff Area=22,287 sf 53.40% Impervious Runoff Depth=4.26" Tc=6.0 min CN=90 Runoff=2.40 cfs 0.182 af
Subcatchment26S: POST 26	Runoff Area=7,993 sf 53.05% Impervious Runoff Depth=4.26" Tc=6.0 min CN=90 Runoff=0.86 cfs 0.065 af
Subcatchment27S: POST 27	Runoff Area=3,003 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.36 cfs 0.030 af
Subcatchment28S: POST 28	Runoff Area=3,037 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.36 cfs 0.030 af
Subcatchment29S: POST 29	Runoff Area=2,681 sf 100.00% Impervious Runoff Depth=5.16" Tc=6.0 min CN=98 Runoff=0.32 cfs 0.026 af
Subcatchment30S: POST 30	Runoff Area=26,119 sf 46.16% Impervious Runoff Depth=4.05" Tc=6.0 min CN=88 Runoff=2.71 cfs 0.202 af
Subcatchment31S: POST 31	Runoff Area=24,121 sf 52.20% Impervious Runoff Depth=4.16" Tc=6.0 min CN=89 Runoff=2.55 cfs 0.192 af
Subcatchment32S: POST 32	Runoff Area=35,399 sf 37.89% Impervious Runoff Depth=3.95" Tc=6.0 min CN=87 Runoff=3.59 cfs 0.267 af
Subcatchment33S: POST 33	Runoff Area=12,676 sf 70.66% Impervious Runoff Depth=4.59" Tc=6.0 min CN=93 Runoff=1.43 cfs 0.111 af
Subcatchment34S: POST 34	Runoff Area=29,453 sf 45.13% Impervious Runoff Depth=4.05" Tc=6.0 min CN=88 Runoff=3.05 cfs 0.228 af
Subcatchment35S: POST 35	Runoff Area=14,637 sf 12.15% Impervious Runoff Depth=1.62" Tc=6.0 min CN=61 Runoff=0.58 cfs 0.045 af

Subcatchment36S: POST 36	Runoff Area=7,243 sf 0.00% Impervious Runoff Depth=0.29" Tc=6.0 min CN=39 Runoff=0.01 cfs 0.004 af
Subcatchment37S: POST 37	Runoff Area=13,313 sf 0.00% Impervious Runoff Depth=0.74" Tc=6.0 min CN=48 Runoff=0.16 cfs 0.019 af
Subcatchment38S: POST 38	Runoff Area=12,792 sf 0.00% Impervious Runoff Depth=0.47" Tc=6.0 min CN=43 Runoff=0.06 cfs 0.012 af
Subcatchment39S: POST 39	Runoff Area=10,871 sf 16.19% Impervious Runoff Depth=3.15" Tc=6.0 min UI Adjusted CN=79 Runoff=0.90 cfs 0.065 af
Subcatchment40S: POST 40	Runoff Area=11,225 sf 13.58% Impervious Runoff Depth=2.01" Tc=6.0 min UI Adjusted CN=66 Runoff=0.58 cfs 0.043 af
Subcatchment42S: POST 42	Runoff Area=119,594 sf 10.00% Impervious Runoff Depth=3.34" Flow Length=598' Tc=9.3 min CN=81 Runoff=9.42 cfs 0.764 af
Subcatchment43S: POST 43	Runoff Area=1,028,921 sf 0.63% Impervious Runoff Depth=0.63" Flow Length=497' Tc=11.3 min CN=46 Runoff=7.73 cfs 1.240 af
Subcatchment44S: POST 44	Runoff Area=445,393 sf 2.08% Impervious Runoff Depth=1.05" Tc=6.0 min CN=53 Runoff=9.94 cfs 0.897 af
Subcatchment46S: POST 45	Runoff Area=458,256 sf 0.70% Impervious Runoff Depth=0.63" Tc=10.1 min CN=46 Runoff=3.49 cfs 0.552 af
Subcatchment65S: POST 12	Runoff Area=46,393 sf 25.32% Impervious Runoff Depth=2.17" Flow Length=529' Tc=8.6 min CN=68 Runoff=2.37 cfs 0.193 af
Subcatchment69S: POST 41	Runoff Area=144,249 sf 0.00% Impervious Runoff Depth=1.69" Flow Length=555' Tc=9.6 min CN=62 Runoff=5.38 cfs 0.467 af
Subcatchment70S: POST 17	Runoff Area=71,092 sf 0.00% Impervious Runoff Depth=0.80" Tc=6.0 min CN=49 Runoff=1.01 cfs 0.109 af
Pond 1P: INFIL. BASIN#1	Discarded=0.10 cfs 0.090 af Peak Elev=248.22' Storage=1,739 cf Inflow=1.05 cfs 0.090 af Discarded=0.10 cfs 0.090 af Primary=0.00 cfs 0.000 af Outflow=0.10 cfs 0.090 af
Pond 2P: INFILTRATION BASIN#1-A	Peak Elev=253.94' Storage=2,546 cf Inflow=1.91 cfs 0.154 af Discarded=0.18 cfs 0.154 af Primary=0.00 cfs 0.000 af Outflow=0.18 cfs 0.154 af
Pond 3P: INFIL. BASIN#2	Peak Elev=270.85' Storage=49,892 cf Inflow=41.02 cfs 3.310 af Discarded=0.81 cfs 0.660 af Primary=12.54 cfs 2.650 af Outflow=13.35 cfs 3.310 af
Pond 6P: INFIL. BASIN#3	Peak Elev=316.87' Storage=18,122 cf Inflow=14.43 cfs 1.066 af Discarded=0.30 cfs 0.487 af Primary=6.24 cfs 0.579 af Outflow=6.54 cfs 1.066 af
Pond 7P: CB-103	Peak Elev=248.31' Inflow=0.44 cfs 0.037 af 12.0" Round Culvert n=0.012 L=20.0' S=0.0050 ' Outflow=0.44 cfs 0.037 af

Pond 8P: CB-102	Peak Elev=247.18' Inflow=0.46 cfs 0.034 af 12.0" Round Culvert n=0.012 L=17.0' S=0.0176 ' Outflow=0.46 cfs 0.034 af
Pond 9P: CB-106	Peak Elev=259.19' Inflow=1.29 cfs 0.098 af 12.0" Round Culvert n=0.012 L=10.0' S=0.0300 ' Outflow=1.29 cfs 0.098 af
Pond 10P: CB-107	Peak Elev=259.14' Inflow=0.59 cfs 0.044 af 12.0" Round Culvert n=0.012 L=57.0' S=0.0737 ' Outflow=0.59 cfs 0.044 af
Pond 11P: DMH-101	Peak Elev=246.96' Inflow=0.90 cfs 0.071 af 12.0" Round Culvert n=0.012 L=105.0' S=0.0133 ' Outflow=0.90 cfs 0.071 af
Pond 12P: DMH-102	Peak Elev=248.07' Inflow=0.44 cfs 0.037 af 12.0" Round Culvert n=0.012 L=113.0' S=0.0071 ' Outflow=0.44 cfs 0.037 af
Pond 13P: DMH-103	Peak Elev=254.89' Inflow=1.88 cfs 0.143 af 12.0" Round Culvert n=0.012 L=77.0' S=0.0130 ' Outflow=1.88 cfs 0.143 af
Pond 14P: DMH-104	Peak Elev=258.79' Inflow=1.29 cfs 0.098 af 12.0" Round Culvert n=0.012 L=91.0' S=0.0253 ' Outflow=1.29 cfs 0.098 af
Pond 15P: DMH-201	Peak Elev=268.27' Inflow=39.61 cfs 3.198 af 36.0" Round Culvert n=0.012 L=41.0' S=0.0390 ' Outflow=39.61 cfs 3.198 af
Pond 16P: DMH-202	Peak Elev=279.99' Inflow=17.31 cfs 1.305 af 24.0" Round Culvert n=0.012 L=77.0' S=0.0766 ' Outflow=17.31 cfs 1.305 af
Pond 17P: FIELD INLET-201	Peak Elev=279.36' Inflow=0.90 cfs 0.065 af 12.0" Round Culvert n=0.012 L=46.0' S=0.0174 ' Outflow=0.90 cfs 0.065 af
Pond 18P: CB-202	Peak Elev=280.44' Inflow=3.05 cfs 0.228 af 12.0" Round Culvert n=0.012 L=19.0' S=0.0474 ' Outflow=3.05 cfs 0.228 af
Pond 19P: CB-201	Peak Elev=278.75' Inflow=0.21 cfs 0.017 af 12.0" Round Culvert n=0.012 L=43.0' S=0.0116 ' Outflow=0.21 cfs 0.017 af
Pond 20P: DMH-203	Peak Elev=279.33' Inflow=22.73 cfs 1.893 af 30.0" Round Culvert n=0.012 L=70.0' S=0.0871 ' Outflow=22.73 cfs 1.893 af
Pond 21P: CB-204	Peak Elev=280.38' Inflow=0.26 cfs 0.022 af 12.0" Round Culvert n=0.012 L=20.0' S=0.0550 ' Outflow=0.26 cfs 0.022 af
Pond 22P: CB-205	Peak Elev=280.64' Inflow=0.85 cfs 0.066 af 12.0" Round Culvert n=0.012 L=33.0' S=0.0333 ' Outflow=0.85 cfs 0.066 af
Pond 23P: DMH-204	Peak Elev=280.09' Inflow=21.66 cfs 1.805 af 30.0" Round Culvert n=0.012 L=192.0' S=0.0042 ' Outflow=21.66 cfs 1.805 af
Pond 24P: CB-206	Peak Elev=282.22' Inflow=1.73 cfs 0.147 af 24.0" Round Culvert n=0.012 L=16.0' S=0.0188 ' Outflow=1.73 cfs 0.147 af

Pond 25P: CB-207	12.0" Round Culvert n=0.012 L=16.0' S=0.188 ' /' Outflow=0.35 cfs 0.029 af Peak Elev=281.93' Inflow=0.35 cfs 0.029 af
Pond 26P: DMH-205	30.0" Round Culvert n=0.012 L=151.0' S=0.0040 ' /' Outflow=19.71 cfs 1.630 af Peak Elev=280.60' Inflow=19.71 cfs 1.630 af
Pond 27P: DMH-206	30.0" Round Culvert n=0.012 L=168.0' S=0.0042 ' /' Outflow=17.34 cfs 1.437 af Peak Elev=281.16' Inflow=17.34 cfs 1.437 af
Pond 28P: DMH-207	30.0" Round Culvert n=0.012 L=268.0' S=0.0041 ' /' Outflow=17.34 cfs 1.437 af Peak Elev=282.32' Inflow=17.34 cfs 1.437 af
Pond 29P: CB-208	12.0" Round Culvert n=0.012 L=14.0' S=0.0143 ' /' Outflow=0.76 cfs 0.063 af Peak Elev=282.71' Inflow=0.76 cfs 0.063 af
Pond 30P: CB-209	15.0" Round Culvert n=0.012 L=14.0' S=0.0143 ' /' Outflow=2.53 cfs 0.231 af Peak Elev=283.13' Inflow=2.53 cfs 0.231 af
Pond 31P: DMH-208	24.0" Round Culvert n=0.012 L=165.0' S=0.0170 ' /' Outflow=14.20 cfs 1.143 af Peak Elev=285.91' Inflow=14.20 cfs 1.143 af
Pond 32P: DMH-209	24.0" Round Culvert n=0.012 L=150.0' S=0.0853 ' /' Outflow=14.20 cfs 1.143 af Peak Elev=298.81' Inflow=14.20 cfs 1.143 af
Pond 33P: CB-210	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 ' /' Outflow=0.35 cfs 0.029 af Peak Elev=298.33' Inflow=0.35 cfs 0.029 af
Pond 34P: CB-211	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 ' /' Outflow=2.81 cfs 0.208 af Peak Elev=299.38' Inflow=2.81 cfs 0.208 af
Pond 35P: DMH-210	12.0" Round Culvert n=0.012 L=322.0' S=0.0565 ' /' Outflow=1.90 cfs 0.142 af Peak Elev=316.50' Inflow=1.90 cfs 0.142 af
Pond 36P: CB-212	12.0" Round Culvert n=0.012 L=13.0' S=0.0231 ' /' Outflow=0.20 cfs 0.017 af Peak Elev=316.24' Inflow=0.20 cfs 0.017 af
Pond 37P: CB-213	12.0" Round Culvert n=0.012 L=13.0' S=0.0231 ' /' Outflow=1.70 cfs 0.125 af Peak Elev=316.83' Inflow=1.70 cfs 0.125 af
Pond 38P: DMH-301	18.0" Round Culvert n=0.012 L=71.0' S=0.0549 ' /' Outflow=7.99 cfs 0.598 af Peak Elev=318.06' Inflow=7.99 cfs 0.598 af
Pond 39P: DMH-302	18.0" Round Culvert n=0.012 L=154.0' S=0.0208 ' /' Outflow=7.99 cfs 0.598 af Peak Elev=321.36' Inflow=7.99 cfs 0.598 af
Pond 40P: CB-301	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 ' /' Outflow=3.09 cfs 0.231 af Peak Elev=321.57' Inflow=3.09 cfs 0.231 af
Pond 41P: CB-302	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 ' /' Outflow=1.60 cfs 0.119 af Peak Elev=320.79' Inflow=1.60 cfs 0.119 af

Pond 42P: DMH-303	12.0" Round Culvert n=0.012 L=129.0' S=0.0636 ' /' Outflow=3.30 cfs 0.248 af Peak Elev=329.62' Inflow=3.30 cfs 0.248 af
Pond 43P: DMH-304	12.0" Round Culvert n=0.012 L=129.0' S=0.0612 ' /' Outflow=3.30 cfs 0.248 af Peak Elev=337.62' Inflow=3.30 cfs 0.248 af
Pond 44P: CB-303	12.0" Round Culvert n=0.012 L=17.0' S=0.0235 ' /' Outflow=1.84 cfs 0.139 af Peak Elev=337.28' Inflow=1.84 cfs 0.139 af
Pond 45P: CB-304	12.0" Round Culvert n=0.012 L=16.0' S=0.0250 ' /' Outflow=1.46 cfs 0.108 af Peak Elev=337.15' Inflow=1.46 cfs 0.108 af
Pond 46P: DMH-218	12.0" Round Culvert n=0.012 L=81.0' S=0.0481 ' /' Outflow=3.26 cfs 0.247 af Peak Elev=333.79' Inflow=3.26 cfs 0.247 af
Pond 47P: CB-220	12.0" Round Culvert n=0.012 L=15.0' S=0.0200 ' /' Outflow=2.40 cfs 0.182 af Peak Elev=333.64' Inflow=2.40 cfs 0.182 af
Pond 48P: CB-221	12.0" Round Culvert n=0.012 L=9.0' S=0.0333 ' /' Outflow=0.86 cfs 0.065 af Peak Elev=333.04' Inflow=0.86 cfs 0.065 af
Pond 49P: DMH-217	12.0" Round Culvert n=0.012 L=147.0' S=0.0463 ' /' Outflow=3.26 cfs 0.247 af Peak Elev=329.79' Inflow=3.26 cfs 0.247 af
Pond 50P: DMH-216	12.0" Round Culvert n=0.012 L=118.0' S=0.0263 ' /' Outflow=3.26 cfs 0.247 af Peak Elev=322.89' Inflow=3.26 cfs 0.247 af
Pond 52P: DMH-215	15.0" Round Culvert n=0.012 L=247.0' S=0.0320 ' /' Outflow=3.98 cfs 0.307 af Peak Elev=319.25' Inflow=3.98 cfs 0.307 af
Pond 53P: CB-219	12.0" Round Culvert n=0.012 L=21.0' S=0.0143 ' /' Outflow=0.36 cfs 0.030 af Peak Elev=318.73' Inflow=0.36 cfs 0.030 af
Pond 54P: CB-218	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 ' /' Outflow=0.36 cfs 0.030 af Peak Elev=318.74' Inflow=0.36 cfs 0.030 af
Pond 55P: DMH-214	18.0" Round Culvert n=0.012 L=95.0' S=0.0442 ' /' Outflow=7.00 cfs 0.535 af Peak Elev=311.63' Inflow=7.00 cfs 0.535 af
Pond 56P: CB-217	12.0" Round Culvert n=0.012 L=20.0' S=0.0150 ' /' Outflow=0.32 cfs 0.026 af Peak Elev=312.51' Inflow=0.32 cfs 0.026 af
Pond 57P: CB-216	12.0" Round Culvert n=0.012 L=11.0' S=0.0273 ' /' Outflow=2.71 cfs 0.202 af Peak Elev=313.52' Inflow=2.71 cfs 0.202 af
Pond 58P: DMH-213	18.0" Round Culvert n=0.012 L=226.0' S=0.0677 ' /' Outflow=7.00 cfs 0.535 af Peak Elev=307.33' Inflow=7.00 cfs 0.535 af
Pond 59P: DMH-212	24.0" Round Culvert n=0.012 L=91.0' S=0.0626 ' /' Outflow=13.14 cfs 0.994 af Peak Elev=291.91' Inflow=13.14 cfs 0.994 af

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Type III 24-hr 25-year Rainfall=5.40"

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Pond 60P: CB-21412.0" Round Culvert n=0.012 L=10.0' S=0.0300 ' Inflow=3.59 cfs 0.267 af
Outflow=3.59 cfs 0.267 af**Pond 61P: CB-215**12.0" Round Culvert n=0.012 L=19.0' S=0.0158 ' Inflow=2.55 cfs 0.192 af
Outflow=2.55 cfs 0.192 af**Pond 62P: DMH-211**24.0" Round Culvert n=0.012 L=144.0' S=0.0479 ' Inflow=13.14 cfs 0.994 af
Outflow=13.14 cfs 0.994 af**Pond 63P: FIELD INLET-202**24.0" Round Culvert n=0.012 L=137.0' S=0.0226 ' Inflow=9.42 cfs 0.764 af
Outflow=9.42 cfs 0.764 af**Pond 66P: CB-222**12.0" Round Culvert n=0.012 L=29.0' S=0.0207 ' Inflow=2.37 cfs 0.193 af
Outflow=2.37 cfs 0.193 af**Pond 71P: FIELD INLET-203**18.0" Round Culvert n=0.012 L=28.0' S=0.0821 ' Inflow=5.38 cfs 0.467 af
Outflow=5.38 cfs 0.467 af**Pond 72P: FIELD INLET-204**18.0" Round Culvert n=0.012 L=50.0' S=0.0460 ' Inflow=1.01 cfs 0.109 af
Outflow=1.01 cfs 0.109 af**Pond 73P: DMH-219**18.0" Round Culvert n=0.012 L=86.0' S=0.0465 ' Inflow=6.34 cfs 0.576 af
Outflow=6.34 cfs 0.576 af**Link DP-A: DESIGN POINT-A**Inflow=31.45 cfs 5.044 af
Primary=31.45 cfs 5.044 af**Link DP-B: DESIGN POINT-B**Inflow=11.96 cfs 1.449 af
Primary=11.96 cfs 1.449 af**Total Runoff Area = 66.257 ac Runoff Volume = 7.884 af Average Runoff Depth = 1.43"**
91.21% Pervious = 60.432 ac 8.79% Impervious = 5.825 ac**6083 - POST**

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Type III 24-hr 25-year Rainfall=5.40"

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Summary for Subcatchment 1S: POST 1

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.034 af, Depth= 3.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,667	98	Paved parking, HSG A
816	39	>75% Grass cover, Good, HSG A
4,483	87	Weighted Average
816		18.20% Pervious Area
3,667		81.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 2S: POST 2

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 0.033 af, Depth= 3.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,554	98	Paved parking, HSG A
809	39	>75% Grass cover, Good, HSG A
4,363	87	Weighted Average
809		18.54% Pervious Area
3,554		81.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 3S: POST 3

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 0.044 af, Depth= 4.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
3,947	98	Paved parking, HSG A			
908	39	>75% Grass cover, Good, HSG A			
632	98	Paved parking, HSG D			
246	80	>75% Grass cover, Good, HSG D			
5,733	88	Weighted Average			
1,154		20.13% Pervious Area			
4,579		79.87% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 4S: POST 4

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 0.053 af, Depth= 4.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,254	98	Paved parking, HSG A
879	39	>75% Grass cover, Good, HSG A
2,244	98	Paved parking, HSG D
319	80	>75% Grass cover, Good, HSG D
6,696	89	Weighted Average
1,198		17.89% Pervious Area
5,498		82.11% Impervious Area
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		Direct Entry,

Summary for Subcatchment 5S: POST 5

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 0.017 af, Depth= 5.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
509	98	Paved parking, HSG A
1,207	98	Paved parking, HSG D
42	80	>75% Grass cover, Good, HSG D
1,758	98	Weighted Average
42		2.39% Pervious Area
1,716		97.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 6S: POST 6

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth= 5.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,283	98	Paved parking, HSG A
2,283		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: POST 7

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.022 af, Depth= 5.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,223	98	Paved parking, HSG A
2,223		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: POST 8

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af, Depth= 5.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,941	98	Paved parking, HSG A
2,941		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: POST 9

Runoff = 1.73 cfs @ 12.16 hrs, Volume= 0.147 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,700	98	Roofs, HSG D
12,013	80	>75% Grass cover, Good, HSG D
2,271	98	Roofs, HSG A
3,638	98	Paved parking, HSG A
6,966	39	>75% Grass cover, Good, HSG A
27,588	75	Weighted Average
18,979	68	79% Pervious Area
8,609	31	21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0					Direct Entry,

Summary for Subcatchment 10S: POST 10

Runoff = 2.26 cfs @ 12.16 hrs, Volume= 0.201 af, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,999	98	Roofs, HSG D
1,658	98	Paved parking, HSG D
413	98	Unconnected pavement, HSG D
16,156	80	>75% Grass cover, Good, HSG D
4,870	98	Roofs, HSG A
3,489	98	Paved parking, HSG A
784	98	Unconnected pavement, HSG A
28,504	39	>75% Grass cover, Good, HSG A
6,315	30	Woods, Good, HSG A
65,188	61	Weighted Average
50,975	78	20% Pervious Area
14,213	21	80% Impervious Area
1,197	8	42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow,
1.6	205	0.0900	2.10		Grass, Short n= 0.150 P2= 3.10"
					Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.7	53	0.0700	1.32		Shallow Concentrated Flow,
					Woodland Kv= 5.0 fps
1.8	152	0.0400	1.40		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	258	0.0080	1.82		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
10.2	718	Total			

Summary for Subcatchment 11S: POST 11

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.033 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,352	98	Paved parking, HSG A
3,352		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: POST 13

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,056	98	Paved parking, HSG A
3,056		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: POST 14

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
2,995	98	Paved parking, HSG A			
2,995		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 15S: POST 15

Runoff = 2.81 cfs @ 12.09 hrs, Volume= 0.208 af, Depth= 3.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,736	98	Roofs, HSG D
7,798	98	Paved parking, HSG D
709	98	Unconnected pavement, HSG D
14,515	80	>75% Grass cover, Good, HSG D
1,051	98	Paved parking, HSG A
285	98	Unconnected pavement, HSG A
1,196	39	>75% Grass cover, Good, HSG A
28,290	86	Weighted Average
15,711		55.54% Pervious Area
12,579		44.46% Impervious Area
994		7.90% Unconnected
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description
6.0		
Direct Entry.		

Summary for Subcatchment 16S: POST 16

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Summary for Subcatchment 18S: POST 18

Runoff = 1.70 cfs @ 12.09 hrs, Volume= 0.125 af, Depth= 3.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
1,536	98	Roofs, HSG D			
3,103	98	Paved parking, HSG D			
626	98	Unconnected pavement, HSG D			
12,214	80	>75% Grass cover, Good, HSG D			
17,479	85	Weighted Average			
12,214		69.88% Pervious Area			
5,265		30.12% Impervious Area			
626		11.89% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 19S: POST 19

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
1,536	98	Roofs, HSG D			
3,103	98	Paved parking, HSG D			
626	98	Unconnected pavement, HSG D			
12,214	80	>75% Grass cover, Good, HSG D			
17,479	85	Weighted Average			
12,214		69.88% Pervious Area			
5,265		30.12% Impervious Area			
626		11.89% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 19S: POST 19

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
1,672	98	Paved parking, HSG D			
1,672		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 20S: POST 20

Runoff = 1.60 cfs @ 12.09 hrs, Volume= 0.119 af, Depth= 3.95"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
836	98	Roofs, HSG D			
3,970	98	Paved parking, HSG D			
1,008	98	Unconnected roofs, HSG D			
9,983	80	>75% Grass cover, Good, HSG D			
15,797	87	Weighted Average			
9,983		63.20% Pervious Area			
5,814		36.80% Impervious Area			
1,008		17.34% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 21S: POST 21

Runoff = 3.09 cfs @ 12.09 hrs, Volume= 0.231 af, Depth= 4.05"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
4,656	98	Roofs, HSG D			
8,878	98	Paved parking, HSG D			
16,275	80	>75% Grass cover, Good, HSG D			
29,809	88	Weighted Average			
16,275		54.60% Pervious Area			
13,534		45.40% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 22S: POST 22

Runoff = 6.44 cfs @ 12.09 hrs, Volume= 0.468 af, Depth= 3.24"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Summary for Subcatchment 23S: POST 23

Runoff = 1.84 cfs @ 12.09 hrs, Volume= 0.139 af, Depth= 4.26"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

56,070	92.46%	Pervious Area			
5,682	7.54%	Impervious Area			
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
6.0					Direct Entry,
Summary for Subcatchment 23S: POST 23					
Runoff	=	1.84 cfs @	12.09 hrs,	Volume=	0.139 af, Depth= 4.26"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs					
Type III 24-hr 25-year Rainfall=5.40"					

Summary for Subcatchment 24S: POST 24

Runoff = 1.46 cfs @ 12.09 hrs, Volume= 0.108 af, Depth= 3.95"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 24S: POST 24

Runoff = 1.46 cfs @ 12.09 hrs, Volume= 0.108 af, Depth= 3.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Type III 24-hr 25-year Rainfall=5.40"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 25S: POST 25

Runoff = 2.40 cfs @ 12.09 hrs, Volume= 0.182 af, Depth= 4.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,925	98	Roofs, HSG D
8,071	98	Paved parking, HSG D
905	98	Unconnected pavement, HSG D
10,386	80	>75% Grass cover, Good, HSG D
22,287	90	Weighted Average

10,386 46.60% Pervious Area
11,901 53.40% Impervious Area
905 7.60% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 26S: POST 26

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 0.065 af, Depth= 4.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
468	98	Roofs, HSG D
3,772	98	Paved parking, HSG D
3,753	80	>75% Grass cover, Good, HSG D
7,993	90	Weighted Average
3,753		46.95% Pervious Area
4,240		53.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 27S: POST 27

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,003	98	Paved parking, HSG D
3,003		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 28S: POST 28

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,037	98	Paved parking, HSG D
3,037		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 29S: POST 29

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.026 af, Depth= 5.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,681	98	Paved parking, HSG D
2,681		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 30S: POST 30

Runoff = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af, Depth= 4.05"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
3,210	98	Roofs, HSG D			
8,847	98	Paved parking, HSG D			
14,062	80	>75% Grass cover, Good, HSG D			
26,119	88	Weighted Average			
14,062		53.84% Pervious Area			
12,057		46.16% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 31S: POST 31

Runoff = 2.55 cfs @ 12.09 hrs, Volume= 0.192 af, Depth= 4.16"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,204	98	Roofs, HSG D
8,044	98	Paved parking, HSG D
1,343	98	Unconnected pavement, HSG D
11,530	80	>75% Grass cover, Good, HSG D
24,121	89	Weighted Average
11,530		47.80% Pervious Area
12,591		52.20% Impervious Area
1,343		10.67% Unconnected
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description

Summary for Subcatchment 32S: POST 32

Runoff = 3.59 cfs @ 12.09 hrs, Volume= 0.267 af, Depth= 3.95"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description		
4,350	98	Roofs, HSG D		
9,063	98	Paved parking, HSG D		
21,986	80	>75% Grass cover, Good, HSG D		
35,399	87	Weighted Average		
21,986		62.11% Pervious Area		
13,413		37.89% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description		
6.0			Direct Entry,	

Summary for Subcatchment 33S: POST 33S

Summary for Subcatchment 33S: POST 33

Runoff = 1.43 cfs @ 12.09 hrs, Volume= 0.111 af, Depth= 4.59"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
1,908	98	Roofs, HSG D			
6,727	98	Paved parking, HSG D			
216	98	Unconnected pavement, HSG D			
106	98	Paved parking, HSG A			
3,719	80	>75% Grass cover, Good, HSG D			
12,676	93	Weighted Average			
3,719		29.34% Pervious Area			
8,957		70.66% Impervious Area			
216		2.41% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 34S: POST 34

Runoff = 3.05 cfs @ 12.09 hrs, Volume= 0.228 af, Depth= 4.05"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
3,227	98	Roofs, HSG D
10,066	98	Paved parking, HSG D
16,160	80	>75% Grass cover, Good, HSG D
29,453	88	Weighted Average
16,160		54.87% Pervious Area
13,293		45.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					

Direct Entry,

Summary for Subcatchment 35S: POST 35

Runoff = 0.58 cfs @ 12.10 hrs, Volume= 0.045 af, Depth= 1.62"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
5,253	80	>75% Grass cover, Good, HSG D
7,605	39	>75% Grass cover, Good, HSG A
1,779	98	Roofs, HSG D
14,637	61	Weighted Average
12,858		87.85% Pervious Area
1,779		12.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					

Direct Entry,

Summary for Subcatchment 36S: POST 36

Runoff = 0.01 cfs @ 12.41 hrs, Volume= 0.004 af, Depth= 0.29"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
7,243	39	>75% Grass cover, Good, HSG A
7,243		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					

Direct Entry,

Summary for Subcatchment 37S: POST 37

Runoff = 0.16 cfs @ 12.13 hrs, Volume= 0.019 af, Depth= 0.74"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
8,816	39	>75% Grass cover, Good, HSG A
3,764	61	>75% Grass cover, Good, HSG B
381	96	Gravel surface, HSG A
352	96	Gravel surface, HSG B
13,313	48	Weighted Average
13,313		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					

Direct Entry,

Summary for Subcatchment 38S: POST 38

Runoff = 0.06 cfs @ 12.31 hrs, Volume= 0.012 af, Depth= 0.47"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
11,263	39	>75% Grass cover, Good, HSG A
1,102	61	>75% Grass cover, Good, HSG B
427	96	Gravel surface, HSG A
12,792	43	Weighted Average
12,792		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					

Direct Entry,

Summary for Subcatchment 39S: POST 39

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 0.065 af, Depth= 3.15"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Adj	Description
810	98		Roofs, HSG D
8,229	80		>75% Grass cover, Good, HSG D
748	98		Unconnected pavement, HSG D
882	39		>75% Grass cover, Good, HSG A
202	98		Unconnected pavement, HSG A
10,871	80	79	Weighted Average, UI Adjusted
9,111			83.81% Pervious Area
1,760			16.19% Impervious Area
950			53.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: POST 40

Runoff = 0.58 cfs @ 12.10 hrs, Volume= 0.043 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Adj	Description
1,018	98		Roofs, HSG D
5,471	80		>75% Grass cover, Good, HSG D
506	98		Unconnected pavement, HSG A
4,230	39		>75% Grass cover, Good, HSG A
11,225	67	66	Weighted Average, UI Adjusted
9,701			86.42% Pervious Area
1,524			13.58% Impervious Area
506			33.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 42S: POST 42

Runoff = 9.42 cfs @ 12.13 hrs, Volume= 0.764 af, Depth= 3.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
91,127	80	>75% Grass cover, Good, HSG D
15,663	77	Woods, Good, HSG D
11,784	98	Roofs, HSG D
174	98	Roofs, HSG A
846	39	>75% Grass cover, Good, HSG A
119,594	81	Weighted Average
107,636		90.00% Pervious Area
11,958		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass, Short n= 0.150 P2= 3.10"
1.0	91	0.0430	1.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.2	72	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	71	0.0980	2.19		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.3	314	0.0500	1.57		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
9.3	598	Total			

Summary for Subcatchment 43S: POST 43 (PERIMETER)

Runoff = 7.73 cfs @ 12.27 hrs, Volume= 1.240 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
153,802	39	>75% Grass cover, Good, HSG A
480,558	30	Woods, Good, HSG A
119,742	55	Woods, Good, HSG B
3,192	98	Roofs, HSG D
110,786	61	>75% Grass cover, Good, HSG B
83,132	77	Woods, Good, HSG D
4,334	96	Gravel surface, HSG A
794	96	Gravel surface, HSG D
3,302	98	Unconnected pavement, HSG A
55,819	80	>75% Grass cover, Good, HSG D
13,460	96	Gravel surface, HSG B
1,028,921	46	Weighted Average
1,022,427		99.37% Pervious Area
6,494		0.63% Impervious Area
3,302		50.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
3.4	337	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	110	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.3	497	Total			

Summary for Subcatchment 44S: POST 44

Runoff = 9.94 cfs @ 12.11 hrs, Volume= 0.897 af, Depth= 1.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
268,531	39	>75% Grass cover, Good, HSG A
20,513	30	Woods, Good, HSG A
6,364	77	Woods, Good, HSG D
140,721	80	>75% Grass cover, Good, HSG D
9,264	98	Roofs, HSG D
445,393	53	Weighted Average
436,129		97.92% Pervious Area
9,264		2.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 46S: POST 45

Runoff = 3.49 cfs @ 12.25 hrs, Volume= 0.552 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description			
241,884	30	Woods, Good, HSG A			
95,851	77	Woods, Good, HSG D			
7,023	96	Gravel surface, HSG A			
2,364	96	Gravel surface, HSG D			
79,566	39	>75% Grass cover, Good, HSG A			
28,376	80	>75% Grass cover, Good, HSG D			
3,192	98	Roofs, HSG D			
458,256	46	Weighted Average			
455,064		99.30% Pervious Area			
3,192		0.70% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1					Direct Entry,

Summary for Subcatchment 65S: POST 12

Runoff = 2.37 cfs @ 12.13 hrs, Volume= 0.193 af, Depth= 2.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
2,804	98	Roofs, HSG D
2,957	98	Paved parking, HSG D
102	98	Unconnected pavement, HSG D
15,718	80	>75% Grass cover, Good, HSG D
2,914	98	Roofs, HSG A
2,970	98	Paved parking, HSG A
18,928	39	>75% Grass cover, Good, HSG A
46,393	68	Weighted Average
34,646		74.68% Pervious Area
11,747		25.32% Impervious Area
102		0.87% Unconnected

Summary for Subcatchment 69S: POST 41

Runoff = 5.38 cfs @ 12.15 hrs, Volume= 0.467 af, Depth= 1.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
4,940	96	Gravel surface, HSG D
16,434	77	Woods, Good, HSG D
25,175	39	>75% Grass cover, Good, HSG A
31,571	30	Woods, Good, HSG A
66,129	80	>75% Grass cover, Good, HSG D
144,249	62	Weighted Average
144,249		100.00% Pervious Area

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Type III 24-hr 25-year Rainfall=5.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	50	0.1000	0.28		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
3.9	392	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.7	113	0.0800	0.71		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
9.6	555	Total			

Summary for Subcatchment 70S: POST 17

Runoff = 1.01 cfs @ 12.12 hrs, Volume= 0.109 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-year Rainfall=5.40"

Area (sf)	CN	Description
473	96	Gravel surface, HSG D
12,174	80	>75% Grass cover, Good, HSG D
3,962	96	Gravel surface, HSG A
1,839	30	Woods, Good, HSG A
52,644	39	>75% Grass cover, Good, HSG A
71,092	49	Weighted Average
71,092	100.00%	Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: INFIL BASIN #1

Inflow Area = 1.590 ac, 27.54% Impervious, Inflow Depth = 0.68" for 25-year event
Inflow = 1.05 cfs @ 12.10 hrs, Volume= 0.090 af
Outflow = 0.10 cfs @ 13.55 hrs, Volume= 0.090 af, Atten= 90%, Lag= 86.9 min
Discarded = 0.10 cfs @ 13.55 hrs, Volume= 0.090 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.22 @ 13.55 hrs Surf.Area= 1,222 sf Storage= 1,739 cfPlug-Flow detention time= 237.5 min calculated for 0.090 af (100% of inflow)
Center-of-Mass det. time= 237.7 min (1,069.1 - 831.4)

Volume	Invert	Avail.Storage	Storage Description
#1	245.00'	34,907 cf	Custom Stage Data (Irregular) listed below (Recalc)

6083 - POST

Prepared by {enter your company name here}

Type III 24-hr 25-year Rainfall=5.40"

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
245.00	111	47.0	0	0	111
246.00	280	66.0	189	189	291
248.00	1,100	152.0	1,290	1,479	1,799
250.00	2,410	245.0	3,425	4,905	4,763
252.00	3,995	283.0	6,339	11,243	6,445
254.00	5,894	332.0	9,828	21,071	8,921
256.00	7,996	370.0	13,837	34,907	11,157

Device Routing Invert Outlet Devices

#1	Discarded	245.00'	2,410 in/hr Exfiltration over Surface area	Conductivity to Groundwater Elevation = 243.00'
#2	Primary	255.00'	10.0' long x 13.0' breadth Broad-Crested Rectangular Weir	
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60	
			Coef. (English) 2.60 2.64 2.70 2.66 2.65 2.66 2.65 2.63	

Discarded OutFlow Max=0.10 cfs @ 13.55 hrs HW=248.22' (Free Discharge)
1=Exfiltration (Controls 0.10 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=245.00' (Free Discharge)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)**Summary for Pond 2P: INFILTRATION BASIN #1-A**

Inflow Area = 0.915 ac, 29.75% Impervious, Inflow Depth = 2.03" for 25-year event
Inflow = 1.91 cfs @ 12.10 hrs, Volume= 0.154 af
Outflow = 0.18 cfs @ 13.36 hrs, Volume= 0.154 af, Atten= 91%, Lag= 75.8 min
Discarded = 0.18 cfs @ 13.36 hrs, Volume= 0.154 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 253.94' @ 13.36 hrs Surf.Area= 2,999 sf Storage= 2,546 cfPlug-Flow detention time= 133.3 min calculated for 0.154 af (100% of inflow)
Center-of-Mass det. time= 133.2 min (959.6 - 826.4)

Volume	Invert	Avail.Storage	Storage Description
#1	253.00'	10,119 cf	Custom Stage Data (Irregular) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
253.00	2,452	186.0	0	0	2,452
254.00	3,038	205.0	2,740	2,740	3,075
255.00	3,680	224.0	3,354	6,094	3,758
256.00	4,380	242.0	4,025	10,119	4,465

Device Routing Invert Outlet Devices

#1	Discarded	253.00'	2,410 in/hr Exfiltration over Surface area	Conductivity to Groundwater Elevation = 243.00'
#2	Primary	255.50'	8.0' long x 10.0' breadth Broad-Crested Rectangular Weir	

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.18 cfs @ 13.36 hrs HW=253.94' (Free Discharge)
1=Exfiltration (Controls 0.18 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=253.00' (Free Discharge)
2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 3P: INFIL. BASIN #2

Inflow Area = 11,859 ac, 34.07% Impervious, Inflow Depth = 3.35" for 25-year event
Inflow = 41.02 cfs @ 12.10 hrs, Volume= 3,310 af
Outflow = 13.35 cfs @ 12.45 hrs, Volume= 3,310 af, Atten= 67%, Lag= 21.1 min
Discarded = 0.81 cfs @ 12.45 hrs, Volume= 0.660 af
Primary = 12.54 cfs @ 12.45 hrs, Volume= 2,650 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 270.85' @ 12.45 hrs Surf.Area= 10,144 sf Storage= 49,892 cf

Plug-Flow detention time= 105.7 min calculated for 3,307 af (100% of inflow)
Center-of-Mass det. time= 105.9 min (912.5 - 806.6)

Volume	Invert	Avail.Storage	Storage Description	#1	263.00'	87,659 cf	Custom Stage Data (Irregular)	Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
263.00	3,149	223.0	0	0	3,149			
264.00	3,847	242.0	3,492	3,492	3,890			
266.00	5,412	280.0	9,215	12,707	5,552			
268.00	7,203	317.0	12,572	25,279	7,408			
270.00	9,220	355.0	16,382	41,661	9,549			
272.00	11,463	393.0	20,642	62,303	11,931			
274.00	13,933	430.0	25,356	87,659	14,490			

Device	Routing	Invert	Outlet Devices
#1	Discarded	263.00'	2,410 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 253.00'
#2	Primary	263.00'	15.0" Round Culvert L= 87.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 263.00' / 262.00' S= 0.0115' /' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#3	Primary	273.00'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64
#4	Device 2	268.70'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	267.00'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#6	Device 2	263.94'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.81 cfs @ 12.45 hrs HW=270.85' (Free Discharge)
1=Exfiltration (Controls 0.81 cfs)

Primary OutFlow Max=12.54 cfs @ 12.45 hrs HW=270.85' (Free Discharge)
2=Culvert (Inlet Controls 12.54 cfs @ 10.22 fps)

4=Sharp-Crested Rectangular Weir (Passes < 160.38 cfs potential flow)
5=Orifice/Grate (Passes < 1.25 cfs potential flow)
6=Orifice/Grate (Passes < 2.44 cfs potential flow)
3=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond 6P: INFIL. BASIN #3

Inflow Area = 3,499 ac, 26.06% Impervious, Inflow Depth = 3.65" for 25-year event
Inflow = 14.43 cfs @ 12.09 hrs, Volume= 1,066 af
Outflow = 6.54 cfs @ 12.28 hrs, Volume= 1,066 af, Atten= 55%, Lag= 11.4 min
Discarded = 0.30 cfs @ 12.28 hrs, Volume= 0.487 af
Primary = 6.24 cfs @ 12.28 hrs, Volume= 0.579 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.87' @ 12.28 hrs Surf.Area= 5,792 sf Storage= 18,122 cf

Plug-Flow detention time= 326.3 min calculated for 1,066 af (100% of inflow)
Center-of-Mass det. time= 325.9 min (1,131.1 - 805.2)

Volume	Invert	Avail.Storage	Storage Description	#1	312.00'	41,148 cf	Custom Stage Data (Irregular)	Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
312.00	1,767	179.0	0	0	1,767			
314.00	3,405	239.0	5,083	5,083	3,806			
316.00	5,012	284.0	8,365	13,449	5,751			
318.00	6,898	329.0	11,860	25,309	8,030			
320.00	8,987	367.0	15,839	41,148	10,247			

Device	Routing	Invert	Outlet Devices
#1	Discarded	312.00'	1,020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 310.00'
#2	Primary	312.00'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 312.00' / 310.00' S= 0.0333' /' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#3	Primary	319.50'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64
#4	Device 2	316.50'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	315.00'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.30 cfs @ 12.28 hrs HW=316.86' (Free Discharge)
1=Exfiltration (Controls 0.30 cfs)

Primary OutFlow Max=6.24 cfs @ 12.28 hrs HW=316.86' (Free Discharge)

2=Culvert (Inlet Controls 6.24 cfs @ 7.94 fps)

4=Sharp-Crested Rectangular Weir (Passes < 11.38 cfs potential flow)

5=Orifice/Grate (Passes < 0.55 cfs potential flow)

3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 7P: CB-103

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 1.66" for 25-year event
Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af
Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.31' @ 12.09 hrs
Flood Elev= 250.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.90'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 247.90' / 247.80' S= 0.0050' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=248.30' (Free Discharge)
1=Culvert (Barrel Controls 0.43 cfs @ 2.16 fps)

Summary for Pond 8P: CB-102

Inflow Area = 0.103 ac, 81.80% Impervious, Inflow Depth = 3.95" for 25-year event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.034 af
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.034 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.18' @ 12.09 hrs
Flood Elev= 249.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.80'	12.0" Round Culvert L= 17.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 246.80' / 246.50' S= 0.0176' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=247.18' (Free Discharge)
1=Culvert (Inlet Controls 0.44 cfs @ 1.65 fps)

Summary for Pond 9P: CB-106

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 2.41" for 25-year event
Inflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af
Outflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
Primary = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.19' @ 12.09 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.50'	12.0" Round Culvert L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 258.50' / 258.20' S= 0.0300' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=259.18' (Free Discharge)
1=Culvert (Inlet Controls 1.27 cfs @ 2.22 fps)

Summary for Pond 10P: CB-107

Inflow Area = 0.132 ac, 79.87% Impervious, Inflow Depth = 4.05" for 25-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

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.14' @ 12.09 hrs
Flood Elev= 262.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.70'	12.0" Round Culvert L= 57.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 258.70' / 254.50' S= 0.0737' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.09 hrs HW=259.13' (Free Discharge)
1=Culvert (Inlet Controls 0.58 cfs @ 1.77 fps)

Summary for Pond 11P: DMH-101

Inflow Area = 0.369 ac, 44.88% Impervious, Inflow Depth = 2.30" for 25-year event
Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.071 af
Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 0.90 cfs @ 12.09 hrs, Volume= 0.071 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 246.96' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.40'	12.0" Round Culvert

L= 105.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 246.40' / 245.00' S= 0.0133 ' S= 0.0133 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=246.95' (Free Discharge)

└─1=Culvert (Inlet Controls 0.88 cfs @ 1.99 fps)

Summary for Pond 12P: DMH-102

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 1.66" for 25-year event
Inflow = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af
Outflow = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 12.09 hrs, Volume= 0.037 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.07' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.70'	12.0" Round Culvert

L= 113.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 247.70' / 246.90' S= 0.0071 ' S= 0.0071 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.09 hrs HW=248.07' (Free Discharge)

└─1=Culvert (Inlet Controls 0.43 cfs @ 1.63 fps)

Summary for Pond 13P: DMH-103

Inflow Area = 0.621 ac, 43.80% Impervious, Inflow Depth = 2.76" for 25-year event
Inflow = 1.88 cfs @ 12.09 hrs, Volume= 0.143 af
Outflow = 1.88 cfs @ 12.09 hrs, Volume= 0.143 af, Atten= 0%, Lag= 0.0 min
Primary = 1.88 cfs @ 12.09 hrs, Volume= 0.143 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 254.89' @ 12.09 hrs
Flood Elev= 262.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	254.00'	12.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 254.00' / 253.00' S= 0.0130 ' S= 0.0130 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=254.88' (Free Discharge)

└─1=Culvert (Inlet Controls 1.85 cfs @ 2.52 fps)

Summary for Pond 14P: DMH-104

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 2.41" for 25-year event
Inflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af
Outflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
Primary = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 258.79' @ 12.09 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.10'	12.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.10' / 255.80' S= 0.0253 ' S= 0.0253 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=258.78' (Free Discharge)

└─1=Culvert (Inlet Controls 1.27 cfs @ 2.22 fps)

Summary for Pond 15P: DMH-201

Inflow Area = 11.568 ac, 33.14% Impervious, Inflow Depth = 3.32" for 25-year event
Inflow = 39.61 cfs @ 12.10 hrs, Volume= 3.198 af
Outflow = 39.61 cfs @ 12.10 hrs, Volume= 3.198 af, Atten= 0%, Lag= 0.0 min
Primary = 39.61 cfs @ 12.10 hrs, Volume= 3.198 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 268.27' @ 12.10 hrs
Flood Elev= 275.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.60'	36.0" Round Culvert

L= 41.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 264.60' / 263.00' S= 0.0390 ' S= 0.0390 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=39.28 cfs @ 12.10 hrs HW=268.24' (Free Discharge)

└─1=Culvert (Inlet Controls 39.28 cfs @ 5.56 fps)

Summary for Pond 16P: DMH-202

Inflow Area = 3.827 ac, 47.80% Impervious, Inflow Depth = 4.09" for 25-year event
Inflow = 17.31 cfs @ 12.09 hrs, Volume= 1.305 af
Outflow = 17.31 cfs @ 12.09 hrs, Volume= 1.305 af, Atten= 0%, Lag= 0.0 min
Primary = 17.31 cfs @ 12.09 hrs, Volume= 1.305 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.99' @ 12.09 hrs
Flood Elev= 283.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.90'	24.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.90' / 271.00' S= 0.0766' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=16.89 cfs @ 12.09 hrs HW=279.90' (Free Discharge)

1=Culvert (Inlet Controls 16.89 cfs @ 5.38 fps)

Summary for Pond 17P: FIELD INLET-201

Inflow Area = 0.250 ac, 16.19% Impervious, Inflow Depth = 3.15" for 25-year event
Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.065 af
Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
Primary = 0.90 cfs @ 12.09 hrs, Volume= 0.065 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.36' @ 12.09 hrs
Flood Elev= 282.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	12.0" Round Culvert

L= 46.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 278.00' S= 0.0174' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=279.35' (Free Discharge)

1=Culvert (Inlet Controls 0.88 cfs @ 1.99 fps)

Summary for Pond 18P: CB-202

Inflow Area = 0.676 ac, 45.13% Impervious, Inflow Depth = 4.05" for 25-year event
Inflow = 3.05 cfs @ 12.09 hrs, Volume= 0.228 af
Outflow = 3.05 cfs @ 12.09 hrs, Volume= 0.228 af, Atten= 0%, Lag= 0.0 min
Primary = 3.05 cfs @ 12.09 hrs, Volume= 0.228 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.44' @ 12.09 hrs
Flood Elev= 282.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.90'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.90' / 278.00' S= 0.0474' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.98 cfs @ 12.09 hrs HW=280.40' (Free Discharge)

1=Culvert (Inlet Controls 2.98 cfs @ 3.80 fps)

Summary for Pond 19P: CB-201

Inflow Area = 0.040 ac, 97.61% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.21 cfs @ 12.09 hrs, Volume= 0.017 af
Outflow = 0.21 cfs @ 12.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.21 cfs @ 12.09 hrs, Volume= 0.017 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.75' @ 12.09 hrs
Flood Elev= 282.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.50'	12.0" Round Culvert

L= 43.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.50' / 278.00' S= 0.0116' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=278.75' (Free Discharge)

1=Culvert (Inlet Controls 0.20 cfs @ 1.34 fps)

Summary for Pond 20P: DMH-203

Inflow Area = 7.741 ac, 25.90% Impervious, Inflow Depth = 2.93" for 25-year event
Inflow = 22.73 cfs @ 12.12 hrs, Volume= 1.893 af
Outflow = 22.73 cfs @ 12.12 hrs, Volume= 1.893 af, Atten= 0%, Lag= 0.0 min
Primary = 22.73 cfs @ 12.12 hrs, Volume= 1.893 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.33' @ 12.12 hrs
Flood Elev= 283.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.60'	30.0" Round Culvert

L= 70.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.60' / 270.50' S= 0.0871' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=22.15 cfs @ 12.12 hrs HW=279.26' (Free Discharge)

1=Culvert (Inlet Controls 22.15 cfs @ 4.51 fps)

Summary for Pond 21P: CB-204

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.26 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.09 hrs, Volume= 0.022 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.38' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0550 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=280.38' (Free Discharge)

└─1=Culvert (Inlet Controls 0.26 cfs @ 1.42 fps)

Summary for Pond 22P: CB-205

Inflow Area = 0.310 ac, 28.18% Impervious, Inflow Depth = 2.54" for 25-year event
Inflow = 0.85 cfs @ 12.09 hrs, Volume= 0.066 af
Outflow = 0.85 cfs @ 12.09 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 12.09 hrs, Volume= 0.066 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.64' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 33.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0333 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.83 cfs @ 12.09 hrs HW=280.63' (Free Discharge)

└─1=Culvert (Inlet Controls 0.83 cfs @ 1.96 fps)

Summary for Pond 23P: DMH-204

Inflow Area = 7.380 ac, 25.29% Impervious, Inflow Depth = 2.94" for 25-year event
Inflow = 21.66 cfs @ 12.12 hrs, Volume= 1.805 af
Outflow = 21.66 cfs @ 12.12 hrs, Volume= 1.805 af, Atten= 0%, Lag= 0.0 min
Primary = 21.66 cfs @ 12.12 hrs, Volume= 1.805 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.09' @ 12.12 hrs
Flood Elev= 285.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.50'	30.0" Round Culvert

L= 192.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 277.50' / 276.70' S= 0.0042 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=21.08 cfs @ 12.12 hrs HW=280.03' (Free Discharge)

└─1=Culvert (Inlet Controls 21.08 cfs @ 4.29 fps)

Summary for Pond 24P: CB-206

Inflow Area = 0.633 ac, 31.21% Impervious, Inflow Depth = 2.78" for 25-year event
Inflow = 1.73 cfs @ 12.16 hrs, Volume= 0.147 af
Outflow = 1.73 cfs @ 12.16 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min
Primary = 1.73 cfs @ 12.16 hrs, Volume= 0.147 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.22' @ 12.16 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	24.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.71 cfs @ 12.16 hrs HW=282.21' (Free Discharge)

└─1=Culvert (Inlet Controls 1.71 cfs @ 2.10 fps)

Summary for Pond 25P: CB-207

Inflow Area = 0.068 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.93' @ 12.09 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=281.92' (Free Discharge)

└─1=Culvert (Inlet Controls 0.34 cfs @ 1.53 fps)

Summary for Pond 26P: DMH-205

Inflow Area = 6.679 ac, 23.97% Impervious, Inflow Depth = 2.93" for 25-year event
Inflow = 19.71 cfs @ 12.12 hrs, Volume= 1.630 af
Outflow = 19.71 cfs @ 12.12 hrs, Volume= 1.630 af, Atten= 0%, Lag= 0.0 min
Primary = 19.71 cfs @ 12.12 hrs, Volume= 1.630 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.60' @ 12.12 hrs
Flood Elev= 286.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.20'	30.0" Round Culvert

L= 151.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.20' / 277.60' S= 0.0040 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=19.20 cfs @ 12.12 hrs HW=280.55' (Free Discharge)

1=Culvert (Barrel Controls 19.20 cfs @ 5.18 fps)

Summary for Pond 27P: DMH-206

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 3.07" for 25-year event
Inflow = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af
Outflow = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af
Primary = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.16' @ 12.12 hrs
Flood Elev= 286.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	279.00'	30.0" Round Culvert

L= 168.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 279.00' / 278.30' S= 0.0042 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.91 cfs @ 12.12 hrs HW=281.12' (Free Discharge)

1=Culvert (Barrel Controls 16.91 cfs @ 5.13 fps)

Summary for Pond 28P: DMH-207

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 3.07" for 25-year event
Inflow = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af
Outflow = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af
Primary = 17.34 cfs @ 12.12 hrs, Volume= 1.437 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.32' @ 12.12 hrs
Flood Elev= 285.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.20'	30.0" Round Culvert

L= 268.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.20' / 279.10' S= 0.0041 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.91 cfs @ 12.12 hrs HW=282.28' (Free Discharge)

1=Culvert (Inlet Controls 16.91 cfs @ 3.88 fps)

Summary for Pond 29P: CB-208

Inflow Area = 0.147 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.063 af
Outflow = 0.76 cfs @ 12.09 hrs, Volume= 0.063 af
Primary = 0.76 cfs @ 12.09 hrs, Volume= 0.063 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.71' @ 12.09 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	12.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=282.70' (Free Discharge)

1=Culvert (Inlet Controls 0.74 cfs @ 1.90 fps)

Summary for Pond 30P: CB-209

Inflow Area = 1.565 ac, 25.24% Impervious, Inflow Depth = 1.77" for 25-year event
Inflow = 2.53 cfs @ 12.15 hrs, Volume= 0.231 af
Outflow = 2.53 cfs @ 12.15 hrs, Volume= 0.231 af
Primary = 2.53 cfs @ 12.15 hrs, Volume= 0.231 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 283.13' @ 12.15 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	15.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 1/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.53 cfs @ 12.15 hrs HW=283.13' (Free Discharge)

1=Culvert (Barrel Controls 2.53 cfs @ 3.59 fps)

Summary for Pond 31P: DMH-208

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 3.51" for 25-year event
Inflow = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af
Outflow = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af
Primary = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 285.91' @ 12.11 hrs
Flood Elev= 289.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.50'	

24.0" Round Culvert
L= 165.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.50' / 280.70' S= 0.0170' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.88 cfs @ 12.11 hrs HW=285.85' (Free Discharge)

1=Culvert (Inlet Controls 13.88 cfs @ 4.42 fps)

Summary for Pond 32P: DMH-210

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 3.51" for 25-year event
Inflow = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af
Outflow = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af, Atten= 0%, Lag= 0.0 min
Primary = 14.20 cfs @ 12.11 hrs, Volume= 1.143 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.81' @ 12.11 hrs
Flood Elev= 301.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	296.40'	

24.0" Round Culvert
L= 150.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 296.40' / 283.60' S= 0.0853' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.88 cfs @ 12.11 hrs HW=298.75' (Free Discharge)

1=Culvert (Inlet Controls 13.88 cfs @ 4.42 fps)

Summary for Pond 33P: CB-210

Inflow Area = 0.067 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.35 cfs @ 12.09 hrs, Volume= 0.029 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.33' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	

12.0" Round Culvert
L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=298.32' (Free Discharge)

1=Culvert (Inlet Controls 0.34 cfs @ 1.53 fps)

Summary for Pond 34P: CB-211

Inflow Area = 0.649 ac, 44.46% Impervious, Inflow Depth = 3.84" for 25-year event
Inflow = 2.81 cfs @ 12.09 hrs, Volume= 0.208 af
Outflow = 2.81 cfs @ 12.09 hrs, Volume= 0.208 af, Atten= 0%, Lag= 0.0 min
Primary = 2.81 cfs @ 12.09 hrs, Volume= 0.208 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 299.38' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	

12.0" Round Culvert
L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.75 cfs @ 12.09 hrs HW=299.35' (Free Discharge)

1=Culvert (Inlet Controls 2.75 cfs @ 3.50 fps)

Summary for Pond 35P: DMH-210

Inflow Area = 0.440 ac, 36.22% Impervious, Inflow Depth = 3.86" for 25-year event
Inflow = 1.90 cfs @ 12.09 hrs, Volume= 0.142 af
Outflow = 1.90 cfs @ 12.09 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 12.09 hrs, Volume= 0.142 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.50' @ 12.09 hrs
Flood Elev= 320.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.60'	

12.0" Round Culvert
L= 322.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 315.60' / 297.40' S= 0.0565' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=316.48' (Free Discharge)

1=Culvert (Inlet Controls 1.85 cfs @ 2.53 fps)

Summary for Pond 36P: CB-212

Inflow Area = 0.038 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af
Outflow = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.09 hrs, Volume= 0.017 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.24' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert

L= 13.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=316.24' (Free Discharge)

└─1=Culvert (Inlet Controls 0.19 cfs @ 1.32 fps)

Summary for Pond 37P: CB-213

Inflow Area = 0.401 ac, 30.12% Impervious, Inflow Depth = 3.74" for 25-year event
Inflow = 1.70 cfs @ 12.09 hrs, Volume= 0.125 af
Outflow = 1.70 cfs @ 12.09 hrs, Volume= 0.125 af
Primary = 1.70 cfs @ 12.09 hrs, Volume= 0.125 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.83' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert

L= 13.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.66 cfs @ 12.09 hrs HW=316.81' (Free Discharge)

└─1=Culvert (Inlet Controls 1.66 cfs @ 2.42 fps)

Summary for Pond 38P: DMH-301

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 4.06" for 25-year event
Inflow = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af
Outflow = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af
Primary = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.06' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.90'	18.0" Round Culvert

L= 71.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 315.90' / 312.00' S= 0.0549' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.80 cfs @ 12.09 hrs HW=318.00' (Free Discharge)

└─1=Culvert (Inlet Controls 7.80 cfs @ 4.41 fps)

Summary for Pond 39P: DMH-302

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 4.06" for 25-year event
Inflow = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af
Outflow = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af
Primary = 7.99 cfs @ 12.09 hrs, Volume= 0.598 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 321.36' @ 12.09 hrs
Flood Elev= 324.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	319.20'	18.0" Round Culvert

L= 154.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 319.20' / 316.00' S= 0.0208' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.80 cfs @ 12.09 hrs HW=321.30' (Free Discharge)

└─1=Culvert (Inlet Controls 7.80 cfs @ 4.41 fps)

Summary for Pond 40P: CB-301

Inflow Area = 0.684 ac, 45.40% Impervious, Inflow Depth = 4.05" for 25-year event
Inflow = 3.09 cfs @ 12.09 hrs, Volume= 0.231 af
Outflow = 3.09 cfs @ 12.09 hrs, Volume= 0.231 af
Primary = 3.09 cfs @ 12.09 hrs, Volume= 0.231 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 321.57' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.02 cfs @ 12.09 hrs HW=321.52' (Free Discharge)

└─1=Culvert (Inlet Controls 3.02 cfs @ 3.84 fps)

Summary for Pond 41P: CB-302

Inflow Area = 0.363 ac, 36.80% Impervious, Inflow Depth = 3.95" for 25-year event
Inflow = 1.60 cfs @ 12.09 hrs, Volume= 0.119 af
Outflow = 1.60 cfs @ 12.09 hrs, Volume= 0.119 af
Primary = 1.60 cfs @ 12.09 hrs, Volume= 0.119 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 320.79' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.57 cfs @ 12.09 hrs HW=320.78' (Free Discharge)

1=Culvert (Inlet Controls 1.57 cfs @ 2.38 fps)

Summary for Pond 42P: DMH-303

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 4.12" for 25-year event
Inflow = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af
Outflow = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af, Atten= 0%, Lag= 0.0 min
Primary = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 329.62' @ 12.09 hrs
Flood Elev= 332.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	327.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 327.90' / 319.70' S= 0.0636' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.22 cfs @ 12.09 hrs HW=329.56' (Free Discharge)

1=Culvert (Inlet Controls 3.22 cfs @ 4.10 fps)

Summary for Pond 43P: DMH-304

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 4.12" for 25-year event
Inflow = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af
Outflow = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af, Atten= 0%, Lag= 0.0 min
Primary = 3.30 cfs @ 12.09 hrs, Volume= 0.248 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.62' @ 12.09 hrs
Flood Elev= 339.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	335.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 335.90' / 328.00' S= 0.0612' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.22 cfs @ 12.09 hrs HW=337.56' (Free Discharge)

1=Culvert (Inlet Controls 3.22 cfs @ 4.10 fps)

Summary for Pond 44P: CB-303

Inflow Area = 0.392 ac, 53.86% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 1.84 cfs @ 12.09 hrs, Volume= 0.139 af
Outflow = 1.84 cfs @ 12.09 hrs, Volume= 0.139 af, Atten= 0%, Lag= 0.0 min
Primary = 1.84 cfs @ 12.09 hrs, Volume= 0.139 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.28' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 17.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0235' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.79 cfs @ 12.09 hrs HW=337.26' (Free Discharge)

1=Culvert (Inlet Controls 1.79 cfs @ 2.49 fps)

Summary for Pond 45P: CB-304

Inflow Area = 0.330 ac, 38.23% Impervious, Inflow Depth = 3.95" for 25-year event
Inflow = 1.46 cfs @ 12.09 hrs, Volume= 0.108 af
Outflow = 1.46 cfs @ 12.09 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.0 min
Primary = 1.46 cfs @ 12.09 hrs, Volume= 0.108 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.15' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0250' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.42 cfs @ 12.09 hrs HW=337.13' (Free Discharge)

1=Culvert (Inlet Controls 1.42 cfs @ 2.30 fps)

Summary for Pond 46P: DMH-218

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af
Outflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.79' @ 12.09 hrs
Flood Elev= 336.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.10'	12.0" Round Culvert

L= 81.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.10' / 328.20' S= 0.0481' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.18 cfs @ 12.09 hrs HW=333.73' (Free Discharge)

└─1=Culvert (Inlet Controls 3.18 cfs @ 4.05 fps)

Summary for Pond 47P: CB-220

Inflow Area = 0.512 ac, 53.40% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 2.40 cfs @ 12.09 hrs, Volume= 0.182 af
Outflow = 2.40 cfs @ 12.09 hrs, Volume= 0.182 af, Atten= 0%, Lag= 0.0 min
Primary = 2.40 cfs @ 12.09 hrs, Volume= 0.182 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.64' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 15.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0200' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.34 cfs @ 12.09 hrs HW=333.61' (Free Discharge)

└─1=Culvert (Inlet Controls 2.34 cfs @ 2.98 fps)

Summary for Pond 48P: CB-221

Inflow Area = 0.183 ac, 53.05% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 0.86 cfs @ 12.09 hrs, Volume= 0.065 af
Outflow = 0.86 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
Primary = 0.86 cfs @ 12.09 hrs, Volume= 0.065 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.04' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 9.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0333' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=333.03' (Free Discharge)

└─1=Culvert (Inlet Controls 0.84 cfs @ 1.96 fps)

Summary for Pond 49P: DMH-217

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af
Outflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 329.79' @ 12.09 hrs
Flood Elev= 332.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	328.10'	12.0" Round Culvert

L= 147.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 328.10' / 321.30' S= 0.0463' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.18 cfs @ 12.09 hrs HW=329.73' (Free Discharge)

└─1=Culvert (Inlet Controls 3.18 cfs @ 4.05 fps)

Summary for Pond 50P: DMH-216

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 4.26" for 25-year event
Inflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af
Outflow = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 12.09 hrs, Volume= 0.247 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 322.89' @ 12.09 hrs
Flood Elev= 325.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	321.20'	12.0" Round Culvert

L= 118.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 321.20' / 318.10' S= 0.0263' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.18 cfs @ 12.09 hrs HW=322.83' (Free Discharge)

└─1=Culvert (Inlet Controls 3.18 cfs @ 4.05 fps)

Summary for Pond 52P: DMH-215

Inflow Area = 0.834 ac, 61.07% Impervious, Inflow Depth = 4.41" for 25-year event
Inflow = 3.98 cfs @ 12.09 hrs, Volume= 0.307 af
Outflow = 3.98 cfs @ 12.09 hrs, Volume= 0.307 af, Atten= 0%, Lag= 0.0 min
Primary = 3.98 cfs @ 12.09 hrs, Volume= 0.307 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 319.25' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	317.90'	15.0" Round Culvert

L= 247.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 317.90' / 310.00' S= 0.0320' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.87 cfs @ 12.09 hrs HW=319.21' (Free Discharge)

└─1=Culvert (Inlet Controls 3.87 cfs @ 3.16 fps)

Summary for Pond 53P: CB-219

Inflow Area = 0.069 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.73' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 21.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0143' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=318.73' (Free Discharge)

└─1=Culvert (Inlet Controls 0.35 cfs @ 1.54 fps)

Summary for Pond 54P: CB-218

Inflow Area = 0.070 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.74' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0158' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=318.73' (Free Discharge)

└─1=Culvert (Inlet Controls 0.35 cfs @ 1.54 fps)

Summary for Pond 55P: DMH-214

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 4.30" for 25-year event
Inflow = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af
Outflow = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min
Primary = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 311.63' @ 12.09 hrs
Flood Elev= 315.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.80'	18.0" Round Culvert

L= 95.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 309.80' / 305.60' S= 0.0442' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.83 cfs @ 12.09 hrs HW=311.58' (Free Discharge)

└─1=Culvert (Inlet Controls 6.83 cfs @ 3.86 fps)

Summary for Pond 56P: CB-217

Inflow Area = 0.062 ac, 100.00% Impervious, Inflow Depth = 5.16" for 25-year event
Inflow = 0.32 cfs @ 12.09 hrs, Volume= 0.026 af
Outflow = 0.32 cfs @ 12.09 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.09 hrs, Volume= 0.026 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.51' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0150' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.09 hrs HW=312.51' (Free Discharge)

└─1=Culvert (Inlet Controls 0.31 cfs @ 1.49 fps)

Summary for Pond 57P: CB-216

Inflow Area = 0.600 ac, 46.16% Impervious, Inflow Depth = 4.05" for 25-year event
Inflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af
Outflow = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 12.09 hrs, Volume= 0.202 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 313.52' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 11.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0273 ' S= 0.0273 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.64 cfs @ 12.09 hrs HW=313.48' (Free Discharge)
1=Culvert (Inlet Controls 2.64 cfs @ 3.37 fps)

Summary for Pond 58P: DMH-213

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 4.30' for 25-year event
Inflow = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af
Outflow = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min
Primary = 7.00 cfs @ 12.09 hrs, Volume= 0.535 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 307.33' @ 12.09 hrs
Flood Elev= 309.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.50'	18.0" Round Culvert

L= 226.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 305.50' / 290.20' S= 0.0677 ' S= 0.0677 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.83 cfs @ 12.09 hrs HW=307.28' (Free Discharge)
1=Culvert (Inlet Controls 6.83 cfs @ 3.86 fps)

Summary for Pond 59P: DMH-212

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 4.17' for 25-year event
Inflow = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af
Outflow = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af, Atten= 0%, Lag= 0.0 min
Primary = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.91' @ 12.09 hrs
Flood Elev= 294.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	289.70'	24.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 289.70' / 284.00' S= 0.0626 ' S= 0.0626 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=12.83 cfs @ 12.09 hrs HW=291.85' (Free Discharge)
1=Culvert (Inlet Controls 12.83 cfs @ 4.08 fps)

Summary for Pond 60P: CB-214

Inflow Area = 0.813 ac, 37.89% Impervious, Inflow Depth = 3.95' for 25-year event
Inflow = 3.59 cfs @ 12.09 hrs, Volume= 0.267 af
Outflow = 3.59 cfs @ 12.09 hrs, Volume= 0.267 af, Atten= 0%, Lag= 0.0 min
Primary = 3.59 cfs @ 12.09 hrs, Volume= 0.267 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 292.45' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0300 ' S= 0.0300 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.51 cfs @ 12.09 hrs HW=292.38' (Free Discharge)
1=Culvert (Inlet Controls 3.51 cfs @ 4.47 fps)

Summary for Pond 61P: CB-215

Inflow Area = 0.554 ac, 52.20% Impervious, Inflow Depth = 4.16' for 25-year event
Inflow = 2.55 cfs @ 12.09 hrs, Volume= 0.192 af
Outflow = 2.55 cfs @ 12.09 hrs, Volume= 0.192 af, Atten= 0%, Lag= 0.0 min
Primary = 2.55 cfs @ 12.09 hrs, Volume= 0.192 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 291.73' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0158 ' S= 0.0158 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.49 cfs @ 12.09 hrs HW=291.69' (Free Discharge)
1=Culvert (Inlet Controls 2.49 cfs @ 3.17 fps)

Summary for Pond 62P: DMH-211

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 4.17' for 25-year event
Inflow = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af
Outflow = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af, Atten= 0%, Lag= 0.0 min
Primary = 13.14 cfs @ 12.09 hrs, Volume= 0.994 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 286.11' @ 12.09 hrs
Flood Elev= 288.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.90'	

24.0" Round Culvert

L= 144.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.90' / 277.00' S= 0.0479' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=12.83 cfs @ 12.09 hrs HW=286.05' (Free Discharge)

1=Culvert (Inlet Controls 12.83 cfs @ 4.08 fps)

Summary for Pond 63P: FIELD INLET-202

Inflow Area = 2.746 ac, 10.00% Impervious, Inflow Depth = 3.34" for 25-year event
Inflow = 9.42 cfs @ 12.13 hrs, Volume= 0.764 af
Outflow = 9.42 cfs @ 12.13 hrs, Volume= 0.764 af, Atten= 0%, Lag= 0.0 min
Primary = 9.42 cfs @ 12.13 hrs, Volume= 0.764 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 302.43' @ 12.13 hrs
Flood Elev= 304.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	300.80'	

24.0" Round Culvert

L= 137.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 300.80' / 297.70' S= 0.0226' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=9.23 cfs @ 12.13 hrs HW=302.41' (Free Discharge)

1=Culvert (Inlet Controls 9.23 cfs @ 3.41 fps)

Summary for Pond 66P: CB-222

Inflow Area = 1.065 ac, 25.32% Impervious, Inflow Depth = 2.17" for 25-year event
Inflow = 2.37 cfs @ 12.13 hrs, Volume= 0.193 af
Outflow = 2.37 cfs @ 12.13 hrs, Volume= 0.193 af, Atten= 0%, Lag= 0.0 min
Primary = 2.37 cfs @ 12.13 hrs, Volume= 0.193 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 283.53' @ 12.13 hrs
Flood Elev= 286.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.40'	

12.0" Round Culvert

L= 29.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.40' / 281.80' S= 0.0207' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.32 cfs @ 12.13 hrs HW=283.51' (Free Discharge)

1=Culvert (Inlet Controls 2.32 cfs @ 2.96 fps)

Summary for Pond 71P: FIELD INLET-203

Inflow Area = 3.312 ac, 0.00% Impervious, Inflow Depth = 1.69" for 25-year event
Inflow = 5.38 cfs @ 12.15 hrs, Volume= 0.467 af
Outflow = 5.38 cfs @ 12.15 hrs, Volume= 0.467 af, Atten= 0%, Lag= 0.0 min
Primary = 5.38 cfs @ 12.15 hrs, Volume= 0.467 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.18' @ 12.15 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	

18.0" Round Culvert

L= 28.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0821' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.38 cfs @ 12.15 hrs HW=280.18' (Free Discharge)

1=Culvert (Inlet Controls 5.38 cfs @ 3.16 fps)

Summary for Pond 72P: FIELD INLET-204

Inflow Area = 1.632 ac, 0.00% Impervious, Inflow Depth = 0.80" for 25-year event
Inflow = 1.01 cfs @ 12.12 hrs, Volume= 0.109 af
Outflow = 1.01 cfs @ 12.12 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.01 cfs @ 12.12 hrs, Volume= 0.109 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.31' @ 12.12 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	

18.0" Round Culvert

L= 50.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0460' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.97 cfs @ 12.12 hrs HW=279.30' (Free Discharge)

1=Culvert (Inlet Controls 0.97 cfs @ 1.89 fps)

Summary for Pond 73P: DMH-219

Inflow Area = 4.944 ac, 0.00% Impervious, Inflow Depth = 1.40" for 25-year event
Inflow = 6.34 cfs @ 12.15 hrs, Volume= 0.576 af
Outflow = 6.34 cfs @ 12.15 hrs, Volume= 0.576 af, Atten= 0%, Lag= 0.0 min
Primary = 6.34 cfs @ 12.15 hrs, Volume= 0.576 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 277.64' @ 12.15 hrs
Flood Elev= 284.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.00'	18.0" Round Culvert

L= 86.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.00' / 272.00' S= 0.0465' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.31 cfs @ 12.15 hrs HW=277.63' (Free Discharge)
1=Culvert (Inlet Controls 6.31 cfs @ 3.57 fps)

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 45.512 ac, 12.17% Impervious, Inflow Depth = 1.33" for 25-year event
Inflow = 31.45 cfs @ 12.22 hrs, Volume= 5.044 af
Primary = 31.45 cfs @ 12.22 hrs, Volume= 5.044 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 20.745 ac, 1.38% Impervious, Inflow Depth = 0.84" for 25-year event
Inflow = 11.96 cfs @ 12.14 hrs, Volume= 1.449 af
Primary = 11.96 cfs @ 12.14 hrs, Volume= 1.449 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: POST 1	Runoff Area=4,483 sf 81.80% Impervious Runoff Depth=5.48" Tc=6.0 min CN=87 Runoff=0.62 cfs 0.047 af
Subcatchment2S: POST 2	Runoff Area=4,363 sf 81.46% Impervious Runoff Depth=5.48" Tc=6.0 min CN=87 Runoff=0.61 cfs 0.046 af
Subcatchment3S: POST 3	Runoff Area=5,733 sf 79.87% Impervious Runoff Depth=5.59" Tc=6.0 min CN=88 Runoff=0.81 cfs 0.061 af
Subcatchment4S: POST 4	Runoff Area=6,696 sf 82.11% Impervious Runoff Depth=5.71" Tc=6.0 min CN=89 Runoff=0.96 cfs 0.073 af
Subcatchment5S: POST 5	Runoff Area=1,758 sf 97.61% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af
Subcatchment6S: POST 6	Runoff Area=2,283 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.35 cfs 0.030 af
Subcatchment7S: POST 7	Runoff Area=2,223 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.34 cfs 0.029 af
Subcatchment8S: POST 8	Runoff Area=2,941 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.45 cfs 0.038 af
Subcatchment9S: POST 9	Runoff Area=27,588 sf 31.21% Impervious Runoff Depth=4.15" Tc=11.0 min CN=75 Runoff=2.59 cfs 0.219 af
Subcatchment10S: POST 10	Runoff Area=65,188 sf 21.80% Impervious Runoff Depth=2.70" Flow Length=718' Tc=10.2 min CN=61 Runoff=3.97 cfs 0.337 af
Subcatchment11S: POST 11	Runoff Area=3,352 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.52 cfs 0.043 af
Subcatchment13S: POST 13	Runoff Area=3,056 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.47 cfs 0.040 af
Subcatchment14S: POST 14	Runoff Area=2,995 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.46 cfs 0.039 af
Subcatchment15S: POST 15	Runoff Area=28,290 sf 44.46% Impervious Runoff Depth=5.37" Tc=6.0 min CN=86 Runoff=3.86 cfs 0.290 af
Subcatchment16S: POST 16	Runoff Area=2,911 sf 100.00% Impervious Runoff Depth=6.76" Tc=6.0 min CN=98 Runoff=0.45 cfs 0.038 af
Subcatchment18S: POST 18	Runoff Area=17,479 sf 30.12% Impervious Runoff Depth=5.25" Tc=6.0 min CN=85 Runoff=2.35 cfs 0.176 af

Subcatchment19S: POST 19	Runoff Area=1,672 sf Tc=6.0 min CN=98 Runoff=0.26 cfs 0.022 af
Subcatchment20S: POST 20	Runoff Area=15,797 sf Tc=6.0 min CN=87 Runoff=2.19 cfs 0.166 af
Subcatchment21S: POST 21	Runoff Area=29,809 sf Tc=6.0 min CN=88 Runoff=4.19 cfs 0.319 af
Subcatchment22S: POST 22	Runoff Area=75,352 sf Tc=6.0 min CN=80 Runoff=9.23 cfs 0.677 af
Subcatchment23S: POST 23	Runoff Area=17,079 sf Tc=6.0 min CN=90 Runoff=2.47 cfs 0.190 af
Subcatchment24S: POST 24	Runoff Area=14,367 sf Tc=6.0 min CN=87 Runoff=1.99 cfs 0.151 af
Subcatchment25S: POST 25	Runoff Area=22,287 sf Tc=6.0 min CN=90 Runoff=3.22 cfs 0.248 af
Subcatchment26S: POST 26	Runoff Area=7,993 sf Tc=6.0 min CN=90 Runoff=1.15 cfs 0.089 af
Subcatchment27S: POST 27	Runoff Area=3,003 sf Tc=6.0 min CN=98 Runoff=0.46 cfs 0.039 af
Subcatchment28S: POST 28	Runoff Area=3,037 sf Tc=6.0 min CN=98 Runoff=0.47 cfs 0.039 af
Subcatchment29S: POST 29	Runoff Area=2,681 sf Tc=6.0 min CN=98 Runoff=0.41 cfs 0.035 af
Subcatchment30S: POST 30	Runoff Area=26,119 sf Tc=6.0 min CN=88 Runoff=3.68 cfs 0.279 af
Subcatchment31S: POST 31	Runoff Area=24,121 sf Tc=6.0 min CN=89 Runoff=3.44 cfs 0.263 af
Subcatchment32S: POST 32	Runoff Area=35,399 sf Tc=6.0 min CN=87 Runoff=4.91 cfs 0.371 af
Subcatchment33S: POST 33	Runoff Area=12,676 sf Tc=6.0 min CN=93 Runoff=1.89 cfs 0.150 af
Subcatchment34S: POST 34	Runoff Area=29,453 sf Tc=6.0 min CN=88 Runoff=4.14 cfs 0.315 af
Subcatchment35S: POST 35	Runoff Area=14,637 sf Tc=6.0 min CN=81 Runoff=1.02 cfs 0.076 af

Subcatchment36S: POST 36	Runoff Area=7,243 sf Tc=6.0 min CN=39 Runoff=0.07 cfs 0.011 af
Subcatchment37S: POST 37	Runoff Area=13,313 sf Tc=6.0 min CN=48 Runoff=0.44 cfs 0.038 af
Subcatchment38S: POST 38	Runoff Area=12,792 sf Tc=6.0 min CN=43 Runoff=0.25 cfs 0.026 af
Subcatchment39S: POST 39	Runoff Area=10,871 sf Tc=6.0 min CN=79 Runoff=1.30 cfs 0.095 af
Subcatchment40S: POST 40	Runoff Area=11,225 sf Tc=6.0 min CN=66 Runoff=0.94 cfs 0.069 af
Subcatchment42S: POST 42	Runoff Area=119,594 sf Flow Length=598' Tc=9.3 min CN=81 Runoff=13.42 cfs 1.099 af
Subcatchment43S: POST 43	Runoff Area=1,028,921 sf Flow Length=497' Tc=11.3 min CN=46 Runoff=23.43 cfs 2.599 af
Subcatchment44S: POST 44	Runoff Area=445,393 sf Tc=6.0 min CN=53 Runoff=20.90 cfs 1.651 af
Subcatchment46S: POST 45	Runoff Area=458,256 sf Tc=10.1 min CN=46 Runoff=10.92 cfs 1.158 af
Subcatchment65S: POST 12	Runoff Area=46,393 sf Flow Length=529' Tc=8.6 min CN=68 Runoff=3.79 cfs 0.303 af
Subcatchment69S: POST 41	Runoff Area=144,249 sf Flow Length=555' Tc=9.6 min CN=62 Runoff=9.29 cfs 0.773 af
Subcatchment70S: POST 17	Runoff Area=71,092 sf Tc=6.0 min CN=49 Runoff=2.54 cfs 0.215 af
Pond 1P: INFIL. BASIN #1	Peak Elev=249.02' Discarded=0.14 cfs 0.141 af Primary=0.00 cfs 0.000 af Storage=2,903 cf Inflow=1.72 cfs 0.141 af Outflow=0.14 cfs 0.141 af
Pond 2P: INFILTRATIONBASIN #1-A	Peak Elev=254.55' Discarded=0.21 cfs 0.236 af Primary=0.00 cfs 0.000 af Storage=4,509 cf Inflow=3.02 cfs 0.236 af Outflow=0.21 cfs 0.236 af
Pond 3P: INFIL. BASIN #2	Peak Elev=273.00' Discarded=1.06 cfs 0.777 af Primary=14.28 cfs 3.940 af Storage=74,318 cf Inflow=58.06 cfs 4.717 af Outflow=15.34 cfs 4.717 af
Pond 6P: INFIL. BASIN #3	Peak Elev=317.96' Discarded=0.38 cfs 0.525 af Primary=6.98 cfs 0.977 af Storage=25,059 cf Inflow=20.07 cfs 1.502 af Outflow=7.36 cfs 1.502 af
Pond 7P: CB-103	Peak Elev=248.41' 12.0" Round Culvert n=0.012 L=20.0' S=0.0050 /' Inflow=0.66 cfs 0.056 af Outflow=0.66 cfs 0.056 af

Pond 8P: CB-102	12.0" Round Culvert n=0.012 L=17.0' S=0.0176 '/' Outflow=0.62 cfs 0.047 af Peak Elev=247.25' Inflow=0.62 cfs 0.047 af
Pond 9P: CB-106	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Outflow=1.97 cfs 0.149 af Peak Elev=259.43' Inflow=1.97 cfs 0.149 af
Pond 10P: CB-107	12.0" Round Culvert n=0.012 L=57.0' S=0.0737 '/' Outflow=0.81 cfs 0.061 af Peak Elev=259.22' Inflow=0.81 cfs 0.061 af
Pond 11P: DMH-101	12.0" Round Culvert n=0.012 L=105.0' S=0.0133 '/' Outflow=1.28 cfs 0.103 af Peak Elev=247.09' Inflow=1.28 cfs 0.103 af
Pond 12P: DMH-102	12.0" Round Culvert n=0.012 L=113.0' S=0.0071 '/' Outflow=0.66 cfs 0.056 af Peak Elev=248.17' Inflow=0.66 cfs 0.056 af
Pond 13P: DMH-103	12.0" Round Culvert n=0.012 L=77.0' S=0.0130 '/' Outflow=2.78 cfs 0.210 af Peak Elev=255.37' Inflow=2.78 cfs 0.210 af
Pond 14P: DMH-104	12.0" Round Culvert n=0.012 L=91.0' S=0.0253 '/' Outflow=1.97 cfs 0.149 af Peak Elev=259.03' Inflow=1.97 cfs 0.149 af
Pond 15P: DMH-201	36.0" Round Culvert n=0.012 L=41.0' S=0.0390 '/' Outflow=56.20 cfs 4.567 af Peak Elev=270.47' Inflow=56.20 cfs 4.567 af
Pond 16P: DMH-202	24.0" Round Culvert n=0.012 L=77.0' S=0.0766 '/' Outflow=23.46 cfs 1.797 af Peak Elev=281.75' Inflow=23.46 cfs 1.797 af
Pond 17P: FIELD INLET-201	12.0" Round Culvert n=0.012 L=46.0' S=0.0174 '/' Outflow=1.30 cfs 0.095 af Peak Elev=279.49' Inflow=1.30 cfs 0.095 af
Pond 18P: CB-202	12.0" Round Culvert n=0.012 L=19.0' S=0.0474 '/' Outflow=4.14 cfs 0.315 af Peak Elev=281.32' Inflow=4.14 cfs 0.315 af
Pond 19P: CB-201	12.0" Round Culvert n=0.012 L=43.0' S=0.0116 '/' Outflow=0.27 cfs 0.023 af Peak Elev=278.79' Inflow=0.27 cfs 0.023 af
Pond 20P: DMH-203	30.0" Round Culvert n=0.012 L=70.0' S=0.0871 '/' Outflow=33.34 cfs 2.770 af Peak Elev=281.03' Inflow=33.34 cfs 2.770 af
Pond 21P: CB-204	12.0" Round Culvert n=0.012 L=20.0' S=0.0550 '/' Outflow=0.34 cfs 0.029 af Peak Elev=280.43' Inflow=0.34 cfs 0.029 af
Pond 22P: CB-205	12.0" Round Culvert n=0.012 L=33.0' S=0.0333 '/' Outflow=1.29 cfs 0.098 af Peak Elev=280.79' Inflow=1.29 cfs 0.098 af
Pond 23P: DMH-204	30.0" Round Culvert n=0.012 L=192.0' S=0.0042 '/' Outflow=31.77 cfs 2.643 af Peak Elev=281.64' Inflow=31.77 cfs 2.643 af
Pond 24P: CB-206	24.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=2.59 cfs 0.219 af Peak Elev=282.36' Inflow=2.59 cfs 0.219 af

Pond 25P: CB-207	12.0" Round Culvert n=0.012 L=16.0' S=0.0188 '/' Outflow=0.45 cfs 0.038 af Peak Elev=281.98' Inflow=0.45 cfs 0.038 af
Pond 26P: DMH-205	30.0" Round Culvert n=0.012 L=151.0' S=0.0040 '/' Outflow=28.90 cfs 2.386 af Peak Elev=281.84' Inflow=28.90 cfs 2.386 af
Pond 27P: DMH-206	30.0" Round Culvert n=0.012 L=168.0' S=0.0042 '/' Outflow=25.09 cfs 2.083 af Peak Elev=282.05' Inflow=25.09 cfs 2.083 af
Pond 28P: DMH-207	30.0" Round Culvert n=0.012 L=268.0' S=0.0041 '/' Outflow=25.09 cfs 2.083 af Peak Elev=283.25' Inflow=25.09 cfs 2.083 af
Pond 29P: CB-208	12.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=0.99 cfs 0.083 af Peak Elev=282.79' Inflow=0.99 cfs 0.083 af
Pond 30P: CB-209	15.0" Round Culvert n=0.012 L=14.0' S=0.0143 '/' Outflow=4.33 cfs 0.376 af Peak Elev=283.68' Inflow=4.33 cfs 0.376 af
Pond 31P: DMH-208	24.0" Round Culvert n=0.012 L=165.0' S=0.0170 '/' Outflow=19.99 cfs 1.625 af Peak Elev=287.30' Inflow=19.99 cfs 1.625 af
Pond 32P: DMH-209	24.0" Round Culvert n=0.012 L=150.0' S=0.0853 '/' Outflow=19.99 cfs 1.625 af Peak Elev=300.20' Inflow=19.99 cfs 1.625 af
Pond 33P: CB-210	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=0.45 cfs 0.038 af Peak Elev=298.38' Inflow=0.45 cfs 0.038 af
Pond 34P: CB-211	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=3.86 cfs 0.290 af Peak Elev=300.17' Inflow=3.86 cfs 0.290 af
Pond 35P: DMH-210	12.0" Round Culvert n=0.012 L=322.0' S=0.0565 '/' Outflow=2.61 cfs 0.197 af Peak Elev=316.86' Inflow=2.61 cfs 0.197 af
Pond 36P: CB-212	12.0" Round Culvert n=0.012 L=13.0' S=0.0231 '/' Outflow=0.26 cfs 0.022 af Peak Elev=316.28' Inflow=0.26 cfs 0.022 af
Pond 37P: CB-213	12.0" Round Culvert n=0.012 L=12.0' S=0.0231 '/' Outflow=2.35 cfs 0.176 af Peak Elev=317.12' Inflow=2.35 cfs 0.176 af
Pond 38P: DMH-301	18.0" Round Culvert n=0.012 L=71.0' S=0.0549 '/' Outflow=10.85 cfs 0.825 af Peak Elev=319.25' Inflow=10.85 cfs 0.825 af
Pond 39P: DMH-302	18.0" Round Culvert n=0.012 L=154.0' S=0.0208 '/' Outflow=10.85 cfs 0.825 af Peak Elev=322.55' Inflow=10.85 cfs 0.825 af
Pond 40P: CB-301	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=4.19 cfs 0.319 af Peak Elev=322.47' Inflow=4.19 cfs 0.319 af
Pond 41P: CB-302	12.0" Round Culvert n=0.012 L=12.0' S=0.0250 '/' Outflow=2.19 cfs 0.166 af Peak Elev=321.04' Inflow=2.19 cfs 0.166 af

Pond 42P: DMH-303	12.0" Round Culvert n=0.012 L=129.0' S=0.0636 '/' Inflow=4.46 cfs 0.341 af Peak Elev=330.62' Outflow=4.46 cfs 0.341 af
Pond 43P: DMH-304	12.0" Round Culvert n=0.012 L=129.0' S=0.0612 '/' Inflow=4.46 cfs 0.341 af Peak Elev=338.62' Outflow=4.46 cfs 0.341 af
Pond 44P: CB-303	12.0" Round Culvert n=0.012 L=17.0' S=0.0235 '/' Inflow=2.47 cfs 0.190 af Peak Elev=337.58' Outflow=2.47 cfs 0.190 af
Pond 45P: CB-304	12.0" Round Culvert n=0.012 L=16.0' S=0.0250 '/' Inflow=1.99 cfs 0.151 af Peak Elev=337.34' Outflow=1.99 cfs 0.151 af
Pond 46P: DMH-218	12.0" Round Culvert n=0.012 L=81.0' S=0.0481 '/' Inflow=4.37 cfs 0.337 af Peak Elev=334.74' Outflow=4.37 cfs 0.337 af
Pond 47P: CB-220	12.0" Round Culvert n=0.012 L=15.0' S=0.0200 '/' Inflow=3.22 cfs 0.248 af Peak Elev=334.16' Outflow=3.22 cfs 0.248 af
Pond 48P: CB-221	12.0" Round Culvert n=0.012 L=9.0' S=0.0333 '/' Inflow=1.15 cfs 0.089 af Peak Elev=333.14' Outflow=1.15 cfs 0.089 af
Pond 49P: DMH-217	12.0" Round Culvert n=0.012 L=147.0' S=0.0463 '/' Inflow=4.37 cfs 0.337 af Peak Elev=330.74' Outflow=4.37 cfs 0.337 af
Pond 50P: DMH-216	12.0" Round Culvert n=0.012 L=118.0' S=0.0263 '/' Inflow=4.37 cfs 0.337 af Peak Elev=323.84' Outflow=4.37 cfs 0.337 af
Pond 52P: DMH-215	15.0" Round Culvert n=0.012 L=247.0' S=0.0320 '/' Inflow=5.30 cfs 0.415 af Peak Elev=319.81' Outflow=5.30 cfs 0.415 af
Pond 53P: CB-219	12.0" Round Culvert n=0.012 L=21.0' S=0.0143 '/' Inflow=0.46 cfs 0.039 af Peak Elev=318.78' Outflow=0.46 cfs 0.039 af
Pond 54P: CB-218	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Inflow=0.47 cfs 0.039 af Peak Elev=318.79' Outflow=0.47 cfs 0.039 af
Pond 55P: DMH-214	18.0" Round Culvert n=0.012 L=95.0' S=0.0442 '/' Inflow=9.39 cfs 0.730 af Peak Elev=312.50' Outflow=9.39 cfs 0.730 af
Pond 56P: CB-217	12.0" Round Culvert n=0.012 L=20.0' S=0.0150 '/' Inflow=0.41 cfs 0.035 af Peak Elev=312.56' Outflow=0.41 cfs 0.035 af
Pond 57P: CB-216	12.0" Round Culvert n=0.012 L=11.0' S=0.0273 '/' Inflow=3.68 cfs 0.279 af Peak Elev=314.21' Outflow=3.68 cfs 0.279 af
Pond 58P: DMH-213	18.0" Round Culvert n=0.012 L=226.0' S=0.0677 '/' Inflow=9.39 cfs 0.730 af Peak Elev=308.20' Outflow=9.39 cfs 0.730 af
Pond 59P: DMH-212	24.0" Round Culvert n=0.012 L=91.0' S=0.0626 '/' Inflow=17.74 cfs 1.364 af Peak Elev=292.90' Outflow=17.74 cfs 1.364 af

Pond 60P: CB-214	12.0" Round Culvert n=0.012 L=10.0' S=0.0300 '/' Inflow=4.91 cfs 0.371 af Peak Elev=293.70' Outflow=4.91 cfs 0.371 af
Pond 61P: CB-215	12.0" Round Culvert n=0.012 L=19.0' S=0.0158 '/' Inflow=3.44 cfs 0.263 af Peak Elev=292.32' Outflow=3.44 cfs 0.263 af
Pond 62P: DMH-211	24.0" Round Culvert n=0.012 L=144.0' S=0.0479 '/' Inflow=17.74 cfs 1.364 af Peak Elev=287.10' Outflow=17.74 cfs 1.364 af
Pond 63P: FIELD INLET-202	24.0" Round Culvert n=0.012 L=137.0' S=0.0226 '/' Inflow=13.42 cfs 1.099 af Peak Elev=303.06' Outflow=13.42 cfs 1.099 af
Pond 66P: CB-222	12.0" Round Culvert n=0.012 L=29.0' S=0.0207 '/' Inflow=3.79 cfs 0.303 af Peak Elev=284.51' Outflow=3.79 cfs 0.303 af
Pond 71P: FIELD INLET-203	18.0" Round Culvert n=0.012 L=28.0' S=0.0821 '/' Inflow=9.29 cfs 0.773 af Peak Elev=281.46' Outflow=9.29 cfs 0.773 af
Pond 72P: FIELD INLET-204	18.0" Round Culvert n=0.012 L=50.0' S=0.0460 '/' Inflow=2.54 cfs 0.215 af Peak Elev=279.65' Outflow=2.54 cfs 0.215 af
Pond 73P: DMH-219	18.0" Round Culvert n=0.012 L=86.0' S=0.0465 '/' Inflow=11.60 cfs 0.988 af Peak Elev=279.73' Outflow=11.60 cfs 0.988 af
Link DP-A: DESIGN POINT-A	Inflow=54.10 cfs 8.504 af Primary=54.10 cfs 8.504 af
Link DP-B: DESIGN POINT-B	Inflow=30.06 cfs 2.809 af Primary=30.06 cfs 2.809 af
Total Runoff Area = 66.257 ac Runoff Volume = 12.992 af Average Runoff Depth = 2.35" 91.21% Pervious = 60.432 ac 8.79% Impervious = 5.825 ac	

Summary for Subcatchment 1S: POST 1

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 0.047 af, Depth= 5.48"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
3,667	98	Paved parking, HSG A			
816	39	>75% Grass cover, Good, HSG A			
4,483	87	Weighted Average			
816		18.20% Pervious Area			
3,667		81.80% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 2S: POST 2

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.046 af, Depth= 5.48"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
3,554	98	Paved parking, HSG A			
809	39	>75% Grass cover, Good, HSG A			
4,363	87	Weighted Average			
809		18.54% Pervious Area			
3,554		81.46% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 3S: POST 3

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 0.061 af, Depth= 5.59"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Summary for Subcatchment 4S: POST 4

Runoff = 0.96 cfs @ 12.09 hrs, Volume= 0.073 af, Depth= 5.71"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description		
3,254		98	Paved parking, HSG A		
879		39	>75% Grass cover, Good, HSG A		
2,244		98	Paved parking, HSG D		
319		80	>75% Grass cover, Good, HSG D		
6,696		89	Weighted Average		
1,198			17.89% Pervious Area		
5,498			82.11% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 5S: POST 5

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth= 6.76"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
509	98	Paved parking, HSG A
1,207	98	Paved parking, HSG D
42	80	>75% Grass cover, Good, HSG D
1,758	98	Weighted Average
42		2.39% Pervious Area
1,716		97.61% Impervious Area

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Type III 24-hr 100-year Rainfall=7.00"

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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: POST 6

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 0.030 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
2,283	98	Paved parking, HSG A			
2,283		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 7S: POST 7

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
2,223	98	Paved parking, HSG A			
2,223		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: POST 8

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
2,941	98	Paved parking, HSG A
2,941		100.00% Impervious Area

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Type III 24-hr 100-year Rainfall=7.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 9S: POST 9

Runoff = 2.59 cfs @ 12.16 hrs, Volume= 0.219 af, Depth= 4.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
2,700	98	Roofs, HSG D
12,013	80	>75% Grass cover, Good, HSG D
2,271	98	Roofs, HSG A
3,638	98	Paved parking, HSG A
6,966	39	>75% Grass cover, Good, HSG A
27,588	75	Weighted Average
18,979		68.79% Pervious Area
8,609		31.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0					Direct Entry,

Summary for Subcatchment 10S: POST 10

Runoff = 3.97 cfs @ 12.15 hrs, Volume= 0.337 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
2,999	98	Roofs, HSG D
1,658	98	Paved parking, HSG D
413	98	Unconnected pavement, HSG D
16,156	80	>75% Grass cover, Good, HSG D
4,870	98	Roofs, HSG A
3,489	98	Paved parking, HSG A
784	98	Unconnected pavement, HSG A
28,504	39	>75% Grass cover, Good, HSG A
6,315	30	Woods, Good, HSG A
65,188	61	Weighted Average
50,975		78.20% Pervious Area
14,213		21.80% Impervious Area
1,197		8.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.7	50	0.0600	0.23		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.6	205	0.0900	2.10		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.7	53	0.0700	1.32		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.8	152	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.4	258	0.0080	1.82		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.2	718	Total			

Summary for Subcatchment 11S: POST 11

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 0.043 af, Depth= 6.76"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
3,352	98	Paved parking, HSG A			
3,352		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 13S: POST 13

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 0.040 af, Depth= 6.76"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
3,056	98	Paved parking, HSG A			
3,056		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 14S: POST 14

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.039 af, Depth= 6.76"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
2,995	98	Paved parking, HSG A			
2,995		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 15S: POST 15

Runoff = 3.86 cfs @ 12.09 hrs, Volume= 0.290 af, Depth= 5.37"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
2,736	98	Roofs, HSG D
7,798	98	Paved parking, HSG D
709	98	Unconnected pavement, HSG D
14,515	80	>75% Grass cover, Good, HSG D
1,051	98	Paved parking, HSG A
285	98	Unconnected pavement, HSG A
1,196	39	>75% Grass cover, Good, HSG A
28,290	86	Weighted Average
15,711		55.54% Pervious Area
12,579		44.46% Impervious Area
994		7.90% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 16S: POST 16

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af, Depth= 6.76"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
921	98	Paved parking, HSG A			
1,990	98	Paved parking, HSG D			
2,911	98	Weighted Average			
2,911		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 18S: POST 18

Runoff = 2.35 cfs @ 12.09 hrs, Volume= 0.176 af, Depth= 5.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
1,536	98	Roofs, HSG D			
3,103	98	Paved parking, HSG D			
626	98	Unconnected pavement, HSG D			
12,214	80	>75% Grass cover, Good, HSG D			
17,479	85	Weighted Average			
12,214		69.88% Pervious Area			
5,265		30.12% Impervious Area			
626		11.89% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 19S: POST 19

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.022 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
1,672	98	Paved parking, HSG D			
1,672		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry.

Summary for Subcatchment 20S: POST 20

Runoff = 2.19 cfs @ 12.09 hrs, Volume= 0.166 af, Depth= 5.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
836	98	Roofs, HSG D			
3,970	98	Paved parking, HSG D			
1,008	98	Unconnected roofs, HSG D			
9,983	80	>75% Grass cover, Good, HSG D			
15,797	87	Weighted Average			
9,983		63.20% Pervious Area			
5,814		36.80% Impervious Area			
1,008		17.34% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 21S: POST 21

Runoff = 4.19 cfs @ 12.09 hrs, Volume= 0.319 af, Depth= 5.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
4,656	98	Roofs, HSG D			
8,878	98	Paved parking, HSG D			
16,275	80	>75% Grass cover, Good, HSG D			
29,809	88	Weighted Average			
16,275		54.60% Pervious Area			
13,534		45.40% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 22S: POST 22

Runoff = 9.23 cfs @ 12.09 hrs, Volume= 0.677 af, Depth= 4.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
5,682	98	Roofs, HSG D			
47,489	80	>75% Grass cover, Good, HSG D			
20,927	77	Woods, Good, HSG D			
1,254	30	Woods, Good, HSG A			
75,352	80	Weighted Average			
69,670		92.46% Pervious Area			
5,682		7.54% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 23S: POST 23

Runoff = 2.47 cfs @ 12.09 hrs, Volume= 0.190 af, Depth= 5.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
2,928	98	Roofs, HSG D			
6,271	98	Paved parking, HSG D			
7,880	80	>75% Grass cover, Good, HSG D			
17,079	90	Weighted Average			
7,880		46.14% Pervious Area			
9,199		53.86% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 24S: POST 24

Runoff = 1.99 cfs @ 12.09 hrs, Volume= 0.151 af, Depth= 5.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
1,299	98	Roofs, HSG D
3,427	98	Paved parking, HSG D
767	98	Unconnected pavement, HSG D
8,874	80	>75% Grass cover, Good, HSG D
14,367	87	Weighted Average
8,874		61.77% Pervious Area
5,493		38.23% Impervious Area
767		13.96% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 25S: POST 25

Runoff = 3.22 cfs @ 12.09 hrs, Volume= 0.248 af, Depth= 5.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
2,925	98	Roofs, HSG D			
8,071	98	Paved parking, HSG D			
905	98	Unconnected pavement, HSG D			
10,386	80	>75% Grass cover, Good, HSG D			
22,287	90	Weighted Average			
10,386		46.60% Pervious Area			
11,901		53.40% Impervious Area			
905		7.60% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry,

Summary for Subcatchment 26S: POST 26

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 0.089 af, Depth= 5.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
468	98	Roofs, HSG D			
3,772	98	Paved parking, HSG D			
3,753	80	>75% Grass cover, Good, HSG D			
7,993	90	Weighted Average			
3,753		46.95% Pervious Area			
4,240		53.05% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description			
6.0					Direct Entry.

Summary for Subcatchment 27S: POST 27

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 0.039 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description	
3,003	98	Paved parking, HSG D		
3,003		100.00% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				
Direct Entry,				

Summary for Subcatchment 28S: POST 28

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 0.039 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description	
3,037	98	Paved parking, HSG D		
3,037		100.00% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				
Direct Entry,				

Summary for Subcatchment 29S: POST 29

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 0.035 af, Depth= 6.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description	
2,681	98	Paved parking, HSG D		
2,681		100.00% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				
Direct Entry,				

Summary for Subcatchment 30S: POST 30

Runoff = 3.68 cfs @ 12.09 hrs, Volume= 0.279 af, Depth= 5.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description	
3,210	98	Roofs, HSG D		
8,847	98	Paved parking, HSG D		
14,062	80	>75% Grass cover, Good, HSG D		
26,119	88	Weighted Average		
14,062		53.84% Pervious Area		
12,057		46.16% Impervious Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				
Direct Entry,				

Summary for Subcatchment 31S: POST 31

Runoff = 3.44 cfs @ 12.09 hrs, Volume= 0.263 af, Depth= 5.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)		CN	Description	
3,204	98	Roofs, HSG D		
8,044	98	Paved parking, HSG D		
1,343	98	Unconnected pavement, HSG D		
11,530	80	>75% Grass cover, Good, HSG D		
24,121	89	Weighted Average		
11,530		47.80% Pervious Area		
12,591		52.20% Impervious Area		
1,343		10.67% Unconnected		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)
6.0				
Direct Entry,				

Summary for Subcatchment 32S: POST 32

Runoff = 4.91 cfs @ 12.09 hrs, Volume= 0.371 af, Depth= 5.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
4,350	98	Roofs, HSG D
9,063	98	Paved parking, HSG D
21,986	80	>75% Grass cover, Good, HSG D

35,399	87	Weighted Average
21,986		62.11% Pervious Area
13,413		37.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 33S: POST 33

Runoff = 1.89 cfs @ 12.09 hrs, Volume= 0.150 af, Depth= 6.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
1,908	98	Roofs, HSG D
6,727	98	Paved parking, HSG D
216	98	Unconnected pavement, HSG D
106	98	Paved parking, HSG A
3,719	80	>75% Grass cover, Good, HSG D

12,676	93	Weighted Average
3,719		29.34% Pervious Area
8,957		70.66% Impervious Area
216		2.41% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 34S: POST 34

Runoff = 4.14 cfs @ 12.09 hrs, Volume= 0.315 af, Depth= 5.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
3,227	98	Roofs, HSG D
10,066	98	Paved parking, HSG D
16,160	80	>75% Grass cover, Good, HSG D

29,453	88	Weighted Average
16,160		54.87% Pervious Area
13,293		45.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 35S: POST 35

Runoff = 1.02 cfs @ 12.10 hrs, Volume= 0.076 af, Depth= 2.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
5,253	80	>75% Grass cover, Good, HSG D
7,605	39	>75% Grass cover, Good, HSG A
1,779	98	Roofs, HSG D

14,637	61	Weighted Average
12,858		87.85% Pervious Area
1,779		12.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 36S: POST 36

Runoff = 0.07 cfs @ 12.16 hrs, Volume= 0.011 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
7,243	39	>75% Grass cover, Good, HSG A
7,243		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 37S: POST 37

Runoff = 0.44 cfs @ 12.11 hrs, Volume= 0.038 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
8,816	39	>75% Grass cover, Good, HSG A
3,764	61	>75% Grass cover, Good, HSG B
381	96	Gravel surface, HSG A
352	96	Gravel surface, HSG B
13,313	48	Weighted Average
13,313		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 38S: POST 38

Runoff = 0.25 cfs @ 12.12 hrs, Volume= 0.026 af, Depth= 1.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
11,263	39	>75% Grass cover, Good, HSG A
1,102	61	>75% Grass cover, Good, HSG B
427	96	Gravel surface, HSG A
12,792	43	Weighted Average
12,792		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 39S: POST 39

Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Depth= 4.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Adj	Description
810	98		Roofs, HSG D
8,229	80		>75% Grass cover, Good, HSG D
748	98		Unconnected pavement, HSG D
882	39		>75% Grass cover, Good, HSG A
202	98		Unconnected pavement, HSG A
10,871	80	79	Weighted Average, UI Adjusted
9,111			83.81% Pervious Area
1,760			16.19% Impervious Area
950			53.98% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 40S: POST 40

Runoff = 0.94 cfs @ 12.10 hrs, Volume= 0.069 af, Depth= 3.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Adj	Description
1,018	98		Roofs, HSG D
5,471	80		>75% Grass cover, Good, HSG D
506	98		Unconnected pavement, HSG A
4,230	39		>75% Grass cover, Good, HSG A
11,225	67	66	Weighted Average, UI Adjusted
9,701			86.42% Pervious Area
1,524			13.58% Impervious Area
506			33.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 42S: POST 42

Runoff = 13.42 cfs @ 12.13 hrs, Volume= 1.099 af, Depth= 4.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
91,127	80	>75% Grass cover, Good, HSG D
15,663	77	Woods, Good, HSG D
11,784	98	Roofs, HSG D
174	98	Roofs, HSG A
846	39	>75% Grass cover, Good, HSG A
119,594	81	Weighted Average
107,636		90.00% Pervious Area
11,958		10.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.0	91	0.0430	1.45		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.2	72	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	71	0.0980	2.19		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.3	314	0.0500	1.57		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
9.3	598	Total			

Summary for Subcatchment 43S: POST 43 (PERIMETER)

Runoff = 23.43 cfs @ 12.20 hrs, Volume= 2.599 af, Depth= 1.32"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
153,802	39	>75% Grass cover, Good, HSG A
480,558	30	Woods, Good, HSG A
119,742	55	Woods, Good, HSG B
3,192	98	Roofs, HSG D
110,786	61	>75% Grass cover, Good, HSG B
83,132	77	Woods, Good, HSG D
4,334	96	Gravel surface, HSG A
794	96	Gravel surface, HSG D
3,302	98	Unconnected pavement, HSG A
55,819	80	>75% Grass cover, Good, HSG D
13,460	96	Gravel surface, HSG B
1,028,921	46	Weighted Average
1,022,427		99.37% Pervious Area
6,494		0.63% Impervious Area
3,302		50.85% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.10"
3.4	337	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	110	0.1400	2.62		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.3	497	Total			

Summary for Subcatchment 44S: POST 44

Runoff = 20.90 cfs @ 12.10 hrs, Volume= 1.651 af, Depth= 1.94"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
268,531	39	>75% Grass cover, Good, HSG A			
20,513	30	Woods, Good, HSG A			
6,364	77	Woods, Good, HSG D			
140,721	80	>75% Grass cover, Good, HSG D			
9,264	98	Roofs, HSG D			
445,393	53	Weighted Average			
436,129		97.92% Pervious Area			
9,264		2.08% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 46S: POST 45

Runoff = 10.92 cfs @ 12.17 hrs, Volume= 1.158 af, Depth= 1.32"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description			
241,884	30	Woods, Good, HSG A			
95,851	77	Woods, Good, HSG D			
7,023	96	Gravel surface, HSG A			
2,364	96	Gravel surface, HSG D			
79,566	39	>75% Grass cover, Good, HSG A			
28,376	80	>75% Grass cover, Good, HSG D			
3,192	98	Roofs, HSG D			
458,256	46	Weighted Average			
455,064		99.30% Pervious Area			
3,192		0.70% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1					Direct Entry,

Summary for Subcatchment 65S: POST 12

Runoff = 3.79 cfs @ 12.13 hrs, Volume= 0.303 af, Depth= 3.41"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
2,804	98	Roofs, HSG D
2,957	98	Paved parking, HSG D
102	98	Unconnected pavement, HSG D
15,718	80	>75% Grass cover, Good, HSG D
2,914	98	Roofs, HSG A
2,970	98	Paved parking, HSG A
18,928	39	>75% Grass cover, Good, HSG A
46,393	68	Weighted Average
34,646		74.68% Pervious Area
11,747		25.32% Impervious Area
102		0.87% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
1.7	142	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	43	0.3200	3.96		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.8	144	0.0380	1.36		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.6	150	0.0060	1.57		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.6	529	Total			

Summary for Subcatchment 69S: POST 41

Runoff = 9.29 cfs @ 12.15 hrs, Volume= 0.773 af, Depth= 2.80"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
4,940	96	Gravel surface, HSG D
16,434	77	Woods, Good, HSG D
25,175	39	>75% Grass cover, Good, HSG A
31,571	30	Woods, Good, HSG A
66,129	80	>75% Grass cover, Good, HSG D
144,249	62	Weighted Average
144,249		100.00% Pervious Area

Summary for Subcatchment 70S: POST 17

Runoff = 2.54 cfs @ 12.11 hrs, Volume= 0.215 af, Depth= 1.58"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	50	0.1000	0.28		Sheet Flow, Grass: Short n= 0.150 P2= 3.10"
3.9	392	0.1100	1.66		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.7	113	0.0800	0.71		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
9.6	555	Total			

Summary for Pond 1P: INFIL. BASIN #1

Runoff = 2.54 cfs @ 12.11 hrs, Volume= 0.215 af, Depth= 1.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-year Rainfall=7.00"

Area (sf)	CN	Description
473	96	Gravel surface, HSG D
12,174	80	>75% Grass cover, Good, HSG D
3,962	96	Gravel surface, HSG A
1,839	30	Woods, Good, HSG A
52,644	39	>75% Grass cover, Good, HSG A
71,092	49	Weighted Average
71,092		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: INFIL. BASIN #1

Inflow Area = 1,590 ac, 27.54% Impervious, Inflow Depth = 1.07" for 100-year event
Inflow = 1.72 cfs @ 12.10 hrs, Volume= 0.141 af
Outflow = 0.14 cfs @ 13.78 hrs, Volume= 0.141 af, Atten= 92%, Lag= 101.0 min
Discarded = 0.14 cfs @ 13.78 hrs, Volume= 0.141 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 249.02 @ 13.78 hrs Surf.Area= 1,706 sf Storage= 2,903 cf

Plug-Flow detention time= 276.8 min calculated for 0.141 af (100% of inflow)
Center-of-Mass det. time= 277.0 min (1,103.4 - 826.4)

Volume	Invert	Avail.Storage	Storage Description
#1	245.00'	34,907 cf	Custom Stage Data (Irregular) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
245.00	111	47.0	0	0	111
246.00	280	66.0	189	189	291
248.00	1,100	152.0	1,290	1,479	1,799
250.00	2,410	245.0	3,425	4,905	4,763
252.00	3,995	283.0	6,339	11,243	6,445
254.00	5,894	332.0	9,828	21,071	8,921
256.00	7,996	370.0	13,837	34,907	11,157

Device Routing Invert Outlet Devices

#1	Discarded	245.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 243.00'			
#2	Primary	255.00'	10.0' long x 13.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60			
Coef. (English) 2.60 2.64 2.70 2.66 2.65 2.66 2.65 2.63			

Discarded OutFlow Max=0.14 cfs @ 13.78 hrs HW=249.02' (Free Discharge)
1-Exfiltration (Controls 0.14 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=245.00' (Free Discharge)
2-Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 2P: INFILTRATION BASIN #1-A

Inflow Area = 0.915 ac, 29.75% Impervious, Inflow Depth = 3.10" for 100-year event
Inflow = 3.02 cfs @ 12.09 hrs, Volume= 0.236 af
Outflow = 0.21 cfs @ 14.00 hrs, Volume= 0.236 af, Atten= 93%, Lag= 114.2 min
Discarded = 0.21 cfs @ 14.00 hrs, Volume= 0.236 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 254.55' @ 14.00 hrs Surf.Area= 3,384 sf Storage= 4,509 cf

Plug-Flow detention time= 220.8 min calculated for 0.236 af (100% of inflow)
Center-of-Mass det. time= 220.7 min (1,040.3 - 819.7)

Volume	Invert	Avail.Storage	Storage Description
#1	253.00'	10,119 cf	Custom Stage Data (Irregular) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
253.00	2,452	186.0	0	0	2,452
254.00	3,038	205.0	2,740	2,740	3,075
255.00	3,680	224.0	3,354	6,094	3,758
256.00	4,380	242.0	4,025	10,119	4,465

Device Routing Invert Outlet Devices

#1	Discarded	253.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 243.00'			
#2	Primary	255.50'	8.0' long x 10.0' breadth Broad-Crested Rectangular Weir

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.21 cfs @ 14.00 hrs HW=254.55' (Free Discharge)
1-Exfiltration (Controls 0.21 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=253.00' (Free Discharge)
2-Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 3P: INFIL. BASIN #2

Inflow Area = 11.859 ac, 34.07% Impervious, Inflow Depth = 4.77" for 100-year event
Inflow = 58.06 cfs @ 12.10 hrs, Volume= 4.717 af
Outflow = 15.34 cfs @ 12.51 hrs, Volume= 4.717 af, Atten= 74%, Lag= 24.3 min
Discarded = 1.06 cfs @ 12.51 hrs, Volume= 0.777 af
Primary = 14.28 cfs @ 12.51 hrs, Volume= 3.940 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 273.00' @ 12.51 hrs Surf.Area= 12,663 sf Storage= 74,318 cf

Plug-Flow detention time= 100.1 min calculated for 4.714 af (100% of inflow)
Center-of-Mass det. time= 100.3 min (899.0 - 798.7)

Volume Invert Avail.Storage Storage Description

#1	263.00'	87,659 cf	Custom Stage Data (Irregular) listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
263.00	3,149	223.0	0	0	3,149
264.00	3,847	242.0	3,492	3,492	3,890
266.00	5,412	280.0	9,215	12,707	5,552
268.00	7,203	317.0	12,572	25,279	7,408
270.00	9,220	355.0	16,382	41,661	9,549
272.00	11,463	393.0	20,642	62,303	11,931
274.00	13,933	430.0	25,356	87,659	14,490

Device Routing Invert Outlet Devices

#1	Discarded	263.00'	2,410 in/hr Exfiltration over Surface area
Conductivity to Groundwater Elevation = 253.00'			
#2	Primary	263.00'	15.0" Round Culvert
L= 87.0' CPP, projecting, no headwall, Ke= 0.900			
Inlet / Outlet Invert= 263.00' / 262.00' S= 0.0115' /' Cc= 0.900			
n= 0.013, Flow Area= 1.23 sf			
#3	Primary	273.00'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60			
Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64			
#4	Device 2	268.70'	16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#5	Device 2	267.00'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#6	Device 2	263.94'	6.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.06 cfs @ 12.51 hrs HW=272.99' (Free Discharge)
1=Exfiltration (Controls 1.06 cfs)

Primary OutFlow Max=14.28 cfs @ 12.51 hrs HW=272.99' (Free Discharge)
2=Culvert (Inlet Controls 14.28 cfs @ 11.64 fps)
4=Sharp-Crested Rectangular Weir (Passes < 440.49 cfs potential flow)
5=Orifice/Grate (Passes < 1.58 cfs potential flow)
6=Orifice/Grate (Passes < 2.81 cfs potential flow)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 6P: INFIL. BASIN #3

Inflow Area = 3.499 ac, 26.06% Impervious, Inflow Depth = 5.15" for 100-year event
Inflow = 20.07 cfs @ 12.09 hrs, Volume= 1.502 af
Outflow = 7.36 cfs @ 12.35 hrs, Volume= 1.502 af, Atten= 63%, Lag= 15.8 min
Discarded = 0.38 cfs @ 12.35 hrs, Volume= 0.525 af
Primary = 6.98 cfs @ 12.35 hrs, Volume= 0.977 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 317.96' @ 12.35 hrs Surf.Area= 6,861 sf Storage= 25,059 cf

Plug-Flow detention time= 256.8 min calculated for 1.502 af (100% of inflow)
Center-of-Mass det. time= 256.4 min (1,052.3 - 795.9)

Volume	Invert	Avail. Storage	Storage Description	Custom Stage Data (Irregular) Listed below (Recalc)			
#1	312.00'	41,148 cf					
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area		
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)		
312.00	1,767	179.0	0	0	1,767		
314.00	3,405	239.0	5,083	5,083	3,806		
316.00	5,012	284.0	8,365	13,449	5,751		
318.00	6,898	329.0	11,860	25,309	8,030		
320.00	8,987	367.0	15,839	41,148	10,247		

Device	Routing	Invert	Outlet Devices
#1	Discarded	312.00'	1,020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 310.00'
#2	Primary	312.00'	12.0" Round Culvert L= 60.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 312.00' / 310.00' S= 0.0333 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf
#3	Primary	319.50'	20.0' long x 12.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.57 2.62 2.70 2.67 2.66 2.67 2.66 2.64 16.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s) 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	316.50'	
#5	Device 2	315.00'	

Discarded OutFlow Max=0.38 cfs @ 12.35 hrs HW=317.96' (Free Discharge)
1=Exfiltration (Controls 0.38 cfs)

Primary OutFlow Max=6.98 cfs @ 12.35 hrs HW=317.96' (Free Discharge)
2=Culvert (Inlet Controls 6.98 cfs @ 8.88 fps)
4=Sharp-Crested Rectangular Weir (Passes < 90.88 cfs potential flow)
5=Orifice/Grate (Passes < 0.70 cfs potential flow)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 7P: CB-103

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 2.54" for 100-year event
Inflow = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af
Outflow = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.41' @ 12.10 hrs
Flood Elev= 250.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.90'	12.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 247.90' / 247.80' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.65 cfs @ 12.10 hrs HW=248.41' (Free Discharge)
1=Culvert (Barrel Controls 0.65 cfs @ 2.38 fps)

Summary for Pond 8P: CB-102

Inflow Area = 0.103 ac, 81.80% Impervious, Inflow Depth = 5.48" for 100-year event
Inflow = 0.62 cfs @ 12.09 hrs, Volume= 0.047 af
Outflow = 0.62 cfs @ 12.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.09 hrs, Volume= 0.047 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.25' @ 12.09 hrs
Flood Elev= 249.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.80'	12.0" Round Culvert L= 17.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 246.80' / 246.50' S= 0.0176 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=247.25' (Free Discharge)
1=Culvert (Inlet Controls 0.61 cfs @ 1.79 fps)

Summary for Pond 9P: CB-106

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 3.65" for 100-year event
Inflow = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af
Outflow = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.43' @ 12.09 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.50' / 258.20' S= 0.0300' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.94 cfs @ 12.09 hrs HW=259.42' (Free Discharge)
1=Culvert (Inlet Controls 1.94 cfs @ 2.57 fps)

Summary for Pond 10P: CB-107

Inflow Area = 0.132 ac, 79.87% Impervious, Inflow Depth = 5.59" for 100-year event
Inflow = 0.81 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.81 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.81 cfs @ 12.09 hrs, Volume= 0.061 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.22' @ 12.09 hrs
Flood Elev= 262.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.70'	12.0" Round Culvert

L= 57.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.70' / 254.50' S= 0.0737' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.79 cfs @ 12.09 hrs HW=259.21' (Free Discharge)
1=Culvert (Inlet Controls 0.79 cfs @ 1.93 fps)

Summary for Pond 11P: DMH-101

Inflow Area = 0.369 ac, 44.88% Impervious, Inflow Depth = 3.36" for 100-year event
Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.103 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 247.09' @ 12.09 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	246.40'	12.0" Round Culvert

L= 105.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 246.40' / 245.00' S= 0.0133' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.26 cfs @ 12.09 hrs HW=247.08' (Free Discharge)
1=Culvert (Inlet Controls 1.26 cfs @ 2.22 fps)

Summary for Pond 12P: DMH-102

Inflow Area = 0.266 ac, 30.62% Impervious, Inflow Depth = 2.54" for 100-year event
Inflow = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af
Outflow = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 0.66 cfs @ 12.10 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 248.17' @ 12.10 hrs
Flood Elev= 254.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	247.70'	12.0" Round Culvert

L= 113.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 247.70' / 246.90' S= 0.0071' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.65 cfs @ 12.10 hrs HW=248.16' (Free Discharge)
1=Culvert (Inlet Controls 0.65 cfs @ 1.83 fps)

Summary for Pond 13P: DMH-103

Inflow Area = 0.621 ac, 43.80% Impervious, Inflow Depth = 4.06" for 100-year event
Inflow = 2.78 cfs @ 12.09 hrs, Volume= 0.210 af
Outflow = 2.78 cfs @ 12.09 hrs, Volume= 0.210 af, Atten= 0%, Lag= 0.0 min
Primary = 2.78 cfs @ 12.09 hrs, Volume= 0.210 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 255.37' @ 12.09 hrs
Flood Elev= 262.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	254.00'	12.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 254.00' / 253.00' S= 0.0130' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.73 cfs @ 12.09 hrs HW=255.33' (Free Discharge)
1=Culvert (Inlet Controls 2.73 cfs @ 3.47 fps)

Summary for Pond 14P: DMH-104

Inflow Area = 0.490 ac, 34.11% Impervious, Inflow Depth = 3.65" for 100-year event
Inflow = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af
Outflow = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 12.09 hrs, Volume= 0.149 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 259.03' @ 12.09 hrs
Flood Elev= 262.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.10'	12.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 258.10' / 255.80' S= 0.0253 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.94 cfs @ 12.09 hrs HW=259.02' (Free Discharge)
1=Culvert (Inlet Controls 1.94 cfs @ 2.57 fps)

Summary for Pond 15P: DMH-201

Inflow Area = 11.568 ac, 33.14% Impervious, Inflow Depth = 4.74" for 100-year event
Inflow = 56.20 cfs @ 12.10 hrs, Volume= 4.567 af
Outflow = 56.20 cfs @ 12.10 hrs, Volume= 4.567 af, Atten= 0%, Lag= 0.0 min
Primary = 56.20 cfs @ 12.10 hrs, Volume= 4.567 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 270.47' @ 12.10 hrs
Flood Elev= 275.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.60'	36.0" Round Culvert

L= 41.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 264.60' / 263.00' S= 0.0390 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=55.74 cfs @ 12.10 hrs HW=270.40' (Free Discharge)
1=Culvert (Inlet Controls 55.74 cfs @ 7.89 fps)

Summary for Pond 16P: DMH-202

Inflow Area = 3.827 ac, 47.80% Impervious, Inflow Depth = 5.64" for 100-year event
Inflow = 23.46 cfs @ 12.09 hrs, Volume= 1.797 af
Outflow = 23.46 cfs @ 12.09 hrs, Volume= 1.797 af, Atten= 0%, Lag= 0.0 min
Primary = 23.46 cfs @ 12.09 hrs, Volume= 1.797 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.75' @ 12.09 hrs
Flood Elev= 283.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.90'	24.0" Round Culvert

L= 77.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.90' / 271.00' S= 0.0766 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=22.88 cfs @ 12.09 hrs HW=281.57' (Free Discharge)
1=Culvert (Inlet Controls 22.88 cfs @ 7.28 fps)

Summary for Pond 17P: FIELD INLET-201

Inflow Area = 0.250 ac, 16.19% Impervious, Inflow Depth = 4.58" for 100-year event
Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.49' @ 12.09 hrs
Flood Elev= 282.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	12.0" Round Culvert

L= 46.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.80' / 278.00' S= 0.0174 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=279.48' (Free Discharge)
1=Culvert (Inlet Controls 1.28 cfs @ 2.22 fps)

Summary for Pond 18P: CB-202

Inflow Area = 0.676 ac, 45.13% Impervious, Inflow Depth = 5.59" for 100-year event
Inflow = 4.14 cfs @ 12.09 hrs, Volume= 0.315 af
Outflow = 4.14 cfs @ 12.09 hrs, Volume= 0.315 af, Atten= 0%, Lag= 0.0 min
Primary = 4.14 cfs @ 12.09 hrs, Volume= 0.315 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.32' @ 12.09 hrs
Flood Elev= 282.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.90'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.90' / 278.00' S= 0.0474 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.04 cfs @ 12.09 hrs HW=281.23' (Free Discharge)
1=Culvert (Inlet Controls 4.04 cfs @ 5.15 fps)

Summary for Pond 19P: CB-201

Inflow Area = 0.040 ac, 97.61% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af
Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 278.79' @ 12.09 hrs
Flood Elev= 282.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.50'	12.0" Round Culvert

L= 43.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.50' / 278.00' S= 0.0116' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=278.78' (Free Discharge)
1=Culvert (Inlet Controls 0.26 cfs @ 1.43 fps)

Summary for Pond 20P: DMH-203

Inflow Area = 7.741 ac, 25.90% Impervious, Inflow Depth = 4.29" for 100-year event
Inflow = 33.34 cfs @ 12.12 hrs, Volume= 2.770 af
Outflow = 33.34 cfs @ 12.12 hrs, Volume= 2.770 af, Atten= 0%, Lag= 0.0 min
Primary = 33.34 cfs @ 12.12 hrs, Volume= 2.770 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.03' @ 12.12 hrs
Flood Elev= 283.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.60'	30.0" Round Culvert

L= 70.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 276.60' / 270.50' S= 0.0871' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=32.50 cfs @ 12.12 hrs HW=280.88' (Free Discharge)
1=Culvert (Inlet Controls 32.50 cfs @ 6.62 fps)

Summary for Pond 21P: CB-204

Inflow Area = 0.051 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.43' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0550' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=280.42' (Free Discharge)
1=Culvert (Inlet Controls 0.33 cfs @ 1.52 fps)

Summary for Pond 22P: CB-205

Inflow Area = 0.310 ac, 28.18% Impervious, Inflow Depth = 3.81" for 100-year event
Inflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af
Outflow = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
Primary = 1.29 cfs @ 12.09 hrs, Volume= 0.098 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 280.79' @ 12.09 hrs
Flood Elev= 284.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.10'	12.0" Round Culvert

L= 33.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.10' / 279.00' S= 0.0333' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=280.78' (Free Discharge)
1=Culvert (Inlet Controls 1.27 cfs @ 2.22 fps)

Summary for Pond 23P: DMH-204

Inflow Area = 7.380 ac, 25.29% Impervious, Inflow Depth = 4.30" for 100-year event
Inflow = 31.77 cfs @ 12.12 hrs, Volume= 2.643 af
Outflow = 31.77 cfs @ 12.12 hrs, Volume= 2.643 af, Atten= 0%, Lag= 0.0 min
Primary = 31.77 cfs @ 12.12 hrs, Volume= 2.643 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.64' @ 12.12 hrs
Flood Elev= 285.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.50'	30.0" Round Culvert

L= 192.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 277.50' / 276.70' S= 0.0042' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=30.95 cfs @ 12.12 hrs HW=281.50' (Free Discharge)
1=Culvert (Inlet Controls 30.95 cfs @ 6.31 fps)

Summary for Pond 24P: CB-206

Inflow Area = 0.633 ac, 31.21% Impervious, Inflow Depth = 4.15" for 100-year event
Inflow = 2.59 cfs @ 12.16 hrs, Volume= 0.219 af
Outflow = 2.59 cfs @ 12.16 hrs, Volume= 0.219 af, Atten= 0%, Lag= 0.0 min
Primary = 2.59 cfs @ 12.16 hrs, Volume= 0.219 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.36' @ 12.16 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	24.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.57 cfs @ 12.16 hrs HW=282.36' (Free Discharge)
1-Culvert (Inlet Controls 2.57 cfs @ 2.34 fps)

Summary for Pond 25P: CB-207

Inflow Area = 0.068 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af
Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.98' @ 12.09 hrs
Flood Elev= 285.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	281.60'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 281.60' / 281.30' S= 0.0188 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=281.97' (Free Discharge)
1-Culvert (Inlet Controls 0.44 cfs @ 1.64 fps)

Summary for Pond 26P: DMH-205

Inflow Area = 6.679 ac, 23.97% Impervious, Inflow Depth = 4.29" for 100-year event
Inflow = 28.90 cfs @ 12.12 hrs, Volume= 2.386 af
Outflow = 28.90 cfs @ 12.12 hrs, Volume= 2.386 af, Atten= 0%, Lag= 0.0 min
Primary = 28.90 cfs @ 12.12 hrs, Volume= 2.386 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.84' @ 12.12 hrs
Flood Elev= 286.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.20'	30.0" Round Culvert

L= 151.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 278.20' / 277.60' S= 0.0040 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=28.17 cfs @ 12.12 hrs HW=281.73' (Free Discharge)
1-Culvert (Inlet Controls 28.17 cfs @ 5.74 fps)

Summary for Pond 27P: DMH-206

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 4.45" for 100-year event
Inflow = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af
Outflow = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af, Atten= 0%, Lag= 0.0 min
Primary = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.05' @ 12.12 hrs
Flood Elev= 286.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	279.00'	30.0" Round Culvert

L= 168.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 279.00' / 278.30' S= 0.0042 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=24.48 cfs @ 12.12 hrs HW=281.97' (Free Discharge)
1-Culvert (Inlet Controls 24.48 cfs @ 4.99 fps)

Summary for Pond 28P: DMH-207

Inflow Area = 5.614 ac, 23.72% Impervious, Inflow Depth = 4.45" for 100-year event
Inflow = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af
Outflow = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af, Atten= 0%, Lag= 0.0 min
Primary = 25.09 cfs @ 12.12 hrs, Volume= 2.083 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 283.25' @ 12.12 hrs
Flood Elev= 285.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.20'	30.0" Round Culvert

L= 268.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 280.20' / 279.10' S= 0.0041 '/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=24.48 cfs @ 12.12 hrs HW=283.17' (Free Discharge)
1-Culvert (Inlet Controls 24.48 cfs @ 4.99 fps)

Summary for Pond 29P: CB-208

Inflow Area = 0.147 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.99 cfs @ 12.09 hrs, Volume= 0.083 af
Outflow = 0.99 cfs @ 12.09 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.0 min
Primary = 0.99 cfs @ 12.09 hrs, Volume= 0.083 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 282.79' @ 12.09 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	12.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=282.78' (Free Discharge)
1=Culvert (Inlet Controls 0.96 cfs @ 2.04 fps)

Summary for Pond 30P: CB-209

Inflow Area = 1.565 ac, 25.24% Impervious, Inflow Depth = 2.88" for 100-year event
Inflow = 4.33 cfs @ 12.15 hrs, Volume= 0.376 af
Outflow = 4.33 cfs @ 12.15 hrs, Volume= 0.376 af, Atten= 0%, Lag= 0.0 min
Primary = 4.33 cfs @ 12.15 hrs, Volume= 0.376 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 283.68' @ 12.15 hrs
Flood Elev= 285.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.20'	15.0" Round Culvert

L= 14.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.20' / 282.00' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.31 cfs @ 12.15 hrs HW=283.68' (Free Discharge)
1=Culvert (Inlet Controls 4.31 cfs @ 3.51 fps)

Summary for Pond 31P: DMH-208

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 5.00" for 100-year event
Inflow = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af
Outflow = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af, Atten= 0%, Lag= 0.0 min
Primary = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 287.30' @ 12.11 hrs
Flood Elev= 289.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.50'	24.0" Round Culvert

L= 165.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.50' / 280.70' S= 0.0170 ' S= 0.0170 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=19.56 cfs @ 12.11 hrs HW=287.18' (Free Discharge)
1=Culvert (Inlet Controls 19.56 cfs @ 6.23 fps)

Summary for Pond 32P: DMH-209

Inflow Area = 3.901 ac, 20.23% Impervious, Inflow Depth = 5.00" for 100-year event
Inflow = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af
Outflow = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af, Atten= 0%, Lag= 0.0 min
Primary = 19.99 cfs @ 12.11 hrs, Volume= 1.625 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 300.20' @ 12.11 hrs
Flood Elev= 301.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	296.40'	24.0" Round Culvert

L= 150.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 296.40' / 283.60' S= 0.0853 ' S= 0.0853 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=19.56 cfs @ 12.11 hrs HW=300.08' (Free Discharge)
1=Culvert (Inlet Controls 19.56 cfs @ 6.23 fps)

Summary for Pond 33P: CB-210

Inflow Area = 0.067 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af
Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.038 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 298.38' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250 ' S= 0.0250 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=298.37' (Free Discharge)
1=Culvert (Inlet Controls 0.44 cfs @ 1.64 fps)

Summary for Pond 34P: CB-211

Inflow Area =	0.649 ac, 44.48% Impervious, Inflow Depth = 5.37" for 100-year event
Inflow =	3.86 cfs @ 12.09 hrs. Volume= 0.290 af
Outflow =	3.86 cfs @ 12.09 hrs. Volume= 0.290 af
Primary =	3.86 cfs @ 12.09 hrs. Volume= 0.290 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 300.17' @ 12.09 hrs
Flood Elev= 302.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.00'	12.0" Round Culvert

12.0' Round Culvert
L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 298.00' / 297.70' S= 0.0250'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior. Flow Area= 0.79 sf

Primary OutFlow Max=3.77 cfs @ 12.09 hrs HW=300.10' (Free Discharge)
 1=Culvert (Inlet Controls 3.77 cfs @ 4.80 fps)

Summary for Pond 35P: DMH-210

Inflow Area =	0.440 ac,	36.22% Impervious,	Inflow Depth = 5.38"	for 100-year event
Inflow =	2.61 cfs @	12.09 hrs, Volume=	0.197 af	
Outflow =	2.61 cfs @	12.09 hrs, Volume=	0.197 af	
Primary =	2.61 cfs @	12.09 hrs, Volume=	0.197 af	

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.86' @ 12.09 hrs
Flood Elev= 320.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.60'	12.0" Round Culvert

12.0' Round Culvert
L = 322.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 315.60' / 297.40' S= 0.0565'/' Cc= 0.900
n= 0.012 Corrugated PP smooth interior Flow Area= 0.79 sf

Primary OutFlow Max=2.54 cfs @ 12.09 hrs HW=316.83' (Free Discharge)
1=Culvert (Inlet Controls 2.54 cfs @ 3.24 fps)

Summary for Pond 36P: CB-212

Inflow Area =	0.038 ac, 100.00%	Impervious, Inflow Depth = 6.76"	for 100-year event
Inflow =	0.26 cfs @ 12.09 hrs.	Volume= 0.022 af	
Outflow =	0.26 cfs @ 12.09 hrs.	Volume= 0.022 af	
Primav =	0.26 cfs @ 12.09 hrs.	Volume= 0.022 af	

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 316.28' @ 12.09 hrs
Flood Elev= 320.00'

Outlet Devices
12" Round Culvert
 L= 13.0' CPP, projecting, no headwall
 Inlet / Outlet Invert= 316.00' / 315.70'
 n= 0.012 Corrugated PP, smooth interior

Inflow Area =	0.401 ac.	30.12%	Impervious,	Inflow Depth =	5.25"	for 100-year event
Inflow =	2.35 cfs @	12.09 hrs,	Volume=	0.176 af		
Outflow =	2.35 cfs @	12.09 hrs,	Volume=	0.176 af,	Atten= 0%,	Lag= 0.0 min
Primary	2.35 cfs @	12.09 hrs,	Volume=	0.176 af		

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 317.12' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	316.00'	12.0" Round Culvert

12.0' Round Culvert
L= 13.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 316.00' / 315.70' S= 0.0231' /' Cc= 0.900
n= 0.012 Corrugated PP smooth interior. Flow Area= 0.79 sf

Primary OutFlow Max=2.29 cfs @ 12.09 hrs HW=317.09' (Free Discharge)
 1=Culvert (Inlet Controls 2.29 cfs @ 2.92 fps)

Summary for Pond 38P: DMH-301

Inflow Area =	1.769 ac, 44.18% Impervious, Inflow Depth = 5.60" for 100-year event
Inflow =	10.85 cfs @ 12.09 hrs, Volume= 0.825 af
Outflow =	10.85 cfs @ 12.09 hrs, Volume= 0.825 af, Lag= 0.0 min
Primary =	10.85 cfs @ 12.09 hrs, Volume= 0.825 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 319.25' @ 12.09 hrs
Flood Elev= 320.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	315.90'	18.0" Round Culvert

18.0" Round Conduit
L = 71.0' CPP, projecting, no headwall, Ke = 0.900
Inlet / Outlet Invert = 315.90' / 312.00' S = 0.0549 '/' Cc = 0.900
n = 0.012 Corrugated PP smooth interior Flow Area = 1.77 sf

Primary OutFlow Max=10.58 cfs @ 12.09 hrs HW=319.13' (Free Discharge)
 ↳1=Culvert (Inlet Controls 10.58 cfs @ 5.99 fps)

Summary for Pond 39P: DMH-302

Inflow Area = 1.769 ac, 44.18% Impervious, Inflow Depth = 5.60" for 100-year event
Inflow = 10.85 cfs @ 12.09 hrs, Volume= 0.825 af
Outflow = 10.85 cfs @ 12.09 hrs, Volume= 0.825 af, Atten= 0%, Lag= 0.0 min
Primary = 10.85 cfs @ 12.09 hrs, Volume= 0.825 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 322.55' @ 12.09 hrs
Flood Elev= 324.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	319.20'	18.0" Round Culvert

L= 154.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 319.20' / 316.00' S= 0.0208 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=10.58 cfs @ 12.09 hrs HW=322.43' (Free Discharge)
1=Culvert (Inlet Controls 10.58 cfs @ 5.99 fps)

Summary for Pond 40P: CB-301

Inflow Area = 0.684 ac, 45.40% Impervious, Inflow Depth = 5.59" for 100-year event
Inflow = 4.19 cfs @ 12.09 hrs, Volume= 0.319 af
Outflow = 4.19 cfs @ 12.09 hrs, Volume= 0.319 af, Atten= 0%, Lag= 0.0 min
Primary = 4.19 cfs @ 12.09 hrs, Volume= 0.319 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 322.47' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.09 cfs @ 12.09 hrs HW=322.38' (Free Discharge)
1=Culvert (Inlet Controls 4.09 cfs @ 5.21 fps)

Summary for Pond 41P: CB-302

Inflow Area = 0.363 ac, 36.80% Impervious, Inflow Depth = 5.48" for 100-year event
Inflow = 2.19 cfs @ 12.09 hrs, Volume= 0.166 af
Outflow = 2.19 cfs @ 12.09 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min
Primary = 2.19 cfs @ 12.09 hrs, Volume= 0.166 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 321.04' @ 12.09 hrs
Flood Elev= 324.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	320.00'	12.0" Round Culvert

L= 12.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 320.00' / 319.70' S= 0.0250 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.13 cfs @ 12.09 hrs HW=321.01' (Free Discharge)
1=Culvert (Inlet Controls 2.13 cfs @ 2.72 fps)

Summary for Pond 42P: DMH-303

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 5.67" for 100-year event
Inflow = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af
Outflow = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af, Atten= 0%, Lag= 0.0 min
Primary = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 330.62' @ 12.09 hrs
Flood Elev= 332.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	327.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 327.90' / 319.70' S= 0.0636 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.35 cfs @ 12.09 hrs HW=330.52' (Free Discharge)
1=Culvert (Inlet Controls 4.35 cfs @ 5.54 fps)

Summary for Pond 43P: DMH-304

Inflow Area = 0.722 ac, 46.72% Impervious, Inflow Depth = 5.67" for 100-year event
Inflow = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af
Outflow = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af, Atten= 0%, Lag= 0.0 min
Primary = 4.46 cfs @ 12.09 hrs, Volume= 0.341 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 338.62' @ 12.09 hrs
Flood Elev= 339.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	335.90'	12.0" Round Culvert

L= 129.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 335.90' / 328.00' S= 0.0612 1/1" Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.35 cfs @ 12.09 hrs HW=338.52' (Free Discharge)
1=Culvert (Inlet Controls 4.35 cfs @ 5.54 fps)

Summary for Pond 44P: CB-303

Inflow Area = 0.392 ac, 53.86% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 2.47 cfs @ 12.09 hrs, Volume= 0.190 af
Outflow = 2.47 cfs @ 12.09 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min
Primary = 2.47 cfs @ 12.09 hrs, Volume= 0.190 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.58' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 17.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0235'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.40 cfs @ 12.09 hrs HW=337.55' (Free Discharge)
1=Culvert (Inlet Controls 2.40 cfs @ 3.06 fps)

Summary for Pond 45P: CB-304

Inflow Area = 0.330 ac, 38.23% Impervious, Inflow Depth = 5.48" for 100-year event
Inflow = 1.99 cfs @ 12.09 hrs, Volume= 0.151 af
Outflow = 1.99 cfs @ 12.09 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min
Primary = 1.99 cfs @ 12.09 hrs, Volume= 0.151 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 337.34' @ 12.09 hrs
Flood Elev= 340.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	336.40'	12.0" Round Culvert

L= 16.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 336.40' / 336.00' S= 0.0250'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.95 cfs @ 12.09 hrs HW=337.32' (Free Discharge)
1=Culvert (Inlet Controls 1.95 cfs @ 2.58 fps)

Summary for Pond 46P: DMH-218

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af
Outflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af, Atten= 0%, Lag= 0.0 min
Primary = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 334.74' @ 12.09 hrs
Flood Elev= 336.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.10'	12.0" Round Culvert

L= 81.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.10' / 328.20' S= 0.0481'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=334.64' (Free Discharge)
1=Culvert (Inlet Controls 4.26 cfs @ 5.43 fps)

Summary for Pond 47P: CB-220

Inflow Area = 0.512 ac, 53.40% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 3.22 cfs @ 12.09 hrs, Volume= 0.248 af
Outflow = 3.22 cfs @ 12.09 hrs, Volume= 0.248 af, Atten= 0%, Lag= 0.0 min
Primary = 3.22 cfs @ 12.09 hrs, Volume= 0.248 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 334.16' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 15.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0200'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.14 cfs @ 12.09 hrs HW=334.10' (Free Discharge)
1=Culvert (Inlet Controls 3.14 cfs @ 4.00 fps)

Summary for Pond 48P: CB-221

Inflow Area = 0.183 ac, 53.05% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 1.15 cfs @ 12.09 hrs, Volume= 0.089 af
Outflow = 1.15 cfs @ 12.09 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 1.15 cfs @ 12.09 hrs, Volume= 0.089 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 333.14' @ 12.09 hrs
Flood Elev= 336.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	12.0" Round Culvert

L= 9.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 332.50' / 332.20' S= 0.0333'/' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.12 cfs @ 12.09 hrs HW=333.13' (Free Discharge)
1=Culvert (Inlet Controls 1.12 cfs @ 2.14 fps)

Summary for Pond 49P: DMH-217

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af
Outflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af, Atten= 0%, Lag= 0.0 min
Primary = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 330.74' @ 12.09 hrs
Flood Elev= 332.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	328.10'	12.0" Round Culvert

L= 147.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 328.10' / 321.30' S= 0.0463 ' S= 0.0463 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=330.64' (Free Discharge)
1-Culvert (Inlet Controls 4.26 cfs @ 5.43 fps)

Summary for Pond 50P: DMH-216

Inflow Area = 0.695 ac, 53.31% Impervious, Inflow Depth = 5.82" for 100-year event
Inflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af
Outflow = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af, Atten= 0%, Lag= 0.0 min
Primary = 4.37 cfs @ 12.09 hrs, Volume= 0.337 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 323.84' @ 12.09 hrs
Flood Elev= 325.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	321.20'	12.0" Round Culvert

L= 118.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 321.20' / 318.10' S= 0.0263 ' S= 0.0263 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=323.74' (Free Discharge)
1-Culvert (Inlet Controls 4.26 cfs @ 5.43 fps)

Summary for Pond 52P: DMH-215

Inflow Area = 0.834 ac, 61.07% Impervious, Inflow Depth = 5.98" for 100-year event
Inflow = 5.30 cfs @ 12.09 hrs, Volume= 0.415 af
Outflow = 5.30 cfs @ 12.09 hrs, Volume= 0.415 af, Atten= 0%, Lag= 0.0 min
Primary = 5.30 cfs @ 12.09 hrs, Volume= 0.415 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 319.81' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	317.90'	15.0" Round Culvert

L= 247.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 317.90' / 310.00' S= 0.0320 ' S= 0.0320 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.17 cfs @ 12.09 hrs HW=319.75' (Free Discharge)
1-Culvert (Inlet Controls 5.17 cfs @ 4.21 fps)

Summary for Pond 53P: CB-219

Inflow Area = 0.069 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.039 af
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.039 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.78' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 21.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0143 ' S= 0.0143 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=318.78' (Free Discharge)
1-Culvert (Inlet Controls 0.45 cfs @ 1.65 fps)

Summary for Pond 54P: CB-218

Inflow Area = 0.070 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.47 cfs @ 12.09 hrs, Volume= 0.039 af
Outflow = 0.47 cfs @ 12.09 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
Primary = 0.47 cfs @ 12.09 hrs, Volume= 0.039 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 318.79' @ 12.09 hrs
Flood Elev= 322.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.40'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 318.40' / 318.10' S= 0.0158 ' S= 0.0158 ' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=318.78' (Free Discharge)
1-Culvert (Inlet Controls 0.45 cfs @ 1.66 fps)

Summary for Pond 55P: DMH-214

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 5.86" for 100-year event
Inflow = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af
Outflow = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af, Atten= 0%, Lag= 0.0 min
Primary = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.50' @ 12.09 hrs
Flood Elev= 315.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.80'	18.0" Round Culvert

L= 95.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 309.80' / 305.60' S= 0.0442' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.15 cfs @ 12.09 hrs HW=312.41' (Free Discharge)
1=Culvert (Inlet Controls 9.15 cfs @ 5.18 fps)

Summary for Pond 56P: CB-217

Inflow Area = 0.062 ac, 100.00% Impervious, Inflow Depth = 6.76" for 100-year event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.035 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 312.56' @ 12.09 hrs
Flood Elev= 316.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	312.20'	12.0" Round Culvert

L= 20.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 312.20' / 311.90' S= 0.0150' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=312.56' (Free Discharge)
1=Culvert (Inlet Controls 0.40 cfs @ 1.60 fps)

Summary for Pond 57P: CB-216

Inflow Area = 0.600 ac, 46.16% Impervious, Inflow Depth = 5.59" for 100-year event
Inflow = 3.68 cfs @ 12.09 hrs, Volume= 0.279 af
Outflow = 3.68 cfs @ 12.09 hrs, Volume= 0.279 af, Atten= 0%, Lag= 0.0 min
Primary = 3.68 cfs @ 12.09 hrs, Volume= 0.279 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 314.21' @ 12.09 hrs
Flood Elev= 316.20'

Summary for Pond 58P: DMH-213

Inflow Area = 1.495 ac, 56.69% Impervious, Inflow Depth = 5.86" for 100-year event
Inflow = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af
Outflow = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af, Atten= 0%, Lag= 0.0 min
Primary = 9.39 cfs @ 12.09 hrs, Volume= 0.730 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 308.20' @ 12.09 hrs
Flood Elev= 309.60'

Summary for Pond 59P: DMH-212

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 5.72" for 100-year event
Inflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af
Outflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af, Atten= 0%, Lag= 0.0 min
Primary = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 292.90' @ 12.09 hrs
Flood Elev= 294.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.50'	18.0" Round Culvert

L= 226.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 305.50' / 290.20' S= 0.0677' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.15 cfs @ 12.09 hrs HW=308.11' (Free Discharge)
1=Culvert (Inlet Controls 9.15 cfs @ 5.18 fps)

Summary for Pond 59P: DMH-212

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 5.72" for 100-year event
Inflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af
Outflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af, Atten= 0%, Lag= 0.0 min
Primary = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 292.90' @ 12.09 hrs
Flood Elev= 294.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	289.70'	24.0" Round Culvert

L= 91.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 289.70' / 284.00' S= 0.0626' /' Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=17.30 cfs @ 12.09 hrs HW=292.80' (Free Discharge)
1=Culvert (Inlet Controls 17.30 cfs @ 5.51 fps)

Summary for Pond 60P: CB-214

Inflow Area = 0.813 ac, 37.89% Impervious, Inflow Depth = 5.48" for 100-year event
Inflow = 4.91 cfs @ 12.09 hrs, Volume= 0.371 af
Outflow = 4.91 cfs @ 12.09 hrs, Volume= 0.371 af, Atten= 0%, Lag= 0.0 min
Primary = 4.91 cfs @ 12.09 hrs, Volume= 0.371 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 293.70' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 10.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0300 '/ S= 0.0300 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.79 cfs @ 12.09 hrs HW=293.57' (Free Discharge)
1=Culvert (Inlet Controls 4.79 cfs @ 6.10 fps)

Summary for Pond 61P: CB-215

Inflow Area = 0.554 ac, 52.20% Impervious, Inflow Depth = 5.71" for 100-year event
Inflow = 3.44 cfs @ 12.09 hrs, Volume= 0.263 af
Outflow = 3.44 cfs @ 12.09 hrs, Volume= 0.263 af, Atten= 0%, Lag= 0.0 min
Primary = 3.44 cfs @ 12.09 hrs, Volume= 0.263 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 292.32' @ 12.09 hrs
Flood Elev= 294.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	290.50'	12.0" Round Culvert

L= 19.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 290.50' / 290.20' S= 0.0158 '/ S= 0.0158 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.35 cfs @ 12.09 hrs HW=292.26' (Free Discharge)
1=Culvert (Inlet Controls 3.35 cfs @ 4.27 fps)

Summary for Pond 62P: DMH-211

Inflow Area = 2.861 ac, 50.48% Impervious, Inflow Depth = 5.72" for 100-year event
Inflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af
Outflow = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af, Atten= 0%, Lag= 0.0 min
Primary = 17.74 cfs @ 12.09 hrs, Volume= 1.364 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 287.10' @ 12.09 hrs
Flood Elev= 288.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	283.90'	24.0" Round Culvert

L= 144.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 283.90' / 277.00' S= 0.0479 '/ S= 0.0479 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=17.30 cfs @ 12.09 hrs HW=287.00' (Free Discharge)
1=Culvert (Inlet Controls 17.30 cfs @ 5.51 fps)

Summary for Pond 63P: FIELD INLET-202

Inflow Area = 2.746 ac, 10.00% Impervious, Inflow Depth = 4.81" for 100-year event
Inflow = 13.42 cfs @ 12.13 hrs, Volume= 1.099 af
Outflow = 13.42 cfs @ 12.13 hrs, Volume= 1.099 af, Atten= 0%, Lag= 0.0 min
Primary = 13.42 cfs @ 12.13 hrs, Volume= 1.099 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 303.06' @ 12.13 hrs
Flood Elev= 304.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	300.80'	24.0" Round Culvert

L= 137.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 300.80' / 297.70' S= 0.0226 '/ S= 0.0226 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.14 cfs @ 12.13 hrs HW=303.01' (Free Discharge)
1=Culvert (Inlet Controls 13.14 cfs @ 4.18 fps)

Summary for Pond 66P: CB-222

Inflow Area = 1.065 ac, 25.32% Impervious, Inflow Depth = 3.41" for 100-year event
Inflow = 3.79 cfs @ 12.13 hrs, Volume= 0.303 af
Outflow = 3.79 cfs @ 12.13 hrs, Volume= 0.303 af, Atten= 0%, Lag= 0.0 min
Primary = 3.79 cfs @ 12.13 hrs, Volume= 0.303 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 284.51' @ 12.13 hrs
Flood Elev= 286.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	282.40'	12.0" Round Culvert

L= 29.0' CPP, projecting, no headwall, Ke= 0.900
Inlet / Outlet Invert= 282.40' / 281.80' S= 0.0207 '/ S= 0.0207 '/ Cc= 0.900
n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.71 cfs @ 12.13 hrs HW=284.45' (Free Discharge)
1=Culvert (Inlet Controls 3.71 cfs @ 4.73 fps)

Summary for Pond 71P: FIELD INLET-203

Inflow Area = 3.312 ac, 0.00% Impervious, Inflow Depth = 2.80" for 100-year event
Inflow = 9.29 cfs @ 12.15 hrs, Volume= 0.773 af
Outflow = 9.29 cfs @ 12.15 hrs, Volume= 0.773 af, Atten= 0%, Lag= 0.0 min
Primary = 9.29 cfs @ 12.15 hrs, Volume= 0.773 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 281.46' @ 12.15 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	18.0" Round Culvert L= 28.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0821 '7' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.22 cfs @ 12.15 hrs HW=281.43' (Free Discharge)
1=Culvert (Inlet Controls 9.22 cfs @ 5.22 fps)

Summary for Pond 72P: FIELD INLET-204

Inflow Area = 1.632 ac, 0.00% Impervious, Inflow Depth = 1.58" for 100-year event
Inflow = 2.54 cfs @ 12.11 hrs, Volume= 0.215 af
Outflow = 2.54 cfs @ 12.11 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min
Primary = 2.54 cfs @ 12.11 hrs, Volume= 0.215 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.65' @ 12.11 hrs
Flood Elev= 282.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.80'	18.0" Round Culvert L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 278.80' / 276.50' S= 0.0460 '7' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.49 cfs @ 12.11 hrs HW=279.64' (Free Discharge)
1=Culvert (Inlet Controls 2.49 cfs @ 2.46 fps)

Summary for Pond 73P: DMH-219

Inflow Area = 4.944 ac, 0.00% Impervious, Inflow Depth = 2.40" for 100-year event
Inflow = 11.60 cfs @ 12.14 hrs, Volume= 0.988 af
Outflow = 11.60 cfs @ 12.14 hrs, Volume= 0.988 af, Atten= 0%, Lag= 0.0 min
Primary = 11.60 cfs @ 12.14 hrs, Volume= 0.988 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 279.73' @ 12.14 hrs
Flood Elev= 284.00'

Device Routing Invert Outlet Devices

#1	Primary	276.00'	18.0" Round Culvert L= 86.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 276.00' / 272.00' S= 0.0465 '7' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf
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Primary OutFlow Max=11.41 cfs @ 12.14 hrs HW=279.64' (Free Discharge)
1=Culvert (Inlet Controls 11.41 cfs @ 6.46 fps)

Summary for Link DP-A: DESIGN POINT-A

Inflow Area = 45.512 ac, 12.17% Impervious, Inflow Depth = 2.24" for 100-year event
Inflow = 54.10 cfs @ 12.18 hrs, Volume= 8.504 af
Primary = 54.10 cfs @ 12.18 hrs, Volume= 8.504 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link DP-B: DESIGN POINT-B

Inflow Area = 20.745 ac, 1.38% Impervious, Inflow Depth = 1.62" for 100-year event
Inflow = 30.06 cfs @ 12.12 hrs, Volume= 2.809 af
Primary = 30.06 cfs @ 12.12 hrs, Volume= 2.809 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Appendix F – Stormwater Calculations

Infiltration Basin #1

Stormwater Recharge Calculations

CALCULATIONS

Recharge Volume, Rv:

$R_v = A_c \times F$

Hydrologic Soil Group	Impervious Area (Ac) ¹	Target Depth (F)	Recharge Volume (Rv) Ac-feet
A	0.166	0.6	0.008
Total	0.166		0.008

Total Recharge Volume Required = 0.008 Ac-ft
Total Recharge Volume Required (Rv) = 362 C.ft
*Recharge Vol. Provided (from Infil. Basin 1) = 27,464.0 C.ft

Required Sediment Forebay vol, Fv:

$F_v = A_c (cu. ft) \times 0.1 inch$ of impervious area

¹ Imp. area captured by ponds, Ap = 0.166 Ac
Required Sediment Forebay vol, Fv= 60 C.ft

Sediment Forebay Volume Provided = 105 C.ft

Drawdown Calculations

CALCULATIONS

Proposed Infiltration Area Calculations:

$Drawdown = \frac{R_v}{(Rawls Rate)(Bottom Area)}$

Drawdown Calculations:

Soil Texture: 2 Loamy Sand

² Bottom Surface Area (A): 111 SF
Rawls Rate: 2.41 in/hr
Total Recharge Volume Required = 362 C.ft
Drawdown: 16.22 hr
Drawdown is less than 72 Hours as Required

NOTES:

Input Values

¹ = Refer to Proposed Conditions HydroCAD modeling report

REFERENCES

Table 2.3.2: Recharge Target Depth by Hydrologic Soil Group

NRCS Hydrologic Soil Group	Approx. Soil Texture	Target Depth Factor (F)
A	sand	0.6 inch
B	loam	0.35 inch
C	silty loam	0.25 inch
D	clay	0.1 inch

REFERENCES

Table 2.3.3: 1982 Rawls Rates

Texture Class	NRCS Hydrologic Soil Group	Infiltration Rate
1 Sand	A	8.27 in/hr
2 Loamy Sand	A	2.41 in/hr
3 Sandy Loam	B	1.02 in/hr
4 Loam	B	0.52 in/hr
5 Silt Loam	C	0.27 in/hr
6 Sandy Clay Loam	C	0.17 in/hr
7 Clay Loam	D	0.09 in/hr
8 Silty Clay Loam	D	0.06 in/hr
9 Sandy Clay	D	0.05 in/hr
10 Silty Clay	D	0.04 in/hr
11 Clay	D	0.02 in/hr

Stage-Area-Storage for Pond 1P: INFIL. BASIN #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
254.54	6,430	24,397
254.57	6,460	24,591
254.60	6,491	24,785
254.63	6,522	24,980
254.66	6,552	25,176
254.69	6,583	25,373
254.72	6,614	25,571
254.75	6,645	25,770
254.78	6,676	25,970
254.81	6,707	26,171
254.84	6,738	26,372
254.87	6,769	26,575
254.90	6,800	26,778
254.93	6,832	26,983
254.96	6,863	27,188
254.99	6,895	27,395
255.02	6,926	27,602
255.05	6,958	27,810
255.08	6,989	28,019
255.11	7,021	28,230
255.14	7,053	28,441
255.17	7,085	28,653
255.20	7,117	28,866
255.23	7,149	29,080
255.26	7,181	29,295
255.29	7,213	29,511
255.32	7,245	29,727
255.35	7,278	29,945
255.38	7,310	30,164
255.41	7,343	30,384
255.44	7,375	30,605
255.47	7,408	30,826
255.50	7,441	31,049
255.53	7,473	31,273
255.56	7,506	31,498
255.59	7,539	31,723
255.62	7,572	31,950
255.65	7,605	32,178
255.68	7,638	32,406
255.71	7,671	32,636
255.74	7,705	32,866
255.77	7,738	33,098
255.80	7,771	33,331
255.83	7,805	33,564
255.86	7,838	33,799
255.89	7,872	34,035
255.92	7,906	34,271
255.95	7,940	34,509
255.98	7,973	34,748

LOWEST OUTLET
ELEVATION = 255.0
27,464 CF



Infiltration Basin #1-A

Stormwater Recharge Calculations

CALCULATIONS

Recharge Volume, Rv:

$R_v = A_c \times F$

Hydrologic Soil Group	Impervious Area (Ac) ¹	Target Depth (F)	Recharge Volume (Rv) Ac-feet
A	0.165	0.6	0.008
D	0.107	0.1	0.001
Total	0.272		0.009

Total Recharge Volume Required = 0.009 Ac-ft
Total Recharge Volume Required (Rv) = 398 C.ft
*Recharge Vol. Provided (from Infil. Basin 1) = 8,019.0 C.ft

Required Sediment Forebay vol, Fv:

$F_v = A_c (cu. ft) \times 0.1 inch$ of impervious area

¹ Imp. area captured by ponds, Ap = 0.272 Ac
Required Sediment Forebay vol, Fv= 99 C.ft

Sediment Forebay Volume Provided = 1,395 C.ft

Drawdown Calculations

CALCULATIONS

Proposed Infiltration Area Calculations:

$Drawdown = \frac{R_v}{(Rawls Rate)(Bottom Area)}$

Drawdown Calculations:

Soil Texture: 2 Loamy Sand

² Bottom Surface Area (A): 2,451 SF
Rawls Rate: 2.41 in/hr
Total Recharge Volume Required = 398 C.ft
Drawdown: 0.81 hr
Drawdown is less than 72 Hours as Required

NOTES:

Input Values

¹ = Refer to Proposed Conditions HydroCAD modeling report

REFERENCES

Table 2.3.2: Recharge Target Depth by Hydrologic Soil Group

NRCS Hydrologic Soil Group	Approx. Soil Texture	Target Depth Factor (F)
A	sand	0.6 inch
B	loam	0.35 inch
C	silty loam	0.25 inch
D	clay	0.1 inch

REFERENCES

Table 2.3.3: 1982 Rawls Rates

Texture Class	NRCS Hydrologic Soil Group	Infiltration Rate
1 Sand	A	8.27 in/hr
2 Loamy Sand	A	2.41 in/hr
3 Sandy Loam	B	1.02 in/hr
4 Loam	B	0.52 in/hr
5 Silt Loam	C	0.27 in/hr
6 Sandy Clay Loam	C	0.17 in/hr
7 Clay Loam	D	0.09 in/hr
8 Silty Clay Loam	D	0.06 in/hr
9 Sandy Clay	D	0.05 in/hr
10 Silty Clay	D	0.04 in/hr
11 Clay	D	0.02 in/hr

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Type III 24-hr 100-year Rainfall=7.00"

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Stage-Area-Storage for Pond 2P: INFILTRATION BASIN #1-A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
255.12	3,761	6,540	255.65	4,128	8,630
255.13	3,768	6,578	255.66	4,135	8,671
255.14	3,774	6,615	255.67	4,142	8,713
255.15	3,781	6,653	255.68	4,149	8,754
255.16	3,788	6,691	255.69	4,156	8,796
255.17	3,795	6,729	255.70	4,164	8,837
255.18	3,802	6,767	255.71	4,171	8,879
255.19	3,808	6,805	255.72	4,178	8,921
255.20	3,815	6,843	255.73	4,185	8,962
255.21	3,822	6,881	255.74	4,192	9,004
255.22	3,829	6,920	255.75	4,199	9,046
255.23	3,836	6,958	255.76	4,206	9,088
255.24	3,842	6,996	255.77	4,214	9,130
255.25	3,849	7,035	255.78	4,221	9,173
255.26	3,856	7,073	255.79	4,228	9,215
255.27	3,863	7,112	255.80	4,235	9,257
255.28	3,870	7,151	255.81	4,242	9,299
255.29	3,877	7,189	255.82	4,250	9,342
255.30	3,884	7,228	255.83	4,257	9,384
255.31	3,890	7,267	255.84	4,264	9,427
255.32	3,897	7,306	255.85	4,271	9,470
255.33	3,904	7,345	255.86	4,278	9,513
255.34	3,911	7,384	255.87	4,286	9,555
255.35	3,918	7,423	255.88	4,293	9,598
255.36	3,925	7,462	255.89	4,300	9,641
255.37	3,932	7,502	255.90	4,307	9,684
255.38	3,939	7,541	255.91	4,315	9,727
255.39	3,946	7,580	255.92	4,322	9,771
255.40	3,953	7,620	255.93	4,329	9,814
255.41	3,960	7,659	255.94	4,336	9,857
255.42	3,967	7,699	255.95	4,344	9,900
255.43	3,974	7,739	255.96	4,351	9,944
255.44	3,980	7,779	255.97	4,358	9,988
255.45	3,987	7,818	255.98	4,365	10,031
255.46	3,994	7,858	255.99	4,373	10,075
255.47	4,001	7,898	256.00	4,380	10,119
255.48	4,008	7,938			
255.49	4,015	7,978			
255.50	4,022	8,019			
255.51	4,029	8,059			
255.52	4,036	8,099			
255.53	4,043	8,140			
255.54	4,050	8,180			
255.55	4,057	8,221			
255.56	4,064	8,261			
255.57	4,072	8,302			
255.58	4,079	8,343			
255.59	4,086	8,383			
255.60	4,093	8,424			
255.61	4,100	8,465			
255.62	4,107	8,506			
255.63	4,114	8,547			
255.64	4,121	8,589			

LOWEST OUTLET
ELEVATION = 255.5
8,019 CF

Infiltration Area #2

Stormwater Recharge Calculations

CALCULATIONS

Recharge Volume, Rv:

$$R_v = A_c \times F$$

Hydrologic Soil Group	Impervious Area (Ac) ¹	Target Depth (F)	Recharge Volume (Rv) Ac-feet
A	0.954	0.6	0.048
D	3.086	0.1	0.026
Total	4.040		0.073

Total Recharge Volume Required = 0.073 Ac-ft

Total Recharge Volume Required (Rv) = 3,198 C.ft

*Recharge Vol. Provided (from Infil. Area 2) = 3,263.0 C.ft

Required Sediment Forebay vol, Fv:

$$F_v = A_c (cu. ft) \times 0.1 inch \text{ of impervious area}$$

¹ Imp. area captured by ponds, Ap = 4.040 Ac

Required Sediment Forebay vol, Fv= 1,467 C.ft

Sediment Forebay Volume Provided = 1,493.0 C.ft

Drawdown Calculations

CALCULATIONS

Proposed Infiltration Area Calculations:

$$Drawdown = \frac{R_v}{(Rawls \ Rate)(Bottom \ Area)}$$

Drawdown Calculations:

Soil Texture: 2 Loamy Sand

² Bottom Surface Area (A): 3,149 SF

Rawls Rate: 2.41 in/hr

Total Recharge Volume Required = 3,198 C.ft

Drawdown: 5.06 hr

Drawdown is less than 72 Hours as Required

NOTES:

Input Values

¹ = Refer to Proposed Conditions HydroCAD modeling report

REFERENCES

Table 2.3.2: Recharge Target Depth by Hydrologic Soil Group

NRCS Hydrologic Soil Group	Approx. Soil Texture	Target Depth Factor (F)
A	sand	0.6 inch
B	loam	0.35 inch
C	silty loam	0.25 inch
D	clay	0.1 inch

REFERENCES

Table 2.3.3: 1982 Rawls Rates

Texture Class	NRCS Hydrologic Soil Group	Infiltration Rate
1 Sand	A	8.27 in/hr
2 Loamy Sand	A	2.41 in/hr
3 Sandy Loam	B	1.02 in/hr
4 Loam	B	0.52 in/hr
5 Silt Loam	C	0.27 in/hr
6 Sandy Clay Loam	C	0.17 in/hr
7 Clay Loam	D	0.09 in/hr
8 Silty Clay Loam	D	0.06 in/hr
9 Sandy Clay	D	0.05 in/hr
10 Silty Clay	D	0.04 in/hr
11 Clay	D	0.02 in/hr

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Type III 24-hr 100-year Rainfall=7.00"

Prepared by {enter your company name here}

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Stage-Area-Storage for Pond 3P: INFIL. BASIN #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
263.00	3,149	0	264.59	4,281	5,889
263.03	3,169	95	264.62	4,304	6,018
263.06	3,189	190	264.65	4,326	6,147
263.09	3,209	286	264.68	4,349	6,277
263.12	3,229	383	264.71	4,372	6,408
263.15	3,249	480	264.74	4,395	6,539
263.18	3,269	578	264.77	4,418	6,672
263.21	3,290	676	264.80	4,441	6,805
263.24	3,310	775	264.83	4,464	6,938
263.27	3,331	875	264.86	4,487	7,072
263.30	3,351	975	264.89	4,511	7,207
263.33	3,372	1,076	264.92	4,534	7,343
263.36	3,392	1,177	264.95	4,557	7,479
263.39	3,413	1,279	264.98	4,581	7,616
263.42	3,434	1,382	265.01	4,604	7,754
263.45	3,454	1,485	265.04	4,628	7,893
263.48	3,475	1,589	265.07	4,651	8,032
263.51	3,496	1,694	265.10	4,675	8,172
263.54	3,517	1,799	265.13	4,698	8,312
263.57	3,538	1,905	265.16	4,722	8,454
263.60	3,559	2,011	265.19	4,746	8,596
263.63	3,581	2,118	265.22	4,770	8,738
263.66	3,602	2,226	265.25	4,794	8,882
263.69	3,623	2,334	265.28	4,818	9,026
263.72	3,645	2,443	265.31	4,842	9,171
263.75	3,666	2,553	265.34	4,866	9,317
263.78	3,687	2,663	265.37	4,890	9,463
263.81	3,709	2,774	265.40	4,915	9,610
263.84	3,731	2,886	265.43	4,939	9,758
263.87	3,752	2,998	265.46	4,963	9,906
263.90	3,774	3,111	265.49	4,988	10,056
263.93	3,796	3,225	265.52	5,012	10,206
263.96	3,818	3,339	265.55	5,037	10,356
263.99	3,840	3,454	265.58	5,061	10,508
264.02	3,861	3,569	265.61	5,086	10,660
264.05	3,883	3,685	265.64	5,111	10,813
264.08	3,904	3,802	265.67	5,135	10,967
264.11	3,926	3,920	265.70	5,160	11,121
264.14	3,948	4,038	265.73	5,185	11,276
264.17	3,970	4,157	265.76	5,210	11,432
264.20	3,992	4,276	265.79	5,235	11,589
264.23	4,013	4,396	265.82	5,260	11,746
264.26	4,035	4,517	265.85	5,285	11,904
264.29	4,057	4,638	265.88	5,311	12,063
264.32	4,079	4,760	265.91	5,336	12,223
264.35	4,102	4,883	265.94	5,361	12,384
264.38	4,124	5,006	265.97	5,387	12,545
264.41	4,146	5,130	266.00	5,412	12,707
264.44	4,168	5,255	266.03	5,437	12,870
264.47	4,191	5,380	266.06	5,462	13,033
264.50	4,213	5,507	266.09	5,487	13,197
264.53	4,236	5,633	266.12	5,512	13,362
264.56	4,258	5,761	266.15	5,537	13,528

LOWEST OUTLET
ELEVATION = 263.94
3,263 CF

Infiltration Area #3

Stormwater Recharge Calculations

CALCULATIONS

Recharge Volume, Rv:

$R_v = A_c \times F$

Hydrologic Soil Group	Impervious Area (Ac) ¹	Target Depth (F)	Recharge Volume (Rv) Ac-feet
D	0.913	0.1	0.008
Total	0.913		0.008

Total Recharge Volume Required = 0.008 Ac-ft
Total Recharge Volume Required (Rv) = 331 C.ft
*Recharge Vol. Provided (from Infil. Area 3) = 8,864.0 C.ft

Required Sediment Forebay vol, Fv:

$F_v = A_c (cu.ft) \times 0.1inch$ of impervious area

¹ Imp. area captured by ponds, Ap = 0.913 Ac
Required Sediment Forebay vol, Fv= 331 C.ft

Sediment Forebay Volume Provided = 679.0 C.ft

Drawdown Calculations

CALCULATIONS

Proposed Infiltration Area Calculations:

$Drawdown = \frac{R_v}{(Rawls\ Rate)(Bottom\ Area)}$

Drawdown Calculations:

Soil Texture: 3 Sandy Loam

² Bottom Surface Area (A): 1,767 SF
Rawls Rate: 1.02 in/hr
Total Recharge Volume Required = 331 C.ft
Drawdown: 2.21 hr
Drawdown is less than 72 Hours as Required

NOTES:

Input Values

¹ = Refer to Proposed Conditions HydroCAD modeling report

REFERENCES

Table 2.3.2: Recharge Target Depth by Hydrologic Soil Group

NRCS Hydrologic Soil Group	Approx. Soil Texture	Target Depth Factor (F)
A	sand	0.6 inch
B	loam	0.35 inch
C	silty loam	0.25 inch
D	clay	0.1 inch

REFERENCES

Table 2.3.3: 1982 Rawls Rates

Texture Class	NRCS Hydrologic Soil Group	Infiltration Rate
1 Sand	A	8.27 in/hr
2 Loamy Sand	A	2.41 in/hr
3 Sandy Loam	B	1.02 in/hr
4 Loam	B	0.52 in/hr
5 Silt Loam	C	0.27 in/hr
6 Sandy Clay Loam	C	0.17 in/hr
7 Clay Loam	D	0.09 in/hr
8 Silty Clay Loam	D	0.06 in/hr
9 Sandy Clay	D	0.05 in/hr
10 Silty Clay	D	0.04 in/hr
11 Clay	D	0.02 in/hr

6083 - POST 2023 rev1

Type III 24-hr 100-year Rainfall=7.00"

Prepared by {enter your company name here}

HydroCAD® 10.10-3a s/n 03590 © 2020 HydroCAD Software Solutions LLC

Stage-Area-Storage for Pond 6P: INFIL. BASIN #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
312.00	1,767	0	317.30	6,204	20,725
312.10	1,836	180	317.40	6,301	21,350
312.20	1,907	367	317.50	6,398	21,985
312.30	1,979	562	317.60	6,497	22,630
312.40	2,052	763	317.70	6,596	23,285
312.50	2,127	972	317.80	6,696	23,949
312.60	2,202	1,188	317.90	6,797	24,624
312.70	2,280	1,413	318.00	6,898	25,309
312.80	2,358	1,644	318.10	6,996	26,003
312.90	2,438	1,884	318.20	7,094	26,708
313.00	2,519	2,132	318.30	7,194	27,422
313.10	2,602	2,388	318.40	7,294	28,147
313.20	2,686	2,653	318.50	7,394	28,881
313.30	2,771	2,925	318.60	7,496	29,625
313.40	2,858	3,207	318.70	7,598	30,380
313.50	2,946	3,497	318.80	7,700	31,145
313.60	3,035	3,796	318.90	7,804	31,920
313.70	3,125	4,104	319.00	7,908	32,706
313.80	3,217	4,421	319.10	8,013	33,502
313.90	3,310	4,747	319.20	8,118	34,308
314.00	3,405	5,083	319.30	8,224	35,126
314.10	3,478	5,427	319.40	8,331	35,953
314.20	3,552	5,779	319.50	8,439	36,792
314.30	3,626	6,138	319.60	8,547	37,641
314.40	3,702	6,504	319.70	8,656	38,501
314.50	3,778	6,878	319.80	8,766	39,372
314.60	3,855	7,260	319.90	8,876	40,254
314.70	3,932	7,649	320.00	8,987	41,148
314.80	4,011	8,046			
314.90	4,090	8,451			
315.00	4,170	8,864			
315.10	4,251	9,285			
315.20	4,332	9,714			
315.30	4,414	10,152			
315.40	4,497	10,597			
315.50	4,581	11,051			
315.60	4,666	11,513			
315.70	4,751	11,984			
315.80	4,837	12,464			
315.90	4,924	12,952			
316.00	5,012	13,449			
316.10	5,099	13,954			
316.20	5,187	14,469			
316.30	5,276	14,992			
316.40	5,365	15,524			
316.50	5,455	16,065			
316.60	5,546	16,615			
316.70	5,638	17,174			
316.80	5,730	17,742			
316.90	5,824	18,320			
317.00	5,917	18,907			
317.10	6,012	19,504			
317.20	6,108	20,110			

LOWEST OUTLET
ELEVATION = 315.00
8,864 CF

INSTRUCTIONS:

Version 1, Automated: Mar. 4, 2008

1. In BMP Column, click on Blue Cell to Activate Drop Down Menu
2. Select BMP from Drop Down Menu
3. After BMP is selected, TSS Removal and other Columns are automatically completed.

Location: TSS removal with pretreatment calculation.

**TSS Removal
Calculation
Worksheet**

B BMP ¹	C TSS Removal Rate ¹	D Starting TSS Load*	E Amount Removed (C*D)	F Remaining Load (D-E)
Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
Sediment Forebay	0.25	0.75	0.19	0.56
	0.00	0.56	0.00	0.56
	0.00	0.56	0.00	0.56
	0.00	0.56	0.00	0.56

Total TSS Removal =

44%

**Separate Form needs to be
Completed for Each Outlet or
BMP Train**

Project: Stratton Hill
Prepared By: RPV
Date: 25-Apr-23

*Equals remaining load from previous BMP (E)
which enters the BMP

INSTRUCTIONS:

Version 1, Automated: Mar. 4, 2008

1. In BMP Column, click on Blue Cell to Activate Drop Down Menu
2. Select BMP from Drop Down Menu
3. After BMP is selected, TSS Removal and other Columns are automatically completed.

Location: TSS removal for overall site.

TSS Removal
Calculation
Worksheet

B BMP ¹	C TSS Removal Rate ¹	D Starting TSS Load*	E Amount Removed (C*D)	F Remaining Load (D-E)
Deep Sump and Hooded Catch Basin	0.25	1.00	0.25	0.75
Infiltration Basin	0.80	0.75	0.60	0.15
	0.00	0.15	0.00	0.15
	0.00	0.15	0.00	0.15
	0.00	0.15	0.00	0.15

Total TSS Removal =

85%

Separate Form needs to be
Completed for Each Outlet or
BMP Train

Project: Stratton Hill
Prepared By: RPV
Date: 25-Apr-23

*Equals remaining load from previous BMP (E)
which enters the BMP

Appendix G – Construction Period Pollution Prevention

The project is covered under the National Pollutant Discharge Elimination System (NPDES) Construction General Permit, which will be submitted in place of the Construction Period Pollution Prevention Plan, prior to any land disturbance.

Appendix H - Operation and Maintenance Plan

STORMWATER OPERATION & MAINTENANCE MANUAL

STRATTON HILL

**WRIGHT ROAD
AYER, MASSACHUSETTS**

Prepared For: FOX MEADOW REALTY CORP.
129 SKYFIELDS DRIVE
GROTON, MA 01450

Prepared By: DILLIS & ROY CIVIL DESIGN GROUP, INC.
1 MAIN STREET, SUITE 1
LUNENBURG, MA 01462

**April 25th, 2023
6083**

TABLE OF CONTENTS:

1.0 Project Narrative

- 1.1 Overview of Drainage System*
- 1.2 Routine Operation & Maintenance Tasks*
- 1.3 O&M Schedule*

2.0 Appendices

Appendix A – Stormwater Management System Owners/Operators

1.0 Project Narrative

1.1 Proposed Stormwater Management System

The proposed stormwater management system was designed to reduce the peak rate of stormwater leaving the site, promote groundwater recharge, and increase the water quality. Runoff from the proposed development will be conveyed and treated using sedimentation forebays & infiltration basins.

Infiltration Basin with Sediment Forebay

Three infiltration basins with sediment forebays will treat the runoff. The volumes of the infiltration basins were designed to reduce runoff rates up to the 100-year storm event, infiltrate the required recharge volume and sized to handle the appropriate water quality volume. The basins are combined with sediment forebays. The sediment forebays are designed to reduce the velocity of flow which will increase the settlement of heavy solids before emptying to the basins. Riprap will also be installed at the inlet of the sediment forebays to reduce the potential for scouring.

Deep Sump Hooded Catch Basins

Deep sump hooded catch basins are proposed to convey the runoff from the proposed roadway & roofs to the infiltration basins. These catch basins will discharge to manholes and conventional storm drains.

1.2 Operation & Maintenance Tasks

The following activities should be performed routinely to allow for proper functioning of the stormwater system. The following are guidelines referring to each major component of the stormwater management system.

Street Sweeping

Street sweeping should be performed at least semiannually. For most effective results, sweeping should be performed by a vacuum style truck in the early spring before spring rain events can wash silt and sediment into the stormwater system. Silt and sediment should be disposed of in accordance with local, state and federal guidelines for hazardous waste.

Drain Manholes

Manholes shall be inspected semi-annually for signs of wear, settling, cracking or other fatigue. Manhole casting should be inspected for signs of root intrusion, or significant water infiltration. Manhole sumps should be checked for silt /sediment buildup and cleaned as necessary. Cleaning should be performed by a vacuum truck. Manholes should be resealed as

required and outlets should be inspected incidentally with all structure inspections.

Storm Drain Lines

Storm drainage inlets and outlets should be inspected incidentally with all structure inspections. Evidence of debris intrusion or excessive siltation or sedimentation could result in the need to clean a storm drain line. Flushing or jetting should be performed as required. All flushing and jetting should be performed in the direction away from any outlet devices. A vacuum truck should be used at the opposite end of the flushing or jetting to remove any silt or sediment that is cleaned from the storm drain.

Deep Sump Catch Basins

Deep sump catch basins shall be inspected at least semi-annually for signs of wear, settling, cracking or other fatigue. Catch basin castings should be inspected for signs of root intrusion, or significant water infiltration. Catch basin sump should be checked for silt/sediment buildup and cleaned as necessary. Cleaning should be performed by a vacuum truck. Catch basins should be resealed as required and outlets should be inspected incidentally with all structure inspections.

Infiltration Basins

Infiltration basins are stormwater runoff impoundments that are constructed over permeable soils and require pretreatment from sediment forebays. Runoff from the design storm is stored until it exfiltrates through the soil of the basin floor. The basins were located to capture most of the runoff from the impervious areas of the site.

Infiltration basins are prone to clogging and failure if proper maintenance is not scheduled. The basin should be inspected at least twice per year or after a major storm event to ensure that the basin is operating as intended. The outlet structures should be inspected for clogging or overflow release velocities that are causing scouring or erosion. The upper stage, side slopes, embankments and emergency spillway should be mowed twice a year.

Sediment Forebay

A sediment forebay is required as a pretreatment device prior to discharging stormwater to the extended dry detention basin. It will provide pretreatment by slowing stormwater runoff and increasing settlement of the sediment. The sediment forebay should be inspected monthly and cleaned of accumulated sediment on a quarterly basis. After sediment removal, repair any damaged vegetation by reseeding or

resodding. Maintain grass at a height of 4-6 inches.

Stone Rip Rap

The proposed swales have been designed with angular stone riprap. The stone riprap will be placed approximately 1-foot deep over Tencate Mirafi filter fabric.

Rip Rap should be inspected periodically for signs of failure. Such signs would include, undermining, high velocity wear (displacement of stones downstream), sliding, settlement, siltation, etc. Riprap should be repaired immediately upon the observation of such conditions mentioned.

Periodically, rip rap should be cleaned of silt. Siltation will be most prevalent in low velocity areas (such as directly up-stream of outlet control structures). Silt and sediment should be removed from these areas by hand.

Grass Swales

Swales should be checked for scouring, sloughing, erosion and/or accumulation of silt. The vegetation helps reduce velocity of runoff, which helps to maintain the swale, and encourages the sedimentation filtrations prior to exfiltration. Grass should be mowed and kept below 6 inches. Debris and trash should be removed as encountered.

O&M Schedule

O&M Task		Monthly	Quarterly	Spring	Fall	2-years	As-required
1.	Infiltration Basin						
	<i>Inspection</i>			x	x		x
	<i>Mowing</i>	3-4 times during the growing season					
	<i>Remove Debris</i>			x	x		x
	<i>Remove Sediment</i>						x
	<i>Re-seed</i>						x
2.	Sediment Forebay						
	<i>Inspection</i>	x		x	x		x
	<i>Mowing</i>	3-4 times during the growing season					
	<i>Remove Debris</i>		x				x
	<i>Remove Sediment</i>		x				x
	<i>Re-seed</i>						x
3.	Stone Rip Rap						
	<i>Inspection</i>			x			
	<i>Remove Debris</i>			x			x
	<i>Remove Silt/Sediment</i>					x	x
	<i>Repair</i>						x
4.	Storm drain Lines						
	<i>Inspection</i>			x			x
	<i>Clean</i>						x
5.	Catchbasins						
	<i>Inspection</i>			x	x		
	<i>Remove Debris</i>						x
	<i>Remove Silt/Sediment</i>						x
6.	Grass Swales						
	<i>Inspection</i>			x			x
	<i>Clean</i>			x			x
7.	Drain Manholes						
	<i>Inspect Rims</i>						
	<i>Inspect inside/inlet and outlet pipes</i>			x	x		
	<i>Remove sediment</i>					x	x

APPENDIX A

Stormwater Management System Owners/Operators

Stormwater Management System Owners/Operators

1. Stormwater Management System Owners: TBD
2. Current and future operators: TBD
3. Emergency contact information: TBD
4. Change of trustee: TBD
5. Financial Responsible Party: TBD
6. Routine Maintenance: TBD
7. O&M activities: TBD
8. Record keeping TBD

Appendix I - Long Term Pollution Prevention Plan

LONG TERM POLLUTION PREVENTION PLAN

STRATTON HILL

**WRIGHT ROAD
AYER, MASSACHUSETTS**

Prepared For: FOX MEADOW REALTY CORP.
129 SKYFIELDS DRIVE
GROTON, MA 01450

Prepared By: DILLIS & ROY CIVIL DESIGN GROUP, INC.
1 MAIN STREET, SUITE 1
LUNENBURG, MA 01462

**April 25th, 2023
6083**

1.0 Summary

This Long-Term Pollution Prevention Plan (LTPPP) has been prepared by Dillis & Roy Civil Design Group, Inc. pursuant to the Massachusetts Stormwater Regulations. The proposed development consists of the construction of a 37-unit Open Space Residential Development (OSRD) on the northerly side of Wright Road in Ayer.

The layout of the development including the roadways and the locations of buildings and stormwater systems have been carefully planned to minimize disturbance to the existing land and natural features. The stormwater management system has been designed in accordance with the Massachusetts Stormwater Regulations to provide pretreatment of the stormwater prior to discharge to the resource areas.

2.0 Spill Prevention Plan

No hazardous materials other than normal and common household items are expected to be stored on site after the construction period has ended.

It is expected that normal DEP notification procedures would be triggered for major spills such as home heating oil or propane and natural gas leaks.

3.0 Stormwater System O&M

A Stormwater Operation & Maintenance plan has been prepared for the proposed stormwater management system. Refer to this document for details pertaining to the required inspections, routine maintenance, and operation details.

Implementation of the stormwater operation and maintenance plan is critical in order for the site to function as designed, and for the protection of the downstream areas from the potential for scour and erosion.

Special care should be paid to the protection and maintenance of the existing and proposed catch basins that support the drainage system. Refer to the O&M Plan for specific instructions.

4.0 Fertilizers, herbicides and pesticides

Application of fertilizer, herbicides and pesticides shall be performed in a manner consistent with the industry standards for the application.

No application of chemicals is to be performed within the stormwater management areas on the site.

5.0 Snow/Salt Management

5.1 *Snow Plowing*

The roadway and driveways are designed to comply with the Town of Ayer Standards. It is expected that snow plowing practices and procedures will be used similar to those currently employed by Ayer residents.

5.2 *Street Sweeping*

The streets should be swept as needed to reduce the potential for silt build up in the drainage pipes and sump catch basins.

6.0 Waste Management

6.1 *Septic Systems*

On-site portable restrooms will be used during construction. The portable restrooms will be cleaned and maintained on a regular basis and disposal will be performed weekly or as required with a private or public waste removal company.

All portable restrooms will be removed after construction.

6.2 *Solid Waste*

It is expected that the homeowners will contact directly with a private or public waste removal company.

A dumpster will be located on the site during construction. This area will be the primary area for the on-site storage of solid waste prior to pick-up by a waste management company.

Stormwater Report
Stratton Hill

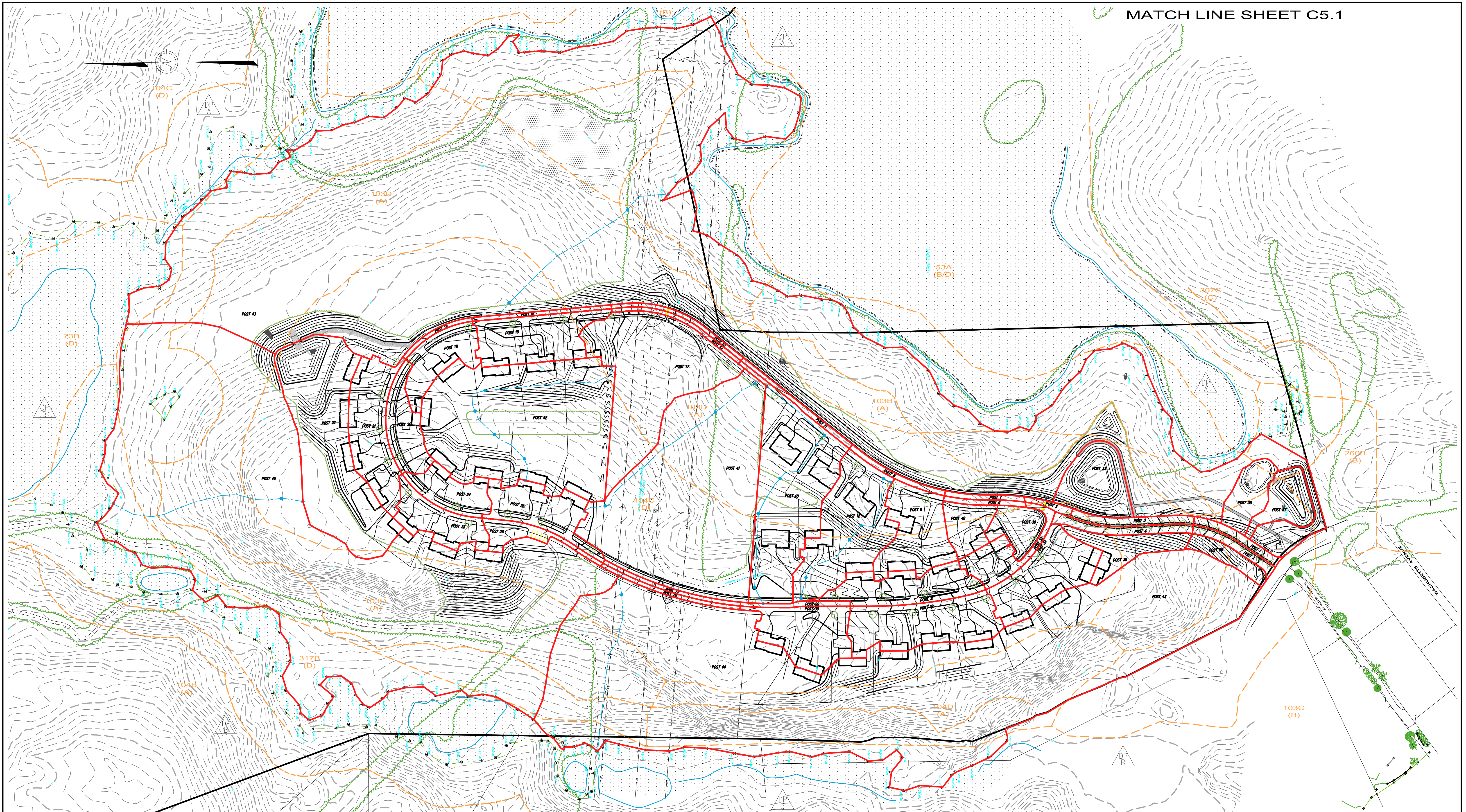
April 25th, 2023
Fox Meadow Realty Corp.

4.0 Plans

Pre-development Watershed Plan

Post-development Watershed Plan

MATCH LINE SHEET C5.1



RESERVED FOR REGISTRY USE

APPROVAL REQUIRED UNDER
THE SUBDIVISION CONTROL LAW
AYER PLANNING BOARD

BEING A MAJORITY
DATE APPROVED: _____
DATE ENDORSED: _____

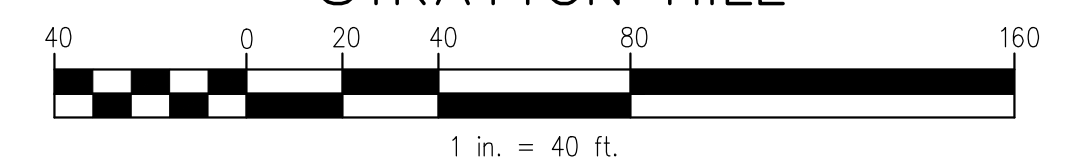


CIVIL ENGINEERS	LAND SURVEYORS	WETLAND CONSULTANTS
1 MAIN STREET, SUITE 1		PHONE: (978) 779-6091
LUNENBURG, MA 01462		www.dillisanndroy.com

PLAN REVISIONS

PLAN REVISIONS			
NO.	DATE:	DESCRIPTION:	BY:

**DEFINITIVE SUBDIVISION PLAN
AYER, MASSACHUSETTS
POST-DEVELOPED DRAINAGE MAP
STRATTON HILL**



DESIGN BY: RPV/FMM	DRAWN BY: RPV	CHECKED BY: FMM	SHEET NO. DRN
DATE: 4/25/2023	JOB NUMBER: 6083	DRAWING NO. 6083-DRN	