NHDES ALTERATION OF TERRAIN PERMIT APPLICATION & DRAINAGE ANALYSIS

Friars Drive

Map 209 Lot 001-000
Friars Drive – Sagamore Industrial Park
Hudson, New Hampshire 03051

PREPARED FOR:

Lowell Road Property Owner, LLC
133 Pearl Street #300
Boston, MA 02110

PREPARED BY:

The Dubay Group, Inc.
136 Harvey Road Bldg B101
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Date: October 4, 2021

Engineers **Planners** **Surveyors**

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NHDES Alteration of Terrain

I. APPLICATION

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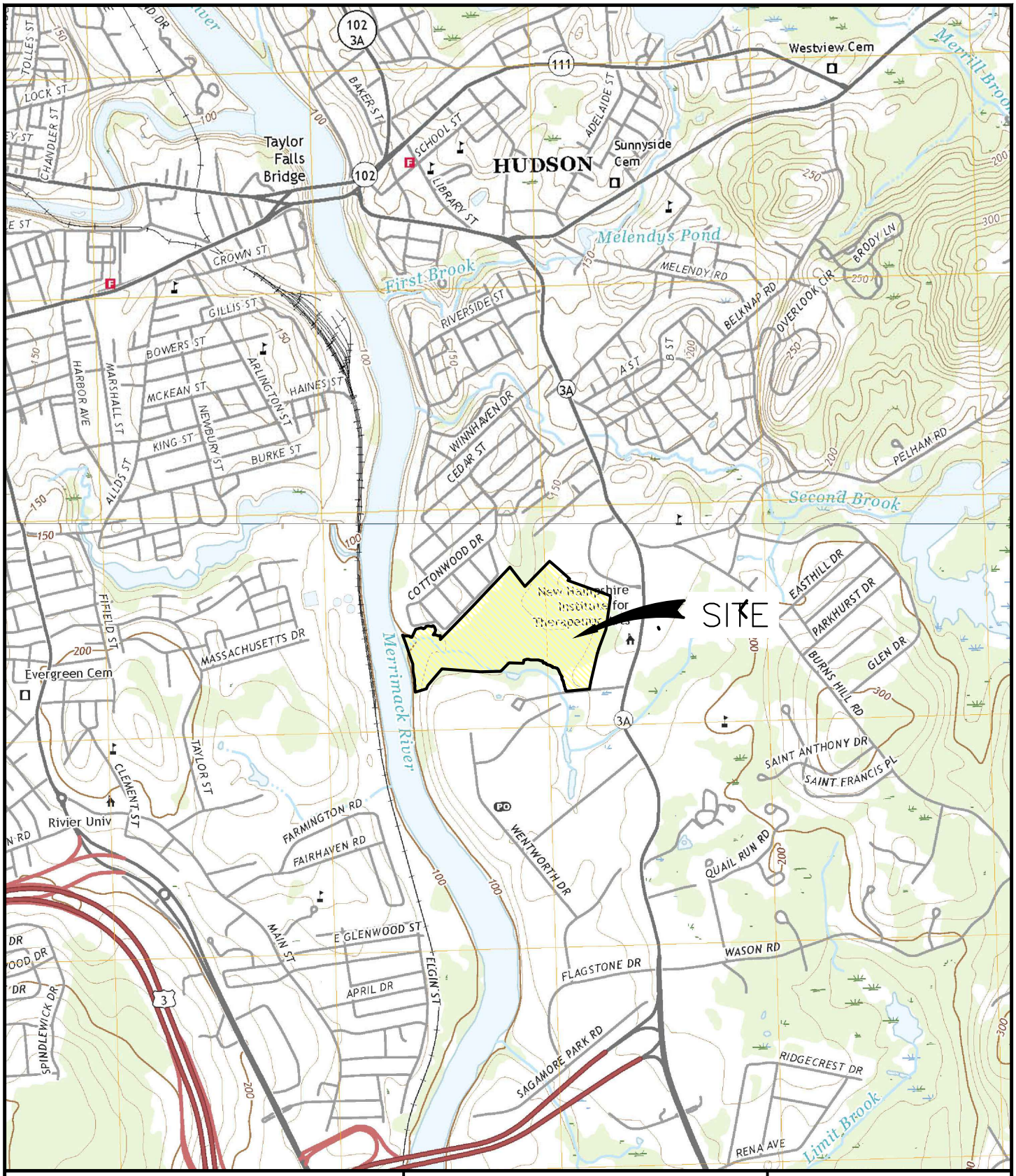
D. Copy of Proof of Delivery to Municipality

E. Application Checklist



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2000 0 1000 2000
1 inch = 2000 ft.

FRIARS DRIVE
TAX MAP 209 LOT 1

HUDSON, NH 03051

NASHUA SOUTH QUADRANGLE
NEW HAMPSHIRE–MASSACHUSETTS
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE:	USGS LOCATION MAP
DATE:	5/25/2021
SCALE:	1"=2000'
SHEET:	1 OF 1

NHDES Alteration of Terrain

II. STORMWATER MANAGEMENT REPORT NARRATIVE

A. Executive Summary

B. Existing Site Conditions

C. Proposed Site Conditions

D. Stormwater Treatment

E. Groundwater Recharge

I. STORMWATER MANAGEMENT REPORT NARRATIVE

A. Executive Summary

The purpose of this project is to develop Map 209 Lot 1, located on Friars Drive within the Sagamore Industrial Park in Hudson, New Hampshire. The project consists of one new commercial building. The site is located within the General and Industrial Zones, and the planned design meets Town Ordinances and Regulations. The site soils are SCS Hydrologic Soil Group "A". No wetlands or buffer impacts are proposed, no work is proposed along the Shoreland District.

The proposed drainage mitigation has been designed in accordance with NHDES requirements, specifically Chapter Env-Wq 1500. This design combines many Best Management Practices (BMP's) to collect, retain, treat, and infiltrate the stormwater. A detailed description of the BMP's used to treat the stormwater runoff and mitigation of the supplemental flow is outlined in the subsequent sections of the narrative and within other sections of this report.

B. Existing Site Conditions

The proposed project is located at Friars Drive in Hudson, NH. The site is mostly wooded with existing power line easements consuming the riverfront areas and existing sewer interceptor gravity main traversing the property.

Site location is detailed in *Section III. Supplemental Site Review Criteria* and consists of aerial photography, scs soil mapping, etc.

A Site-Specific Soil Survey was performed in 2021 by Gove Environmental Services, Inc. and our office. The site consists primarily of very well-drained soils. For the purposes of analysis, the proposed development area site soils are mainly classified as hydrologic group "A". A copy of the Site-Specific Soil Survey Report has been included in *Section V. Site Specific Soil Survey* of the report and color-coded soil map delineations have been included in *Section VIII. Drainage Area Plans* of the report.

Runoff from the site is directed primarily from the northeast toward the southwest. At most locations, the runoff naturally sheet flows across the site, following the undulating terrain, into areas that collect at the southern property line along Fuller Brook and to the westerly portions along the river. The area is primarily developed along both sides of the brook and river on adjacent parcels. Design points for a site are usually a wetland, swale, existing drainage structure, culvert, or simple area of natural sheet flow where a subject site discharges runoff onto an abutting property or right-of-way. These design points remain the same in the pre- and post-development conditions to provide a point of comparison in analyzing the peak runoff or volume change on a site. The design points evaluated in this report are summarized below:

Design Point #1: This design point is located at the northeast property corner where runoff

naturally sheet flows offsite to a natural depression.

Design Point #2: This design point is located at the Merrimack River. The area that flows to this design point remain undisturbed.

Design Point # 3: This design point is the main analysis point for the disturbed portion of the project located towards the western side of the property. The design point 3 is two (2) 4-foot culverts located in Fuller Brook.

Design Point #4: This design point is the northeastern property line which abuts single family residences.

Design Point #5: This design point is the norther portion of the property where Willard Street dead ends.

Design Point #6: This design point is located along the norther property line where the property abuts multi-family buildings.

C. Proposed Site Conditions

The proposed development consists of a single commercial 500 KSF and supporting infrastructure within the Sagamore Industrial Park. The soil for the majority of the property is excellent.

Much of the site drainage is collected via a closed drainage system which flows to two (2) infiltration ponds. The infiltration ponds provide treatment through ground infiltration as well as mitigate peak flows associated with large storm events. Emergency overflows are proposed to ensure the system functions properly during all storm events. The systems have been designed to fully mitigate the 50-year design storm (and other storms as required) for both peak flow and volume, as required by the Town of Hudson Stormwater Regulations and NHDES AOT Regulations.

The drainage tabulation on the following page outlines the pre- and post-development conditions. Runoff during post-development conditions have been decreased compared to the runoff from pre-development conditions in all design points except design point #2. This is simply due to a reduction of total area to that design point. The total runoff curve number (CN) is lowered by reducing the total area discharging to the design point, thus showing an increase in flows. There is a reduction in runoff to design point #3 and no discharge from the either pond during the 50-year storm event. The contributing area to design point #3 includes the majority of the proposed disturbed area.

NHDES Env-Wq 1507.06 - Peak Runoff Control, requires no increase in the peak flow rate of the site during the 2-year, 10-year, 25-year, and 50-year, 24-hour design storms for all design points on-site. Using the proposed infiltration practices and with the ability to store the excess runoff, the peak flows have been mitigated as required. The data provided demonstrates comparison of the pre- and post-development peak runoff flows.

Table 1- Pre vs. Post Runoff Analysis

Design Storm	Existing Conditions *Peak Flow Runoff Rate*	Developed Conditions *Peak Flow Runoff Rate*	Change
	DESIGN POINT #1		
	Node Label - L1	Node Label - L1	
2-Year	0.00	0.00	0.0
10-Year	0.00	0.00	0.0
25-Year	0.01	0.01	0.0
50-Year	0.03	0.03	0.0
	DESIGN POINT #2		
	Node Label – L2	Node Label – L2	
2-Year	0.02	0.02	0.0
10-Year	0.71	0.98	0.27
25-Year	3.34	4.16	0.82
50-Year	8.18	9.98	1.80
	DESIGN POINT #3		
	Node Label – L3	Node Label – L3	
2-Year	0.00	0.00	0.0
10-Year	0.10	0.08	-0.02
25-Year	0.69	0.45	-0.24
50-Year	2.53	1.81	-0.72
	DESIGN POINT #4		
	Node Label – L4	Node Label – L4	
2-Year	0.00	0.00	0.0
10-Year	0.00	0.00	0.0
25-Year	0.03	0.02	-0.01
50-Year	0.13	0.11	-0.02
	DESIGN POINT #5		
	Node Label – L5	Node Label – L5	
2-Year	0.00	0.00	0.0
10-Year	0.00	0.00	0.0
25-Year	0.02	0.01	-0.01
50-Year	0.10	0.04	-0.06
	DESIGN POINT #5		
	Node Label – L5	Node Label – L5	
2-Year	0.00	0.00	0.0
10-Year	0.00	0.00	0.0
25-Year	0.00	0.00	0.0
50-Year	0.01	0.01	0.0

NHDES Env-Wq 1507.05 – Channel Protection, requires mitigation to minimize the impact to downstream receiving waters and wetlands due to development. One acceptable approach is to show a reduction in runoff rate and not increase the post development volume over the pre-development volume by more than 0.1 acre-feet to the nearest water body during the 2-year storm event. All design points will show a reduction or equalization in runoff rate and volume for the proper design points.

Table 2- Pre vs. Post Runoff Volume Analysis

Design Storm	Existing Conditions *Peak Flow Runoff Volume*	Developed Conditions *Peak Flow Runoff Volume*	Change
	DESIGN POINT #1		
	Node Label - L1	Node Label - L1	
2-Year	0.0	0.0	0.0
	DESIGN POINT #2		
	Node Label – L2	Node Label – L2	
2-Year	546 (0.013 a-f)	618 (0.014 a-f)	+72 (0.001 a-f)
	DESIGN POINT #3		
	Node Label – L3	Node Label – L3	
2-Year	0.0	0.0	0.0
	DESIGN POINT #4		
	Node Label – L4	Node Label – L4	
2-Year	0.0	0.0	0.0
	DESIGN POINT #5		
	Node Label – L5	Node Label – L5	
2-Year	0.0	0.0	0.0
	DESIGN POINT #6		
	Node Label – L6	Node Label – L6	
2-Year	0.0	0.0	0.0

D. Stormwater Treatment

In the design of the subject site, utilizing approved Best Management Practices (BMP's) is critical in minimizing pollutant discharge to the various surface waters. This site has been designed in accordance with NHDES Env-Wq 1500 to meet the requirements for stormwater treatment. There are many acceptable methods to provide adequate treatment. This site utilizes pollutant removal through absorption of pollutants onto soil particles and biological/chemical uptake or decomposition within the infiltration practices and the in-situ soils to meet treatment. Additionally, the site utilizes detention practices (ponds) for portions of the site to detain the runoff, which allows for settling of particles/pollutants, and to meter the flow to the design points. Separate NHDES BMP worksheets are provided for each treatment practice within *Section IV. Stormwater Analysis* of the report.

E. Groundwater Recharge

In an effort to reduce the amount of runoff produced from a developed site, it is important to recharge water where possible. NHDES requires a calculated volume of water from a developed site be recharged. This volume is based on the area of development and the type of soils within that area. A copy of the Groundwater Recharge Volume (GRV) worksheet has been included within *Section IV. Stormwater Analysis* of the report.

Groundwater recharge is met by designing infiltration within multiple ponds. An acceptable way to confirm groundwater recharge is to use the 2-year discarded flow amount on-site. The discarded flows are outlined. Collectively, this results in an extensive volume of discarded flow

at the 2-year storm event. This exceeds the minimum requirements for the required gallons of storage.

Table 3- Pre vs. Post Discarded Volume Analysis

Pond	2-Year Discarded Volume (CF/*Gal*)	10-Year Discarded Volume (CF/*Gal*)	25-Year Discarded Volume (CF/*Gal*)	50-Year Discarded Volume (CF/*Gal*)
Infiltration Pond - PC	114,126 *853,721*	190,068 *1,421,807*	225,151 *1,684,246*	248,075 *1,855,730*
Infiltration Pond - PD	121,138 *906,175*	164,971 *1,124,069*	192,468 *1,439,761*	213,535 *1,597,353*
Total	**235,264 CF** ***1,759,896 Gal***	**355,039 CF** ***2,545,876 Gal***	**417,619 CF** ***3,124,007 Gal***	**461,610 CF** ***3,453,265 Gal***

NHDES Alteration of Terrain

III. SUPPLEMENTAL SITE REVIEW CRITERIA

A. Web GIS Printout - AoT Screening Layers & Surface Water Impairment

B. NHB Letter

C. Northeast Regional Climate Center Extreme Precipitation Tables

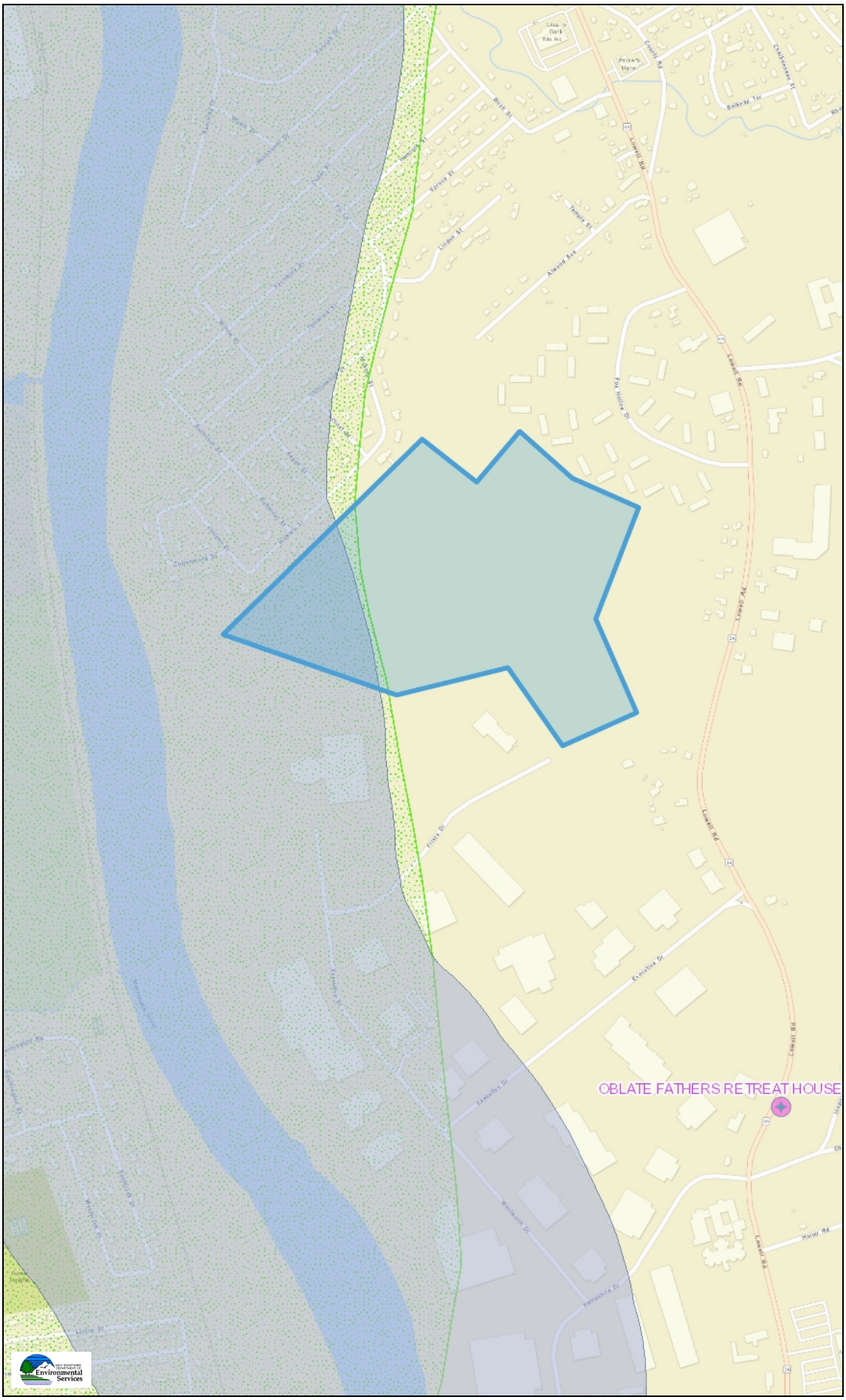
D. Web Soil Survey Map

E. Aerial Photograph

F. Site Photographs

G. Rip Rap Calculations

Friars Drive



Legend

- Designated Rivers Quarterm Buffer
- Public Water Supply Wells
- Groundwater Classification / GA1
- Groundwater Classification / GA2
- Water Supply Intake Protect Areas
- Wellhead Protection Areas
- Class A Lakes with a Quarte Buffer
- Class A - All Features
- All Lakes, with a Quarter Mil Buffer
- Outstanding Resource Wate Watersheds
- Surface Waters with Impairn 2016 with Quarter Mile Buffe
- Watersheds with Chloride Impairments 2016

Map Scale

1: 10,000

Map Generated: 10/1/2021

Notes

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	New Hampshire
Location	
Longitude	71.432 degrees West
Latitude	42.745 degrees North
Elevation	0 feet
Date/Time	Tue, 25 May 2021 08:30:32 -0400

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.27	0.42	0.52	0.68	0.85	1.07	**1yr**	0.74	1.01	1.24	1.56	1.97	2.48	2.72	**1yr**	2.20	2.62	3.05	3.74	4.36	**1yr**
2yr	0.33	0.51	0.64	0.84	1.06	1.33	**2yr**	0.91	1.22	1.53	1.91	2.38	2.96	3.29	**2yr**	2.62	3.17	3.68	4.40	5.00	**2yr**
5yr	0.39	0.61	0.77	1.03	1.32	1.67	**5yr**	1.14	1.52	1.94	2.42	3.01	3.74	4.19	**5yr**	3.31	4.03	4.66	5.53	6.25	**5yr**
10yr	0.44	0.70	0.88	1.20	1.56	1.99	**10yr**	1.34	1.80	2.32	2.91	3.61	4.47	5.02	**10yr**	3.95	4.83	5.57	6.57	7.40	**10yr**
25yr	0.53	0.84	1.06	1.47	1.95	2.51	**25yr**	1.68	2.25	2.93	3.68	4.58	5.65	6.40	**25yr**	5.00	6.15	7.07	8.26	9.26	**25yr**
50yr	0.59	0.95	1.22	1.71	2.31	3.01	**50yr**	1.99	2.67	3.53	4.43	5.49	6.75	7.68	**50yr**	5.97	7.39	8.47	9.82	10.98	**50yr**
100yr	0.68	1.10	1.42	2.01	2.74	3.59	**100yr**	2.36	3.17	4.21	5.30	6.57	8.07	9.23	**100yr**	7.14	8.88	10.15	11.69	13.01	**100yr**
200yr	0.77	1.26	1.64	2.35	3.25	4.29	**200yr**	2.80	3.76	5.04	6.36	7.88	9.64	11.10	**200yr**	8.54	10.68	12.16	13.92	15.43	**200yr**
500yr	0.93	1.53	2.00	2.90	4.07	5.42	**500yr**	3.52	4.71	6.39	8.07	10.00	12.23	14.17	**500yr**	10.82	13.63	15.47	17.53	19.35	**500yr**

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.35	0.42	0.57	0.70	0.80	**1yr**	0.61	0.79	1.06	1.33	1.68	2.29	2.56	**1yr**	2.03	2.46	2.72	3.02	3.78	**1yr**
2yr	0.32	0.49	0.60	0.81	1.00	1.20	**2yr**	0.87	1.18	1.37	1.79	2.30	2.90	3.21	**2yr**	2.57	3.09	3.58	4.29	4.89	**2yr**
5yr	0.36	0.56	0.69	0.95	1.20	1.42	**5yr**	1.04	1.39	1.63	2.12	2.70	3.51	3.91	**5yr**	3.11	3.76	4.30	5.17	5.86	**5yr**
10yr	0.40	0.61	0.75	1.05	1.36	1.61	**10yr**	1.18	1.57	1.82	2.39	3.05	4.06	4.53	**10yr**	3.59	4.36	4.95	5.92	6.70	**10yr**
25yr	0.45	0.69	0.85	1.22	1.60	1.88	**25yr**	1.38	1.84	2.14	2.82	3.55	4.91	5.53	**25yr**	4.35	5.32	5.95	7.10	8.00	**25yr**
50yr	0.49	0.75	0.93	1.34	1.80	2.13	**50yr**	1.55	2.09	2.42	3.20	4.00	5.69	6.44	**50yr**	5.03	6.20	6.85	8.15	9.14	**50yr**
100yr	0.54	0.81	1.02	1.47	2.01	2.41	**100yr**	1.74	2.36	2.73	3.49	4.50	6.52	7.54	**100yr**	5.77	7.25	7.90	9.37	10.42	**100yr**
200yr	0.59	0.89	1.12	1.63	2.27	2.73	**200yr**	1.96	2.67	3.07	3.95	5.10	7.55	8.82	**200yr**	6.68	8.48	9.11	10.77	11.91	**200yr**
500yr	0.67	1.00	1.28	1.86	2.65	3.23	**500yr**	2.28	3.16	3.61	4.65	6.04	9.18	10.92	**500yr**	8.13	10.50	10.99	12.94	14.19	**500yr**

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.31	0.48	0.58	0.78	0.96	1.13	**1yr**	0.83	1.10	1.28	1.66	2.10	2.64	2.88	**1yr**	2.33	2.77	3.42	4.21	4.78	**1yr**
2yr	0.35	0.54	0.67	0.91	1.12	1.31	**2yr**	0.97	1.29	1.49	1.93	2.48	3.06	3.40	**2yr**	2.71	3.27	3.79	4.51	5.15	**2yr**
5yr	0.44	0.67	0.83	1.15	1.46	1.68	**5yr**	1.26	1.64	1.90	2.44	3.06	4.02	4.53	**5yr**	3.56	4.36	5.01	5.93	6.66	**5yr**
10yr	0.53	0.81	1.00	1.40	1.81	2.05	**10yr**	1.56	2.00	2.32	2.92	3.64	4.97	5.63	**10yr**	4.40	5.41	6.20	7.28	8.12	**10yr**
25yr	0.68	1.03	1.28	1.83	2.41	2.66	**25yr**	2.08	2.60	3.00	3.70	4.54	6.58	7.51	**25yr**	5.83	7.22	8.25	9.56	10.59	**25yr**
50yr	0.82	1.25	1.55	2.23	3.00	3.24	**50yr**	2.59	3.17	3.65	4.43	5.37	8.15	9.34	**50yr**	7.21	8.98	10.22	11.76	12.95	**50yr**
100yr	1.00	1.51	1.89	2.73	3.75	3.96	**100yr**	3.23	3.88	4.45	5.50	6.37	10.17	11.60	**100yr**	9.00	11.15	12.68	14.48	15.86	**100yr**
200yr	1.21	1.83	2.32	3.35	4.68	4.84	**200yr**	4.03	4.73	5.41	6.61	7.55	12.60	14.40	**200yr**	11.15	13.85	15.73	17.83	19.43	**200yr**
500yr	1.58	2.36	3.03	4.41	6.27	6.28	**500yr**	5.41	6.14	7.03	8.46	9.45	16.73	19.13	**500yr**	14.81	18.40	20.93	23.49	25.41	**500yr**

Powered by ACIS Northeast Regional Climate Center

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Hillsborough County, New Hampshire, Eastern Part

May 25, 2021

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:5,010 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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: Hillsborough County, New Hampshire, Eastern Part
Survey Area Data: Version 22, May 29, 2020

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

Date(s) aerial images were photographed: May 22, 2015—Jun 14, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HsC	Hinckley loamy sand, 8 to 15 percent slopes	20.2	28.8%
Om	Occum fine sandy loam, high bottom	5.1	7.3%
PiA	Pipestone loamy sand, 0 to 3 percent slopes	0.5	0.7%
W	Water (less than 40 acres)	0.2	0.3%
WdB	Windsor loamy sand, 3 to 8 percent slopes	35.2	50.2%
WdC	Windsor loamy sand, 8 to 15 percent slopes	5.1	7.3%
WdD	Windsor loamy sand, 15 to 35 percent slopes	3.8	5.4%
Totals for Area of Interest		**70.1**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor

components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hillsborough County, New Hampshire, Eastern Part

HsC—Hinckley loamy sand, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2svm9
Elevation: 0 to 1,480 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Hinckley and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hinckley

Setting

Landform: Kames, kame terraces, moraines, outwash deltas, eskers, outwash terraces, outwash plains
Landform position (two-dimensional): Shoulder, toeslope, footslope, backslope
Landform position (three-dimensional): Nose slope, side slope, crest, head slope, riser
Down-slope shape: Linear, concave, convex
Across-slope shape: Convex, linear, concave
Parent material: Sandy and gravelly glaciofluvial deposits derived from gneiss and/or granite and/or schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 8 inches: loamy sand
Bw1 - 8 to 11 inches: gravelly loamy sand
Bw2 - 11 to 16 inches: gravelly loamy sand
BC - 16 to 19 inches: very gravelly loamy sand
C - 19 to 65 inches: very gravelly sand

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 99.90 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A

Ecological site: F144AY022MA - Dry Outwash
Hydric soil rating: No

Minor Components

Windsor
Percent of map unit: 5 percent
Landform: Kames, kame terraces, moraines, outwash deltas, eskers, outwash terraces, outwash plains
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Nose slope, side slope, crest, head slope, riser
Down-slope shape: Linear, concave, convex
Across-slope shape: Convex, linear, concave
Hydric soil rating: No

Sudbury
Percent of map unit: 5 percent
Landform: Kame terraces, moraines, outwash deltas, outwash terraces, outwash plains
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Hydric soil rating: No

Merrimac
Percent of map unit: 5 percent
Landform: Kames, moraines, eskers, outwash terraces, outwash plains
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, crest, head slope, nose slope, riser
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Om—Occum fine sandy loam, high bottom

Map Unit Setting
National map unit symbol: 9fd7
Elevation: 100 to 520 feet
Mean annual precipitation: 44 to 47 inches
Mean annual air temperature: 48 degrees F
Frost-free period: 155 to 160 days
Farmland classification: Prime farmland if protected from flooding or not frequently flooded during the growing season

Map Unit Composition
Occum and similar soils: 85 percent
Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Occum

Setting

Parent material: Sandy and/or coarse-loamy alluvium derived from granite, gneiss or schist

Typical profile

H1 - 0 to 9 inches: fine sandy loam
H2 - 9 to 25 inches: fine sandy loam
H3 - 25 to 60 inches: loamy fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Available water capacity: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: B
Ecological site: F144AY010NH - Sandy High Floodplain
Hydric soil rating: No

Minor Components

Pootatuck

Percent of map unit: 15 percent
Hydric soil rating: No

PiA—Pipestone loamy sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 9fdl
Elevation: 0 to 1,000 feet
Mean annual precipitation: 27 to 55 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 120 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Pipestone and similar soils: 90 percent
Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pipestone

Setting

Landform: Outwash terraces
Parent material: Sandy outwash derived mainly from granite, gneiss and schist

Typical profile

H1 - 0 to 9 inches: loamy sand
H2 - 9 to 22 inches: sand
H3 - 22 to 61 inches: coarse sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: A/D
Ecological site: F144AY027MA - Moist Sandy Outwash
Hydric soil rating: Yes

Minor Components

Saugatuck

Percent of map unit: 5 percent
Landform: Outwash terraces
Hydric soil rating: Yes

Deerfield

Percent of map unit: 5 percent
Hydric soil rating: No

W—Water (less than 40 acres)

Map Unit Composition

Water < 40: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

WdB—Windsor loamy sand, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2svkf
Elevation: 0 to 1,210 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Farmland of local importance

Map Unit Composition

Windsor, loamy sand, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Windsor, Loamy Sand

Setting

Landform: Deltas, outwash terraces, dunes, outwash plains
Landform position (three-dimensional): Riser, tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Loose sandy glaciofluvial deposits derived from granite and/or loose sandy glaciofluvial deposits derived from schist and/or loose sandy glaciofluvial deposits derived from gneiss

Typical profile

O - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: loamy sand
Bw - 3 to 25 inches: loamy sand
C - 25 to 65 inches: sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 99.90 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Ecological site: F144AY022MA - Dry Outwash
Hydric soil rating: No

Minor Components

Hinckley, loamy sand

Percent of map unit: 10 percent
Landform: Kames, deltas, eskers, outwash plains
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Nose slope, side slope, crest, head slope, rise
Down-slope shape: Convex
Across-slope shape: Convex, linear
Hydric soil rating: No

Deerfield, loamy sand

Percent of map unit: 5 percent
Landform: Terraces, deltas, outwash plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

WdC—Windsor loamy sand, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2svkq
Elevation: 0 to 1,260 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Windsor and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Windsor

Setting

Landform: — error in exists on —
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Side slope, riser
Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Loose sandy glaciofluvial deposits derived from granite and/or loose sandy glaciofluvial deposits derived from schist and/or loose sandy glaciofluvial deposits derived from gneiss

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

Ap - 1 to 11 inches: loamy sand
Bw - 11 to 31 inches: loamy sand
C - 31 to 65 inches: sand

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 99.90 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Ecological site: F144AY022MA - Dry Outwash
Hydric soil rating: No

Minor Components

Hinckley

Percent of map unit: 10 percent
Landform: Kames, deltas, eskers, outwash plains
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Crest, head slope, nose slope, side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex, linear
Hydric soil rating: No

Deerfield

Percent of map unit: 5 percent
Landform: Terraces, deltas, outwash plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

WdD—Windsor loamy sand, 15 to 35 percent slopes

Map Unit Setting

National map unit symbol: 2svl4
Elevation: 0 to 680 feet
Mean annual precipitation: 36 to 71 inches

Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Windsor and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Windsor

Setting

Landform: Deltas, outwash terraces, dunes, outwash plains
Landform position (three-dimensional): Riser, tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Loose sandy glaciofluvial deposits derived from granite and/or loose sandy glaciofluvial deposits derived from schist and/or loose sandy glaciofluvial deposits derived from gneiss

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: loamy sand
Bw - 3 to 25 inches: loamy sand
C - 25 to 65 inches: sand

Properties and qualities

Slope: 15 to 35 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 99.90 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: F144AY022MA - Dry Outwash
Hydric soil rating: No

Minor Components

Hinckley

Percent of map unit: 5 percent
Landform: Kames, deltas, eskers, outwash plains
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Nose slope, side slope, crest, head slope, rise
Down-slope shape: Convex
Across-slope shape: Convex, linear
Hydric soil rating: No

Merrimac

Percent of map unit: 5 percent
Landform: Kames, moraines, eskers, outwash terraces, stream terraces, outwash plains
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

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1 inch = 500 ft.

FRIARS DRIVE

TAX MAP 209 LOT 1

HUDSON, NH 03051

TITLE:	AERIAL LOCATION MAP
DATE:	5/25/2021
SCALE:	1"=500'
SHEET:	1 OF 1

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NHDES Alteration of Terrain

IV. STORMWATER ANALYSIS

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RIP RAP OUTLET PROTECTION CALCULATIONS

161 LOWELL ROAD HUDSON, NH
TDG PROJECT #475

The purpose of this spreadsheet is to calculate the dimensions of rip rap required to help prevent soil loss for the 25-year storm event

Input values required are:

Q = peak flow, CFS
Do = diameter of outlet or width of channel, ft
Tw = tailwater at end of apron, ft

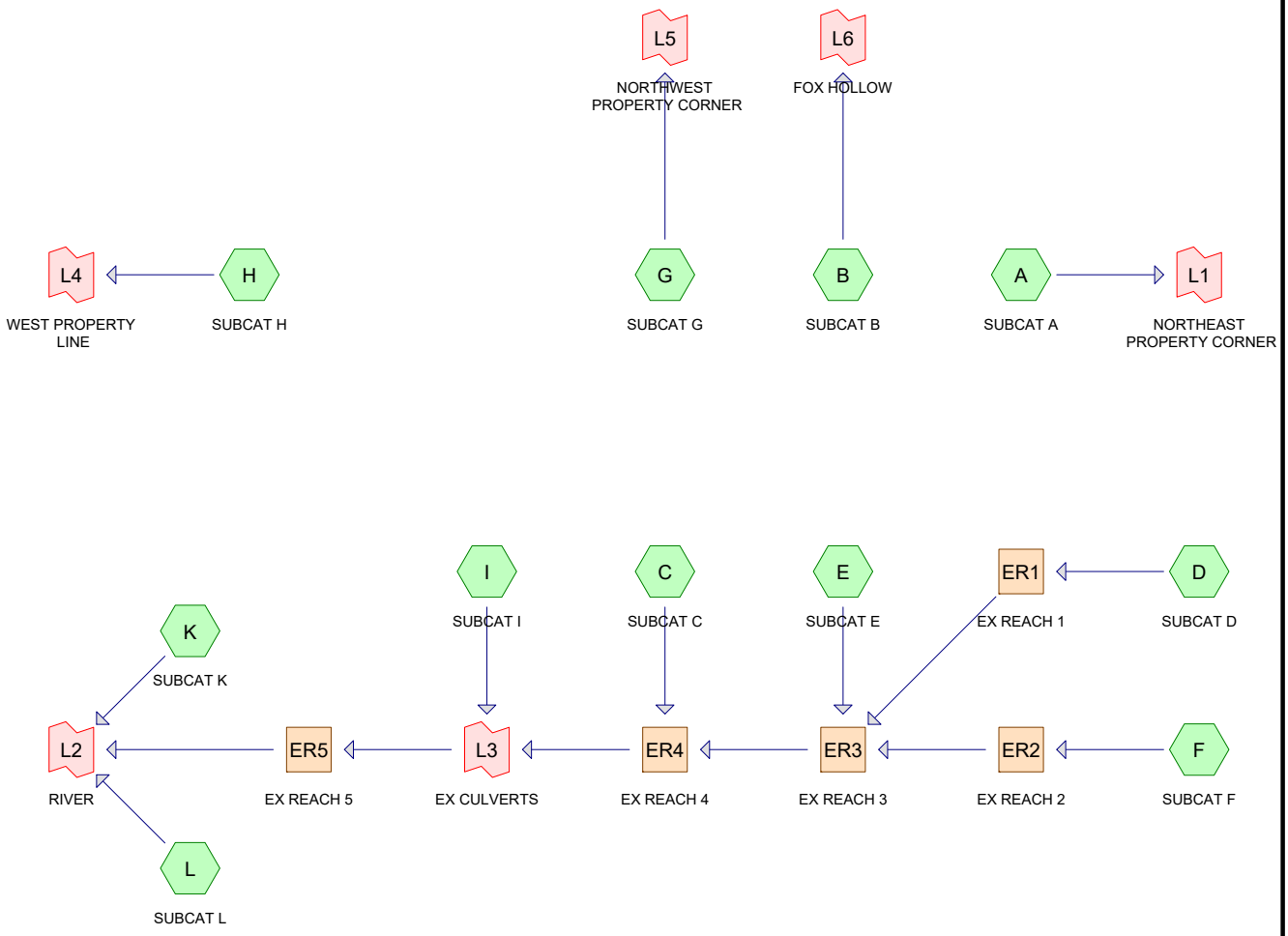
Depending on the tailwater conditions, one of the following formulas is used:

	Tw < 1/2Do	**OR**	**Tw ≥ 1/2Do**
Length of Apron (La):	$La = 1.8Q/(Do)^{1.5}+7Do$		$La = 3.0Q/(Do)^{1.5}+7Do$
Width of Apron:	W1=3*Do W2 = 3Do + La		W1=3*Do W2=3Do+0.4*La

If defined channel, use channel width for W1 and W2

$d50 = (0.02*Q^{1.3})/(Tw*Do)$

		Input Values			Calculated Output						Riprap Gradation Envelope				Riprap Depth
Structure & Description		Q (cfs)	Do (ft)	Tw (ft)	La	W1	W2	d50, ft	d50, in	Use d50 in.	d100 in.	d85 in.	d50 in.	d15 in.	in.
FES-E1	Culvert from CB-E3	9.77	2.00	1.56	24	6	16	0.1	1.49	6	9	8	6	3	15
FES-E2	Culvert from CB-E11	21.16	2.50	2.50	34	8	21	0.2	2.03	6	9	8	6	3	15
FES-E3	Culvert from CB-E10	32.14	3.50	3.50	39	11	26	0.1	1.78	6	9	8	6	3	15
FES-D1	Culvert from DMH-D4	22.91	2.50	2.44	35	8	21	0.2	2.31	6	9	8	6	3	15
FES-D2	Culvert from CB-D11	14.26	2.00	1.87	29	6	18	0.2	2.03	6	9	8	6	3	15
FES-D3	Culvert from OCS-D1	0.00	2.00	0.00	14	6	20	0.0	0.00	6	9	8	6	3	15
FES-C1	Culvert from DMH-C10	31.26	3.00	2.55	39	9	25	0.2	2.75	6	9	8	6	3	15
FES-C2	Culvert from DMH-C11	39.64	3.50	2.77	43	11	28	0.2	2.96	6	9	8	6	3	15
FES-C3	Culvert from OCS-C1	0.00	2.00	0.00	14	6	20	0.0	0.00	6	9	8	6	3	15



Subcat Reach Pond Link

Routing Diagram for 475-PRE
Prepared by The Dubay Group, Inc., Printed 10/5/2021

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
210,573	39	>75% Grass cover, Good, HSG A (A, D, F, H, K, L)
30,443	61	>75% Grass cover, Good, HSG B (K)
59,650	30	Brush, Good, HSG A (C, E, I)
75,110	48	Brush, Good, HSG B (L)
7,709	98	Ex. Building (K)
12,451	98	Ex. Pavement (F, K)
71,325	98	Ex. Wetland (C, E, F, I, K)
3,093,798	30	Woods, Good, HSG A (A, B, C, D, E, F, G, H, I, K, L)
118,156	55	Woods, Good, HSG B (K, L)
3,679,215	**34**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
3,364,021	HSG A	A, B, C, D, E, F, G, H, I, K, L
223,709	HSG B	K, L
0	HSG C	
0	HSG D	
91,485	Other	C, E, F, I, K
3,679,215		**TOTAL AREA**

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A: SUBCAT A Runoff Area=64,784 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment C: SUBCAT C Runoff Area=889,364 sf 0.21% Impervious Runoff Depth=0.00"
Tc=50.2 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment D: SUBCAT D Runoff Area=202,103 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=530' Tc=18.3 min CN=32 Runoff=0.00 cfs 0 cf

Subcatchment E: SUBCAT E Runoff Area=301,475 sf 1.33% Impervious Runoff Depth=0.00"
Flow Length=630' Tc=14.0 min CN=31 Runoff=0.00 cfs 0 cf

Subcatchment F: SUBCAT F Runoff Area=272,134 sf 9.95% Impervious Runoff Depth=0.00"
Flow Length=825' Tc=11.7 min CN=40 Runoff=0.00 cfs 0 cf

Subcatchment G: SUBCAT G Runoff Area=181,015 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment H: SUBCAT H Runoff Area=253,913 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment I: SUBCAT I Runoff Area=858,258 sf 3.91% Impervious Runoff Depth=0.00"
Flow Length=1,590' Tc=31.7 min CN=33 Runoff=0.00 cfs 0 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.02"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=0.02 cfs 546 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=39 Runoff=0.00 cfs 0 cf

Reach ER1: EX REACH 1 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=755.0' S=0.0252 '/' Capacity=66.94 cfs Outflow=0.00 cfs 0 cf

Reach ER2: EX REACH 2 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=260.0' S=0.0154 '/' Capacity=159.63 cfs Outflow=0.00 cfs 0 cf

Reach ER3: EX REACH 3 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=256.0' S=0.0078 '/' Capacity=113.75 cfs Outflow=0.00 cfs 0 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.00 cfs 0 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.00 cfs 0 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L2: RIVER Inflow=0.02 cfs 546 cf
Primary=0.02 cfs 546 cf

Link L3: EX CULVERTS Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L4: WEST PROPERTY LINE Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L6: FOX HOLLOW Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Total Runoff Area = 3,679,215 sf Runoff Volume = 546 cf Average Runoff Depth = 0.00"
97.51% Pervious = 3,587,730 sf 2.49% Impervious = 91,485 sf

Summary for Subcatchment A: SUBCAT A

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	835	39	>75% Grass cover, Good, HSG A
	63,949	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	64,784	30	Weighted Average
	64,784		100.00% Pervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C: SUBCAT C

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	10,208	30	Brush, Good, HSG A
	877,266	30	Woods, Good, HSG A
*	1,890	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	889,364	30	Weighted Average
	887,474		99.79% Pervious Area
	1,890		0.21% Impervious Area

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

Summary for Subcatchment D: SUBCAT D

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	40,833	39	>75% Grass cover, Good, HSG A
	161,270	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	202,103	32	Weighted Average
	202,103		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
10.0	380	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
18.3	530	Total			

Summary for Subcatchment E: SUBCAT E

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	13,501	30	Brush, Good, HSG A
	283,954	30	Woods, Good, HSG A
*	4,020	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	301,475	31	Weighted Average
	297,455		98.67% Pervious Area
	4,020		1.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
6.4	330	0.0300	0.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	150	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
14.0	630	Total			

Summary for Subcatchment F: SUBCAT F

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	102,210	39	>75% Grass cover, Good, HSG A
	142,851	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	11,679	98	Ex. Pavement
	272,134	40	Weighted Average
	245,061		90.05% Pervious Area
	27,073		9.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
4.5	410	0.0930	1.52		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.9	365	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
11.7	825	Total			

Summary for Subcatchment G: SUBCAT G

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	181,015	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	181,015	30	Weighted Average
	181,015		100.00% Pervious Area

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

Summary for Subcatchment H: SUBCAT H

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	5,832	39	>75% Grass cover, Good, HSG A
	248,081	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	253,913	30	Weighted Average
	253,913		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment I: SUBCAT I

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	35,941	30	Brush, Good, HSG A
	788,781	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	858,258	33	Weighted Average
	824,722		96.09% Pervious Area
	33,536		3.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
19.8	750	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	40	0.2000	2.24		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.9	750	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
31.7	1,590	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 0.02 cfs @ 17.20 hrs, Volume= 546 cf, Depth> 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	75,110	48	Brush, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	39	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Reach ER1: EX REACH 1

Inflow Area = 202,103 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 0.50' Flow Area= 15.0 sf, Capacity= 66.94 cfs

25.00' x 0.50' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 10.0 '/' Top Width= 35.00'
Length= 755.0' Slope= 0.0252 '/'
Inlet Invert= 161.00', Outlet Invert= 142.00'

‡

Summary for Reach ER2: EX REACH 2

Inflow Area = 272,134 sf, 9.95% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 159.63 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 260.0' Slope= 0.0154 '/'
Inlet Invert= 146.00', Outlet Invert= 142.00'

‡

Summary for Reach ER3: EX REACH 3

Inflow Area = 775,712 sf, 4.01% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 113.75 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 256.0' Slope= 0.0078 '/'
Inlet Invert= 142.00', Outlet Invert= 140.00'

‡

Summary for Reach ER4: EX REACH 4

Inflow Area = 1,665,076 sf, 1.98% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'

‡

Summary for Reach ER5: EX REACH 5

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 64,784 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,154,918 sf, 2.90% Impervious, Inflow Depth > 0.00" for 2-YR event
Inflow = 0.02 cfs @ 17.20 hrs, Volume= 546 cf
Primary = 0.02 cfs @ 17.20 hrs, Volume= 546 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 253,913 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 181,015 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A: SUBCAT A Runoff Area=64,784 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment C: SUBCAT C Runoff Area=889,364 sf 0.21% Impervious Runoff Depth=0.00"
Tc=50.2 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment D: SUBCAT D Runoff Area=202,103 sf 0.00% Impervious Runoff Depth>0.00"
Flow Length=530' Tc=18.3 min CN=32 Runoff=0.00 cfs 35 cf

Subcatchment E: SUBCAT E Runoff Area=301,475 sf 1.33% Impervious Runoff Depth>0.00"
Flow Length=630' Tc=14.0 min CN=31 Runoff=0.00 cfs 0 cf

Subcatchment F: SUBCAT F Runoff Area=272,134 sf 9.95% Impervious Runoff Depth>0.13"
Flow Length=825' Tc=11.7 min CN=40 Runoff=0.11 cfs 2,952 cf

Subcatchment G: SUBCAT G Runoff Area=181,015 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment H: SUBCAT H Runoff Area=253,913 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment I: SUBCAT I Runoff Area=858,258 sf 3.91% Impervious Runoff Depth>0.01"
Flow Length=1,590' Tc=31.7 min CN=33 Runoff=0.03 cfs 529 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.29"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=0.71 cfs 7,605 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.11"
Tc=6.0 min CN=39 Runoff=0.10 cfs 2,756 cf

Reach ER1: EX REACH 1 Avg. Flow Depth=0.00' Max Vel=0.23 fps Inflow=0.00 cfs 35 cf
n=0.030 L=755.0' S=0.0252 '/' Capacity=66.94 cfs Outflow=0.00 cfs 24 cf

Reach ER2: EX REACH 2 Avg. Flow Depth=0.01' Max Vel=0.35 fps Inflow=0.11 cfs 2,952 cf
n=0.030 L=260.0' S=0.0154 '/' Capacity=159.63 cfs Outflow=0.11 cfs 2,913 cf

Reach ER3: EX REACH 3 Avg. Flow Depth=0.02' Max Vel=0.29 fps Inflow=0.11 cfs 2,938 cf
n=0.030 L=256.0' S=0.0078 '/' Capacity=113.75 cfs Outflow=0.11 cfs 2,878 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.01' Max Vel=0.36 fps Inflow=0.11 cfs 2,878 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.10 cfs 2,671 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.01' Max Vel=0.36 fps Inflow=0.10 cfs 3,200 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.09 cfs 2,940 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L2: RIVER Inflow=0.71 cfs 13,301 cf
Primary=0.71 cfs 13,301 cf

Link L3: EX CULVERTS Inflow=0.10 cfs 3,200 cf
Primary=0.10 cfs 3,200 cf

Link L4: WEST PROPERTY LINE Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L6: FOX HOLLOW Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Total Runoff Area = 3,679,215 sf Runoff Volume = 13,877 cf Average Runoff Depth = 0.05"
97.51% Pervious = 3,587,730 sf 2.49% Impervious = 91,485 sf

Summary for Subcatchment A: SUBCAT A

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	835	39	>75% Grass cover, Good, HSG A
	63,949	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	64,784	30	Weighted Average
	64,784		100.00% Pervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C: SUBCAT C

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	10,208	30	Brush, Good, HSG A
	877,266	30	Woods, Good, HSG A
*	1,890	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	889,364	30	Weighted Average
	887,474		99.79% Pervious Area
	1,890		0.21% Impervious Area

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

Summary for Subcatchment D: SUBCAT D

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 35 cf, Depth> 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	40,833	39	>75% Grass cover, Good, HSG A
	161,270	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	202,103	32	Weighted Average
	202,103		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
10.0	380	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
18.3	530	Total			

Summary for Subcatchment E: SUBCAT E

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0 cf, Depth> 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	13,501	30	Brush, Good, HSG A
	283,954	30	Woods, Good, HSG A
*	4,020	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	301,475	31	Weighted Average
	297,455		98.67% Pervious Area
	4,020		1.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
6.4	330	0.0300	0.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	150	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
14.0	630	Total			

Summary for Subcatchment F: SUBCAT F

Runoff = 0.11 cfs @ 13.89 hrs, Volume= 2,952 cf, Depth> 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	102,210	39	>75% Grass cover, Good, HSG A
	142,851	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	11,679	98	Ex. Pavement
	272,134	40	Weighted Average
	245,061		90.05% Pervious Area
	27,073		9.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
4.5	410	0.0930	1.52		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.9	365	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
11.7	825	Total			

Summary for Subcatchment G: SUBCAT G

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	181,015	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	181,015	30	Weighted Average
	181,015		100.00% Pervious Area

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

Summary for Subcatchment H: SUBCAT H

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	5,832	39	>75% Grass cover, Good, HSG A
	248,081	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	253,913	30	Weighted Average
	253,913		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment I: SUBCAT I

Runoff = 0.03 cfs @ 23.36 hrs, Volume= 529 cf, Depth> 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	35,941	30	Brush, Good, HSG A
	788,781	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	858,258	33	Weighted Average
	824,722		96.09% Pervious Area
	33,536		3.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
19.8	750	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	40	0.2000	2.24		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.9	750	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
31.7	1,590	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 0.71 cfs @ 12.45 hrs, Volume= 7,605 cf, Depth> 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 0.10 cfs @ 14.75 hrs, Volume= 2,756 cf, Depth> 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	75,110	48	Brush, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	39	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Reach ER1: EX REACH 1

Inflow Area = 202,103 sf, 0.00% Impervious, Inflow Depth > 0.00" for 10-YR event
Inflow = 0.00 cfs @ 24.00 hrs, Volume= 35 cf
Outflow = 0.00 cfs @ 24.00 hrs, Volume= 24 cf, Atten= 12%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.23 fps, Min. Travel Time= 54.8 min
Avg. Velocity = 0.23 fps, Avg. Travel Time= 54.8 min

Peak Storage= 10 cf @ 24.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 0.50' Flow Area= 15.0 sf, Capacity= 66.94 cfs

25.00' x 0.50' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 10.0 '/' Top Width= 35.00'
Length= 755.0' Slope= 0.0252 '/'
Inlet Invert= 161.00', Outlet Invert= 142.00'

‡

Summary for Reach ER2: EX REACH 2

Inflow Area = 272,134 sf, 9.95% Impervious, Inflow Depth > 0.13" for 10-YR event
Inflow = 0.11 cfs @ 13.89 hrs, Volume= 2,952 cf
Outflow = 0.11 cfs @ 14.01 hrs, Volume= 2,913 cf, Atten= 0%, Lag= 7.2 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.35 fps, Min. Travel Time= 12.3 min
Avg. Velocity = 0.30 fps, Avg. Travel Time= 14.3 min

Peak Storage= 81 cf @ 14.01 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 159.63 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 260.0' Slope= 0.0154 '/'
Inlet Invert= 146.00', Outlet Invert= 142.00'

‡

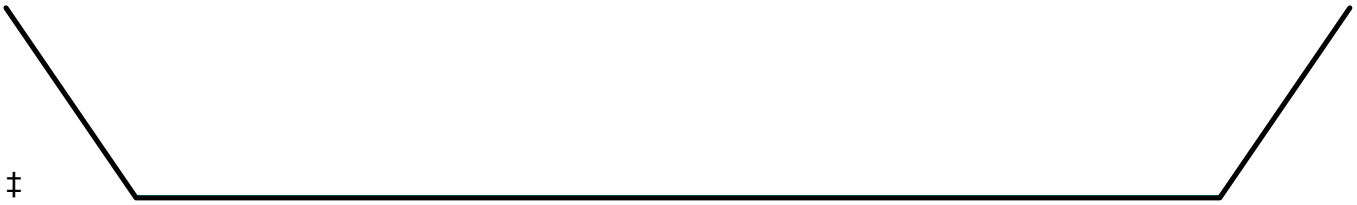
Summary for Reach ER3: EX REACH 3

Inflow Area = 775,712 sf, 4.01% Impervious, Inflow Depth > 0.05" for 10-YR event
Inflow = 0.11 cfs @ 14.01 hrs, Volume= 2,938 cf
Outflow = 0.11 cfs @ 14.81 hrs, Volume= 2,878 cf, Atten= 0%, Lag= 48.3 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.29 fps, Min. Travel Time= 14.9 min
Avg. Velocity = 0.24 fps, Avg. Travel Time= 18.1 min

Peak Storage= 98 cf @ 14.81 hrs
Average Depth at Peak Storage= 0.02'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 113.75 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 256.0' Slope= 0.0078 '/'
Inlet Invert= 142.00', Outlet Invert= 140.00'



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Summary for Reach ER4: EX REACH 4

Inflow Area = 1,665,076 sf, 1.98% Impervious, Inflow Depth > 0.02" for 10-YR event
Inflow = 0.11 cfs @ 14.81 hrs, Volume= 2,878 cf
Outflow = 0.10 cfs @ 15.70 hrs, Volume= 2,671 cf, Atten= 7%, Lag= 53.4 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 59.9 min
Avg. Velocity = 0.32 fps, Avg. Travel Time= 66.9 min

Peak Storage= 368 cf @ 15.70 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'

‡

Summary for Reach ER5: EX REACH 5

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth > 0.02" for 10-YR event
Inflow = 0.10 cfs @ 15.70 hrs, Volume= 3,200 cf
Outflow = 0.09 cfs @ 16.47 hrs, Volume= 2,940 cf, Atten= 7%, Lag= 46.2 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 49.9 min
Avg. Velocity = 0.35 fps, Avg. Travel Time= 52.3 min

Peak Storage= 284 cf @ 16.47 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 64,784 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,154,918 sf, 2.90% Impervious, Inflow Depth > 0.05" for 10-YR event
Inflow = 0.71 cfs @ 12.45 hrs, Volume= 13,301 cf
Primary = 0.71 cfs @ 12.45 hrs, Volume= 13,301 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth > 0.02" for 10-YR event
Inflow = 0.10 cfs @ 15.70 hrs, Volume= 3,200 cf
Primary = 0.10 cfs @ 15.70 hrs, Volume= 3,200 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 253,913 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 181,015 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A: SUBCAT A Runoff Area=64,784 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 213 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.00 cfs 81 cf

Subcatchment C: SUBCAT C Runoff Area=889,364 sf 0.21% Impervious Runoff Depth>0.04"
Tc=50.2 min CN=30 Runoff=0.09 cfs 2,727 cf

Subcatchment D: SUBCAT D Runoff Area=202,103 sf 0.00% Impervious Runoff Depth>0.09"
Flow Length=530' Tc=18.3 min CN=32 Runoff=0.05 cfs 1,432 cf

Subcatchment E: SUBCAT E Runoff Area=301,475 sf 1.33% Impervious Runoff Depth>0.06"
Flow Length=630' Tc=14.0 min CN=31 Runoff=0.05 cfs 1,515 cf

Subcatchment F: SUBCAT F Runoff Area=272,134 sf 9.95% Impervious Runoff Depth>0.40"
Flow Length=825' Tc=11.7 min CN=40 Runoff=0.89 cfs 8,975 cf

Subcatchment G: SUBCAT G Runoff Area=181,015 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.02 cfs 596 cf

Subcatchment H: SUBCAT H Runoff Area=253,913 sf 0.00% Impervious Runoff Depth>0.04"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.03 cfs 829 cf

Subcatchment I: SUBCAT I Runoff Area=858,258 sf 3.91% Impervious Runoff Depth>0.11"
Flow Length=1,590' Tc=31.7 min CN=33 Runoff=0.30 cfs 8,023 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.66"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=2.58 cfs 17,610 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.35"
Tc=6.0 min CN=39 Runoff=0.86 cfs 9,114 cf

Reach ER1: EX REACH 1 Avg. Flow Depth=0.01' Max Vel=0.30 fps Inflow=0.05 cfs 1,432 cf
n=0.030 L=755.0' S=0.0252 '/' Capacity=66.94 cfs Outflow=0.05 cfs 1,338 cf

Reach ER2: EX REACH 2 Avg. Flow Depth=0.04' Max Vel=0.77 fps Inflow=0.89 cfs 8,975 cf
n=0.030 L=260.0' S=0.0154 '/' Capacity=159.63 cfs Outflow=0.85 cfs 8,904 cf

Reach ER3: EX REACH 3 Avg. Flow Depth=0.05' Max Vel=0.60 fps Inflow=0.85 cfs 11,756 cf
n=0.030 L=256.0' S=0.0078 '/' Capacity=113.75 cfs Outflow=0.78 cfs 11,633 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.03' Max Vel=0.63 fps Inflow=0.78 cfs 14,361 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.44 cfs 13,726 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.03' Max Vel=0.79 fps Inflow=0.69 cfs 21,749 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.69 cfs 21,083 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.01 cfs 213 cf
Primary=0.01 cfs 213 cf

Link L2: RIVER Inflow=3.34 cfs 47,807 cf
Primary=3.34 cfs 47,807 cf

Link L3: EX CULVERTS Inflow=0.69 cfs 21,749 cf
Primary=0.69 cfs 21,749 cf

Link L4: WEST PROPERTY LINE Inflow=0.03 cfs 829 cf
Primary=0.03 cfs 829 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.02 cfs 596 cf
Primary=0.02 cfs 596 cf

Link L6: FOX HOLLOW Inflow=0.00 cfs 81 cf
Primary=0.00 cfs 81 cf

Total Runoff Area = 3,679,215 sf Runoff Volume = 51,115 cf Average Runoff Depth = 0.17"
97.51% Pervious = 3,587,730 sf 2.49% Impervious = 91,485 sf

Summary for Subcatchment A: SUBCAT A

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 213 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	835	39	>75% Grass cover, Good, HSG A
	63,949	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	64,784	30	Weighted Average
	64,784		100.00% Pervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 17.13 hrs, Volume= 81 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C: SUBCAT C

Runoff = 0.09 cfs @ 17.80 hrs, Volume= 2,727 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	10,208	30	Brush, Good, HSG A
	877,266	30	Woods, Good, HSG A
*	1,890	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	889,364	30	Weighted Average
	887,474		99.79% Pervious Area
	1,890		0.21% Impervious Area

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

Summary for Subcatchment D: SUBCAT D

Runoff = 0.05 cfs @ 15.43 hrs, Volume= 1,432 cf, Depth> 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	40,833	39	>75% Grass cover, Good, HSG A
	161,270	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	202,103	32	Weighted Average
	202,103		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
10.0	380	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
18.3	530	Total			

Summary for Subcatchment E: SUBCAT E

Runoff = 0.05 cfs @ 15.74 hrs, Volume= 1,515 cf, Depth> 0.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	13,501	30	Brush, Good, HSG A
	283,954	30	Woods, Good, HSG A
*	4,020	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	301,475	31	Weighted Average
	297,455		98.67% Pervious Area
	4,020		1.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.9	100	0.1400	1.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
6.4	330	0.0300	0.87		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	150	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
14.0	630	Total			

Summary for Subcatchment F: SUBCAT F

Runoff = 0.89 cfs @ 12.45 hrs, Volume= 8,975 cf, Depth> 0.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	102,210	39	>75% Grass cover, Good, HSG A
	142,851	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	11,679	98	Ex. Pavement
	272,134	40	Weighted Average
	245,061		90.05% Pervious Area
	27,073		9.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
4.5	410	0.0930	1.52		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.9	365	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
11.7	825	Total			

Summary for Subcatchment G: SUBCAT G

Runoff = 0.02 cfs @ 17.13 hrs, Volume= 596 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	181,015	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	181,015	30	Weighted Average
	181,015		100.00% Pervious Area

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

Summary for Subcatchment H: SUBCAT H

Runoff = 0.03 cfs @ 17.21 hrs, Volume= 829 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	5,832	39	>75% Grass cover, Good, HSG A
	248,081	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	253,913	30	Weighted Average
	253,913		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment I: SUBCAT I

Runoff = 0.30 cfs @ 15.30 hrs, Volume= 8,023 cf, Depth> 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	35,941	30	Brush, Good, HSG A
	788,781	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	858,258	33	Weighted Average
	824,722		96.09% Pervious Area
	33,536		3.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
19.8	750	0.0160	0.63		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	40	0.2000	2.24		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.9	750	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
31.7	1,590	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 2.58 cfs @ 12.26 hrs, Volume= 17,610 cf, Depth> 0.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 0.86 cfs @ 12.38 hrs, Volume= 9,114 cf, Depth> 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	75,110	48	Brush, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	39	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Reach ER1: EX REACH 1

Inflow Area = 202,103 sf, 0.00% Impervious, Inflow Depth > 0.09" for 25-YR event
Inflow = 0.05 cfs @ 15.43 hrs, Volume= 1,432 cf
Outflow = 0.05 cfs @ 15.96 hrs, Volume= 1,338 cf, Atten= 4%, Lag= 31.7 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.30 fps, Min. Travel Time= 42.5 min
Avg. Velocity = 0.26 fps, Avg. Travel Time= 48.8 min

Peak Storage= 126 cf @ 15.96 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 0.50' Flow Area= 15.0 sf, Capacity= 66.94 cfs

25.00' x 0.50' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 10.0 '/' Top Width= 35.00'
Length= 755.0' Slope= 0.0252 '/'
Inlet Invert= 161.00', Outlet Invert= 142.00'

‡

Summary for Reach ER2: EX REACH 2

Inflow Area = 272,134 sf, 9.95% Impervious, Inflow Depth > 0.40" for 25-YR event
Inflow = 0.89 cfs @ 12.45 hrs, Volume= 8,975 cf
Outflow = 0.85 cfs @ 12.51 hrs, Volume= 8,904 cf, Atten= 4%, Lag= 4.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.77 fps, Min. Travel Time= 5.6 min
Avg. Velocity = 0.43 fps, Avg. Travel Time= 10.2 min

Peak Storage= 288 cf @ 12.51 hrs
Average Depth at Peak Storage= 0.04'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 159.63 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 260.0' Slope= 0.0154 '/'
Inlet Invert= 146.00', Outlet Invert= 142.00'

‡

Summary for Reach ER3: EX REACH 3

Inflow Area = 775,712 sf, 4.01% Impervious, Inflow Depth > 0.18" for 25-YR event
Inflow = 0.85 cfs @ 12.51 hrs, Volume= 11,756 cf
Outflow = 0.78 cfs @ 12.61 hrs, Volume= 11,633 cf, Atten= 8%, Lag= 5.6 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.60 fps, Min. Travel Time= 7.1 min
Avg. Velocity = 0.39 fps, Avg. Travel Time= 10.9 min

Peak Storage= 331 cf @ 12.61 hrs
Average Depth at Peak Storage= 0.05'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 113.75 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 256.0' Slope= 0.0078 '/'
Inlet Invert= 142.00', Outlet Invert= 140.00'

‡

Summary for Reach ER4: EX REACH 4

Inflow Area = 1,665,076 sf, 1.98% Impervious, Inflow Depth > 0.10" for 25-YR event
Inflow = 0.78 cfs @ 12.61 hrs, Volume= 14,361 cf
Outflow = 0.44 cfs @ 13.16 hrs, Volume= 13,726 cf, Atten= 43%, Lag= 33.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.63 fps, Min. Travel Time= 34.1 min
Avg. Velocity = 0.55 fps, Avg. Travel Time= 38.9 min

Peak Storage= 907 cf @ 13.16 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'

‡

Summary for Reach ER5: EX REACH 5

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth > 0.10" for 25-YR event
Inflow = 0.69 cfs @ 15.68 hrs, Volume= 21,749 cf
Outflow = 0.69 cfs @ 15.88 hrs, Volume= 21,083 cf, Atten= 0%, Lag= 11.9 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.79 fps, Min. Travel Time= 22.8 min
Avg. Velocity = 0.69 fps, Avg. Travel Time= 26.2 min

Peak Storage= 939 cf @ 15.88 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 64,784 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.01 cfs @ 17.13 hrs, Volume= 213 cf
Primary = 0.01 cfs @ 17.13 hrs, Volume= 213 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,154,918 sf, 2.90% Impervious, Inflow Depth > 0.18" for 25-YR event
Inflow = 3.34 cfs @ 12.33 hrs, Volume= 47,807 cf
Primary = 3.34 cfs @ 12.33 hrs, Volume= 47,807 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,523,334 sf, 2.64% Impervious, Inflow Depth > 0.10" for 25-YR event
Inflow = 0.69 cfs @ 15.68 hrs, Volume= 21,749 cf
Primary = 0.69 cfs @ 15.68 hrs, Volume= 21,749 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 253,913 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.03 cfs @ 17.21 hrs, Volume= 829 cf
Primary = 0.03 cfs @ 17.21 hrs, Volume= 829 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 181,015 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.02 cfs @ 17.13 hrs, Volume= 596 cf
Primary = 0.02 cfs @ 17.13 hrs, Volume= 596 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.00 cfs @ 17.13 hrs, Volume= 81 cf
Primary = 0.00 cfs @ 17.13 hrs, Volume= 81 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A: SUBCAT A Runoff Area=64,784 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.03 cfs 919 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.01 cfs 349 cf

Subcatchment C: SUBCAT C Runoff Area=889,364 sf 0.21% Impervious Runoff Depth>0.16"
Tc=50.2 min CN=30 Runoff=0.46 cfs 12,130 cf

Subcatchment D: SUBCAT D Runoff Area=202,103 sf 0.00% Impervious Runoff Depth>0.26"
Flow Length=530' Tc=18.3 min CN=32 Runoff=0.18 cfs 4,381 cf

Subcatchment E: SUBCAT E Runoff Area=301,475 sf 1.33% Impervious Runoff Depth>0.21"
Flow Length=630' Tc=14.0 min CN=31 Runoff=0.20 cfs 5,355 cf

Subcatchment F: SUBCAT F Runoff Area=272,134 sf 9.95% Impervious Runoff Depth>0.75"
Flow Length=825' Tc=11.7 min CN=40 Runoff=2.33 cfs 16,934 cf

Subcatchment G: SUBCAT G Runoff Area=181,015 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.10 cfs 2,567 cf

Subcatchment H: SUBCAT H Runoff Area=253,913 sf 0.00% Impervious Runoff Depth>0.17"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.13 cfs 3,583 cf

Subcatchment I: SUBCAT I Runoff Area=858,258 sf 3.91% Impervious Runoff Depth>0.31"
Flow Length=1,590' Tc=31.7 min CN=33 Runoff=1.04 cfs 22,065 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>1.12"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=5.81 cfs 29,670 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.68"
Tc=6.0 min CN=39 Runoff=2.40 cfs 17,734 cf

Reach ER1: EX REACH 1 Avg. Flow Depth=0.01' Max Vel=0.47 fps Inflow=0.18 cfs 4,381 cf
n=0.030 L=755.0' S=0.0252 '/' Capacity=66.94 cfs Outflow=0.17 cfs 4,243 cf

Reach ER2: EX REACH 2 Avg. Flow Depth=0.08' Max Vel=1.13 fps Inflow=2.33 cfs 16,934 cf
n=0.030 L=260.0' S=0.0154 '/' Capacity=159.63 cfs Outflow=2.30 cfs 16,843 cf

Reach ER3: EX REACH 3 Avg. Flow Depth=0.10' Max Vel=0.92 fps Inflow=2.31 cfs 26,441 cf
n=0.030 L=256.0' S=0.0078 '/' Capacity=113.75 cfs Outflow=2.25 cfs 26,268 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.06' Max Vel=1.03 fps Inflow=2.25 cfs 38,398 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=1.56 cfs 37,436 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.07' Max Vel=1.29 fps Inflow=2.53 cfs 59,501 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=2.35 cfs 58,498 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.03 cfs 919 cf
Primary=0.03 cfs 919 cf

Link L2: RIVER Inflow=8.18 cfs 105,902 cf
Primary=8.18 cfs 105,902 cf

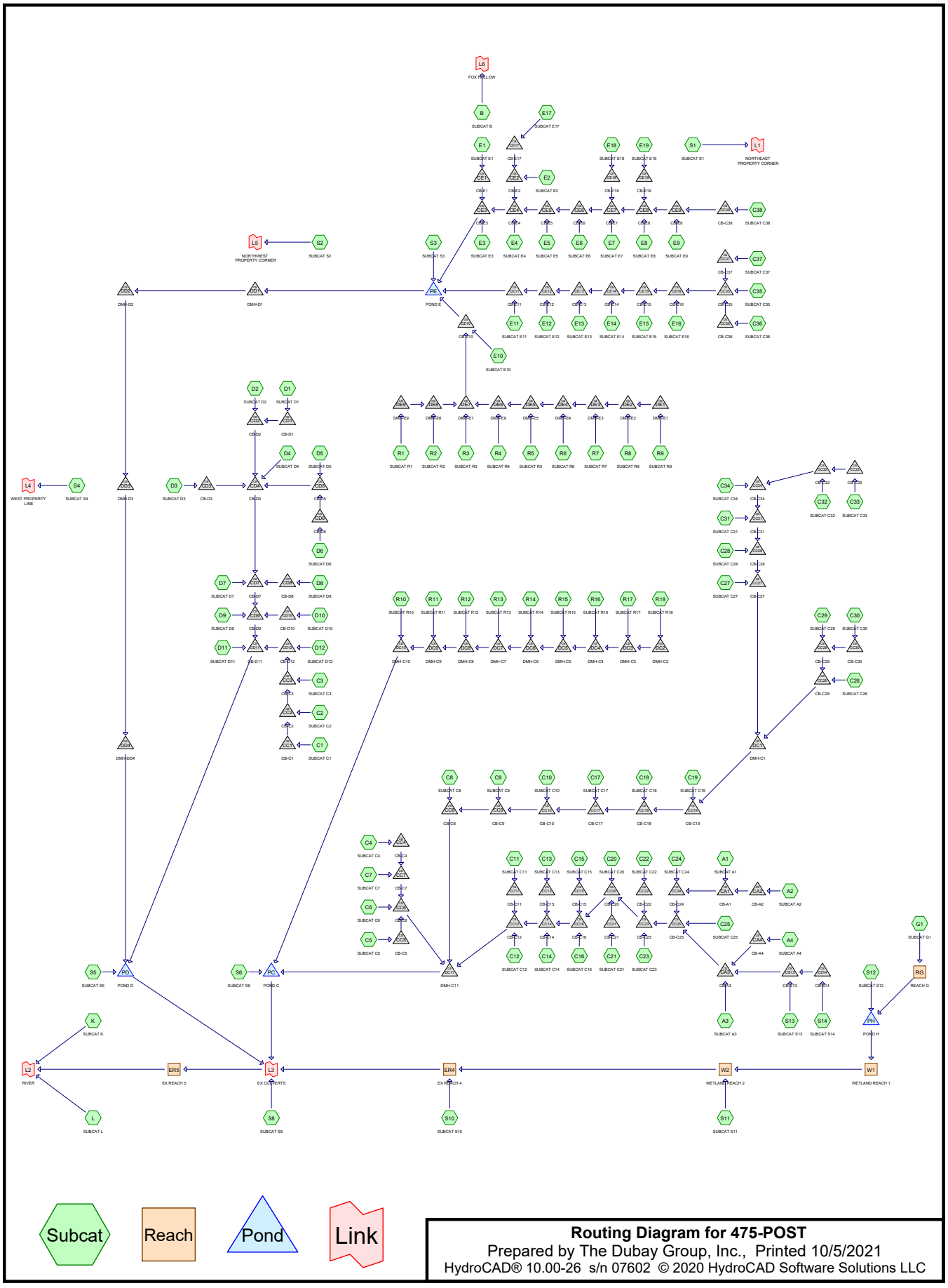
Link L3: EX CULVERTS Inflow=2.53 cfs 59,501 cf
Primary=2.53 cfs 59,501 cf

Link L4: WEST PROPERTY LINE Inflow=0.13 cfs 3,583 cf
Primary=0.13 cfs 3,583 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.10 cfs 2,567 cf
Primary=0.10 cfs 2,567 cf

Link L6: FOX HOLLOW Inflow=0.01 cfs 349 cf
Primary=0.01 cfs 349 cf

Total Runoff Area = 3,679,215 sf Runoff Volume = 115,685 cf Average Runoff Depth = 0.38"
97.51% Pervious = 3,587,730 sf 2.49% Impervious = 91,485 sf



Routing Diagram for 475-POST
Prepared by The Dubay Group, Inc., Printed 10/5/2021
HydroCAD® 10.00-26 s/n 07602 © 2020 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
213,282	39	>75% Grass cover, Good, HSG A (A1, A3, A4, C1, C10, C11, C12, C13, C15, C17, C18, C19, C2, C20, C21, C22, C23, C24, C26, C27, C28, C29, C3, C31, C32, C34, C35, C37, C38, C4, C5, C7, C8, C9, D10, D11, D12, D2, D3, D4, D5, D6, D7, D8, D9, E1, E10, E11, E12, E13, E14, E15, E16, E2, E3, E4, E5, E6, E7, E8, E9, K, L, S1, S12, S13, S14)
105,553	61	>75% Grass cover, Good, HSG B (K, L)
638,981	30	Brush, Good, HSG A (C33, C36, E17, E18, E19, G1, S10, S11, S2, S3, S4, S5, S6, S8)
7,709	98	Ex. Building (K)
13,340	98	Ex. Pavement (K, S11, S12, S13, S14)
71,325	98	Ex. Wetland (K, S10, S11, S8)
506,426	98	Proposed Building (R1, R10, R11, R12, R13, R14, R15, R16, R17, R18, R2, R3, R4, R5, R6, R7, R8, R9, S8)
655,142	98	Proposed Pavement (A1, A2, A3, A4, C1, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C2, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C3, C30, C31, C32, C33, C34, C35, C36, C37, C38, C4, C5, C6, C7, C8, C9, D1, D10, D11, D12, D2, D3, D4, D5, D6, D7, D8, D9, E1, E10, E11, E12, E13, E14, E15, E16, E2, E3, E4, E5, E6, E7, E8, E9, S12, S13, S14)
1,289,301	30	Woods, Good, HSG A (B, E17, E19, G1, K, L, S1, S10, S11, S2, S3, S4, S5, S6, S8)
118,156	55	Woods, Good, HSG B (K, L)
3,619,215	**56**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
2,141,564	HSG A	A1, A3, A4, B, C1, C10, C11, C12, C13, C15, C17, C18, C19, C2, C20, C21, C22, C23, C24, C26, C27, C28, C29, C3, C31, C32, C33, C34, C35, C36, C37, C38, C4, C5, C7, C8, C9, D10, D11, D12, D2, D3, D4, D5, D6, D7, D8, D9, E1, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E2, E3, E4, E5, E6, E7, E8, E9, G1, K, L, S1, S10, S11, S12, S13, S14, S2, S3, S4, S5, S6, S8
223,709	HSG B	K, L
0	HSG C	
0	HSG D	
1,253,942	Other	A1, A2, A3, A4, C1, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C2, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C3, C30, C31, C32, C33, C34, C35, C36, C37, C38, C4, C5, C6, C7, C8, C9, D1, D10, D11, D12, D2, D3, D4, D5, D6, D7, D8, D9, E1, E10, E11, E12, E13, E14, E15, E16, E2, E3, E4, E5, E6, E7, E8, E9, K, R1, R10, R11, R12, R13, R14, R15, R16, R17, R18, R2, R3, R4, R5, R6, R7, R8, R9, S10, S11, S12, S13, S14, S8
3,619,215		**TOTAL AREA**

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A1: SUBCAT A1 Runoff Area=4,895 sf 63.11% Impervious Runoff Depth>0.99"
Tc=6.0 min CN=76 Runoff=0.12 cfs 403 cf

Subcatchment A2: SUBCAT A2 Runoff Area=5,412 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.35 cfs 1,230 cf

Subcatchment A3: SUBCAT A3 Runoff Area=5,889 sf 94.62% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=0.35 cfs 1,182 cf

Subcatchment A4: SUBCAT A4 Runoff Area=6,616 sf 89.62% Impervious Runoff Depth>2.12"
Tc=6.0 min CN=92 Runoff=0.36 cfs 1,170 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment C1: SUBCAT C1 Runoff Area=6,254 sf 34.70% Impervious Runoff Depth>0.29"
Tc=6.0 min CN=59 Runoff=0.02 cfs 151 cf

Subcatchment C10: SUBCAT C10 Runoff Area=26,752 sf 95.25% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=1.61 cfs 5,370 cf

Subcatchment C11: SUBCAT C11 Runoff Area=6,044 sf 71.33% Impervious Runoff Depth>1.28"
Tc=6.0 min CN=81 Runoff=0.20 cfs 645 cf

Subcatchment C12: SUBCAT C12 Runoff Area=8,341 sf 76.62% Impervious Runoff Depth>1.48"
Tc=6.0 min CN=84 Runoff=0.33 cfs 1,030 cf

Subcatchment C13: SUBCAT C13 Runoff Area=3,872 sf 77.27% Impervious Runoff Depth>1.55"
Tc=6.0 min CN=85 Runoff=0.16 cfs 501 cf

Subcatchment C14: SUBCAT C14 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.19 cfs 680 cf

Subcatchment C15: SUBCAT C15 Runoff Area=3,872 sf 81.40% Impervious Runoff Depth>1.70"
Tc=6.0 min CN=87 Runoff=0.17 cfs 549 cf

Subcatchment C16: SUBCAT C16 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.19 cfs 680 cf

Subcatchment C17: SUBCAT C17 Runoff Area=25,506 sf 95.04% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=1.54 cfs 5,120 cf

Subcatchment C18: SUBCAT C18 Runoff Area=27,087 sf 99.38% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.74 cfs 6,155 cf

Subcatchment C19: SUBCAT C19 Runoff Area=41,584 sf 80.98% Impervious Runoff Depth>1.70"
Tc=6.0 min CN=87 Runoff=1.87 cfs 5,901 cf

Subcatchment C2: SUBCAT C2 Runoff Area=4,249 sf 80.40% Impervious Runoff Depth>1.63"
Tc=6.0 min CN=86 Runoff=0.18 cfs 576 cf

Subcatchment C20: SUBCAT C20 Runoff Area=3,692 sf 81.61% Impervious Runoff Depth>1.70"
Tc=6.0 min CN=87 Runoff=0.17 cfs 524 cf

Subcatchment C21: SUBCAT C21 Runoff Area=3,610 sf 79.03% Impervious Runoff Depth>1.63"
Tc=6.0 min CN=86 Runoff=0.16 cfs 489 cf

Subcatchment C22: SUBCAT C22 Runoff Area=3,940 sf 77.16% Impervious Runoff Depth>1.55"
Tc=6.0 min CN=85 Runoff=0.16 cfs 510 cf

Subcatchment C23: SUBCAT C23 Runoff Area=3,424 sf 90.30% Impervious Runoff Depth>2.12"
Tc=6.0 min CN=92 Runoff=0.19 cfs 605 cf

Subcatchment C24: SUBCAT C24 Runoff Area=11,181 sf 56.94% Impervious Runoff Depth>0.83"
Tc=6.0 min CN=73 Runoff=0.23 cfs 775 cf

Subcatchment C25: SUBCAT C25 Runoff Area=5,747 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.37 cfs 1,306 cf

Subcatchment C26: SUBCAT C26 Runoff Area=2,533 sf 92.22% Impervious Runoff Depth>2.21"
Tc=6.0 min CN=93 Runoff=0.14 cfs 467 cf

Subcatchment C27: SUBCAT C27 Runoff Area=8,243 sf 88.85% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.44 cfs 1,396 cf

Subcatchment C28: SUBCAT C28 Runoff Area=9,089 sf 85.50% Impervious Runoff Depth>1.86"
Tc=6.0 min CN=89 Runoff=0.44 cfs 1,410 cf

Subcatchment C29: SUBCAT C29 Runoff Area=4,785 sf 67.29% Impervious Runoff Depth>1.16"
Tc=6.0 min CN=79 Runoff=0.14 cfs 462 cf

Subcatchment C3: SUBCAT C3 Runoff Area=1,309 sf 87.47% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.07 cfs 222 cf

Subcatchment C30: SUBCAT C30 Runoff Area=3,220 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.21 cfs 732 cf

Subcatchment C31: SUBCAT C31 Runoff Area=9,362 sf 86.57% Impervious Runoff Depth>1.95"
Tc=6.0 min CN=90 Runoff=0.48 cfs 1,518 cf

Subcatchment C32: SUBCAT C32 Runoff Area=4,710 sf 67.69% Impervious Runoff Depth>1.16"
Tc=6.0 min CN=79 Runoff=0.14 cfs 455 cf

Subcatchment C33: SUBCAT C33 Runoff Area=6,131 sf 52.05% Impervious Runoff Depth>0.49"
Tc=6.0 min CN=65 Runoff=0.06 cfs 249 cf

Subcatchment C34: SUBCAT C34 Runoff Area=8,792 sf 87.89% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.46 cfs 1,489 cf

Subcatchment C35: SUBCAT C35 Runoff Area=3,541 sf 65.66% Impervious Runoff Depth>1.10"
Tc=6.0 min CN=78 Runoff=0.10 cfs 324 cf

Subcatchment C36: SUBCAT C36 Runoff Area=4,686 sf 33.91% Impervious Runoff Depth>0.14"
Tc=6.0 min CN=53 Runoff=0.00 cfs 55 cf

Subcatchment C37: SUBCAT C37 Runoff Area=10,601 sf 53.01% Impervious Runoff Depth>0.69"
Tc=6.0 min CN=70 Runoff=0.17 cfs 611 cf

Subcatchment C38: SUBCAT C38 Runoff Area=6,400 sf 79.30% Impervious Runoff Depth>1.63"
Tc=6.0 min CN=86 Runoff=0.28 cfs 868 cf

Subcatchment C4: SUBCAT C4 Runoff Area=5,937 sf 33.28% Impervious Runoff Depth>0.29"
Tc=6.0 min CN=59 Runoff=0.02 cfs 143 cf

Subcatchment C5: SUBCAT C5 Runoff Area=5,125 sf 32.45% Impervious Runoff Depth>0.26"
Tc=6.0 min CN=58 Runoff=0.01 cfs 111 cf

Subcatchment C6: SUBCAT C6 Runoff Area=2,104 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.14 cfs 478 cf

Subcatchment C7: SUBCAT C7 Runoff Area=2,469 sf 80.19% Impervious Runoff Depth>1.63"
Tc=6.0 min CN=86 Runoff=0.11 cfs 335 cf

Subcatchment C8: SUBCAT C8 Runoff Area=31,789 sf 87.55% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=1.68 cfs 5,384 cf

Subcatchment C9: SUBCAT C9 Runoff Area=26,752 sf 99.34% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.72 cfs 6,079 cf

Subcatchment D1: SUBCAT D1 Runoff Area=6,306 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.41 cfs 1,433 cf

Subcatchment D10: SUBCAT D10 Runoff Area=8,279 sf 85.05% Impervious Runoff Depth>1.86"
Tc=6.0 min CN=89 Runoff=0.40 cfs 1,285 cf

Subcatchment D11: SUBCAT D11 Runoff Area=22,108 sf 71.77% Impervious Runoff Depth>1.28"
Tc=6.0 min CN=81 Runoff=0.74 cfs 2,361 cf

Subcatchment D12: SUBCAT D12 Runoff Area=8,350 sf 88.55% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.44 cfs 1,414 cf

Subcatchment D2: SUBCAT D2 Runoff Area=1,690 sf 84.14% Impervious Runoff Depth>1.86"
Tc=6.0 min CN=89 Runoff=0.08 cfs 262 cf

Subcatchment D3: SUBCAT D3 Runoff Area=34,598 sf 51.01% Impervious Runoff Depth>0.65"
Tc=6.0 min CN=69 Runoff=0.50 cfs 1,867 cf

Subcatchment D4: SUBCAT D4 Runoff Area=3,657 sf 72.49% Impervious Runoff Depth>1.35"
Tc=6.0 min CN=82 Runoff=0.13 cfs 410 cf

Subcatchment D5: SUBCAT D5 Runoff Area=6,341 sf 62.81% Impervious Runoff Depth>0.99"
Tc=6.0 min CN=76 Runoff=0.16 cfs 522 cf

Subcatchment D6: SUBCAT D6 Runoff Area=6,633 sf 75.95% Impervious Runoff Depth>1.48"
Tc=6.0 min CN=84 Runoff=0.26 cfs 819 cf

Subcatchment D7: SUBCAT D7 Runoff Area=17,040 sf 81.32% Impervious Runoff Depth>1.70"
Tc=6.0 min CN=87 Runoff=0.77 cfs 2,418 cf

Subcatchment D8: SUBCAT D8 Runoff Area=7,740 sf 84.12% Impervious Runoff Depth>1.86"
Tc=6.0 min CN=89 Runoff=0.38 cfs 1,201 cf

Subcatchment D9: SUBCAT D9 Runoff Area=19,265 sf 81.28% Impervious Runoff Depth>1.70"
Tc=6.0 min CN=87 Runoff=0.87 cfs 2,734 cf

Subcatchment E1: SUBCAT E1 Runoff Area=5,639 sf 95.66% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=0.34 cfs 1,132 cf

Subcatchment E10: SUBCAT E10 Runoff Area=11,128 sf 61.34% Impervious Runoff Depth>0.93"
Tc=6.0 min CN=75 Runoff=0.26 cfs 866 cf

Subcatchment E11: SUBCAT E11 Runoff Area=23,375 sf 93.96% Impervious Runoff Depth>2.31"
Tc=6.0 min CN=94 Runoff=1.37 cfs 4,499 cf

Subcatchment E12: SUBCAT E12 Runoff Area=18,833 sf 95.13% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=1.13 cfs 3,780 cf

Subcatchment E13: SUBCAT E13 Runoff Area=35,467 sf 94.58% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=2.14 cfs 7,119 cf

Subcatchment E14: SUBCAT E14 Runoff Area=27,808 sf 98.14% Impervious Runoff Depth>2.62"
Tc=6.0 min CN=97 Runoff=1.76 cfs 6,064 cf

Subcatchment E15: SUBCAT E15 Runoff Area=32,392 sf 98.14% Impervious Runoff Depth>2.62"
Tc=6.0 min CN=97 Runoff=2.05 cfs 7,064 cf

Subcatchment E16: SUBCAT E16 Runoff Area=30,721 sf 76.36% Impervious Runoff Depth>1.48"
Tc=6.0 min CN=84 Runoff=1.20 cfs 3,794 cf

Subcatchment E17: SUBCAT E17 Runoff Area=120,518 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=190' Tc=7.2 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E18: SUBCAT E18 Runoff Area=11,752 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E19: SUBCAT E19 Runoff Area=75,753 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E2: SUBCAT E2 Runoff Area=6,746 sf 96.37% Impervious Runoff Depth>2.51"
Tc=6.0 min CN=96 Runoff=0.42 cfs 1,412 cf

Subcatchment E3: SUBCAT E3 Runoff Area=10,197 sf 93.34% Impervious Runoff Depth>2.31"
Tc=6.0 min CN=94 Runoff=0.60 cfs 1,963 cf

Subcatchment E4: SUBCAT E4 Runoff Area=11,078 sf 88.18% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.59 cfs 1,876 cf

Subcatchment E5: SUBCAT E5 Runoff Area=9,740 sf 67.06% Impervious Runoff Depth>1.16"
Tc=6.0 min CN=79 Runoff=0.29 cfs 940 cf

Subcatchment E6: SUBCAT E6 Runoff Area=13,215 sf 67.23% Impervious Runoff Depth>1.16"
Tc=6.0 min CN=79 Runoff=0.40 cfs 1,275 cf

Subcatchment E7: SUBCAT E7 Runoff Area=9,100 sf 90.92% Impervious Runoff Depth>2.21"
Tc=6.0 min CN=93 Runoff=0.52 cfs 1,679 cf

Subcatchment E8: SUBCAT E8 Runoff Area=12,697 sf 90.53% Impervious Runoff Depth>2.12"
Tc=6.0 min CN=92 Runoff=0.70 cfs 2,245 cf

Subcatchment E9: SUBCAT E9 Runoff Area=3,988 sf 94.93% Impervious Runoff Depth>2.41"
Tc=6.0 min CN=95 Runoff=0.24 cfs 800 cf

Subcatchment G1: SUBCAT G1 Runoff Area=203,535 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=1,090' Tc=11.8 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.02"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=0.02 cfs 546 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.00"
Tc=6.0 min CN=42 Runoff=0.01 cfs 72 cf

Subcatchment R1: SUBCAT R1 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.46 cfs 1,636 cf

Subcatchment R10: SUBCAT R10 Runoff Area=32,400 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.08 cfs 7,362 cf

Subcatchment R11: SUBCAT R11 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R12: SUBCAT R12 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R13: SUBCAT R13 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.69 cfs 5,982 cf

Subcatchment R14: SUBCAT R14 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.84 cfs 6,493 cf

Subcatchment R15: SUBCAT R15 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R16: SUBCAT R16 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R17: SUBCAT R17 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R18: SUBCAT R18 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.46 cfs 1,636 cf

Subcatchment R2: SUBCAT R2 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R3: SUBCAT R3 Runoff Area=56,700 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=3.64 cfs 12,884 cf

Subcatchment R4: SUBCAT R4 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.69 cfs 5,982 cf

Subcatchment R5: SUBCAT R5 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=1.84 cfs 6,493 cf

Subcatchment R6: SUBCAT R6 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R7: SUBCAT R7 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R8: SUBCAT R8 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=2.02 cfs 7,158 cf

Subcatchment R9: SUBCAT R9 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.46 cfs 1,636 cf

Subcatchment S1: SUBCAT S1 Runoff Area=57,112 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S10: SUBCAT S10 Runoff Area=96,652 sf 6.11% Impervious Runoff Depth=0.00"
Flow Length=455' Tc=12.0 min CN=34 Runoff=0.00 cfs 0 cf

Subcatchment S11: SUBCAT S11 Runoff Area=113,276 sf 14.81% Impervious Runoff Depth=0.00"
Flow Length=327' Tc=6.0 min CN=40 Runoff=0.00 cfs 0 cf

Subcatchment S12: SUBCAT S12 Runoff Area=23,144 sf 3.59% Impervious Runoff Depth>0.00"
Tc=6.0 min CN=41 Runoff=0.00 cfs 1 cf

Subcatchment S13: SUBCAT S13 Runoff Area=13,348 sf 89.17% Impervious Runoff Depth>2.12"
Tc=6.0 min CN=92 Runoff=0.73 cfs 2,360 cf

Subcatchment S14: SUBCAT S14 Runoff Area=11,820 sf 88.58% Impervious Runoff Depth>2.03"
Tc=6.0 min CN=91 Runoff=0.63 cfs 2,002 cf

Subcatchment S2: SUBCAT S2 Runoff Area=71,723 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S3: SUBCAT S3 Runoff Area=100,949 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S4: SUBCAT S4 Runoff Area=212,906 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S5: SUBCAT S5 Runoff Area=52,646 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S6: SUBCAT S6 Runoff Area=71,750 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S8: SUBCAT S8 Runoff Area=446,502 sf 8.05% Impervious Runoff Depth=0.00"
Flow Length=2,253' Tc=13.6 min CN=35 Runoff=0.00 cfs 0 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.00 cfs 0 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.00 cfs 0 cf

Reach RG: REACH G Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
12.0" Round Pipe n=0.012 L=180.0' S=0.0278 '/' Capacity=6.43 cfs Outflow=0.00 cfs 0 cf

Reach W1: WETLAND REACH 1 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=420.0' S=0.0190 '/' Capacity=177.62 cfs Outflow=0.00 cfs 0 cf

Reach W2: WETLAND REACH 2 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=480.0' S=0.0083 '/' Capacity=117.48 cfs Outflow=0.00 cfs 0 cf

Pond CA1: CB-A1 Peak Elev=156.08' Inflow=0.47 cfs 1,632 cf
12.0" Round Culvert n=0.012 L=83.0' S=0.0100 '/' Outflow=0.47 cfs 1,632 cf

Pond CA2: CB-A2 Peak Elev=156.54' Inflow=0.35 cfs 1,230 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0100 '/' Outflow=0.35 cfs 1,230 cf

Pond CA3: CB-A3 Peak Elev=154.65' Inflow=2.07 cfs 6,714 cf
18.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=2.07 cfs 6,714 cf

Pond CA4: CB-A4 Peak Elev=155.23' Inflow=0.36 cfs 1,170 cf
12.0" Round Culvert n=0.012 L=50.0' S=0.0100 '/' Outflow=0.36 cfs 1,170 cf

Pond CC1: CB-C1 Peak Elev=159.34' Inflow=0.02 cfs 151 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0048 '/' Outflow=0.02 cfs 151 cf

Pond CC10: CB-C10 Peak Elev=152.92' Inflow=9.27 cfs 30,723 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=9.27 cfs 30,723 cf

Pond CC11: CB-C11 Peak Elev=155.97' Inflow=0.20 cfs 645 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0200 '/' Outflow=0.20 cfs 645 cf

Pond CC12: CB-C12 Peak Elev=148.80' Inflow=5.05 cfs 16,642 cf
24.0" Round Culvert n=0.012 L=70.0' S=0.0050 '/' Outflow=5.05 cfs 16,642 cf

Pond CC13: CB-C13 Peak Elev=155.94' Inflow=0.16 cfs 501 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.16 cfs 501 cf

Pond CC14: CB-C14 Peak Elev=149.69' Inflow=4.52 cfs 14,966 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=4.52 cfs 14,966 cf

Pond CC15: CB-C15 Peak Elev=155.95' Inflow=0.17 cfs 549 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.17 cfs 549 cf

Pond CC16: CB-C16 Peak Elev=150.59' Inflow=4.17 cfs 13,785 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=4.17 cfs 13,785 cf

Pond CC17: CB-C17 Peak Elev=153.70' Inflow=7.66 cfs 25,353 cf
30.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=7.66 cfs 25,353 cf

Pond CC18: CB-C18 Peak Elev=154.48' Inflow=6.12 cfs 20,233 cf
30.0" Round Culvert n=0.012 L=168.0' S=0.0050 '/' Outflow=6.12 cfs 20,233 cf

Pond CC19: CB-C19 Peak Elev=155.72' Inflow=4.38 cfs 14,078 cf
24.0" Round Culvert n=0.012 L=181.0' S=0.0050 '/' Outflow=4.38 cfs 14,078 cf

Pond CC2: CB-C2 Peak Elev=159.24' Inflow=0.20 cfs 727 cf
12.0" Round Culvert n=0.012 L=56.0' S=0.0050 '/' Outflow=0.20 cfs 727 cf

Pond CC20: CB-C20 Peak Elev=151.49' Inflow=3.81 cfs 12,556 cf
24.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=3.81 cfs 12,556 cf

Pond CC21: CB-C21 Peak Elev=155.94' Inflow=0.16 cfs 489 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.16 cfs 489 cf

Pond CC22: CB-C22 Peak Elev=155.94' Inflow=0.16 cfs 510 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.16 cfs 510 cf

Pond CC23: CB-C23 Peak Elev=152.41' Inflow=3.49 cfs 11,542 cf
24.0" Round Culvert n=0.012 L=173.0' S=0.0050 '/' Outflow=3.49 cfs 11,542 cf

Pond CC24: CB-C24 Peak Elev=155.23' Inflow=0.69 cfs 2,407 cf
12.0" Round Culvert n=0.012 L=42.0' S=0.0290 '/' Outflow=0.69 cfs 2,407 cf

Pond CC25: CB-C25 Peak Elev=153.41' Inflow=3.14 cfs 10,427 cf
24.0" Round Culvert n=0.012 L=190.0' S=0.0050 '/' Outflow=3.14 cfs 10,427 cf

Pond CC26: CB-C26 Peak Elev=158.51' Inflow=0.49 cfs 1,661 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0224 '/' Outflow=0.49 cfs 1,661 cf

Pond CC27: CB-C27 Peak Elev=158.18' Inflow=2.02 cfs 6,517 cf
18.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=2.02 cfs 6,517 cf

Pond CC28: CB-C28 Peak Elev=158.88' Inflow=1.58 cfs 5,121 cf
15.0" Round Culvert n=0.012 L=101.0' S=0.0050 '/' Outflow=1.58 cfs 5,121 cf

Pond CC29: CB-C29 Peak Elev=160.09' Inflow=0.35 cfs 1,193 cf
12.0" Round Culvert n=0.012 L=77.0' S=0.0200 '/' Outflow=0.35 cfs 1,193 cf

Pond CC3: CB-C3 Peak Elev=158.91' Inflow=0.27 cfs 948 cf
12.0" Round Culvert n=0.012 L=75.0' S=0.0049 '/' Outflow=0.27 cfs 948 cf

Pond CC30: CB-C30 Peak Elev=160.64' Inflow=0.21 cfs 732 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.21 cfs 732 cf

Pond CC31: CB-C31 Peak Elev=159.55' Inflow=1.14 cfs 3,711 cf
15.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=1.14 cfs 3,711 cf

Pond CC32: CB-C32 Peak Elev=161.52' Inflow=0.20 cfs 703 cf
12.0" Round Culvert n=0.012 L=53.0' S=0.0292 '/' Outflow=0.20 cfs 703 cf

Pond CC33: CB-C33 Peak Elev=162.26' Inflow=0.06 cfs 249 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0288 '/' Outflow=0.06 cfs 249 cf

Pond CC34: CB-C34 Peak Elev=160.11' Inflow=0.66 cfs 2,192 cf
12.0" Round Culvert n=0.012 L=88.0' S=0.0050 '/' Outflow=0.66 cfs 2,192 cf

Pond CC35: CB-C35 Peak Elev=159.23' Inflow=0.27 cfs 990 cf
12.0" Round Culvert n=0.012 L=90.0' S=0.0303 '/' Outflow=0.27 cfs 990 cf

Pond CC36: CB-C36 Peak Elev=160.18' Inflow=0.00 cfs 55 cf
12.0" Round Culvert n=0.012 L=40.0' S=0.0267 '/' Outflow=0.00 cfs 55 cf

Pond CC37: CB-C37 Peak Elev=159.48' Inflow=0.17 cfs 611 cf
12.0" Round Culvert n=0.012 L=34.0' S=0.0050 '/' Outflow=0.17 cfs 611 cf

Pond CC38: CB-C38 Peak Elev=161.56' Inflow=0.28 cfs 868 cf
12.0" Round Culvert n=0.012 L=120.0' S=0.0179 '/' Outflow=0.28 cfs 868 cf

Pond CC4: CB-C4 Peak Elev=157.57' Inflow=0.02 cfs 143 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0100 '/' Outflow=0.02 cfs 143 cf

Pond CC5: CB-C5 Peak Elev=159.51' Inflow=0.01 cfs 111 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0100 '/' Outflow=0.01 cfs 111 cf

Pond CC6: CB-C6 Peak Elev=156.67' Inflow=0.26 cfs 1,067 cf
12.0" Round Culvert n=0.012 L=73.0' S=0.0100 '/' Outflow=0.26 cfs 1,067 cf

Pond CC7: CB-C7 Peak Elev=157.31' Inflow=0.12 cfs 478 cf
12.0" Round Culvert n=0.012 L=62.0' S=0.0100 '/' Outflow=0.12 cfs 478 cf

Pond CC8: CB-C8 Peak Elev=150.74' Inflow=12.67 cfs 42,185 cf
36.0" Round Culvert n=0.012 L=85.0' S=0.0051 '/' Outflow=12.67 cfs 42,185 cf

Pond CC9: CB-C9 Peak Elev=152.02' Inflow=10.99 cfs 36,801 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=10.99 cfs 36,801 cf

Pond CD1: CB-D1 Peak Elev=159.40' Inflow=0.41 cfs 1,433 cf
12.0" Round Culvert n=0.012 L=144.0' S=0.0050 '/' Outflow=0.41 cfs 1,433 cf

Pond CD10: CB-D10 Peak Elev=159.07' Inflow=0.40 cfs 1,285 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0300 '/' Outflow=0.40 cfs 1,285 cf

Pond CD11: CB-D11 Peak Elev=154.52' Inflow=5.39 cfs 17,674 cf
24.0" Round Culvert n=0.012 L=264.0' S=0.0133 '/' Outflow=5.39 cfs 17,674 cf

Pond CD12: CB-D12 Peak Elev=158.57' Inflow=0.71 cfs 2,362 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0299 '/' Outflow=0.71 cfs 2,362 cf

Pond CD2: CB-D2 Peak Elev=158.58' Inflow=0.49 cfs 1,695 cf
12.0" Round Culvert n=0.012 L=91.0' S=0.0189 '/' Outflow=0.49 cfs 1,695 cf

Pond CD3: CB-D3 Peak Elev=157.16' Inflow=0.50 cfs 1,867 cf
12.0" Round Culvert n=0.012 L=48.0' S=0.0050 '/' Outflow=0.50 cfs 1,867 cf

Pond CD4: CB-D4 Peak Elev=156.62' Inflow=1.53 cfs 5,313 cf
18.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=1.53 cfs 5,313 cf

Pond CD5: CB-D5 Peak Elev=158.07' Inflow=0.42 cfs 1,341 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0477 '/' Outflow=0.42 cfs 1,341 cf

Pond CD6: CB-D6 Peak Elev=158.43' Inflow=0.26 cfs 819 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0100 '/' Outflow=0.26 cfs 819 cf

Pond CD7: CB-D7 Peak Elev=155.51' Inflow=2.67 cfs 8,932 cf
24.0" Round Culvert n=0.012 L=93.0' S=0.0051 '/' Outflow=2.67 cfs 8,932 cf

Pond CD8: CB-D8 Peak Elev=159.05' Inflow=0.38 cfs 1,201 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0253 '/' Outflow=0.38 cfs 1,201 cf

Pond CD9: CB-D9 Peak Elev=155.10' Inflow=3.94 cfs 12,950 cf
24.0" Round Culvert n=0.012 L=100.0' S=0.0050 '/' Outflow=3.94 cfs 12,950 cf

Pond CE1: CB-E1 Peak Elev=161.14' Inflow=0.34 cfs 1,132 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0661 '/' Outflow=0.34 cfs 1,132 cf

Pond CE10: CB-E10 Peak Elev=152.29' Inflow=16.46 cfs 58,127 cf
42.0" Round Culvert n=0.012 L=43.0' S=0.0049 '/' Outflow=16.46 cfs 58,127 cf

Pond CE11: CB-E11 Peak Elev=152.40' Inflow=9.91 cfs 33,311 cf
30.0" Round Culvert n=0.012 L=104.0' S=0.0050 '/' Outflow=9.91 cfs 33,311 cf

Pond CE12: CB-E12 Peak Elev=153.07' Inflow=8.54 cfs 28,811 cf
30.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=8.54 cfs 28,811 cf

Pond CE13: CB-E13 Peak Elev=153.84' Inflow=7.40 cfs 25,031 cf
30.0" Round Culvert n=0.012 L=161.0' S=0.0050 '/' Outflow=7.40 cfs 25,031 cf

Pond CE14: CB-E14 Peak Elev=154.93' Inflow=5.27 cfs 17,912 cf
24.0" Round Culvert n=0.012 L=155.0' S=0.0050 '/' Outflow=5.27 cfs 17,912 cf

Pond CE15: CB-E15 Peak Elev=155.56' Inflow=3.51 cfs 11,848 cf
24.0" Round Culvert n=0.012 L=134.0' S=0.0050 '/' Outflow=3.51 cfs 11,848 cf

Pond CE16: CB-E16 Peak Elev=156.36' Inflow=1.47 cfs 4,784 cf
18.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=1.47 cfs 4,784 cf

Pond CE17: CB-E17 Peak Elev=161.49' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=64.0' S=0.0100 '/' Outflow=0.00 cfs 0 cf

Pond CE18: CB-E18 Peak Elev=156.59' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.00 cfs 0 cf

Pond CE19: CB-E19 Peak Elev=157.30' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.00 cfs 0 cf

Pond CE2: CB-E2 Peak Elev=161.07' Inflow=0.42 cfs 1,412 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0612 '/' Outflow=0.42 cfs 1,412 cf

Pond CE3: CB-E3 Peak Elev=154.14' Inflow=4.35 cfs 14,190 cf
24.0" Round Culvert n=0.012 L=178.0' S=0.0050 '/' Outflow=4.35 cfs 14,190 cf

Pond CE4: CB-E4 Peak Elev=154.52' Inflow=3.42 cfs 11,095 cf
24.0" Round Culvert n=0.012 L=60.0' S=0.0050 '/' Outflow=3.42 cfs 11,095 cf

Pond CE5: CB-E5 Peak Elev=155.26' Inflow=2.41 cfs 7,807 cf
18.0" Round Culvert n=0.012 L=76.0' S=0.0050 '/' Outflow=2.41 cfs 7,807 cf

Pond CE6: CB-E6 Peak Elev=156.01' Inflow=2.12 cfs 6,867 cf
18.0" Round Culvert n=0.012 L=140.0' S=0.0050 '/' Outflow=2.12 cfs 6,867 cf

Pond CE7: CB-E7 Peak Elev=156.69' Inflow=1.73 cfs 5,592 cf
15.0" Round Culvert n=0.012 L=95.0' S=0.0049 '/' Outflow=1.73 cfs 5,592 cf

Pond CE8: CB-E8 Peak Elev=157.36' Inflow=1.21 cfs 3,913 cf
15.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=1.21 cfs 3,913 cf

Pond CE9: CB-E9 Peak Elev=159.41' Inflow=0.52 cfs 1,668 cf
12.0" Round Culvert n=0.012 L=94.0' S=0.0218 '/' Outflow=0.52 cfs 1,668 cf

Pond CS13: CB-S13 Peak Elev=155.52' Inflow=1.36 cfs 4,362 cf
15.0" Round Culvert n=0.012 L=145.0' S=0.0050 '/' Outflow=1.36 cfs 4,362 cf

Pond CS14: CB-S14 Peak Elev=156.56' Inflow=0.63 cfs 2,002 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0100 '/' Outflow=0.63 cfs 2,002 cf

Pond DC1: DMH-C1 Peak Elev=157.47' Inflow=2.51 cfs 8,178 cf
18.0" Round Culvert n=0.012 L=155.0' S=0.0096 '/' Outflow=2.51 cfs 8,178 cf

Pond DC10: DMH-C10 Peak Elev=151.64' Inflow=16.20 cfs 57,261 cf
36.0" Round Culvert n=0.012 L=247.0' S=0.0050 '/' Outflow=16.20 cfs 57,261 cf

Pond DC11: DMH-C11 Peak Elev=147.57' Inflow=17.98 cfs 59,894 cf
42.0" Round Culvert n=0.012 L=174.0' S=0.0050 '/' Outflow=17.98 cfs 59,894 cf

Pond DC2: DMH-C2 Peak Elev=158.11' Inflow=0.46 cfs 1,636 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.46 cfs 1,636 cf

Pond DC3: DMH-C3 Peak Elev=157.24' Inflow=2.49 cfs 8,794 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=2.49 cfs 8,794 cf

Pond DC4: DMH-C4 Peak Elev=156.34' Inflow=4.51 cfs 15,951 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=4.51 cfs 15,951 cf

Pond DC5: DMH-C5 Peak Elev=155.71' Inflow=6.54 cfs 23,109 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=6.54 cfs 23,109 cf

Pond DC6: DMH-C6 Peak Elev=154.80' Inflow=8.37 cfs 29,602 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=8.37 cfs 29,602 cf

Pond DC7: DMH-C7 Peak Elev=154.25' Inflow=10.07 cfs 35,584 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=10.07 cfs 35,584 cf

Pond DC8: DMH-C8 Peak Elev=153.51' Inflow=12.09 cfs 42,741 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=12.09 cfs 42,741 cf

Pond DC9: DMH-C9 Peak Elev=152.45' Inflow=14.12 cfs 49,899 cf
36.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=14.12 cfs 49,899 cf

Pond DD1: DMH-D1 Peak Elev=151.02' Inflow=15.82 cfs 103,499 cf
30.0" Round Culvert n=0.012 L=273.0' S=0.0050 '/' Outflow=15.82 cfs 103,499 cf

Pond DD2: DMH-D2 Peak Elev=149.64' Inflow=15.82 cfs 103,499 cf
30.0" Round Culvert n=0.012 L=183.0' S=0.0050 '/' Outflow=15.82 cfs 103,499 cf

Pond DD3: DMH-D3 Peak Elev=148.62' Inflow=15.82 cfs 103,499 cf
30.0" Round Culvert n=0.012 L=131.0' S=0.0050 '/' Outflow=15.82 cfs 103,499 cf

Pond DD4: DMH-DD4 Peak Elev=147.71' Inflow=15.82 cfs 103,499 cf
30.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=15.82 cfs 103,499 cf

Pond DE1: DMH-E1 Peak Elev=158.11' Inflow=0.46 cfs 1,636 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.46 cfs 1,636 cf

Pond DE2: DMH-E2 Peak Elev=157.24' Inflow=2.49 cfs 8,794 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=2.49 cfs 8,794 cf

Pond DE3: DMH-E3 Peak Elev=156.34' Inflow=4.51 cfs 15,951 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=4.51 cfs 15,951 cf

Pond DE4: DMH-E4 Peak Elev=155.71' Inflow=6.54 cfs 23,109 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=6.54 cfs 23,109 cf

Pond DE5: DMH-E5 Peak Elev=154.78' Inflow=8.37 cfs 29,602 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=8.37 cfs 29,602 cf

Pond DE6: DMH-E9 Peak Elev=154.13' Inflow=10.07 cfs 35,584 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=10.07 cfs 35,584 cf

Pond DE7: DMH-E7 Peak Elev=152.86' Inflow=16.20 cfs 57,261 cf
42.0" Round Culvert n=0.012 L=78.0' S=0.0050 '/' Outflow=16.20 cfs 57,261 cf

Pond DE8: DMH-E8 Peak Elev=156.16' Inflow=2.49 cfs 8,794 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0178 '/' Outflow=2.49 cfs 8,794 cf

Pond DE9: DMH-E9 Peak Elev=158.99' Inflow=0.46 cfs 1,636 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0200 '/' Outflow=0.46 cfs 1,636 cf

Pond PC: POND C Peak Elev=145.55' Storage=41,788 cf Inflow=34.17 cfs 117,155 cf
Discarded=3.61 cfs 117,126 cf Primary=0.00 cfs 0 cf Outflow=3.61 cfs 117,126 cf

Pond PD: POND D Peak Elev=144.38' Storage=49,230 cf Inflow=19.56 cfs 121,172 cf
Discarded=2.73 cfs 121,138 cf Primary=0.00 cfs 0 cf Outflow=2.73 cfs 121,138 cf

Pond PE: POND E Peak Elev=152.09' Storage=37,388 cf Inflow=30.71 cfs 105,628 cf
Outflow=15.82 cfs 103,499 cf

Pond PH: POND H Peak Elev=150.00' Storage=13,654 cf Inflow=0.00 cfs 1 cf
Outflow=0.00 cfs 0 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L2: RIVER Inflow=0.02 cfs 618 cf
Primary=0.02 cfs 618 cf

Link L3: EX CULVERTS Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L4: WEST PROPERTY LINE Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L6: FOX HOLLOW

Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Total Runoff Area = 3,619,215 sf Runoff Volume = 241,076 cf Average Runoff Depth = 0.80"
65.35% Pervious = 2,365,273 sf 34.65% Impervious = 1,253,942 sf

Summary for Subcatchment A1: SUBCAT A1

Runoff = 0.12 cfs @ 12.10 hrs, Volume= 403 cf, Depth> 0.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,089	98	Proposed Pavement
	1,806	39	>75% Grass cover, Good, HSG A
	4,895	76	Weighted Average
	1,806		36.89% Pervious Area
	3,089		63.11% Impervious Area

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

Summary for Subcatchment A2: SUBCAT A2

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 1,230 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,412	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,412	98	Weighted Average
	5,412		100.00% Impervious Area

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

Summary for Subcatchment A3: SUBCAT A3

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 1,182 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,572	98	Proposed Pavement
	317	39	>75% Grass cover, Good, HSG A
	5,889	95	Weighted Average
	317		5.38% Pervious Area
	5,572		94.62% Impervious Area

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

Summary for Subcatchment A4: SUBCAT A4

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 1,170 cf, Depth> 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,929	98	Proposed Pavement
	687	39	>75% Grass cover, Good, HSG A
	6,616	92	Weighted Average
	687		10.38% Pervious Area
	5,929		89.62% Impervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C1: SUBCAT C1

Runoff = 0.02 cfs @ 12.27 hrs, Volume= 151 cf, Depth> 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,170	98	Proposed Pavement
	4,084	39	>75% Grass cover, Good, HSG A
	6,254	59	Weighted Average
	4,084		65.30% Pervious Area
	2,170		34.70% Impervious Area

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

Summary for Subcatchment C10: SUBCAT C10

Runoff = 1.61 cfs @ 12.09 hrs, Volume= 5,370 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	25,480	98	Proposed Pavement
	1,272	39	>75% Grass cover, Good, HSG A
	26,752	95	Weighted Average
	1,272		4.75% Pervious Area
	25,480		95.25% Impervious Area

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

Summary for Subcatchment C11: SUBCAT C11

Runoff = 0.20 cfs @ 12.10 hrs, Volume= 645 cf, Depth> 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	4,311	98	Proposed Pavement
	1,733	39	>75% Grass cover, Good, HSG A
	6,044	81	Weighted Average
	1,733		28.67% Pervious Area
	4,311		71.33% Impervious Area

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

Summary for Subcatchment C12: SUBCAT C12

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,030 cf, Depth> 1.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,391	98	Proposed Pavement
	1,950	39	>75% Grass cover, Good, HSG A
	8,341	84	Weighted Average
	1,950		23.38% Pervious Area
	6,391		76.62% Impervious Area

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

Summary for Subcatchment C13: SUBCAT C13

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 501 cf, Depth> 1.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	880	39	>75% Grass cover, Good, HSG A
	3,872	85	Weighted Average
	880		22.73% Pervious Area
	2,992		77.27% Impervious Area

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

Summary for Subcatchment C14: SUBCAT C14

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 680 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C15: SUBCAT C15

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 549 cf, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,152	98	Proposed Pavement
	720	39	>75% Grass cover, Good, HSG A
	3,872	87	Weighted Average
	720		18.60% Pervious Area
	3,152		81.40% Impervious Area

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

Summary for Subcatchment C16: SUBCAT C16

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 680 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C17: SUBCAT C17

Runoff = 1.54 cfs @ 12.09 hrs, Volume= 5,120 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	24,242	98	Proposed Pavement
	1,264	39	>75% Grass cover, Good, HSG A
	25,506	95	Weighted Average
	1,264		4.96% Pervious Area
	24,242		95.04% Impervious Area

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

Summary for Subcatchment C18: SUBCAT C18

Runoff = 1.74 cfs @ 12.09 hrs, Volume= 6,155 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	26,918	98	Proposed Pavement
	169	39	>75% Grass cover, Good, HSG A
	27,087	98	Weighted Average
	169		0.62% Pervious Area
	26,918		99.38% Impervious Area

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

Summary for Subcatchment C19: SUBCAT C19

Runoff = 1.87 cfs @ 12.09 hrs, Volume= 5,901 cf, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	33,675	98	Proposed Pavement
	7,909	39	>75% Grass cover, Good, HSG A
	41,584	87	Weighted Average
	7,909		19.02% Pervious Area
	33,675		80.98% Impervious Area

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

Summary for Subcatchment C2: SUBCAT C2

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 576 cf, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,416	98	Proposed Pavement
	833	39	>75% Grass cover, Good, HSG A
	4,249	86	Weighted Average
	833		19.60% Pervious Area
	3,416		80.40% Impervious Area

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

Summary for Subcatchment C20: SUBCAT C20

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 524 cf, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,013	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	3,692	87	Weighted Average
	679		18.39% Pervious Area
	3,013		81.61% Impervious Area

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

Summary for Subcatchment C21: SUBCAT C21

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 489 cf, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,853	98	Proposed Pavement
	757	39	>75% Grass cover, Good, HSG A
	3,610	86	Weighted Average
	757		20.97% Pervious Area
	2,853		79.03% Impervious Area

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

Summary for Subcatchment C22: SUBCAT C22

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 510 cf, Depth> 1.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,040	98	Proposed Pavement
	900	39	>75% Grass cover, Good, HSG A
	3,940	85	Weighted Average
	900		22.84% Pervious Area
	3,040		77.16% Impervious Area

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

Summary for Subcatchment C23: SUBCAT C23

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 605 cf, Depth> 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,092	98	Proposed Pavement
	332	39	>75% Grass cover, Good, HSG A
	3,424	92	Weighted Average
	332		9.70% Pervious Area
	3,092		90.30% Impervious Area

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

Summary for Subcatchment C24: SUBCAT C24

Runoff = 0.23 cfs @ 12.10 hrs, Volume= 775 cf, Depth> 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,366	98	Proposed Pavement
	4,815	39	>75% Grass cover, Good, HSG A
	11,181	73	Weighted Average
	4,815		43.06% Pervious Area
	6,366		56.94% Impervious Area

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

Summary for Subcatchment C25: SUBCAT C25

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,306 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,747	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,747	98	Weighted Average
	5,747		100.00% Impervious Area

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

Summary for Subcatchment C26: SUBCAT C26

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 467 cf, Depth> 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,336	98	Proposed Pavement
	197	39	>75% Grass cover, Good, HSG A
	2,533	93	Weighted Average
	197		7.78% Pervious Area
	2,336		92.22% Impervious Area

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

Summary for Subcatchment C27: SUBCAT C27

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,396 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,324	98	Proposed Pavement
	919	39	>75% Grass cover, Good, HSG A
	8,243	91	Weighted Average
	919		11.15% Pervious Area
	7,324		88.85% Impervious Area

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

Summary for Subcatchment C28: SUBCAT C28

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,410 cf, Depth> 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,771	98	Proposed Pavement
	1,318	39	>75% Grass cover, Good, HSG A
	9,089	89	Weighted Average
	1,318		14.50% Pervious Area
	7,771		85.50% Impervious Area

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

Summary for Subcatchment C29: SUBCAT C29

Runoff = 0.14 cfs @ 12.10 hrs, Volume= 462 cf, Depth> 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	1,565	39	>75% Grass cover, Good, HSG A
	4,785	79	Weighted Average
	1,565		32.71% Pervious Area
	3,220		67.29% Impervious Area

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

Summary for Subcatchment C3: SUBCAT C3

Runoff = 0.07 cfs @ 12.09 hrs, Volume= 222 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,145	98	Proposed Pavement
	164	39	>75% Grass cover, Good, HSG A
	1,309	91	Weighted Average
	164		12.53% Pervious Area
	1,145		87.47% Impervious Area

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

Summary for Subcatchment C30: SUBCAT C30

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 732 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	3,220	98	Weighted Average
	3,220		100.00% Impervious Area

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

Summary for Subcatchment C31: SUBCAT C31

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,518 cf, Depth> 1.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	8,105	98	Proposed Pavement
	1,257	39	>75% Grass cover, Good, HSG A
	9,362	90	Weighted Average
	1,257		13.43% Pervious Area
	8,105		86.57% Impervious Area

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

Summary for Subcatchment C32: SUBCAT C32

Runoff = 0.14 cfs @ 12.10 hrs, Volume= 455 cf, Depth> 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,188	98	Proposed Pavement
	1,522	39	>75% Grass cover, Good, HSG A
	4,710	79	Weighted Average
	1,522		32.31% Pervious Area
	3,188		67.69% Impervious Area

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

Summary for Subcatchment C33: SUBCAT C33

Runoff = 0.06 cfs @ 12.12 hrs, Volume= 249 cf, Depth> 0.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,191	98	Proposed Pavement
	2,940	30	Brush, Good, HSG A
	6,131	65	Weighted Average
	2,940		47.95% Pervious Area
	3,191		52.05% Impervious Area

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

Summary for Subcatchment C34: SUBCAT C34

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,489 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,727	98	Proposed Pavement
	1,065	39	>75% Grass cover, Good, HSG A
	8,792	91	Weighted Average
	1,065		12.11% Pervious Area
	7,727		87.89% Impervious Area

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

Summary for Subcatchment C35: SUBCAT C35

Runoff = 0.10 cfs @ 12.10 hrs, Volume= 324 cf, Depth> 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,325	98	Proposed Pavement
	1,216	39	>75% Grass cover, Good, HSG A
	3,541	78	Weighted Average
	1,216		34.34% Pervious Area
	2,325		65.66% Impervious Area

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

Summary for Subcatchment C36: SUBCAT C36

Runoff = 0.00 cfs @ 12.44 hrs, Volume= 55 cf, Depth> 0.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,589	98	Proposed Pavement
	3,097	30	Brush, Good, HSG A
	4,686	53	Weighted Average
	3,097		66.09% Pervious Area
	1,589		33.91% Impervious Area

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

Summary for Subcatchment C37: SUBCAT C37

Runoff = 0.17 cfs @ 12.11 hrs, Volume= 611 cf, Depth> 0.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,620	98	Proposed Pavement
	4,981	39	>75% Grass cover, Good, HSG A
	10,601	70	Weighted Average
	4,981		46.99% Pervious Area
	5,620		53.01% Impervious Area

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

Summary for Subcatchment C38: SUBCAT C38

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 868 cf, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,075	98	Proposed Pavement
	1,325	39	>75% Grass cover, Good, HSG A
	6,400	86	Weighted Average
	1,325		20.70% Pervious Area
	5,075		79.30% Impervious Area

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

Summary for Subcatchment C4: SUBCAT C4

Runoff = 0.02 cfs @ 12.27 hrs, Volume= 143 cf, Depth> 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,976	98	Proposed Pavement
	3,961	39	>75% Grass cover, Good, HSG A
	5,937	59	Weighted Average
	3,961		66.72% Pervious Area
	1,976		33.28% Impervious Area

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

Summary for Subcatchment C5: SUBCAT C5

Runoff = 0.01 cfs @ 12.31 hrs, Volume= 111 cf, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,663	98	Proposed Pavement
	3,462	39	>75% Grass cover, Good, HSG A
	5,125	58	Weighted Average
	3,462		67.55% Pervious Area
	1,663		32.45% Impervious Area

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

Summary for Subcatchment C6: SUBCAT C6

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 478 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,104	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,104	98	Weighted Average
	2,104		100.00% Impervious Area

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

Summary for Subcatchment C7: SUBCAT C7

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 335 cf, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,980	98	Proposed Pavement
	489	39	>75% Grass cover, Good, HSG A
	2,469	86	Weighted Average
	489		19.81% Pervious Area
	1,980		80.19% Impervious Area

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

Summary for Subcatchment C8: SUBCAT C8

Runoff = 1.68 cfs @ 12.09 hrs, Volume= 5,384 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	27,832	98	Proposed Pavement
	3,957	39	>75% Grass cover, Good, HSG A
	31,789	91	Weighted Average
	3,957		12.45% Pervious Area
	27,832		87.55% Impervious Area

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

Summary for Subcatchment C9: SUBCAT C9

Runoff = 1.72 cfs @ 12.09 hrs, Volume= 6,079 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	26,576	98	Proposed Pavement
	176	39	>75% Grass cover, Good, HSG A
	26,752	98	Weighted Average
	176		0.66% Pervious Area
	26,576		99.34% Impervious Area

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

Summary for Subcatchment D1: SUBCAT D1

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 1,433 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,306	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	6,306	98	Weighted Average
	6,306		100.00% Impervious Area

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

Summary for Subcatchment D10: SUBCAT D10

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,285 cf, Depth> 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,041	98	Proposed Pavement
	1,238	39	>75% Grass cover, Good, HSG A
	8,279	89	Weighted Average
	1,238		14.95% Pervious Area
	7,041		85.05% Impervious Area

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

Summary for Subcatchment D11: SUBCAT D11

Runoff = 0.74 cfs @ 12.10 hrs, Volume= 2,361 cf, Depth> 1.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	15,866	98	Proposed Pavement
	6,242	39	>75% Grass cover, Good, HSG A
	22,108	81	Weighted Average
	6,242		28.23% Pervious Area
	15,866		71.77% Impervious Area

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

Summary for Subcatchment D12: SUBCAT D12

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,414 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,394	98	Proposed Pavement
	956	39	>75% Grass cover, Good, HSG A
	8,350	91	Weighted Average
	956		11.45% Pervious Area
	7,394		88.55% Impervious Area

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

Summary for Subcatchment D2: SUBCAT D2

Runoff = 0.08 cfs @ 12.09 hrs, Volume= 262 cf, Depth> 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	1,422	98	Proposed Pavement
	268	39	>75% Grass cover, Good, HSG A
	1,690	89	Weighted Average
	268		15.86% Pervious Area
	1,422		84.14% Impervious Area

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

Summary for Subcatchment D3: SUBCAT D3

Runoff = 0.50 cfs @ 12.11 hrs, Volume= 1,867 cf, Depth> 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	17,650	98	Proposed Pavement
	16,948	39	>75% Grass cover, Good, HSG A
	34,598	69	Weighted Average
	16,948		48.99% Pervious Area
	17,650		51.01% Impervious Area

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

Summary for Subcatchment D4: SUBCAT D4

Runoff = 0.13 cfs @ 12.10 hrs, Volume= 410 cf, Depth> 1.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	2,651	98	Proposed Pavement
	1,006	39	>75% Grass cover, Good, HSG A
	3,657	82	Weighted Average
	1,006		27.51% Pervious Area
	2,651		72.49% Impervious Area

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

Summary for Subcatchment D5: SUBCAT D5

Runoff = 0.16 cfs @ 12.10 hrs, Volume= 522 cf, Depth> 0.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,983	98	Proposed Pavement
	2,358	39	>75% Grass cover, Good, HSG A
	6,341	76	Weighted Average
	2,358		37.19% Pervious Area
	3,983		62.81% Impervious Area

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

Summary for Subcatchment D6: SUBCAT D6

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 819 cf, Depth> 1.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,038	98	Proposed Pavement
	1,595	39	>75% Grass cover, Good, HSG A
	6,633	84	Weighted Average
	1,595		24.05% Pervious Area
	5,038		75.95% Impervious Area

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

Summary for Subcatchment D7: SUBCAT D7

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 2,418 cf, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	13,857	98	Proposed Pavement
	3,183	39	>75% Grass cover, Good, HSG A
	17,040	87	Weighted Average
	3,183		18.68% Pervious Area
	13,857		81.32% Impervious Area

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

Summary for Subcatchment D8: SUBCAT D8

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,201 cf, Depth> 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,511	98	Proposed Pavement
	1,229	39	>75% Grass cover, Good, HSG A
	7,740	89	Weighted Average
	1,229		15.88% Pervious Area
	6,511		84.12% Impervious Area

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

Summary for Subcatchment D9: SUBCAT D9

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 2,734 cf, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	15,659	98	Proposed Pavement
	3,606	39	>75% Grass cover, Good, HSG A
	19,265	87	Weighted Average
	3,606		18.72% Pervious Area
	15,659		81.28% Impervious Area

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

Summary for Subcatchment E1: SUBCAT E1

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 1,132 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	5,394	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	5,639	95	Weighted Average
	245		4.34% Pervious Area
	5,394		95.66% Impervious Area

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

Summary for Subcatchment E10: SUBCAT E10

Runoff = 0.26 cfs @ 12.10 hrs, Volume= 866 cf, Depth> 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,826	98	Proposed Pavement
	4,302	39	>75% Grass cover, Good, HSG A
	11,128	75	Weighted Average
	4,302		38.66% Pervious Area
	6,826		61.34% Impervious Area

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

Summary for Subcatchment E11: SUBCAT E11

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 4,499 cf, Depth> 2.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	21,962	98	Proposed Pavement
	1,413	39	>75% Grass cover, Good, HSG A
	23,375	94	Weighted Average
	1,413		6.04% Pervious Area
	21,962		93.96% Impervious Area

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

Summary for Subcatchment E12: SUBCAT E12

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 3,780 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	17,915	98	Proposed Pavement
	918	39	>75% Grass cover, Good, HSG A
	18,833	95	Weighted Average
	918		4.87% Pervious Area
	17,915		95.13% Impervious Area

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

Summary for Subcatchment E13: SUBCAT E13

Runoff = 2.14 cfs @ 12.09 hrs, Volume= 7,119 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	33,543	98	Proposed Pavement
	1,924	39	>75% Grass cover, Good, HSG A
	35,467	95	Weighted Average
	1,924		5.42% Pervious Area
	33,543		94.58% Impervious Area

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

Summary for Subcatchment E14: SUBCAT E14

Runoff = 1.76 cfs @ 12.09 hrs, Volume= 6,064 cf, Depth> 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	27,291	98	Proposed Pavement
	517	39	>75% Grass cover, Good, HSG A
	27,808	97	Weighted Average
	517		1.86% Pervious Area
	27,291		98.14% Impervious Area

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

Summary for Subcatchment E15: SUBCAT E15

Runoff = 2.05 cfs @ 12.09 hrs, Volume= 7,064 cf, Depth> 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,789	98	Proposed Pavement
	603	39	>75% Grass cover, Good, HSG A
	32,392	97	Weighted Average
	603		1.86% Pervious Area
	31,789		98.14% Impervious Area

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

Summary for Subcatchment E16: SUBCAT E16

Runoff = 1.20 cfs @ 12.09 hrs, Volume= 3,794 cf, Depth> 1.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	23,459	98	Proposed Pavement
	7,262	39	>75% Grass cover, Good, HSG A
	30,721	84	Weighted Average
	7,262		23.64% Pervious Area
	23,459		76.36% Impervious Area

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

Summary for Subcatchment E17: SUBCAT E17

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	30,658	30	Brush, Good, HSG A
	89,860	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	120,518	30	Weighted Average
	120,518		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	55	0.1200	1.73		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	85	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
7.2	190	Total			

Summary for Subcatchment E18: SUBCAT E18

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	11,752	30	Brush, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	11,752	30	Weighted Average
	11,752		100.00% Pervious Area

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

Summary for Subcatchment E19: SUBCAT E19

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	43,151	30	Brush, Good, HSG A
	32,602	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	75,753	30	Weighted Average
	75,753		100.00% Pervious Area

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

Summary for Subcatchment E2: SUBCAT E2

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,412 cf, Depth> 2.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,501	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	6,746	96	Weighted Average
	245		3.63% Pervious Area
	6,501		96.37% Impervious Area

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

Summary for Subcatchment E3: SUBCAT E3

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 1,963 cf, Depth> 2.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	9,518	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	10,197	94	Weighted Average
	679		6.66% Pervious Area
	9,518		93.34% Impervious Area

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

Summary for Subcatchment E4: SUBCAT E4

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 1,876 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	9,769	98	Proposed Pavement
	1,309	39	>75% Grass cover, Good, HSG A
	11,078	91	Weighted Average
	1,309		11.82% Pervious Area
	9,769		88.18% Impervious Area

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

Summary for Subcatchment E5: SUBCAT E5

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 940 cf, Depth> 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	6,532	98	Proposed Pavement
	3,208	39	>75% Grass cover, Good, HSG A
	9,740	79	Weighted Average
	3,208		32.94% Pervious Area
	6,532		67.06% Impervious Area

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

Summary for Subcatchment E6: SUBCAT E6

Runoff = 0.40 cfs @ 12.10 hrs, Volume= 1,275 cf, Depth> 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	8,885	98	Proposed Pavement
	4,330	39	>75% Grass cover, Good, HSG A
	13,215	79	Weighted Average
	4,330		32.77% Pervious Area
	8,885		67.23% Impervious Area

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

Summary for Subcatchment E7: SUBCAT E7

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 1,679 cf, Depth> 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	8,274	98	Proposed Pavement
	826	39	>75% Grass cover, Good, HSG A
	9,100	93	Weighted Average
	826		9.08% Pervious Area
	8,274		90.92% Impervious Area

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

Summary for Subcatchment E8: SUBCAT E8

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,245 cf, Depth> 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	11,495	98	Proposed Pavement
	1,202	39	>75% Grass cover, Good, HSG A
	12,697	92	Weighted Average
	1,202		9.47% Pervious Area
	11,495		90.53% Impervious Area

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

Summary for Subcatchment E9: SUBCAT E9

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 800 cf, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	3,786	98	Proposed Pavement
	202	39	>75% Grass cover, Good, HSG A
	3,988	95	Weighted Average
	202		5.07% Pervious Area
	3,786		94.93% Impervious Area

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

Summary for Subcatchment G1: SUBCAT G1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	130,014	30	Brush, Good, HSG A
	73,521	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	203,535	30	Weighted Average
	203,535		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.3	214	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.1	36	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0	790	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030 Stream, clean & straight
11.8	1,090	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 0.02 cfs @ 17.20 hrs, Volume= 546 cf, Depth> 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 0.01 cfs @ 23.95 hrs, Volume= 72 cf, Depth> 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	75,110	61	>75% Grass cover, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	42	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Subcatchment R1: SUBCAT R1

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R10: SUBCAT R10

Runoff = 2.08 cfs @ 12.09 hrs, Volume= 7,362 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	32,400	98	Proposed Building
	32,400		100.00% Impervious Area

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

Summary for Subcatchment R11: SUBCAT R11

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R12: SUBCAT R12

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R13: SUBCAT R13

Runoff = 1.69 cfs @ 12.09 hrs, Volume= 5,982 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R14: SUBCAT R14

Runoff = 1.84 cfs @ 12.09 hrs, Volume= 6,493 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R15: SUBCAT R15

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R16: SUBCAT R16

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R17: SUBCAT R17

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R18: SUBCAT R18

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R2: SUBCAT R2

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R3: SUBCAT R3

Runoff = 3.64 cfs @ 12.09 hrs, Volume= 12,884 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	56,700	98	Proposed Building
	56,700		100.00% Impervious Area

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

Summary for Subcatchment R4: SUBCAT R4

Runoff = 1.69 cfs @ 12.09 hrs, Volume= 5,982 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R5: SUBCAT R5

Runoff = 1.84 cfs @ 12.09 hrs, Volume= 6,493 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R6: SUBCAT R6

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R7: SUBCAT R7

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R8: SUBCAT R8

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 7,158 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R9: SUBCAT R9

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment S1: SUBCAT S1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	816	39	>75% Grass cover, Good, HSG A
	56,296	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	57,112	30	Weighted Average
	57,112		100.00% Pervious Area

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

Summary for Subcatchment S10: SUBCAT S10

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	19,991	30	Brush, Good, HSG A
	70,751	30	Woods, Good, HSG A
*	5,910	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	96,652	34	Weighted Average
	90,742		93.89% Pervious Area
	5,910		6.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
1.5	105	0.0570	1.19		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.8	300	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
12.0	455	Total			

Summary for Subcatchment S11: SUBCAT S11

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	38,318	30	Brush, Good, HSG A
	58,186	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	1,378	98	Ex. Pavement
	113,276	40	Weighted Average
	96,504		85.19% Pervious Area
	16,772		14.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	50	0.2400	0.18		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	62	0.1600	2.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.6	215	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
5.9	327	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment S12: SUBCAT S12

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 1 cf, Depth> 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	22,313	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	573	98	Ex. Pavement
*	258	98	Proposed Pavement
	23,144	41	Weighted Average
	22,313		96.41% Pervious Area
	831		3.59% Impervious Area

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

Summary for Subcatchment S13: SUBCAT S13

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 2,360 cf, Depth> 2.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	1,445	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	6,578	98	Ex. Pavement
*	5,325	98	Proposed Pavement
	13,348	92	Weighted Average
	1,445		10.83% Pervious Area
	11,903		89.17% Impervious Area

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

Summary for Subcatchment S14: SUBCAT S14

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,002 cf, Depth> 2.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	1,350	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	4,039	98	Ex. Pavement
*	6,431	98	Proposed Pavement
	11,820	91	Weighted Average
	1,350		11.42% Pervious Area
	10,470		88.58% Impervious Area

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

Summary for Subcatchment S2: SUBCAT S2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	4,954	30	Brush, Good, HSG A
	66,769	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,723	30	Weighted Average
	71,723		100.00% Pervious Area

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

Summary for Subcatchment S3: SUBCAT S3

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	76,797	30	Brush, Good, HSG A
	24,152	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	100,949	30	Weighted Average
	100,949		100.00% Pervious Area

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

Summary for Subcatchment S4: SUBCAT S4

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	61,547	30	Brush, Good, HSG A
	151,359	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	212,906	30	Weighted Average
	212,906		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment S5: SUBCAT S5

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	46,285	30	Brush, Good, HSG A
	6,361	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	52,646	30	Weighted Average
	52,646		100.00% Pervious Area

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

Summary for Subcatchment S6: SUBCAT S6

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	68,947	30	Brush, Good, HSG A
	2,803	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,750	30	Weighted Average
	71,750		100.00% Pervious Area

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

Summary for Subcatchment S8: SUBCAT S8

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-YR Rainfall=2.96"

	Area (sf)	CN	Description
	100,530	30	Brush, Good, HSG A
	310,010	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
*	2,426	98	Proposed Building
	446,502	35	Weighted Average
	410,540		91.95% Pervious Area
	35,962		8.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.4000	0.22		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
5.0	353	0.0560	1.18		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
4.7	1,850	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
13.6	2,253	Total			

Summary for Reach ER4: EX REACH 4

Inflow Area = 436,607 sf, 5.39% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'

‡

Summary for Reach ER5: EX REACH 5

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

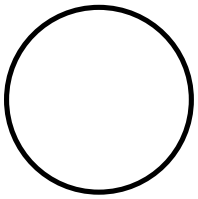
Summary for Reach RG: REACH G

Inflow Area = 203,535 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 6.43 cfs

12.0" Round Pipe
n= 0.012
Length= 180.0' Slope= 0.0278 '/'
Inlet Invert= 155.00', Outlet Invert= 150.00'



Summary for Reach W1: WETLAND REACH 1

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 177.62 cfs

25.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 420.0' Slope= 0.0190 '/'
Inlet Invert= 152.00', Outlet Invert= 144.00'

‡

Summary for Reach W2: WETLAND REACH 2

Inflow Area = 339,955 sf, 5.18% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 117.48 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 480.0' Slope= 0.0083 '/'
Inlet Invert= 144.00', Outlet Invert= 140.00'

‡

Summary for Pond CA1: CB-A1

Inflow Area = 10,307 sf, 82.48% Impervious, Inflow Depth > 1.90" for 2-YR event
Inflow = 0.47 cfs @ 12.09 hrs, Volume= 1,632 cf
Outflow = 0.47 cfs @ 12.09 hrs, Volume= 1,632 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.47 cfs @ 12.09 hrs, Volume= 1,632 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.08' @ 12.09 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.74'	**12.0" Round Culvert** L= 83.0' Ke= 0.500 Inlet / Outlet Invert= 155.74' / 154.91' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.09 hrs HW=156.08' TW=155.23' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.46 cfs @ 1.98 fps)

Summary for Pond CA2: CB-A2

Inflow Area = 5,412 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 1,230 cf
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 1,230 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.35 cfs @ 12.09 hrs, Volume= 1,230 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.54' @ 12.09 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.25'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 156.25' / 155.84' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=156.54' TW=156.08' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.33 cfs @ 2.68 fps)

Summary for Pond CA3: CB-A3

Inflow Area = 37,673 sf, 89.92% Impervious, Inflow Depth > 2.14" for 2-YR event
Inflow = 2.07 cfs @ 12.09 hrs, Volume= 6,714 cf
Outflow = 2.07 cfs @ 12.09 hrs, Volume= 6,714 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.07 cfs @ 12.09 hrs, Volume= 6,714 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.65' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.93'	**18.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 153.93' / 153.09' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.03 cfs @ 12.09 hrs HW=154.64' TW=153.40' (Dynamic Tailwater)
1=Culvert (Barrel Controls 2.03 cfs @ 3.58 fps)

Summary for Pond CA4: CB-A4

Inflow Area = 6,616 sf, 89.62% Impervious, Inflow Depth > 2.12" for 2-YR event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 1,170 cf
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 1,170 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 1,170 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.23' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.93'	**12.0" Round Culvert** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 154.93' / 154.43' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=155.22' TW=154.64' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.35 cfs @ 1.84 fps)

Summary for Pond CC1: CB-C1

Inflow Area = 6,254 sf, 34.70% Impervious, Inflow Depth > 0.29" for 2-YR event
Inflow = 0.02 cfs @ 12.27 hrs, Volume= 151 cf
Outflow = 0.02 cfs @ 12.27 hrs, Volume= 151 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.02 cfs @ 12.27 hrs, Volume= 151 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.34' @ 12.17 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.09' S= 0.0048 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.02 cfs @ 12.27 hrs HW=159.34' TW=159.17' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.02 cfs @ 0.97 fps)

Summary for Pond CC10: CB-C10

Inflow Area = 177,794 sf, 87.97% Impervious, Inflow Depth > 2.07" for 2-YR event
Inflow = 9.27 cfs @ 12.09 hrs, Volume= 30,723 cf
Outflow = 9.27 cfs @ 12.09 hrs, Volume= 30,723 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.27 cfs @ 12.09 hrs, Volume= 30,723 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.92' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.48'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 151.48' / 150.63' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=8.54 cfs @ 12.09 hrs HW=152.89' TW=152.01' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 8.54 cfs @ 4.32 fps)

Summary for Pond CC11: CB-C11

Inflow Area = 6,044 sf, 71.33% Impervious, Inflow Depth > 1.28" for 2-YR event
Inflow = 0.20 cfs @ 12.10 hrs, Volume= 645 cf
Outflow = 0.20 cfs @ 12.10 hrs, Volume= 645 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.10 hrs, Volume= 645 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.97' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.15' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.10 hrs HW=155.97' TW=148.80' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.20 cfs @ 1.59 fps)

Summary for Pond CC12: CB-C12

Inflow Area = 107,687 sf, 82.94% Impervious, Inflow Depth > 1.85" for 2-YR event
Inflow = 5.05 cfs @ 12.09 hrs, Volume= 16,642 cf
Outflow = 5.05 cfs @ 12.09 hrs, Volume= 16,642 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.05 cfs @ 12.09 hrs, Volume= 16,642 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.80' @ 12.09 hrs
Flood Elev= 158.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.70'	**24.0" Round Culvert** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 147.70' / 147.35' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.94 cfs @ 12.09 hrs HW=148.79' TW=147.55' (Dynamic Tailwater)
1=Culvert (Barrel Controls 4.94 cfs @ 4.09 fps)

Summary for Pond CC13: CB-C13

Inflow Area = 3,872 sf, 77.27% Impervious, Inflow Depth > 1.55" for 2-YR event
Inflow = 0.16 cfs @ 12.09 hrs, Volume= 501 cf
Outflow = 0.16 cfs @ 12.09 hrs, Volume= 501 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.09 hrs, Volume= 501 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.94' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.09 hrs HW=155.94' TW=149.68' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.16 cfs @ 1.49 fps)

Summary for Pond CC14: CB-C14

Inflow Area = 93,302 sf, 84.26% Impervious, Inflow Depth > 1.92" for 2-YR event
Inflow = 4.52 cfs @ 12.09 hrs, Volume= 14,966 cf
Outflow = 4.52 cfs @ 12.09 hrs, Volume= 14,966 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.52 cfs @ 12.09 hrs, Volume= 14,966 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.69' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	148.66'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 148.66' / 147.80' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.23 cfs @ 12.09 hrs HW=149.68' TW=148.79' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 4.23 cfs @ 3.85 fps)

Summary for Pond CC15: CB-C15

Inflow Area = 3,872 sf, 81.40% Impervious, Inflow Depth > 1.70" for 2-YR event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 549 cf
Outflow = 0.17 cfs @ 12.09 hrs, Volume= 549 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.09 hrs, Volume= 549 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.95' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=155.95' TW=150.58' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.17 cfs @ 1.52 fps)

Summary for Pond CC16: CB-C16

Inflow Area = 86,438 sf, 84.03% Impervious, Inflow Depth > 1.91" for 2-YR event
Inflow = 4.17 cfs @ 12.09 hrs, Volume= 13,785 cf
Outflow = 4.17 cfs @ 12.09 hrs, Volume= 13,785 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.17 cfs @ 12.09 hrs, Volume= 13,785 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.59' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.62'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 149.62' / 148.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.87 cfs @ 12.09 hrs HW=150.58' TW=149.68' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.87 cfs @ 3.81 fps)

Summary for Pond CC17: CB-C17

Inflow Area = 151,042 sf, 86.68% Impervious, Inflow Depth > 2.01" for 2-YR event
Inflow = 7.66 cfs @ 12.09 hrs, Volume= 25,353 cf
Outflow = 7.66 cfs @ 12.09 hrs, Volume= 25,353 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.66 cfs @ 12.09 hrs, Volume= 25,353 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.70' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.40'	**30.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 152.40' / 151.58' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=6.84 cfs @ 12.09 hrs HW=153.67' TW=152.89' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.84 cfs @ 3.97 fps)

Summary for Pond CC18: CB-C18

Inflow Area = 125,536 sf, 84.98% Impervious, Inflow Depth > 1.93" for 2-YR event
Inflow = 6.12 cfs @ 12.09 hrs, Volume= 20,233 cf
Outflow = 6.12 cfs @ 12.09 hrs, Volume= 20,233 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.12 cfs @ 12.09 hrs, Volume= 20,233 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.48' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.34'	**30.0" Round Culvert** L= 168.0' Ke= 0.500 Inlet / Outlet Invert= 153.34' / 152.50' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=5.52 cfs @ 12.09 hrs HW=154.46' TW=153.67' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 5.52 cfs @ 3.83 fps)

Summary for Pond CC19: CB-C19

Inflow Area = 98,449 sf, 81.01% Impervious, Inflow Depth > 1.72" for 2-YR event
Inflow = 4.38 cfs @ 12.09 hrs, Volume= 14,078 cf
Outflow = 4.38 cfs @ 12.09 hrs, Volume= 14,078 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.38 cfs @ 12.09 hrs, Volume= 14,078 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.72' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.75'	**24.0" Round Culvert** L= 181.0' Ke= 0.500 Inlet / Outlet Invert= 154.75' / 153.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.29 cfs @ 12.09 hrs HW=155.71' TW=154.46' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 4.29 cfs @ 4.23 fps)

Summary for Pond CC2: CB-C2

Inflow Area = 10,503 sf, 53.18% Impervious, Inflow Depth > 0.83" for 2-YR event
Inflow = 0.20 cfs @ 12.10 hrs, Volume= 727 cf
Outflow = 0.20 cfs @ 12.10 hrs, Volume= 727 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.10 hrs, Volume= 727 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.24' @ 12.10 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.99'	**12.0" Round Culvert** L= 56.0' Ke= 0.500 Inlet / Outlet Invert= 158.99' / 158.71' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.10 hrs HW=159.24' TW=158.91' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.19 cfs @ 1.90 fps)

Summary for Pond CC20: CB-C20

Inflow Area = 79,574 sf, 83.55% Impervious, Inflow Depth > 1.89" for 2-YR event
Inflow = 3.81 cfs @ 12.09 hrs, Volume= 12,556 cf
Outflow = 3.81 cfs @ 12.09 hrs, Volume= 12,556 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.81 cfs @ 12.09 hrs, Volume= 12,556 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.49' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.57'	**24.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 150.57' / 149.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.55 cfs @ 12.09 hrs HW=151.48' TW=150.58' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.55 cfs @ 3.76 fps)

Summary for Pond CC21: CB-C21

Inflow Area = 3,610 sf, 79.03% Impervious, Inflow Depth > 1.63" for 2-YR event
Inflow = 0.16 cfs @ 12.09 hrs, Volume= 489 cf
Outflow = 0.16 cfs @ 12.09 hrs, Volume= 489 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.09 hrs, Volume= 489 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.94' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=155.94' TW=151.48' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.15 cfs @ 1.48 fps)

Summary for Pond CC22: CB-C22

Inflow Area = 3,940 sf, 77.16% Impervious, Inflow Depth > 1.55" for 2-YR event
Inflow = 0.16 cfs @ 12.09 hrs, Volume= 510 cf
Outflow = 0.16 cfs @ 12.09 hrs, Volume= 510 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.09 hrs, Volume= 510 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.94' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.09 hrs HW=155.94' TW=152.41' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.16 cfs @ 1.50 fps)

Summary for Pond CC23: CB-C23

Inflow Area = 72,272 sf, 83.88% Impervious, Inflow Depth > 1.92" for 2-YR event
Inflow = 3.49 cfs @ 12.09 hrs, Volume= 11,542 cf
Outflow = 3.49 cfs @ 12.09 hrs, Volume= 11,542 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.49 cfs @ 12.09 hrs, Volume= 11,542 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.41' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.54'	**24.0" Round Culvert** L= 173.0' Ke= 0.500 Inlet / Outlet Invert= 151.54' / 150.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.27 cfs @ 12.09 hrs HW=152.40' TW=151.48' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 3.27 cfs @ 3.72 fps)

Summary for Pond CC24: CB-C24

Inflow Area = 21,488 sf, 69.19% Impervious, Inflow Depth > 1.34" for 2-YR event
Inflow = 0.69 cfs @ 12.09 hrs, Volume= 2,407 cf
Outflow = 0.69 cfs @ 12.09 hrs, Volume= 2,407 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.69 cfs @ 12.09 hrs, Volume= 2,407 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.23' @ 12.09 hrs
Flood Elev= 159.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.81'	**12.0" Round Culvert** L= 42.0' Ke= 0.500 Inlet / Outlet Invert= 154.81' / 153.59' S= 0.0290 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=155.23' TW=153.41' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.68 cfs @ 2.20 fps)

Summary for Pond CC25: CB-C25

Inflow Area = 64,908 sf, 83.95% Impervious, Inflow Depth > 1.93" for 2-YR event
Inflow = 3.14 cfs @ 12.09 hrs, Volume= 10,427 cf
Outflow = 3.14 cfs @ 12.09 hrs, Volume= 10,427 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.14 cfs @ 12.09 hrs, Volume= 10,427 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.41' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.59'	**24.0" Round Culvert** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 152.59' / 151.64' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.96 cfs @ 12.09 hrs HW=153.40' TW=152.40' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.96 cfs @ 3.66 fps)

Summary for Pond CC26: CB-C26

Inflow Area = 10,538 sf, 83.28% Impervious, Inflow Depth > 1.89" for 2-YR event
Inflow = 0.49 cfs @ 12.09 hrs, Volume= 1,661 cf
Outflow = 0.49 cfs @ 12.09 hrs, Volume= 1,661 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.09 hrs, Volume= 1,661 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.51' @ 12.09 hrs
Flood Elev= 163.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.16'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 158.16' / 157.24' S= 0.0224 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=158.51' TW=157.47' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.48 cfs @ 2.00 fps)

Summary for Pond CC27: CB-C27

Inflow Area = 46,327 sf, 80.53% Impervious, Inflow Depth > 1.69" for 2-YR event
Inflow = 2.02 cfs @ 12.09 hrs, Volume= 6,517 cf
Outflow = 2.02 cfs @ 12.09 hrs, Volume= 6,517 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.02 cfs @ 12.09 hrs, Volume= 6,517 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.18' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.45'	**18.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 157.45' / 156.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.92 cfs @ 12.09 hrs HW=158.17' TW=157.47' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 1.92 cfs @ 3.33 fps)

Summary for Pond CC28: CB-C28

Inflow Area = 38,084 sf, 78.73% Impervious, Inflow Depth > 1.61" for 2-YR event
Inflow = 1.58 cfs @ 12.09 hrs, Volume= 5,121 cf
Outflow = 1.58 cfs @ 12.09 hrs, Volume= 5,121 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.58 cfs @ 12.09 hrs, Volume= 5,121 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.88' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.20'	**15.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 158.20' / 157.70' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.55 cfs @ 12.09 hrs HW=158.88' TW=158.17' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 1.55 cfs @ 3.31 fps)

Summary for Pond CC29: CB-C29

Inflow Area = 8,005 sf, 80.45% Impervious, Inflow Depth > 1.79" for 2-YR event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 1,193 cf
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 1,193 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.35 cfs @ 12.09 hrs, Volume= 1,193 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.09' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.80'	**12.0" Round Culvert** L= 77.0' Ke= 0.500 Inlet / Outlet Invert= 159.80' / 158.26' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=160.09' TW=158.51' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.34 cfs @ 1.83 fps)

Summary for Pond CC3: CB-C3

Inflow Area = 11,812 sf, 56.98% Impervious, Inflow Depth > 0.96" for 2-YR event
Inflow = 0.27 cfs @ 12.10 hrs, Volume= 948 cf
Outflow = 0.27 cfs @ 12.10 hrs, Volume= 948 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.10 hrs, Volume= 948 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.91' @ 12.11 hrs
Flood Elev= 163.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.61'	**12.0" Round Culvert** L= 75.0' Ke= 0.500 Inlet / Outlet Invert= 158.61' / 158.24' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.10 hrs HW=158.91' TW=158.56' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.25 cfs @ 1.91 fps)

Summary for Pond CC30: CB-C30

Inflow Area = 3,220 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.21 cfs @ 12.09 hrs, Volume= 732 cf
Outflow = 0.21 cfs @ 12.09 hrs, Volume= 732 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.21 cfs @ 12.09 hrs, Volume= 732 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.64' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.42'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 160.42' / 159.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=160.64' TW=160.09' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.20 cfs @ 1.59 fps)

Summary for Pond CC31: CB-C31

Inflow Area = 28,995 sf, 76.60% Impervious, Inflow Depth > 1.54" for 2-YR event
Inflow = 1.14 cfs @ 12.09 hrs, Volume= 3,711 cf
Outflow = 1.14 cfs @ 12.09 hrs, Volume= 3,711 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.09 hrs, Volume= 3,711 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.55' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.96'	**15.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 158.96' / 158.30' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.08 cfs @ 12.09 hrs HW=159.54' TW=158.88' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 1.08 cfs @ 2.85 fps)

Summary for Pond CC32: CB-C32

Inflow Area = 10,841 sf, 58.84% Impervious, Inflow Depth > 0.78" for 2-YR event
Inflow = 0.20 cfs @ 12.10 hrs, Volume= 703 cf
Outflow = 0.20 cfs @ 12.10 hrs, Volume= 703 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.10 hrs, Volume= 703 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.52' @ 12.10 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.75' S= 0.0292 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.10 hrs HW=161.51' TW=160.11' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.20 cfs @ 1.58 fps)

Summary for Pond CC33: CB-C33

Inflow Area = 6,131 sf, 52.05% Impervious, Inflow Depth > 0.49" for 2-YR event
Inflow = 0.06 cfs @ 12.12 hrs, Volume= 249 cf
Outflow = 0.06 cfs @ 12.12 hrs, Volume= 249 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.12 hrs, Volume= 249 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 162.26' @ 12.12 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	162.15'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 162.15' / 161.40' S= 0.0288 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.06 cfs @ 12.12 hrs HW=162.26' TW=161.51' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.06 cfs @ 1.14 fps)

Summary for Pond CC34: CB-C34

Inflow Area = 19,633 sf, 71.85% Impervious, Inflow Depth > 1.34" for 2-YR event
Inflow = 0.66 cfs @ 12.09 hrs, Volume= 2,192 cf
Outflow = 0.66 cfs @ 12.09 hrs, Volume= 2,192 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.66 cfs @ 12.09 hrs, Volume= 2,192 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.11' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.65'	**12.0" Round Culvert** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 159.65' / 159.21' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.65 cfs @ 12.09 hrs HW=160.11' TW=159.54' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.65 cfs @ 2.71 fps)

Summary for Pond CC35: CB-C35

Inflow Area = 18,828 sf, 50.64% Impervious, Inflow Depth > 0.63" for 2-YR event
Inflow = 0.27 cfs @ 12.10 hrs, Volume= 990 cf
Outflow = 0.27 cfs @ 12.10 hrs, Volume= 990 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.10 hrs, Volume= 990 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.23' @ 12.10 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.98'	**12.0" Round Culvert** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 158.98' / 156.25' S= 0.0303 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.10 hrs HW=159.23' TW=156.35' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.27 cfs @ 1.71 fps)

Summary for Pond CC36: CB-C36

Inflow Area = 4,686 sf, 33.91% Impervious, Inflow Depth > 0.14" for 2-YR event
Inflow = 0.00 cfs @ 12.44 hrs, Volume= 55 cf
Outflow = 0.00 cfs @ 12.44 hrs, Volume= 55 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 12.44 hrs, Volume= 55 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.18' @ 12.44 hrs
Flood Elev= 163.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.15'	**12.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 160.15' / 159.08' S= 0.0267 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 12.44 hrs HW=160.18' TW=159.14' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.00 cfs @ 0.58 fps)

Summary for Pond CC37: CB-C37

Inflow Area = 10,601 sf, 53.01% Impervious, Inflow Depth > 0.69" for 2-YR event
Inflow = 0.17 cfs @ 12.11 hrs, Volume= 611 cf
Outflow = 0.17 cfs @ 12.11 hrs, Volume= 611 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.11 hrs, Volume= 611 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.48' @ 12.11 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 34.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.08' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.11 hrs HW=159.48' TW=159.23' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 0.17 cfs @ 1.83 fps)

Summary for Pond CC38: CB-C38

Inflow Area = 6,400 sf, 79.30% Impervious, Inflow Depth > 1.63" for 2-YR event
Inflow = 0.28 cfs @ 12.09 hrs, Volume= 868 cf
Outflow = 0.28 cfs @ 12.09 hrs, Volume= 868 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.09 hrs, Volume= 868 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.56' @ 12.09 hrs
Flood Elev= 164.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 120.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.15' S= 0.0179 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=161.55' TW=159.40' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.27 cfs @ 1.72 fps)

Summary for Pond CC4: CB-C4

Inflow Area = 5,937 sf, 33.28% Impervious, Inflow Depth > 0.29" for 2-YR event
Inflow = 0.02 cfs @ 12.27 hrs, Volume= 143 cf
Outflow = 0.02 cfs @ 12.27 hrs, Volume= 143 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.02 cfs @ 12.27 hrs, Volume= 143 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.57' @ 12.15 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.50'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.50' / 157.24' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.02 cfs @ 12.27 hrs HW=157.57' TW=157.27' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.02 cfs @ 1.23 fps)

Summary for Pond CC5: CB-C5

Inflow Area = 5,125 sf, 32.45% Impervious, Inflow Depth > 0.26" for 2-YR event
Inflow = 0.01 cfs @ 12.31 hrs, Volume= 111 cf
Outflow = 0.01 cfs @ 12.31 hrs, Volume= 111 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.01 cfs @ 12.31 hrs, Volume= 111 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.51' @ 12.31 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.45'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 159.45' / 159.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.01 cfs @ 12.31 hrs HW=159.51' TW=156.60' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.01 cfs @ 1.13 fps)

Summary for Pond CC6: CB-C6

Inflow Area = 15,635 sf, 49.40% Impervious, Inflow Depth > 0.82" for 2-YR event
Inflow = 0.26 cfs @ 12.10 hrs, Volume= 1,067 cf
Outflow = 0.26 cfs @ 12.10 hrs, Volume= 1,067 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.10 hrs, Volume= 1,067 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.67' @ 12.10 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.42'	**12.0" Round Culvert** L= 73.0' Ke= 0.500 Inlet / Outlet Invert= 156.42' / 155.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.10 hrs HW=156.67' TW=147.56' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.26 cfs @ 1.70 fps)

Summary for Pond CC7: CB-C7

Inflow Area = 8,406 sf, 47.06% Impervious, Inflow Depth > 0.68" for 2-YR event
Inflow = 0.12 cfs @ 12.10 hrs, Volume= 478 cf
Outflow = 0.12 cfs @ 12.10 hrs, Volume= 478 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.10 hrs, Volume= 478 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.31' @ 12.11 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.14'	**12.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 157.14' / 156.52' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.10 hrs HW=157.31' TW=156.67' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.12 cfs @ 2.10 fps)

Summary for Pond CC8: CB-C8

Inflow Area = 236,335 sf, 89.20% Impervious, Inflow Depth > 2.14" for 2-YR event
Inflow = 12.67 cfs @ 12.09 hrs, Volume= 42,185 cf
Outflow = 12.67 cfs @ 12.09 hrs, Volume= 42,185 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.67 cfs @ 12.09 hrs, Volume= 42,185 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.74' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.18'	**36.0" Round Culvert** L= 85.0' Ke= 0.500 Inlet / Outlet Invert= 149.18' / 148.75' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=12.37 cfs @ 12.09 hrs HW=150.72' TW=147.54' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 12.37 cfs @ 4.92 fps)

Summary for Pond CC9: CB-C9

Inflow Area = 204,546 sf, 89.45% Impervious, Inflow Depth > 2.16" for 2-YR event
Inflow = 10.99 cfs @ 12.09 hrs, Volume= 36,801 cf
Outflow = 10.99 cfs @ 12.09 hrs, Volume= 36,801 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.99 cfs @ 12.09 hrs, Volume= 36,801 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.02' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.53'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 150.53' / 149.68' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=10.72 cfs @ 12.09 hrs HW=152.00' TW=150.72' (Dynamic Tailwater)
1=Culvert (Barrel Controls 10.72 cfs @ 5.12 fps)

Summary for Pond CD1: CB-D1

Inflow Area = 6,306 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 1,433 cf
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 1,433 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 1,433 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.40' @ 12.09 hrs
Flood Elev= 162.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 144.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 158.33' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=159.40' TW=158.57' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.39 cfs @ 2.41 fps)

Summary for Pond CD10: CB-D10

Inflow Area = 8,279 sf, 85.05% Impervious, Inflow Depth > 1.86" for 2-YR event
Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,285 cf
Outflow = 0.40 cfs @ 12.09 hrs, Volume= 1,285 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.09 hrs, Volume= 1,285 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.07' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.12' S= 0.0300 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=159.06' TW=155.08' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.40 cfs @ 1.90 fps)

Summary for Pond CD11: CB-D11

Inflow Area = 153,819 sf, 71.58% Impervious, Inflow Depth > 1.38" for 2-YR event
Inflow = 5.39 cfs @ 12.09 hrs, Volume= 17,674 cf
Outflow = 5.39 cfs @ 12.09 hrs, Volume= 17,674 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.39 cfs @ 12.09 hrs, Volume= 17,674 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.52' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.52'	**24.0" Round Culvert** L= 264.0' Ke= 0.500 Inlet / Outlet Invert= 153.52' / 150.00' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.31 cfs @ 12.09 hrs HW=154.52' TW=142.57' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 5.31 cfs @ 3.40 fps)

Summary for Pond CD12: CB-D12

Inflow Area = 20,162 sf, 70.06% Impervious, Inflow Depth > 1.41" for 2-YR event
Inflow = 0.71 cfs @ 12.09 hrs, Volume= 2,362 cf
Outflow = 0.71 cfs @ 12.09 hrs, Volume= 2,362 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.09 hrs, Volume= 2,362 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.57' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.14'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.14' / 154.52' S= 0.0299 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=158.56' TW=154.51' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.69 cfs @ 2.21 fps)

Summary for Pond CD2: CB-D2

Inflow Area = 7,996 sf, 96.65% Impervious, Inflow Depth > 2.54" for 2-YR event
Inflow = 0.49 cfs @ 12.09 hrs, Volume= 1,695 cf
Outflow = 0.49 cfs @ 12.09 hrs, Volume= 1,695 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.09 hrs, Volume= 1,695 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.58' @ 12.09 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.23'	**12.0" Round Culvert** L= 91.0' Ke= 0.500 Inlet / Outlet Invert= 158.23' / 156.51' S= 0.0189 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=158.57' TW=156.61' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.48 cfs @ 1.99 fps)

Summary for Pond CD3: CB-D3

Inflow Area = 34,598 sf, 51.01% Impervious, Inflow Depth > 0.65" for 2-YR event
Inflow = 0.50 cfs @ 12.11 hrs, Volume= 1,867 cf
Outflow = 0.50 cfs @ 12.11 hrs, Volume= 1,867 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.11 hrs, Volume= 1,867 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.16' @ 12.11 hrs
Flood Elev= 160.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**12.0" Round Culvert** L= 48.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.51' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.11 hrs HW=157.15' TW=156.61' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.49 cfs @ 2.46 fps)

Summary for Pond CD4: CB-D4

Inflow Area = 59,225 sf, 62.56% Impervious, Inflow Depth > 1.08" for 2-YR event
Inflow = 1.53 cfs @ 12.10 hrs, Volume= 5,313 cf
Outflow = 1.53 cfs @ 12.10 hrs, Volume= 5,313 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.53 cfs @ 12.10 hrs, Volume= 5,313 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.62' @ 12.10 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.01'	**18.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 156.01' / 155.19' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.52 cfs @ 12.10 hrs HW=156.62' TW=155.51' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 1.52 cfs @ 3.32 fps)

Summary for Pond CD5: CB-D5

Inflow Area = 12,974 sf, 69.53% Impervious, Inflow Depth > 1.24" for 2-YR event
Inflow = 0.42 cfs @ 12.10 hrs, Volume= 1,341 cf
Outflow = 0.42 cfs @ 12.10 hrs, Volume= 1,341 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.10 hrs, Volume= 1,341 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.07' @ 12.10 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.51' S= 0.0477 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.10 hrs HW=158.07' TW=156.62' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.41 cfs @ 1.92 fps)

Summary for Pond CD6: CB-D6

Inflow Area = 6,633 sf, 75.95% Impervious, Inflow Depth > 1.48" for 2-YR event
Inflow = 0.26 cfs @ 12.09 hrs, Volume= 819 cf
Outflow = 0.26 cfs @ 12.09 hrs, Volume= 819 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.09 hrs, Volume= 819 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.43' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.18'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 158.18' / 157.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=158.43' TW=158.07' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.25 cfs @ 2.42 fps)

Summary for Pond CD7: CB-D7

Inflow Area = 84,005 sf, 68.35% Impervious, Inflow Depth > 1.28" for 2-YR event
Inflow = 2.67 cfs @ 12.10 hrs, Volume= 8,932 cf
Outflow = 2.67 cfs @ 12.10 hrs, Volume= 8,932 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.67 cfs @ 12.10 hrs, Volume= 8,932 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.51' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.69'	**24.0" Round Culvert** L= 93.0' Ke= 0.500 Inlet / Outlet Invert= 154.69' / 154.22' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.35 cfs @ 12.10 hrs HW=155.50' TW=155.09' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.35 cfs @ 2.91 fps)

Summary for Pond CD8: CB-D8

Inflow Area = 7,740 sf, 84.12% Impervious, Inflow Depth > 1.86" for 2-YR event
Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,201 cf
Outflow = 0.38 cfs @ 12.09 hrs, Volume= 1,201 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.38 cfs @ 12.09 hrs, Volume= 1,201 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.05' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.69' S= 0.0253 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=159.05' TW=155.49' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.37 cfs @ 1.87 fps)

Summary for Pond CD9: CB-D9

Inflow Area = 111,549 sf, 71.82% Impervious, Inflow Depth > 1.39" for 2-YR event
Inflow = 3.94 cfs @ 12.09 hrs, Volume= 12,950 cf
Outflow = 3.94 cfs @ 12.09 hrs, Volume= 12,950 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.94 cfs @ 12.09 hrs, Volume= 12,950 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.10' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.12'	**24.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 154.12' / 153.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.65 cfs @ 12.09 hrs HW=155.09' TW=154.52' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 3.65 cfs @ 3.54 fps)

Summary for Pond CE1: CB-E1

Inflow Area = 5,639 sf, 95.66% Impervious, Inflow Depth > 2.41" for 2-YR event
Inflow = 0.34 cfs @ 12.09 hrs, Volume= 1,132 cf
Outflow = 0.34 cfs @ 12.09 hrs, Volume= 1,132 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.09 hrs, Volume= 1,132 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.14' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.85'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.85' / 154.17' S= 0.0661 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=161.13' TW=154.12' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.33 cfs @ 1.81 fps)

Summary for Pond CE10: CB-E10

Inflow Area = 263,128 sf, 98.37% Impervious, Inflow Depth > 2.65" for 2-YR event
Inflow = 16.46 cfs @ 12.09 hrs, Volume= 58,127 cf
Outflow = 16.46 cfs @ 12.09 hrs, Volume= 58,127 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.46 cfs @ 12.09 hrs, Volume= 58,127 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.29' @ 12.10 hrs
Flood Elev= 159.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.52'	**42.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 150.52' / 150.31' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=14.53 cfs @ 12.09 hrs HW=152.28' TW=151.74' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 14.53 cfs @ 4.39 fps)

Summary for Pond CE11: CB-E11

Inflow Area = 187,424 sf, 88.30% Impervious, Inflow Depth > 2.13" for 2-YR event
Inflow = 9.91 cfs @ 12.09 hrs, Volume= 33,311 cf
Outflow = 9.91 cfs @ 12.09 hrs, Volume= 33,311 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.91 cfs @ 12.09 hrs, Volume= 33,311 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.40' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.93'	**30.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 150.93' / 150.41' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=8.28 cfs @ 12.09 hrs HW=152.37' TW=151.75' (Dynamic Tailwater)
1=Culvert (Outlet Controls 8.28 cfs @ 4.06 fps)

Summary for Pond CE12: CB-E12

Inflow Area = 164,049 sf, 87.49% Impervious, Inflow Depth > 2.11" for 2-YR event
Inflow = 8.54 cfs @ 12.09 hrs, Volume= 28,811 cf
Outflow = 8.54 cfs @ 12.09 hrs, Volume= 28,811 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.54 cfs @ 12.09 hrs, Volume= 28,811 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.07' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.66'	**30.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 151.66' / 151.03' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.66 cfs @ 12.09 hrs HW=153.04' TW=152.37' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.66 cfs @ 3.99 fps)

Summary for Pond CE13: CB-E13

Inflow Area = 145,216 sf, 86.50% Impervious, Inflow Depth > 2.07" for 2-YR event
Inflow = 7.40 cfs @ 12.09 hrs, Volume= 25,031 cf
Outflow = 7.40 cfs @ 12.09 hrs, Volume= 25,031 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.40 cfs @ 12.09 hrs, Volume= 25,031 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.84' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.57'	**30.0" Round Culvert** L= 161.0' Ke= 0.500 Inlet / Outlet Invert= 152.57' / 151.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=6.59 cfs @ 12.09 hrs HW=153.81' TW=153.04' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 6.59 cfs @ 3.95 fps)

Summary for Pond CE14: CB-E14

Inflow Area = 109,749 sf, 83.89% Impervious, Inflow Depth > 1.96" for 2-YR event
Inflow = 5.27 cfs @ 12.09 hrs, Volume= 17,912 cf
Outflow = 5.27 cfs @ 12.09 hrs, Volume= 17,912 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.27 cfs @ 12.09 hrs, Volume= 17,912 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.93' @ 12.09 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.85'	**24.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 153.85' / 153.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.14 cfs @ 12.09 hrs HW=154.92' TW=153.81' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 5.14 cfs @ 4.38 fps)

Summary for Pond CE15: CB-E15

Inflow Area = 81,941 sf, 79.06% Impervious, Inflow Depth > 1.74" for 2-YR event
Inflow = 3.51 cfs @ 12.09 hrs, Volume= 11,848 cf
Outflow = 3.51 cfs @ 12.09 hrs, Volume= 11,848 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.51 cfs @ 12.09 hrs, Volume= 11,848 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.56' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.62'	**24.0" Round Culvert** L= 134.0' Ke= 0.500 Inlet / Outlet Invert= 154.62' / 153.95' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.25 cfs @ 12.09 hrs HW=155.54' TW=154.92' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 3.25 cfs @ 3.37 fps)

Summary for Pond CE16: CB-E16

Inflow Area = 49,549 sf, 66.59% Impervious, Inflow Depth > 1.16" for 2-YR event
Inflow = 1.47 cfs @ 12.10 hrs, Volume= 4,784 cf
Outflow = 1.47 cfs @ 12.10 hrs, Volume= 4,784 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.47 cfs @ 12.10 hrs, Volume= 4,784 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.36' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**18.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.12' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.45 cfs @ 12.10 hrs HW=156.35' TW=155.55' (Dynamic Tailwater)
1=Culvert (Barrel Controls 1.45 cfs @ 3.24 fps)

Summary for Pond CE17: CB-E17

Inflow Area = 120,518 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.49' @ 0.00 hrs
Flood Elev= 163.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.49'	**12.0" Round Culvert** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 161.49' / 160.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=161.49' TW=160.75' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CE18: CB-E18

Inflow Area = 11,752 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.59' @ 12.19 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.50'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 156.50' / 156.25' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.50' TW=155.97' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CE19: CB-E19

Inflow Area = 75,753 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.30' @ 12.18 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.25'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 157.25' / 157.00' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=157.25' TW=156.75' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CE2: CB-E2

Inflow Area = 127,264 sf, 5.11% Impervious, Inflow Depth > 0.13" for 2-YR event
Inflow = 0.42 cfs @ 12.09 hrs, Volume= 1,412 cf
Outflow = 0.42 cfs @ 12.09 hrs, Volume= 1,412 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.09 hrs, Volume= 1,412 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.07' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.75'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.75' / 154.57' S= 0.0612 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=161.07' TW=154.49' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.41 cfs @ 1.91 fps)

Summary for Pond CE3: CB-E3

Inflow Area = 296,823 sf, 25.34% Impervious, Inflow Depth > 0.57" for 2-YR event
Inflow = 4.35 cfs @ 12.09 hrs, Volume= 14,190 cf
Outflow = 4.35 cfs @ 12.09 hrs, Volume= 14,190 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.35 cfs @ 12.09 hrs, Volume= 14,190 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.14' @ 12.09 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.17'	**24.0" Round Culvert** L= 178.0' Ke= 0.500 Inlet / Outlet Invert= 153.17' / 152.28' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=154.12' TW=151.76' (Dynamic Tailwater)
1=Culvert (Barrel Controls 4.26 cfs @ 4.21 fps)

Summary for Pond CE4: CB-E4

Inflow Area = 280,987 sf, 21.47% Impervious, Inflow Depth > 0.47" for 2-YR event
Inflow = 3.42 cfs @ 12.09 hrs, Volume= 11,095 cf
Outflow = 3.42 cfs @ 12.09 hrs, Volume= 11,095 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 12.09 hrs, Volume= 11,095 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.52' @ 12.11 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.57'	**24.0" Round Culvert** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 153.57' / 153.27' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.07 cfs @ 12.09 hrs HW=154.50' TW=154.13' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.07 cfs @ 3.16 fps)

Summary for Pond CE5: CB-E5

Inflow Area = 142,645 sf, 30.88% Impervious, Inflow Depth > 0.66" for 2-YR event
Inflow = 2.41 cfs @ 12.09 hrs, Volume= 7,807 cf
Outflow = 2.41 cfs @ 12.09 hrs, Volume= 7,807 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.41 cfs @ 12.09 hrs, Volume= 7,807 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.26' @ 12.09 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.45'	**18.0" Round Culvert** L= 76.0' Ke= 0.500 Inlet / Outlet Invert= 154.45' / 154.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.37 cfs @ 12.09 hrs HW=155.25' TW=154.50' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 2.37 cfs @ 3.56 fps)

Summary for Pond CE6: CB-E6

Inflow Area = 132,905 sf, 28.23% Impervious, Inflow Depth > 0.62" for 2-YR event
Inflow = 2.12 cfs @ 12.09 hrs, Volume= 6,867 cf
Outflow = 2.12 cfs @ 12.09 hrs, Volume= 6,867 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.12 cfs @ 12.09 hrs, Volume= 6,867 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.01' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**18.0" Round Culvert** L= 140.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.55' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.00 cfs @ 12.09 hrs HW=156.00' TW=155.25' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 2.00 cfs @ 3.31 fps)

Summary for Pond CE7: CB-E7

Inflow Area = 119,690 sf, 23.92% Impervious, Inflow Depth > 0.56" for 2-YR event
Inflow = 1.73 cfs @ 12.09 hrs, Volume= 5,592 cf
Outflow = 1.73 cfs @ 12.09 hrs, Volume= 5,592 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.73 cfs @ 12.09 hrs, Volume= 5,592 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.69' @ 12.09 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.97'	**15.0" Round Culvert** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 155.97' / 155.50' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.69 cfs @ 12.09 hrs HW=156.68' TW=156.00' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 1.69 cfs @ 3.37 fps)

Summary for Pond CE8: CB-E8

Inflow Area = 98,838 sf, 20.60% Impervious, Inflow Depth > 0.48" for 2-YR event
Inflow = 1.21 cfs @ 12.09 hrs, Volume= 3,913 cf
Outflow = 1.21 cfs @ 12.09 hrs, Volume= 3,913 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.09 hrs, Volume= 3,913 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.36' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**15.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=157.35' TW=156.68' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.14 cfs @ 2.87 fps)

Summary for Pond CE9: CB-E9

Inflow Area = 10,388 sf, 85.30% Impervious, Inflow Depth > 1.93" for 2-YR event
Inflow = 0.52 cfs @ 12.09 hrs, Volume= 1,668 cf
Outflow = 0.52 cfs @ 12.09 hrs, Volume= 1,668 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.09 hrs, Volume= 1,668 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.41' @ 12.09 hrs
Flood Elev= 162.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 157.00' S= 0.0218 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.50 cfs @ 12.09 hrs HW=159.40' TW=157.35' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.50 cfs @ 2.03 fps)

Summary for Pond CS13: CB-S13

Inflow Area = 25,168 sf, 88.89% Impervious, Inflow Depth > 2.08" for 2-YR event
Inflow = 1.36 cfs @ 12.09 hrs, Volume= 4,362 cf
Outflow = 1.36 cfs @ 12.09 hrs, Volume= 4,362 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.36 cfs @ 12.09 hrs, Volume= 4,362 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.52' @ 12.09 hrs
Flood Elev= 158.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.90'	**15.0" Round Culvert** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 154.90' / 154.18' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=155.51' TW=154.64' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 1.32 cfs @ 3.23 fps)

Summary for Pond CS14: CB-S14

Inflow Area = 11,820 sf, 88.58% Impervious, Inflow Depth > 2.03" for 2-YR event
Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,002 cf
Outflow = 0.63 cfs @ 12.09 hrs, Volume= 2,002 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.63 cfs @ 12.09 hrs, Volume= 2,002 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.56' @ 12.09 hrs
Flood Elev= 159.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.16'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 156.16' / 155.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=156.55' TW=155.51' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.61 cfs @ 2.13 fps)

Summary for Pond DC1: DMH-C1

Inflow Area = 56,865 sf, 81.04% Impervious, Inflow Depth > 1.73" for 2-YR event
Inflow = 2.51 cfs @ 12.09 hrs, Volume= 8,178 cf
Outflow = 2.51 cfs @ 12.09 hrs, Volume= 8,178 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.51 cfs @ 12.09 hrs, Volume= 8,178 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.47' @ 12.09 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.74'	**18.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 156.74' / 155.25' S= 0.0096 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.46 cfs @ 12.09 hrs HW=157.47' TW=155.71' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 2.46 cfs @ 2.90 fps)

Summary for Pond DC10: DMH-C10

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf
Outflow = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.64' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.95'	**36.0" Round Culvert** L= 247.0' Ke= 0.500 Inlet / Outlet Invert= 149.95' / 148.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=15.76 cfs @ 12.09 hrs HW=151.61' TW=144.82' (Dynamic Tailwater)
1=Culvert (Barrel Controls 15.76 cfs @ 5.66 fps)

Summary for Pond DC11: DMH-C11

Inflow Area = 359,657 sf, 85.59% Impervious, Inflow Depth > 2.00" for 2-YR event
Inflow = 17.98 cfs @ 12.09 hrs, Volume= 59,894 cf
Outflow = 17.98 cfs @ 12.09 hrs, Volume= 59,894 cf, Atten= 0%, Lag= 0.0 min
Primary = 17.98 cfs @ 12.09 hrs, Volume= 59,894 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 147.57' @ 12.09 hrs
Flood Elev= 160.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.85'	**42.0" Round Culvert** L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 145.85' / 144.98' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=17.57 cfs @ 12.09 hrs HW=147.54' TW=144.83' (Dynamic Tailwater)
1=Culvert (Barrel Controls 17.57 cfs @ 5.57 fps)

Summary for Pond DC2: DMH-C2

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.11' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=158.11' TW=157.22' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.44 cfs @ 2.61 fps)

Summary for Pond DC3: DMH-C3

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf
Outflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.24' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.42 cfs @ 12.09 hrs HW=157.22' TW=156.32' (Dynamic Tailwater)
1=Culvert (Barrel Controls 2.42 cfs @ 3.70 fps)

Summary for Pond DC4: DMH-C4

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf
Outflow = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.34' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.10 cfs @ 12.09 hrs HW=156.32' TW=155.70' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.10 cfs @ 3.49 fps)

Summary for Pond DC5: DMH-C5

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf
Outflow = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.71' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=155.70' TW=154.76' (Dynamic Tailwater)
1=Culvert (Barrel Controls 6.36 cfs @ 4.51 fps)

Summary for Pond DC6: DMH-C6

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf
Outflow = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.80' @ 12.11 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.11 cfs @ 12.09 hrs HW=154.76' TW=154.21' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.11 cfs @ 3.70 fps)

Summary for Pond DC7: DMH-C7

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf
Outflow = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.25' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=9.08 cfs @ 12.09 hrs HW=154.21' TW=153.49' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 9.08 cfs @ 4.17 fps)

Summary for Pond DC8: DMH-C8

Inflow Area = 188,100 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 12.09 cfs @ 12.09 hrs, Volume= 42,741 cf
Outflow = 12.09 cfs @ 12.09 hrs, Volume= 42,741 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.09 cfs @ 12.09 hrs, Volume= 42,741 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.51' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.91'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 151.91' / 151.23' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.77 cfs @ 12.09 hrs HW=153.49' TW=152.41' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 11.77 cfs @ 5.14 fps)

Summary for Pond DC9: DMH-C9

Inflow Area = 219,600 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 14.12 cfs @ 12.09 hrs, Volume= 49,899 cf
Outflow = 14.12 cfs @ 12.09 hrs, Volume= 49,899 cf, Atten= 0%, Lag= 0.0 min
Primary = 14.12 cfs @ 12.09 hrs, Volume= 49,899 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.45' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.73'	**36.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 150.73' / 150.05' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=12.80 cfs @ 12.09 hrs HW=152.41' TW=151.61' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 12.80 cfs @ 4.54 fps)

Summary for Pond DD1: DMH-D1

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 1.46" for 2-YR event
Inflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf
Outflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.02' @ 12.27 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.04'	**30.0" Round Culvert** L= 273.0' Ke= 0.500 Inlet / Outlet Invert= 149.04' / 147.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=15.45 cfs @ 12.23 hrs HW=151.01' TW=149.62' (Dynamic Tailwater)
1=Culvert (Outlet Controls 15.45 cfs @ 5.13 fps)

Summary for Pond DD2: DMH-D2

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 1.46" for 2-YR event
Inflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf
Outflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.64' @ 12.27 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.57'	**30.0" Round Culvert** L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 147.57' / 146.66' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=15.44 cfs @ 12.23 hrs HW=149.62' TW=148.61' (Dynamic Tailwater)
1=Culvert (Outlet Controls 15.44 cfs @ 4.88 fps)

Summary for Pond DD3: DMH-D3

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 1.46" for 2-YR event
Inflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf
Outflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.62' @ 12.25 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	146.56'	**30.0" Round Culvert** L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 146.56' / 145.91' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=15.61 cfs @ 12.23 hrs HW=148.61' TW=147.71' (Dynamic Tailwater)
1=Culvert (Outlet Controls 15.61 cfs @ 4.93 fps)

Summary for Pond DD4: DMH-DD4

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 1.46" for 2-YR event
Inflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf
Outflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 147.71' @ 12.23 hrs
Flood Elev= 152.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.81'	**30.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 145.81' / 145.15' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=15.78 cfs @ 12.23 hrs HW=147.71' TW=142.99' (Dynamic Tailwater)
1=Culvert (Barrel Controls 15.78 cfs @ 5.47 fps)

Summary for Pond DE1: DMH-E1

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.11' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=158.11' TW=157.22' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.44 cfs @ 2.61 fps)

Summary for Pond DE2: DMH-E2

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf
Outflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.24' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.42 cfs @ 12.09 hrs HW=157.22' TW=156.32' (Dynamic Tailwater)
1=Culvert (Barrel Controls 2.42 cfs @ 3.70 fps)

Summary for Pond DE3: DMH-E3

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf
Outflow = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.51 cfs @ 12.09 hrs, Volume= 15,951 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.34' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.10 cfs @ 12.09 hrs HW=156.32' TW=155.70' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.10 cfs @ 3.49 fps)

Summary for Pond DE4: DMH-E4

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf
Outflow = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.54 cfs @ 12.09 hrs, Volume= 23,109 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.71' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.36 cfs @ 12.09 hrs HW=155.70' TW=154.75' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 6.36 cfs @ 4.51 fps)

Summary for Pond DE5: DMH-E5

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf
Outflow = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.37 cfs @ 12.09 hrs, Volume= 29,602 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.78' @ 12.10 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.56 cfs @ 12.09 hrs HW=154.75' TW=154.11' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 7.56 cfs @ 3.98 fps)

Summary for Pond DE6: DMH-E9

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf
Outflow = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.07 cfs @ 12.09 hrs, Volume= 35,584 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.13' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=9.80 cfs @ 12.09 hrs HW=154.11' TW=152.81' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 9.80 cfs @ 4.93 fps)

Summary for Pond DE7: DMH-E7

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf
Outflow = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.20 cfs @ 12.09 hrs, Volume= 57,261 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.86' @ 12.11 hrs
Flood Elev= 161.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.01'	**42.0" Round Culvert** L= 78.0' Ke= 0.500 Inlet / Outlet Invert= 151.01' / 150.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=14.16 cfs @ 12.09 hrs HW=152.81' TW=152.27' (Dynamic Tailwater)
1=Culvert (Outlet Controls 14.16 cfs @ 4.14 fps)

Summary for Pond DE8: DMH-E8

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf
Outflow = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.49 cfs @ 12.09 hrs, Volume= 8,794 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.16' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.43' / 153.01' S= 0.0178 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.42 cfs @ 12.09 hrs HW=156.15' TW=152.81' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.42 cfs @ 2.89 fps)

Summary for Pond DE9: DMH-E9

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 2.73" for 2-YR event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 1,636 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.99' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.65'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 158.65' / 155.93' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=158.98' TW=156.15' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.45 cfs @ 1.97 fps)

Summary for Pond PC: POND C

Inflow Area = 683,407 sf, 81.92% Impervious, Inflow Depth > 2.06" for 2-YR event
Inflow = 34.17 cfs @ 12.09 hrs, Volume= 117,155 cf
Outflow = 3.61 cfs @ 12.85 hrs, Volume= 117,126 cf, Atten= 89%, Lag= 45.7 min
Discarded = 3.61 cfs @ 12.85 hrs, Volume= 117,126 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 145.55' @ 12.85 hrs Surf.Area= 31,116 sf Storage= 41,788 cf
Flood Elev= 150.00' Surf.Area= 44,250 sf Storage= 211,891 cf

Plug-Flow detention time= 90.7 min calculated for 117,126 cf (100% of inflow)
Center-of-Mass det. time= 90.5 min (866.3 - 775.9)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	211,891 cf	**Custom Stage Data (Conic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
144.00	23,000	0	0	23,000
146.00	33,700	56,360	56,360	33,766
148.00	38,850	72,489	128,849	39,090
150.00	44,250	83,041	211,891	44,679

Device	Routing	Invert	Outlet Devices
#1	Discarded	144.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 36.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.20' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=3.61 cfs @ 12.85 hrs HW=145.55' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 3.61 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' TW=0.00' (Dynamic Tailwater)
↑**2=Culvert** (Controls 0.00 cfs)
↑**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PD: POND D

Inflow Area = 1,054,789 sf, 57.80% Impervious, Inflow Depth > 1.38" for 2-YR event
Inflow = 19.56 cfs @ 12.15 hrs, Volume= 121,172 cf
Outflow = 2.73 cfs @ 13.90 hrs, Volume= 121,138 cf, Atten= 86%, Lag= 105.2 min
Discarded = 2.73 cfs @ 13.90 hrs, Volume= 121,138 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 144.38' @ 13.90 hrs Surf.Area= 23,403 sf Storage= 49,230 cf
Flood Elev= 150.00' Surf.Area= 37,700 sf Storage= 225,094 cf

Plug-Flow detention time= 165.2 min calculated for 121,138 cf (100% of inflow)
Center-of-Mass det. time= 165.1 min (974.0 - 808.9)

Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	225,094 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
142.00	18,500	0	0	18,500
144.00	22,150	40,595	40,595	22,287
146.00	29,150	51,140	91,735	29,378
148.00	33,300	62,404	154,139	33,713
150.00	37,700	70,955	225,094	38,311

Device	Routing	Invert	Outlet Devices
#1	Discarded	142.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.17' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=2.73 cfs @ 13.90 hrs HW=144.38' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 2.73 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Culvert** (Controls 0.00 cfs)
↑—**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PE: POND E

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 1.49" for 2-YR event
Inflow = 30.71 cfs @ 12.09 hrs, Volume= 105,628 cf
Outflow = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf, Atten= 48%, Lag= 8.6 min
Primary = 15.82 cfs @ 12.23 hrs, Volume= 103,499 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Starting Elev= 150.00' Surf.Area= 9,000 sf Storage= 15,000 cf
Peak Elev= 152.09' @ 12.24 hrs Surf.Area= 12,418 sf Storage= 37,388 cf (22,388 cf above start)
Flood Elev= 160.00' Surf.Area= 30,200 sf Storage= 200,400 cf (185,400 cf above start)

Plug-Flow detention time= 139.0 min calculated for 88,499 cf (84% of inflow)
Center-of-Mass det. time= 32.3 min (805.9 - 773.6)

Volume	Invert	Avail.Storage	Storage Description
#1	148.00'	200,400 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
148.00	6,000	0	0
150.00	9,000	15,000	15,000
152.00	12,250	21,250	36,250
154.00	15,900	28,150	64,400
156.00	20,150	36,050	100,450
158.00	24,800	44,950	145,400
160.00	30,200	55,000	200,400

Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	**30.0" Round Culvert** L= 153.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.14' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf
#2	Device 1	150.00'	**24.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	157.50'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=15.74 cfs @ 12.23 hrs HW=152.09' TW=151.01' (Dynamic Tailwater)
↑**1=Culvert** (Passes 15.74 cfs of 18.06 cfs potential flow)
↑**2=Orifice/Grate** (Orifice Controls 15.74 cfs @ 5.01 fps)
3=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond PH: POND H

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth > 0.00" for 2-YR event
Inflow = 0.00 cfs @ 24.00 hrs, Volume= 1 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 150.00' Surf.Area= 5,950 sf Storage= 13,653 cf
Peak Elev= 150.00' @ 24.00 hrs Surf.Area= 5,950 sf Storage= 13,654 cf (1 cf above start)
Flood Elev= 154.00' Surf.Area= 11,300 sf Storage= 47,909 cf (34,256 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	146.00'	47,909 cf	**Custom Stage Data (Conic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
146.00	1,500	0	0	1,500
148.00	3,225	4,616	4,616	3,258
150.00	5,950	9,037	13,653	6,024
152.00	8,574	14,444	28,098	8,716
154.00	11,300	19,811	47,909	11,532

Device	Routing	Invert	Outlet Devices
#1	Primary	150.00'	**15.0" Round Culvert** L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 150.00' / 149.78' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf
#2	Device 1	150.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#3	Primary	153.50'	**48.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' TW=152.00' (Dynamic Tailwater)
- **1=Culvert** (Controls 0.00 cfs)
  - **2=Orifice/Grate** (Controls 0.00 cfs)
- **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 57,112 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,252,889 sf, 38.55% Impervious, Inflow Depth > 0.00" for 2-YR event
Inflow = 0.02 cfs @ 21.97 hrs, Volume= 618 cf
Primary = 0.02 cfs @ 21.97 hrs, Volume= 618 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 212,906 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 71,723 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth = 0.00" for 2-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A1: SUBCAT A1 Runoff Area=4,895 sf 63.11% Impervious Runoff Depth>2.10"
Tc=6.0 min CN=76 Runoff=0.27 cfs 858 cf

Subcatchment A2: SUBCAT A2 Runoff Area=5,412 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.53 cfs 1,908 cf

Subcatchment A3: SUBCAT A3 Runoff Area=5,889 sf 94.62% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=0.56 cfs 1,910 cf

Subcatchment A4: SUBCAT A4 Runoff Area=6,616 sf 89.62% Impervious Runoff Depth>3.57"
Tc=6.0 min CN=92 Runoff=0.59 cfs 1,968 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment C1: SUBCAT C1 Runoff Area=6,254 sf 34.70% Impervious Runoff Depth>0.94"
Tc=6.0 min CN=59 Runoff=0.13 cfs 492 cf

Subcatchment C10: SUBCAT C10 Runoff Area=26,752 sf 95.25% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=2.53 cfs 8,678 cf

Subcatchment C11: SUBCAT C11 Runoff Area=6,044 sf 71.33% Impervious Runoff Depth>2.52"
Tc=6.0 min CN=81 Runoff=0.40 cfs 1,269 cf

Subcatchment C12: SUBCAT C12 Runoff Area=8,341 sf 76.62% Impervious Runoff Depth>2.79"
Tc=6.0 min CN=84 Runoff=0.61 cfs 1,937 cf

Subcatchment C13: SUBCAT C13 Runoff Area=3,872 sf 77.27% Impervious Runoff Depth>2.88"
Tc=6.0 min CN=85 Runoff=0.29 cfs 929 cf

Subcatchment C14: SUBCAT C14 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.29 cfs 1,055 cf

Subcatchment C15: SUBCAT C15 Runoff Area=3,872 sf 81.40% Impervious Runoff Depth>3.07"
Tc=6.0 min CN=87 Runoff=0.31 cfs 990 cf

Subcatchment C16: SUBCAT C16 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.29 cfs 1,055 cf

Subcatchment C17: SUBCAT C17 Runoff Area=25,506 sf 95.04% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=2.42 cfs 8,273 cf

Subcatchment C18: SUBCAT C18 Runoff Area=27,087 sf 99.38% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.65 cfs 9,552 cf

Subcatchment C19: SUBCAT C19 Runoff Area=41,584 sf 80.98% Impervious Runoff Depth>3.07"
Tc=6.0 min CN=87 Runoff=3.32 cfs 10,634 cf

Subcatchment C2: SUBCAT C2 Runoff Area=4,249 sf 80.40% Impervious Runoff Depth>2.97"
Tc=6.0 min CN=86 Runoff=0.33 cfs 1,053 cf

Subcatchment C20: SUBCAT C20 Runoff Area=3,692 sf 81.61% Impervious Runoff Depth>3.07"
Tc=6.0 min CN=87 Runoff=0.29 cfs 944 cf

Subcatchment C21: SUBCAT C21 Runoff Area=3,610 sf 79.03% Impervious Runoff Depth>2.97"
Tc=6.0 min CN=86 Runoff=0.28 cfs 894 cf

Subcatchment C22: SUBCAT C22 Runoff Area=3,940 sf 77.16% Impervious Runoff Depth>2.88"
Tc=6.0 min CN=85 Runoff=0.30 cfs 945 cf

Subcatchment C23: SUBCAT C23 Runoff Area=3,424 sf 90.30% Impervious Runoff Depth>3.57"
Tc=6.0 min CN=92 Runoff=0.31 cfs 1,019 cf

Subcatchment C24: SUBCAT C24 Runoff Area=11,181 sf 56.94% Impervious Runoff Depth>1.87"
Tc=6.0 min CN=73 Runoff=0.55 cfs 1,743 cf

Subcatchment C25: SUBCAT C25 Runoff Area=5,747 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.56 cfs 2,027 cf

Subcatchment C26: SUBCAT C26 Runoff Area=2,533 sf 92.22% Impervious Runoff Depth>3.68"
Tc=6.0 min CN=93 Runoff=0.23 cfs 776 cf

Subcatchment C27: SUBCAT C27 Runoff Area=8,243 sf 88.85% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=0.73 cfs 2,381 cf

Subcatchment C28: SUBCAT C28 Runoff Area=9,089 sf 85.50% Impervious Runoff Depth>3.26"
Tc=6.0 min CN=89 Runoff=0.76 cfs 2,472 cf

Subcatchment C29: SUBCAT C29 Runoff Area=4,785 sf 67.29% Impervious Runoff Depth>2.35"
Tc=6.0 min CN=79 Runoff=0.30 cfs 937 cf

Subcatchment C3: SUBCAT C3 Runoff Area=1,309 sf 87.47% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=0.12 cfs 378 cf

Subcatchment C30: SUBCAT C30 Runoff Area=3,220 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.32 cfs 1,135 cf

Subcatchment C31: SUBCAT C31 Runoff Area=9,362 sf 86.57% Impervious Runoff Depth>3.36"
Tc=6.0 min CN=90 Runoff=0.81 cfs 2,625 cf

Subcatchment C32: SUBCAT C32 Runoff Area=4,710 sf 67.69% Impervious Runoff Depth>2.35"
Tc=6.0 min CN=79 Runoff=0.29 cfs 922 cf

Subcatchment C33: SUBCAT C33 Runoff Area=6,131 sf 52.05% Impervious Runoff Depth>1.31"
Tc=6.0 min CN=65 Runoff=0.20 cfs 669 cf

Subcatchment C34: SUBCAT C34 Runoff Area=8,792 sf 87.89% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=0.77 cfs 2,540 cf

Subcatchment C35: SUBCAT C35 Runoff Area=3,541 sf 65.66% Impervious Runoff Depth>2.27"
Tc=6.0 min CN=78 Runoff=0.21 cfs 669 cf

Subcatchment C36: SUBCAT C36 Runoff Area=4,686 sf 33.91% Impervious Runoff Depth>0.63"
Tc=6.0 min CN=53 Runoff=0.05 cfs 245 cf

Subcatchment C37: SUBCAT C37 Runoff Area=10,601 sf 53.01% Impervious Runoff Depth>1.65"
Tc=6.0 min CN=70 Runoff=0.45 cfs 1,458 cf

Subcatchment C38: SUBCAT C38 Runoff Area=6,400 sf 79.30% Impervious Runoff Depth>2.97"
Tc=6.0 min CN=86 Runoff=0.50 cfs 1,586 cf

Subcatchment C4: SUBCAT C4 Runoff Area=5,937 sf 33.28% Impervious Runoff Depth>0.94"
Tc=6.0 min CN=59 Runoff=0.12 cfs 467 cf

Subcatchment C5: SUBCAT C5 Runoff Area=5,125 sf 32.45% Impervious Runoff Depth>0.89"
Tc=6.0 min CN=58 Runoff=0.10 cfs 379 cf

Subcatchment C6: SUBCAT C6 Runoff Area=2,104 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.21 cfs 742 cf

Subcatchment C7: SUBCAT C7 Runoff Area=2,469 sf 80.19% Impervious Runoff Depth>2.97"
Tc=6.0 min CN=86 Runoff=0.19 cfs 612 cf

Subcatchment C8: SUBCAT C8 Runoff Area=31,789 sf 87.55% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=2.80 cfs 9,183 cf

Subcatchment C9: SUBCAT C9 Runoff Area=26,752 sf 99.34% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.62 cfs 9,433 cf

Subcatchment D1: SUBCAT D1 Runoff Area=6,306 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.62 cfs 2,224 cf

Subcatchment D10: SUBCAT D10 Runoff Area=8,279 sf 85.05% Impervious Runoff Depth>3.26"
Tc=6.0 min CN=89 Runoff=0.70 cfs 2,252 cf

Subcatchment D11: SUBCAT D11 Runoff Area=22,108 sf 71.77% Impervious Runoff Depth>2.52"
Tc=6.0 min CN=81 Runoff=1.47 cfs 4,643 cf

Subcatchment D12: SUBCAT D12 Runoff Area=8,350 sf 88.55% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=0.73 cfs 2,412 cf

Subcatchment D2: SUBCAT D2 Runoff Area=1,690 sf 84.14% Impervious Runoff Depth>3.26"
Tc=6.0 min CN=89 Runoff=0.14 cfs 460 cf

Subcatchment D3: SUBCAT D3 Runoff Area=34,598 sf 51.01% Impervious Runoff Depth>1.58"
Tc=6.0 min CN=69 Runoff=1.40 cfs 4,555 cf

Subcatchment D4: SUBCAT D4 Runoff Area=3,657 sf 72.49% Impervious Runoff Depth>2.61"
Tc=6.0 min CN=82 Runoff=0.25 cfs 795 cf

Subcatchment D5: SUBCAT D5 Runoff Area=6,341 sf 62.81% Impervious Runoff Depth>2.10"
Tc=6.0 min CN=76 Runoff=0.35 cfs 1,112 cf

Subcatchment D6: SUBCAT D6 Runoff Area=6,633 sf 75.95% Impervious Runoff Depth>2.79"
Tc=6.0 min CN=84 Runoff=0.49 cfs 1,541 cf

Subcatchment D7: SUBCAT D7 Runoff Area=17,040 sf 81.32% Impervious Runoff Depth>3.07"
Tc=6.0 min CN=87 Runoff=1.36 cfs 4,357 cf

Subcatchment D8: SUBCAT D8 Runoff Area=7,740 sf 84.12% Impervious Runoff Depth>3.26"
Tc=6.0 min CN=89 Runoff=0.65 cfs 2,105 cf

Subcatchment D9: SUBCAT D9 Runoff Area=19,265 sf 81.28% Impervious Runoff Depth>3.07"
Tc=6.0 min CN=87 Runoff=1.54 cfs 4,926 cf

Subcatchment E1: SUBCAT E1 Runoff Area=5,639 sf 95.66% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=0.53 cfs 1,829 cf

Subcatchment E10: SUBCAT E10 Runoff Area=11,128 sf 61.34% Impervious Runoff Depth>2.02"
Tc=6.0 min CN=75 Runoff=0.59 cfs 1,878 cf

Subcatchment E11: SUBCAT E11 Runoff Area=23,375 sf 93.96% Impervious Runoff Depth>3.78"
Tc=6.0 min CN=94 Runoff=2.18 cfs 7,370 cf

Subcatchment E12: SUBCAT E12 Runoff Area=18,833 sf 95.13% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=1.78 cfs 6,109 cf

Subcatchment E13: SUBCAT E13 Runoff Area=35,467 sf 94.58% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=3.36 cfs 11,505 cf

Subcatchment E14: SUBCAT E14 Runoff Area=27,808 sf 98.14% Impervious Runoff Depth>4.12"
Tc=6.0 min CN=97 Runoff=2.70 cfs 9,539 cf

Subcatchment E15: SUBCAT E15 Runoff Area=32,392 sf 98.14% Impervious Runoff Depth>4.12"
Tc=6.0 min CN=97 Runoff=3.14 cfs 11,112 cf

Subcatchment E16: SUBCAT E16 Runoff Area=30,721 sf 76.36% Impervious Runoff Depth>2.79"
Tc=6.0 min CN=84 Runoff=2.25 cfs 7,136 cf

Subcatchment E17: SUBCAT E17 Runoff Area=120,518 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=190' Tc=7.2 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E18: SUBCAT E18 Runoff Area=11,752 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E19: SUBCAT E19 Runoff Area=75,753 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment E2: SUBCAT E2 Runoff Area=6,746 sf 96.37% Impervious Runoff Depth>4.00"
Tc=6.0 min CN=96 Runoff=0.65 cfs 2,251 cf

Subcatchment E3: SUBCAT E3 Runoff Area=10,197 sf 93.34% Impervious Runoff Depth>3.78"
Tc=6.0 min CN=94 Runoff=0.95 cfs 3,215 cf

Subcatchment E4: SUBCAT E4 Runoff Area=11,078 sf 88.18% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=0.98 cfs 3,200 cf

Subcatchment E5: SUBCAT E5 Runoff Area=9,740 sf 67.06% Impervious Runoff Depth>2.35"
Tc=6.0 min CN=79 Runoff=0.60 cfs 1,907 cf

Subcatchment E6: SUBCAT E6 Runoff Area=13,215 sf 67.23% Impervious Runoff Depth>2.35"
Tc=6.0 min CN=79 Runoff=0.82 cfs 2,587 cf

Subcatchment E7: SUBCAT E7 Runoff Area=9,100 sf 90.92% Impervious Runoff Depth>3.68"
Tc=6.0 min CN=93 Runoff=0.83 cfs 2,788 cf

Subcatchment E8: SUBCAT E8 Runoff Area=12,697 sf 90.53% Impervious Runoff Depth>3.57"
Tc=6.0 min CN=92 Runoff=1.14 cfs 3,778 cf

Subcatchment E9: SUBCAT E9 Runoff Area=3,988 sf 94.93% Impervious Runoff Depth>3.89"
Tc=6.0 min CN=95 Runoff=0.38 cfs 1,294 cf

Subcatchment G1: SUBCAT G1 Runoff Area=203,535 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=1,090' Tc=11.8 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.29"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=0.71 cfs 7,605 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.19"
Tc=6.0 min CN=42 Runoff=0.28 cfs 4,892 cf

Subcatchment R1: SUBCAT R1 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.70 cfs 2,539 cf

Subcatchment R10: SUBCAT R10 Runoff Area=32,400 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.17 cfs 11,425 cf

Subcatchment R11: SUBCAT R11 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R12: SUBCAT R12 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R13: SUBCAT R13 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.58 cfs 9,283 cf

Subcatchment R14: SUBCAT R14 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.80 cfs 10,076 cf

Subcatchment R15: SUBCAT R15 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R16: SUBCAT R16 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R17: SUBCAT R17 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R18: SUBCAT R18 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.70 cfs 2,539 cf

Subcatchment R2: SUBCAT R2 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R3: SUBCAT R3 Runoff Area=56,700 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=5.55 cfs 19,994 cf

Subcatchment R4: SUBCAT R4 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.58 cfs 9,283 cf

Subcatchment R5: SUBCAT R5 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=2.80 cfs 10,076 cf

Subcatchment R6: SUBCAT R6 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R7: SUBCAT R7 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R8: SUBCAT R8 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=3.08 cfs 11,108 cf

Subcatchment R9: SUBCAT R9 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.70 cfs 2,539 cf

Subcatchment S1: SUBCAT S1 Runoff Area=57,112 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S10: SUBCAT S10 Runoff Area=96,652 sf 6.11% Impervious Runoff Depth>0.02"
Flow Length=455' Tc=12.0 min CN=34 Runoff=0.01 cfs 136 cf

Subcatchment S11: SUBCAT S11 Runoff Area=113,276 sf 14.81% Impervious Runoff Depth>0.13"
Flow Length=327' Tc=6.0 min CN=40 Runoff=0.05 cfs 1,234 cf

Subcatchment S12: SUBCAT S12 Runoff Area=23,144 sf 3.59% Impervious Runoff Depth>0.16"
Tc=6.0 min CN=41 Runoff=0.01 cfs 305 cf

Subcatchment S13: SUBCAT S13 Runoff Area=13,348 sf 89.17% Impervious Runoff Depth>3.57"
Tc=6.0 min CN=92 Runoff=1.20 cfs 3,971 cf

Subcatchment S14: SUBCAT S14 Runoff Area=11,820 sf 88.58% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=91 Runoff=1.04 cfs 3,415 cf

Subcatchment S2: SUBCAT S2 Runoff Area=71,723 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S3: SUBCAT S3 Runoff Area=100,949 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S4: SUBCAT S4 Runoff Area=212,906 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S5: SUBCAT S5 Runoff Area=52,646 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S6: SUBCAT S6 Runoff Area=71,750 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=30 Runoff=0.00 cfs 0 cf

Subcatchment S8: SUBCAT S8 Runoff Area=446,502 sf 8.05% Impervious Runoff Depth>0.03"
Flow Length=2,253' Tc=13.6 min CN=35 Runoff=0.04 cfs 1,079 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.01' Max Vel=0.31 fps Inflow=0.04 cfs 1,329 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.04 cfs 1,225 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.01' Max Vel=0.34 fps Inflow=0.08 cfs 2,304 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.07 cfs 2,119 cf

Reach RG: REACH G Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
12.0" Round Pipe n=0.012 L=180.0' S=0.0278 '/' Capacity=6.43 cfs Outflow=0.00 cfs 0 cf

Reach W1: WETLAND REACH 1 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=420.0' S=0.0190 '/' Capacity=177.62 cfs Outflow=0.00 cfs 0 cf

Reach W2: WETLAND REACH 2 Avg. Flow Depth=0.01' Max Vel=0.21 fps Inflow=0.05 cfs 1,234 cf
n=0.030 L=480.0' S=0.0083 '/' Capacity=117.48 cfs Outflow=0.04 cfs 1,193 cf

Pond CA1: CB-A1 Peak Elev=156.20' Inflow=0.80 cfs 2,767 cf
12.0" Round Culvert n=0.012 L=83.0' S=0.0100 '/' Outflow=0.80 cfs 2,767 cf

Pond CA2: CB-A2 Peak Elev=156.62' Inflow=0.53 cfs 1,908 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0100 '/' Outflow=0.53 cfs 1,908 cf

Pond CA3: CB-A3 Peak Elev=154.89' Inflow=3.39 cfs 11,265 cf
18.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=3.39 cfs 11,265 cf

Pond CA4: CB-A4 Peak Elev=155.33' Inflow=0.59 cfs 1,968 cf
12.0" Round Culvert n=0.012 L=50.0' S=0.0100 '/' Outflow=0.59 cfs 1,968 cf

Pond CC1: CB-C1 Peak Elev=159.49' Inflow=0.13 cfs 492 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0048 '/' Outflow=0.13 cfs 492 cf

Pond CC10: CB-C10 Peak Elev=153.47' Inflow=15.32 cfs 51,594 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=15.32 cfs 51,594 cf

Pond CC11: CB-C11 Peak Elev=156.06' Inflow=0.40 cfs 1,269 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0200 '/' Outflow=0.40 cfs 1,269 cf

Pond CC12: CB-C12 Peak Elev=149.23' Inflow=8.68 cfs 28,840 cf
24.0" Round Culvert n=0.012 L=70.0' S=0.0050 '/' Outflow=8.68 cfs 28,840 cf

Pond CC13: CB-C13 Peak Elev=156.02' Inflow=0.29 cfs 929 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.29 cfs 929 cf

Pond CC14: CB-C14 Peak Elev=150.10' Inflow=7.67 cfs 25,633 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=7.67 cfs 25,633 cf

Pond CC15: CB-C15 Peak Elev=156.02' Inflow=0.31 cfs 990 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.31 cfs 990 cf

Pond CC16: CB-C16 Peak Elev=150.97' Inflow=7.08 cfs 23,649 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=7.08 cfs 23,649 cf

Pond CC17: CB-C17 Peak Elev=154.20' Inflow=12.79 cfs 42,917 cf
30.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=12.79 cfs 42,917 cf

Pond CC18: CB-C18 Peak Elev=154.92' Inflow=10.37 cfs 34,643 cf
30.0" Round Culvert n=0.012 L=168.0' S=0.0050 '/' Outflow=10.37 cfs 34,643 cf

Pond CC19: CB-C19 Peak Elev=156.09' Inflow=7.72 cfs 25,092 cf
24.0" Round Culvert n=0.012 L=181.0' S=0.0050 '/' Outflow=7.72 cfs 25,092 cf

Pond CC2: CB-C2 Peak Elev=159.38' Inflow=0.46 cfs 1,545 cf
12.0" Round Culvert n=0.012 L=56.0' S=0.0050 '/' Outflow=0.46 cfs 1,545 cf

Pond CC20: CB-C20 Peak Elev=151.84' Inflow=6.48 cfs 21,604 cf
24.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=6.48 cfs 21,604 cf

Pond CC21: CB-C21 Peak Elev=156.01' Inflow=0.28 cfs 894 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.28 cfs 894 cf

Pond CC22: CB-C22 Peak Elev=156.02' Inflow=0.30 cfs 945 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.30 cfs 945 cf

Pond CC23: CB-C23 Peak Elev=152.74' Inflow=5.90 cfs 19,766 cf
24.0" Round Culvert n=0.012 L=173.0' S=0.0050 '/' Outflow=5.90 cfs 19,766 cf

Pond CC24: CB-C24 Peak Elev=155.42' Inflow=1.34 cfs 4,510 cf
12.0" Round Culvert n=0.012 L=42.0' S=0.0290 '/' Outflow=1.34 cfs 4,510 cf

Pond CC25: CB-C25 Peak Elev=153.71' Inflow=5.30 cfs 17,801 cf
24.0" Round Culvert n=0.012 L=190.0' S=0.0050 '/' Outflow=5.30 cfs 17,801 cf

Pond CC26: CB-C26 Peak Elev=158.63' Inflow=0.84 cfs 2,848 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0224 '/' Outflow=0.84 cfs 2,848 cf

Pond CC27: CB-C27 Peak Elev=158.48' Inflow=3.56 cfs 11,610 cf
18.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=3.56 cfs 11,610 cf

Pond CC28: CB-C28 Peak Elev=159.17' Inflow=2.83 cfs 9,229 cf
15.0" Round Culvert n=0.012 L=101.0' S=0.0050 '/' Outflow=2.83 cfs 9,229 cf

Pond CC29: CB-C29 Peak Elev=160.19' Inflow=0.61 cfs 2,072 cf
12.0" Round Culvert n=0.012 L=77.0' S=0.0200 '/' Outflow=0.61 cfs 2,072 cf

Pond CC3: CB-C3 Peak Elev=159.08' Inflow=0.57 cfs 1,923 cf
12.0" Round Culvert n=0.012 L=75.0' S=0.0049 '/' Outflow=0.57 cfs 1,923 cf

Pond CC30: CB-C30 Peak Elev=160.70' Inflow=0.32 cfs 1,135 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.32 cfs 1,135 cf

Pond CC31: CB-C31 Peak Elev=159.81' Inflow=2.07 cfs 6,756 cf
15.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=2.07 cfs 6,756 cf

Pond CC32: CB-C32 Peak Elev=161.65' Inflow=0.49 cfs 1,591 cf
12.0" Round Culvert n=0.012 L=53.0' S=0.0292 '/' Outflow=0.49 cfs 1,591 cf

Pond CC33: CB-C33 Peak Elev=162.37' Inflow=0.20 cfs 669 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0288 '/' Outflow=0.20 cfs 669 cf

Pond CC34: CB-C34 Peak Elev=160.32' Inflow=1.26 cfs 4,131 cf
12.0" Round Culvert n=0.012 L=88.0' S=0.0050 '/' Outflow=1.26 cfs 4,131 cf

Pond CC35: CB-C35 Peak Elev=159.41' Inflow=0.71 cfs 2,372 cf
12.0" Round Culvert n=0.012 L=90.0' S=0.0303 '/' Outflow=0.71 cfs 2,372 cf

Pond CC36: CB-C36 Peak Elev=160.25' Inflow=0.05 cfs 245 cf
12.0" Round Culvert n=0.012 L=40.0' S=0.0267 '/' Outflow=0.05 cfs 245 cf

Pond CC37: CB-C37 Peak Elev=159.64' Inflow=0.45 cfs 1,458 cf
12.0" Round Culvert n=0.012 L=34.0' S=0.0050 '/' Outflow=0.45 cfs 1,458 cf

Pond CC38: CB-C38 Peak Elev=161.65' Inflow=0.50 cfs 1,586 cf
12.0" Round Culvert n=0.012 L=120.0' S=0.0179 '/' Outflow=0.50 cfs 1,586 cf

Pond CC4: CB-C4 Peak Elev=157.68' Inflow=0.12 cfs 467 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0100 '/' Outflow=0.12 cfs 467 cf

Pond CC5: CB-C5 Peak Elev=159.60' Inflow=0.10 cfs 379 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0100 '/' Outflow=0.10 cfs 379 cf

Pond CC6: CB-C6 Peak Elev=156.81' Inflow=0.62 cfs 2,200 cf
12.0" Round Culvert n=0.012 L=73.0' S=0.0100 '/' Outflow=0.62 cfs 2,200 cf

Pond CC7: CB-C7 Peak Elev=157.42' Inflow=0.31 cfs 1,079 cf
12.0" Round Culvert n=0.012 L=62.0' S=0.0100 '/' Outflow=0.31 cfs 1,079 cf

Pond CC8: CB-C8 Peak Elev=151.28' Inflow=20.74 cfs 70,211 cf
36.0" Round Culvert n=0.012 L=85.0' S=0.0051 '/' Outflow=20.74 cfs 70,211 cf

Pond CC9: CB-C9 Peak Elev=152.55' Inflow=17.94 cfs 61,028 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=17.94 cfs 61,028 cf

Pond CD1: CB-D1 Peak Elev=159.49' Inflow=0.62 cfs 2,224 cf
12.0" Round Culvert n=0.012 L=144.0' S=0.0050 '/' Outflow=0.62 cfs 2,224 cf

Pond CD10: CB-D10 Peak Elev=159.17' Inflow=0.70 cfs 2,252 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0300 '/' Outflow=0.70 cfs 2,252 cf

Pond CD11: CB-D11 Peak Elev=154.99' Inflow=10.26 cfs 33,305 cf
24.0" Round Culvert n=0.012 L=264.0' S=0.0133 '/' Outflow=10.26 cfs 33,305 cf

Pond CD12: CB-D12 Peak Elev=158.74' Inflow=1.31 cfs 4,335 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0299 '/' Outflow=1.31 cfs 4,335 cf

Pond CD2: CB-D2 Peak Elev=158.67' Inflow=0.76 cfs 2,683 cf
12.0" Round Culvert n=0.012 L=91.0' S=0.0189 '/' Outflow=0.76 cfs 2,683 cf

Pond CD3: CB-D3 Peak Elev=157.48' Inflow=1.40 cfs 4,555 cf
12.0" Round Culvert n=0.012 L=48.0' S=0.0050 '/' Outflow=1.40 cfs 4,555 cf

Pond CD4: CB-D4 Peak Elev=156.94' Inflow=3.24 cfs 10,686 cf
18.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=3.24 cfs 10,686 cf

Pond CD5: CB-D5 Peak Elev=158.22' Inflow=0.84 cfs 2,652 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0477 '/' Outflow=0.84 cfs 2,652 cf

Pond CD6: CB-D6 Peak Elev=158.55' Inflow=0.49 cfs 1,541 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0100 '/' Outflow=0.49 cfs 1,541 cf

Pond CD7: CB-D7 Peak Elev=155.95' Inflow=5.25 cfs 17,148 cf
24.0" Round Culvert n=0.012 L=93.0' S=0.0051 '/' Outflow=5.25 cfs 17,148 cf

Pond CD8: CB-D8 Peak Elev=159.16' Inflow=0.65 cfs 2,105 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0253 '/' Outflow=0.65 cfs 2,105 cf

Pond CD9: CB-D9 Peak Elev=155.59' Inflow=7.48 cfs 24,327 cf
24.0" Round Culvert n=0.012 L=100.0' S=0.0050 '/' Outflow=7.48 cfs 24,327 cf

Pond CE1: CB-E1 Peak Elev=161.22' Inflow=0.53 cfs 1,829 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0661 '/' Outflow=0.53 cfs 1,829 cf

Pond CE10: CB-E10 Peak Elev=153.23' Inflow=25.26 cfs 90,739 cf
42.0" Round Culvert n=0.012 L=43.0' S=0.0049 '/' Outflow=25.26 cfs 90,739 cf

Pond CE11: CB-E11 Peak Elev=153.26' Inflow=16.12 cfs 55,142 cf
30.0" Round Culvert n=0.012 L=104.0' S=0.0050 '/' Outflow=16.12 cfs 55,142 cf

Pond CE12: CB-E12 Peak Elev=153.62' Inflow=13.94 cfs 47,773 cf
30.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=13.94 cfs 47,773 cf

Pond CE13: CB-E13 Peak Elev=154.32' Inflow=12.15 cfs 41,664 cf
30.0" Round Culvert n=0.012 L=161.0' S=0.0050 '/' Outflow=12.15 cfs 41,664 cf

Pond CE14: CB-E14 Peak Elev=155.32' Inflow=8.80 cfs 30,159 cf
24.0" Round Culvert n=0.012 L=155.0' S=0.0050 '/' Outflow=8.80 cfs 30,159 cf

Pond CE15: CB-E15 Peak Elev=155.94' Inflow=6.10 cfs 20,620 cf
24.0" Round Culvert n=0.012 L=134.0' S=0.0050 '/' Outflow=6.10 cfs 20,620 cf

Pond CE16: CB-E16 Peak Elev=156.65' Inflow=2.96 cfs 9,508 cf
18.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=2.96 cfs 9,508 cf

Pond CE17: CB-E17 Peak Elev=161.49' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=64.0' S=0.0100 '/' Outflow=0.00 cfs 0 cf

Pond CE18: CB-E18 Peak Elev=156.71' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.00 cfs 0 cf

Pond CE19: CB-E19 Peak Elev=157.37' Inflow=0.00 cfs 0 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.00 cfs 0 cf

Pond CE2: CB-E2 Peak Elev=161.16' Inflow=0.65 cfs 2,251 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0612 '/' Outflow=0.65 cfs 2,251 cf

Pond CE3: CB-E3 Peak Elev=154.48' Inflow=7.38 cfs 24,433 cf
24.0" Round Culvert n=0.012 L=178.0' S=0.0050 '/' Outflow=7.38 cfs 24,433 cf

Pond CE4: CB-E4 Peak Elev=154.89' Inflow=5.89 cfs 19,389 cf
24.0" Round Culvert n=0.012 L=60.0' S=0.0050 '/' Outflow=5.89 cfs 19,389 cf

Pond CE5: CB-E5 Peak Elev=155.59' Inflow=4.27 cfs 13,938 cf
18.0" Round Culvert n=0.012 L=76.0' S=0.0050 '/' Outflow=4.27 cfs 13,938 cf

Pond CE6: CB-E6 Peak Elev=156.32' Inflow=3.67 cfs 12,032 cf
18.0" Round Culvert n=0.012 L=140.0' S=0.0050 '/' Outflow=3.67 cfs 12,032 cf

Pond CE7: CB-E7 Peak Elev=156.94' Inflow=2.85 cfs 9,445 cf
15.0" Round Culvert n=0.012 L=95.0' S=0.0049 '/' Outflow=2.85 cfs 9,445 cf

Pond CE8: CB-E8 Peak Elev=157.59' Inflow=2.02 cfs 6,657 cf
15.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=2.02 cfs 6,657 cf

Pond CE9: CB-E9 Peak Elev=159.53' Inflow=0.87 cfs 2,879 cf
12.0" Round Culvert n=0.012 L=94.0' S=0.0218 '/' Outflow=0.87 cfs 2,879 cf

Pond CS13: CB-S13 Peak Elev=155.73' Inflow=2.24 cfs 7,386 cf
15.0" Round Culvert n=0.012 L=145.0' S=0.0050 '/' Outflow=2.24 cfs 7,386 cf

Pond CS14: CB-S14 Peak Elev=156.69' Inflow=1.04 cfs 3,415 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0100 '/' Outflow=1.04 cfs 3,415 cf

Pond DC1: DMH-C1 Peak Elev=157.76' Inflow=4.40 cfs 14,458 cf
18.0" Round Culvert n=0.012 L=155.0' S=0.0096 '/' Outflow=4.40 cfs 14,458 cf

Pond DC10: DMH-C10 Peak Elev=152.13' Inflow=24.67 cfs 88,862 cf
36.0" Round Culvert n=0.012 L=247.0' S=0.0050 '/' Outflow=24.67 cfs 88,862 cf

Pond DC11: DMH-C11 Peak Elev=148.18' Inflow=30.03 cfs 101,251 cf
42.0" Round Culvert n=0.012 L=174.0' S=0.0050 '/' Outflow=30.03 cfs 101,251 cf

Pond DC2: DMH-C2 Peak Elev=158.22' Inflow=0.70 cfs 2,539 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.70 cfs 2,539 cf

Pond DC3: DMH-C3 Peak Elev=157.46' Inflow=3.79 cfs 13,647 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=3.79 cfs 13,647 cf

Pond DC4: DMH-C4 Peak Elev=156.69' Inflow=6.87 cfs 24,754 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=6.87 cfs 24,754 cf

Pond DC5: DMH-C5 Peak Elev=156.08' Inflow=9.96 cfs 35,862 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=9.96 cfs 35,862 cf

Pond DC6: DMH-C6 Peak Elev=155.26' Inflow=12.75 cfs 45,938 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=12.75 cfs 45,938 cf

Pond DC7: DMH-C7 Peak Elev=154.75' Inflow=15.33 cfs 55,221 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=15.33 cfs 55,221 cf

Pond DC8: DMH-C8 Peak Elev=153.99' Inflow=18.41 cfs 66,329 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=18.41 cfs 66,329 cf

Pond DC9: DMH-C9 Peak Elev=152.98' Inflow=21.50 cfs 77,437 cf
36.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=21.50 cfs 77,437 cf

Pond DD1: DMH-D1 Peak Elev=151.43' Inflow=20.00 cfs 167,663 cf
30.0" Round Culvert n=0.012 L=273.0' S=0.0050 '/' Outflow=20.00 cfs 167,663 cf

Pond DD2: DMH-D2 Peak Elev=150.05' Inflow=20.00 cfs 167,663 cf
30.0" Round Culvert n=0.012 L=183.0' S=0.0050 '/' Outflow=20.00 cfs 167,663 cf

Pond DD3: DMH-D3 Peak Elev=149.00' Inflow=20.00 cfs 167,663 cf
30.0" Round Culvert n=0.012 L=131.0' S=0.0050 '/' Outflow=20.00 cfs 167,663 cf

Pond DD4: DMH-DD4 Peak Elev=148.03' Inflow=20.00 cfs 167,663 cf
30.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=20.00 cfs 167,663 cf

Pond DE1: DMH-E1 Peak Elev=158.22' Inflow=0.70 cfs 2,539 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.70 cfs 2,539 cf

Pond DE2: DMH-E2 Peak Elev=157.46' Inflow=3.79 cfs 13,647 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=3.79 cfs 13,647 cf

Pond DE3: DMH-E3 Peak Elev=156.69' Inflow=6.87 cfs 24,754 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=6.87 cfs 24,754 cf

Pond DE4: DMH-E4 Peak Elev=156.08' Inflow=9.96 cfs 35,862 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=9.96 cfs 35,862 cf

Pond DE5: DMH-E5 Peak Elev=155.22' Inflow=12.75 cfs 45,938 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=12.75 cfs 45,938 cf

Pond DE6: DMH-E9 Peak Elev=154.54' Inflow=15.33 cfs 55,221 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=15.33 cfs 55,221 cf

Pond DE7: DMH-E7 Peak Elev=153.42' Inflow=24.67 cfs 88,862 cf
42.0" Round Culvert n=0.012 L=78.0' S=0.0050 '/' Outflow=24.67 cfs 88,862 cf

Pond DE8: DMH-E8 Peak Elev=156.36' Inflow=3.79 cfs 13,647 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0178 '/' Outflow=3.79 cfs 13,647 cf

Pond DE9: DMH-E9 Peak Elev=159.07' Inflow=0.70 cfs 2,539 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0200 '/' Outflow=0.70 cfs 2,539 cf

Pond PC: POND C Peak Elev=146.66' Storage=79,079 cf Inflow=54.69 cfs 190,113 cf
Discarded=4.11 cfs 190,068 cf Primary=0.00 cfs 0 cf Outflow=4.11 cfs 190,068 cf

Pond PD: POND D Peak Elev=146.13' Storage=95,618 cf Inflow=29.39 cfs 200,968 cf
Discarded=3.43 cfs 164,971 cf Primary=0.00 cfs 0 cf Outflow=3.43 cfs 164,971 cf

Pond PE: POND E Peak Elev=153.16' Storage=51,739 cf Inflow=48.75 cfs 170,315 cf
Outflow=20.00 cfs 167,663 cf

Pond PH: POND H Peak Elev=150.05' Storage=13,958 cf Inflow=0.01 cfs 305 cf
Outflow=0.00 cfs 0 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L2: RIVER Inflow=0.98 cfs 14,615 cf
Primary=0.98 cfs 14,615 cf

Link L3: EX CULVERTS Inflow=0.08 cfs 2,304 cf
Primary=0.08 cfs 2,304 cf

Link L4: WEST PROPERTY LINE Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Link L6: FOX HOLLOW

Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Total Runoff Area = 3,619,215 sf Runoff Volume = 408,984 cf Average Runoff Depth = 1.36"
65.35% Pervious = 2,365,273 sf 34.65% Impervious = 1,253,942 sf

Summary for Subcatchment A1: SUBCAT A1

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 858 cf, Depth> 2.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,089	98	Proposed Pavement
	1,806	39	>75% Grass cover, Good, HSG A
	4,895	76	Weighted Average
	1,806		36.89% Pervious Area
	3,089		63.11% Impervious Area

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

Summary for Subcatchment A2: SUBCAT A2

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 1,908 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,412	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,412	98	Weighted Average
	5,412		100.00% Impervious Area

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

Summary for Subcatchment A3: SUBCAT A3

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 1,910 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,572	98	Proposed Pavement
	317	39	>75% Grass cover, Good, HSG A
	5,889	95	Weighted Average
	317		5.38% Pervious Area
	5,572		94.62% Impervious Area

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

Summary for Subcatchment A4: SUBCAT A4

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 1,968 cf, Depth> 3.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,929	98	Proposed Pavement
	687	39	>75% Grass cover, Good, HSG A
	6,616	92	Weighted Average
	687		10.38% Pervious Area
	5,929		89.62% Impervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C1: SUBCAT C1

Runoff = 0.13 cfs @ 12.11 hrs, Volume= 492 cf, Depth> 0.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,170	98	Proposed Pavement
	4,084	39	>75% Grass cover, Good, HSG A
	6,254	59	Weighted Average
	4,084		65.30% Pervious Area
	2,170		34.70% Impervious Area

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

Summary for Subcatchment C10: SUBCAT C10

Runoff = 2.53 cfs @ 12.09 hrs, Volume= 8,678 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	25,480	98	Proposed Pavement
	1,272	39	>75% Grass cover, Good, HSG A
	26,752	95	Weighted Average
	1,272		4.75% Pervious Area
	25,480		95.25% Impervious Area

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

Summary for Subcatchment C11: SUBCAT C11

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,269 cf, Depth> 2.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	4,311	98	Proposed Pavement
	1,733	39	>75% Grass cover, Good, HSG A
	6,044	81	Weighted Average
	1,733		28.67% Pervious Area
	4,311		71.33% Impervious Area

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

Summary for Subcatchment C12: SUBCAT C12

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 1,937 cf, Depth> 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,391	98	Proposed Pavement
	1,950	39	>75% Grass cover, Good, HSG A
	8,341	84	Weighted Average
	1,950		23.38% Pervious Area
	6,391		76.62% Impervious Area

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

Summary for Subcatchment C13: SUBCAT C13

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 929 cf, Depth> 2.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	880	39	>75% Grass cover, Good, HSG A
	3,872	85	Weighted Average
	880		22.73% Pervious Area
	2,992		77.27% Impervious Area

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

Summary for Subcatchment C14: SUBCAT C14

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,055 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C15: SUBCAT C15

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 990 cf, Depth> 3.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,152	98	Proposed Pavement
	720	39	>75% Grass cover, Good, HSG A
	3,872	87	Weighted Average
	720		18.60% Pervious Area
	3,152		81.40% Impervious Area

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

Summary for Subcatchment C16: SUBCAT C16

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,055 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C17: SUBCAT C17

Runoff = 2.42 cfs @ 12.09 hrs, Volume= 8,273 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	24,242	98	Proposed Pavement
	1,264	39	>75% Grass cover, Good, HSG A
	25,506	95	Weighted Average
	1,264		4.96% Pervious Area
	24,242		95.04% Impervious Area

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

Summary for Subcatchment C18: SUBCAT C18

Runoff = 2.65 cfs @ 12.09 hrs, Volume= 9,552 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	26,918	98	Proposed Pavement
	169	39	>75% Grass cover, Good, HSG A
	27,087	98	Weighted Average
	169		0.62% Pervious Area
	26,918		99.38% Impervious Area

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

Summary for Subcatchment C19: SUBCAT C19

Runoff = 3.32 cfs @ 12.09 hrs, Volume= 10,634 cf, Depth> 3.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	33,675	98	Proposed Pavement
	7,909	39	>75% Grass cover, Good, HSG A
	41,584	87	Weighted Average
	7,909		19.02% Pervious Area
	33,675		80.98% Impervious Area

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

Summary for Subcatchment C2: SUBCAT C2

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,053 cf, Depth> 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,416	98	Proposed Pavement
	833	39	>75% Grass cover, Good, HSG A
	4,249	86	Weighted Average
	833		19.60% Pervious Area
	3,416		80.40% Impervious Area

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

Summary for Subcatchment C20: SUBCAT C20

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 944 cf, Depth> 3.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,013	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	3,692	87	Weighted Average
	679		18.39% Pervious Area
	3,013		81.61% Impervious Area

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

Summary for Subcatchment C21: SUBCAT C21

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 894 cf, Depth> 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,853	98	Proposed Pavement
	757	39	>75% Grass cover, Good, HSG A
	3,610	86	Weighted Average
	757		20.97% Pervious Area
	2,853		79.03% Impervious Area

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

Summary for Subcatchment C22: SUBCAT C22

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 945 cf, Depth> 2.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,040	98	Proposed Pavement
	900	39	>75% Grass cover, Good, HSG A
	3,940	85	Weighted Average
	900		22.84% Pervious Area
	3,040		77.16% Impervious Area

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

Summary for Subcatchment C23: SUBCAT C23

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,019 cf, Depth> 3.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,092	98	Proposed Pavement
	332	39	>75% Grass cover, Good, HSG A
	3,424	92	Weighted Average
	332		9.70% Pervious Area
	3,092		90.30% Impervious Area

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

Summary for Subcatchment C24: SUBCAT C24

Runoff = 0.55 cfs @ 12.10 hrs, Volume= 1,743 cf, Depth> 1.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,366	98	Proposed Pavement
	4,815	39	>75% Grass cover, Good, HSG A
	11,181	73	Weighted Average
	4,815		43.06% Pervious Area
	6,366		56.94% Impervious Area

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

Summary for Subcatchment C25: SUBCAT C25

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 2,027 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,747	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,747	98	Weighted Average
	5,747		100.00% Impervious Area

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

Summary for Subcatchment C26: SUBCAT C26

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 776 cf, Depth> 3.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,336	98	Proposed Pavement
	197	39	>75% Grass cover, Good, HSG A
	2,533	93	Weighted Average
	197		7.78% Pervious Area
	2,336		92.22% Impervious Area

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

Summary for Subcatchment C27: SUBCAT C27

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 2,381 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,324	98	Proposed Pavement
	919	39	>75% Grass cover, Good, HSG A
	8,243	91	Weighted Average
	919		11.15% Pervious Area
	7,324		88.85% Impervious Area

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

Summary for Subcatchment C28: SUBCAT C28

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 2,472 cf, Depth> 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,771	98	Proposed Pavement
	1,318	39	>75% Grass cover, Good, HSG A
	9,089	89	Weighted Average
	1,318		14.50% Pervious Area
	7,771		85.50% Impervious Area

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

Summary for Subcatchment C29: SUBCAT C29

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 937 cf, Depth> 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	1,565	39	>75% Grass cover, Good, HSG A
	4,785	79	Weighted Average
	1,565		32.71% Pervious Area
	3,220		67.29% Impervious Area

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

Summary for Subcatchment C3: SUBCAT C3

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 378 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,145	98	Proposed Pavement
	164	39	>75% Grass cover, Good, HSG A
	1,309	91	Weighted Average
	164		12.53% Pervious Area
	1,145		87.47% Impervious Area

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

Summary for Subcatchment C30: SUBCAT C30

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,135 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	3,220	98	Weighted Average
	3,220		100.00% Impervious Area

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

Summary for Subcatchment C31: SUBCAT C31

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 2,625 cf, Depth> 3.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	8,105	98	Proposed Pavement
	1,257	39	>75% Grass cover, Good, HSG A
	9,362	90	Weighted Average
	1,257		13.43% Pervious Area
	8,105		86.57% Impervious Area

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

Summary for Subcatchment C32: SUBCAT C32

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 922 cf, Depth> 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,188	98	Proposed Pavement
	1,522	39	>75% Grass cover, Good, HSG A
	4,710	79	Weighted Average
	1,522		32.31% Pervious Area
	3,188		67.69% Impervious Area

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

Summary for Subcatchment C33: SUBCAT C33

Runoff = 0.20 cfs @ 12.10 hrs, Volume= 669 cf, Depth> 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,191	98	Proposed Pavement
	2,940	30	Brush, Good, HSG A
	6,131	65	Weighted Average
	2,940		47.95% Pervious Area
	3,191		52.05% Impervious Area

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

Summary for Subcatchment C34: SUBCAT C34

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 2,540 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,727	98	Proposed Pavement
	1,065	39	>75% Grass cover, Good, HSG A
	8,792	91	Weighted Average
	1,065		12.11% Pervious Area
	7,727		87.89% Impervious Area

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

Summary for Subcatchment C35: SUBCAT C35

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 669 cf, Depth> 2.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,325	98	Proposed Pavement
	1,216	39	>75% Grass cover, Good, HSG A
	3,541	78	Weighted Average
	1,216		34.34% Pervious Area
	2,325		65.66% Impervious Area

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

Summary for Subcatchment C36: SUBCAT C36

Runoff = 0.05 cfs @ 12.13 hrs, Volume= 245 cf, Depth> 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,589	98	Proposed Pavement
	3,097	30	Brush, Good, HSG A
	4,686	53	Weighted Average
	3,097		66.09% Pervious Area
	1,589		33.91% Impervious Area

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

Summary for Subcatchment C37: SUBCAT C37

Runoff = 0.45 cfs @ 12.10 hrs, Volume= 1,458 cf, Depth> 1.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,620	98	Proposed Pavement
	4,981	39	>75% Grass cover, Good, HSG A
	10,601	70	Weighted Average
	4,981		46.99% Pervious Area
	5,620		53.01% Impervious Area

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

Summary for Subcatchment C38: SUBCAT C38

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 1,586 cf, Depth> 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,075	98	Proposed Pavement
	1,325	39	>75% Grass cover, Good, HSG A
	6,400	86	Weighted Average
	1,325		20.70% Pervious Area
	5,075		79.30% Impervious Area

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

Summary for Subcatchment C4: SUBCAT C4

Runoff = 0.12 cfs @ 12.11 hrs, Volume= 467 cf, Depth> 0.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,976	98	Proposed Pavement
	3,961	39	>75% Grass cover, Good, HSG A
	5,937	59	Weighted Average
	3,961		66.72% Pervious Area
	1,976		33.28% Impervious Area

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

Summary for Subcatchment C5: SUBCAT C5

Runoff = 0.10 cfs @ 12.11 hrs, Volume= 379 cf, Depth> 0.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,663	98	Proposed Pavement
	3,462	39	>75% Grass cover, Good, HSG A
	5,125	58	Weighted Average
	3,462		67.55% Pervious Area
	1,663		32.45% Impervious Area

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

Summary for Subcatchment C6: SUBCAT C6

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 742 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,104	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,104	98	Weighted Average
	2,104		100.00% Impervious Area

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

Summary for Subcatchment C7: SUBCAT C7

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 612 cf, Depth> 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,980	98	Proposed Pavement
	489	39	>75% Grass cover, Good, HSG A
	2,469	86	Weighted Average
	489		19.81% Pervious Area
	1,980		80.19% Impervious Area

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

Summary for Subcatchment C8: SUBCAT C8

Runoff = 2.80 cfs @ 12.09 hrs, Volume= 9,183 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	27,832	98	Proposed Pavement
	3,957	39	>75% Grass cover, Good, HSG A
	31,789	91	Weighted Average
	3,957		12.45% Pervious Area
	27,832		87.55% Impervious Area

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

Summary for Subcatchment C9: SUBCAT C9

Runoff = 2.62 cfs @ 12.09 hrs, Volume= 9,433 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	26,576	98	Proposed Pavement
	176	39	>75% Grass cover, Good, HSG A
	26,752	98	Weighted Average
	176		0.66% Pervious Area
	26,576		99.34% Impervious Area

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

Summary for Subcatchment D1: SUBCAT D1

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 2,224 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,306	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	6,306	98	Weighted Average
	6,306		100.00% Impervious Area

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

Summary for Subcatchment D10: SUBCAT D10

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,252 cf, Depth> 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,041	98	Proposed Pavement
	1,238	39	>75% Grass cover, Good, HSG A
	8,279	89	Weighted Average
	1,238		14.95% Pervious Area
	7,041		85.05% Impervious Area

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

Summary for Subcatchment D11: SUBCAT D11

Runoff = 1.47 cfs @ 12.09 hrs, Volume= 4,643 cf, Depth> 2.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	15,866	98	Proposed Pavement
	6,242	39	>75% Grass cover, Good, HSG A
	22,108	81	Weighted Average
	6,242		28.23% Pervious Area
	15,866		71.77% Impervious Area

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

Summary for Subcatchment D12: SUBCAT D12

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 2,412 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,394	98	Proposed Pavement
	956	39	>75% Grass cover, Good, HSG A
	8,350	91	Weighted Average
	956		11.45% Pervious Area
	7,394		88.55% Impervious Area

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

Summary for Subcatchment D2: SUBCAT D2

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 460 cf, Depth> 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	1,422	98	Proposed Pavement
	268	39	>75% Grass cover, Good, HSG A
	1,690	89	Weighted Average
	268		15.86% Pervious Area
	1,422		84.14% Impervious Area

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

Summary for Subcatchment D3: SUBCAT D3

Runoff = 1.40 cfs @ 12.10 hrs, Volume= 4,555 cf, Depth> 1.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	17,650	98	Proposed Pavement
	16,948	39	>75% Grass cover, Good, HSG A
	34,598	69	Weighted Average
	16,948		48.99% Pervious Area
	17,650		51.01% Impervious Area

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

Summary for Subcatchment D4: SUBCAT D4

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 795 cf, Depth> 2.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	2,651	98	Proposed Pavement
	1,006	39	>75% Grass cover, Good, HSG A
	3,657	82	Weighted Average
	1,006		27.51% Pervious Area
	2,651		72.49% Impervious Area

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

Summary for Subcatchment D5: SUBCAT D5

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 1,112 cf, Depth> 2.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,983	98	Proposed Pavement
	2,358	39	>75% Grass cover, Good, HSG A
	6,341	76	Weighted Average
	2,358		37.19% Pervious Area
	3,983		62.81% Impervious Area

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

Summary for Subcatchment D6: SUBCAT D6

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 1,541 cf, Depth> 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,038	98	Proposed Pavement
	1,595	39	>75% Grass cover, Good, HSG A
	6,633	84	Weighted Average
	1,595		24.05% Pervious Area
	5,038		75.95% Impervious Area

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

Summary for Subcatchment D7: SUBCAT D7

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 4,357 cf, Depth> 3.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	13,857	98	Proposed Pavement
	3,183	39	>75% Grass cover, Good, HSG A
	17,040	87	Weighted Average
	3,183		18.68% Pervious Area
	13,857		81.32% Impervious Area

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

Summary for Subcatchment D8: SUBCAT D8

Runoff = 0.65 cfs @ 12.09 hrs, Volume= 2,105 cf, Depth> 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,511	98	Proposed Pavement
	1,229	39	>75% Grass cover, Good, HSG A
	7,740	89	Weighted Average
	1,229		15.88% Pervious Area
	6,511		84.12% Impervious Area

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

Summary for Subcatchment D9: SUBCAT D9

Runoff = 1.54 cfs @ 12.09 hrs, Volume= 4,926 cf, Depth> 3.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	15,659	98	Proposed Pavement
	3,606	39	>75% Grass cover, Good, HSG A
	19,265	87	Weighted Average
	3,606		18.72% Pervious Area
	15,659		81.28% Impervious Area

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

Summary for Subcatchment E1: SUBCAT E1

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 1,829 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	5,394	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	5,639	95	Weighted Average
	245		4.34% Pervious Area
	5,394		95.66% Impervious Area

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

Summary for Subcatchment E10: SUBCAT E10

Runoff = 0.59 cfs @ 12.10 hrs, Volume= 1,878 cf, Depth> 2.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,826	98	Proposed Pavement
	4,302	39	>75% Grass cover, Good, HSG A
	11,128	75	Weighted Average
	4,302		38.66% Pervious Area
	6,826		61.34% Impervious Area

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

Summary for Subcatchment E11: SUBCAT E11

Runoff = 2.18 cfs @ 12.09 hrs, Volume= 7,370 cf, Depth> 3.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	21,962	98	Proposed Pavement
	1,413	39	>75% Grass cover, Good, HSG A
	23,375	94	Weighted Average
	1,413		6.04% Pervious Area
	21,962		93.96% Impervious Area

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

Summary for Subcatchment E12: SUBCAT E12

Runoff = 1.78 cfs @ 12.09 hrs, Volume= 6,109 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	17,915	98	Proposed Pavement
	918	39	>75% Grass cover, Good, HSG A
	18,833	95	Weighted Average
	918		4.87% Pervious Area
	17,915		95.13% Impervious Area

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

Summary for Subcatchment E13: SUBCAT E13

Runoff = 3.36 cfs @ 12.09 hrs, Volume= 11,505 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	33,543	98	Proposed Pavement
	1,924	39	>75% Grass cover, Good, HSG A
	35,467	95	Weighted Average
	1,924		5.42% Pervious Area
	33,543		94.58% Impervious Area

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

Summary for Subcatchment E14: SUBCAT E14

Runoff = 2.70 cfs @ 12.09 hrs, Volume= 9,539 cf, Depth> 4.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	27,291	98	Proposed Pavement
	517	39	>75% Grass cover, Good, HSG A
	27,808	97	Weighted Average
	517		1.86% Pervious Area
	27,291		98.14% Impervious Area

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

Summary for Subcatchment E15: SUBCAT E15

Runoff = 3.14 cfs @ 12.09 hrs, Volume= 11,112 cf, Depth> 4.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,789	98	Proposed Pavement
	603	39	>75% Grass cover, Good, HSG A
	32,392	97	Weighted Average
	603		1.86% Pervious Area
	31,789		98.14% Impervious Area

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

Summary for Subcatchment E16: SUBCAT E16

Runoff = 2.25 cfs @ 12.09 hrs, Volume= 7,136 cf, Depth> 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	23,459	98	Proposed Pavement
	7,262	39	>75% Grass cover, Good, HSG A
	30,721	84	Weighted Average
	7,262		23.64% Pervious Area
	23,459		76.36% Impervious Area

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

Summary for Subcatchment E17: SUBCAT E17

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	30,658	30	Brush, Good, HSG A
	89,860	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	120,518	30	Weighted Average
	120,518		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	55	0.1200	1.73		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	85	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
7.2	190	Total			

Summary for Subcatchment E18: SUBCAT E18

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	11,752	30	Brush, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	11,752	30	Weighted Average
	11,752		100.00% Pervious Area

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

Summary for Subcatchment E19: SUBCAT E19

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	43,151	30	Brush, Good, HSG A
	32,602	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	75,753	30	Weighted Average
	75,753		100.00% Pervious Area

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

Summary for Subcatchment E2: SUBCAT E2

Runoff = 0.65 cfs @ 12.09 hrs, Volume= 2,251 cf, Depth> 4.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,501	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	6,746	96	Weighted Average
	245		3.63% Pervious Area
	6,501		96.37% Impervious Area

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

Summary for Subcatchment E3: SUBCAT E3

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 3,215 cf, Depth> 3.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	9,518	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	10,197	94	Weighted Average
	679		6.66% Pervious Area
	9,518		93.34% Impervious Area

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

Summary for Subcatchment E4: SUBCAT E4

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 3,200 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	9,769	98	Proposed Pavement
	1,309	39	>75% Grass cover, Good, HSG A
	11,078	91	Weighted Average
	1,309		11.82% Pervious Area
	9,769		88.18% Impervious Area

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

Summary for Subcatchment E5: SUBCAT E5

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 1,907 cf, Depth> 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	6,532	98	Proposed Pavement
	3,208	39	>75% Grass cover, Good, HSG A
	9,740	79	Weighted Average
	3,208		32.94% Pervious Area
	6,532		67.06% Impervious Area

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

Summary for Subcatchment E6: SUBCAT E6

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 2,587 cf, Depth> 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	8,885	98	Proposed Pavement
	4,330	39	>75% Grass cover, Good, HSG A
	13,215	79	Weighted Average
	4,330		32.77% Pervious Area
	8,885		67.23% Impervious Area

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

Summary for Subcatchment E7: SUBCAT E7

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 2,788 cf, Depth> 3.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	8,274	98	Proposed Pavement
	826	39	>75% Grass cover, Good, HSG A
	9,100	93	Weighted Average
	826		9.08% Pervious Area
	8,274		90.92% Impervious Area

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

Summary for Subcatchment E8: SUBCAT E8

Runoff = 1.14 cfs @ 12.09 hrs, Volume= 3,778 cf, Depth> 3.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	11,495	98	Proposed Pavement
	1,202	39	>75% Grass cover, Good, HSG A
	12,697	92	Weighted Average
	1,202		9.47% Pervious Area
	11,495		90.53% Impervious Area

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

Summary for Subcatchment E9: SUBCAT E9

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,294 cf, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	3,786	98	Proposed Pavement
	202	39	>75% Grass cover, Good, HSG A
	3,988	95	Weighted Average
	202		5.07% Pervious Area
	3,786		94.93% Impervious Area

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

Summary for Subcatchment G1: SUBCAT G1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	130,014	30	Brush, Good, HSG A
	73,521	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	203,535	30	Weighted Average
	203,535		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.3	214	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.1	36	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0	790	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030 Stream, clean & straight
11.8	1,090	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 0.71 cfs @ 12.45 hrs, Volume= 7,605 cf, Depth> 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 0.28 cfs @ 12.47 hrs, Volume= 4,892 cf, Depth> 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	75,110	61	>75% Grass cover, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	42	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Subcatchment R1: SUBCAT R1

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R10: SUBCAT R10

Runoff = 3.17 cfs @ 12.09 hrs, Volume= 11,425 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	32,400	98	Proposed Building
	32,400		100.00% Impervious Area

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

Summary for Subcatchment R11: SUBCAT R11

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R12: SUBCAT R12

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R13: SUBCAT R13

Runoff = 2.58 cfs @ 12.09 hrs, Volume= 9,283 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R14: SUBCAT R14

Runoff = 2.80 cfs @ 12.09 hrs, Volume= 10,076 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R15: SUBCAT R15

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R16: SUBCAT R16

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R17: SUBCAT R17

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R18: SUBCAT R18

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R2: SUBCAT R2

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R3: SUBCAT R3

Runoff = 5.55 cfs @ 12.09 hrs, Volume= 19,994 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	56,700	98	Proposed Building
	56,700		100.00% Impervious Area

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

Summary for Subcatchment R4: SUBCAT R4

Runoff = 2.58 cfs @ 12.09 hrs, Volume= 9,283 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R5: SUBCAT R5

Runoff = 2.80 cfs @ 12.09 hrs, Volume= 10,076 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R6: SUBCAT R6

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R7: SUBCAT R7

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R8: SUBCAT R8

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 11,108 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R9: SUBCAT R9

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment S1: SUBCAT S1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	816	39	>75% Grass cover, Good, HSG A
	56,296	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	57,112	30	Weighted Average
	57,112		100.00% Pervious Area

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

Summary for Subcatchment S10: SUBCAT S10

Runoff = 0.01 cfs @ 21.76 hrs, Volume= 136 cf, Depth> 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	19,991	30	Brush, Good, HSG A
	70,751	30	Woods, Good, HSG A
*	5,910	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	96,652	34	Weighted Average
	90,742		93.89% Pervious Area
	5,910		6.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
1.5	105	0.0570	1.19		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.8	300	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
12.0	455	Total			

Summary for Subcatchment S11: SUBCAT S11

Runoff = 0.05 cfs @ 13.80 hrs, Volume= 1,234 cf, Depth> 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	38,318	30	Brush, Good, HSG A
	58,186	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	1,378	98	Ex. Pavement
	113,276	40	Weighted Average
	96,504		85.19% Pervious Area
	16,772		14.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	50	0.2400	0.18		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	62	0.1600	2.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.6	215	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
5.9	327	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment S12: SUBCAT S12

Runoff = 0.01 cfs @ 13.62 hrs, Volume= 305 cf, Depth> 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	22,313	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	573	98	Ex. Pavement
*	258	98	Proposed Pavement
	23,144	41	Weighted Average
	22,313		96.41% Pervious Area
	831		3.59% Impervious Area

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

Summary for Subcatchment S13: SUBCAT S13

Runoff = 1.20 cfs @ 12.09 hrs, Volume= 3,971 cf, Depth> 3.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	1,445	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	6,578	98	Ex. Pavement
*	5,325	98	Proposed Pavement
	13,348	92	Weighted Average
	1,445		10.83% Pervious Area
	11,903		89.17% Impervious Area

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

Summary for Subcatchment S14: SUBCAT S14

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 3,415 cf, Depth> 3.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	1,350	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	4,039	98	Ex. Pavement
*	6,431	98	Proposed Pavement
	11,820	91	Weighted Average
	1,350		11.42% Pervious Area
	10,470		88.58% Impervious Area

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

Summary for Subcatchment S2: SUBCAT S2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	4,954	30	Brush, Good, HSG A
	66,769	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,723	30	Weighted Average
	71,723		100.00% Pervious Area

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

Summary for Subcatchment S3: SUBCAT S3

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	76,797	30	Brush, Good, HSG A
	24,152	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	100,949	30	Weighted Average
	100,949		100.00% Pervious Area

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

Summary for Subcatchment S4: SUBCAT S4

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	61,547	30	Brush, Good, HSG A
	151,359	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	212,906	30	Weighted Average
	212,906		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment S5: SUBCAT S5

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	46,285	30	Brush, Good, HSG A
	6,361	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	52,646	30	Weighted Average
	52,646		100.00% Pervious Area

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

Summary for Subcatchment S6: SUBCAT S6

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	68,947	30	Brush, Good, HSG A
	2,803	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,750	30	Weighted Average
	71,750		100.00% Pervious Area

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

Summary for Subcatchment S8: SUBCAT S8

Runoff = 0.04 cfs @ 17.34 hrs, Volume= 1,079 cf, Depth> 0.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-YR Rainfall=4.47"

	Area (sf)	CN	Description
	100,530	30	Brush, Good, HSG A
	310,010	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
*	2,426	98	Proposed Building
	446,502	35	Weighted Average
	410,540		91.95% Pervious Area
	35,962		8.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.4000	0.22		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
5.0	353	0.0560	1.18		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
4.7	1,850	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
13.6	2,253	Total			

Summary for Reach ER4: EX REACH 4

Inflow Area = 436,607 sf, 5.39% Impervious, Inflow Depth > 0.04" for 10-YR event
Inflow = 0.04 cfs @ 15.10 hrs, Volume= 1,329 cf
Outflow = 0.04 cfs @ 16.63 hrs, Volume= 1,225 cf, Atten= 9%, Lag= 91.7 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.31 fps, Min. Travel Time= 68.5 min
Avg. Velocity = 0.31 fps, Avg. Travel Time= 68.5 min

Peak Storage= 165 cf @ 16.63 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'

‡

Summary for Reach ER5: EX REACH 5

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth > 0.01" for 10-YR event
Inflow = 0.08 cfs @ 17.13 hrs, Volume= 2,304 cf
Outflow = 0.07 cfs @ 18.07 hrs, Volume= 2,119 cf, Atten= 5%, Lag= 56.5 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.34 fps, Min. Travel Time= 52.5 min
Avg. Velocity = 0.34 fps, Avg. Travel Time= 52.5 min

Peak Storage= 226 cf @ 18.07 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

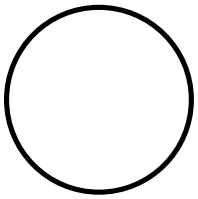
Summary for Reach RG: REACH G

Inflow Area = 203,535 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 6.43 cfs

12.0" Round Pipe
n= 0.012
Length= 180.0' Slope= 0.0278 '/'
Inlet Invert= 155.00', Outlet Invert= 150.00'



Summary for Reach W1: WETLAND REACH 1

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 177.62 cfs

25.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 420.0' Slope= 0.0190 '/'
Inlet Invert= 152.00', Outlet Invert= 144.00'

‡

Summary for Reach W2: WETLAND REACH 2

Inflow Area = 339,955 sf, 5.18% Impervious, Inflow Depth > 0.04" for 10-YR event
Inflow = 0.05 cfs @ 13.80 hrs, Volume= 1,234 cf
Outflow = 0.04 cfs @ 15.10 hrs, Volume= 1,193 cf, Atten= 4%, Lag= 78.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.21 fps, Min. Travel Time= 38.2 min
Avg. Velocity = 0.21 fps, Avg. Travel Time= 38.2 min

Peak Storage= 101 cf @ 15.10 hrs
Average Depth at Peak Storage= 0.01'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 117.48 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 480.0' Slope= 0.0083 '/'
Inlet Invert= 144.00', Outlet Invert= 140.00'

‡

Summary for Pond CA1: CB-A1

Inflow Area = 10,307 sf, 82.48% Impervious, Inflow Depth > 3.22" for 10-YR event
Inflow = 0.80 cfs @ 12.09 hrs, Volume= 2,767 cf
Outflow = 0.80 cfs @ 12.09 hrs, Volume= 2,767 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 12.09 hrs, Volume= 2,767 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.20' @ 12.09 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.74'	**12.0" Round Culvert** L= 83.0' Ke= 0.500 Inlet / Outlet Invert= 155.74' / 154.91' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.76 cfs @ 12.09 hrs HW=156.19' TW=155.41' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.76 cfs @ 3.25 fps)

Summary for Pond CA2: CB-A2

Inflow Area = 5,412 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.53 cfs @ 12.09 hrs, Volume= 1,908 cf
Outflow = 0.53 cfs @ 12.09 hrs, Volume= 1,908 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.09 hrs, Volume= 1,908 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.62' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.25'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 156.25' / 155.84' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.50 cfs @ 12.09 hrs HW=156.62' TW=156.19' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.50 cfs @ 2.81 fps)

Summary for Pond CA3: CB-A3

Inflow Area = 37,673 sf, 89.92% Impervious, Inflow Depth > 3.59" for 10-YR event
Inflow = 3.39 cfs @ 12.09 hrs, Volume= 11,265 cf
Outflow = 3.39 cfs @ 12.09 hrs, Volume= 11,265 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.39 cfs @ 12.09 hrs, Volume= 11,265 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.89' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.93'	**18.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 153.93' / 153.09' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.31 cfs @ 12.09 hrs HW=154.87' TW=153.69' (Dynamic Tailwater)
1=Culvert (Barrel Controls 3.31 cfs @ 4.03 fps)

Summary for Pond CA4: CB-A4

Inflow Area = 6,616 sf, 89.62% Impervious, Inflow Depth > 3.57" for 10-YR event
Inflow = 0.59 cfs @ 12.09 hrs, Volume= 1,968 cf
Outflow = 0.59 cfs @ 12.09 hrs, Volume= 1,968 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.59 cfs @ 12.09 hrs, Volume= 1,968 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.33' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.93'	**12.0" Round Culvert** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 154.93' / 154.43' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=155.33' TW=154.87' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.55 cfs @ 2.79 fps)

Summary for Pond CC1: CB-C1

Inflow Area = 6,254 sf, 34.70% Impervious, Inflow Depth > 0.94" for 10-YR event
Inflow = 0.13 cfs @ 12.11 hrs, Volume= 492 cf
Outflow = 0.13 cfs @ 12.11 hrs, Volume= 492 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.13 cfs @ 12.11 hrs, Volume= 492 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.49' @ 12.13 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.09' S= 0.0048 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.11 hrs HW=159.48' TW=159.38' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.12 cfs @ 1.26 fps)

Summary for Pond CC10: CB-C10

Inflow Area = 177,794 sf, 87.97% Impervious, Inflow Depth > 3.48" for 10-YR event
Inflow = 15.32 cfs @ 12.09 hrs, Volume= 51,594 cf
Outflow = 15.32 cfs @ 12.09 hrs, Volume= 51,594 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.32 cfs @ 12.09 hrs, Volume= 51,594 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.47' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.48'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 151.48' / 150.63' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.77 cfs @ 12.09 hrs HW=153.42' TW=152.53' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 13.77 cfs @ 4.64 fps)

Summary for Pond CC11: CB-C11

Inflow Area = 6,044 sf, 71.33% Impervious, Inflow Depth > 2.52" for 10-YR event
Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,269 cf
Outflow = 0.40 cfs @ 12.09 hrs, Volume= 1,269 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.09 hrs, Volume= 1,269 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.06' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.15' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=156.06' TW=149.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.39 cfs @ 1.90 fps)

Summary for Pond CC12: CB-C12

Inflow Area = 107,687 sf, 82.94% Impervious, Inflow Depth > 3.21" for 10-YR event
Inflow = 8.68 cfs @ 12.09 hrs, Volume= 28,840 cf
Outflow = 8.68 cfs @ 12.09 hrs, Volume= 28,840 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.68 cfs @ 12.09 hrs, Volume= 28,840 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.23' @ 12.09 hrs
Flood Elev= 158.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.70'	**24.0" Round Culvert** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 147.70' / 147.35' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.47 cfs @ 12.09 hrs HW=149.20' TW=148.14' (Dynamic Tailwater)
1=Culvert (Barrel Controls 8.47 cfs @ 4.64 fps)

Summary for Pond CC13: CB-C13

Inflow Area = 3,872 sf, 77.27% Impervious, Inflow Depth > 2.88" for 10-YR event
Inflow = 0.29 cfs @ 12.09 hrs, Volume= 929 cf
Outflow = 0.29 cfs @ 12.09 hrs, Volume= 929 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.29 cfs @ 12.09 hrs, Volume= 929 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.02' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=156.01' TW=150.08' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.29 cfs @ 1.74 fps)

Summary for Pond CC14: CB-C14

Inflow Area = 93,302 sf, 84.26% Impervious, Inflow Depth > 3.30" for 10-YR event
Inflow = 7.67 cfs @ 12.09 hrs, Volume= 25,633 cf
Outflow = 7.67 cfs @ 12.09 hrs, Volume= 25,633 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.67 cfs @ 12.09 hrs, Volume= 25,633 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.10' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	148.66'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 148.66' / 147.80' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.01 cfs @ 12.09 hrs HW=150.07' TW=149.20' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 7.01 cfs @ 4.15 fps)

Summary for Pond CC15: CB-C15

Inflow Area = 3,872 sf, 81.40% Impervious, Inflow Depth > 3.07" for 10-YR event
Inflow = 0.31 cfs @ 12.09 hrs, Volume= 990 cf
Outflow = 0.31 cfs @ 12.09 hrs, Volume= 990 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.09 hrs, Volume= 990 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.02' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.09 hrs HW=156.02' TW=150.94' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.30 cfs @ 1.77 fps)

Summary for Pond CC16: CB-C16

Inflow Area = 86,438 sf, 84.03% Impervious, Inflow Depth > 3.28" for 10-YR event
Inflow = 7.08 cfs @ 12.09 hrs, Volume= 23,649 cf
Outflow = 7.08 cfs @ 12.09 hrs, Volume= 23,649 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.08 cfs @ 12.09 hrs, Volume= 23,649 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.97' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.62'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 149.62' / 148.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.34 cfs @ 12.09 hrs HW=150.94' TW=150.07' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.34 cfs @ 4.09 fps)

Summary for Pond CC17: CB-C17

Inflow Area = 151,042 sf, 86.68% Impervious, Inflow Depth > 3.41" for 10-YR event
Inflow = 12.79 cfs @ 12.09 hrs, Volume= 42,917 cf
Outflow = 12.79 cfs @ 12.09 hrs, Volume= 42,917 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.79 cfs @ 12.09 hrs, Volume= 42,917 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.20' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.40'	**30.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 152.40' / 151.58' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=10.82 cfs @ 12.09 hrs HW=154.15' TW=153.42' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.82 cfs @ 4.13 fps)

Summary for Pond CC18: CB-C18

Inflow Area = 125,536 sf, 84.98% Impervious, Inflow Depth > 3.31" for 10-YR event
Inflow = 10.37 cfs @ 12.09 hrs, Volume= 34,643 cf
Outflow = 10.37 cfs @ 12.09 hrs, Volume= 34,643 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.37 cfs @ 12.09 hrs, Volume= 34,643 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.92' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.34'	**30.0" Round Culvert** L= 168.0' Ke= 0.500 Inlet / Outlet Invert= 153.34' / 152.50' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=8.91 cfs @ 12.09 hrs HW=154.88' TW=154.15' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 8.91 cfs @ 4.01 fps)

Summary for Pond CC19: CB-C19

Inflow Area = 98,449 sf, 81.01% Impervious, Inflow Depth > 3.06" for 10-YR event
Inflow = 7.72 cfs @ 12.09 hrs, Volume= 25,092 cf
Outflow = 7.72 cfs @ 12.09 hrs, Volume= 25,092 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.72 cfs @ 12.09 hrs, Volume= 25,092 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.09' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.75'	**24.0" Round Culvert** L= 181.0' Ke= 0.500 Inlet / Outlet Invert= 154.75' / 153.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.39 cfs @ 12.09 hrs HW=156.08' TW=154.89' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 7.39 cfs @ 4.73 fps)

Summary for Pond CC2: CB-C2

Inflow Area = 10,503 sf, 53.18% Impervious, Inflow Depth > 1.77" for 10-YR event
Inflow = 0.46 cfs @ 12.10 hrs, Volume= 1,545 cf
Outflow = 0.46 cfs @ 12.10 hrs, Volume= 1,545 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.10 hrs, Volume= 1,545 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.38' @ 12.11 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.99'	**12.0" Round Culvert** L= 56.0' Ke= 0.500 Inlet / Outlet Invert= 158.99' / 158.71' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.10 hrs HW=159.38' TW=159.07' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.42 cfs @ 2.21 fps)

Summary for Pond CC20: CB-C20

Inflow Area = 79,574 sf, 83.55% Impervious, Inflow Depth > 3.26" for 10-YR event
Inflow = 6.48 cfs @ 12.09 hrs, Volume= 21,604 cf
Outflow = 6.48 cfs @ 12.09 hrs, Volume= 21,604 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.48 cfs @ 12.09 hrs, Volume= 21,604 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.84' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.57'	**24.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 150.57' / 149.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.86 cfs @ 12.09 hrs HW=151.82' TW=150.94' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.86 cfs @ 4.07 fps)

Summary for Pond CC21: CB-C21

Inflow Area = 3,610 sf, 79.03% Impervious, Inflow Depth > 2.97" for 10-YR event
Inflow = 0.28 cfs @ 12.09 hrs, Volume= 894 cf
Outflow = 0.28 cfs @ 12.09 hrs, Volume= 894 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.09 hrs, Volume= 894 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.01' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=156.01' TW=151.82' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.27 cfs @ 1.72 fps)

Summary for Pond CC22: CB-C22

Inflow Area = 3,940 sf, 77.16% Impervious, Inflow Depth > 2.88" for 10-YR event
Inflow = 0.30 cfs @ 12.09 hrs, Volume= 945 cf
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 945 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.09 hrs, Volume= 945 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.02' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=156.01' TW=152.72' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.29 cfs @ 1.75 fps)

Summary for Pond CC23: CB-C23

Inflow Area = 72,272 sf, 83.88% Impervious, Inflow Depth > 3.28" for 10-YR event
Inflow = 5.90 cfs @ 12.09 hrs, Volume= 19,766 cf
Outflow = 5.90 cfs @ 12.09 hrs, Volume= 19,766 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.90 cfs @ 12.09 hrs, Volume= 19,766 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.74' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.54'	**24.0" Round Culvert** L= 173.0' Ke= 0.500 Inlet / Outlet Invert= 151.54' / 150.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.38 cfs @ 12.09 hrs HW=152.71' TW=151.82' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 5.38 cfs @ 4.03 fps)

Summary for Pond CC24: CB-C24

Inflow Area = 21,488 sf, 69.19% Impervious, Inflow Depth > 2.52" for 10-YR event
Inflow = 1.34 cfs @ 12.09 hrs, Volume= 4,510 cf
Outflow = 1.34 cfs @ 12.09 hrs, Volume= 4,510 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.34 cfs @ 12.09 hrs, Volume= 4,510 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.42' @ 12.09 hrs
Flood Elev= 159.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.81'	**12.0" Round Culvert** L= 42.0' Ke= 0.500 Inlet / Outlet Invert= 154.81' / 153.59' S= 0.0290 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=155.42' TW=153.69' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 1.32 cfs @ 2.65 fps)

Summary for Pond CC25: CB-C25

Inflow Area = 64,908 sf, 83.95% Impervious, Inflow Depth > 3.29" for 10-YR event
Inflow = 5.30 cfs @ 12.09 hrs, Volume= 17,801 cf
Outflow = 5.30 cfs @ 12.09 hrs, Volume= 17,801 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.30 cfs @ 12.09 hrs, Volume= 17,801 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.71' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.59'	**24.0" Round Culvert** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 152.59' / 151.64' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.88 cfs @ 12.09 hrs HW=153.69' TW=152.71' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.88 cfs @ 4.00 fps)

Summary for Pond CC26: CB-C26

Inflow Area = 10,538 sf, 83.28% Impervious, Inflow Depth > 3.24" for 10-YR event
Inflow = 0.84 cfs @ 12.09 hrs, Volume= 2,848 cf
Outflow = 0.84 cfs @ 12.09 hrs, Volume= 2,848 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.84 cfs @ 12.09 hrs, Volume= 2,848 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.63' @ 12.09 hrs
Flood Elev= 163.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.16'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 158.16' / 157.24' S= 0.0224 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=158.62' TW=157.75' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.82 cfs @ 2.32 fps)

Summary for Pond CC27: CB-C27

Inflow Area = 46,327 sf, 80.53% Impervious, Inflow Depth > 3.01" for 10-YR event
Inflow = 3.56 cfs @ 12.09 hrs, Volume= 11,610 cf
Outflow = 3.56 cfs @ 12.09 hrs, Volume= 11,610 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.56 cfs @ 12.09 hrs, Volume= 11,610 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.48' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.45'	**18.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 157.45' / 156.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.31 cfs @ 12.09 hrs HW=158.46' TW=157.75' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 3.31 cfs @ 3.69 fps)

Summary for Pond CC28: CB-C28

Inflow Area = 38,084 sf, 78.73% Impervious, Inflow Depth > 2.91" for 10-YR event
Inflow = 2.83 cfs @ 12.09 hrs, Volume= 9,229 cf
Outflow = 2.83 cfs @ 12.09 hrs, Volume= 9,229 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.83 cfs @ 12.09 hrs, Volume= 9,229 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.17' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.20'	**15.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 158.20' / 157.70' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.68 cfs @ 12.09 hrs HW=159.16' TW=158.46' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 2.68 cfs @ 3.68 fps)

Summary for Pond CC29: CB-C29

Inflow Area = 8,005 sf, 80.45% Impervious, Inflow Depth > 3.11" for 10-YR event
Inflow = 0.61 cfs @ 12.09 hrs, Volume= 2,072 cf
Outflow = 0.61 cfs @ 12.09 hrs, Volume= 2,072 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 12.09 hrs, Volume= 2,072 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.19' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.80'	**12.0" Round Culvert** L= 77.0' Ke= 0.500 Inlet / Outlet Invert= 159.80' / 158.26' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=160.19' TW=158.62' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.60 cfs @ 2.12 fps)

Summary for Pond CC3: CB-C3

Inflow Area = 11,812 sf, 56.98% Impervious, Inflow Depth > 1.95" for 10-YR event
Inflow = 0.57 cfs @ 12.09 hrs, Volume= 1,923 cf
Outflow = 0.57 cfs @ 12.09 hrs, Volume= 1,923 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.09 hrs, Volume= 1,923 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.08' @ 12.11 hrs
Flood Elev= 163.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.61'	**12.0" Round Culvert** L= 75.0' Ke= 0.500 Inlet / Outlet Invert= 158.61' / 158.24' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.09 hrs HW=159.07' TW=158.74' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.53 cfs @ 2.22 fps)

Summary for Pond CC30: CB-C30

Inflow Area = 3,220 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,135 cf
Outflow = 0.32 cfs @ 12.09 hrs, Volume= 1,135 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.09 hrs, Volume= 1,135 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.70' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.42'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 160.42' / 159.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.09 hrs HW=160.69' TW=160.19' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.31 cfs @ 1.78 fps)

Summary for Pond CC31: CB-C31

Inflow Area = 28,995 sf, 76.60% Impervious, Inflow Depth > 2.80" for 10-YR event
Inflow = 2.07 cfs @ 12.09 hrs, Volume= 6,756 cf
Outflow = 2.07 cfs @ 12.09 hrs, Volume= 6,756 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.07 cfs @ 12.09 hrs, Volume= 6,756 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.81' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.96'	**15.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 158.96' / 158.30' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.91 cfs @ 12.09 hrs HW=159.79' TW=159.16' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 1.91 cfs @ 3.13 fps)

Summary for Pond CC32: CB-C32

Inflow Area = 10,841 sf, 58.84% Impervious, Inflow Depth > 1.76" for 10-YR event
Inflow = 0.49 cfs @ 12.10 hrs, Volume= 1,591 cf
Outflow = 0.49 cfs @ 12.10 hrs, Volume= 1,591 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.10 hrs, Volume= 1,591 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.65' @ 12.10 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.75' S= 0.0292 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.10 hrs HW=161.65' TW=160.32' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.49 cfs @ 2.01 fps)

Summary for Pond CC33: CB-C33

Inflow Area = 6,131 sf, 52.05% Impervious, Inflow Depth > 1.31" for 10-YR event
Inflow = 0.20 cfs @ 12.10 hrs, Volume= 669 cf
Outflow = 0.20 cfs @ 12.10 hrs, Volume= 669 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.10 hrs, Volume= 669 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 162.37' @ 12.10 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	162.15'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 162.15' / 161.40' S= 0.0288 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.10 hrs HW=162.37' TW=161.65' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.20 cfs @ 1.58 fps)

Summary for Pond CC34: CB-C34

Inflow Area = 19,633 sf, 71.85% Impervious, Inflow Depth > 2.53" for 10-YR event
Inflow = 1.26 cfs @ 12.09 hrs, Volume= 4,131 cf
Outflow = 1.26 cfs @ 12.09 hrs, Volume= 4,131 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.26 cfs @ 12.09 hrs, Volume= 4,131 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.32' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.65'	**12.0" Round Culvert** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 159.65' / 159.21' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.16 cfs @ 12.09 hrs HW=160.31' TW=159.79' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.16 cfs @ 2.95 fps)

Summary for Pond CC35: CB-C35

Inflow Area = 18,828 sf, 50.64% Impervious, Inflow Depth > 1.51" for 10-YR event
Inflow = 0.71 cfs @ 12.10 hrs, Volume= 2,372 cf
Outflow = 0.71 cfs @ 12.10 hrs, Volume= 2,372 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.10 hrs, Volume= 2,372 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.41' @ 12.10 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.98'	**12.0" Round Culvert** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 158.98' / 156.25' S= 0.0303 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.71 cfs @ 12.10 hrs HW=159.41' TW=156.64' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.71 cfs @ 2.22 fps)

Summary for Pond CC36: CB-C36

Inflow Area = 4,686 sf, 33.91% Impervious, Inflow Depth > 0.63" for 10-YR event
Inflow = 0.05 cfs @ 12.13 hrs, Volume= 245 cf
Outflow = 0.05 cfs @ 12.13 hrs, Volume= 245 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.05 cfs @ 12.13 hrs, Volume= 245 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.25' @ 12.13 hrs
Flood Elev= 163.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.15'	**12.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 160.15' / 159.08' S= 0.0267 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.05 cfs @ 12.13 hrs HW=160.25' TW=159.39' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.05 cfs @ 1.10 fps)

Summary for Pond CC37: CB-C37

Inflow Area = 10,601 sf, 53.01% Impervious, Inflow Depth > 1.65" for 10-YR event
Inflow = 0.45 cfs @ 12.10 hrs, Volume= 1,458 cf
Outflow = 0.45 cfs @ 12.10 hrs, Volume= 1,458 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.10 hrs, Volume= 1,458 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.64' @ 12.11 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 34.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.08' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.10 hrs HW=159.64' TW=159.40' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.42 cfs @ 2.21 fps)

Summary for Pond CC38: CB-C38

Inflow Area = 6,400 sf, 79.30% Impervious, Inflow Depth > 2.97" for 10-YR event
Inflow = 0.50 cfs @ 12.09 hrs, Volume= 1,586 cf
Outflow = 0.50 cfs @ 12.09 hrs, Volume= 1,586 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.09 hrs, Volume= 1,586 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.65' @ 12.09 hrs
Flood Elev= 164.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 120.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.15' S= 0.0179 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=161.65' TW=159.52' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.49 cfs @ 2.01 fps)

Summary for Pond CC4: CB-C4

Inflow Area = 5,937 sf, 33.28% Impervious, Inflow Depth > 0.94" for 10-YR event
Inflow = 0.12 cfs @ 12.11 hrs, Volume= 467 cf
Outflow = 0.12 cfs @ 12.11 hrs, Volume= 467 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.11 hrs, Volume= 467 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.68' @ 12.12 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.50'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.50' / 157.24' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.11 hrs HW=157.68' TW=157.41' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.12 cfs @ 1.93 fps)

Summary for Pond CC5: CB-C5

Inflow Area = 5,125 sf, 32.45% Impervious, Inflow Depth > 0.89" for 10-YR event
Inflow = 0.10 cfs @ 12.11 hrs, Volume= 379 cf
Outflow = 0.10 cfs @ 12.11 hrs, Volume= 379 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.10 cfs @ 12.11 hrs, Volume= 379 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.60' @ 12.11 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.45'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 159.45' / 159.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.10 cfs @ 12.11 hrs HW=159.60' TW=156.81' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.10 cfs @ 1.94 fps)

Summary for Pond CC6: CB-C6

Inflow Area = 15,635 sf, 49.40% Impervious, Inflow Depth > 1.69" for 10-YR event
Inflow = 0.62 cfs @ 12.10 hrs, Volume= 2,200 cf
Outflow = 0.62 cfs @ 12.10 hrs, Volume= 2,200 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.10 hrs, Volume= 2,200 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.81' @ 12.10 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.42'	**12.0" Round Culvert** L= 73.0' Ke= 0.500 Inlet / Outlet Invert= 156.42' / 155.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.10 hrs HW=156.81' TW=148.16' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.61 cfs @ 2.13 fps)

Summary for Pond CC7: CB-C7

Inflow Area = 8,406 sf, 47.06% Impervious, Inflow Depth > 1.54" for 10-YR event
Inflow = 0.31 cfs @ 12.10 hrs, Volume= 1,079 cf
Outflow = 0.31 cfs @ 12.10 hrs, Volume= 1,079 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.10 hrs, Volume= 1,079 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.42' @ 12.10 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.14'	**12.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 157.14' / 156.52' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.10 hrs HW=157.42' TW=156.81' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.31 cfs @ 2.61 fps)

Summary for Pond CC8: CB-C8

Inflow Area = 236,335 sf, 89.20% Impervious, Inflow Depth > 3.56" for 10-YR event
Inflow = 20.74 cfs @ 12.09 hrs, Volume= 70,211 cf
Outflow = 20.74 cfs @ 12.09 hrs, Volume= 70,211 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.74 cfs @ 12.09 hrs, Volume= 70,211 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.28' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.18'	**36.0" Round Culvert** L= 85.0' Ke= 0.500 Inlet / Outlet Invert= 149.18' / 148.75' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=20.21 cfs @ 12.09 hrs HW=151.24' TW=148.14' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 20.21 cfs @ 5.50 fps)

Summary for Pond CC9: CB-C9

Inflow Area = 204,546 sf, 89.45% Impervious, Inflow Depth > 3.58" for 10-YR event
Inflow = 17.94 cfs @ 12.09 hrs, Volume= 61,028 cf
Outflow = 17.94 cfs @ 12.09 hrs, Volume= 61,028 cf, Atten= 0%, Lag= 0.0 min
Primary = 17.94 cfs @ 12.09 hrs, Volume= 61,028 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.55' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.53'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 150.53' / 149.68' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=17.05 cfs @ 12.09 hrs HW=152.52' TW=151.24' (Dynamic Tailwater)
1=Culvert (Outlet Controls 17.05 cfs @ 5.56 fps)

Summary for Pond CD1: CB-D1

Inflow Area = 6,306 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.62 cfs @ 12.09 hrs, Volume= 2,224 cf
Outflow = 0.62 cfs @ 12.09 hrs, Volume= 2,224 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.09 hrs, Volume= 2,224 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.49' @ 12.09 hrs
Flood Elev= 162.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 144.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 158.33' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=159.49' TW=158.67' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.60 cfs @ 2.68 fps)

Summary for Pond CD10: CB-D10

Inflow Area = 8,279 sf, 85.05% Impervious, Inflow Depth > 3.26" for 10-YR event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,252 cf
Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,252 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,252 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.17' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.12' S= 0.0300 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=159.17' TW=155.55' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.68 cfs @ 2.20 fps)

Summary for Pond CD11: CB-D11

Inflow Area = 153,819 sf, 71.58% Impervious, Inflow Depth > 2.60" for 10-YR event
Inflow = 10.26 cfs @ 12.09 hrs, Volume= 33,305 cf
Outflow = 10.26 cfs @ 12.09 hrs, Volume= 33,305 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.26 cfs @ 12.09 hrs, Volume= 33,305 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.99' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.52'	**24.0" Round Culvert** L= 264.0' Ke= 0.500 Inlet / Outlet Invert= 153.52' / 150.00' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=10.06 cfs @ 12.09 hrs HW=154.98' TW=143.32' (Dynamic Tailwater)
1=Culvert (Inlet Controls 10.06 cfs @ 4.11 fps)

Summary for Pond CD12: CB-D12

Inflow Area = 20,162 sf, 70.06% Impervious, Inflow Depth > 2.58" for 10-YR event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 4,335 cf
Outflow = 1.31 cfs @ 12.09 hrs, Volume= 4,335 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.09 hrs, Volume= 4,335 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.74' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.14'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.14' / 154.52' S= 0.0299 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=158.74' TW=154.97' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.28 cfs @ 2.63 fps)

Summary for Pond CD2: CB-D2

Inflow Area = 7,996 sf, 96.65% Impervious, Inflow Depth > 4.03" for 10-YR event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 2,683 cf
Outflow = 0.76 cfs @ 12.09 hrs, Volume= 2,683 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.76 cfs @ 12.09 hrs, Volume= 2,683 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.67' @ 12.09 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.23'	**12.0" Round Culvert** L= 91.0' Ke= 0.500 Inlet / Outlet Invert= 158.23' / 156.51' S= 0.0189 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=158.67' TW=156.93' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.74 cfs @ 2.25 fps)

Summary for Pond CD3: CB-D3

Inflow Area = 34,598 sf, 51.01% Impervious, Inflow Depth > 1.58" for 10-YR event
Inflow = 1.40 cfs @ 12.10 hrs, Volume= 4,555 cf
Outflow = 1.40 cfs @ 12.10 hrs, Volume= 4,555 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.40 cfs @ 12.10 hrs, Volume= 4,555 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.48' @ 12.10 hrs
Flood Elev= 160.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**12.0" Round Culvert** L= 48.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.51' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.39 cfs @ 12.10 hrs HW=157.48' TW=156.94' (Dynamic Tailwater)
1=Culvert (Barrel Controls 1.39 cfs @ 3.17 fps)

Summary for Pond CD4: CB-D4

Inflow Area = 59,225 sf, 62.56% Impervious, Inflow Depth > 2.17" for 10-YR event
Inflow = 3.24 cfs @ 12.09 hrs, Volume= 10,686 cf
Outflow = 3.24 cfs @ 12.09 hrs, Volume= 10,686 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.24 cfs @ 12.09 hrs, Volume= 10,686 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.94' @ 12.10 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.01'	**18.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 156.01' / 155.19' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.14 cfs @ 12.09 hrs HW=156.94' TW=155.92' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 3.14 cfs @ 3.93 fps)

Summary for Pond CD5: CB-D5

Inflow Area = 12,974 sf, 69.53% Impervious, Inflow Depth > 2.45" for 10-YR event
Inflow = 0.84 cfs @ 12.09 hrs, Volume= 2,652 cf
Outflow = 0.84 cfs @ 12.09 hrs, Volume= 2,652 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.84 cfs @ 12.09 hrs, Volume= 2,652 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.22' @ 12.09 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.51' S= 0.0477 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=158.21' TW=156.93' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.82 cfs @ 2.31 fps)

Summary for Pond CD6: CB-D6

Inflow Area = 6,633 sf, 75.95% Impervious, Inflow Depth > 2.79" for 10-YR event
Inflow = 0.49 cfs @ 12.09 hrs, Volume= 1,541 cf
Outflow = 0.49 cfs @ 12.09 hrs, Volume= 1,541 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.09 hrs, Volume= 1,541 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.55' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.18'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 158.18' / 157.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=158.54' TW=158.21' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.45 cfs @ 2.61 fps)

Summary for Pond CD7: CB-D7

Inflow Area = 84,005 sf, 68.35% Impervious, Inflow Depth > 2.45" for 10-YR event
Inflow = 5.25 cfs @ 12.09 hrs, Volume= 17,148 cf
Outflow = 5.25 cfs @ 12.09 hrs, Volume= 17,148 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.25 cfs @ 12.09 hrs, Volume= 17,148 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.95' @ 12.12 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.69'	**24.0" Round Culvert** L= 93.0' Ke= 0.500 Inlet / Outlet Invert= 154.69' / 154.22' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.18 cfs @ 12.09 hrs HW=155.91' TW=155.56' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.18 cfs @ 2.98 fps)

Summary for Pond CD8: CB-D8

Inflow Area = 7,740 sf, 84.12% Impervious, Inflow Depth > 3.26" for 10-YR event
Inflow = 0.65 cfs @ 12.09 hrs, Volume= 2,105 cf
Outflow = 0.65 cfs @ 12.09 hrs, Volume= 2,105 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.65 cfs @ 12.09 hrs, Volume= 2,105 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.16' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.69' S= 0.0253 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.64 cfs @ 12.09 hrs HW=159.15' TW=155.90' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.64 cfs @ 2.16 fps)

Summary for Pond CD9: CB-D9

Inflow Area = 111,549 sf, 71.82% Impervious, Inflow Depth > 2.62" for 10-YR event
Inflow = 7.48 cfs @ 12.09 hrs, Volume= 24,327 cf
Outflow = 7.48 cfs @ 12.09 hrs, Volume= 24,327 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.48 cfs @ 12.09 hrs, Volume= 24,327 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.59' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.12'	**24.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 154.12' / 153.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.67 cfs @ 12.09 hrs HW=155.56' TW=154.98' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.67 cfs @ 3.87 fps)

Summary for Pond CE1: CB-E1

Inflow Area = 5,639 sf, 95.66% Impervious, Inflow Depth > 3.89" for 10-YR event
Inflow = 0.53 cfs @ 12.09 hrs, Volume= 1,829 cf
Outflow = 0.53 cfs @ 12.09 hrs, Volume= 1,829 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.09 hrs, Volume= 1,829 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.22' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.85'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.85' / 154.17' S= 0.0661 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=161.21' TW=154.46' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.52 cfs @ 2.04 fps)

Summary for Pond CE10: CB-E10

Inflow Area = 263,128 sf, 98.37% Impervious, Inflow Depth > 4.14" for 10-YR event
Inflow = 25.26 cfs @ 12.09 hrs, Volume= 90,739 cf
Outflow = 25.26 cfs @ 12.09 hrs, Volume= 90,739 cf, Atten= 0%, Lag= 0.0 min
Primary = 25.26 cfs @ 12.09 hrs, Volume= 90,739 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.23' @ 12.33 hrs
Flood Elev= 159.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.52'	**42.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 150.52' / 150.31' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=17.39 cfs @ 12.09 hrs HW=152.83' TW=152.48' (Dynamic Tailwater)
1=Culvert (Outlet Controls 17.39 cfs @ 3.66 fps)

Summary for Pond CE11: CB-E11

Inflow Area = 187,424 sf, 88.30% Impervious, Inflow Depth > 3.53" for 10-YR event
Inflow = 16.12 cfs @ 12.09 hrs, Volume= 55,142 cf
Outflow = 16.12 cfs @ 12.09 hrs, Volume= 55,142 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.12 cfs @ 12.09 hrs, Volume= 55,142 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.26' @ 12.32 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.93'	**30.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 150.93' / 150.41' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.71 cfs @ 12.09 hrs HW=152.96' TW=152.49' (Dynamic Tailwater)
1=Culvert (Outlet Controls 11.71 cfs @ 3.73 fps)

Summary for Pond CE12: CB-E12

Inflow Area = 164,049 sf, 87.49% Impervious, Inflow Depth > 3.49" for 10-YR event
Inflow = 13.94 cfs @ 12.09 hrs, Volume= 47,773 cf
Outflow = 13.94 cfs @ 12.09 hrs, Volume= 47,773 cf, Atten= 0%, Lag= 0.0 min
Primary = 13.94 cfs @ 12.09 hrs, Volume= 47,773 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.62' @ 12.12 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.66'	**30.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 151.66' / 151.03' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.45 cfs @ 12.09 hrs HW=153.55' TW=152.96' (Dynamic Tailwater)
1=Culvert (Outlet Controls 11.45 cfs @ 3.97 fps)

Summary for Pond CE13: CB-E13

Inflow Area = 145,216 sf, 86.50% Impervious, Inflow Depth > 3.44" for 10-YR event
Inflow = 12.15 cfs @ 12.09 hrs, Volume= 41,664 cf
Outflow = 12.15 cfs @ 12.09 hrs, Volume= 41,664 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.15 cfs @ 12.09 hrs, Volume= 41,664 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.32' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.57'	**30.0" Round Culvert** L= 161.0' Ke= 0.500 Inlet / Outlet Invert= 152.57' / 151.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=10.29 cfs @ 12.09 hrs HW=154.27' TW=153.56' (Dynamic Tailwater)
└**1=Culvert** (Outlet Controls 10.29 cfs @ 4.09 fps)

Summary for Pond CE14: CB-E14

Inflow Area = 109,749 sf, 83.89% Impervious, Inflow Depth > 3.30" for 10-YR event
Inflow = 8.80 cfs @ 12.09 hrs, Volume= 30,159 cf
Outflow = 8.80 cfs @ 12.09 hrs, Volume= 30,159 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.80 cfs @ 12.09 hrs, Volume= 30,159 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.32' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.85'	**24.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 153.85' / 153.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.14 cfs @ 12.09 hrs HW=155.30' TW=154.27' (Dynamic Tailwater)
└**1=Culvert** (Outlet Controls 8.14 cfs @ 4.67 fps)

Summary for Pond CE15: CB-E15

Inflow Area = 81,941 sf, 79.06% Impervious, Inflow Depth > 3.02" for 10-YR event
Inflow = 6.10 cfs @ 12.09 hrs, Volume= 20,620 cf
Outflow = 6.10 cfs @ 12.09 hrs, Volume= 20,620 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.10 cfs @ 12.09 hrs, Volume= 20,620 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.94' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.62'	**24.0" Round Culvert** L= 134.0' Ke= 0.500 Inlet / Outlet Invert= 154.62' / 153.95' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.49 cfs @ 12.09 hrs HW=155.91' TW=155.30' (Dynamic Tailwater)
└**1=Culvert** (Outlet Controls 5.49 cfs @ 3.64 fps)

Summary for Pond CE16: CB-E16

Inflow Area = 49,549 sf, 66.59% Impervious, Inflow Depth > 2.30" for 10-YR event
Inflow = 2.96 cfs @ 12.09 hrs, Volume= 9,508 cf
Outflow = 2.96 cfs @ 12.09 hrs, Volume= 9,508 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.96 cfs @ 12.09 hrs, Volume= 9,508 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.65' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**18.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.12' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.67 cfs @ 12.09 hrs HW=156.64' TW=155.92' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.67 cfs @ 3.53 fps)

Summary for Pond CE17: CB-E17

Inflow Area = 120,518 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.49' @ 0.00 hrs
Flood Elev= 163.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.49'	**12.0" Round Culvert** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 161.49' / 160.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=161.49' TW=160.75' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CE18: CB-E18

Inflow Area = 11,752 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.71' @ 12.24 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.50'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 156.50' / 156.25' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.50' TW=155.97' (Dynamic Tailwater)
↑—**1=Culvert** (Controls 0.00 cfs)

Summary for Pond CE19: CB-E19

Inflow Area = 75,753 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.37' @ 12.24 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.25'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 157.25' / 157.00' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=157.25' TW=156.75' (Dynamic Tailwater)
↑—**1=Culvert** (Controls 0.00 cfs)

Summary for Pond CE2: CB-E2

Inflow Area = 127,264 sf, 5.11% Impervious, Inflow Depth > 0.21" for 10-YR event
Inflow = 0.65 cfs @ 12.09 hrs, Volume= 2,251 cf
Outflow = 0.65 cfs @ 12.09 hrs, Volume= 2,251 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.65 cfs @ 12.09 hrs, Volume= 2,251 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.16' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.75'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.75' / 154.57' S= 0.0612 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=161.15' TW=154.85' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.63 cfs @ 2.15 fps)

Summary for Pond CE3: CB-E3

Inflow Area = 296,823 sf, 25.34% Impervious, Inflow Depth > 0.99" for 10-YR event
Inflow = 7.38 cfs @ 12.09 hrs, Volume= 24,433 cf
Outflow = 7.38 cfs @ 12.09 hrs, Volume= 24,433 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.38 cfs @ 12.09 hrs, Volume= 24,433 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.48' @ 12.09 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.17'	**24.0" Round Culvert** L= 178.0' Ke= 0.500 Inlet / Outlet Invert= 153.17' / 152.28' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.20 cfs @ 12.09 hrs HW=154.46' TW=152.49' (Dynamic Tailwater)
1=Culvert (Barrel Controls 7.20 cfs @ 4.77 fps)

Summary for Pond CE4: CB-E4

Inflow Area = 280,987 sf, 21.47% Impervious, Inflow Depth > 0.83" for 10-YR event
Inflow = 5.89 cfs @ 12.09 hrs, Volume= 19,389 cf
Outflow = 5.89 cfs @ 12.09 hrs, Volume= 19,389 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.89 cfs @ 12.09 hrs, Volume= 19,389 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.89' @ 12.11 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.57'	**24.0" Round Culvert** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 153.57' / 153.27' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.15 cfs @ 12.09 hrs HW=154.86' TW=154.46' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.15 cfs @ 3.43 fps)

Summary for Pond CE5: CB-E5

Inflow Area = 142,645 sf, 30.88% Impervious, Inflow Depth > 1.17" for 10-YR event
Inflow = 4.27 cfs @ 12.09 hrs, Volume= 13,938 cf
Outflow = 4.27 cfs @ 12.09 hrs, Volume= 13,938 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.27 cfs @ 12.09 hrs, Volume= 13,938 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.59' @ 12.09 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.45'	**18.0" Round Culvert** L= 76.0' Ke= 0.500 Inlet / Outlet Invert= 154.45' / 154.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.18 cfs @ 12.09 hrs HW=155.58' TW=154.86' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 4.18 cfs @ 4.07 fps)

Summary for Pond CE6: CB-E6

Inflow Area = 132,905 sf, 28.23% Impervious, Inflow Depth > 1.09" for 10-YR event
Inflow = 3.67 cfs @ 12.09 hrs, Volume= 12,032 cf
Outflow = 3.67 cfs @ 12.09 hrs, Volume= 12,032 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.67 cfs @ 12.09 hrs, Volume= 12,032 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.32' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**18.0" Round Culvert** L= 140.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.55' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.37 cfs @ 12.09 hrs HW=156.30' TW=155.58' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 3.37 cfs @ 3.60 fps)

Summary for Pond CE7: CB-E7

Inflow Area = 119,690 sf, 23.92% Impervious, Inflow Depth > 0.95" for 10-YR event
Inflow = 2.85 cfs @ 12.09 hrs, Volume= 9,445 cf
Outflow = 2.85 cfs @ 12.09 hrs, Volume= 9,445 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.85 cfs @ 12.09 hrs, Volume= 9,445 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.94' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.97'	**15.0" Round Culvert** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 155.97' / 155.50' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.63 cfs @ 12.09 hrs HW=156.93' TW=156.30' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 2.63 cfs @ 3.58 fps)

Summary for Pond CE8: CB-E8

Inflow Area = 98,838 sf, 20.60% Impervious, Inflow Depth > 0.81" for 10-YR event
Inflow = 2.02 cfs @ 12.09 hrs, Volume= 6,657 cf
Outflow = 2.02 cfs @ 12.09 hrs, Volume= 6,657 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.02 cfs @ 12.09 hrs, Volume= 6,657 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.59' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**15.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.86 cfs @ 12.09 hrs HW=157.57' TW=156.93' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 1.86 cfs @ 3.11 fps)

Summary for Pond CE9: CB-E9

Inflow Area = 10,388 sf, 85.30% Impervious, Inflow Depth > 3.33" for 10-YR event
Inflow = 0.87 cfs @ 12.09 hrs, Volume= 2,879 cf
Outflow = 0.87 cfs @ 12.09 hrs, Volume= 2,879 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.87 cfs @ 12.09 hrs, Volume= 2,879 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.53' @ 12.09 hrs
Flood Elev= 162.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 157.00' S= 0.0218 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.85 cfs @ 12.09 hrs HW=159.52' TW=157.57' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.85 cfs @ 2.34 fps)

Summary for Pond CS13: CB-S13

Inflow Area = 25,168 sf, 88.89% Impervious, Inflow Depth > 3.52" for 10-YR event
Inflow = 2.24 cfs @ 12.09 hrs, Volume= 7,386 cf
Outflow = 2.24 cfs @ 12.09 hrs, Volume= 7,386 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.24 cfs @ 12.09 hrs, Volume= 7,386 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.73' @ 12.09 hrs
Flood Elev= 158.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.90'	**15.0" Round Culvert** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 154.90' / 154.18' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.12 cfs @ 12.09 hrs HW=155.72' TW=154.87' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 2.12 cfs @ 3.52 fps)

Summary for Pond CS14: CB-S14

Inflow Area = 11,820 sf, 88.58% Impervious, Inflow Depth > 3.47" for 10-YR event
Inflow = 1.04 cfs @ 12.09 hrs, Volume= 3,415 cf
Outflow = 1.04 cfs @ 12.09 hrs, Volume= 3,415 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.04 cfs @ 12.09 hrs, Volume= 3,415 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.69' @ 12.09 hrs
Flood Elev= 159.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.16'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 156.16' / 155.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.01 cfs @ 12.09 hrs HW=156.68' TW=155.72' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.01 cfs @ 3.55 fps)

Summary for Pond DC1: DMH-C1

Inflow Area = 56,865 sf, 81.04% Impervious, Inflow Depth > 3.05" for 10-YR event
Inflow = 4.40 cfs @ 12.09 hrs, Volume= 14,458 cf
Outflow = 4.40 cfs @ 12.09 hrs, Volume= 14,458 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.40 cfs @ 12.09 hrs, Volume= 14,458 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.76' @ 12.09 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.74'	**18.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 156.74' / 155.25' S= 0.0096 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.30 cfs @ 12.09 hrs HW=157.75' TW=156.08' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 4.30 cfs @ 3.41 fps)

Summary for Pond DC10: DMH-C10

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf
Outflow = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf, Atten= 0%, Lag= 0.0 min
Primary = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.13' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.95'	**36.0" Round Culvert** L= 247.0' Ke= 0.500 Inlet / Outlet Invert= 149.95' / 148.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=24.00 cfs @ 12.09 hrs HW=152.10' TW=145.49' (Dynamic Tailwater)
1=Culvert (Barrel Controls 24.00 cfs @ 6.22 fps)

Summary for Pond DC11: DMH-C11

Inflow Area = 359,657 sf, 85.59% Impervious, Inflow Depth > 3.38" for 10-YR event
Inflow = 30.03 cfs @ 12.09 hrs, Volume= 101,251 cf
Outflow = 30.03 cfs @ 12.09 hrs, Volume= 101,251 cf, Atten= 0%, Lag= 0.0 min
Primary = 30.03 cfs @ 12.09 hrs, Volume= 101,251 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.18' @ 12.09 hrs
Flood Elev= 160.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.85'	**42.0" Round Culvert** L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 145.85' / 144.98' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=29.29 cfs @ 12.09 hrs HW=148.14' TW=145.50' (Dynamic Tailwater)
1=Culvert (Barrel Controls 29.29 cfs @ 6.23 fps)

Summary for Pond DC2: DMH-C2

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf
Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.22' @ 12.10 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=158.21' TW=157.45' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.66 cfs @ 2.71 fps)

Summary for Pond DC3: DMH-C3

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf
Outflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.46' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.43 cfs @ 12.09 hrs HW=157.45' TW=156.65' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.43 cfs @ 3.79 fps)

Summary for Pond DC4: DMH-C4

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf
Outflow = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.69' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.08 cfs @ 12.09 hrs HW=156.65' TW=156.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.08 cfs @ 3.63 fps)

Summary for Pond DC5: DMH-C5

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf
Outflow = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.08' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.07 cfs @ 12.09 hrs HW=156.06' TW=155.19' (Dynamic Tailwater)
1=Culvert (Outlet Controls 9.07 cfs @ 4.65 fps)

Summary for Pond DC6: DMH-C6

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf
Outflow = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.26' @ 12.12 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=10.11 cfs @ 12.09 hrs HW=155.19' TW=154.69' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.11 cfs @ 3.70 fps)

Summary for Pond DC7: DMH-C7

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf
Outflow = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.75' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.47 cfs @ 12.09 hrs HW=154.69' TW=153.97' (Dynamic Tailwater)
1=Culvert (Outlet Controls 13.47 cfs @ 4.38 fps)

Summary for Pond DC8: DMH-C8

Inflow Area = 188,100 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 18.41 cfs @ 12.09 hrs, Volume= 66,329 cf
Outflow = 18.41 cfs @ 12.09 hrs, Volume= 66,329 cf, Atten= 0%, Lag= 0.0 min
Primary = 18.41 cfs @ 12.09 hrs, Volume= 66,329 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.99' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.91'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 151.91' / 151.23' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=16.77 cfs @ 12.09 hrs HW=153.97' TW=152.92' (Dynamic Tailwater)
1=Culvert (Outlet Controls 16.77 cfs @ 5.28 fps)

Summary for Pond DC9: DMH-C9

Inflow Area = 219,600 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 21.50 cfs @ 12.09 hrs, Volume= 77,437 cf
Outflow = 21.50 cfs @ 12.09 hrs, Volume= 77,437 cf, Atten= 0%, Lag= 0.0 min
Primary = 21.50 cfs @ 12.09 hrs, Volume= 77,437 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.98' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.73'	**36.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 150.73' / 150.05' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=19.09 cfs @ 12.09 hrs HW=152.92' TW=152.10' (Dynamic Tailwater)
1=Culvert (Outlet Controls 19.09 cfs @ 4.82 fps)

Summary for Pond DD1: DMH-D1

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 2.37" for 10-YR event
Inflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf
Outflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.43' @ 12.30 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.04'	**30.0" Round Culvert** L= 273.0' Ke= 0.500 Inlet / Outlet Invert= 149.04' / 147.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=19.66 cfs @ 12.23 hrs HW=151.41' TW=150.04' (Dynamic Tailwater)
1=Culvert (Outlet Controls 19.66 cfs @ 5.26 fps)

Summary for Pond DD2: DMH-D2

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 2.37" for 10-YR event
Inflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf
Outflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.05' @ 12.29 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.57'	**30.0" Round Culvert** L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 147.57' / 146.66' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=19.76 cfs @ 12.23 hrs HW=150.04' TW=148.99' (Dynamic Tailwater)
1=Culvert (Outlet Controls 19.76 cfs @ 5.07 fps)

Summary for Pond DD3: DMH-D3

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 2.37" for 10-YR event
Inflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf
Outflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.00' @ 12.26 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	146.56'	**30.0" Round Culvert** L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 146.56' / 145.91' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=19.89 cfs @ 12.23 hrs HW=148.99' TW=148.03' (Dynamic Tailwater)
1=Culvert (Outlet Controls 19.89 cfs @ 5.18 fps)

Summary for Pond DD4: DMH-DD4

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 2.37" for 10-YR event
Inflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf
Outflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.03' @ 12.23 hrs
Flood Elev= 152.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.81'	**30.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 145.81' / 145.15' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=19.99 cfs @ 12.23 hrs HW=148.03' TW=143.89' (Dynamic Tailwater)
1=Culvert (Barrel Controls 19.99 cfs @ 5.76 fps)

Summary for Pond DE1: DMH-E1

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf
Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.22' @ 12.10 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=158.21' TW=157.45' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.66 cfs @ 2.71 fps)

Summary for Pond DE2: DMH-E2

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf
Outflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.46' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.43 cfs @ 12.09 hrs HW=157.45' TW=156.65' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.43 cfs @ 3.79 fps)

Summary for Pond DE3: DMH-E3

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf
Outflow = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf, Atten= 0%, Lag= 0.0 min
Primary = 6.87 cfs @ 12.09 hrs, Volume= 24,754 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.69' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.08 cfs @ 12.09 hrs HW=156.65' TW=156.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.08 cfs @ 3.63 fps)

Summary for Pond DE4: DMH-E4

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf
Outflow = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.96 cfs @ 12.09 hrs, Volume= 35,862 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.08' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.21 cfs @ 12.09 hrs HW=156.06' TW=155.17' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 9.21 cfs @ 4.72 fps)

Summary for Pond DE5: DMH-E5

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf
Outflow = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.75 cfs @ 12.09 hrs, Volume= 45,938 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.22' @ 12.11 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.25 cfs @ 12.09 hrs HW=155.17' TW=154.52' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 11.25 cfs @ 4.20 fps)

Summary for Pond DE6: DMH-E9

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf
Outflow = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.33 cfs @ 12.09 hrs, Volume= 55,221 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.54' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=14.91 cfs @ 12.09 hrs HW=154.52' TW=153.34' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 14.91 cfs @ 5.42 fps)

Summary for Pond DE7: DMH-E7

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf
Outflow = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf, Atten= 0%, Lag= 0.0 min
Primary = 24.67 cfs @ 12.09 hrs, Volume= 88,862 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.42' @ 12.12 hrs
Flood Elev= 161.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.01'	**42.0" Round Culvert** L= 78.0' Ke= 0.500 Inlet / Outlet Invert= 151.01' / 150.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=19.83 cfs @ 12.09 hrs HW=153.34' TW=152.83' (Dynamic Tailwater)
1=Culvert (Outlet Controls 19.83 cfs @ 4.14 fps)

Summary for Pond DE8: DMH-E8

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf
Outflow = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.79 cfs @ 12.09 hrs, Volume= 13,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.36' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.43' / 153.01' S= 0.0178 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.69 cfs @ 12.09 hrs HW=156.35' TW=153.34' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.69 cfs @ 3.26 fps)

Summary for Pond DE9: DMH-E9

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 4.23" for 10-YR event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf
Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,539 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.07' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.65'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 158.65' / 155.93' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=159.07' TW=156.35' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.69 cfs @ 2.20 fps)

Summary for Pond PC: POND C

Inflow Area = 683,407 sf, 81.92% Impervious, Inflow Depth > 3.34" for 10-YR event
Inflow = 54.69 cfs @ 12.09 hrs, Volume= 190,113 cf
Outflow = 4.11 cfs @ 13.27 hrs, Volume= 190,068 cf, Atten= 92%, Lag= 71.0 min
Discarded = 4.11 cfs @ 13.27 hrs, Volume= 190,068 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 146.66' @ 13.27 hrs Surf.Area= 35,354 sf Storage= 79,079 cf
Flood Elev= 150.00' Surf.Area= 44,250 sf Storage= 211,891 cf

Plug-Flow detention time= 167.9 min calculated for 189,673 cf (100% of inflow)
Center-of-Mass det. time= 167.4 min (934.5 - 767.0)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	211,891 cf	**Custom Stage Data (Conic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
144.00	23,000	0	0	23,000
146.00	33,700	56,360	56,360	33,766
148.00	38,850	72,489	128,849	39,090
150.00	44,250	83,041	211,891	44,679

Device	Routing	Invert	Outlet Devices
#1	Discarded	144.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 36.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.20' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=4.11 cfs @ 13.27 hrs HW=146.66' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 4.11 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' TW=0.00' (Dynamic Tailwater)
↑**2=Culvert** (Controls 0.00 cfs)
↑**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PD: POND D

Inflow Area = 1,054,789 sf, 57.80% Impervious, Inflow Depth > 2.29" for 10-YR event
Inflow = 29.39 cfs @ 12.11 hrs, Volume= 200,968 cf
Outflow = 3.43 cfs @ 14.39 hrs, Volume= 164,971 cf, Atten= 88%, Lag= 136.7 min
Discarded = 3.43 cfs @ 14.39 hrs, Volume= 164,971 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 146.13' @ 14.39 hrs Surf.Area= 29,417 sf Storage= 95,618 cf
Flood Elev= 150.00' Surf.Area= 37,700 sf Storage= 225,094 cf

Plug-Flow detention time= 243.2 min calculated for 164,971 cf (82% of inflow)
Center-of-Mass det. time= 172.4 min (970.1 - 797.6)

Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	225,094 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
142.00	18,500	0	0	18,500
144.00	22,150	40,595	40,595	22,287
146.00	29,150	51,140	91,735	29,378
148.00	33,300	62,404	154,139	33,713
150.00	37,700	70,955	225,094	38,311

Device	Routing	Invert	Outlet Devices
#1	Discarded	142.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.17' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=3.43 cfs @ 14.39 hrs HW=146.13' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 3.43 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Culvert** (Controls 0.00 cfs)
↑—**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PE: POND E

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 2.41" for 10-YR event
Inflow = 48.75 cfs @ 12.09 hrs, Volume= 170,315 cf
Outflow = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf, Atten= 59%, Lag= 8.4 min
Primary = 20.00 cfs @ 12.23 hrs, Volume= 167,663 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Starting Elev= 150.00' Surf.Area= 9,000 sf Storage= 15,000 cf
Peak Elev= 153.16' @ 12.30 hrs Surf.Area= 14,373 sf Storage= 51,739 cf (36,739 cf above start)
Flood Elev= 160.00' Surf.Area= 30,200 sf Storage= 200,400 cf (185,400 cf above start)

Plug-Flow detention time= 111.2 min calculated for 152,346 cf (89% of inflow)
Center-of-Mass det. time= 30.0 min (794.8 - 764.9)

Volume	Invert	Avail.Storage	Storage Description
#1	148.00'	200,400 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
148.00	6,000	0	0
150.00	9,000	15,000	15,000
152.00	12,250	21,250	36,250
154.00	15,900	28,150	64,400
156.00	20,150	36,050	100,450
158.00	24,800	44,950	145,400
160.00	30,200	55,000	200,400

Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	**30.0" Round Culvert** L= 153.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.14' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf
#2	Device 1	150.00'	**24.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	157.50'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=19.71 cfs @ 12.23 hrs HW=153.11' TW=151.41' (Dynamic Tailwater)
↑**1=Culvert** (Passes 19.71 cfs of 30.60 cfs potential flow)
↑**2=Orifice/Grate** (Orifice Controls 19.71 cfs @ 6.27 fps)
3=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond PH: POND H

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth > 0.02" for 10-YR event
Inflow = 0.01 cfs @ 13.62 hrs, Volume= 305 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 150.00' Surf.Area= 5,950 sf Storage= 13,653 cf
Peak Elev= 150.05' @ 24.00 hrs Surf.Area= 6,011 sf Storage= 13,958 cf (305 cf above start)
Flood Elev= 154.00' Surf.Area= 11,300 sf Storage= 47,909 cf (34,256 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	146.00'	47,909 cf	**Custom Stage Data (Conic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
146.00	1,500	0	0	1,500
148.00	3,225	4,616	4,616	3,258
150.00	5,950	9,037	13,653	6,024
152.00	8,574	14,444	28,098	8,716
154.00	11,300	19,811	47,909	11,532

Device	Routing	Invert	Outlet Devices
#1	Primary	150.00'	**15.0" Round Culvert** L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 150.00' / 149.78' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf
#2	Device 1	150.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#3	Primary	153.50'	**48.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' TW=152.00' (Dynamic Tailwater)
- **1=Culvert** (Controls 0.00 cfs)
  - **2=Orifice/Grate** (Controls 0.00 cfs)
- **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 57,112 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,252,889 sf, 38.55% Impervious, Inflow Depth > 0.05" for 10-YR event
Inflow = 0.98 cfs @ 12.46 hrs, Volume= 14,615 cf
Primary = 0.98 cfs @ 12.46 hrs, Volume= 14,615 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth > 0.01" for 10-YR event
Inflow = 0.08 cfs @ 17.13 hrs, Volume= 2,304 cf
Primary = 0.08 cfs @ 17.13 hrs, Volume= 2,304 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 212,906 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 71,723 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth = 0.00" for 10-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A1: SUBCAT A1 Runoff Area=4,895 sf 63.11% Impervious Runoff Depth>3.08"
Tc=6.0 min CN=76 Runoff=0.40 cfs 1,255 cf

Subcatchment A2: SUBCAT A2 Runoff Area=5,412 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.67 cfs 2,439 cf

Subcatchment A3: SUBCAT A3 Runoff Area=5,889 sf 94.62% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=0.71 cfs 2,484 cf

Subcatchment A4: SUBCAT A4 Runoff Area=6,616 sf 89.62% Impervious Runoff Depth>4.72"
Tc=6.0 min CN=92 Runoff=0.77 cfs 2,604 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.00 cfs 81 cf

Subcatchment C1: SUBCAT C1 Runoff Area=6,254 sf 34.70% Impervious Runoff Depth>1.62"
Tc=6.0 min CN=59 Runoff=0.25 cfs 843 cf

Subcatchment C10: SUBCAT C10 Runoff Area=26,752 sf 95.25% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=3.25 cfs 11,282 cf

Subcatchment C11: SUBCAT C11 Runoff Area=6,044 sf 71.33% Impervious Runoff Depth>3.56"
Tc=6.0 min CN=81 Runoff=0.57 cfs 1,795 cf

Subcatchment C12: SUBCAT C12 Runoff Area=8,341 sf 76.62% Impervious Runoff Depth>3.87"
Tc=6.0 min CN=84 Runoff=0.84 cfs 2,688 cf

Subcatchment C13: SUBCAT C13 Runoff Area=3,872 sf 77.27% Impervious Runoff Depth>3.97"
Tc=6.0 min CN=85 Runoff=0.40 cfs 1,281 cf

Subcatchment C14: SUBCAT C14 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.37 cfs 1,349 cf

Subcatchment C15: SUBCAT C15 Runoff Area=3,872 sf 81.40% Impervious Runoff Depth>4.18"
Tc=6.0 min CN=87 Runoff=0.42 cfs 1,349 cf

Subcatchment C16: SUBCAT C16 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.37 cfs 1,349 cf

Subcatchment C17: SUBCAT C17 Runoff Area=25,506 sf 95.04% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=3.09 cfs 10,757 cf

Subcatchment C18: SUBCAT C18 Runoff Area=27,087 sf 99.38% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.36 cfs 12,209 cf

Subcatchment C19: SUBCAT C19 Runoff Area=41,584 sf 80.98% Impervious Runoff Depth>4.18"
Tc=6.0 min CN=87 Runoff=4.46 cfs 14,485 cf

Subcatchment C2: SUBCAT C2 Runoff Area=4,249 sf 80.40% Impervious Runoff Depth>4.07"
Tc=6.0 min CN=86 Runoff=0.45 cfs 1,443 cf

Subcatchment C20: SUBCAT C20 Runoff Area=3,692 sf 81.61% Impervious Runoff Depth>4.18"
Tc=6.0 min CN=87 Runoff=0.40 cfs 1,286 cf

Subcatchment C21: SUBCAT C21 Runoff Area=3,610 sf 79.03% Impervious Runoff Depth>4.07"
Tc=6.0 min CN=86 Runoff=0.38 cfs 1,226 cf

Subcatchment C22: SUBCAT C22 Runoff Area=3,940 sf 77.16% Impervious Runoff Depth>3.97"
Tc=6.0 min CN=85 Runoff=0.41 cfs 1,304 cf

Subcatchment C23: SUBCAT C23 Runoff Area=3,424 sf 90.30% Impervious Runoff Depth>4.72"
Tc=6.0 min CN=92 Runoff=0.40 cfs 1,347 cf

Subcatchment C24: SUBCAT C24 Runoff Area=11,181 sf 56.94% Impervious Runoff Depth>2.80"
Tc=6.0 min CN=73 Runoff=0.83 cfs 2,607 cf

Subcatchment C25: SUBCAT C25 Runoff Area=5,747 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.71 cfs 2,590 cf

Subcatchment C26: SUBCAT C26 Runoff Area=2,533 sf 92.22% Impervious Runoff Depth>4.83"
Tc=6.0 min CN=93 Runoff=0.30 cfs 1,020 cf

Subcatchment C27: SUBCAT C27 Runoff Area=8,243 sf 88.85% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=0.95 cfs 3,168 cf

Subcatchment C28: SUBCAT C28 Runoff Area=9,089 sf 85.50% Impervious Runoff Depth>4.39"
Tc=6.0 min CN=89 Runoff=1.01 cfs 3,328 cf

Subcatchment C29: SUBCAT C29 Runoff Area=4,785 sf 67.29% Impervious Runoff Depth>3.37"
Tc=6.0 min CN=79 Runoff=0.42 cfs 1,342 cf

Subcatchment C3: SUBCAT C3 Runoff Area=1,309 sf 87.47% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=0.15 cfs 503 cf

Subcatchment C30: SUBCAT C30 Runoff Area=3,220 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.40 cfs 1,451 cf

Subcatchment C31: SUBCAT C31 Runoff Area=9,362 sf 86.57% Impervious Runoff Depth>4.50"
Tc=6.0 min CN=90 Runoff=1.06 cfs 3,513 cf

Subcatchment C32: SUBCAT C32 Runoff Area=4,710 sf 67.69% Impervious Runoff Depth>3.37"
Tc=6.0 min CN=79 Runoff=0.42 cfs 1,321 cf

Subcatchment C33: SUBCAT C33 Runoff Area=6,131 sf 52.05% Impervious Runoff Depth>2.10"
Tc=6.0 min CN=65 Runoff=0.33 cfs 1,072 cf

Subcatchment C34: SUBCAT C34 Runoff Area=8,792 sf 87.89% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=1.01 cfs 3,379 cf

Subcatchment C35: SUBCAT C35 Runoff Area=3,541 sf 65.66% Impervious Runoff Depth>3.27"
Tc=6.0 min CN=78 Runoff=0.31 cfs 965 cf

Subcatchment C36: SUBCAT C36 Runoff Area=4,686 sf 33.91% Impervious Runoff Depth>1.18"
Tc=6.0 min CN=53 Runoff=0.12 cfs 460 cf

Subcatchment C37: SUBCAT C37 Runoff Area=10,601 sf 53.01% Impervious Runoff Depth>2.53"
Tc=6.0 min CN=70 Runoff=0.70 cfs 2,233 cf

Subcatchment C38: SUBCAT C38 Runoff Area=6,400 sf 79.30% Impervious Runoff Depth>4.07"
Tc=6.0 min CN=86 Runoff=0.67 cfs 2,173 cf

Subcatchment C4: SUBCAT C4 Runoff Area=5,937 sf 33.28% Impervious Runoff Depth>1.62"
Tc=6.0 min CN=59 Runoff=0.23 cfs 800 cf

Subcatchment C5: SUBCAT C5 Runoff Area=5,125 sf 32.45% Impervious Runoff Depth>1.54"
Tc=6.0 min CN=58 Runoff=0.19 cfs 658 cf

Subcatchment C6: SUBCAT C6 Runoff Area=2,104 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.26 cfs 948 cf

Subcatchment C7: SUBCAT C7 Runoff Area=2,469 sf 80.19% Impervious Runoff Depth>4.07"
Tc=6.0 min CN=86 Runoff=0.26 cfs 838 cf

Subcatchment C8: SUBCAT C8 Runoff Area=31,789 sf 87.55% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=3.66 cfs 12,217 cf

Subcatchment C9: SUBCAT C9 Runoff Area=26,752 sf 99.34% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.32 cfs 12,058 cf

Subcatchment D1: SUBCAT D1 Runoff Area=6,306 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.78 cfs 2,842 cf

Subcatchment D10: SUBCAT D10 Runoff Area=8,279 sf 85.05% Impervious Runoff Depth>4.39"
Tc=6.0 min CN=89 Runoff=0.92 cfs 3,031 cf

Subcatchment D11: SUBCAT D11 Runoff Area=22,108 sf 71.77% Impervious Runoff Depth>3.56"
Tc=6.0 min CN=81 Runoff=2.07 cfs 6,565 cf

Subcatchment D12: SUBCAT D12 Runoff Area=8,350 sf 88.55% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=0.96 cfs 3,209 cf

Subcatchment D2: SUBCAT D2 Runoff Area=1,690 sf 84.14% Impervious Runoff Depth>4.39"
Tc=6.0 min CN=89 Runoff=0.19 cfs 619 cf

Subcatchment D3: SUBCAT D3 Runoff Area=34,598 sf 51.01% Impervious Runoff Depth>2.44"
Tc=6.0 min CN=69 Runoff=2.21 cfs 7,034 cf

Subcatchment D4: SUBCAT D4 Runoff Area=3,657 sf 72.49% Impervious Runoff Depth>3.66"
Tc=6.0 min CN=82 Runoff=0.35 cfs 1,116 cf

Subcatchment D5: SUBCAT D5 Runoff Area=6,341 sf 62.81% Impervious Runoff Depth>3.08"
Tc=6.0 min CN=76 Runoff=0.52 cfs 1,626 cf

Subcatchment D6: SUBCAT D6 Runoff Area=6,633 sf 75.95% Impervious Runoff Depth>3.87"
Tc=6.0 min CN=84 Runoff=0.67 cfs 2,137 cf

Subcatchment D7: SUBCAT D7 Runoff Area=17,040 sf 81.32% Impervious Runoff Depth>4.18"
Tc=6.0 min CN=87 Runoff=1.83 cfs 5,936 cf

Subcatchment D8: SUBCAT D8 Runoff Area=7,740 sf 84.12% Impervious Runoff Depth>4.39"
Tc=6.0 min CN=89 Runoff=0.86 cfs 2,834 cf

Subcatchment D9: SUBCAT D9 Runoff Area=19,265 sf 81.28% Impervious Runoff Depth>4.18"
Tc=6.0 min CN=87 Runoff=2.07 cfs 6,711 cf

Subcatchment E1: SUBCAT E1 Runoff Area=5,639 sf 95.66% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=0.68 cfs 2,378 cf

Subcatchment E10: SUBCAT E10 Runoff Area=11,128 sf 61.34% Impervious Runoff Depth>2.98"
Tc=6.0 min CN=75 Runoff=0.88 cfs 2,766 cf

Subcatchment E11: SUBCAT E11 Runoff Area=23,375 sf 93.96% Impervious Runoff Depth>4.95"
Tc=6.0 min CN=94 Runoff=2.81 cfs 9,636 cf

Subcatchment E12: SUBCAT E12 Runoff Area=18,833 sf 95.13% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=2.29 cfs 7,942 cf

Subcatchment E13: SUBCAT E13 Runoff Area=35,467 sf 94.58% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=4.30 cfs 14,958 cf

Subcatchment E14: SUBCAT E14 Runoff Area=27,808 sf 98.14% Impervious Runoff Depth>5.29"
Tc=6.0 min CN=97 Runoff=3.43 cfs 12,263 cf

Subcatchment E15: SUBCAT E15 Runoff Area=32,392 sf 98.14% Impervious Runoff Depth>5.29"
Tc=6.0 min CN=97 Runoff=4.00 cfs 14,284 cf

Subcatchment E16: SUBCAT E16 Runoff Area=30,721 sf 76.36% Impervious Runoff Depth>3.87"
Tc=6.0 min CN=84 Runoff=3.09 cfs 9,900 cf

Subcatchment E17: SUBCAT E17 Runoff Area=120,518 sf 0.00% Impervious Runoff Depth>0.04"
Flow Length=190' Tc=7.2 min CN=30 Runoff=0.01 cfs 396 cf

Subcatchment E18: SUBCAT E18 Runoff Area=11,752 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.00 cfs 39 cf

Subcatchment E19: SUBCAT E19 Runoff Area=75,753 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 249 cf

Subcatchment E2: SUBCAT E2 Runoff Area=6,746 sf 96.37% Impervious Runoff Depth>5.18"
Tc=6.0 min CN=96 Runoff=0.83 cfs 2,910 cf

Subcatchment E3: SUBCAT E3 Runoff Area=10,197 sf 93.34% Impervious Runoff Depth>4.95"
Tc=6.0 min CN=94 Runoff=1.22 cfs 4,204 cf

Subcatchment E4: SUBCAT E4 Runoff Area=11,078 sf 88.18% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=1.28 cfs 4,258 cf

Subcatchment E5: SUBCAT E5 Runoff Area=9,740 sf 67.06% Impervious Runoff Depth>3.37"
Tc=6.0 min CN=79 Runoff=0.86 cfs 2,732 cf

Subcatchment E6: SUBCAT E6 Runoff Area=13,215 sf 67.23% Impervious Runoff Depth>3.37"
Tc=6.0 min CN=79 Runoff=1.17 cfs 3,707 cf

Subcatchment E7: SUBCAT E7 Runoff Area=9,100 sf 90.92% Impervious Runoff Depth>4.83"
Tc=6.0 min CN=93 Runoff=1.08 cfs 3,666 cf

Subcatchment E8: SUBCAT E8 Runoff Area=12,697 sf 90.53% Impervious Runoff Depth>4.72"
Tc=6.0 min CN=92 Runoff=1.49 cfs 4,997 cf

Subcatchment E9: SUBCAT E9 Runoff Area=3,988 sf 94.93% Impervious Runoff Depth>5.06"
Tc=6.0 min CN=95 Runoff=0.48 cfs 1,682 cf

Subcatchment G1: SUBCAT G1 Runoff Area=203,535 sf 0.00% Impervious Runoff Depth>0.04"
Flow Length=1,090' Tc=11.8 min CN=30 Runoff=0.02 cfs 664 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>0.66"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=2.58 cfs 17,610 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.50"
Tc=6.0 min CN=42 Runoff=1.61 cfs 13,007 cf

Subcatchment R1: SUBCAT R1 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.89 cfs 3,245 cf

Subcatchment R10: SUBCAT R10 Runoff Area=32,400 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=4.02 cfs 14,604 cf

Subcatchment R11: SUBCAT R11 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R12: SUBCAT R12 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R13: SUBCAT R13 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.27 cfs 11,866 cf

Subcatchment R14: SUBCAT R14 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.54 cfs 12,880 cf

Subcatchment R15: SUBCAT R15 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R16: SUBCAT R16 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R17: SUBCAT R17 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R18: SUBCAT R18 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.89 cfs 3,245 cf

Subcatchment R2: SUBCAT R2 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R3: SUBCAT R3 Runoff Area=56,700 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=7.03 cfs 25,557 cf

Subcatchment R4: SUBCAT R4 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.27 cfs 11,866 cf

Subcatchment R5: SUBCAT R5 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.54 cfs 12,880 cf

Subcatchment R6: SUBCAT R6 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R7: SUBCAT R7 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R8: SUBCAT R8 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,199 cf

Subcatchment R9: SUBCAT R9 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>5.41"
Tc=6.0 min CN=98 Runoff=0.89 cfs 3,245 cf

Subcatchment S1: SUBCAT S1 Runoff Area=57,112 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 188 cf

Subcatchment S10: SUBCAT S10 Runoff Area=96,652 sf 6.11% Impervious Runoff Depth>0.15"
Flow Length=455' Tc=12.0 min CN=34 Runoff=0.04 cfs 1,178 cf

Subcatchment S11: SUBCAT S11 Runoff Area=113,276 sf 14.81% Impervious Runoff Depth>0.40"
Flow Length=327' Tc=6.0 min CN=40 Runoff=0.39 cfs 3,747 cf

Subcatchment S12: SUBCAT S12 Runoff Area=23,144 sf 3.59% Impervious Runoff Depth>0.45"
Tc=6.0 min CN=41 Runoff=0.10 cfs 862 cf

Subcatchment S13: SUBCAT S13 Runoff Area=13,348 sf 89.17% Impervious Runoff Depth>4.72"
Tc=6.0 min CN=92 Runoff=1.56 cfs 5,253 cf

Subcatchment S14: SUBCAT S14 Runoff Area=11,820 sf 88.58% Impervious Runoff Depth>4.61"
Tc=6.0 min CN=91 Runoff=1.36 cfs 4,543 cf

Subcatchment S2: SUBCAT S2 Runoff Area=71,723 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 236 cf

Subcatchment S3: SUBCAT S3 Runoff Area=100,949 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 332 cf

Subcatchment S4: SUBCAT S4 Runoff Area=212,906 sf 0.00% Impervious Runoff Depth>0.04"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.02 cfs 695 cf

Subcatchment S5: SUBCAT S5 Runoff Area=52,646 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 173 cf

Subcatchment S6: SUBCAT S6 Runoff Area=71,750 sf 0.00% Impervious Runoff Depth>0.04"
Tc=6.0 min CN=30 Runoff=0.01 cfs 236 cf

Subcatchment S8: SUBCAT S8 Runoff Area=446,502 sf 8.05% Impervious Runoff Depth>0.18"
Flow Length=2,253' Tc=13.6 min CN=35 Runoff=0.26 cfs 6,738 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.02' Max Vel=0.46 fps Inflow=0.26 cfs 4,839 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.19 cfs 4,587 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.03' Max Vel=0.67 fps Inflow=0.45 cfs 11,325 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=0.44 cfs 10,949 cf

Reach RG: REACH G Avg. Flow Depth=0.04' Max Vel=1.90 fps Inflow=0.02 cfs 664 cf
12.0" Round Pipe n=0.012 L=180.0' S=0.0278 '/' Capacity=6.43 cfs Outflow=0.02 cfs 662 cf

Reach W1: WETLAND REACH 1 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=420.0' S=0.0190 '/' Capacity=177.62 cfs Outflow=0.00 cfs 0 cf

Reach W2: WETLAND REACH 2 Avg. Flow Depth=0.03' Max Vel=0.40 fps Inflow=0.39 cfs 3,747 cf
n=0.030 L=480.0' S=0.0083 '/' Capacity=117.48 cfs Outflow=0.26 cfs 3,661 cf

Pond CA1: CB-A1 Peak Elev=156.29' Inflow=1.07 cfs 3,695 cf
12.0" Round Culvert n=0.012 L=83.0' S=0.0100 '/' Outflow=1.07 cfs 3,695 cf

Pond CA2: CB-A2 Peak Elev=156.69' Inflow=0.67 cfs 2,439 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0100 '/' Outflow=0.67 cfs 2,439 cf

Pond CA3: CB-A3 Peak Elev=155.05' Inflow=4.41 cfs 14,883 cf
18.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=4.41 cfs 14,883 cf

Pond CA4: CB-A4 Peak Elev=155.43' Inflow=0.77 cfs 2,604 cf
12.0" Round Culvert n=0.012 L=50.0' S=0.0100 '/' Outflow=0.77 cfs 2,604 cf

Pond CC1: CB-C1 Peak Elev=159.59' Inflow=0.25 cfs 843 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0048 '/' Outflow=0.25 cfs 843 cf

Pond CC10: CB-C10 Peak Elev=153.91' Inflow=20.07 cfs 68,328 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=20.07 cfs 68,328 cf

Pond CC11: CB-C11 Peak Elev=156.13' Inflow=0.57 cfs 1,795 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0200 '/' Outflow=0.57 cfs 1,795 cf

Pond CC12: CB-C12 Peak Elev=149.54' Inflow=11.56 cfs 38,748 cf
24.0" Round Culvert n=0.012 L=70.0' S=0.0050 '/' Outflow=11.56 cfs 38,748 cf

Pond CC13: CB-C13 Peak Elev=156.06' Inflow=0.40 cfs 1,281 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.40 cfs 1,281 cf

Pond CC14: CB-C14 Peak Elev=150.42' Inflow=10.16 cfs 34,265 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=10.16 cfs 34,265 cf

Pond CC15: CB-C15 Peak Elev=156.07' Inflow=0.42 cfs 1,349 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.42 cfs 1,349 cf

Pond CC16: CB-C16 Peak Elev=151.25' Inflow=9.39 cfs 31,635 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=9.39 cfs 31,635 cf

Pond CC17: CB-C17 Peak Elev=154.60' Inflow=16.83 cfs 57,045 cf
30.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=16.83 cfs 57,045 cf

Pond CC18: CB-C18 Peak Elev=155.26' Inflow=13.73 cfs 46,289 cf
30.0" Round Culvert n=0.012 L=168.0' S=0.0050 '/' Outflow=13.73 cfs 46,289 cf

Pond CC19: CB-C19 Peak Elev=156.37' Inflow=10.37 cfs 34,079 cf
24.0" Round Culvert n=0.012 L=181.0' S=0.0050 '/' Outflow=10.37 cfs 34,079 cf

Pond CC2: CB-C2 Peak Elev=159.49' Inflow=0.69 cfs 2,286 cf
12.0" Round Culvert n=0.012 L=56.0' S=0.0050 '/' Outflow=0.69 cfs 2,286 cf

Pond CC20: CB-C20 Peak Elev=152.10' Inflow=8.60 cfs 28,938 cf
24.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=8.60 cfs 28,938 cf

Pond CC21: CB-C21 Peak Elev=156.05' Inflow=0.38 cfs 1,226 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.38 cfs 1,226 cf

Pond CC22: CB-C22 Peak Elev=156.07' Inflow=0.41 cfs 1,304 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.41 cfs 1,304 cf

Pond CC23: CB-C23 Peak Elev=152.97' Inflow=7.82 cfs 26,426 cf
24.0" Round Culvert n=0.012 L=173.0' S=0.0050 '/' Outflow=7.82 cfs 26,426 cf

Pond CC24: CB-C24 Peak Elev=155.57' Inflow=1.89 cfs 6,302 cf
12.0" Round Culvert n=0.012 L=42.0' S=0.0290 '/' Outflow=1.89 cfs 6,302 cf

Pond CC25: CB-C25 Peak Elev=153.92' Inflow=7.02 cfs 23,775 cf
24.0" Round Culvert n=0.012 L=190.0' S=0.0050 '/' Outflow=7.02 cfs 23,775 cf

Pond CC26: CB-C26 Peak Elev=158.71' Inflow=1.12 cfs 3,814 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0224 '/' Outflow=1.12 cfs 3,814 cf

Pond CC27: CB-C27 Peak Elev=158.70' Inflow=4.78 cfs 15,780 cf
18.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=4.78 cfs 15,780 cf

Pond CC28: CB-C28 Peak Elev=159.39' Inflow=3.83 cfs 12,612 cf
15.0" Round Culvert n=0.012 L=101.0' S=0.0050 '/' Outflow=3.83 cfs 12,612 cf

Pond CC29: CB-C29 Peak Elev=160.26' Inflow=0.82 cfs 2,794 cf
12.0" Round Culvert n=0.012 L=77.0' S=0.0200 '/' Outflow=0.82 cfs 2,794 cf

Pond CC3: CB-C3 Peak Elev=159.20' Inflow=0.84 cfs 2,789 cf
12.0" Round Culvert n=0.012 L=75.0' S=0.0049 '/' Outflow=0.84 cfs 2,789 cf

Pond CC30: CB-C30 Peak Elev=160.73' Inflow=0.40 cfs 1,451 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.40 cfs 1,451 cf

Pond CC31: CB-C31 Peak Elev=160.01' Inflow=2.82 cfs 9,284 cf
15.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=2.82 cfs 9,284 cf

Pond CC32: CB-C32 Peak Elev=161.74' Inflow=0.75 cfs 2,393 cf
12.0" Round Culvert n=0.012 L=53.0' S=0.0292 '/' Outflow=0.75 cfs 2,393 cf

Pond CC33: CB-C33 Peak Elev=162.43' Inflow=0.33 cfs 1,072 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0288 '/' Outflow=0.33 cfs 1,072 cf

Pond CC34: CB-C34 Peak Elev=160.49' Inflow=1.76 cfs 5,772 cf
12.0" Round Culvert n=0.012 L=88.0' S=0.0050 '/' Outflow=1.76 cfs 5,772 cf

Pond CC35: CB-C35 Peak Elev=159.53' Inflow=1.13 cfs 3,657 cf
12.0" Round Culvert n=0.012 L=90.0' S=0.0303 '/' Outflow=1.13 cfs 3,657 cf

Pond CC36: CB-C36 Peak Elev=160.32' Inflow=0.12 cfs 460 cf
12.0" Round Culvert n=0.012 L=40.0' S=0.0267 '/' Outflow=0.12 cfs 460 cf

Pond CC37: CB-C37 Peak Elev=159.76' Inflow=0.70 cfs 2,233 cf
12.0" Round Culvert n=0.012 L=34.0' S=0.0050 '/' Outflow=0.70 cfs 2,233 cf

Pond CC38: CB-C38 Peak Elev=161.71' Inflow=0.67 cfs 2,173 cf
12.0" Round Culvert n=0.012 L=120.0' S=0.0179 '/' Outflow=0.67 cfs 2,173 cf

Pond CC4: CB-C4 Peak Elev=157.75' Inflow=0.23 cfs 800 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0100 '/' Outflow=0.23 cfs 800 cf

Pond CC5: CB-C5 Peak Elev=159.67' Inflow=0.19 cfs 658 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0100 '/' Outflow=0.19 cfs 658 cf

Pond CC6: CB-C6 Peak Elev=156.92' Inflow=0.94 cfs 3,245 cf
12.0" Round Culvert n=0.012 L=73.0' S=0.0100 '/' Outflow=0.94 cfs 3,245 cf

Pond CC7: CB-C7 Peak Elev=157.50' Inflow=0.49 cfs 1,638 cf
12.0" Round Culvert n=0.012 L=62.0' S=0.0100 '/' Outflow=0.49 cfs 1,638 cf

Pond CC8: CB-C8 Peak Elev=151.66' Inflow=27.05 cfs 92,603 cf
36.0" Round Culvert n=0.012 L=85.0' S=0.0051 '/' Outflow=27.05 cfs 92,603 cf

Pond CC9: CB-C9 Peak Elev=152.97' Inflow=23.39 cfs 80,386 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=23.39 cfs 80,386 cf

Pond CD1: CB-D1 Peak Elev=159.55' Inflow=0.78 cfs 2,842 cf
12.0" Round Culvert n=0.012 L=144.0' S=0.0050 '/' Outflow=0.78 cfs 2,842 cf

Pond CD10: CB-D10 Peak Elev=159.24' Inflow=0.92 cfs 3,031 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0300 '/' Outflow=0.92 cfs 3,031 cf

Pond CD11: CB-D11 Peak Elev=155.39' Inflow=14.26 cfs 46,449 cf
24.0" Round Culvert n=0.012 L=264.0' S=0.0133 '/' Outflow=14.26 cfs 46,449 cf

Pond CD12: CB-D12 Peak Elev=158.87' Inflow=1.80 cfs 5,998 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0299 '/' Outflow=1.80 cfs 5,998 cf

Pond CD2: CB-D2 Peak Elev=158.74' Inflow=0.97 cfs 3,461 cf
12.0" Round Culvert n=0.012 L=91.0' S=0.0189 '/' Outflow=0.97 cfs 3,461 cf

Pond CD3: CB-D3 Peak Elev=157.74' Inflow=2.21 cfs 7,034 cf
12.0" Round Culvert n=0.012 L=48.0' S=0.0050 '/' Outflow=2.21 cfs 7,034 cf

Pond CD4: CB-D4 Peak Elev=157.18' Inflow=4.71 cfs 15,375 cf
18.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=4.71 cfs 15,375 cf

Pond CD5: CB-D5 Peak Elev=158.32' Inflow=1.18 cfs 3,764 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0477 '/' Outflow=1.18 cfs 3,764 cf

Pond CD6: CB-D6 Peak Elev=158.63' Inflow=0.67 cfs 2,137 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0100 '/' Outflow=0.67 cfs 2,137 cf

Pond CD7: CB-D7 Peak Elev=156.31' Inflow=7.40 cfs 24,145 cf
24.0" Round Culvert n=0.012 L=93.0' S=0.0051 '/' Outflow=7.40 cfs 24,145 cf

Pond CD8: CB-D8 Peak Elev=159.23' Inflow=0.86 cfs 2,834 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0253 '/' Outflow=0.86 cfs 2,834 cf

Pond CD9: CB-D9 Peak Elev=155.98' Inflow=10.39 cfs 33,887 cf
24.0" Round Culvert n=0.012 L=100.0' S=0.0050 '/' Outflow=10.39 cfs 33,887 cf

Pond CE1: CB-E1 Peak Elev=161.27' Inflow=0.68 cfs 2,378 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0661 '/' Outflow=0.68 cfs 2,378 cf

Pond CE10: CB-E10 Peak Elev=154.08' Inflow=32.14 cfs 116,355 cf
42.0" Round Culvert n=0.012 L=43.0' S=0.0049 '/' Outflow=32.14 cfs 116,355 cf

Pond CE11: CB-E11 Peak Elev=154.12' Inflow=21.03 cfs 72,641 cf
30.0" Round Culvert n=0.012 L=104.0' S=0.0050 '/' Outflow=21.03 cfs 72,641 cf

Pond CE12: CB-E12 Peak Elev=154.19' Inflow=18.23 cfs 63,005 cf
30.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=18.23 cfs 63,005 cf

Pond CE13: CB-E13 Peak Elev=154.70' Inflow=15.94 cfs 55,062 cf
30.0" Round Culvert n=0.012 L=161.0' S=0.0050 '/' Outflow=15.94 cfs 55,062 cf

Pond CE14: CB-E14 Peak Elev=155.63' Inflow=11.64 cfs 40,104 cf
24.0" Round Culvert n=0.012 L=155.0' S=0.0050 '/' Outflow=11.64 cfs 40,104 cf

Pond CE15: CB-E15 Peak Elev=156.24' Inflow=8.21 cfs 27,842 cf
24.0" Round Culvert n=0.012 L=134.0' S=0.0050 '/' Outflow=8.21 cfs 27,842 cf

Pond CE16: CB-E16 Peak Elev=156.89' Inflow=4.22 cfs 13,557 cf
18.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=4.22 cfs 13,557 cf

Pond CE17: CB-E17 Peak Elev=161.55' Inflow=0.01 cfs 396 cf
12.0" Round Culvert n=0.012 L=64.0' S=0.0100 '/' Outflow=0.01 cfs 396 cf

Pond CE18: CB-E18 Peak Elev=156.77' Inflow=0.00 cfs 39 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.00 cfs 39 cf

Pond CE19: CB-E19 Peak Elev=157.44' Inflow=0.01 cfs 249 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.01 cfs 249 cf

Pond CE2: CB-E2 Peak Elev=161.21' Inflow=0.83 cfs 3,306 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0612 '/' Outflow=0.83 cfs 3,306 cf

Pond CE3: CB-E3 Peak Elev=154.73' Inflow=9.77 cfs 33,389 cf
24.0" Round Culvert n=0.012 L=178.0' S=0.0050 '/' Outflow=9.77 cfs 33,389 cf

Pond CE4: CB-E4 Peak Elev=155.17' Inflow=7.86 cfs 26,808 cf
24.0" Round Culvert n=0.012 L=60.0' S=0.0050 '/' Outflow=7.86 cfs 26,808 cf

Pond CE5: CB-E5 Peak Elev=155.84' Inflow=5.76 cfs 19,244 cf
18.0" Round Culvert n=0.012 L=76.0' S=0.0050 '/' Outflow=5.76 cfs 19,244 cf

Pond CE6: CB-E6 Peak Elev=156.56' Inflow=4.89 cfs 16,512 cf
18.0" Round Culvert n=0.012 L=140.0' S=0.0050 '/' Outflow=4.89 cfs 16,512 cf

Pond CE7: CB-E7 Peak Elev=157.15' Inflow=3.72 cfs 12,806 cf
15.0" Round Culvert n=0.012 L=95.0' S=0.0049 '/' Outflow=3.72 cfs 12,806 cf

Pond CE8: CB-E8 Peak Elev=157.76' Inflow=2.64 cfs 9,101 cf
15.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=2.64 cfs 9,101 cf

Pond CE9: CB-E9 Peak Elev=159.61' Inflow=1.16 cfs 3,855 cf
12.0" Round Culvert n=0.012 L=94.0' S=0.0218 '/' Outflow=1.16 cfs 3,855 cf

Pond CS13: CB-S13 Peak Elev=155.90' Inflow=2.92 cfs 9,796 cf
15.0" Round Culvert n=0.012 L=145.0' S=0.0050 '/' Outflow=2.92 cfs 9,796 cf

Pond CS14: CB-S14 Peak Elev=156.78' Inflow=1.36 cfs 4,543 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0100 '/' Outflow=1.36 cfs 4,543 cf

Pond DC1: DMH-C1 Peak Elev=157.98' Inflow=5.91 cfs 19,594 cf
18.0" Round Culvert n=0.012 L=155.0' S=0.0096 '/' Outflow=5.91 cfs 19,594 cf

Pond DC10: DMH-C10 Peak Elev=152.50' Inflow=31.26 cfs 113,589 cf
36.0" Round Culvert n=0.012 L=247.0' S=0.0050 '/' Outflow=31.26 cfs 113,589 cf

Pond DC11: DMH-C11 Peak Elev=148.62' Inflow=39.56 cfs 134,596 cf
42.0" Round Culvert n=0.012 L=174.0' S=0.0050 '/' Outflow=39.56 cfs 134,596 cf

Pond DC2: DMH-C2 Peak Elev=158.31' Inflow=0.89 cfs 3,245 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.89 cfs 3,245 cf

Pond DC3: DMH-C3 Peak Elev=157.66' Inflow=4.80 cfs 17,444 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=4.80 cfs 17,444 cf

Pond DC4: DMH-C4 Peak Elev=156.97' Inflow=8.71 cfs 31,643 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=8.71 cfs 31,643 cf

Pond DC5: DMH-C5 Peak Elev=156.37' Inflow=12.62 cfs 45,841 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=12.62 cfs 45,841 cf

Pond DC6: DMH-C6 Peak Elev=155.63' Inflow=16.16 cfs 58,721 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=16.16 cfs 58,721 cf

Pond DC7: DMH-C7 Peak Elev=155.15' Inflow=19.43 cfs 70,587 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=19.43 cfs 70,587 cf

Pond DC8: DMH-C8 Peak Elev=154.37' Inflow=23.34 cfs 84,786 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=23.34 cfs 84,786 cf

Pond DC9: DMH-C9 Peak Elev=153.38' Inflow=27.24 cfs 98,985 cf
36.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=27.24 cfs 98,985 cf

Pond DD1: DMH-D1 Peak Elev=151.76' Inflow=22.88 cfs 219,647 cf
30.0" Round Culvert n=0.012 L=273.0' S=0.0050 '/' Outflow=22.88 cfs 219,647 cf

Pond DD2: DMH-D2 Peak Elev=150.37' Inflow=22.88 cfs 219,647 cf
30.0" Round Culvert n=0.012 L=183.0' S=0.0050 '/' Outflow=22.88 cfs 219,647 cf

Pond DD3: DMH-D3 Peak Elev=149.27' Inflow=22.88 cfs 219,647 cf
30.0" Round Culvert n=0.012 L=131.0' S=0.0050 '/' Outflow=22.88 cfs 219,647 cf

Pond DD4: DMH-DD4 Peak Elev=148.25' Inflow=22.88 cfs 219,647 cf
30.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=22.88 cfs 219,647 cf

Pond DE1: DMH-E1 Peak Elev=158.31' Inflow=0.89 cfs 3,245 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=0.89 cfs 3,245 cf

Pond DE2: DMH-E2 Peak Elev=157.66' Inflow=4.80 cfs 17,444 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=4.80 cfs 17,444 cf

Pond DE3: DMH-E3 Peak Elev=156.97' Inflow=8.71 cfs 31,643 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=8.71 cfs 31,643 cf

Pond DE4: DMH-E4 Peak Elev=156.36' Inflow=12.62 cfs 45,841 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=12.62 cfs 45,841 cf

Pond DE5: DMH-E5 Peak Elev=155.55' Inflow=16.16 cfs 58,721 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=16.16 cfs 58,721 cf

Pond DE6: DMH-E9 Peak Elev=154.85' Inflow=19.43 cfs 70,587 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=19.43 cfs 70,587 cf

Pond DE7: DMH-E7 Peak Elev=154.13' Inflow=31.26 cfs 113,589 cf
42.0" Round Culvert n=0.012 L=78.0' S=0.0050 '/' Outflow=31.26 cfs 113,589 cf

Pond DE8: DMH-E8 Peak Elev=156.51' Inflow=4.80 cfs 17,444 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0178 '/' Outflow=4.80 cfs 17,444 cf

Pond DE9: DMH-E9 Peak Elev=159.13' Inflow=0.89 cfs 3,245 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0200 '/' Outflow=0.89 cfs 3,245 cf

Pond PC: POND C Peak Elev=147.59' Storage=113,010 cf Inflow=70.82 cfs 248,421 cf
Discarded=4.39 cfs 225,151 cf Primary=0.00 cfs 0 cf Outflow=4.39 cfs 225,151 cf

Pond PD: POND D Peak Elev=147.49' Storage=137,534 cf Inflow=35.37 cfs 266,270 cf
Discarded=3.77 cfs 192,468 cf Primary=0.00 cfs 0 cf Outflow=3.77 cfs 192,468 cf

Pond PE: POND E Peak Elev=154.03' Storage=64,856 cf Inflow=62.94 cfs 222,718 cf
Outflow=22.88 cfs 219,647 cf

Pond PH: POND H Peak Elev=150.25' Storage=15,175 cf Inflow=0.10 cfs 1,524 cf
Outflow=0.00 cfs 0 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.01 cfs 188 cf
Primary=0.01 cfs 188 cf

Link L2: RIVER Inflow=4.16 cfs 41,566 cf
Primary=4.16 cfs 41,566 cf

Link L3: EX CULVERTS Inflow=0.45 cfs 11,325 cf
Primary=0.45 cfs 11,325 cf

Link L4: WEST PROPERTY LINE Inflow=0.02 cfs 695 cf
Primary=0.02 cfs 695 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.01 cfs 236 cf
Primary=0.01 cfs 236 cf

Link L6: FOX HOLLOW

Inflow=0.00 cfs 81 cf
Primary=0.00 cfs 81 cf

Total Runoff Area = 3,619,215 sf Runoff Volume = 562,768 cf Average Runoff Depth = 1.87"
65.35% Pervious = 2,365,273 sf 34.65% Impervious = 1,253,942 sf

Summary for Subcatchment A1: SUBCAT A1

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,255 cf, Depth> 3.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,089	98	Proposed Pavement
	1,806	39	>75% Grass cover, Good, HSG A
	4,895	76	Weighted Average
	1,806		36.89% Pervious Area
	3,089		63.11% Impervious Area

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

Summary for Subcatchment A2: SUBCAT A2

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 2,439 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,412	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,412	98	Weighted Average
	5,412		100.00% Impervious Area

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

Summary for Subcatchment A3: SUBCAT A3

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 2,484 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,572	98	Proposed Pavement
	317	39	>75% Grass cover, Good, HSG A
	5,889	95	Weighted Average
	317		5.38% Pervious Area
	5,572		94.62% Impervious Area

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

Summary for Subcatchment A4: SUBCAT A4

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 2,604 cf, Depth> 4.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,929	98	Proposed Pavement
	687	39	>75% Grass cover, Good, HSG A
	6,616	92	Weighted Average
	687		10.38% Pervious Area
	5,929		89.62% Impervious Area

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

Summary for Subcatchment B: SUBCAT B

Runoff = 0.00 cfs @ 17.13 hrs, Volume= 81 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	0	39	>75% Grass cover, Good, HSG A
	24,585	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,585	30	Weighted Average
	24,585		100.00% Pervious Area

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

Summary for Subcatchment C1: SUBCAT C1

Runoff = 0.25 cfs @ 12.10 hrs, Volume= 843 cf, Depth> 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,170	98	Proposed Pavement
	4,084	39	>75% Grass cover, Good, HSG A
	6,254	59	Weighted Average
	4,084		65.30% Pervious Area
	2,170		34.70% Impervious Area

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

Summary for Subcatchment C10: SUBCAT C10

Runoff = 3.25 cfs @ 12.09 hrs, Volume= 11,282 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	25,480	98	Proposed Pavement
	1,272	39	>75% Grass cover, Good, HSG A
	26,752	95	Weighted Average
	1,272		4.75% Pervious Area
	25,480		95.25% Impervious Area

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

Summary for Subcatchment C11: SUBCAT C11

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 1,795 cf, Depth> 3.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	4,311	98	Proposed Pavement
	1,733	39	>75% Grass cover, Good, HSG A
	6,044	81	Weighted Average
	1,733		28.67% Pervious Area
	4,311		71.33% Impervious Area

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

Summary for Subcatchment C12: SUBCAT C12

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 2,688 cf, Depth> 3.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,391	98	Proposed Pavement
	1,950	39	>75% Grass cover, Good, HSG A
	8,341	84	Weighted Average
	1,950		23.38% Pervious Area
	6,391		76.62% Impervious Area

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

Summary for Subcatchment C13: SUBCAT C13

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,281 cf, Depth> 3.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	880	39	>75% Grass cover, Good, HSG A
	3,872	85	Weighted Average
	880		22.73% Pervious Area
	2,992		77.27% Impervious Area

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

Summary for Subcatchment C14: SUBCAT C14

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,349 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C15: SUBCAT C15

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,349 cf, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,152	98	Proposed Pavement
	720	39	>75% Grass cover, Good, HSG A
	3,872	87	Weighted Average
	720		18.60% Pervious Area
	3,152		81.40% Impervious Area

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

Summary for Subcatchment C16: SUBCAT C16

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,349 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,992	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,992	98	Weighted Average
	2,992		100.00% Impervious Area

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

Summary for Subcatchment C17: SUBCAT C17

Runoff = 3.09 cfs @ 12.09 hrs, Volume= 10,757 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	24,242	98	Proposed Pavement
	1,264	39	>75% Grass cover, Good, HSG A
	25,506	95	Weighted Average
	1,264		4.96% Pervious Area
	24,242		95.04% Impervious Area

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

Summary for Subcatchment C18: SUBCAT C18

Runoff = 3.36 cfs @ 12.09 hrs, Volume= 12,209 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	26,918	98	Proposed Pavement
	169	39	>75% Grass cover, Good, HSG A
	27,087	98	Weighted Average
	169		0.62% Pervious Area
	26,918		99.38% Impervious Area

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

Summary for Subcatchment C19: SUBCAT C19

Runoff = 4.46 cfs @ 12.09 hrs, Volume= 14,485 cf, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	33,675	98	Proposed Pavement
	7,909	39	>75% Grass cover, Good, HSG A
	41,584	87	Weighted Average
	7,909		19.02% Pervious Area
	33,675		80.98% Impervious Area

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

Summary for Subcatchment C2: SUBCAT C2

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,443 cf, Depth> 4.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,416	98	Proposed Pavement
	833	39	>75% Grass cover, Good, HSG A
	4,249	86	Weighted Average
	833		19.60% Pervious Area
	3,416		80.40% Impervious Area

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

Summary for Subcatchment C20: SUBCAT C20

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,286 cf, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,013	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	3,692	87	Weighted Average
	679		18.39% Pervious Area
	3,013		81.61% Impervious Area

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

Summary for Subcatchment C21: SUBCAT C21

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,226 cf, Depth> 4.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,853	98	Proposed Pavement
	757	39	>75% Grass cover, Good, HSG A
	3,610	86	Weighted Average
	757		20.97% Pervious Area
	2,853		79.03% Impervious Area

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

Summary for Subcatchment C22: SUBCAT C22

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 1,304 cf, Depth> 3.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,040	98	Proposed Pavement
	900	39	>75% Grass cover, Good, HSG A
	3,940	85	Weighted Average
	900		22.84% Pervious Area
	3,040		77.16% Impervious Area

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

Summary for Subcatchment C23: SUBCAT C23

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,347 cf, Depth> 4.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,092	98	Proposed Pavement
	332	39	>75% Grass cover, Good, HSG A
	3,424	92	Weighted Average
	332		9.70% Pervious Area
	3,092		90.30% Impervious Area

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

Summary for Subcatchment C24: SUBCAT C24

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 2,607 cf, Depth> 2.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,366	98	Proposed Pavement
	4,815	39	>75% Grass cover, Good, HSG A
	11,181	73	Weighted Average
	4,815		43.06% Pervious Area
	6,366		56.94% Impervious Area

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

Summary for Subcatchment C25: SUBCAT C25

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 2,590 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,747	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	5,747	98	Weighted Average
	5,747		100.00% Impervious Area

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

Summary for Subcatchment C26: SUBCAT C26

Runoff = 0.30 cfs @ 12.09 hrs, Volume= 1,020 cf, Depth> 4.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,336	98	Proposed Pavement
	197	39	>75% Grass cover, Good, HSG A
	2,533	93	Weighted Average
	197		7.78% Pervious Area
	2,336		92.22% Impervious Area

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

Summary for Subcatchment C27: SUBCAT C27

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 3,168 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,324	98	Proposed Pavement
	919	39	>75% Grass cover, Good, HSG A
	8,243	91	Weighted Average
	919		11.15% Pervious Area
	7,324		88.85% Impervious Area

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

Summary for Subcatchment C28: SUBCAT C28

Runoff = 1.01 cfs @ 12.09 hrs, Volume= 3,328 cf, Depth> 4.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,771	98	Proposed Pavement
	1,318	39	>75% Grass cover, Good, HSG A
	9,089	89	Weighted Average
	1,318		14.50% Pervious Area
	7,771		85.50% Impervious Area

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

Summary for Subcatchment C29: SUBCAT C29

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,342 cf, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	1,565	39	>75% Grass cover, Good, HSG A
	4,785	79	Weighted Average
	1,565		32.71% Pervious Area
	3,220		67.29% Impervious Area

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

Summary for Subcatchment C3: SUBCAT C3

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 503 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,145	98	Proposed Pavement
	164	39	>75% Grass cover, Good, HSG A
	1,309	91	Weighted Average
	164		12.53% Pervious Area
	1,145		87.47% Impervious Area

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

Summary for Subcatchment C30: SUBCAT C30

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,451 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,220	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	3,220	98	Weighted Average
	3,220		100.00% Impervious Area

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

Summary for Subcatchment C31: SUBCAT C31

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 3,513 cf, Depth> 4.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	8,105	98	Proposed Pavement
	1,257	39	>75% Grass cover, Good, HSG A
	9,362	90	Weighted Average
	1,257		13.43% Pervious Area
	8,105		86.57% Impervious Area

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

Summary for Subcatchment C32: SUBCAT C32

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,321 cf, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,188	98	Proposed Pavement
	1,522	39	>75% Grass cover, Good, HSG A
	4,710	79	Weighted Average
	1,522		32.31% Pervious Area
	3,188		67.69% Impervious Area

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

Summary for Subcatchment C33: SUBCAT C33

Runoff = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf, Depth> 2.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,191	98	Proposed Pavement
	2,940	30	Brush, Good, HSG A
	6,131	65	Weighted Average
	2,940		47.95% Pervious Area
	3,191		52.05% Impervious Area

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

Summary for Subcatchment C34: SUBCAT C34

Runoff = 1.01 cfs @ 12.09 hrs, Volume= 3,379 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,727	98	Proposed Pavement
	1,065	39	>75% Grass cover, Good, HSG A
	8,792	91	Weighted Average
	1,065		12.11% Pervious Area
	7,727		87.89% Impervious Area

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

Summary for Subcatchment C35: SUBCAT C35

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 965 cf, Depth> 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,325	98	Proposed Pavement
	1,216	39	>75% Grass cover, Good, HSG A
	3,541	78	Weighted Average
	1,216		34.34% Pervious Area
	2,325		65.66% Impervious Area

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

Summary for Subcatchment C36: SUBCAT C36

Runoff = 0.12 cfs @ 12.11 hrs, Volume= 460 cf, Depth> 1.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,589	98	Proposed Pavement
	3,097	30	Brush, Good, HSG A
	4,686	53	Weighted Average
	3,097		66.09% Pervious Area
	1,589		33.91% Impervious Area

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

Summary for Subcatchment C37: SUBCAT C37

Runoff = 0.70 cfs @ 12.10 hrs, Volume= 2,233 cf, Depth> 2.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,620	98	Proposed Pavement
	4,981	39	>75% Grass cover, Good, HSG A
	10,601	70	Weighted Average
	4,981		46.99% Pervious Area
	5,620		53.01% Impervious Area

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

Summary for Subcatchment C38: SUBCAT C38

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 2,173 cf, Depth> 4.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,075	98	Proposed Pavement
	1,325	39	>75% Grass cover, Good, HSG A
	6,400	86	Weighted Average
	1,325		20.70% Pervious Area
	5,075		79.30% Impervious Area

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

Summary for Subcatchment C4: SUBCAT C4

Runoff = 0.23 cfs @ 12.10 hrs, Volume= 800 cf, Depth> 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,976	98	Proposed Pavement
	3,961	39	>75% Grass cover, Good, HSG A
	5,937	59	Weighted Average
	3,961		66.72% Pervious Area
	1,976		33.28% Impervious Area

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

Summary for Subcatchment C5: SUBCAT C5

Runoff = 0.19 cfs @ 12.10 hrs, Volume= 658 cf, Depth> 1.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,663	98	Proposed Pavement
	3,462	39	>75% Grass cover, Good, HSG A
	5,125	58	Weighted Average
	3,462		67.55% Pervious Area
	1,663		32.45% Impervious Area

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

Summary for Subcatchment C6: SUBCAT C6

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 948 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,104	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	2,104	98	Weighted Average
	2,104		100.00% Impervious Area

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

Summary for Subcatchment C7: SUBCAT C7

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 838 cf, Depth> 4.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,980	98	Proposed Pavement
	489	39	>75% Grass cover, Good, HSG A
	2,469	86	Weighted Average
	489		19.81% Pervious Area
	1,980		80.19% Impervious Area

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

Summary for Subcatchment C8: SUBCAT C8

Runoff = 3.66 cfs @ 12.09 hrs, Volume= 12,217 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	27,832	98	Proposed Pavement
	3,957	39	>75% Grass cover, Good, HSG A
	31,789	91	Weighted Average
	3,957		12.45% Pervious Area
	27,832		87.55% Impervious Area

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

Summary for Subcatchment C9: SUBCAT C9

Runoff = 3.32 cfs @ 12.09 hrs, Volume= 12,058 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	26,576	98	Proposed Pavement
	176	39	>75% Grass cover, Good, HSG A
	26,752	98	Weighted Average
	176		0.66% Pervious Area
	26,576		99.34% Impervious Area

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

Summary for Subcatchment D1: SUBCAT D1

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 2,842 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,306	98	Proposed Pavement
	0	39	>75% Grass cover, Good, HSG A
	6,306	98	Weighted Average
	6,306		100.00% Impervious Area

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

Summary for Subcatchment D10: SUBCAT D10

Runoff = 0.92 cfs @ 12.09 hrs, Volume= 3,031 cf, Depth> 4.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,041	98	Proposed Pavement
	1,238	39	>75% Grass cover, Good, HSG A
	8,279	89	Weighted Average
	1,238		14.95% Pervious Area
	7,041		85.05% Impervious Area

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

Summary for Subcatchment D11: SUBCAT D11

Runoff = 2.07 cfs @ 12.09 hrs, Volume= 6,565 cf, Depth> 3.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	15,866	98	Proposed Pavement
	6,242	39	>75% Grass cover, Good, HSG A
	22,108	81	Weighted Average
	6,242		28.23% Pervious Area
	15,866		71.77% Impervious Area

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

Summary for Subcatchment D12: SUBCAT D12

Runoff = 0.96 cfs @ 12.09 hrs, Volume= 3,209 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,394	98	Proposed Pavement
	956	39	>75% Grass cover, Good, HSG A
	8,350	91	Weighted Average
	956		11.45% Pervious Area
	7,394		88.55% Impervious Area

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

Summary for Subcatchment D2: SUBCAT D2

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 4.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	1,422	98	Proposed Pavement
	268	39	>75% Grass cover, Good, HSG A
	1,690	89	Weighted Average
	268		15.86% Pervious Area
	1,422		84.14% Impervious Area

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

Summary for Subcatchment D3: SUBCAT D3

Runoff = 2.21 cfs @ 12.10 hrs, Volume= 7,034 cf, Depth> 2.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	17,650	98	Proposed Pavement
	16,948	39	>75% Grass cover, Good, HSG A
	34,598	69	Weighted Average
	16,948		48.99% Pervious Area
	17,650		51.01% Impervious Area

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

Summary for Subcatchment D4: SUBCAT D4

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 1,116 cf, Depth> 3.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	2,651	98	Proposed Pavement
	1,006	39	>75% Grass cover, Good, HSG A
	3,657	82	Weighted Average
	1,006		27.51% Pervious Area
	2,651		72.49% Impervious Area

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

Summary for Subcatchment D5: SUBCAT D5

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 1,626 cf, Depth> 3.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,983	98	Proposed Pavement
	2,358	39	>75% Grass cover, Good, HSG A
	6,341	76	Weighted Average
	2,358		37.19% Pervious Area
	3,983		62.81% Impervious Area

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

Summary for Subcatchment D6: SUBCAT D6

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 2,137 cf, Depth> 3.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,038	98	Proposed Pavement
	1,595	39	>75% Grass cover, Good, HSG A
	6,633	84	Weighted Average
	1,595		24.05% Pervious Area
	5,038		75.95% Impervious Area

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

Summary for Subcatchment D7: SUBCAT D7

Runoff = 1.83 cfs @ 12.09 hrs, Volume= 5,936 cf, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	13,857	98	Proposed Pavement
	3,183	39	>75% Grass cover, Good, HSG A
	17,040	87	Weighted Average
	3,183		18.68% Pervious Area
	13,857		81.32% Impervious Area

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

Summary for Subcatchment D8: SUBCAT D8

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 2,834 cf, Depth> 4.39"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,511	98	Proposed Pavement
	1,229	39	>75% Grass cover, Good, HSG A
	7,740	89	Weighted Average
	1,229		15.88% Pervious Area
	6,511		84.12% Impervious Area

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

Summary for Subcatchment D9: SUBCAT D9

Runoff = 2.07 cfs @ 12.09 hrs, Volume= 6,711 cf, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	15,659	98	Proposed Pavement
	3,606	39	>75% Grass cover, Good, HSG A
	19,265	87	Weighted Average
	3,606		18.72% Pervious Area
	15,659		81.28% Impervious Area

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

Summary for Subcatchment E1: SUBCAT E1

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,378 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	5,394	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	5,639	95	Weighted Average
	245		4.34% Pervious Area
	5,394		95.66% Impervious Area

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

Summary for Subcatchment E10: SUBCAT E10

Runoff = 0.88 cfs @ 12.09 hrs, Volume= 2,766 cf, Depth> 2.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,826	98	Proposed Pavement
	4,302	39	>75% Grass cover, Good, HSG A
	11,128	75	Weighted Average
	4,302		38.66% Pervious Area
	6,826		61.34% Impervious Area

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

Summary for Subcatchment E11: SUBCAT E11

Runoff = 2.81 cfs @ 12.09 hrs, Volume= 9,636 cf, Depth> 4.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	21,962	98	Proposed Pavement
	1,413	39	>75% Grass cover, Good, HSG A
	23,375	94	Weighted Average
	1,413		6.04% Pervious Area
	21,962		93.96% Impervious Area

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

Summary for Subcatchment E12: SUBCAT E12

Runoff = 2.29 cfs @ 12.09 hrs, Volume= 7,942 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	17,915	98	Proposed Pavement
	918	39	>75% Grass cover, Good, HSG A
	18,833	95	Weighted Average
	918		4.87% Pervious Area
	17,915		95.13% Impervious Area

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

Summary for Subcatchment E13: SUBCAT E13

Runoff = 4.30 cfs @ 12.09 hrs, Volume= 14,958 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	33,543	98	Proposed Pavement
	1,924	39	>75% Grass cover, Good, HSG A
	35,467	95	Weighted Average
	1,924		5.42% Pervious Area
	33,543		94.58% Impervious Area

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

Summary for Subcatchment E14: SUBCAT E14

Runoff = 3.43 cfs @ 12.09 hrs, Volume= 12,263 cf, Depth> 5.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	27,291	98	Proposed Pavement
	517	39	>75% Grass cover, Good, HSG A
	27,808	97	Weighted Average
	517		1.86% Pervious Area
	27,291		98.14% Impervious Area

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

Summary for Subcatchment E15: SUBCAT E15

Runoff = 4.00 cfs @ 12.09 hrs, Volume= 14,284 cf, Depth> 5.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,789	98	Proposed Pavement
	603	39	>75% Grass cover, Good, HSG A
	32,392	97	Weighted Average
	603		1.86% Pervious Area
	31,789		98.14% Impervious Area

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

Summary for Subcatchment E16: SUBCAT E16

Runoff = 3.09 cfs @ 12.09 hrs, Volume= 9,900 cf, Depth> 3.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	23,459	98	Proposed Pavement
	7,262	39	>75% Grass cover, Good, HSG A
	30,721	84	Weighted Average
	7,262		23.64% Pervious Area
	23,459		76.36% Impervious Area

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

Summary for Subcatchment E17: SUBCAT E17

Runoff = 0.01 cfs @ 17.15 hrs, Volume= 396 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	30,658	30	Brush, Good, HSG A
	89,860	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	120,518	30	Weighted Average
	120,518		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	55	0.1200	1.73		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.4	85	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
7.2	190	Total			

Summary for Subcatchment E18: SUBCAT E18

Runoff = 0.00 cfs @ 17.13 hrs, Volume= 39 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	11,752	30	Brush, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	11,752	30	Weighted Average
	11,752		100.00% Pervious Area

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

Summary for Subcatchment E19: SUBCAT E19

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 249 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	43,151	30	Brush, Good, HSG A
	32,602	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	75,753	30	Weighted Average
	75,753		100.00% Pervious Area

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

Summary for Subcatchment E2: SUBCAT E2

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 2,910 cf, Depth> 5.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,501	98	Proposed Pavement
	245	39	>75% Grass cover, Good, HSG A
	6,746	96	Weighted Average
	245		3.63% Pervious Area
	6,501		96.37% Impervious Area

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

Summary for Subcatchment E3: SUBCAT E3

Runoff = 1.22 cfs @ 12.09 hrs, Volume= 4,204 cf, Depth> 4.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	9,518	98	Proposed Pavement
	679	39	>75% Grass cover, Good, HSG A
	10,197	94	Weighted Average
	679		6.66% Pervious Area
	9,518		93.34% Impervious Area

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

Summary for Subcatchment E4: SUBCAT E4

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 4,258 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	9,769	98	Proposed Pavement
	1,309	39	>75% Grass cover, Good, HSG A
	11,078	91	Weighted Average
	1,309		11.82% Pervious Area
	9,769		88.18% Impervious Area

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

Summary for Subcatchment E5: SUBCAT E5

Runoff = 0.86 cfs @ 12.09 hrs, Volume= 2,732 cf, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	6,532	98	Proposed Pavement
	3,208	39	>75% Grass cover, Good, HSG A
	9,740	79	Weighted Average
	3,208		32.94% Pervious Area
	6,532		67.06% Impervious Area

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

Summary for Subcatchment E6: SUBCAT E6

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 3,707 cf, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	8,885	98	Proposed Pavement
	4,330	39	>75% Grass cover, Good, HSG A
	13,215	79	Weighted Average
	4,330		32.77% Pervious Area
	8,885		67.23% Impervious Area

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

Summary for Subcatchment E7: SUBCAT E7

Runoff = 1.08 cfs @ 12.09 hrs, Volume= 3,666 cf, Depth> 4.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	8,274	98	Proposed Pavement
	826	39	>75% Grass cover, Good, HSG A
	9,100	93	Weighted Average
	826		9.08% Pervious Area
	8,274		90.92% Impervious Area

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

Summary for Subcatchment E8: SUBCAT E8

Runoff = 1.49 cfs @ 12.09 hrs, Volume= 4,997 cf, Depth> 4.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	11,495	98	Proposed Pavement
	1,202	39	>75% Grass cover, Good, HSG A
	12,697	92	Weighted Average
	1,202		9.47% Pervious Area
	11,495		90.53% Impervious Area

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

Summary for Subcatchment E9: SUBCAT E9

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,682 cf, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	3,786	98	Proposed Pavement
	202	39	>75% Grass cover, Good, HSG A
	3,988	95	Weighted Average
	202		5.07% Pervious Area
	3,786		94.93% Impervious Area

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

Summary for Subcatchment G1: SUBCAT G1

Runoff = 0.02 cfs @ 17.21 hrs, Volume= 664 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	130,014	30	Brush, Good, HSG A
	73,521	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	203,535	30	Weighted Average
	203,535		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.3	214	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.1	36	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0	790	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030 Stream, clean & straight
11.8	1,090	Total			

Summary for Subcatchment K: SUBCAT K

Runoff = 2.58 cfs @ 12.26 hrs, Volume= 17,610 cf, Depth> 0.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	30,443	61	>75% Grass cover, Good, HSG B
	67,128	55	Woods, Good, HSG B
*	16,485	98	Ex. Wetland
*	7,709	98	Ex. Building
*	772	98	Ex. Pavement
	36,534	39	>75% Grass cover, Good, HSG A
	159,400	30	Woods, Good, HSG A
	318,471	45	Weighted Average
	293,505		92.16% Pervious Area
	24,966		7.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.6	50	0.1600	0.15		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
2.4	226	0.1000	1.58		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	32	0.5000	3.54		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
2.4	915	0.0200	6.40	147.25	**Trap/Vee/Rect Channel Flow,** Bot.W=20.00' D=1.00' Z= 3.0 '/' Top.W=26.00' n= 0.030 Earth, grassed & winding
10.6	1,223	Total			

Summary for Subcatchment L: SUBCAT L

Runoff = 1.61 cfs @ 12.30 hrs, Volume= 13,007 cf, Depth> 0.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	75,110	61	>75% Grass cover, Good, HSG B
	51,028	55	Woods, Good, HSG B
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	24,329	39	>75% Grass cover, Good, HSG A
	162,646	30	Woods, Good, HSG A
	313,113	42	Weighted Average
	313,113		100.00% Pervious Area

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

Summary for Subcatchment R1: SUBCAT R1

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R10: SUBCAT R10

Runoff = 4.02 cfs @ 12.09 hrs, Volume= 14,604 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	32,400	98	Proposed Building
	32,400		100.00% Impervious Area

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

Summary for Subcatchment R11: SUBCAT R11

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R12: SUBCAT R12

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R13: SUBCAT R13

Runoff = 3.27 cfs @ 12.09 hrs, Volume= 11,866 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R14: SUBCAT R14

Runoff = 3.54 cfs @ 12.09 hrs, Volume= 12,880 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R15: SUBCAT R15

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R16: SUBCAT R16

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R17: SUBCAT R17

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R18: SUBCAT R18

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment R2: SUBCAT R2

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R3: SUBCAT R3

Runoff = 7.03 cfs @ 12.09 hrs, Volume= 25,557 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	56,700	98	Proposed Building
	56,700		100.00% Impervious Area

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

Summary for Subcatchment R4: SUBCAT R4

Runoff = 3.27 cfs @ 12.09 hrs, Volume= 11,866 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	26,325	98	Proposed Building
	26,325		100.00% Impervious Area

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

Summary for Subcatchment R5: SUBCAT R5

Runoff = 3.54 cfs @ 12.09 hrs, Volume= 12,880 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	28,575	98	Proposed Building
	28,575		100.00% Impervious Area

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

Summary for Subcatchment R6: SUBCAT R6

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R7: SUBCAT R7

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R8: SUBCAT R8

Runoff = 3.91 cfs @ 12.09 hrs, Volume= 14,199 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	31,500	98	Proposed Building
	31,500		100.00% Impervious Area

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

Summary for Subcatchment R9: SUBCAT R9

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
*	7,200	98	Proposed Building
	7,200		100.00% Impervious Area

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

Summary for Subcatchment S1: SUBCAT S1

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 188 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	816	39	>75% Grass cover, Good, HSG A
	56,296	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	57,112	30	Weighted Average
	57,112		100.00% Pervious Area

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

Summary for Subcatchment S10: SUBCAT S10

Runoff = 0.04 cfs @ 14.74 hrs, Volume= 1,178 cf, Depth> 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	19,991	30	Brush, Good, HSG A
	70,751	30	Woods, Good, HSG A
*	5,910	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	96,652	34	Weighted Average
	90,742		93.89% Pervious Area
	5,910		6.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
1.5	105	0.0570	1.19		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.8	300	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
12.0	455	Total			

Summary for Subcatchment S11: SUBCAT S11

Runoff = 0.39 cfs @ 12.36 hrs, Volume= 3,747 cf, Depth> 0.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	38,318	30	Brush, Good, HSG A
	58,186	30	Woods, Good, HSG A
*	15,394	98	Ex. Wetland
*	0	98	Ex. Building
*	1,378	98	Ex. Pavement
	113,276	40	Weighted Average
	96,504		85.19% Pervious Area
	16,772		14.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	50	0.2400	0.18		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
0.5	62	0.1600	2.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.6	215	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
5.9	327	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment S12: SUBCAT S12

Runoff = 0.10 cfs @ 12.33 hrs, Volume= 862 cf, Depth> 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	22,313	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	573	98	Ex. Pavement
*	258	98	Proposed Pavement
	23,144	41	Weighted Average
	22,313		96.41% Pervious Area
	831		3.59% Impervious Area

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

Summary for Subcatchment S13: SUBCAT S13

Runoff = 1.56 cfs @ 12.09 hrs, Volume= 5,253 cf, Depth> 4.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	1,445	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	6,578	98	Ex. Pavement
*	5,325	98	Proposed Pavement
	13,348	92	Weighted Average
	1,445		10.83% Pervious Area
	11,903		89.17% Impervious Area

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

Summary for Subcatchment S14: SUBCAT S14

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 4,543 cf, Depth> 4.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	1,350	39	>75% Grass cover, Good, HSG A
	0	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	4,039	98	Ex. Pavement
*	6,431	98	Proposed Pavement
	11,820	91	Weighted Average
	1,350		11.42% Pervious Area
	10,470		88.58% Impervious Area

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

Summary for Subcatchment S2: SUBCAT S2

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 236 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	4,954	30	Brush, Good, HSG A
	66,769	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,723	30	Weighted Average
	71,723		100.00% Pervious Area

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

Summary for Subcatchment S3: SUBCAT S3

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 332 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	76,797	30	Brush, Good, HSG A
	24,152	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	100,949	30	Weighted Average
	100,949		100.00% Pervious Area

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

Summary for Subcatchment S4: SUBCAT S4

Runoff = 0.02 cfs @ 17.21 hrs, Volume= 695 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	61,547	30	Brush, Good, HSG A
	151,359	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	212,906	30	Weighted Average
	212,906		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	50	0.2800	0.19		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
7.2	480	0.0500	1.12		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.7	530	Total			

Summary for Subcatchment S5: SUBCAT S5

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 173 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	46,285	30	Brush, Good, HSG A
	6,361	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	52,646	30	Weighted Average
	52,646		100.00% Pervious Area

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

Summary for Subcatchment S6: SUBCAT S6

Runoff = 0.01 cfs @ 17.13 hrs, Volume= 236 cf, Depth> 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	68,947	30	Brush, Good, HSG A
	2,803	30	Woods, Good, HSG A
*	0	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
	71,750	30	Weighted Average
	71,750		100.00% Pervious Area

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

Summary for Subcatchment S8: SUBCAT S8

Runoff = 0.26 cfs @ 13.83 hrs, Volume= 6,738 cf, Depth> 0.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-YR Rainfall=5.65"

	Area (sf)	CN	Description
	100,530	30	Brush, Good, HSG A
	310,010	30	Woods, Good, HSG A
*	33,536	98	Ex. Wetland
*	0	98	Ex. Building
*	0	98	Ex. Pavement
*	2,426	98	Proposed Building
	446,502	35	Weighted Average
	410,540		91.95% Pervious Area
	35,962		8.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	50	0.4000	0.22		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.95"
5.0	353	0.0560	1.18		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
4.7	1,850	0.0200	6.50	182.01	**Trap/Vee/Rect Channel Flow,** Bot.W=25.00' D=1.00' Z= 3.0 '/' Top.W=31.00' n= 0.030
13.6	2,253	Total			

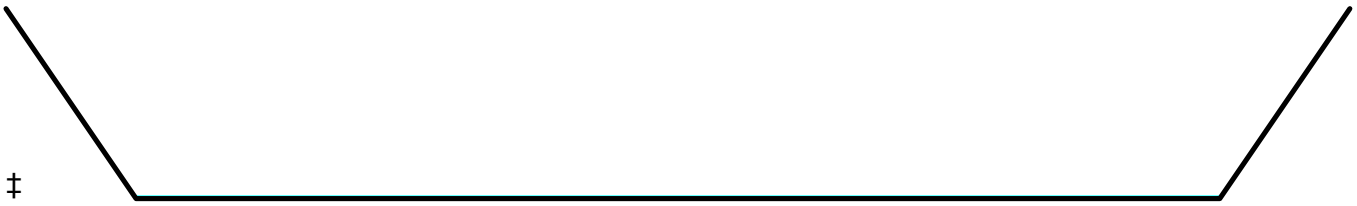
Summary for Reach ER4: EX REACH 4

Inflow Area = 436,607 sf, 5.39% Impervious, Inflow Depth > 0.13" for 25-YR event
Inflow = 0.26 cfs @ 12.58 hrs, Volume= 4,839 cf
Outflow = 0.19 cfs @ 13.99 hrs, Volume= 4,587 cf, Atten= 28%, Lag= 84.7 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.46 fps, Min. Travel Time= 46.9 min
Avg. Velocity = 0.36 fps, Avg. Travel Time= 59.1 min

Peak Storage= 532 cf @ 13.99 hrs
Average Depth at Peak Storage= 0.02'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 176.06 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,291.0' Slope= 0.0187 '/'
Inlet Invert= 140.00', Outlet Invert= 115.84'



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Summary for Reach ER5: EX REACH 5

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth > 0.05" for 25-YR event
Inflow = 0.45 cfs @ 13.88 hrs, Volume= 11,325 cf
Outflow = 0.44 cfs @ 14.40 hrs, Volume= 10,949 cf, Atten= 2%, Lag= 30.7 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.67 fps, Min. Travel Time= 27.2 min
Avg. Velocity = 0.54 fps, Avg. Travel Time= 33.8 min

Peak Storage= 713 cf @ 14.40 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 192.80 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 1,085.0' Slope= 0.0224 '/'
Inlet Invert= 115.35', Outlet Invert= 91.00'

‡

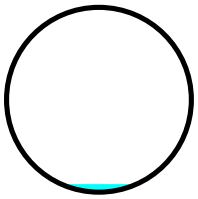
Summary for Reach RG: REACH G

Inflow Area = 203,535 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.02 cfs @ 17.21 hrs, Volume= 664 cf
Outflow = 0.02 cfs @ 17.23 hrs, Volume= 662 cf, Atten= 0%, Lag= 1.1 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.90 fps, Min. Travel Time= 1.6 min
Avg. Velocity = 1.81 fps, Avg. Travel Time= 1.7 min

Peak Storage= 2 cf @ 17.23 hrs
Average Depth at Peak Storage= 0.04'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 6.43 cfs

12.0" Round Pipe
n= 0.012
Length= 180.0' Slope= 0.0278 '/'
Inlet Invert= 155.00', Outlet Invert= 150.00'



Summary for Reach W1: WETLAND REACH 1

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth = 0.00" for 25-YR event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 0.00 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 0.00 hrs
Average Depth at Peak Storage= 0.00'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 177.62 cfs

25.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 420.0' Slope= 0.0190 '/'
Inlet Invert= 152.00', Outlet Invert= 144.00'

‡

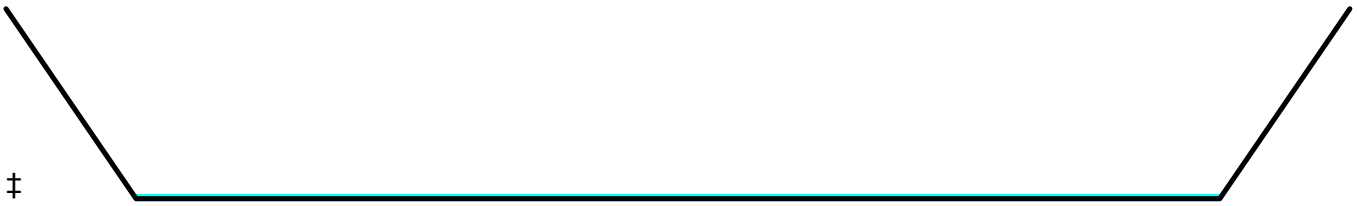
Summary for Reach W2: WETLAND REACH 2

Inflow Area = 339,955 sf, 5.18% Impervious, Inflow Depth > 0.13" for 25-YR event
Inflow = 0.39 cfs @ 12.36 hrs, Volume= 3,747 cf
Outflow = 0.26 cfs @ 12.56 hrs, Volume= 3,661 cf, Atten= 35%, Lag= 12.3 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Max. Velocity= 0.40 fps, Min. Travel Time= 20.0 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 31.5 min

Peak Storage= 309 cf @ 12.56 hrs
Average Depth at Peak Storage= 0.03'
Bank-Full Depth= 1.00' Flow Area= 28.0 sf, Capacity= 117.48 cfs

25.00' x 1.00' deep channel, n= 0.030 Stream, clean & straight
Side Slope Z-value= 3.0 '/' Top Width= 31.00'
Length= 480.0' Slope= 0.0083 '/'
Inlet Invert= 144.00', Outlet Invert= 140.00'



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Summary for Pond CA1: CB-A1

Inflow Area = 10,307 sf, 82.48% Impervious, Inflow Depth > 4.30" for 25-YR event
Inflow = 1.07 cfs @ 12.09 hrs, Volume= 3,695 cf
Outflow = 1.07 cfs @ 12.09 hrs, Volume= 3,695 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.07 cfs @ 12.09 hrs, Volume= 3,695 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.29' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.74'	**12.0" Round Culvert** L= 83.0' Ke= 0.500 Inlet / Outlet Invert= 155.74' / 154.91' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=156.28' TW=155.56' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.00 cfs @ 3.34 fps)

Summary for Pond CA2: CB-A2

Inflow Area = 5,412 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.67 cfs @ 12.09 hrs, Volume= 2,439 cf
Outflow = 0.67 cfs @ 12.09 hrs, Volume= 2,439 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.09 hrs, Volume= 2,439 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.69' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.25'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 156.25' / 155.84' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=156.68' TW=156.28' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.61 cfs @ 2.83 fps)

Summary for Pond CA3: CB-A3

Inflow Area = 37,673 sf, 89.92% Impervious, Inflow Depth > 4.74" for 25-YR event
Inflow = 4.41 cfs @ 12.09 hrs, Volume= 14,883 cf
Outflow = 4.41 cfs @ 12.09 hrs, Volume= 14,883 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.41 cfs @ 12.09 hrs, Volume= 14,883 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.05' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.93'	**18.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 153.93' / 153.09' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.30 cfs @ 12.09 hrs HW=155.04' TW=153.89' (Dynamic Tailwater)
1=Culvert (Barrel Controls 4.30 cfs @ 4.28 fps)

Summary for Pond CA4: CB-A4

Inflow Area = 6,616 sf, 89.62% Impervious, Inflow Depth > 4.72" for 25-YR event
Inflow = 0.77 cfs @ 12.09 hrs, Volume= 2,604 cf
Outflow = 0.77 cfs @ 12.09 hrs, Volume= 2,604 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.77 cfs @ 12.09 hrs, Volume= 2,604 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.43' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.93'	**12.0" Round Culvert** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 154.93' / 154.43' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=155.41' TW=155.04' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.68 cfs @ 2.68 fps)

Summary for Pond CC1: CB-C1

Inflow Area = 6,254 sf, 34.70% Impervious, Inflow Depth > 1.62" for 25-YR event
Inflow = 0.25 cfs @ 12.10 hrs, Volume= 843 cf
Outflow = 0.25 cfs @ 12.10 hrs, Volume= 843 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.25 cfs @ 12.10 hrs, Volume= 843 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.59' @ 12.13 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.09' S= 0.0048 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.10 hrs HW=159.58' TW=159.49' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.20 cfs @ 1.34 fps)

Summary for Pond CC10: CB-C10

Inflow Area = 177,794 sf, 87.97% Impervious, Inflow Depth > 4.61" for 25-YR event
Inflow = 20.07 cfs @ 12.09 hrs, Volume= 68,328 cf
Outflow = 20.07 cfs @ 12.09 hrs, Volume= 68,328 cf, Atten= 0%, Lag= 0.0 min
Primary = 20.07 cfs @ 12.09 hrs, Volume= 68,328 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.91' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.48'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 151.48' / 150.63' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=17.57 cfs @ 12.09 hrs HW=153.83' TW=152.93' (Dynamic Tailwater)
1=Culvert (Outlet Controls 17.57 cfs @ 4.75 fps)

Summary for Pond CC11: CB-C11

Inflow Area = 6,044 sf, 71.33% Impervious, Inflow Depth > 3.56" for 25-YR event
Inflow = 0.57 cfs @ 12.09 hrs, Volume= 1,795 cf
Outflow = 0.57 cfs @ 12.09 hrs, Volume= 1,795 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.09 hrs, Volume= 1,795 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.13' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.15' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=156.12' TW=149.52' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.55 cfs @ 2.08 fps)

Summary for Pond CC12: CB-C12

Inflow Area = 107,687 sf, 82.94% Impervious, Inflow Depth > 4.32" for 25-YR event
Inflow = 11.56 cfs @ 12.09 hrs, Volume= 38,748 cf
Outflow = 11.56 cfs @ 12.09 hrs, Volume= 38,748 cf, Atten= 0%, Lag= 0.0 min
Primary = 11.56 cfs @ 12.09 hrs, Volume= 38,748 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.54' @ 12.09 hrs
Flood Elev= 158.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.70'	**24.0" Round Culvert** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 147.70' / 147.35' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=11.28 cfs @ 12.09 hrs HW=149.51' TW=148.57' (Dynamic Tailwater)
1=Culvert (Barrel Controls 11.28 cfs @ 4.96 fps)

Summary for Pond CC13: CB-C13

Inflow Area = 3,872 sf, 77.27% Impervious, Inflow Depth > 3.97" for 25-YR event
Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,281 cf
Outflow = 0.40 cfs @ 12.09 hrs, Volume= 1,281 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.09 hrs, Volume= 1,281 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.06' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=156.06' TW=150.38' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.39 cfs @ 1.89 fps)

Summary for Pond CC14: CB-C14

Inflow Area = 93,302 sf, 84.26% Impervious, Inflow Depth > 4.41" for 25-YR event
Inflow = 10.16 cfs @ 12.09 hrs, Volume= 34,265 cf
Outflow = 10.16 cfs @ 12.09 hrs, Volume= 34,265 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.16 cfs @ 12.09 hrs, Volume= 34,265 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.42' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	148.66'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 148.66' / 147.80' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.13 cfs @ 12.09 hrs HW=150.37' TW=149.51' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 9.13 cfs @ 4.28 fps)

Summary for Pond CC15: CB-C15

Inflow Area = 3,872 sf, 81.40% Impervious, Inflow Depth > 4.18" for 25-YR event
Inflow = 0.42 cfs @ 12.09 hrs, Volume= 1,349 cf
Outflow = 0.42 cfs @ 12.09 hrs, Volume= 1,349 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 12.09 hrs, Volume= 1,349 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.07' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=156.07' TW=151.21' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.41 cfs @ 1.91 fps)

Summary for Pond CC16: CB-C16

Inflow Area = 86,438 sf, 84.03% Impervious, Inflow Depth > 4.39" for 25-YR event
Inflow = 9.39 cfs @ 12.09 hrs, Volume= 31,635 cf
Outflow = 9.39 cfs @ 12.09 hrs, Volume= 31,635 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.39 cfs @ 12.09 hrs, Volume= 31,635 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.25' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.62'	**24.0" Round Culvert** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 149.62' / 148.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.15 cfs @ 12.09 hrs HW=151.21' TW=150.37' (Dynamic Tailwater)
1=Culvert (Outlet Controls 8.15 cfs @ 4.17 fps)

Summary for Pond CC17: CB-C17

Inflow Area = 151,042 sf, 86.68% Impervious, Inflow Depth > 4.53" for 25-YR event
Inflow = 16.83 cfs @ 12.09 hrs, Volume= 57,045 cf
Outflow = 16.83 cfs @ 12.09 hrs, Volume= 57,045 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.83 cfs @ 12.09 hrs, Volume= 57,045 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.60' @ 12.12 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.40'	**30.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 152.40' / 151.58' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.51 cfs @ 12.09 hrs HW=154.51' TW=153.83' (Dynamic Tailwater)
1=Culvert (Outlet Controls 13.51 cfs @ 4.11 fps)

Summary for Pond CC18: CB-C18

Inflow Area = 125,536 sf, 84.98% Impervious, Inflow Depth > 4.42" for 25-YR event
Inflow = 13.73 cfs @ 12.09 hrs, Volume= 46,289 cf
Outflow = 13.73 cfs @ 12.09 hrs, Volume= 46,289 cf, Atten= 0%, Lag= 0.0 min
Primary = 13.73 cfs @ 12.09 hrs, Volume= 46,289 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.26' @ 12.12 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.34'	**30.0" Round Culvert** L= 168.0' Ke= 0.500 Inlet / Outlet Invert= 153.34' / 152.50' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.29 cfs @ 12.09 hrs HW=155.20' TW=154.52' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 11.29 cfs @ 4.02 fps)

Summary for Pond CC19: CB-C19

Inflow Area = 98,449 sf, 81.01% Impervious, Inflow Depth > 4.15" for 25-YR event
Inflow = 10.37 cfs @ 12.09 hrs, Volume= 34,079 cf
Outflow = 10.37 cfs @ 12.09 hrs, Volume= 34,079 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.37 cfs @ 12.09 hrs, Volume= 34,079 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.37' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.75'	**24.0" Round Culvert** L= 181.0' Ke= 0.500 Inlet / Outlet Invert= 154.75' / 153.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.48 cfs @ 12.09 hrs HW=156.35' TW=155.20' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 9.48 cfs @ 4.83 fps)

Summary for Pond CC2: CB-C2

Inflow Area = 10,503 sf, 53.18% Impervious, Inflow Depth > 2.61" for 25-YR event
Inflow = 0.69 cfs @ 12.09 hrs, Volume= 2,286 cf
Outflow = 0.69 cfs @ 12.09 hrs, Volume= 2,286 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.69 cfs @ 12.09 hrs, Volume= 2,286 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.49' @ 12.11 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.99'	**12.0" Round Culvert** L= 56.0' Ke= 0.500 Inlet / Outlet Invert= 158.99' / 158.71' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=159.48' TW=159.19' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.61 cfs @ 2.32 fps)

Summary for Pond CC20: CB-C20

Inflow Area = 79,574 sf, 83.55% Impervious, Inflow Depth > 4.36" for 25-YR event
Inflow = 8.60 cfs @ 12.09 hrs, Volume= 28,938 cf
Outflow = 8.60 cfs @ 12.09 hrs, Volume= 28,938 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.60 cfs @ 12.09 hrs, Volume= 28,938 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.10' @ 12.11 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.57'	**24.0" Round Culvert** L= 169.0' Ke= 0.500 Inlet / Outlet Invert= 150.57' / 149.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.59 cfs @ 12.09 hrs HW=152.06' TW=151.21' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.59 cfs @ 4.19 fps)

Summary for Pond CC21: CB-C21

Inflow Area = 3,610 sf, 79.03% Impervious, Inflow Depth > 4.07" for 25-YR event
Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,226 cf
Outflow = 0.38 cfs @ 12.09 hrs, Volume= 1,226 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.38 cfs @ 12.09 hrs, Volume= 1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.05' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=156.05' TW=152.07' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.37 cfs @ 1.87 fps)

Summary for Pond CC22: CB-C22

Inflow Area = 3,940 sf, 77.16% Impervious, Inflow Depth > 3.97" for 25-YR event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 1,304 cf
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 1,304 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 1,304 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.07' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.23' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=156.06' TW=152.95' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.40 cfs @ 1.90 fps)

Summary for Pond CC23: CB-C23

Inflow Area = 72,272 sf, 83.88% Impervious, Inflow Depth > 4.39" for 25-YR event
Inflow = 7.82 cfs @ 12.09 hrs, Volume= 26,426 cf
Outflow = 7.82 cfs @ 12.09 hrs, Volume= 26,426 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.82 cfs @ 12.09 hrs, Volume= 26,426 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.97' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.54'	**24.0" Round Culvert** L= 173.0' Ke= 0.500 Inlet / Outlet Invert= 151.54' / 150.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.98 cfs @ 12.09 hrs HW=152.94' TW=152.06' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 6.98 cfs @ 4.17 fps)

Summary for Pond CC24: CB-C24

Inflow Area = 21,488 sf, 69.19% Impervious, Inflow Depth > 3.52" for 25-YR event
Inflow = 1.89 cfs @ 12.09 hrs, Volume= 6,302 cf
Outflow = 1.89 cfs @ 12.09 hrs, Volume= 6,302 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.89 cfs @ 12.09 hrs, Volume= 6,302 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.57' @ 12.09 hrs
Flood Elev= 159.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.81'	**12.0" Round Culvert** L= 42.0' Ke= 0.500 Inlet / Outlet Invert= 154.81' / 153.59' S= 0.0290 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=155.56' TW=153.90' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 1.85 cfs @ 2.94 fps)

Summary for Pond CC25: CB-C25

Inflow Area = 64,908 sf, 83.95% Impervious, Inflow Depth > 4.40" for 25-YR event
Inflow = 7.02 cfs @ 12.09 hrs, Volume= 23,775 cf
Outflow = 7.02 cfs @ 12.09 hrs, Volume= 23,775 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.02 cfs @ 12.09 hrs, Volume= 23,775 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.92' @ 12.10 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.59'	**24.0" Round Culvert** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 152.59' / 151.64' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.35 cfs @ 12.09 hrs HW=153.90' TW=152.94' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.35 cfs @ 4.15 fps)

Summary for Pond CC26: CB-C26

Inflow Area = 10,538 sf, 83.28% Impervious, Inflow Depth > 4.34" for 25-YR event
Inflow = 1.12 cfs @ 12.09 hrs, Volume= 3,814 cf
Outflow = 1.12 cfs @ 12.09 hrs, Volume= 3,814 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.12 cfs @ 12.09 hrs, Volume= 3,814 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.71' @ 12.09 hrs
Flood Elev= 163.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.16'	**12.0" Round Culvert** L= 41.0' Ke= 0.500 Inlet / Outlet Invert= 158.16' / 157.24' S= 0.0224 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.10 cfs @ 12.09 hrs HW=158.70' TW=157.96' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.10 cfs @ 2.51 fps)

Summary for Pond CC27: CB-C27

Inflow Area = 46,327 sf, 80.53% Impervious, Inflow Depth > 4.09" for 25-YR event
Inflow = 4.78 cfs @ 12.09 hrs, Volume= 15,780 cf
Outflow = 4.78 cfs @ 12.09 hrs, Volume= 15,780 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.78 cfs @ 12.09 hrs, Volume= 15,780 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.70' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.45'	**18.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 157.45' / 156.84' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.39 cfs @ 12.09 hrs HW=158.68' TW=157.96' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 4.39 cfs @ 3.85 fps)

Summary for Pond CC28: CB-C28

Inflow Area = 38,084 sf, 78.73% Impervious, Inflow Depth > 3.97" for 25-YR event
Inflow = 3.83 cfs @ 12.09 hrs, Volume= 12,612 cf
Outflow = 3.83 cfs @ 12.09 hrs, Volume= 12,612 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.83 cfs @ 12.09 hrs, Volume= 12,612 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.39' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.20'	**15.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 158.20' / 157.70' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=3.50 cfs @ 12.09 hrs HW=159.37' TW=158.68' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 3.50 cfs @ 3.80 fps)

Summary for Pond CC29: CB-C29

Inflow Area = 8,005 sf, 80.45% Impervious, Inflow Depth > 4.19" for 25-YR event
Inflow = 0.82 cfs @ 12.09 hrs, Volume= 2,794 cf
Outflow = 0.82 cfs @ 12.09 hrs, Volume= 2,794 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.82 cfs @ 12.09 hrs, Volume= 2,794 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.26' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.80'	**12.0" Round Culvert** L= 77.0' Ke= 0.500 Inlet / Outlet Invert= 159.80' / 158.26' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=160.26' TW=158.70' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.80 cfs @ 2.30 fps)

Summary for Pond CC3: CB-C3

Inflow Area = 11,812 sf, 56.98% Impervious, Inflow Depth > 2.83" for 25-YR event
Inflow = 0.84 cfs @ 12.09 hrs, Volume= 2,789 cf
Outflow = 0.84 cfs @ 12.09 hrs, Volume= 2,789 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.84 cfs @ 12.09 hrs, Volume= 2,789 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.20' @ 12.11 hrs
Flood Elev= 163.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.61'	**12.0" Round Culvert** L= 75.0' Ke= 0.500 Inlet / Outlet Invert= 158.61' / 158.24' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.77 cfs @ 12.09 hrs HW=159.19' TW=158.87' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.77 cfs @ 2.35 fps)

Summary for Pond CC30: CB-C30

Inflow Area = 3,220 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,451 cf
Outflow = 0.40 cfs @ 12.09 hrs, Volume= 1,451 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.09 hrs, Volume= 1,451 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.73' @ 12.09 hrs
Flood Elev= 165.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.42'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 160.42' / 159.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=160.73' TW=160.26' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.39 cfs @ 1.89 fps)

Summary for Pond CC31: CB-C31

Inflow Area = 28,995 sf, 76.60% Impervious, Inflow Depth > 3.84" for 25-YR event
Inflow = 2.82 cfs @ 12.09 hrs, Volume= 9,284 cf
Outflow = 2.82 cfs @ 12.09 hrs, Volume= 9,284 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.82 cfs @ 12.09 hrs, Volume= 9,284 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.01' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.96'	**15.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 158.96' / 158.30' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.56 cfs @ 12.09 hrs HW=159.98' TW=159.37' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 2.56 cfs @ 3.23 fps)

Summary for Pond CC32: CB-C32

Inflow Area = 10,841 sf, 58.84% Impervious, Inflow Depth > 2.65" for 25-YR event
Inflow = 0.75 cfs @ 12.09 hrs, Volume= 2,393 cf
Outflow = 0.75 cfs @ 12.09 hrs, Volume= 2,393 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.75 cfs @ 12.09 hrs, Volume= 2,393 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.74' @ 12.09 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.75' S= 0.0292 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=161.74' TW=160.49' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.74 cfs @ 2.25 fps)

Summary for Pond CC33: CB-C33

Inflow Area = 6,131 sf, 52.05% Impervious, Inflow Depth > 2.10" for 25-YR event
Inflow = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf
Outflow = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 162.43' @ 12.10 hrs
Flood Elev= 165.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	162.15'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 162.15' / 161.40' S= 0.0288 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.10 hrs HW=162.43' TW=161.74' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.33 cfs @ 1.81 fps)

Summary for Pond CC34: CB-C34

Inflow Area = 19,633 sf, 71.85% Impervious, Inflow Depth > 3.53" for 25-YR event
Inflow = 1.76 cfs @ 12.09 hrs, Volume= 5,772 cf
Outflow = 1.76 cfs @ 12.09 hrs, Volume= 5,772 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.76 cfs @ 12.09 hrs, Volume= 5,772 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.49' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.65'	**12.0" Round Culvert** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 159.65' / 159.21' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.55 cfs @ 12.09 hrs HW=160.48' TW=159.99' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.55 cfs @ 3.02 fps)

Summary for Pond CC35: CB-C35

Inflow Area = 18,828 sf, 50.64% Impervious, Inflow Depth > 2.33" for 25-YR event
Inflow = 1.13 cfs @ 12.10 hrs, Volume= 3,657 cf
Outflow = 1.13 cfs @ 12.10 hrs, Volume= 3,657 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.13 cfs @ 12.10 hrs, Volume= 3,657 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.53' @ 12.10 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.98'	**12.0" Round Culvert** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 158.98' / 156.25' S= 0.0303 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.12 cfs @ 12.10 hrs HW=159.53' TW=156.88' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.12 cfs @ 2.52 fps)

Summary for Pond CC36: CB-C36

Inflow Area = 4,686 sf, 33.91% Impervious, Inflow Depth > 1.18" for 25-YR event
Inflow = 0.12 cfs @ 12.11 hrs, Volume= 460 cf
Outflow = 0.12 cfs @ 12.11 hrs, Volume= 460 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.11 hrs, Volume= 460 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 160.32' @ 12.11 hrs
Flood Elev= 163.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.15'	**12.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 160.15' / 159.08' S= 0.0267 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.11 hrs HW=160.32' TW=159.52' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.12 cfs @ 1.39 fps)

Summary for Pond CC37: CB-C37

Inflow Area = 10,601 sf, 53.01% Impervious, Inflow Depth > 2.53" for 25-YR event
Inflow = 0.70 cfs @ 12.10 hrs, Volume= 2,233 cf
Outflow = 0.70 cfs @ 12.10 hrs, Volume= 2,233 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.10 hrs, Volume= 2,233 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.76' @ 12.11 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.25'	**12.0" Round Culvert** L= 34.0' Ke= 0.500 Inlet / Outlet Invert= 159.25' / 159.08' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.64 cfs @ 12.10 hrs HW=159.76' TW=159.53' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.64 cfs @ 2.33 fps)

Summary for Pond CC38: CB-C38

Inflow Area = 6,400 sf, 79.30% Impervious, Inflow Depth > 4.07" for 25-YR event
Inflow = 0.67 cfs @ 12.09 hrs, Volume= 2,173 cf
Outflow = 0.67 cfs @ 12.09 hrs, Volume= 2,173 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.09 hrs, Volume= 2,173 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.71' @ 12.09 hrs
Flood Elev= 164.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.30'	**12.0" Round Culvert** L= 120.0' Ke= 0.500 Inlet / Outlet Invert= 161.30' / 159.15' S= 0.0179 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=161.71' TW=159.60' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.66 cfs @ 2.18 fps)

Summary for Pond CC4: CB-C4

Inflow Area = 5,937 sf, 33.28% Impervious, Inflow Depth > 1.62" for 25-YR event
Inflow = 0.23 cfs @ 12.10 hrs, Volume= 800 cf
Outflow = 0.23 cfs @ 12.10 hrs, Volume= 800 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 12.10 hrs, Volume= 800 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.75' @ 12.11 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.50'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.50' / 157.24' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.10 hrs HW=157.75' TW=157.50' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.22 cfs @ 2.17 fps)

Summary for Pond CC5: CB-C5

Inflow Area = 5,125 sf, 32.45% Impervious, Inflow Depth > 1.54" for 25-YR event
Inflow = 0.19 cfs @ 12.10 hrs, Volume= 658 cf
Outflow = 0.19 cfs @ 12.10 hrs, Volume= 658 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.10 hrs, Volume= 658 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.67' @ 12.10 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.45'	**12.0" Round Culvert** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 159.45' / 159.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.10 hrs HW=159.66' TW=156.92' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.19 cfs @ 2.31 fps)

Summary for Pond CC6: CB-C6

Inflow Area = 15,635 sf, 49.40% Impervious, Inflow Depth > 2.49" for 25-YR event
Inflow = 0.94 cfs @ 12.10 hrs, Volume= 3,245 cf
Outflow = 0.94 cfs @ 12.10 hrs, Volume= 3,245 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.94 cfs @ 12.10 hrs, Volume= 3,245 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.92' @ 12.09 hrs
Flood Elev= 162.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.42'	**12.0" Round Culvert** L= 73.0' Ke= 0.500 Inlet / Outlet Invert= 156.42' / 155.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.93 cfs @ 12.10 hrs HW=156.92' TW=148.59' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.93 cfs @ 2.40 fps)

Summary for Pond CC7: CB-C7

Inflow Area = 8,406 sf, 47.06% Impervious, Inflow Depth > 2.34" for 25-YR event
Inflow = 0.49 cfs @ 12.10 hrs, Volume= 1,638 cf
Outflow = 0.49 cfs @ 12.10 hrs, Volume= 1,638 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.49 cfs @ 12.10 hrs, Volume= 1,638 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.50' @ 12.10 hrs
Flood Elev= 160.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.14'	**12.0" Round Culvert** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 157.14' / 156.52' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 12.10 hrs HW=157.49' TW=156.92' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.47 cfs @ 2.83 fps)

Summary for Pond CC8: CB-C8

Inflow Area = 236,335 sf, 89.20% Impervious, Inflow Depth > 4.70" for 25-YR event
Inflow = 27.05 cfs @ 12.09 hrs, Volume= 92,603 cf
Outflow = 27.05 cfs @ 12.09 hrs, Volume= 92,603 cf, Atten= 0%, Lag= 0.0 min
Primary = 27.05 cfs @ 12.09 hrs, Volume= 92,603 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.66' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.18'	**36.0" Round Culvert** L= 85.0' Ke= 0.500 Inlet / Outlet Invert= 149.18' / 148.75' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=26.36 cfs @ 12.09 hrs HW=151.61' TW=148.57' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 26.36 cfs @ 5.85 fps)

Summary for Pond CC9: CB-C9

Inflow Area = 204,546 sf, 89.45% Impervious, Inflow Depth > 4.72" for 25-YR event
Inflow = 23.39 cfs @ 12.09 hrs, Volume= 80,386 cf
Outflow = 23.39 cfs @ 12.09 hrs, Volume= 80,386 cf, Atten= 0%, Lag= 0.0 min
Primary = 23.39 cfs @ 12.09 hrs, Volume= 80,386 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.97' @ 12.09 hrs
Flood Elev= 159.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.53'	**30.0" Round Culvert** L= 170.0' Ke= 0.500 Inlet / Outlet Invert= 150.53' / 149.68' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=21.86 cfs @ 12.09 hrs HW=152.93' TW=151.61' (Dynamic Tailwater)
1=Culvert (Outlet Controls 21.86 cfs @ 5.77 fps)

Summary for Pond CD1: CB-D1

Inflow Area = 6,306 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.78 cfs @ 12.09 hrs, Volume= 2,842 cf
Outflow = 0.78 cfs @ 12.09 hrs, Volume= 2,842 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.78 cfs @ 12.09 hrs, Volume= 2,842 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.55' @ 12.09 hrs
Flood Elev= 162.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 144.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 158.33' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=159.55' TW=158.73' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.75 cfs @ 2.82 fps)

Summary for Pond CD10: CB-D10

Inflow Area = 8,279 sf, 85.05% Impervious, Inflow Depth > 4.39" for 25-YR event
Inflow = 0.92 cfs @ 12.09 hrs, Volume= 3,031 cf
Outflow = 0.92 cfs @ 12.09 hrs, Volume= 3,031 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.92 cfs @ 12.09 hrs, Volume= 3,031 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.24' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.12' S= 0.0300 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=159.24' TW=155.91' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.90 cfs @ 2.37 fps)

Summary for Pond CD11: CB-D11

Inflow Area = 153,819 sf, 71.58% Impervious, Inflow Depth > 3.62" for 25-YR event
Inflow = 14.26 cfs @ 12.09 hrs, Volume= 46,449 cf
Outflow = 14.26 cfs @ 12.09 hrs, Volume= 46,449 cf, Atten= 0%, Lag= 0.0 min
Primary = 14.26 cfs @ 12.09 hrs, Volume= 46,449 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.39' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.52'	**24.0" Round Culvert** L= 264.0' Ke= 0.500 Inlet / Outlet Invert= 153.52' / 150.00' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=13.97 cfs @ 12.09 hrs HW=155.36' TW=143.99' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 13.97 cfs @ 4.62 fps)

Summary for Pond CD12: CB-D12

Inflow Area = 20,162 sf, 70.06% Impervious, Inflow Depth > 3.57" for 25-YR event
Inflow = 1.80 cfs @ 12.09 hrs, Volume= 5,998 cf
Outflow = 1.80 cfs @ 12.09 hrs, Volume= 5,998 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.80 cfs @ 12.09 hrs, Volume= 5,998 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.87' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.14'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.14' / 154.52' S= 0.0299 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.77 cfs @ 12.09 hrs HW=158.86' TW=155.36' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 1.77 cfs @ 2.90 fps)

Summary for Pond CD2: CB-D2

Inflow Area = 7,996 sf, 96.65% Impervious, Inflow Depth > 5.19" for 25-YR event
Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,461 cf
Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,461 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,461 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.74' @ 12.09 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.23'	**12.0" Round Culvert** L= 91.0' Ke= 0.500 Inlet / Outlet Invert= 158.23' / 156.51' S= 0.0189 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=158.73' TW=157.16' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.94 cfs @ 2.41 fps)

Summary for Pond CD3: CB-D3

Inflow Area = 34,598 sf, 51.01% Impervious, Inflow Depth > 2.44" for 25-YR event
Inflow = 2.21 cfs @ 12.10 hrs, Volume= 7,034 cf
Outflow = 2.21 cfs @ 12.10 hrs, Volume= 7,034 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 12.10 hrs, Volume= 7,034 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.74' @ 12.10 hrs
Flood Elev= 160.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**12.0" Round Culvert** L= 48.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.51' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=2.18 cfs @ 12.10 hrs HW=157.73' TW=157.18' (Dynamic Tailwater)
1=Culvert (Barrel Controls 2.18 cfs @ 3.53 fps)

Summary for Pond CD4: CB-D4

Inflow Area = 59,225 sf, 62.56% Impervious, Inflow Depth > 3.12" for 25-YR event
Inflow = 4.71 cfs @ 12.09 hrs, Volume= 15,375 cf
Outflow = 4.71 cfs @ 12.09 hrs, Volume= 15,375 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.71 cfs @ 12.09 hrs, Volume= 15,375 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.18' @ 12.10 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.01'	**18.0" Round Culvert** L= 165.0' Ke= 0.500 Inlet / Outlet Invert= 156.01' / 155.19' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.26 cfs @ 12.09 hrs HW=157.17' TW=156.23' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 4.26 cfs @ 4.01 fps)

Summary for Pond CD5: CB-D5

Inflow Area = 12,974 sf, 69.53% Impervious, Inflow Depth > 3.48" for 25-YR event
Inflow = 1.18 cfs @ 12.09 hrs, Volume= 3,764 cf
Outflow = 1.18 cfs @ 12.09 hrs, Volume= 3,764 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.09 hrs, Volume= 3,764 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.32' @ 12.09 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.51' S= 0.0477 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.16 cfs @ 12.09 hrs HW=158.31' TW=157.17' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 1.16 cfs @ 2.55 fps)

Summary for Pond CD6: CB-D6

Inflow Area = 6,633 sf, 75.95% Impervious, Inflow Depth > 3.87" for 25-YR event
Inflow = 0.67 cfs @ 12.09 hrs, Volume= 2,137 cf
Outflow = 0.67 cfs @ 12.09 hrs, Volume= 2,137 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.09 hrs, Volume= 2,137 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.63' @ 12.10 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.18'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 158.18' / 157.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=158.62' TW=158.31' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.61 cfs @ 2.67 fps)

Summary for Pond CD7: CB-D7

Inflow Area = 84,005 sf, 68.35% Impervious, Inflow Depth > 3.45" for 25-YR event
Inflow = 7.40 cfs @ 12.09 hrs, Volume= 24,145 cf
Outflow = 7.40 cfs @ 12.09 hrs, Volume= 24,145 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.40 cfs @ 12.09 hrs, Volume= 24,145 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.31' @ 12.14 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.69'	**24.0" Round Culvert** L= 93.0' Ke= 0.500 Inlet / Outlet Invert= 154.69' / 154.22' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.28 cfs @ 12.09 hrs HW=156.22' TW=155.93' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.28 cfs @ 2.83 fps)

Summary for Pond CD8: CB-D8

Inflow Area = 7,740 sf, 84.12% Impervious, Inflow Depth > 4.39" for 25-YR event
Inflow = 0.86 cfs @ 12.09 hrs, Volume= 2,834 cf
Outflow = 0.86 cfs @ 12.09 hrs, Volume= 2,834 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.86 cfs @ 12.09 hrs, Volume= 2,834 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.23' @ 12.09 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.75'	**12.0" Round Culvert** L= 121.0' Ke= 0.500 Inlet / Outlet Invert= 158.75' / 155.69' S= 0.0253 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.84 cfs @ 12.09 hrs HW=159.22' TW=156.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.84 cfs @ 2.33 fps)

Summary for Pond CD9: CB-D9

Inflow Area = 111,549 sf, 71.82% Impervious, Inflow Depth > 3.65" for 25-YR event
Inflow = 10.39 cfs @ 12.09 hrs, Volume= 33,887 cf
Outflow = 10.39 cfs @ 12.09 hrs, Volume= 33,887 cf, Atten= 0%, Lag= 0.0 min
Primary = 10.39 cfs @ 12.09 hrs, Volume= 33,887 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.98' @ 12.11 hrs
Flood Elev= 163.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.12'	**24.0" Round Culvert** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 154.12' / 153.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.85 cfs @ 12.09 hrs HW=155.92' TW=155.36' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 8.85 cfs @ 3.92 fps)

Summary for Pond CE1: CB-E1

Inflow Area = 5,639 sf, 95.66% Impervious, Inflow Depth > 5.06" for 25-YR event
Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,378 cf
Outflow = 0.68 cfs @ 12.09 hrs, Volume= 2,378 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.09 hrs, Volume= 2,378 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.27' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.85'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.85' / 154.17' S= 0.0661 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.09 hrs HW=161.26' TW=154.71' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.67 cfs @ 2.18 fps)

Summary for Pond CE10: CB-E10

Inflow Area = 263,128 sf, 98.37% Impervious, Inflow Depth > 5.31" for 25-YR event
Inflow = 32.14 cfs @ 12.09 hrs, Volume= 116,355 cf
Outflow = 32.14 cfs @ 12.09 hrs, Volume= 116,355 cf, Atten= 0%, Lag= 0.0 min
Primary = 32.14 cfs @ 12.09 hrs, Volume= 116,355 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.08' @ 12.37 hrs
Flood Elev= 159.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.52'	**42.0" Round Culvert** L= 43.0' Ke= 0.500 Inlet / Outlet Invert= 150.52' / 150.31' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=17.87 cfs @ 12.09 hrs HW=153.29' TW=153.05' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 17.87 cfs @ 3.01 fps)

Summary for Pond CE11: CB-E11

Inflow Area = 187,424 sf, 88.30% Impervious, Inflow Depth > 4.65" for 25-YR event
Inflow = 21.03 cfs @ 12.09 hrs, Volume= 72,641 cf
Outflow = 21.03 cfs @ 12.09 hrs, Volume= 72,641 cf, Atten= 0%, Lag= 0.0 min
Primary = 21.03 cfs @ 12.09 hrs, Volume= 72,641 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.12' @ 12.36 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.93'	**30.0" Round Culvert** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 150.93' / 150.41' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.65 cfs @ 12.09 hrs HW=153.45' TW=153.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 13.65 cfs @ 3.42 fps)

Summary for Pond CE12: CB-E12

Inflow Area = 164,049 sf, 87.49% Impervious, Inflow Depth > 4.61" for 25-YR event
Inflow = 18.23 cfs @ 12.09 hrs, Volume= 63,005 cf
Outflow = 18.23 cfs @ 12.09 hrs, Volume= 63,005 cf, Atten= 0%, Lag= 0.0 min
Primary = 18.23 cfs @ 12.09 hrs, Volume= 63,005 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.19' @ 12.37 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.66'	**30.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 151.66' / 151.03' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.86 cfs @ 12.09 hrs HW=153.97' TW=153.45' (Dynamic Tailwater)
1=Culvert (Outlet Controls 13.86 cfs @ 3.81 fps)

Summary for Pond CE13: CB-E13

Inflow Area = 145,216 sf, 86.50% Impervious, Inflow Depth > 4.55" for 25-YR event
Inflow = 15.94 cfs @ 12.09 hrs, Volume= 55,062 cf
Outflow = 15.94 cfs @ 12.09 hrs, Volume= 55,062 cf, Atten= 0%, Lag= 0.0 min
Primary = 15.94 cfs @ 12.09 hrs, Volume= 55,062 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.70' @ 12.12 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.57'	**30.0" Round Culvert** L= 161.0' Ke= 0.500 Inlet / Outlet Invert= 152.57' / 151.76' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=12.76 cfs @ 12.09 hrs HW=154.62' TW=153.97' (Dynamic Tailwater)
1=Culvert (Outlet Controls 12.76 cfs @ 4.02 fps)

Summary for Pond CE14: CB-E14

Inflow Area = 109,749 sf, 83.89% Impervious, Inflow Depth > 4.39" for 25-YR event
Inflow = 11.64 cfs @ 12.09 hrs, Volume= 40,104 cf
Outflow = 11.64 cfs @ 12.09 hrs, Volume= 40,104 cf, Atten= 0%, Lag= 0.0 min
Primary = 11.64 cfs @ 12.09 hrs, Volume= 40,104 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.63' @ 12.10 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.85'	**24.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 153.85' / 153.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=10.29 cfs @ 12.09 hrs HW=155.60' TW=154.63' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.29 cfs @ 4.70 fps)

Summary for Pond CE15: CB-E15

Inflow Area = 81,941 sf, 79.06% Impervious, Inflow Depth > 4.08" for 25-YR event
Inflow = 8.21 cfs @ 12.09 hrs, Volume= 27,842 cf
Outflow = 8.21 cfs @ 12.09 hrs, Volume= 27,842 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.21 cfs @ 12.09 hrs, Volume= 27,842 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.24' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.62'	**24.0" Round Culvert** L= 134.0' Ke= 0.500 Inlet / Outlet Invert= 154.62' / 153.95' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.13 cfs @ 12.09 hrs HW=156.19' TW=155.61' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.13 cfs @ 3.70 fps)

Summary for Pond CE16: CB-E16

Inflow Area = 49,549 sf, 66.59% Impervious, Inflow Depth > 3.28" for 25-YR event
Inflow = 4.22 cfs @ 12.09 hrs, Volume= 13,557 cf
Outflow = 4.22 cfs @ 12.09 hrs, Volume= 13,557 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.22 cfs @ 12.09 hrs, Volume= 13,557 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.89' @ 12.11 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.75'	**18.0" Round Culvert** L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 155.75' / 155.12' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.66 cfs @ 12.09 hrs HW=156.87' TW=156.20' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.66 cfs @ 3.60 fps)

Summary for Pond CE17: CB-E17

Inflow Area = 120,518 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.01 cfs @ 17.15 hrs, Volume= 396 cf
Outflow = 0.01 cfs @ 17.15 hrs, Volume= 396 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.01 cfs @ 17.15 hrs, Volume= 396 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.55' @ 17.15 hrs
Flood Elev= 163.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	161.49'	**12.0" Round Culvert** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 161.49' / 160.85' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.01 cfs @ 17.15 hrs HW=161.55' TW=160.83' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.01 cfs @ 1.12 fps)

Summary for Pond CE18: CB-E18

Inflow Area = 11,752 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.00 cfs @ 17.13 hrs, Volume= 39 cf
Outflow = 0.00 cfs @ 17.12 hrs, Volume= 39 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.00 cfs @ 17.12 hrs, Volume= 39 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.77' @ 12.28 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.50'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 156.50' / 156.25' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 17.12 hrs HW=156.52' TW=156.13' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 0.00 cfs @ 0.44 fps)

Summary for Pond CE19: CB-E19

Inflow Area = 75,753 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.01 cfs @ 17.13 hrs, Volume= 249 cf
Outflow = 0.01 cfs @ 17.13 hrs, Volume= 249 cf, Atten= 0%, Lag= 0.1 min
Primary = 0.01 cfs @ 17.13 hrs, Volume= 249 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.44' @ 12.29 hrs
Flood Elev= 159.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.25'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 157.25' / 157.00' S= 0.0051 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.01 cfs @ 17.13 hrs HW=157.30' TW=156.89' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 0.01 cfs @ 0.78 fps)

Summary for Pond CE2: CB-E2

Inflow Area = 127,264 sf, 5.11% Impervious, Inflow Depth > 0.31" for 25-YR event
Inflow = 0.83 cfs @ 12.09 hrs, Volume= 3,306 cf
Outflow = 0.83 cfs @ 12.09 hrs, Volume= 3,306 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.83 cfs @ 12.09 hrs, Volume= 3,306 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 161.21' @ 12.09 hrs
Flood Elev= 164.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	160.75'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 160.75' / 154.57' S= 0.0612 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=161.21' TW=155.11' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 0.80 cfs @ 2.30 fps)

Summary for Pond CE3: CB-E3

Inflow Area = 296,823 sf, 25.34% Impervious, Inflow Depth > 1.35" for 25-YR event
Inflow = 9.77 cfs @ 12.09 hrs, Volume= 33,389 cf
Outflow = 9.77 cfs @ 12.09 hrs, Volume= 33,389 cf, Atten= 0%, Lag= 0.0 min
Primary = 9.77 cfs @ 12.09 hrs, Volume= 33,389 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.73' @ 12.09 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.17'	**24.0" Round Culvert** L= 178.0' Ke= 0.500 Inlet / Outlet Invert= 153.17' / 152.28' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.52 cfs @ 12.09 hrs HW=154.71' TW=153.07' (Dynamic Tailwater)
1=Culvert (Barrel Controls 9.52 cfs @ 5.07 fps)

Summary for Pond CE4: CB-E4

Inflow Area = 280,987 sf, 21.47% Impervious, Inflow Depth > 1.14" for 25-YR event
Inflow = 7.86 cfs @ 12.09 hrs, Volume= 26,808 cf
Outflow = 7.86 cfs @ 12.09 hrs, Volume= 26,808 cf, Atten= 0%, Lag= 0.0 min
Primary = 7.86 cfs @ 12.09 hrs, Volume= 26,808 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.17' @ 12.11 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.57'	**24.0" Round Culvert** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 153.57' / 153.27' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.73 cfs @ 12.09 hrs HW=155.12' TW=154.71' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.73 cfs @ 3.56 fps)

Summary for Pond CE5: CB-E5

Inflow Area = 142,645 sf, 30.88% Impervious, Inflow Depth > 1.62" for 25-YR event
Inflow = 5.76 cfs @ 12.09 hrs, Volume= 19,244 cf
Outflow = 5.76 cfs @ 12.09 hrs, Volume= 19,244 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.76 cfs @ 12.09 hrs, Volume= 19,244 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.84' @ 12.10 hrs
Flood Elev= 159.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.45'	**18.0" Round Culvert** L= 76.0' Ke= 0.500 Inlet / Outlet Invert= 154.45' / 154.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=5.54 cfs @ 12.09 hrs HW=155.82' TW=155.12' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 5.54 cfs @ 4.29 fps)

Summary for Pond CE6: CB-E6

Inflow Area = 132,905 sf, 28.23% Impervious, Inflow Depth > 1.49" for 25-YR event
Inflow = 4.89 cfs @ 12.09 hrs, Volume= 16,512 cf
Outflow = 4.89 cfs @ 12.09 hrs, Volume= 16,512 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.89 cfs @ 12.09 hrs, Volume= 16,512 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.56' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**18.0" Round Culvert** L= 140.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.55' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.42 cfs @ 12.09 hrs HW=156.53' TW=155.82' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 4.42 cfs @ 3.71 fps)

Summary for Pond CE7: CB-E7

Inflow Area = 119,690 sf, 23.92% Impervious, Inflow Depth > 1.28" for 25-YR event
Inflow = 3.72 cfs @ 12.09 hrs, Volume= 12,806 cf
Outflow = 3.72 cfs @ 12.09 hrs, Volume= 12,806 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.72 cfs @ 12.09 hrs, Volume= 12,806 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.15' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.97'	**15.0" Round Culvert** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 155.97' / 155.50' S= 0.0049 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=3.29 cfs @ 12.09 hrs HW=157.13' TW=156.53' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 3.29 cfs @ 3.60 fps)

Summary for Pond CE8: CB-E8

Inflow Area = 98,838 sf, 20.60% Impervious, Inflow Depth > 1.10" for 25-YR event
Inflow = 2.64 cfs @ 12.09 hrs, Volume= 9,101 cf
Outflow = 2.64 cfs @ 12.09 hrs, Volume= 9,101 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.64 cfs @ 12.09 hrs, Volume= 9,101 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.76' @ 12.10 hrs
Flood Elev= 160.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.75'	**15.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.75' / 156.07' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.37 cfs @ 12.09 hrs HW=157.73' TW=157.13' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.37 cfs @ 3.15 fps)

Summary for Pond CE9: CB-E9

Inflow Area = 10,388 sf, 85.30% Impervious, Inflow Depth > 4.45" for 25-YR event
Inflow = 1.16 cfs @ 12.09 hrs, Volume= 3,855 cf
Outflow = 1.16 cfs @ 12.09 hrs, Volume= 3,855 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.16 cfs @ 12.09 hrs, Volume= 3,855 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.61' @ 12.09 hrs
Flood Elev= 162.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	159.05'	**12.0" Round Culvert** L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 159.05' / 157.00' S= 0.0218 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=159.60' TW=157.73' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.13 cfs @ 2.53 fps)

Summary for Pond CS13: CB-S13

Inflow Area = 25,168 sf, 88.89% Impervious, Inflow Depth > 4.67" for 25-YR event
Inflow = 2.92 cfs @ 12.09 hrs, Volume= 9,796 cf
Outflow = 2.92 cfs @ 12.09 hrs, Volume= 9,796 cf, Atten= 0%, Lag= 0.0 min
Primary = 2.92 cfs @ 12.09 hrs, Volume= 9,796 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.90' @ 12.10 hrs
Flood Elev= 158.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.90'	**15.0" Round Culvert** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 154.90' / 154.18' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.74 cfs @ 12.09 hrs HW=155.88' TW=155.04' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 2.74 cfs @ 3.66 fps)

Summary for Pond CS14: CB-S14

Inflow Area = 11,820 sf, 88.58% Impervious, Inflow Depth > 4.61" for 25-YR event
Inflow = 1.36 cfs @ 12.09 hrs, Volume= 4,543 cf
Outflow = 1.36 cfs @ 12.09 hrs, Volume= 4,543 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.36 cfs @ 12.09 hrs, Volume= 4,543 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.78' @ 12.09 hrs
Flood Elev= 159.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.16'	**12.0" Round Culvert** L= 101.0' Ke= 0.500 Inlet / Outlet Invert= 156.16' / 155.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.28 cfs @ 12.09 hrs HW=156.77' TW=155.88' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.28 cfs @ 3.62 fps)

Summary for Pond DC1: DMH-C1

Inflow Area = 56,865 sf, 81.04% Impervious, Inflow Depth > 4.13" for 25-YR event
Inflow = 5.91 cfs @ 12.09 hrs, Volume= 19,594 cf
Outflow = 5.91 cfs @ 12.09 hrs, Volume= 19,594 cf, Atten= 0%, Lag= 0.0 min
Primary = 5.91 cfs @ 12.09 hrs, Volume= 19,594 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.98' @ 12.09 hrs
Flood Elev= 162.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.74'	**18.0" Round Culvert** L= 155.0' Ke= 0.500 Inlet / Outlet Invert= 156.74' / 155.25' S= 0.0096 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=5.77 cfs @ 12.09 hrs HW=157.96' TW=156.35' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 5.77 cfs @ 3.76 fps)

Summary for Pond DC10: DMH-C10

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf
Outflow = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf, Atten= 0%, Lag= 0.0 min
Primary = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 152.50' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.95'	**36.0" Round Culvert** L= 247.0' Ke= 0.500 Inlet / Outlet Invert= 149.95' / 148.72' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=30.42 cfs @ 12.09 hrs HW=152.45' TW=146.05' (Dynamic Tailwater)
1=Culvert (Barrel Controls 30.42 cfs @ 6.54 fps)

Summary for Pond DC11: DMH-C11

Inflow Area = 359,657 sf, 85.59% Impervious, Inflow Depth > 4.49" for 25-YR event
Inflow = 39.56 cfs @ 12.09 hrs, Volume= 134,596 cf
Outflow = 39.56 cfs @ 12.09 hrs, Volume= 134,596 cf, Atten= 0%, Lag= 0.0 min
Primary = 39.56 cfs @ 12.09 hrs, Volume= 134,596 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.62' @ 12.09 hrs
Flood Elev= 160.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.85'	**42.0" Round Culvert** L= 174.0' Ke= 0.500 Inlet / Outlet Invert= 145.85' / 144.98' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=38.56 cfs @ 12.09 hrs HW=148.57' TW=146.06' (Dynamic Tailwater)
1=Culvert (Barrel Controls 38.56 cfs @ 6.62 fps)

Summary for Pond DC2: DMH-C2

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.31' @ 12.10 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=158.29' TW=157.63' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.80 cfs @ 2.68 fps)

Summary for Pond DC3: DMH-C3

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf
Outflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.66' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.16 cfs @ 12.09 hrs HW=157.63' TW=156.91' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 4.16 cfs @ 3.75 fps)

Summary for Pond DC4: DMH-C4

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf
Outflow = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.97' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.46 cfs @ 12.09 hrs HW=156.91' TW=156.34' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 7.46 cfs @ 3.64 fps)

Summary for Pond DC5: DMH-C5

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf
Outflow = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.37' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=10.92 cfs @ 12.09 hrs HW=156.34' TW=155.52' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.92 cfs @ 4.63 fps)

Summary for Pond DC6: DMH-C6

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf
Outflow = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.63' @ 12.13 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=11.95 cfs @ 12.09 hrs HW=155.52' TW=155.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 11.95 cfs @ 3.60 fps)

Summary for Pond DC7: DMH-C7

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf
Outflow = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf, Atten= 0%, Lag= 0.0 min
Primary = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.15' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=16.65 cfs @ 12.09 hrs HW=155.06' TW=154.34' (Dynamic Tailwater)
1=Culvert (Outlet Controls 16.65 cfs @ 4.46 fps)

Summary for Pond DC8: DMH-C8

Inflow Area = 188,100 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 23.34 cfs @ 12.09 hrs, Volume= 84,786 cf
Outflow = 23.34 cfs @ 12.09 hrs, Volume= 84,786 cf, Atten= 0%, Lag= 0.0 min
Primary = 23.34 cfs @ 12.09 hrs, Volume= 84,786 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.37' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.91'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 151.91' / 151.23' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=20.45 cfs @ 12.09 hrs HW=154.34' TW=153.30' (Dynamic Tailwater)
1=Culvert (Outlet Controls 20.45 cfs @ 5.35 fps)

Summary for Pond DC9: DMH-C9

Inflow Area = 219,600 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 27.24 cfs @ 12.09 hrs, Volume= 98,985 cf
Outflow = 27.24 cfs @ 12.09 hrs, Volume= 98,985 cf, Atten= 0%, Lag= 0.0 min
Primary = 27.24 cfs @ 12.09 hrs, Volume= 98,985 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 153.38' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	150.73'	**36.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 150.73' / 150.05' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=23.81 cfs @ 12.09 hrs HW=153.30' TW=152.45' (Dynamic Tailwater)
1=Culvert (Outlet Controls 23.81 cfs @ 4.97 fps)

Summary for Pond DD1: DMH-D1

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 3.11" for 25-YR event
Inflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf
Outflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 151.76' @ 12.34 hrs
Flood Elev= 162.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	149.04'	**30.0" Round Culvert** L= 273.0' Ke= 0.500 Inlet / Outlet Invert= 149.04' / 147.67' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=22.63 cfs @ 12.28 hrs HW=151.74' TW=150.36' (Dynamic Tailwater)
1=Culvert (Outlet Controls 22.63 cfs @ 5.31 fps)

Summary for Pond DD2: DMH-D2

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 3.11" for 25-YR event
Inflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf
Outflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 150.37' @ 12.32 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	147.57'	**30.0" Round Culvert** L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 147.57' / 146.66' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=22.74 cfs @ 12.28 hrs HW=150.36' TW=149.27' (Dynamic Tailwater)
1=Culvert (Outlet Controls 22.74 cfs @ 5.18 fps)

Summary for Pond DD3: DMH-D3

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 3.11" for 25-YR event
Inflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf
Outflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 149.27' @ 12.31 hrs
Flood Elev= 164.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	146.56'	**30.0" Round Culvert** L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 146.56' / 145.91' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=22.84 cfs @ 12.28 hrs HW=149.27' TW=148.25' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 22.84 cfs @ 5.34 fps)

Summary for Pond DD4: DMH-DD4

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 3.11" for 25-YR event
Inflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf
Outflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf, Atten= 0%, Lag= 0.0 min
Primary = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 148.25' @ 12.28 hrs
Flood Elev= 152.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	145.81'	**30.0" Round Culvert** L= 133.0' Ke= 0.500 Inlet / Outlet Invert= 145.81' / 145.15' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=22.87 cfs @ 12.28 hrs HW=148.25' TW=144.84' (Dynamic Tailwater)
↑**1=Culvert** (Barrel Controls 22.87 cfs @ 5.94 fps)

Summary for Pond DE1: DMH-E1

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 158.31' @ 12.10 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	157.75'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 157.75' / 156.93' S= 0.0060 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=158.29' TW=157.63' (Dynamic Tailwater)
↑**1=Culvert** (Outlet Controls 0.80 cfs @ 2.68 fps)

Summary for Pond DE2: DMH-E2

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf
Outflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 157.66' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	156.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 156.43' / 155.75' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.16 cfs @ 12.09 hrs HW=157.63' TW=156.91' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.16 cfs @ 3.75 fps)

Summary for Pond DE3: DMH-E3

Inflow Area = 70,200 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf
Outflow = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf, Atten= 0%, Lag= 0.0 min
Primary = 8.71 cfs @ 12.09 hrs, Volume= 31,643 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.97' @ 12.11 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.25'	**24.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.25' / 154.57' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.51 cfs @ 12.09 hrs HW=156.91' TW=156.34' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.51 cfs @ 3.66 fps)

Summary for Pond DE4: DMH-E4

Inflow Area = 101,700 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf
Outflow = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf, Atten= 0%, Lag= 0.0 min
Primary = 12.62 cfs @ 12.09 hrs, Volume= 45,841 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.36' @ 12.10 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	154.47'	**24.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 154.47' / 153.88' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=11.08 cfs @ 12.09 hrs HW=156.34' TW=155.48' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 11.08 cfs @ 4.72 fps)

Summary for Pond DE5: DMH-E5

Inflow Area = 130,275 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf
Outflow = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.16 cfs @ 12.09 hrs, Volume= 58,721 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 155.55' @ 12.11 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	153.38'	**30.0" Round Culvert** L= 117.0' Ke= 0.500 Inlet / Outlet Invert= 153.38' / 152.79' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=14.00 cfs @ 12.09 hrs HW=155.48' TW=154.82' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 14.00 cfs @ 4.31 fps)

Summary for Pond DE6: DMH-E9

Inflow Area = 156,600 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf
Outflow = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf, Atten= 0%, Lag= 0.0 min
Primary = 19.43 cfs @ 12.09 hrs, Volume= 70,587 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.85' @ 12.09 hrs
Flood Elev= 160.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	152.69'	**30.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 152.69' / 152.01' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=17.91 cfs @ 12.09 hrs HW=154.82' TW=153.73' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 17.91 cfs @ 5.41 fps)

Summary for Pond DE7: DMH-E7

Inflow Area = 252,000 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf
Outflow = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf, Atten= 0%, Lag= 0.0 min
Primary = 31.26 cfs @ 12.09 hrs, Volume= 113,589 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 154.13' @ 12.40 hrs
Flood Elev= 161.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	151.01'	**42.0" Round Culvert** L= 78.0' Ke= 0.500 Inlet / Outlet Invert= 151.01' / 150.62' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 9.62 sf

Primary OutFlow Max=22.91 cfs @ 12.09 hrs HW=153.73' TW=153.29' (Dynamic Tailwater)
1=Culvert (Outlet Controls 22.91 cfs @ 3.93 fps)

Summary for Pond DE8: DMH-E8

Inflow Area = 38,700 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf
Outflow = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.80 cfs @ 12.09 hrs, Volume= 17,444 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 156.51' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	155.43'	**18.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 155.43' / 153.01' S= 0.0178 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.67 cfs @ 12.09 hrs HW=156.49' TW=153.73' (Dynamic Tailwater)
1=Culvert (Inlet Controls 4.67 cfs @ 3.50 fps)

Summary for Pond DE9: DMH-E9

Inflow Area = 7,200 sf,100.00% Impervious, Inflow Depth > 5.41" for 25-YR event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 3,245 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 159.13' @ 12.09 hrs
Flood Elev= 164.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	158.65'	**12.0" Round Culvert** L= 136.0' Ke= 0.500 Inlet / Outlet Invert= 158.65' / 155.93' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.87 cfs @ 12.09 hrs HW=159.13' TW=156.49' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 0.87 cfs @ 2.35 fps)

Summary for Pond PC: POND C

Inflow Area = 683,407 sf, 81.92% Impervious, Inflow Depth > 4.36" for 25-YR event
Inflow = 70.82 cfs @ 12.09 hrs, Volume= 248,421 cf
Outflow = 4.39 cfs @ 13.75 hrs, Volume= 225,151 cf, Atten= 94%, Lag= 99.9 min
Discarded = 4.39 cfs @ 13.75 hrs, Volume= 225,151 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 147.59' @ 13.75 hrs Surf.Area= 37,755 sf Storage= 113,010 cf
Flood Elev= 150.00' Surf.Area= 44,250 sf Storage= 211,891 cf

Plug-Flow detention time= 229.9 min calculated for 224,682 cf (90% of inflow)
Center-of-Mass det. time= 182.9 min (945.7 - 762.8)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	211,891 cf	**Custom Stage Data (Conic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
144.00	23,000	0	0	23,000
146.00	33,700	56,360	56,360	33,766
148.00	38,850	72,489	128,849	39,090
150.00	44,250	83,041	211,891	44,679

Device	Routing	Invert	Outlet Devices
#1	Discarded	144.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 36.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.20' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=4.39 cfs @ 13.75 hrs HW=147.59' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 4.39 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' TW=0.00' (Dynamic Tailwater)
↑**2=Culvert** (Controls 0.00 cfs)
↑**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PD: POND D

Inflow Area = 1,054,789 sf, 57.80% Impervious, Inflow Depth > 3.03" for 25-YR event
Inflow = 35.37 cfs @ 12.11 hrs, Volume= 266,270 cf
Outflow = 3.77 cfs @ 14.88 hrs, Volume= 192,468 cf, Atten= 89%, Lag= 166.6 min
Discarded = 3.77 cfs @ 14.88 hrs, Volume= 192,468 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 147.49' @ 14.88 hrs Surf.Area= 32,222 sf Storage= 137,534 cf
Flood Elev= 150.00' Surf.Area= 37,700 sf Storage= 225,094 cf

Plug-Flow detention time= 263.5 min calculated for 192,468 cf (72% of inflow)
Center-of-Mass det. time= 173.3 min (967.5 - 794.2)

Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	225,094 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
142.00	18,500	0	0	18,500
144.00	22,150	40,595	40,595	22,287
146.00	29,150	51,140	91,735	29,378
148.00	33,300	62,404	154,139	33,713
150.00	37,700	70,955	225,094	38,311

Device	Routing	Invert	Outlet Devices
#1	Discarded	142.00'	**5.000 in/hr Exfiltration over Wetted area** Phase-In= 0.01'
#2	Primary	146.00'	**24.0" Round Culvert** L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 146.00' / 144.17' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Device 2	149.00'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=3.77 cfs @ 14.88 hrs HW=147.49' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 3.77 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' TW=0.00' (Dynamic Tailwater)
↑—**2=Culvert** (Controls 0.00 cfs)
↑—**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond PE: POND E

Inflow Area = 848,324 sf, 58.89% Impervious, Inflow Depth > 3.15" for 25-YR event
Inflow = 62.94 cfs @ 12.09 hrs, Volume= 222,718 cf
Outflow = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf, Atten= 64%, Lag= 11.5 min
Primary = 22.88 cfs @ 12.28 hrs, Volume= 219,647 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Starting Elev= 150.00' Surf.Area= 9,000 sf Storage= 15,000 cf
Peak Elev= 154.03' @ 12.35 hrs Surf.Area= 15,961 sf Storage= 64,856 cf (49,856 cf above start)
Flood Elev= 160.00' Surf.Area= 30,200 sf Storage= 200,400 cf (185,400 cf above start)

Plug-Flow detention time= 99.8 min calculated for 204,647 cf (92% of inflow)
Center-of-Mass det. time= 29.7 min (791.9 - 762.2)

Volume	Invert	Avail.Storage	Storage Description
#1	148.00'	200,400 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
148.00	6,000	0	0
150.00	9,000	15,000	15,000
152.00	12,250	21,250	36,250
154.00	15,900	28,150	64,400
156.00	20,150	36,050	100,450
158.00	24,800	44,950	145,400
160.00	30,200	55,000	200,400

Device	Routing	Invert	Outlet Devices
#1	Primary	149.90'	**30.0" Round Culvert** L= 153.0' Ke= 0.500 Inlet / Outlet Invert= 149.90' / 149.14' S= 0.0050 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf
#2	Device 1	150.00'	**24.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	157.50'	**36.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=22.69 cfs @ 12.28 hrs HW=153.99' TW=151.74' (Dynamic Tailwater)
↑**1=Culvert** (Passes 22.69 cfs of 35.45 cfs potential flow)
↑**2=Orifice/Grate** (Orifice Controls 22.69 cfs @ 7.22 fps)
3=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond PH: POND H

Inflow Area = 226,679 sf, 0.37% Impervious, Inflow Depth > 0.08" for 25-YR event
Inflow = 0.10 cfs @ 12.33 hrs, Volume= 1,524 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 150.00' Surf.Area= 5,950 sf Storage= 13,653 cf
Peak Elev= 150.25' @ 24.00 hrs Surf.Area= 6,251 sf Storage= 15,175 cf (1,522 cf above start)
Flood Elev= 154.00' Surf.Area= 11,300 sf Storage= 47,909 cf (34,256 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	146.00'	47,909 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
146.00	1,500	0	0	1,500
148.00	3,225	4,616	4,616	3,258
150.00	5,950	9,037	13,653	6,024
152.00	8,574	14,444	28,098	8,716
154.00	11,300	19,811	47,909	11,532

Device	Routing	Invert	Outlet Devices
#1	Primary	150.00'	**15.0" Round Culvert** L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 150.00' / 149.78' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf
#2	Device 1	150.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#3	Primary	153.50'	**48.0" W x 36.0" H Vert. Orifice/Grate** C= 0.600

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' TW=152.00' (Dynamic Tailwater)
- **1=Culvert** (Controls 0.00 cfs)
  - **2=Orifice/Grate** (Controls 0.00 cfs)
- **3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Link L1: NORTHEAST PROPERTY CORNER

Inflow Area = 57,112 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.01 cfs @ 17.13 hrs, Volume= 188 cf
Primary = 0.01 cfs @ 17.13 hrs, Volume= 188 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L2: RIVER

Inflow Area = 3,252,889 sf, 38.55% Impervious, Inflow Depth > 0.15" for 25-YR event
Inflow = 4.16 cfs @ 12.28 hrs, Volume= 41,566 cf
Primary = 4.16 cfs @ 12.28 hrs, Volume= 41,566 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L3: EX CULVERTS

Inflow Area = 2,621,305 sf, 46.88% Impervious, Inflow Depth > 0.05" for 25-YR event
Inflow = 0.45 cfs @ 13.88 hrs, Volume= 11,325 cf
Primary = 0.45 cfs @ 13.88 hrs, Volume= 11,325 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L4: WEST PROPERTY LINE

Inflow Area = 212,906 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.02 cfs @ 17.21 hrs, Volume= 695 cf
Primary = 0.02 cfs @ 17.21 hrs, Volume= 695 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L5: NORTHWEST PROPERTY CORNER

Inflow Area = 71,723 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.01 cfs @ 17.13 hrs, Volume= 236 cf
Primary = 0.01 cfs @ 17.13 hrs, Volume= 236 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link L6: FOX HOLLOW

Inflow Area = 24,585 sf, 0.00% Impervious, Inflow Depth > 0.04" for 25-YR event
Inflow = 0.00 cfs @ 17.13 hrs, Volume= 81 cf
Primary = 0.00 cfs @ 17.13 hrs, Volume= 81 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment A1: SUBCAT A1 Runoff Area=4,895 sf 63.11% Impervious Runoff Depth>4.03"
Tc=6.0 min CN=76 Runoff=0.52 cfs 1,645 cf

Subcatchment A2: SUBCAT A2 Runoff Area=5,412 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.80 cfs 2,935 cf

Subcatchment A3: SUBCAT A3 Runoff Area=5,889 sf 94.62% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=0.86 cfs 3,020 cf

Subcatchment A4: SUBCAT A4 Runoff Area=6,616 sf 89.62% Impervious Runoff Depth>5.80"
Tc=6.0 min CN=92 Runoff=0.94 cfs 3,200 cf

Subcatchment B: SUBCAT B Runoff Area=24,585 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.01 cfs 349 cf

Subcatchment C1: SUBCAT C1 Runoff Area=6,254 sf 34.70% Impervious Runoff Depth>2.33"
Tc=6.0 min CN=59 Runoff=0.37 cfs 1,215 cf

Subcatchment C10: SUBCAT C10 Runoff Area=26,752 sf 95.25% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=3.91 cfs 13,717 cf

Subcatchment C11: SUBCAT C11 Runoff Area=6,044 sf 71.33% Impervious Runoff Depth>4.57"
Tc=6.0 min CN=81 Runoff=0.72 cfs 2,301 cf

Subcatchment C12: SUBCAT C12 Runoff Area=8,341 sf 76.62% Impervious Runoff Depth>4.90"
Tc=6.0 min CN=84 Runoff=1.05 cfs 3,405 cf

Subcatchment C13: SUBCAT C13 Runoff Area=3,872 sf 77.27% Impervious Runoff Depth>5.01"
Tc=6.0 min CN=85 Runoff=0.50 cfs 1,617 cf

Subcatchment C14: SUBCAT C14 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.44 cfs 1,622 cf

Subcatchment C15: SUBCAT C15 Runoff Area=3,872 sf 81.40% Impervious Runoff Depth>5.23"
Tc=6.0 min CN=87 Runoff=0.51 cfs 1,689 cf

Subcatchment C16: SUBCAT C16 Runoff Area=2,992 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.44 cfs 1,622 cf

Subcatchment C17: SUBCAT C17 Runoff Area=25,506 sf 95.04% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=3.72 cfs 13,079 cf

Subcatchment C18: SUBCAT C18 Runoff Area=27,087 sf 99.38% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.02 cfs 14,688 cf

Subcatchment C19: SUBCAT C19 Runoff Area=41,584 sf 80.98% Impervious Runoff Depth>5.23"
Tc=6.0 min CN=87 Runoff=5.53 cfs 18,138 cf

Subcatchment C2: SUBCAT C2 Runoff Area=4,249 sf 80.40% Impervious Runoff Depth>5.12"
Tc=6.0 min CN=86 Runoff=0.56 cfs 1,814 cf

Subcatchment C20: SUBCAT C20 Runoff Area=3,692 sf 81.61% Impervious Runoff Depth>5.23"
Tc=6.0 min CN=87 Runoff=0.49 cfs 1,610 cf

Subcatchment C21: SUBCAT C21 Runoff Area=3,610 sf 79.03% Impervious Runoff Depth>5.12"
Tc=6.0 min CN=86 Runoff=0.47 cfs 1,541 cf

Subcatchment C22: SUBCAT C22 Runoff Area=3,940 sf 77.16% Impervious Runoff Depth>5.01"
Tc=6.0 min CN=85 Runoff=0.51 cfs 1,645 cf

Subcatchment C23: SUBCAT C23 Runoff Area=3,424 sf 90.30% Impervious Runoff Depth>5.80"
Tc=6.0 min CN=92 Runoff=0.49 cfs 1,656 cf

Subcatchment C24: SUBCAT C24 Runoff Area=11,181 sf 56.94% Impervious Runoff Depth>3.72"
Tc=6.0 min CN=73 Runoff=1.10 cfs 3,464 cf

Subcatchment C25: SUBCAT C25 Runoff Area=5,747 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.85 cfs 3,116 cf

Subcatchment C26: SUBCAT C26 Runoff Area=2,533 sf 92.22% Impervious Runoff Depth>5.92"
Tc=6.0 min CN=93 Runoff=0.36 cfs 1,250 cf

Subcatchment C27: SUBCAT C27 Runoff Area=8,243 sf 88.85% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=1.16 cfs 3,908 cf

Subcatchment C28: SUBCAT C28 Runoff Area=9,089 sf 85.50% Impervious Runoff Depth>5.46"
Tc=6.0 min CN=89 Runoff=1.24 cfs 4,136 cf

Subcatchment C29: SUBCAT C29 Runoff Area=4,785 sf 67.29% Impervious Runoff Depth>4.35"
Tc=6.0 min CN=79 Runoff=0.55 cfs 1,736 cf

Subcatchment C3: SUBCAT C3 Runoff Area=1,309 sf 87.47% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=0.18 cfs 621 cf

Subcatchment C30: SUBCAT C30 Runoff Area=3,220 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.48 cfs 1,746 cf

Subcatchment C31: SUBCAT C31 Runoff Area=9,362 sf 86.57% Impervious Runoff Depth>5.57"
Tc=6.0 min CN=90 Runoff=1.30 cfs 4,349 cf

Subcatchment C32: SUBCAT C32 Runoff Area=4,710 sf 67.69% Impervious Runoff Depth>4.35"
Tc=6.0 min CN=79 Runoff=0.54 cfs 1,708 cf

Subcatchment C33: SUBCAT C33 Runoff Area=6,131 sf 52.05% Impervious Runoff Depth>2.91"
Tc=6.0 min CN=65 Runoff=0.47 cfs 1,486 cf

Subcatchment C34: SUBCAT C34 Runoff Area=8,792 sf 87.89% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=1.23 cfs 4,168 cf

Subcatchment C35: SUBCAT C35 Runoff Area=3,541 sf 65.66% Impervious Runoff Depth>4.25"
Tc=6.0 min CN=78 Runoff=0.39 cfs 1,253 cf

Subcatchment C36: SUBCAT C36 Runoff Area=4,686 sf 33.91% Impervious Runoff Depth>1.79"
Tc=6.0 min CN=53 Runoff=0.20 cfs 698 cf

Subcatchment C37: SUBCAT C37 Runoff Area=10,601 sf 53.01% Impervious Runoff Depth>3.41"
Tc=6.0 min CN=70 Runoff=0.95 cfs 3,011 cf

Subcatchment C38: SUBCAT C38 Runoff Area=6,400 sf 79.30% Impervious Runoff Depth>5.12"
Tc=6.0 min CN=86 Runoff=0.84 cfs 2,732 cf

Subcatchment C4: SUBCAT C4 Runoff Area=5,937 sf 33.28% Impervious Runoff Depth>2.33"
Tc=6.0 min CN=59 Runoff=0.35 cfs 1,153 cf

Subcatchment C5: SUBCAT C5 Runoff Area=5,125 sf 32.45% Impervious Runoff Depth>2.24"
Tc=6.0 min CN=58 Runoff=0.29 cfs 956 cf

Subcatchment C6: SUBCAT C6 Runoff Area=2,104 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.31 cfs 1,141 cf

Subcatchment C7: SUBCAT C7 Runoff Area=2,469 sf 80.19% Impervious Runoff Depth>5.12"
Tc=6.0 min CN=86 Runoff=0.32 cfs 1,054 cf

Subcatchment C8: SUBCAT C8 Runoff Area=31,789 sf 87.55% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=4.46 cfs 15,071 cf

Subcatchment C9: SUBCAT C9 Runoff Area=26,752 sf 99.34% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=3.97 cfs 14,507 cf

Subcatchment D1: SUBCAT D1 Runoff Area=6,306 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=0.94 cfs 3,420 cf

Subcatchment D10: SUBCAT D10 Runoff Area=8,279 sf 85.05% Impervious Runoff Depth>5.46"
Tc=6.0 min CN=89 Runoff=1.13 cfs 3,767 cf

Subcatchment D11: SUBCAT D11 Runoff Area=22,108 sf 71.77% Impervious Runoff Depth>4.57"
Tc=6.0 min CN=81 Runoff=2.63 cfs 8,418 cf

Subcatchment D12: SUBCAT D12 Runoff Area=8,350 sf 88.55% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=1.17 cfs 3,959 cf

Subcatchment D2: SUBCAT D2 Runoff Area=1,690 sf 84.14% Impervious Runoff Depth>5.46"
Tc=6.0 min CN=89 Runoff=0.23 cfs 769 cf

Subcatchment D3: SUBCAT D3 Runoff Area=34,598 sf 51.01% Impervious Runoff Depth>3.31"
Tc=6.0 min CN=69 Runoff=3.02 cfs 9,534 cf

Subcatchment D4: SUBCAT D4 Runoff Area=3,657 sf 72.49% Impervious Runoff Depth>4.68"
Tc=6.0 min CN=82 Runoff=0.44 cfs 1,426 cf

Subcatchment D5: SUBCAT D5 Runoff Area=6,341 sf 62.81% Impervious Runoff Depth>4.03"
Tc=6.0 min CN=76 Runoff=0.67 cfs 2,131 cf

Subcatchment D6: SUBCAT D6 Runoff Area=6,633 sf 75.95% Impervious Runoff Depth>4.90"
Tc=6.0 min CN=84 Runoff=0.84 cfs 2,708 cf

Subcatchment D7: SUBCAT D7 Runoff Area=17,040 sf 81.32% Impervious Runoff Depth>5.23"
Tc=6.0 min CN=87 Runoff=2.26 cfs 7,432 cf

Subcatchment D8: SUBCAT D8 Runoff Area=7,740 sf 84.12% Impervious Runoff Depth>5.46"
Tc=6.0 min CN=89 Runoff=1.06 cfs 3,522 cf

Subcatchment D9: SUBCAT D9 Runoff Area=19,265 sf 81.28% Impervious Runoff Depth>5.23"
Tc=6.0 min CN=87 Runoff=2.56 cfs 8,403 cf

Subcatchment E1: SUBCAT E1 Runoff Area=5,639 sf 95.66% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=0.82 cfs 2,891 cf

Subcatchment E10: SUBCAT E10 Runoff Area=11,128 sf 61.34% Impervious Runoff Depth>3.93"
Tc=6.0 min CN=75 Runoff=1.15 cfs 3,641 cf

Subcatchment E11: SUBCAT E11 Runoff Area=23,375 sf 93.96% Impervious Runoff Depth>6.04"
Tc=6.0 min CN=94 Runoff=3.39 cfs 11,758 cf

Subcatchment E12: SUBCAT E12 Runoff Area=18,833 sf 95.13% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=2.75 cfs 9,657 cf

Subcatchment E13: SUBCAT E13 Runoff Area=35,467 sf 94.58% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=5.18 cfs 18,186 cf

Subcatchment E14: SUBCAT E14 Runoff Area=27,808 sf 98.14% Impervious Runoff Depth>6.39"
Tc=6.0 min CN=97 Runoff=4.11 cfs 14,805 cf

Subcatchment E15: SUBCAT E15 Runoff Area=32,392 sf 98.14% Impervious Runoff Depth>6.39"
Tc=6.0 min CN=97 Runoff=4.79 cfs 17,245 cf

Subcatchment E16: SUBCAT E16 Runoff Area=30,721 sf 76.36% Impervious Runoff Depth>4.90"
Tc=6.0 min CN=84 Runoff=3.88 cfs 12,542 cf

Subcatchment E17: SUBCAT E17 Runoff Area=120,518 sf 0.00% Impervious Runoff Depth>0.17"
Flow Length=190' Tc=7.2 min CN=30 Runoff=0.06 cfs 1,707 cf

Subcatchment E18: SUBCAT E18 Runoff Area=11,752 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.01 cfs 167 cf

Subcatchment E19: SUBCAT E19 Runoff Area=75,753 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.04 cfs 1,074 cf

Subcatchment E2: SUBCAT E2 Runoff Area=6,746 sf 96.37% Impervious Runoff Depth>6.27"
Tc=6.0 min CN=96 Runoff=0.99 cfs 3,525 cf

Subcatchment E3: SUBCAT E3 Runoff Area=10,197 sf 93.34% Impervious Runoff Depth>6.04"
Tc=6.0 min CN=94 Runoff=1.48 cfs 5,129 cf

Subcatchment E4: SUBCAT E4 Runoff Area=11,078 sf 88.18% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=1.56 cfs 5,252 cf

Subcatchment E5: SUBCAT E5 Runoff Area=9,740 sf 67.06% Impervious Runoff Depth>4.35"
Tc=6.0 min CN=79 Runoff=1.11 cfs 3,533 cf

Subcatchment E6: SUBCAT E6 Runoff Area=13,215 sf 67.23% Impervious Runoff Depth>4.35"
Tc=6.0 min CN=79 Runoff=1.51 cfs 4,793 cf

Subcatchment E7: SUBCAT E7 Runoff Area=9,100 sf 90.92% Impervious Runoff Depth>5.92"
Tc=6.0 min CN=93 Runoff=1.31 cfs 4,489 cf

Subcatchment E8: SUBCAT E8 Runoff Area=12,697 sf 90.53% Impervious Runoff Depth>5.80"
Tc=6.0 min CN=92 Runoff=1.80 cfs 6,141 cf

Subcatchment E9: SUBCAT E9 Runoff Area=3,988 sf 94.93% Impervious Runoff Depth>6.15"
Tc=6.0 min CN=95 Runoff=0.58 cfs 2,045 cf

Subcatchment G1: SUBCAT G1 Runoff Area=203,535 sf 0.00% Impervious Runoff Depth>0.17"
Flow Length=1,090' Tc=11.8 min CN=30 Runoff=0.11 cfs 2,872 cf

Subcatchment K: SUBCAT K Runoff Area=318,471 sf 7.84% Impervious Runoff Depth>1.12"
Flow Length=1,223' Tc=10.6 min CN=45 Runoff=5.81 cfs 29,670 cf

Subcatchment L: SUBCAT L Runoff Area=313,113 sf 0.00% Impervious Runoff Depth>0.89"
Tc=6.0 min CN=42 Runoff=4.34 cfs 23,277 cf

Subcatchment R1: SUBCAT R1 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=1.07 cfs 3,904 cf

Subcatchment R10: SUBCAT R10 Runoff Area=32,400 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.81 cfs 17,569 cf

Subcatchment R11: SUBCAT R11 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R12: SUBCAT R12 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R13: SUBCAT R13 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,275 cf

Subcatchment R14: SUBCAT R14 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.24 cfs 15,495 cf

Subcatchment R15: SUBCAT R15 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R16: SUBCAT R16 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R17: SUBCAT R17 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R18: SUBCAT R18 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=1.07 cfs 3,904 cf

Subcatchment R2: SUBCAT R2 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R3: SUBCAT R3 Runoff Area=56,700 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=8.42 cfs 30,747 cf

Subcatchment R4: SUBCAT R4 Runoff Area=26,325 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=3.91 cfs 14,275 cf

Subcatchment R5: SUBCAT R5 Runoff Area=28,575 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.24 cfs 15,495 cf

Subcatchment R6: SUBCAT R6 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R7: SUBCAT R7 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R8: SUBCAT R8 Runoff Area=31,500 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=4.68 cfs 17,081 cf

Subcatchment R9: SUBCAT R9 Runoff Area=7,200 sf 100.00% Impervious Runoff Depth>6.51"
Tc=6.0 min CN=98 Runoff=1.07 cfs 3,904 cf

Subcatchment S1: SUBCAT S1 Runoff Area=57,112 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.03 cfs 810 cf

Subcatchment S10: SUBCAT S10 Runoff Area=96,652 sf 6.11% Impervious Runoff Depth>0.37"
Flow Length=455' Tc=12.0 min CN=34 Runoff=0.23 cfs 2,955 cf

Subcatchment S11: SUBCAT S11 Runoff Area=113,276 sf 14.81% Impervious Runoff Depth>0.75"
Flow Length=327' Tc=6.0 min CN=40 Runoff=1.10 cfs 7,066 cf

Subcatchment S12: SUBCAT S12 Runoff Area=23,144 sf 3.59% Impervious Runoff Depth>0.82"
Tc=6.0 min CN=41 Runoff=0.27 cfs 1,580 cf

Subcatchment S13: SUBCAT S13 Runoff Area=13,348 sf 89.17% Impervious Runoff Depth>5.80"
Tc=6.0 min CN=92 Runoff=1.90 cfs 6,456 cf

Subcatchment S14: SUBCAT S14 Runoff Area=11,820 sf 88.58% Impervious Runoff Depth>5.69"
Tc=6.0 min CN=91 Runoff=1.66 cfs 5,604 cf

Subcatchment S2: SUBCAT S2 Runoff Area=71,723 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.04 cfs 1,017 cf

Subcatchment S3: SUBCAT S3 Runoff Area=100,949 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.05 cfs 1,431 cf

Subcatchment S4: SUBCAT S4 Runoff Area=212,906 sf 0.00% Impervious Runoff Depth>0.17"
Flow Length=530' Tc=11.7 min CN=30 Runoff=0.11 cfs 3,005 cf

Subcatchment S5: SUBCAT S5 Runoff Area=52,646 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.03 cfs 746 cf

Subcatchment S6: SUBCAT S6 Runoff Area=71,750 sf 0.00% Impervious Runoff Depth>0.17"
Tc=6.0 min CN=30 Runoff=0.04 cfs 1,017 cf

Subcatchment S8: SUBCAT S8 Runoff Area=446,502 sf 8.05% Impervious Runoff Depth>0.42"
Flow Length=2,253' Tc=13.6 min CN=35 Runoff=1.38 cfs 15,765 cf

Reach ER4: EX REACH 4 Avg. Flow Depth=0.03' Max Vel=0.72 fps Inflow=1.04 cfs 9,897 cf
n=0.030 L=1,291.0' S=0.0187 '/' Capacity=176.06 cfs Outflow=0.62 cfs 9,546 cf

Reach ER5: EX REACH 5 Avg. Flow Depth=0.05' Max Vel=1.07 fps Inflow=1.81 cfs 25,311 cf
n=0.030 L=1,085.0' S=0.0224 '/' Capacity=192.80 cfs Outflow=1.46 cfs 24,785 cf

Reach RG: REACH G Avg. Flow Depth=0.09' Max Vel=3.07 fps Inflow=0.11 cfs 2,872 cf
12.0" Round Pipe n=0.012 L=180.0' S=0.0278 '/' Capacity=6.43 cfs Outflow=0.11 cfs 2,869 cf

Reach W1: WETLAND REACH 1 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0 cf
n=0.030 L=420.0' S=0.0190 '/' Capacity=177.62 cfs Outflow=0.00 cfs 0 cf

Reach W2: WETLAND REACH 2 Avg. Flow Depth=0.05' Max Vel=0.63 fps Inflow=1.10 cfs 7,066 cf
n=0.030 L=480.0' S=0.0083 '/' Capacity=117.48 cfs Outflow=0.83 cfs 6,942 cf

Pond CA1: CB-A1 Peak Elev=156.38' Inflow=1.32 cfs 4,580 cf
12.0" Round Culvert n=0.012 L=83.0' S=0.0100 '/' Outflow=1.32 cfs 4,580 cf

Pond CA2: CB-A2 Peak Elev=156.74' Inflow=0.80 cfs 2,935 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0100 '/' Outflow=0.80 cfs 2,935 cf

Pond CA3: CB-A3 Peak Elev=155.20' Inflow=5.36 cfs 18,280 cf
18.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=5.36 cfs 18,280 cf

Pond CA4: CB-A4 Peak Elev=155.52' Inflow=0.94 cfs 3,200 cf
12.0" Round Culvert n=0.012 L=50.0' S=0.0100 '/' Outflow=0.94 cfs 3,200 cf

Pond CC1: CB-C1 Peak Elev=159.68' Inflow=0.37 cfs 1,215 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0048 '/' Outflow=0.37 cfs 1,215 cf

Pond CC10: CB-C10 Peak Elev=154.37' Inflow=24.50 cfs 84,109 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=24.50 cfs 84,109 cf

Pond CC11: CB-C11 Peak Elev=156.18' Inflow=0.72 cfs 2,301 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0200 '/' Outflow=0.72 cfs 2,301 cf

Pond CC12: CB-C12 Peak Elev=149.84' Inflow=14.26 cfs 48,149 cf
24.0" Round Culvert n=0.012 L=70.0' S=0.0050 '/' Outflow=14.26 cfs 48,149 cf

Pond CC13: CB-C13 Peak Elev=156.10' Inflow=0.50 cfs 1,617 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.50 cfs 1,617 cf

Pond CC14: CB-C14 Peak Elev=150.73' Inflow=12.48 cfs 42,442 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=12.48 cfs 42,442 cf

Pond CC15: CB-C15 Peak Elev=156.11' Inflow=0.51 cfs 1,689 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.51 cfs 1,689 cf

Pond CC16: CB-C16 Peak Elev=151.53' Inflow=11.54 cfs 39,203 cf
24.0" Round Culvert n=0.012 L=172.0' S=0.0050 '/' Outflow=11.54 cfs 39,203 cf

Pond CC17: CB-C17 Peak Elev=155.00' Inflow=20.59 cfs 70,391 cf
30.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=20.59 cfs 70,391 cf

Pond CC18: CB-C18 Peak Elev=155.58' Inflow=16.87 cfs 57,313 cf
30.0" Round Culvert n=0.012 L=168.0' S=0.0050 '/' Outflow=16.87 cfs 57,313 cf

Pond CC19: CB-C19 Peak Elev=156.64' Inflow=12.85 cfs 42,624 cf
24.0" Round Culvert n=0.012 L=181.0' S=0.0050 '/' Outflow=12.85 cfs 42,624 cf

Pond CC2: CB-C2 Peak Elev=159.59' Inflow=0.93 cfs 3,029 cf
12.0" Round Culvert n=0.012 L=56.0' S=0.0050 '/' Outflow=0.93 cfs 3,029 cf

Pond CC20: CB-C20 Peak Elev=152.34' Inflow=10.58 cfs 35,892 cf
24.0" Round Culvert n=0.012 L=169.0' S=0.0050 '/' Outflow=10.58 cfs 35,892 cf

Pond CC21: CB-C21 Peak Elev=156.09' Inflow=0.47 cfs 1,541 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.47 cfs 1,541 cf

Pond CC22: CB-C22 Peak Elev=156.11' Inflow=0.51 cfs 1,645 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.51 cfs 1,645 cf

Pond CC23: CB-C23 Peak Elev=153.19' Inflow=9.62 cfs 32,740 cf
24.0" Round Culvert n=0.012 L=173.0' S=0.0050 '/' Outflow=9.62 cfs 32,740 cf

Pond CC24: CB-C24 Peak Elev=155.71' Inflow=2.42 cfs 8,043 cf
12.0" Round Culvert n=0.012 L=42.0' S=0.0290 '/' Outflow=2.42 cfs 8,043 cf

Pond CC25: CB-C25 Peak Elev=154.12' Inflow=8.63 cfs 29,439 cf
24.0" Round Culvert n=0.012 L=190.0' S=0.0050 '/' Outflow=8.63 cfs 29,439 cf

Pond CC26: CB-C26 Peak Elev=158.78' Inflow=1.39 cfs 4,731 cf
12.0" Round Culvert n=0.012 L=41.0' S=0.0224 '/' Outflow=1.39 cfs 4,731 cf

Pond CC27: CB-C27 Peak Elev=158.93' Inflow=5.94 cfs 19,755 cf
18.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=5.94 cfs 19,755 cf

Pond CC28: CB-C28 Peak Elev=159.62' Inflow=4.78 cfs 15,847 cf
15.0" Round Culvert n=0.012 L=101.0' S=0.0050 '/' Outflow=4.78 cfs 15,847 cf

Pond CC29: CB-C29 Peak Elev=160.32' Inflow=1.02 cfs 3,482 cf
12.0" Round Culvert n=0.012 L=77.0' S=0.0200 '/' Outflow=1.02 cfs 3,482 cf

Pond CC3: CB-C3 Peak Elev=159.32' Inflow=1.11 cfs 3,649 cf
12.0" Round Culvert n=0.012 L=75.0' S=0.0049 '/' Outflow=1.11 cfs 3,649 cf

Pond CC30: CB-C30 Peak Elev=160.76' Inflow=0.48 cfs 1,746 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0200 '/' Outflow=0.48 cfs 1,746 cf

Pond CC31: CB-C31 Peak Elev=160.22' Inflow=3.54 cfs 11,711 cf
15.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=3.54 cfs 11,711 cf

Pond CC32: CB-C32 Peak Elev=161.82' Inflow=1.00 cfs 3,194 cf
12.0" Round Culvert n=0.012 L=53.0' S=0.0292 '/' Outflow=1.00 cfs 3,194 cf

Pond CC33: CB-C33 Peak Elev=162.49' Inflow=0.47 cfs 1,486 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0288 '/' Outflow=0.47 cfs 1,486 cf

Pond CC34: CB-C34 Peak Elev=160.67' Inflow=2.24 cfs 7,362 cf
12.0" Round Culvert n=0.012 L=88.0' S=0.0050 '/' Outflow=2.24 cfs 7,362 cf

Pond CC35: CB-C35 Peak Elev=159.65' Inflow=1.55 cfs 4,961 cf
12.0" Round Culvert n=0.012 L=90.0' S=0.0303 '/' Outflow=1.55 cfs 4,961 cf

Pond CC36: CB-C36 Peak Elev=160.37' Inflow=0.20 cfs 698 cf
12.0" Round Culvert n=0.012 L=40.0' S=0.0267 '/' Outflow=0.20 cfs 698 cf

Pond CC37: CB-C37 Peak Elev=159.87' Inflow=0.95 cfs 3,011 cf
12.0" Round Culvert n=0.012 L=34.0' S=0.0050 '/' Outflow=0.95 cfs 3,011 cf

Pond CC38: CB-C38 Peak Elev=161.77' Inflow=0.84 cfs 2,732 cf
12.0" Round Culvert n=0.012 L=120.0' S=0.0179 '/' Outflow=0.84 cfs 2,732 cf

Pond CC4: CB-C4 Peak Elev=157.82' Inflow=0.35 cfs 1,153 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0100 '/' Outflow=0.35 cfs 1,153 cf

Pond CC5: CB-C5 Peak Elev=159.72' Inflow=0.29 cfs 956 cf
12.0" Round Culvert n=0.012 L=30.0' S=0.0100 '/' Outflow=0.29 cfs 956 cf

Pond CC6: CB-C6 Peak Elev=157.01' Inflow=1.27 cfs 4,304 cf
12.0" Round Culvert n=0.012 L=73.0' S=0.0100 '/' Outflow=1.27 cfs 4,304 cf

Pond CC7: CB-C7 Peak Elev=157.57' Inflow=0.67 cfs 2,207 cf
12.0" Round Culvert n=0.012 L=62.0' S=0.0100 '/' Outflow=0.67 cfs 2,207 cf

Pond CC8: CB-C8 Peak Elev=152.00' Inflow=32.94 cfs 113,686 cf
36.0" Round Culvert n=0.012 L=85.0' S=0.0051 '/' Outflow=32.94 cfs 113,686 cf

Pond CC9: CB-C9 Peak Elev=153.41' Inflow=28.47 cfs 98,615 cf
30.0" Round Culvert n=0.012 L=170.0' S=0.0050 '/' Outflow=28.47 cfs 98,615 cf

Pond CD1: CB-D1 Peak Elev=159.61' Inflow=0.94 cfs 3,420 cf
12.0" Round Culvert n=0.012 L=144.0' S=0.0050 '/' Outflow=0.94 cfs 3,420 cf

Pond CD10: CB-D10 Peak Elev=159.30' Inflow=1.13 cfs 3,767 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0300 '/' Outflow=1.13 cfs 3,767 cf

Pond CD11: CB-D11 Peak Elev=155.94' Inflow=18.07 cfs 59,138 cf
24.0" Round Culvert n=0.012 L=264.0' S=0.0133 '/' Outflow=18.07 cfs 59,138 cf

Pond CD12: CB-D12 Peak Elev=159.00' Inflow=2.28 cfs 7,608 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0299 '/' Outflow=2.28 cfs 7,608 cf

Pond CD2: CB-D2 Peak Elev=158.79' Inflow=1.17 cfs 4,189 cf
12.0" Round Culvert n=0.012 L=91.0' S=0.0189 '/' Outflow=1.17 cfs 4,189 cf

Pond CD3: CB-D3 Peak Elev=158.15' Inflow=3.02 cfs 9,534 cf
12.0" Round Culvert n=0.012 L=48.0' S=0.0050 '/' Outflow=3.02 cfs 9,534 cf

Pond CD4: CB-D4 Peak Elev=157.43' Inflow=6.14 cfs 19,987 cf
18.0" Round Culvert n=0.012 L=165.0' S=0.0050 '/' Outflow=6.14 cfs 19,987 cf

Pond CD5: CB-D5 Peak Elev=158.41' Inflow=1.51 cfs 4,839 cf
12.0" Round Culvert n=0.012 L=26.0' S=0.0477 '/' Outflow=1.51 cfs 4,839 cf

Pond CD6: CB-D6 Peak Elev=158.71' Inflow=0.84 cfs 2,708 cf
12.0" Round Culvert n=0.012 L=33.0' S=0.0100 '/' Outflow=0.84 cfs 2,708 cf

Pond CD7: CB-D7 Peak Elev=156.75' Inflow=9.46 cfs 30,942 cf
24.0" Round Culvert n=0.012 L=93.0' S=0.0051 '/' Outflow=9.46 cfs 30,942 cf

Pond CD8: CB-D8 Peak Elev=159.28' Inflow=1.06 cfs 3,522 cf
12.0" Round Culvert n=0.012 L=121.0' S=0.0253 '/' Outflow=1.06 cfs 3,522 cf

Pond CD9: CB-D9 Peak Elev=156.49' Inflow=13.15 cfs 43,112 cf
24.0" Round Culvert n=0.012 L=100.0' S=0.0050 '/' Outflow=13.15 cfs 43,112 cf

Pond CE1: CB-E1 Peak Elev=161.31' Inflow=0.82 cfs 2,891 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0661 '/' Outflow=0.82 cfs 2,891 cf

Pond CE10: CB-E10 Peak Elev=154.89' Inflow=38.55 cfs 140,293 cf
42.0" Round Culvert n=0.012 L=43.0' S=0.0049 '/' Outflow=38.55 cfs 140,293 cf

Pond CE11: CB-E11 Peak Elev=154.94' Inflow=25.64 cfs 89,154 cf
30.0" Round Culvert n=0.012 L=104.0' S=0.0050 '/' Outflow=25.64 cfs 89,154 cf

Pond CE12: CB-E12 Peak Elev=155.02' Inflow=22.25 cfs 77,396 cf
30.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=22.25 cfs 77,396 cf

Pond CE13: CB-E13 Peak Elev=155.15' Inflow=19.50 cfs 67,739 cf
30.0" Round Culvert n=0.012 L=161.0' S=0.0050 '/' Outflow=19.50 cfs 67,739 cf

Pond CE14: CB-E14 Peak Elev=155.96' Inflow=14.32 cfs 49,553 cf
24.0" Round Culvert n=0.012 L=155.0' S=0.0050 '/' Outflow=14.32 cfs 49,553 cf

Pond CE15: CB-E15 Peak Elev=156.53' Inflow=10.21 cfs 34,748 cf
24.0" Round Culvert n=0.012 L=134.0' S=0.0050 '/' Outflow=10.21 cfs 34,748 cf

Pond CE16: CB-E16 Peak Elev=157.12' Inflow=5.43 cfs 17,503 cf
18.0" Round Culvert n=0.012 L=127.0' S=0.0050 '/' Outflow=5.43 cfs 17,503 cf

Pond CE17: CB-E17 Peak Elev=161.61' Inflow=0.06 cfs 1,707 cf
12.0" Round Culvert n=0.012 L=64.0' S=0.0100 '/' Outflow=0.06 cfs 1,707 cf

Pond CE18: CB-E18 Peak Elev=156.83' Inflow=0.01 cfs 167 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.01 cfs 167 cf

Pond CE19: CB-E19 Peak Elev=157.48' Inflow=0.04 cfs 1,074 cf
12.0" Round Culvert n=0.012 L=49.0' S=0.0051 '/' Outflow=0.04 cfs 1,074 cf

Pond CE2: CB-E2 Peak Elev=161.26' Inflow=0.99 cfs 5,232 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0612 '/' Outflow=0.99 cfs 5,232 cf

Pond CE3: CB-E3 Peak Elev=154.96' Inflow=11.99 cfs 43,479 cf
24.0" Round Culvert n=0.012 L=178.0' S=0.0050 '/' Outflow=11.99 cfs 43,479 cf

Pond CE4: CB-E4 Peak Elev=155.42' Inflow=9.69 cfs 35,458 cf
24.0" Round Culvert n=0.012 L=60.0' S=0.0050 '/' Outflow=9.69 cfs 35,458 cf

Pond CE5: CB-E5 Peak Elev=156.08' Inflow=7.15 cfs 24,974 cf
18.0" Round Culvert n=0.012 L=76.0' S=0.0050 '/' Outflow=7.15 cfs 24,974 cf

Pond CE6: CB-E6 Peak Elev=156.81' Inflow=6.04 cfs 21,441 cf
18.0" Round Culvert n=0.012 L=140.0' S=0.0050 '/' Outflow=6.04 cfs 21,441 cf

Pond CE7: CB-E7 Peak Elev=157.37' Inflow=4.53 cfs 16,648 cf
15.0" Round Culvert n=0.012 L=95.0' S=0.0049 '/' Outflow=4.53 cfs 16,648 cf

Pond CE8: CB-E8 Peak Elev=157.93' Inflow=3.22 cfs 11,992 cf
15.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=3.22 cfs 11,992 cf

Pond CE9: CB-E9 Peak Elev=159.68' Inflow=1.42 cfs 4,777 cf
12.0" Round Culvert n=0.012 L=94.0' S=0.0218 '/' Outflow=1.42 cfs 4,777 cf

Pond CS13: CB-S13 Peak Elev=156.05' Inflow=3.56 cfs 12,060 cf
15.0" Round Culvert n=0.012 L=145.0' S=0.0050 '/' Outflow=3.56 cfs 12,060 cf

Pond CS14: CB-S14 Peak Elev=156.88' Inflow=1.66 cfs 5,604 cf
12.0" Round Culvert n=0.012 L=101.0' S=0.0100 '/' Outflow=1.66 cfs 5,604 cf

Pond DC1: DMH-C1 Peak Elev=158.22' Inflow=7.32 cfs 24,486 cf
18.0" Round Culvert n=0.012 L=155.0' S=0.0096 '/' Outflow=7.32 cfs 24,486 cf

Pond DC10: DMH-C10 Peak Elev=152.84' Inflow=37.40 cfs 136,652 cf
36.0" Round Culvert n=0.012 L=247.0' S=0.0050 '/' Outflow=37.40 cfs 136,652 cf

Pond DC11: DMH-C11 Peak Elev=149.02' Inflow=48.46 cfs 166,139 cf
42.0" Round Culvert n=0.012 L=174.0' S=0.0050 '/' Outflow=48.46 cfs 166,139 cf

Pond DC2: DMH-C2 Peak Elev=158.39' Inflow=1.07 cfs 3,904 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=1.07 cfs 3,904 cf

Pond DC3: DMH-C3 Peak Elev=157.85' Inflow=5.74 cfs 20,986 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=5.74 cfs 20,986 cf

Pond DC4: DMH-C4 Peak Elev=157.24' Inflow=10.42 cfs 38,067 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=10.42 cfs 38,067 cf

Pond DC5: DMH-C5 Peak Elev=156.68' Inflow=15.09 cfs 55,149 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=15.09 cfs 55,149 cf

Pond DC6: DMH-C6 Peak Elev=156.01' Inflow=19.33 cfs 70,644 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=19.33 cfs 70,644 cf

Pond DC7: DMH-C7 Peak Elev=155.57' Inflow=23.24 cfs 84,919 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=23.24 cfs 84,919 cf

Pond DC8: DMH-C8 Peak Elev=154.76' Inflow=27.92 cfs 102,001 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=27.92 cfs 102,001 cf

Pond DC9: DMH-C9 Peak Elev=153.76' Inflow=32.59 cfs 119,082 cf
36.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=32.59 cfs 119,082 cf

Pond DD1: DMH-D1 Peak Elev=152.11' Inflow=25.14 cfs 270,908 cf
30.0" Round Culvert n=0.012 L=273.0' S=0.0050 '/' Outflow=25.14 cfs 270,908 cf

Pond DD2: DMH-D2 Peak Elev=150.71' Inflow=25.14 cfs 270,908 cf
30.0" Round Culvert n=0.012 L=183.0' S=0.0050 '/' Outflow=25.14 cfs 270,908 cf

Pond DD3: DMH-D3 Peak Elev=149.56' Inflow=25.14 cfs 270,908 cf
30.0" Round Culvert n=0.012 L=131.0' S=0.0050 '/' Outflow=25.14 cfs 270,908 cf

Pond DD4: DMH-DD4 Peak Elev=148.80' Inflow=25.14 cfs 270,908 cf
30.0" Round Culvert n=0.012 L=133.0' S=0.0050 '/' Outflow=25.14 cfs 270,908 cf

Pond DE1: DMH-E1 Peak Elev=158.39' Inflow=1.07 cfs 3,904 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0060 '/' Outflow=1.07 cfs 3,904 cf

Pond DE2: DMH-E2 Peak Elev=157.85' Inflow=5.74 cfs 20,986 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=5.74 cfs 20,986 cf

Pond DE3: DMH-E3 Peak Elev=157.24' Inflow=10.42 cfs 38,067 cf
24.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=10.42 cfs 38,067 cf

Pond DE4: DMH-E4 Peak Elev=156.66' Inflow=15.09 cfs 55,149 cf
24.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=15.09 cfs 55,149 cf

Pond DE5: DMH-E5 Peak Elev=155.86' Inflow=19.33 cfs 70,644 cf
30.0" Round Culvert n=0.012 L=117.0' S=0.0050 '/' Outflow=19.33 cfs 70,644 cf

Pond DE6: DMH-E9 Peak Elev=155.14' Inflow=23.24 cfs 84,919 cf
30.0" Round Culvert n=0.012 L=136.0' S=0.0050 '/' Outflow=23.24 cfs 84,919 cf

Pond DE7: DMH-E7 Peak Elev=154.93' Inflow=37.40 cfs 136,652 cf
42.0" Round Culvert n=0.012 L=78.0' S=0.0050 '/' Outflow=37.40 cfs 136,652 cf

Pond DE8: DMH-E8 Peak Elev=156.64' Inflow=5.74 cfs 20,986 cf
18.0" Round Culvert n=0.012 L=136.0' S=0.0178 '/' Outflow=5.74 cfs 20,986 cf

Pond DE9: DMH-E9 Peak Elev=159.19' Inflow=1.07 cfs 3,904 cf
12.0" Round Culvert n=0.012 L=136.0' S=0.0200 '/' Outflow=1.07 cfs 3,904 cf

Pond PC: POND C Peak Elev=148.47' Storage=147,237 cf Inflow=85.86 cfs 303,808 cf
Discarded=4.67 cfs 248,075 cf Primary=0.00 cfs 0 cf Outflow=4.67 cfs 248,075 cf

Pond PD: POND D Peak Elev=148.78' Storage=180,629 cf Inflow=41.20 cfs 330,792 cf
Discarded=4.10 cfs 213,535 cf Primary=0.00 cfs 0 cf Outflow=4.10 cfs 213,535 cf

Pond PE: POND E Peak Elev=154.83' Storage=78,305 cf Inflow=76.18 cfs 274,357 cf
Outflow=25.14 cfs 270,908 cf

Pond PH: POND H Peak Elev=150.70' Storage=18,097 cf Inflow=0.27 cfs 4,449 cf
Outflow=0.00 cfs 0 cf

Link L1: NORTHEAST PROPERTY CORNER Inflow=0.03 cfs 810 cf
Primary=0.03 cfs 810 cf

Link L2: RIVER Inflow=9.98 cfs 77,732 cf
Primary=9.98 cfs 77,732 cf

Link L3: EX CULVERTS Inflow=1.81 cfs 25,311 cf
Primary=1.81 cfs 25,311 cf

Link L4: WEST PROPERTY LINE Inflow=0.11 cfs 3,005 cf
Primary=0.11 cfs 3,005 cf

Link L5: NORTHWEST PROPERTY CORNER Inflow=0.04 cfs 1,017 cf
Primary=0.04 cfs 1,017 cf

Link L6: FOX HOLLOW

Inflow=0.01 cfs 349 cf
Primary=0.01 cfs 349 cf

Total Runoff Area = 3,619,215 sf Runoff Volume = 726,415 cf Average Runoff Depth = 2.41"
65.35% Pervious = 2,365,273 sf 34.65% Impervious = 1,253,942 sf

NHDES Alteration of Terrain

V. SITE SPECIFIC SOIL SURVEY REPORT

NHDES Alteration of Terrain

VI. MAINTENANCE AND INSPECTION

OPERATION AND MAINTENANCE PROCEDURES FOR STORMWATER MANAGEMENT SYSTEMS

Friars Drive

Map 209 Lot 001-000
Friars Drive – Sagamore Industrial Park
Hudson, New Hampshire 03051

PREPARED FOR:

Lowell Road Property Owner, LLC
133 Pearl Street #300
Boston, MA 02110

PREPARED BY:

The Dubay Group, Inc.
136 Harvey Road Bldg B101
Londonderry, NH 03053
P: 603-458-6462
www.TheDubayGroup.com

October 4, 2021

Engineers **Planners** **Surveyors**

Table of Contents:

Post Construction Operation and Maintenance Plan

MAINTENANCE SCHEDULE		
Frequency	***Actions***	***Follow-up***
Weekly (or after rain event)	Erosion Inspection, Clean Trash Racks	Take corrective action(s) if required
Quarterly	Complete Stormwater Inspection Report Reviewing all structures and BMP's	File Stormwater Inspection Report and take any corrective actions as needed
Semi Annually	Perform sediment removal from all structures and pipes as needed	Note any problem areas and inspect as necessary

Property Owner:

Lowell Road Property Owner, LLC
133 Pearl Street #300
Boston, MA 02110

Responsible Parties:

Installation

Lowell Road Property Owner, LLC
133 Pearl Street #300
Boston, MA 02110
Contact:

Operation & Maintenance

Lowell Road Property Owner, LLC
133 Pearl Street #300
Boston, MA 02110
Contact:

The Owner shall be responsible for the installation, operation, and maintenance of all stormwater management systems after construction. The Owner shall include separate line items for the operation and maintenance of the systems in their yearly budget. A licensed professional shall be contracted to perform the inspections on behalf of the Owner. Photographs shall be taken of each BMP during each inspection. The Owner will maintain records of all inspection reports and be the responsible party for implementation of any maintenance recommendations provided by the licensed professional. Inspection and maintenance records including photographs of all BMPs shall be provided to New Hampshire Department of Environmental Services upon their request. All required maintenance shall be performed by a qualified contractor experienced with the particular BMP requiring the maintenance. All Stormwater related items and the respective operation and maintenance requirements for each have been detailed below.

Proposed Site BMP's

a) Street Sweeping

Sweeping should be conducted a minimum of twice a year. Once in the early fall and then immediately following spring (March/April) snowmelt to remove sand and other debris. Sweeping shall be conducted by a high efficiency vacuum sweeper. Pavement surfaces may be swept at other times, basically for aesthetic reasons, such as in the fall after leaves have dropped to remove accumulated debris. Since contaminants typically accumulate within 12 inches of the curb line, street cleaning operations should concentrate in cleaning curb and gutter lines for maximum pollutant removal efficiency. Other areas can also be swept periodically, probably on a less regular basis.

b) Catch Basins/Outlet Control Structures

Catch basins and OCS's are proposed on site with a minimum sump of 1-foot for OCS's and of 3-foot for catch basins. Catch basins and OCS's require frequent maintenance and are recommended to be inspected at least twice a year. Inspections should be performed in the spring after the snow melt and in the fall following the leaf drop. Inspections should note the level of accumulated sediment and condition of the structure. Corrective action shall be taken as necessary. Some basins may receive higher sediment loading than others and may require more frequent cleanings. Basins should be cleaned when sediment approaches half the sump depth. Cleaning shall be performed by a licensed vacuum truck company.

During inspections, if floating hydrocarbons are observed, the material should be removed immediately by skimming, absorbent materials, or other method and disposed of in accordance with state and federal regulations.

c) Grass Lined Swale/Vegetated Swales

Inspect soil and repair eroded areas monthly. Re-mulch void areas as needed. Remove litter and debris monthly. Remove invasive species and treat diseased vegetation as needed. Perform periodic mowing of the swale. Remove and replace dead vegetation twice per year (spring and fall).

d) Vegetated Detention Basin/Sediment Forebay

Inspect soil and repair eroded areas monthly. Re-mulch void areas as needed. Remove litter and debris monthly. Treat diseased vegetation as needed. Remove and replace dead vegetation twice per year (spring and fall)

Basin Maintenance Schedule		
Activity	***Time of Year***	***Frequency***
Inspect & remove trash	Year round	Monthly
Mulch	Spring	Annually
Remove dead vegetation	Fall or Spring	Annually
Replace dead vegetation	Spring	Annually
Prune	Spring or Fall	Annually
Replace entire media & all vegetation	Late Spring/early Summer	As needed

Pretreatment BMPs shall be inspected and cleaned during the regular bi-annual inspections.

Clearing Inlets and Outlets: The inlet and outlet of the Detention Basin should be checked periodically to ensure that flow structures are not blocked by debris. All pipes connecting the structures to the system should be checked for debris that may obstruct flow. Inspections should be conducted monthly during wet weather conditions from March to November

e) Infiltration Pond

The areas shall be inspected at least twice per year to ensure that they are operating as intended.

Inspect soil and repair eroded areas monthly. Re-mulch void areas as needed. Remove litter and debris monthly. Treat diseased vegetation as needed. Remove and replace dead vegetation twice per year (spring and fall). Embankments shall be mowed periodically, and woody vegetation shall be removed. Accumulated sediments shall be removed if necessary.

Infiltration Maintenance Schedule		
Activity	***Time of Year***	***Frequency***
Inspect & remove trash	Year round	Monthly
Mulch	Spring	Annually
Remove dead vegetation	Fall or Spring	Annually
Replace dead vegetation	Spring	Annually
Prune	Spring or Fall	Annually
Replace entire media & all vegetation	Late Spring/early Summer	As needed

Pretreatment BMPs shall be inspected and cleaned during the regular bi-annual inspections.

Clearing Inlets and Outlets: The inlet and outlet of the Infiltration Basin should be checked periodically to ensure that flow structures are not blocked by debris. All pipes connecting the structures to the system should be checked for debris that may obstruct flow. Inspections should be conducted monthly during wet weather conditions from March to November.

Inspection of infiltration components at least twice annually and following any rainfall event exceeding 2.5 inches in a 24-hour period, with such maintenance or rehabilitation conducted as warranted by such inspection. If system does not drain within 72-hours following a rainfall event, then a qualified professional should assess the condition of the system and determine measures required to restore infiltration function.

f) Stone Lined Outlet Protection Areas

The areas shall be inspected at least once per year to ensure that they are operating as intended. The outlet structure shall be inspected for evidence of clogging or outflow release velocities that are greater than design flow.

g) Snow & Ice Management

The proposed development will result in greater than one acre of pavement, therefor will require a snow and ice management plan. The contractor responsible for the snow and ice management is required to be Green Snow-Pro certified. Please refer to the Snow & Ice Management supplemental Criteria section for guidance.

Stormwater Inspection Report

Project Name

Location

Date of Inspection

Start/End

Inspector's Name(s)

Inspector's Title(s)

Inspector's Contact Info

Type of Inspection

☐ **Regular** ☐ **Pre-storm event** ☐ **During storm event** ☐ **Post-storm event**

Do you suspect that discharges may have occurred since the last inspection?

☐ Yes ☐ No

Are there any discharges at the time of inspection?

☐ Yes ☐ No

	BMP Description	BMP Installed and Operating Properly?	Corrective Action Needed	Date for corrective action/responsible person
A	Street Sweeping			
	• Evidence of oil grease			
B	Catch Basins			
	• Inlet and outlet clear of debris	☐ Yes ☐ No		
	• Evidence of oil grease	☐ Yes ☐ No		
	• Accumulated sediment	☐ Yes ☐ No		
	• Evidence of structural deterioration	☐ Yes ☐ No		
	• Evidence of spalling or cracking of structural parts	☐ Yes ☐ No		
	• Other (specify)	☐ Yes ☐ No		
C	• Detention Basins/Forebay	☐ Yes ☐ No		
	• Basin bottom or trench surface clear of debris	☐ Yes ☐ No		
	• Inlet/Inflow pipes clear of debris	☐ Yes ☐ No		
	• Overflow spillway clear of debris	☐ Yes ☐ No		
	• Outlet clear of debris	☐ Yes ☐ No		
	• Basin dewaters between storms	☐ Yes ☐ No		
	• Accumulated sediment	☐ Yes ☐ No		
	• Embankment erosion	☐ Yes ☐ No		
	• Unauthorized planting	☐ Yes ☐ No		
	• Other (specify)			

	BMP Description	BMP Installed and Operating Properly?	Corrective Action Needed	Date for corrective action/responsible person
D	• Outlet Protection/Swales	☐ Yes ☐ No		
	• Inlet/Inflow pipes clear of debris	☐ Yes ☐ No		
	• Outlet clear of debris	☐ Yes ☐ No		
	• Evidence subsidence	☐ Yes ☐ No		
	• Tree growth	☐ Yes ☐ No		
	• Other (specify)			
E	• Infiltration Basins	☐ Yes ☐ No		
	• Basin bottom or trench surface clear of debris	☐ Yes ☐ No		
	• Inlet/Inflow pipes clear of debris	☐ Yes ☐ No		
	• Overflow spillway clear of debris	☐ Yes ☐ No		
	• Outlet clear of debris	☐ Yes ☐ No		
	• Basin dewaters between storms	☐ Yes ☐ No		
	• Accumulated sediment	☐ Yes ☐ No		
	• Embankment erosion	☐ Yes ☐ No		
	• Depth of Permanent Pool	_____ Ft		
	• Unauthorized planting	☐ Yes ☐ No		

Overall Site Issues

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
1	Is there evidence of sediment being tracked into the street?	☐ Yes ☐ No	☐ Yes ☐ No		
2	Is trash/litter collected and placed in covered dumpsters?	☐ Yes ☐ No	☐ Yes ☐ No		
3	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	☐ Yes ☐ No	☐ Yes ☐ No		
4	Are materials that are potential stormwater contaminants stored inside or under cover?	☐ Yes ☐ No	☐ Yes ☐ No		

Other Comments:

Inspection and Report prepared by:

Print name: _____

Signature: _____ Date: _____

Copies to:

☐ Owner: _____

☐ City: _____

☐ State: _____

Inspection & Maintenance Log

Area of I & M	Date of Inspection	Description of Maintenance Activity	Responsible Party for Performing Inspection/Maintenance

ENVIRONMENTAL
Fact Sheet

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

29 Hazen Drive, Concord, New Hampshire 03301 • (603) 271-3503 • www.des.nh.gov

WD-WMB-26 2016

Best Management Practices and Salt-Use Minimization Efforts In Chloride-Impaired Watersheds of New Hampshire

A Guidance Document for Private Developers and Contractors

Scientific studies in the southern part of New Hampshire determined over 40 streams have elevated levels of chloride. The elevated levels were high enough to be harmful to aquatic life, such as fish. Elevated levels can also be a drinking water health concern for people and animals, can lead to plant death, particularly along roadsides, and can cause damage to infrastructure and automobiles. The primary source of these chlorides is salt used for winter snow and ice management. The New Hampshire Department of Environmental Services (NHDES) calculated that a reduction of 25 percent to 45 percent salt use was needed in order to meet water quality standards. The studies also revealed that up to 50 percent of the salt load was coming from parking lots, driveways and private roads from salt that is used for de-icing.

NHDES encourages private developers and contractors, particularly those working within chloride-impaired watersheds, to adopt best management practices (BMPs) and salt-use reduction methods that will help improve water quality. NHDES also encourages private developers and contractors to consider winter maintenance during project design. Salt-use reduction can lead to long-term cost-savings as a result of purchasing less salt and reduced impacts on vegetation (e.g., landscaping) and corrosion of infrastructure and vehicles. This guidance document is designed to help guide developers and contractors in ways to reduce the use of salt, plan for BMPs and salt reduction methods, include design considerations, and document their snow and ice management plans. Taken together, these are the basic elements of a Salt Minimization Plan.

A REDUCTION IN SALT-USE DOES NOT MEAN A REDUCTION IN SAFETY

Liability for damage or personal injury as a result of snow or ice is one of the main reasons that over-salting occurs and many contractors are reluctant to implement salt reduction practices for fear of increased liability. However, recent studies have found there are BMPs that can be used that optimize salt use, reduce the application frequency and amounts applied and, at the same time, achieve safe levels of service. In addition, as of November 2013, Commercial Salt Applicators certified by NHDES under RSA 489-C, and property owners or managers who hire them, are granted limited liability protection against damages arising from snow and ice conditions.

WHAT DOES ALL THIS MEAN FOR PRIVATE DEVELOPERS AND CONTRACTORS?

Implementation plans for chloride reduction have been developed for a number of places in New Hampshire. Some of these plans are required by permits or other regulatory requirements. The NHDOT, towns, and private contractors who maintain parking lots, sidewalks, and roadways will be required to follow the implementation plans through certain federal and state permits. In other places, watershed-wide implementation plans have not yet been developed. In those areas, especially places that drain to chloride impaired waters, requirements to minimize salt usage are likely to be required of many new commercial and residential developments. Even in places with implementation plans, the need to reduce salt may be so extreme that it will require the concerted efforts of the state, municipalities and private landowners to restore water quality.

HOW CAN PRIVATE DEVELOPERS AND CONTRACTORS MINIMIZE SALT LOADING IN THE WATERSHED?

One of the most effective ways for private developers and contractors to reduce their portion of salt loading in the watershed is to learn more about winter maintenance BMPs and ways to be more effective at winter maintenance activities and to apply what is learned to current practices and future projects. There are three important ways for that to happen.

- **GET TRAINED AS A GREEN SNOWPRO**
  The University of New Hampshire Technology Transfer Center (UNH T^2) offers a full day Green SnowPro Training course focused on efficient, more environmentally friendly winter maintenance practices that do not compromise road, parking lot and sidewalk safety. The course covers the basics of salt reduction methods including equipment calibration and rate applications, pre-treatment methods, effective plowing and planning, salt accounting management and environmental impacts of salting. The course is offered several times a year. For more information, visit the UNH T^2 webpage at: http://t2.unh.edu/green-snowpro-training-and-nhdes-certification.

- **BECOME A NEW HAMPSHIRE CERTIFIED SALT APPLICATOR**
  Individuals who attend the Green SnowPro Training and pass the exam are eligible to apply for voluntary NHDES Salt Applicator Certification. The NHDES Salt Applicator Certification program aims to improve efficiency in salt use and reduce the amount of salt used by commercial applicators. The NHDES salt applicator certificate carries the responsibility of annually reporting salt use to NHDES and attending a refresher training course every two years. The Salt Applicator Certificate has proven valuable to the private contractors as well as to their clients and their insurance carriers. To date, 800 individuals have become Certified Salt Applicators. For more information on how to become a NH Certified Salt Applicator or to find a list of Certified Salt Applicators refer to the NHDES webpage at: http://des.nh.gov/organization/divisions/water/wmb/was/salt-reduction-initiative/salt-applicator-certification.htm

THE ANNUAL NEW HAMPSHIRE SALT SYMPOSIUM

Every year the NHDES hosts an annual NH Salt Symposium. Attendees are updated with the latest snow industry technologies and BMPs. The event counts toward continuing education credits for the NH Certified Green SnowPro Certificate, the New Hampshire Salt Applicator Certificate and T2 Roads Scholar Program Contact Hours. People interested in attending can learn more about the event or register online at http://www.sima.org/new-hampshire-salt-symposium.

- **DEVELOP A SALT MINIMIZATION PLAN(s)**
  NHDES encourages developers and contractors to develop a Salt Minimization Plan as part of, or in addition to, their Winter Maintenance Plan or Winter Snow and Ice Control Policy to help reduce and manage the use of salt. Also referred to as Chloride Reduction Plans or Salt Reduction Plans, these plans vary from large, metropolitan city plans to single development plans. Where they exist, the plan should align with the objectives outlined in the town's or watershed's chloride reduction implementation plan. A general outline and description of what information goes into a Salt Minimization Plan is included as an attachment to this guidance document.

OTHER WAYS TO REDUCE SALT-LOADING IN THE WATERSHED
(See Attachment B for a checklist of smart salting practices.)

- Be aware. Find out what the salt loading reduction goals are within the watershed and town where work generally occurs or where the specific project is located.
- Re-evaluate current practices. Source reduction is identified as the most effective method for reducing chloride loading.
- Consider alternative de-icing materials such as calcium magnesium acetate (CMA) and limited use of abrasives (sand, sawdust, cat litter).
- Pre-wet salt with brine to reduce the loss of salt from bounce and scatter (up to a 30% reduction in loss) and increase melting times.
- Be proactive for storm events and anti-ice by applying a small amount of liquid chemical to pavements and overpasses *before* a storm to prevent ice from bonding with the surface.
- If applicable, keep pavement free of potholes and cracks which both minimize the ability for water to pond and/or infiltrate into the ground where ultimately they could end up in groundwater resources. In addition, pavement that is in good condition allows for snow and or ice to be mechanically removed.
- Consider future maintenance needs in project planning.
    - Include development amenities/features such as heated sidewalks or parking garages.
    - Limit the amount of impervious surfaces that require winter maintenance activities. Some options to achieve this are only including sidewalks on one side of the street, the use of porous paving materials and limited use of curb cuts.
    - Properly design parking lots or designated parking areas with appropriate winter maintenance and snow storage practices. This includes considering where plowed snow will be piled, avoiding melt drainage to flow back across cleared areas (freeze/thaw cycle).
    - Consider landscape vegetation that is more salt tolerant and that doesn't shade out sidewalks or parking areas from the sun during the winter.
- Share information with the town and other landowners in the watershed to help track where salt is being applied, what quantity, and how often or the level of service based on the winter management plan. Track what BMPs are being applied to help determine effectiveness.
- Spread the word and encourage co-workers and colleagues to become a New Hampshire Certified Green SnowPro. Educate clients about the benefits of hiring a New Hampshire Certified Green SnowPro. The NHDES has developed a flyer for businesses to share with their colleagues

or clients available on the NHDES website. A link for this flyer and other helpful information is included below.

- Attend the annual New Hampshire Salt Symposium. The event counts toward the continuing education requirement of the New Hampshire Salt Applicator Certificate and as T2 Road Scholar Program contact hours.

OTHER RESOURCES AND REFERENCES:

For the complete list of NHDES resources including links to training and certification application materials available, please visit our website.
http://des.nh.gov/organization/divisions/water/wmb/was/salt-reduction-initiative/index.htm

Assessing the Efficacy of Current Road Salt Management Programs, University of Waterloo (2010)
http://www.saltinstitute.org/wp-content/uploads/2014/01/Road-Using-Best-Road-Salt-Management-Practices-Waterloo-2010-1.pdf

Environment and Climate Change Canada – technical documents, BMPs and general information.
http://www.ec.gc.ca/sels-salts/default.asp?lang=En&n=DECEDD7C-1

Finding Outstanding Resource Waters & Impaired Surface Waters with a 1-Mile Buffer for Development Projects, Quick Reference Guide, NHDES (2008)
http://des.nh.gov/organization/divisions/water/wmb/tmdl/documents/onestop_gis_wgc_ref_guide.pdf

Green SnowPro Business Flyer, NHDES
http://des.nh.gov/organization/divisions/water/wmb/was/salt-reduction-initiative/documents/green-snowpro-business-flyer.pdf

Pre-wetting and Anti-icing – Techniques for Winter Road Maintenance, a Wisconsin Transportation Bulletin - No. 22.
http://epdfiles.engr.wisc.edu/pdf_web_files/tic/bulletins/Bltn_022_prewetting_antiicing.pdf

Salt Reduction Best Management Practices (several Fact Sheet links available)
http://des.nh.gov/organization/divisions/water/wmb/was/salt-reduction-initiative/tech-assist-bmp-practices.htm

Snow and Ice Removal for the Business Owner – Clean Water and Safe Parking Lots, NHDES (2014)
http://des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-24.pdf

Snow Disposal Guidelines, NHDES (2015)
http://des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-3.pdf

Road Salt and Water Quality, NHDES (2016)
http://des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-4.pdf

Sensible Salting Strategy of Parking Lots and Sidewalks, The Salt Institute (2015)
http://www.saltinstitute.org/research/sensible-salting-strategy-of-parking-lots-and-sidewalks/

Winter Parking Lot and Sidewalk Maintenance Manual, Minnesota Pollution Control Agency (2015)
https://www.pca.state.mn.us/sites/default/files/p-tr1-10.pdf

ATTACHMENT A - DEVELOPING A SALT MINIMIZATION PLAN

Developing a Salt Minimization Plan will go a long way towards reducing salt-use, i.e., salt loading within the watershed. The development of this plan will help private developers and contractors to hone in on how much salt is needed, when it should be applied, where it needs to be applied, etc. with the ultimate goal of reducing salt-use without compromising safety. Salt-use reduction also leads to long-term cost-savings as a result of purchasing less salt and reduced impacts on vegetation (e.g., landscaping) and corrosion of infrastructure and vehicles, and a reduction in well replacements. Reduction in the use of salt does not mean a reduction in level of service or public safety; in fact many contractors who complete the Green SnowPro training course have been able to provide the same level of service while reducing their salt use by 30%.

It is important to anticipate that this will be a living document that will likely need to be updated at some point. Reduction goals may fluctuate from year to year due to improvements in technology and BMPs, a town's requirements, or state and federal permit conditions that result in private developers or contractors to alter practices, particularly as more development occurs. It is good practice to review and update the plan(s) annually, early in advance of the winter season so that there is time to make any necessary adjustments.

In general NHDES recommends that the plan include:

- **Introduction/Background** – Identify the purpose and need for the plan. This section should describe any current chloride impairments and salt reduction goals within the watershed and town. If there is a Winter Maintenance Plan or Winter Snow and Ice Control Policy already in place, this section should briefly describe how this salt minimization plan fits in with the more general winter maintenance approach and BMP practices. It may be that many of the items below are already adequately covered in the broader Winter Maintenance Plan.
- **Development or Project Area Description** – Describe the development. How many linear feet roadways or sidewalks are there? Discuss the main features and layout of the site including stormwater runoff /topography, as well as vegetation and shaded areas. Including a general map of the development that identifies these features is helpful.
- **Operational Guidelines** – Identify who the responsible party is for the maintenance activities and lists out contracting requirements and minimum specifications for de-icing, anti-icing and pretreatment practices and equipment. This guideline should describe the level of service required by the development which directly impacts maintenance operation plans.
    - **Winter Operator Certification Requirements** – This section outlines employed or contracted contractors training and certification requirements. (Green SnowPro Training is recommended).
    - **Weather Monitoring** – Outline where weather information will be gathered from and how it is used to ensure that winter operators are making informed decisions as to when and to what extent materials are applied to private roadways, sidewalks and parking lots. An important part of this will be developing a good communication plan that identified key personal responsible for weather monitoring.
    - **Equipment Calibration Requirements** – Outline all winter equipment calibration requirements. Typically a 25% reduction in salt use can be achieved simply by calibrating equipment, and is the single most important aspect to achieving salt use reductions.
    - **Mechanical Removal** – Describe mechanical removal practices such as where snow should be stored and how often plowing should occur as well as goals, such as

mechanical removal, that minimize snow- and ice-pack that reduce the need for abrasives, salt and or brine applicants.

- **Salt Usage Evaluation and Monitoring** – Describe how salt usage will be documented and how salt use will be monitored and evaluated in conjunction with the town's salt reduction plan (if applicable). Monitoring salt usage as well as winter maintenance actions is key to determining what works, how much salt and other winter maintenance materials were used and estimating what is needed for the next winter season, and if salt minimization plan goals contributed to salt load reductions in the watershed. It is recommended that a report be developed annually shortly following the winter season, and provided to the town in which the development or work is occurring in for use in documenting private contractor use and allocations in the watershed. A schedule for how often the Salt Minimization Plan is updated should be included and tracked within this section as well.

Salt Evaluation and Monitoring Elements:
- ✓ Where the maintenance is occurring.
- ✓ What the activity being performed is and/or what equipment is being used.
- ✓ What the weather conditions are - include:
  - Event timing (pre-storm, during, post-weather event)
  - Air and ground temperatures
- ✓ Time of activity
- ✓ Application rates
- ✓ Results
- ✓ Other info – BMPs in practice for consideration, etc.

- **Analysis of Alternative De-icing Materials**, **Site Design Considerations and Watershed Offsets** – Describe alternative de-icing materials that could be used for winter maintenance activities, such as calcium magnesium acetate, and discuss what was considered, incorporated, and/or eliminated and why. Discuss what site design features or amenities were incorporated or considered, such as parking garages, heated sidewalks, vegetation, etc., to minimize salt use. Include a discussion on other options for offsets within the watershed such as educating others and applying good salt application strategies to other facilities.

Not all items above need to be included within the plan, generally the more complex the project, the more detailed the plan. In addition, some of these items may already be thoroughly covered in the broader Winter Maintenance Plan. NHDES staff are available to discuss and help identify what level of detail is necessary to achieve salt-minimization for any type or size of project.

ATTACHMENT B – SMART SALTING PRACTICES

A checklist for snow and ice maintenance contractors.

Recommended practice	Check which response applies to current practices and anticipated site maintenance activities for job site.				
	Already do	Will do	Might do	Will not do	If "will not do"….why not?
Use an application rate chart.					
Calibrate equipment each year.					
Learn about the deicer ingredients and use the appropriate one for the condition.					
Look for reasons if and why materials are leaking or spilling from vehicles and fix them (e.g. gaps, overfilling, etc).					
Develop a comprehensive winter maintenance policy. Follow your policy.					
Measure and use pavement temperatures.					
Use anti-icing appropriately prior to the storm.					
Plow before applying deicers.					
Use wet materials (pre-wet or pre-treated).					
Don't apply sodium chloride (road salt) for pavement temperatures below 15ºF.					
Don't apply deicers for pavement temps under -10º F. It's too cold.					
Separate salt and sand. Use salt for melting. Use sand for traction.					
Apply deicers in the center of the road or on the high side of the curve.					
Store the salt in a building or under secure cover.					
Store salt away from water flow and direct the water away from storage area.					
Store snow away from lakes, ponds and wetlands.					
Sweep up sand, dispose of properly.					
For each event, document what you did and how well it worked. Use this information to make improvements.					

Checklist is adapted from worksheet created by Fortin Consulting as a part of the Minnesota Pollution Control Agency Smart Salting Voluntary Certification Program.

Anti-Icing

NH Best Management Practices

GET OUT EARLY

Typically anti-icing is most effective if applied 1-2 hours before the precipitation begins however it can be applied up to 24 hours in advance.

TRY IT FIRST

Trying anti-icing for the first time? Make a 23.3% brine solution and before a storm spray pavement on your own property using a masonry/ plant sprayer. Use this experiment to determine how best to use it with your clients.

LEAVE SOME PAVEMENT BARE

It's always best to use stream nozzles instead of fan tip to avoid creating a slippery condition. If the anti-icing liquid freezes the bare pavement will still provide a traction surface.

USE A FILTER

Having a filter in your liquid dispensing system will reduce clogs in your nozzle. Automotive in line fuel filters work quiet well. If your liquid dispenser is not functioning properly be sure to check the filter first.

A Proactive Treatment

Anti-Icing before a storm is very similar to using a non-stick spray on a pan before cooking. Just like a non-stick spray prevents food from bonding to the pan, anti-icing prevents snow and ice from bonding to the pavement so that it can be plowed away. Anti-icing can save you money as it costs 50% less than reactive deicing.

Make Your Own Salt Brine

When making brine it is important to add enough salt to produce a 23.3% solution which freezes around 0°F. Roughly 2.5lb per gallon of water will produce a 23.3% solution. You can verify using a salometer (~$20) a 23.3% solution will have a specific gravity of 1.176, or 85% salinity. Consult the Brine Making BMP sheet for more info.

How Much Should I Use and When?

You can apply brine up to 24 hours in advance of the storm. Typical application rates range from 0.5 to 0.75 gallon per 1000 sq.ft. (10' x 100' area). Other chemicals such as magnesium are also available—consult your supplier for application rates. Anti-icing is not advised prior to freezing rain events.

Getting Started

Try making your own salt brine by putting 13 lb of salt in 5 gallons of water to get a 23.3% salt brine solution. Mix the brine until all of the salt is dissolved. Using a masonry sprayer apply the liquid several hours before a storm. Start by applying about 0.25—0.5 gallons to a 10' x 50' area. Adjust the application rates based on your experience. Being careful not to over apply and cause a slippery condition.

Produced in partnership with:

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

New Hampshire DOT

Technology Transfer Center
New Hampshire LTAP at UNH

Appendix C.
Deicing Application Rates and Documentation Form

Deicing Application Rate Guidelines

24' of pavement (typcial two-lane road)

These rates are not fixed values, but rather the middle of a range to be selected and adjusted by an agency according to its local conditions and experience.

			Pounds per two-lane mile			
Pavement Temp. (°F) and Trend (↑↓)	Weather Condition	Maintenance Actions	Salt Prewetted / Pretreated with Salt Brine	Salt Prewetted / Pretreated with Other Blends	Dry Salt*	Winter Sand (abrasives)
> 30° ↑	Snow	Plow, treat intersections only	80	70	100*	Not recommended
	Freezing Rain	Apply Chemical	80 - 160	70 - 140	100 - 200*	Not recommended
30° ↓	Snow	Plow and apply chemical	80 - 160	70 - 140	100 - 200*	Not recommended
	Freezing Rain	Apply Chemical	150 - 200	130 - 180	180 - 240*	Not recommended
25° - 30° ↑	Snow	Plow and apply chemical	120 - 160	100 - 140	150 - 200*	Not recommended
	Freezing Rain	Apply Chemical	150 - 200	130 - 180	180 - 240*	Not recommended
25° - 30° ↓	Snow	Plow and apply chemical	120 - 160	100 - 140	150 - 200*	Not recommended
	Freezing Rain	Apply Chemical	160 - 240	140 - 210	200 - 300*	400
20° - 25° ↑	Snow or Freezing Rain	Plow and apply chemical	160 - 240	140 - 210	200 - 300*	400
20° - 25° ↓	Snow	Plow and apply chemical	200 - 280	175 - 250	250 - 350*	Not recommended
	Freezing Rain	Apply Chemical	240 - 320	210 - 280	300 - 400*	400
15° - 20° ↑	Snow	Plow and apply chemical	200 - 280	175 - 250	250 - 350*	Not recommended
	Freezing Rain	Apply Chemical	240 - 320	210 - 280	300 - 400*	400
15° - 20° ↓	Snow or Freezing Rain	Plow and apply chemical	240 - 320	210 - 280	300 - 400*	500 for freezing rain
0° - 15° ↑↓	Snow	Plow, treat with blends, sand hazardous areas	Not recommended	300 - 400	Not recommended	500 - 750 spot treatment as needed
< 0°	Snow	Plow, treat with blends, sand hazardous areas	Not recommended	400 - 600**	Not recommended	500 - 750 spot treatment as needed

* Dry salt is not recommended. It is likely to blow off the road before it melts ice.

** A blend of 6 - 8 gal/ton $MgCl_2$ or $CaCl_2$ added to NaCl can melt ice as low as -10°.

Anti-icing Route Data Form

Truck Station:

Date:

Air Temperature	Pavement Temperature	Relative Humidity	Dew Point	Sky

Reason for applying:

Route:

Chemical:

Application Time:

Application Amount:

Observation (first day):

Observation (after event):

Observation (before next application):

Name:

Deicing Log

Area of Treatment in Square Feet	Date of Treatment	Amount of Deicing Materials Applied	Type of Deicing Materials Applied	Responsible Party for Applying Materials

CONTROL OF INVASIVE PLANTS

During maintenance activities, check for the presence of invasive plants and remove in a safe manner as described on the following pages. They should be controlled as described on the following pages.

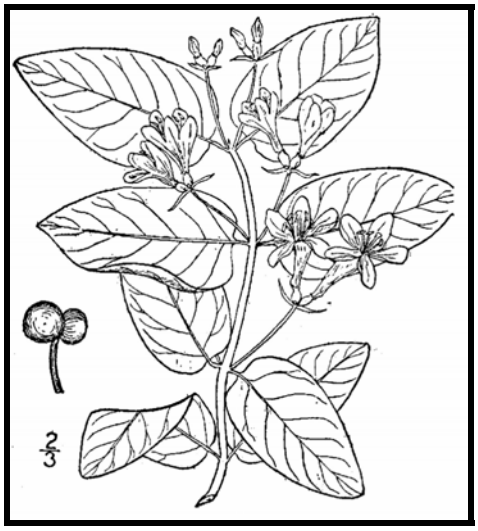
Invasive plants are introduced, alien, or non-native plants, which have been moved by people from their native habitat to a new area. Some exotic plants are imported for human use such as landscaping, erosion control, or food crops. They also can arrive as "hitchhikers" among shipments of other plants, seeds, packing materials, or fresh produce. Some exotic plants become invasive and cause harm by:

- becoming weedy and overgrown;
- killing established shade trees;
- obstructing pipes and drainage systems;
- forming dense beds in water;
- lowering water levels in lakes, streams, and wetlands;
- destroying natural communities;
- promoting erosion on stream banks and hillsides; and
- resisting control except by hazardous chemical.

UNIVERSITY of NEW HAMPSHIRE COOPERATIVE EXTENSION

Methods for Disposing Non-Native Invasive Plants

Prepared by the Invasives Species Outreach Group, volunteers interested in helping people control invasive plants. Assistance provided by the Piscataquog Land Conservancy and the NH Invasives Species Committee. Edited by Karen Bennett, Extension Forestry Professor and Specialist.



Tatarian honeysuckle
Lonicera tatarica
USDA-NRCS PLANTS Database / Britton, N.L., and A. Brown. 1913. *An illustrated flora of the northern United States, Canada and the British Possessions*. Vol. 3: 282.

Non-native invasive plants crowd out natives in natural and managed landscapes. They cost taxpayers billions of dollars each year from lost agricultural and forest crops, decreased biodiversity, impacts to natural resources and the environment, and the cost to control and eradicate them.

Invasive plants grow well even in less than desirable conditions such as sandy soils along roadsides, shaded wooded areas, and in wetlands. In ideal conditions, they grow and spread even faster. There are many ways to remove these non-native invasives, but once removed, care is needed to dispose the removed plant material so the plants don't grow where disposed.

Knowing how a particular plant reproduces indicates its method of spread and helps determine the appropriate disposal method. Most are spread by seed and are dispersed by wind, water, animals, or people. Some reproduce by vegetative means from pieces of stems or roots forming new plants. Others spread through both seed and vegetative means.

Because movement and disposal of viable plant parts is restricted (see NH Regulations), viable invasive parts can't be brought to most transfer stations in the state. Check with your transfer station to see if there is an approved, designated area for invasives disposal. This fact sheet gives recommendations for rendering plant parts non-viable.

Control of invasives is beyond the scope of this fact sheet. For information about control visit www.nhinvasives.org or contact your UNH Cooperative Extension office.

New Hampshire Regulations

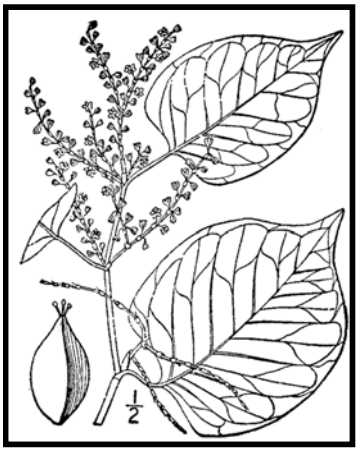
Prohibited invasive species shall only be disposed of in a manner that renders them nonliving and nonviable. (Agr. 3802.04)

No person shall collect, transport, import, export, move, buy, sell, distribute, propagate or transplant any living and viable portion of any plant species, which includes all of their cultivars and varieties, listed in Table 3800.1 of the New Hampshire prohibited invasive species list. (Agr 3802.01)

How and When to Dispose of Invasives?

To prevent seed from spreading remove invasive plants before seeds are set (produced). Some plants continue to grow, flower and set seed even after pulling or cutting. Seeds can remain viable in the ground for many years. If the plant has flowers or seeds, place the flowers and seeds in a heavy plastic bag "head first" at the weeding site and transport to the disposal site. The following are general descriptions of disposal methods. See the chart for recommendations by species.

Burning: Large woody branches and trunks can be used as firewood or burned in piles. For outside burning, a written fire permit from the local forest fire warden is required unless the ground is covered in snow. Brush larger than 5 inches in diameter can't be burned. Invasive plants with easily airborne seeds like black swallow-wort with mature seed pods (indicated by their brown color) shouldn't be burned as the seeds may disperse by the hot air created by the fire.



Japanese knotweed
Polygonum cuspidatum
USDA-NRCS PLANTS Database / Britton, N.L., and A. Brown. 1913. *An illustrated flora of the northern United States, Canada and the British Possessions*. Vol. 1: 676.

Bagging (solarization): Use this technique with softer-tissue plants. Use heavy black or clear plastic bags (contractor grade), making sure that no parts of the plants poke through. Allow the bags to sit in the sun for several weeks and on dark pavement for the best effect.

Tarping and Drying: Pile material on a sheet of plastic and cover with a tarp, fastening the tarp to the ground and monitoring it for escapes. Let the material dry for several weeks, or until it is clearly nonviable.

Chipping: Use this method for woody plants that don't reproduce vegetatively.

Burying: This is risky, but can be done with watchful diligence. Lay thick plastic in a deep pit before placing the cut up plant material in the hole. Place the material away from the edge of the plastic before covering it with more heavy plastic. Eliminate as much air as possible and toss in soil to weight down the material in the pit. Note that the top of the buried material should be at least three feet underground. Japanese knotweed should be at least 5 feet underground!

Drowning: Fill a large barrel with water and place soft-tissue plants in the water. Check after a few weeks and look for rotted plant material (roots, stems, leaves, flowers). Well-rotted plant material may be composted. A word of caution- seeds may still be viable after using this method. Do this before seeds are set. This method isn't used often. Be prepared for an awful stink!

Composting: Invasive plants can take root in compost. Don't compost any invasives unless you know there is no viable (living) plant material left. Use one of the above techniques (bagging, tarping, drying, chipping, or drowning) to render the plants nonviable before composting. Closely examine the plant before composting and avoid composting seeds.

Be diligent looking for seedlings for *years* in areas where removal and disposal took place.

Suggested Disposal Methods for Non-Native Invasive Plants

This table provides information concerning the disposal of removed invasive plant material. If the infestation is treated with herbicide and left in place, these guidelines don't apply. Don't bring invasives to a local transfer station, unless there is a designated area for their disposal, or they have been rendered non-viable. This listing includes wetland and upland plants from the New Hampshire Prohibited Invasive Species List. The disposal of aquatic plants isn't addressed.

<table>
<tr><th>Woody Plants</th><th>Method of Reproducing</th><th>Methods of Disposal</th></tr>
<tr><td rowspan="2">Norway maple
(Acer platanoides)
European barberry
(Berberis vulgaris)
Japanese barberry
(Berberis thunbergii)
autumn olive
(Elaeagnus umbellata)
burning bush
(Euonymus alatus)
Morrow's honeysuckle
(Lonicera morrowii)
Tatarian honeysuckle
(Lonicera tatarica)
showy bush honeysuckle
(Lonicera x bella)
common buckthorn
(Rhamnus cathartica)
glossy buckthorn
(Frangula alnus)</td><td rowspan="2">Fruit and Seeds
  </td><td>Prior to fruit/seed ripening
Seedlings and small plants
▪ Pull or cut and leave on site with roots exposed. No special care needed.
Larger plants
▪ Use as firewood.
▪ Make a brush pile.
▪ Chip.
▪ Burn.</td></tr>
<tr><td>After fruit/seed is ripe
Don't remove from site.
▪ Burn.
▪ Make a covered brush pile.
▪ Chip once all fruit has dropped from branches.
▪ Leave resulting chips on site and monitor.</td></tr>
<tr><td rowspan="2">oriental bittersweet
(Celastrus orbiculatus)
multiflora rose
(Rosa multiflora)</td><td rowspan="2">Fruits, Seeds, Plant Fragments
  </td><td>Prior to fruit/seed ripening
Seedlings and small plants
▪ Pull or cut and leave on site with roots exposed. No special care needed.
Larger plants
▪ Make a brush pile.
▪ Burn.</td></tr>
<tr><td>After fruit/seed is ripe
Don't remove from site.
▪ Burn.
▪ Make a covered brush pile.
▪ Chip – only after material has fully dried (1 year) and all fruit has dropped from branches. Leave resulting chips on site and monitor.</td></tr>
</table>

<table>
<tr><th>Non-Woody Plants</th><th>Method of Reproducing</th><th>Methods of Disposal</th></tr>
<tr><td rowspan="2">garlic mustard
(Alliaria petiolata)
spotted knapweed
(Centaurea maculosa)
▪ Sap of related knapweed can cause skin irritation and tumors. Wear gloves when handling.
black swallow-wort
(Cynanchum nigrum)
▪ May cause skin rash. Wear gloves and long sleeves when handling.
pale swallow-wort
(Cynanchum rossicum)
giant hogweed
(Heracleum mantegazzianum)
▪ Can cause major skin rash. Wear gloves and long sleeves when handling.
dame’s rocket
(Hesperis matronalis)
perennial pepperweed
(Lepidium latifolium)
purple loosestrife
(Lythrum salicaria)
Japanese stilt grass
(Microstegium vimineum)
mile-a-minute weed
(Polygonum perfoliatum)</td><td rowspan="2">Fruits and Seeds
  </td><td>Prior to flowering
Depends on scale of infestation
Small infestation
▪ Pull or cut plant and leave on site with roots exposed.

Large infestation
▪ Pull or cut plant and pile. (You can pile onto or cover with plastic sheeting).
▪ Monitor. Remove any re-sprouting material.</td></tr>
<tr><td>During and following flowering
Do nothing until the following year or remove flowering heads and bag and let rot.

Small infestation
▪ Pull or cut plant and leave on site with roots exposed.

Large infestation
▪ Pull or cut plant and pile remaining material. (You can pile onto plastic or cover with plastic sheeting).
▪ Monitor. Remove any re-sprouting material.</td></tr>
<tr><td>common reed
(Phragmites australis)
Japanese knotweed
(Polygonum cuspidatum)
Bohemian knotweed
(Polygonum x bohemicum)</td><td>Fruits, Seeds, Plant Fragments
Primary means of spread in these species is by plant parts. Although all care should be given to preventing the dispersal of seed during control activities, the presence of seed doesn’t materially influence disposal activities.</td><td>Small infestation
▪ Bag all plant material and let rot.
▪ Never pile and use resulting material as compost.
▪ Burn.

Large infestation
▪ Remove material to unsuitable habitat (dry, hot and sunny or dry and shaded location) and scatter or pile.
▪ Monitor and remove any sprouting material.
▪ Pile, let dry, and burn.</td></tr>
</table>

January 2010

GUIDE TO CONTROL OF INVASIVE PLANTS

New Hampshire Department of Agriculture, Markets & Food
Douglas Cygan
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This guide lists garden plants and weeds which are already causing significant changes to natural areas in the Mid-Atlantic. **Measures for controlling each species are indicated by number, e.g., (3), in the text with a full explanation at the end of this article.** Click on the word Control: to jump to that section. Then click your "back" button to return to the text. Following each section suggested alternative plants are given. These alternatives are native plants, well adapted and needing little care, attractive to birds and butterflies, and an important part of the food web for our indigenous species.

NORWAY MAPLE (*Acer platanoides*) has large leaves similar to sugar maple. To easily confirm that the plant is Norway maple, break off a leaf and if it's truly Norway maple it will exude milky white sap. Fall foliage is yellow. (Exception: cultivars such as 'Crimson King,' which have red leaves in spring or summer, may have red autumn leaves.) The leaves turn color late, usually in late October after native trees have dropped their foliage. This tree suppresses growth of grass, garden plants, and forest understory beneath it, at least as far as the drip-line. Its wind-borne seeds can germinate and grow in deep shade. The presence of young Norway maples in our woodlands is increasing.
Control: (1); (7), (8), (9), or (10); (11) in mid-October to early November, before the leaves turn color.

TREE OF HEAVEN (*Ailanthus altissima*), is incredibly tough and can grow in the poorest conditions. It produces huge quantities of wind-borne seeds, grows rapidly, and secretes a toxin that kills other plants. Its long compound leaves, with 11-25 lance-shaped leaflets, smell like peanut butter or burnt coffee when crushed. Once established, this tree cannot be removed by mechanical means alone.
Control: (1) - seedlings only. Herbicide - use Garlon 3a (9) with no more than a 1" gap between cuts, or (10); plus (11) on re-growth. Or paint bottom 12" of bark with Garlon 4 Ultra (in February or March to protect surrounding plants). USE MAXIMUM STRENGTH SPECIFIED ON LABEL for all herbicide applications on Ailanthus. Glyphosate is not effective against Ailanthus.

AUTUMN OLIVE (*Eleagnus umbellata*): Formerly recommended for erosion control and wildlife value, these have proved highly invasive and diminish the overall quality of wildlife habitat.
Control: (1) - up to 4" diameter trunks; (7) or (10) or bury stump. Do not mow.

MULTIFLORA ROSE (*Rosa multiflora*), formerly recommended for erosion control, hedges, and wildlife habitat, becomes a huge shrub that chokes out all other vegetation and is too dense for many species of birds to nest in, though a few favor it. In shade, it grows up trees like a vine. It is covered with white flowers in June. (Our native roses have fewer flowers, mostly pink.) Distinguish multiflora by its size, and by the presence of very hard, curved thorns, and a fringed edge to the leaf stalk.
Control: (1) - pull seedlings, dig out larger plants at least 6" from the crown and 6" down; (4) on extensive infestations; (10) or (11). It may remain green in winter, so herbicide may *applied when other plants are dormant. For foliar application, mix Rodeo with extra sticker-spreader, or use Roundup Sure Shot Foam on small plants.*

BUSH HONEYSUCKLES (*Lonicera spp.*), including Belle, Amur, Morrow's, and Tatarian honeysuckle. (In our region, assume that any honeysuckle is exotic unless it is a scarlet-flowered vine). Bush honeysuckles create denser shade than native shrubs, reducing plant diversity and eliminating nest

sites for many forest interior species.
Control: (2) on ornamentals; (1); on shady sites only, brush cut in early spring and again in early fall (3); (4) during the growing season; (7); or (10) late in the growing season.

BLUNT-LEAVED PRIVET (*Ligustrum* obtusifolium). *Control:* (1); (7) or (10); or trim off all flowers. Do not cut back or mow.

BURNING BUSH, WINGED EUONYMUS (*Euonymus alatus*), identified by wide, corky wings on the branches.
Control: (1); (7) or (10); or trim off all flowers.

JAPANESE BARBERRY (*Berberis thunbergii*), and all cultivars and varieties.
Control: (1); (7) or (10); or trim off all flowers.

All of these vines shade out the shrubs and young trees of the forest understory, eventually killing them, and changing the open structure of the forest into a dense tangle. DO NOT PLANT NEXT TO OPEN SPACE.

JAPANESE HONEYSUCKLE (*Lonicera japonica*), including Hall's honeysuckle, has gold-and-white flowers with a heavenly scent and sweet nectar in June. This is probably the familiar honeysuckle of your childhood. It is a rampant grower that spirals around trees, often strangling them.
Control: (1); (3); (10); (11) in fall or early spring when native vegetation is dormant. Plan to re-treat repeatedly.

ORIENTAL BITTERSWEET (*Celastrus orbiculatus*) has almost completely displaced American bittersweet (*C. scandens*). The Asian plant has its flowers and bright orange seed capsules in clusters all along the stem, while the native species bears them only at the branch tips.
Control: (1); keep ornamental plants cut back, remove all fruits as soon as they open, and bag or burn fruits; to eradicate use Garlon 3a (10).

JAPANESE KNOTWEED, MEXICAN BAMBOO (*Polygonum cuspidatum*) can grow in shade. The stems have knotty joints, reminiscent of bamboo. It grows 6-10' tall and has large pointed oval or triangular leaves.
Control: Cut at least 3 times each growing season and/or treat with Rodeo (10) or (11). In gardens, heavy mulch or dense shade may kill it.

GARLIC MUSTARD (*Alliaria petiolata*, *A. officinalis*), a white-flowered biennial with rough, scalloped leaves (kidney-, heart- or arrow-shaped), recognizable by the smell of garlic and taste of mustard when its leaves are crushed. (The odor fades by fall.)
Control: Pull before it flowers in spring (1), removing crown and roots. Tamp down soil afterwards. Once it has flowered, cut (2), being careful not to scatter seed, then bag and burn or send to the landfill. (11) may be appropriate in some settings.

JAPANESE STILT GRASS (*Microstegium vimineum*) can be identified by its lime-green color and a line of silvery hairs down the middle of the 2-3" long blade. It tolerates sun or dense shade and quickly invades areas left bare or disturbed by tilling or flooding. An annual grass, it builds up a large seed bank in the soil.
Control: Easily pulled in early to mid-summer (1) - be sure to pull before it goes to seed. If seeds have formed, bag and burn or send to landfill. Mowing weekly or when it has just begun to flower may prevent it from setting seed (3). Use glyphosate (11) or herbicidal soap (less effective) on large infestations. Follow up with

(5) in spring.

MILE-A-MINUTE VINE, DEVIL'S TAIL TEARTHUMB (*Polygonum perfoliatum*), a rapidly growing annual vine with triangular leaves, barbed stems, and turquoise berries in August which are spread by birds. It quickly covers and shades out herbaceous plants.

Control: same as for stilt grass.

SPOTTED KNAPWEED (*Centaurea maculosa*), a biennial with thistle-like flowers.

Control: Do NOT pull (1) unless the plant is young and the ground is very soft - the tap root will break off and produce several new plants. Wear sturdy gloves. (2); (6); (10) or (11).

(1) PULL seedlings and small or shallow-rooted plants when soil is moist. Dig out larger plants, including the root systems. Use a forked spade or weed wrench for trees or shrubs.

(2) DEADHEAD to prevent spread of seeds of invasive plants. Cut off seeds or fruits before they ripen. Bag, and burn or send to a landfill.

(3) MOW or CUTTING at least 4 times a season to deplete plants' store of nutrients and carbohydrates, reduce seed formation, and kill or minimize spread of plants. If necessary, repeat each year.

(4) CONTROLLED BURNING during the spring, repeated over several years, allows native vegetation to compete more effectively with the invasive species. This requires a permit. Spot treatment with glyphosate in late fall can be used to make this method more effective.

(5) Use a CORN-BASED PRE-EMERGENCE HERBICIDE on annual weeds. This product is also an organic fertilizer, i.e., it can stimulate growth of existing plants, including weeds, so it is appropriate for lawns and gardens but may not be appropriate in woodlands.

(6) In lawns, SPOT TREAT with BROAD-LEAF WEEDKILLER. Good lawn-care practices (test soil; use lime and fertilizer only when soil test shows a need; mow high and frequently; leave clippings on lawn) reduce weed infestations.

(7) CUT DOWN the tree. Grind out the stump, or clip off re-growth.

(8) GIRDLE tree: cut through the bark and growing layer (cambium) all around the trunk, about 6" above the ground. Girdling is most effective in spring when the sap is rising, and from middle to late summer when the tree is sending down food to the roots. Clip off sucker sprouts.

(9) FRILL: Using a machete, hatchet or similar device, hack scars (several holes in larger trees) downward into the cambium layer, and squirt in glyphosate (or triclopyr if recommended in text above). Follow label directions for Injection and Frill Applications. This is most effective from middle to late summer. Clip off any sucker sprouts or treat with glyphosate.

(10) CUT STEM / CUT STUMP WITH GLYPHOSATE (or triclopyr if specified above). Follow label directions for Cut Stump Application. Clip off sucker sprouts or paint with glyphosate. See Note on Herbicides.

(11) FOLIAR SPRAY WITH GLYPHOSATE herbicide (see Note on Herbicides). Use a backpack or garden sprayer or mist blower, following label directions. Avoid overspray and/or dripping onto non-target plants, because glyphosate kills most plants except moss. If it rolls off waxy or grass-like foliage, use additional sticker-spreader. Deciduous trees, shrubs, and perennials move nutrients down to the roots in late summer. Glyphosate is particularly effective at this time and when plants have just gone out of flowering. Several invasive species retain their foliage after native plants have lost theirs, and resume growth earlier in spring than most natives. This allows you to treat them without harming the natives. However, the plant must be actively growing for the herbicide to work. Retreatments may be necessary the following year if suckering occurs or the plant hasn't been entirely killed.

NOTE ON HERBICIDES: It is highly recommended that small populations try to be controlled using non-chemical methods wherever feasible. However, for large infestations, and for a few plants specified above, herbicide use is essential. Apply herbicides carefully to avoid non-target plants, glyphosate is the least environmentally damaging herbicide in most cases. Add food coloring for visibility, and a soap-based sticker such as Cide-Kick. Glyphosate is ineffective on some plants; for these, triclopyr (Garlon) may be indicated. When using herbicides, read the entire label and observe all precautions listed, including proper disposal. If in doubt, call your local Cooperative Extension Service.

NHDES Alteration of Terrain

VII. INFILTRATION PRACTICE SUPPLEMENTAL CRITERIA

A. Infiltration Feasibility Report

B. Registration and Notification Form for Stormwater Infiltration

NHDES Alteration of Terrain

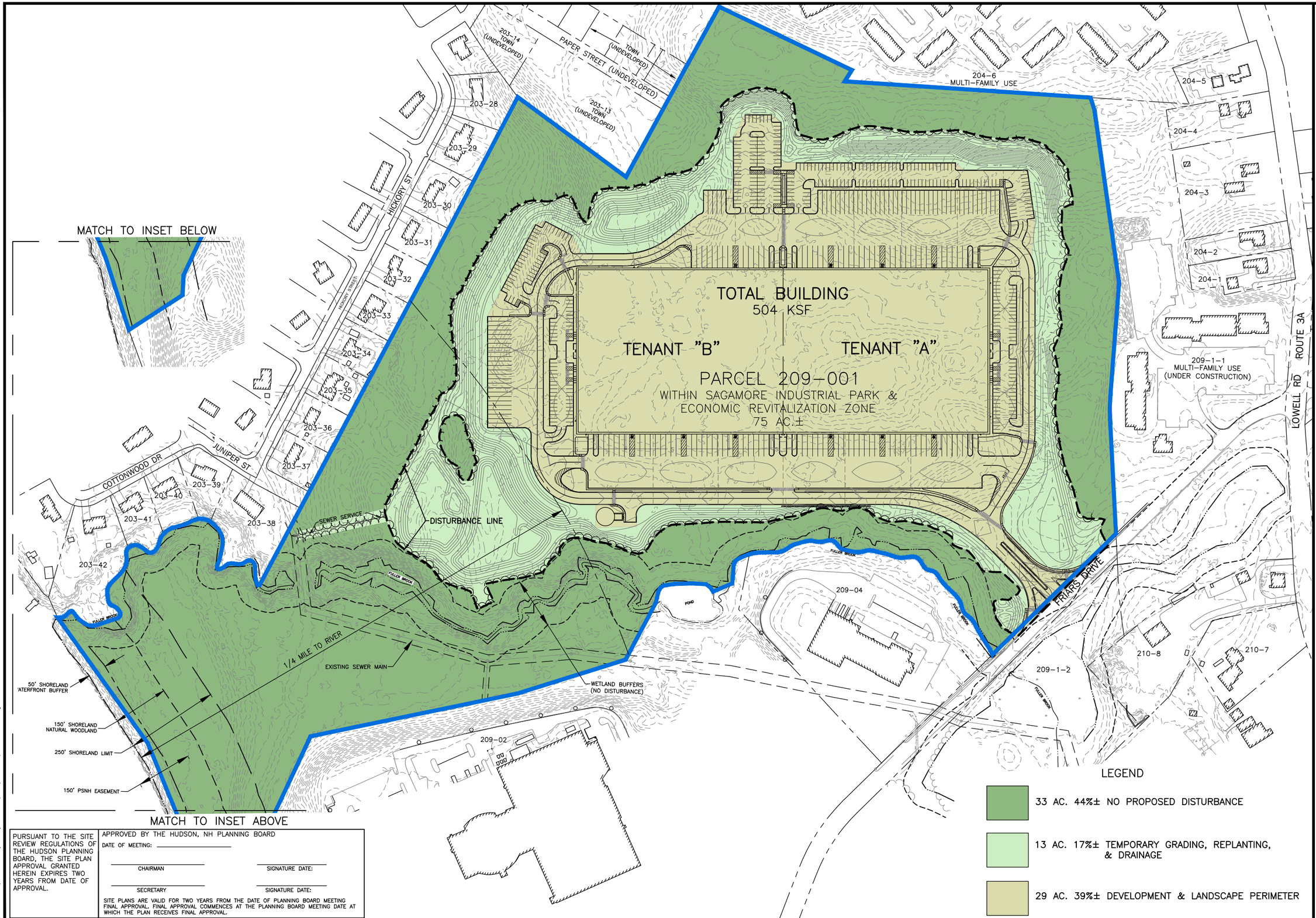
VIII. DRAINAGE AREA PLANS

A. Project Area Plan

B. Color Coded Soil Plan

C. Pre-Development Drainage Area Plan

D. Post-Development Drainage Area Plan



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SITE PLAN
FRIARS DRIVE
TAX MAP 209
LOT 001-000
161 LOWELL ROAD
HUDSON, NH

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GFI PARTNERS

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BOSTON, MA 02110

OWNER
5 WAY REALTY TRUST
PETER HORNE, TRUSTEE
PO BOX 1435
N. HAMPTON, NH 03862

SHEET TITLE:
PROJECT AREA PLAN

PROJECT #475 SHEET 1 OF 1

WATERSHED LEGEND:

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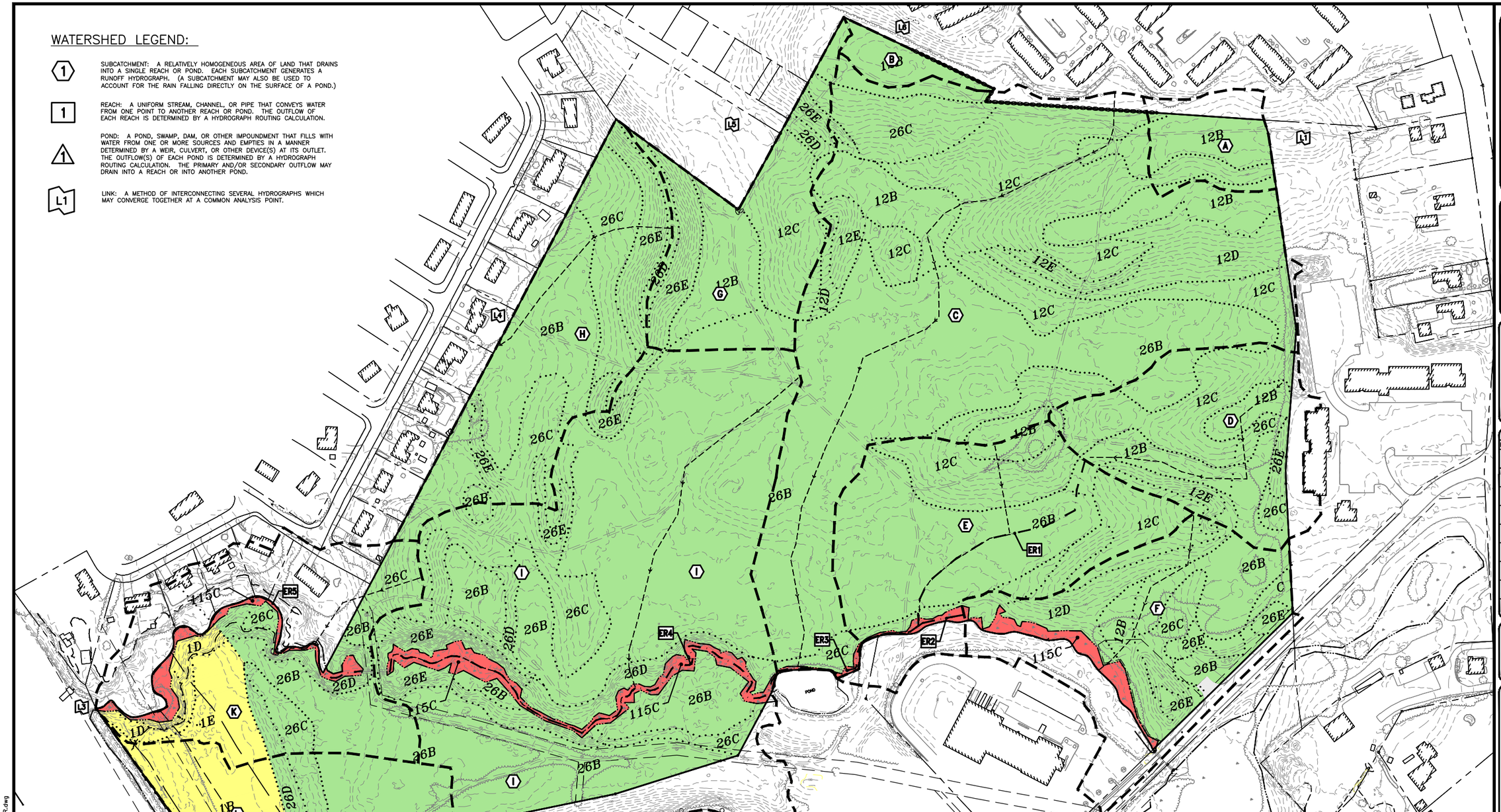

SSSS COLOR CODING LEGEND

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- IMPERVIOUS SURFACES
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1. SITE SPECIFIC SOIL MAPPING WAS PERFORMED TO THE STANDARDS OF SITE SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERMONT. SSSNNE SPECIAL PUBLICATION NO. 3, VERSION 5, FEBRUARY 2017.

SOIL LEGEND

12B SOIL TYPE DESIGNATION

. . . SOIL BOUNDARY

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12	HINCKLEY	EXCESSIVELY WELL DRAINED	A
26	WINDSOR	EXCESSIVELY WELL DRAINED	A
115	SCARBORO	VERY POORLY DRAINED	D

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KARL R. DUBAY
No. 9006
LICENSED PROFESSIONAL ENGINEER

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TAX MAP 209
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HUDSON, NH

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GFI PARTNERS

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N. HAMPTON, NH 03862

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PRE DEVELOPMENT SITE SPECIFIC SOIL MAPPING PLAN

PROJECT #475 SHEET 1 of 2

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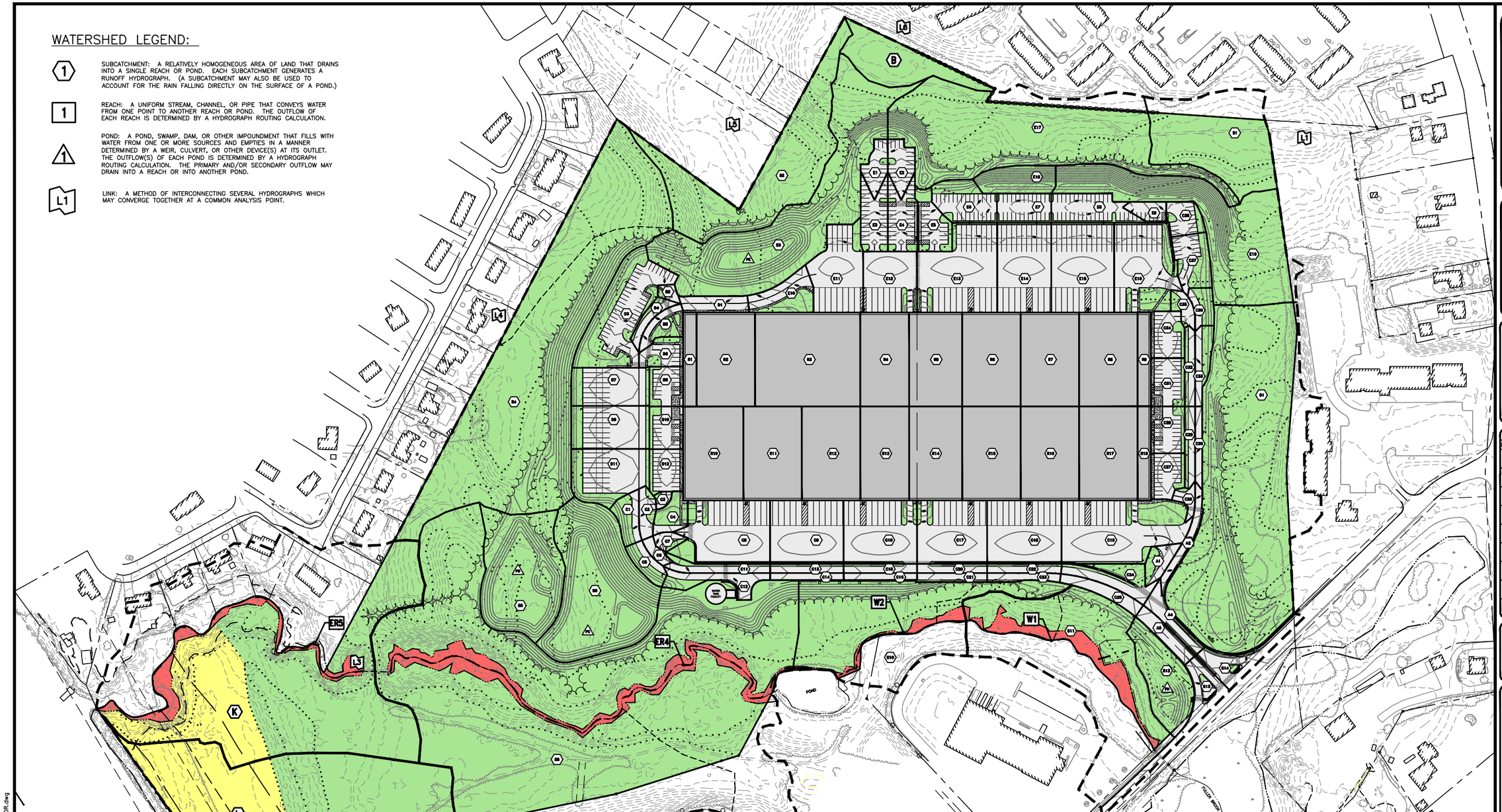

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SHEET TITLE:
POST DEVELOPMENT SITE SPECIFIC SOIL MAPPING PLAN

PROJECT #475 SHEET 2 of 2

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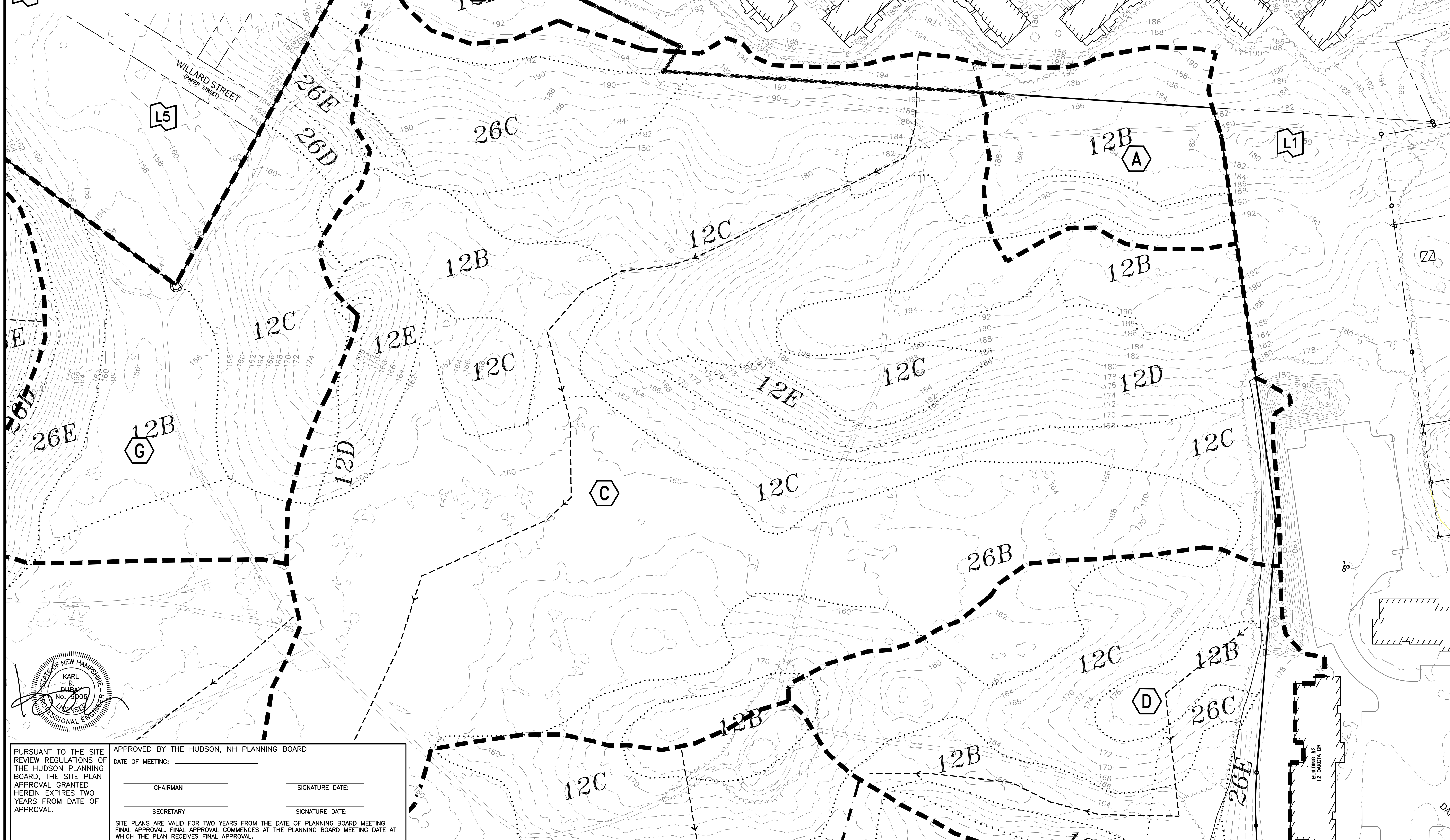

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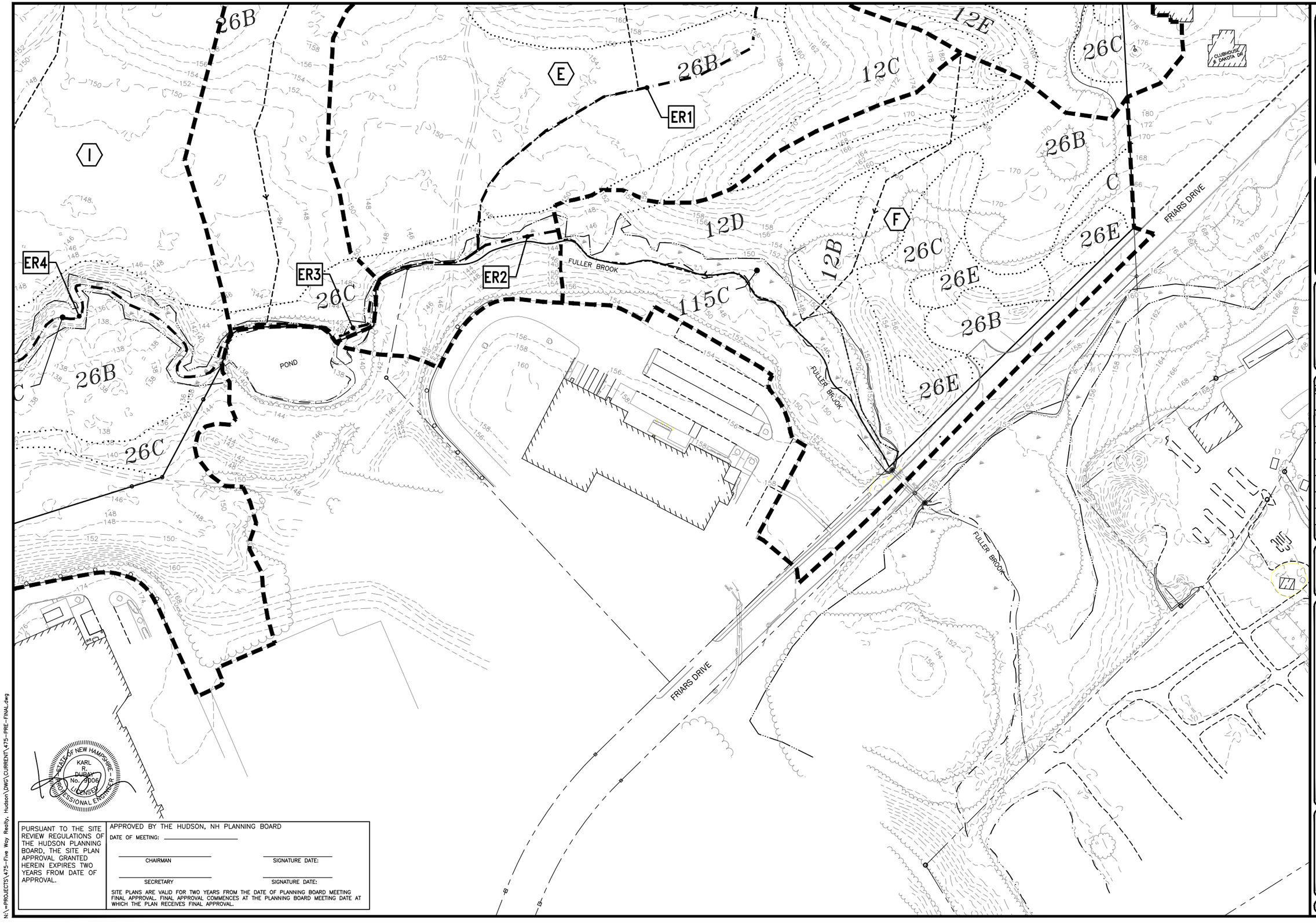
SHEET TITLE:

PRE-DEVELOPMENT WATERHSED PLAN - A

PROJECT #475 SHEET 1 of 4



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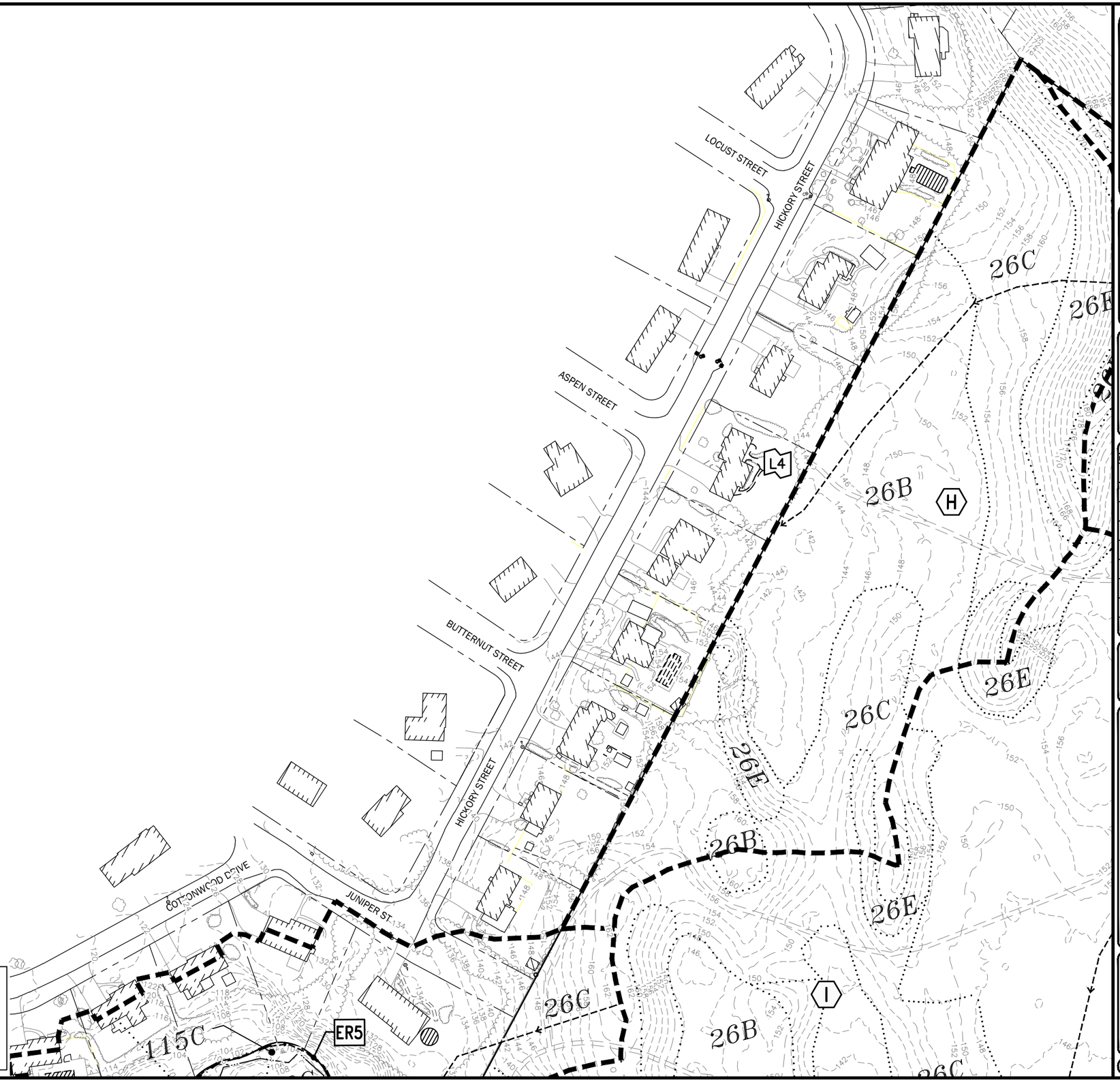

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PRE-DEVELOPMENT WATERHSED PLAN - C

PROJECT #475 SHEET 3 of 4

STATE OF NEW HAMPSHIRE
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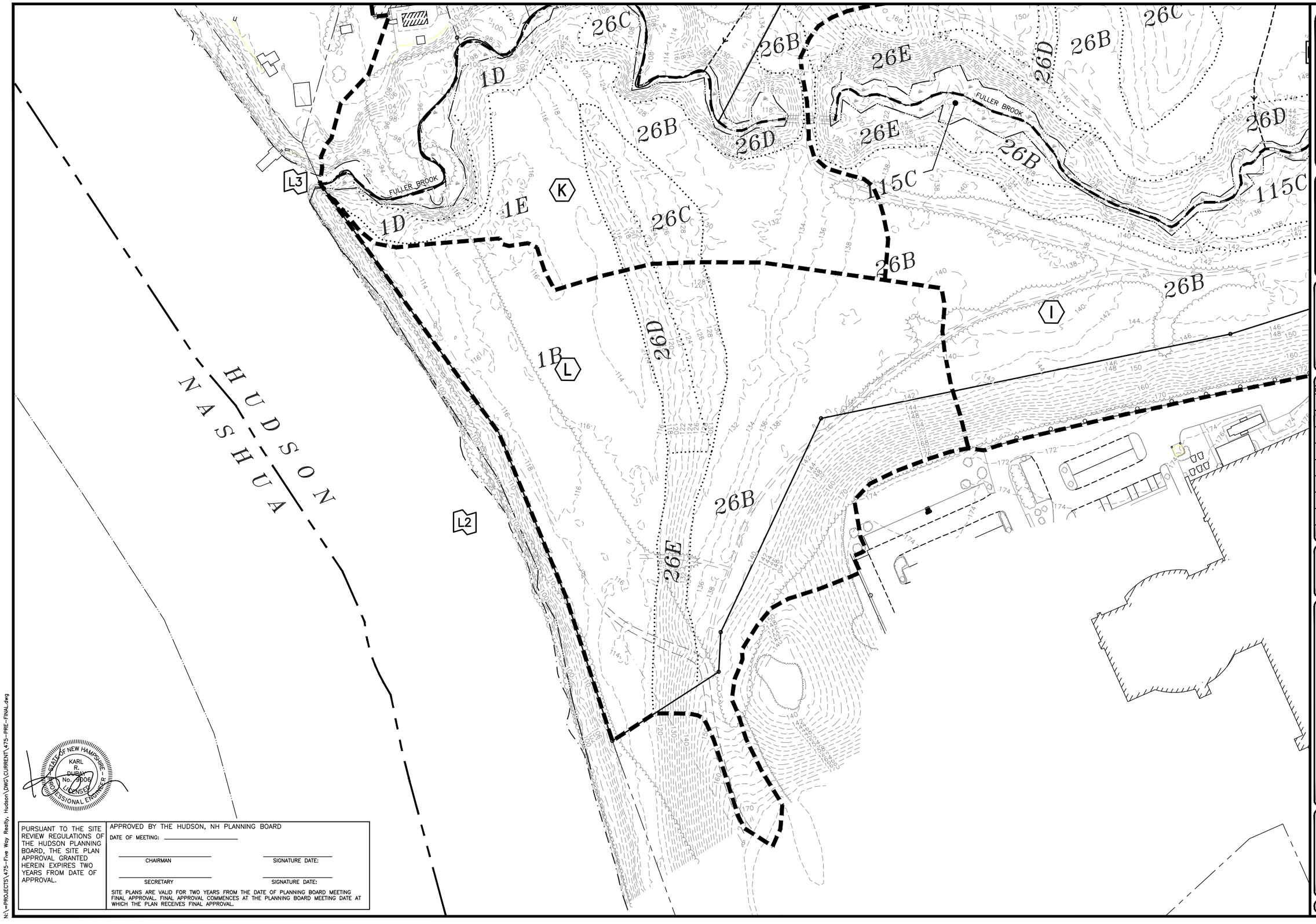

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PROJECT #475 SHEET 4 of 4

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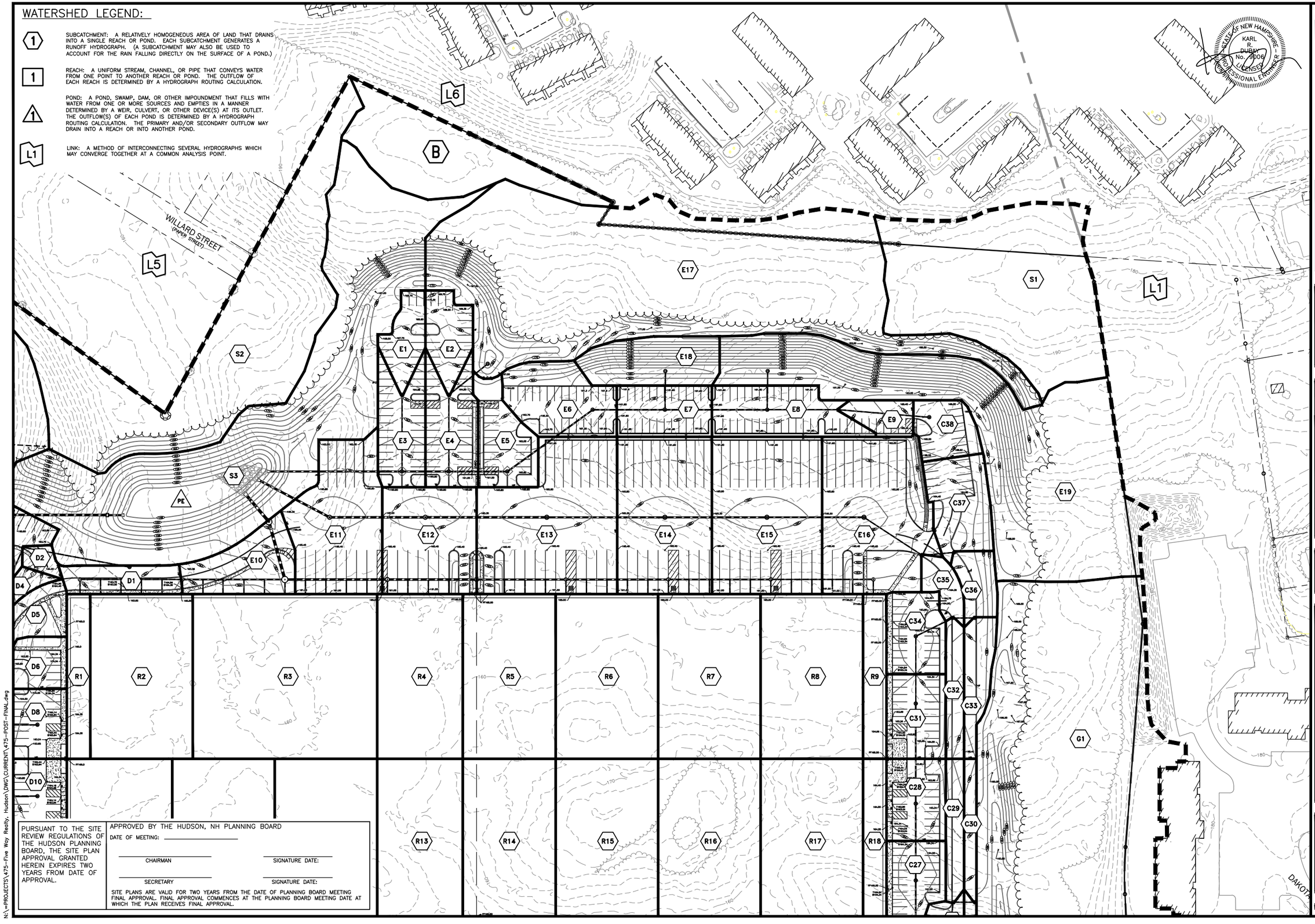

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SHEET INDEX

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DRAWN BY: SJK
CHECKED BY: KRD
DATE: AUG. 3, 2021
SCALE: 1" = 60'
FILE: 475-POST-FINAL
DEED REF:

PROJECT:
SITE PLAN
FRIARS DRIVE
TAX MAP 209
LOT 001-000
161 LOWELL ROAD
HUDSON, NH

PREPARED FOR
GFI PARTNERS

LOWELL ROAD PROPERTY OWNER, LLC
133 PEARL STREET #300
BOSTON, MA 02110

OWNER
5 WAY REALTY TRUST
PETER HORNE, TRUSTEE
PO BOX 1435
N. HAMPTON, NH 03862

SHEET TITLE:
POST-DEVELOPMENT WATERHSED PLAN - A

PROJECT #475 SHEET 1 of 4

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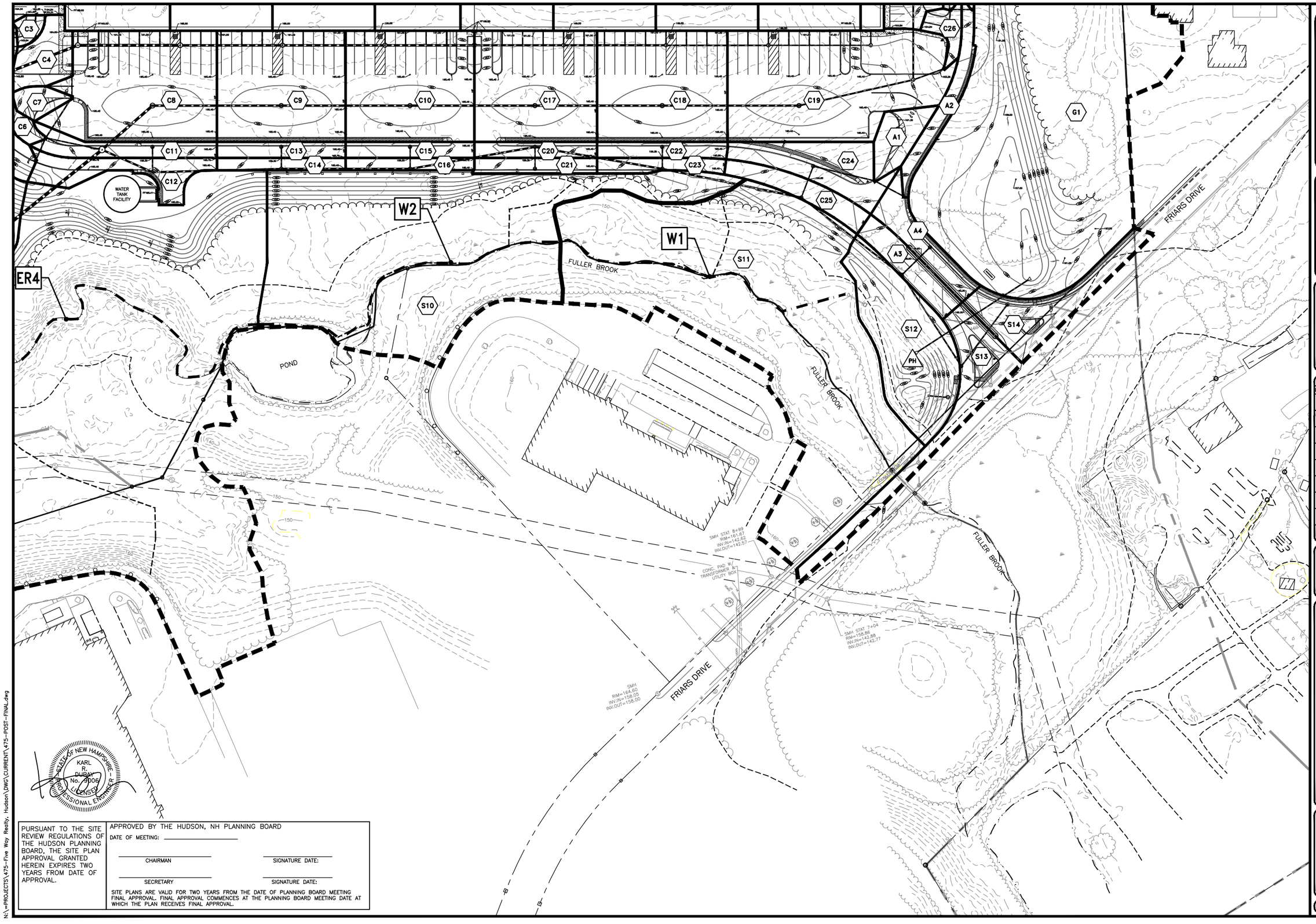

STATE OF NEW HAMPSHIRE
KARL R. DUBAY
No. 9006
LICENSED PROFESSIONAL ENGINEER

PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES TWO YEARS FROM DATE OF APPROVAL.	APPROVED BY THE HUDSON, NH PLANNING BOARD DATE OF MEETING: _____ _____ CHAIRMAN _____ SIGNATURE DATE: _____ SECRETARY _____ SIGNATURE DATE: SITE PLANS ARE VALID FOR TWO YEARS FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

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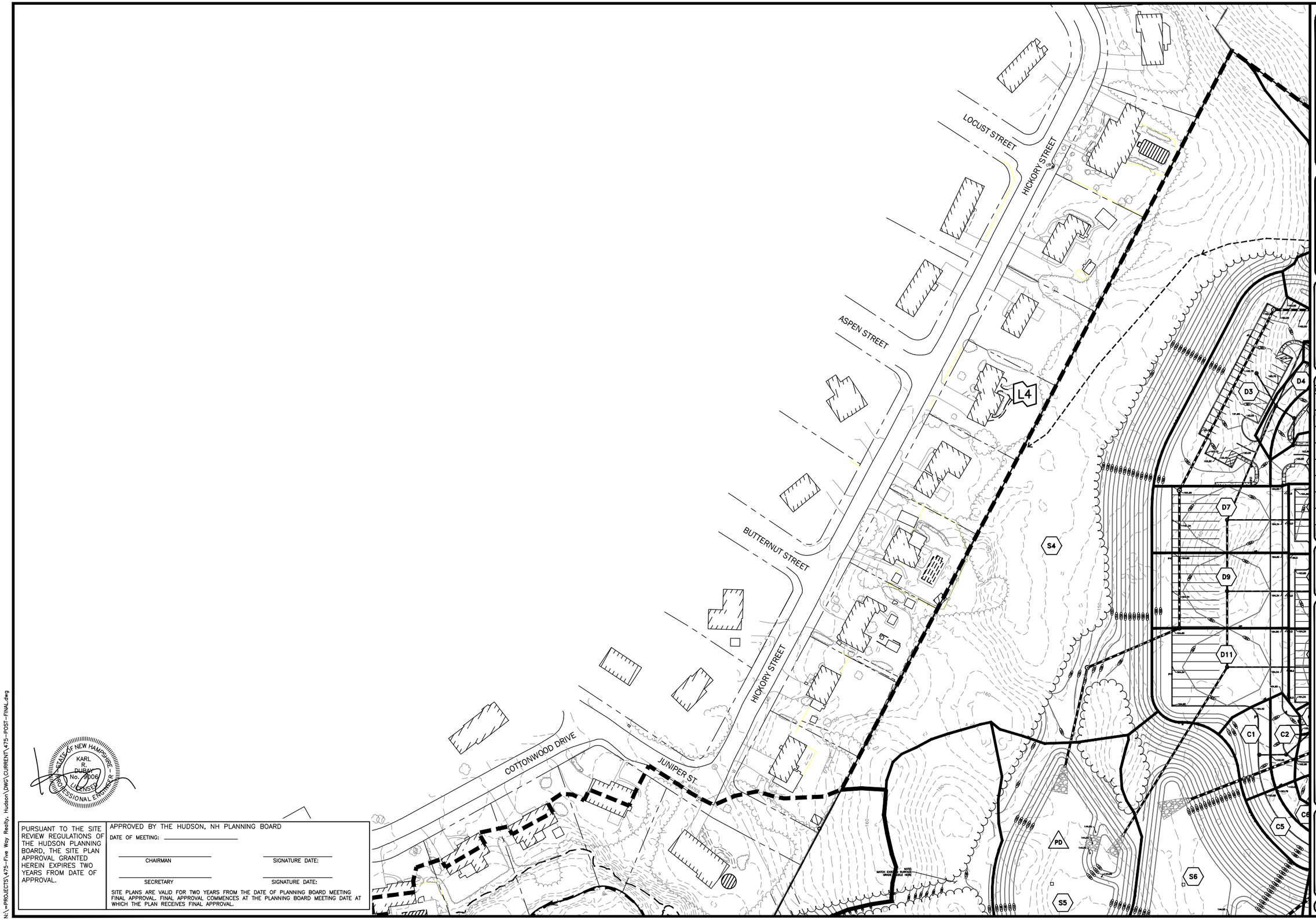

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SHEET TITLE:
POST-DEVELOPMENT WATERHSED PLAN - C

PROJECT #475 SHEET 3 of 4

STATE OF NEW HAMPSHIRE
KARL R. DUBAY
No. 9006
LICENSED PROFESSIONAL ENGINEER

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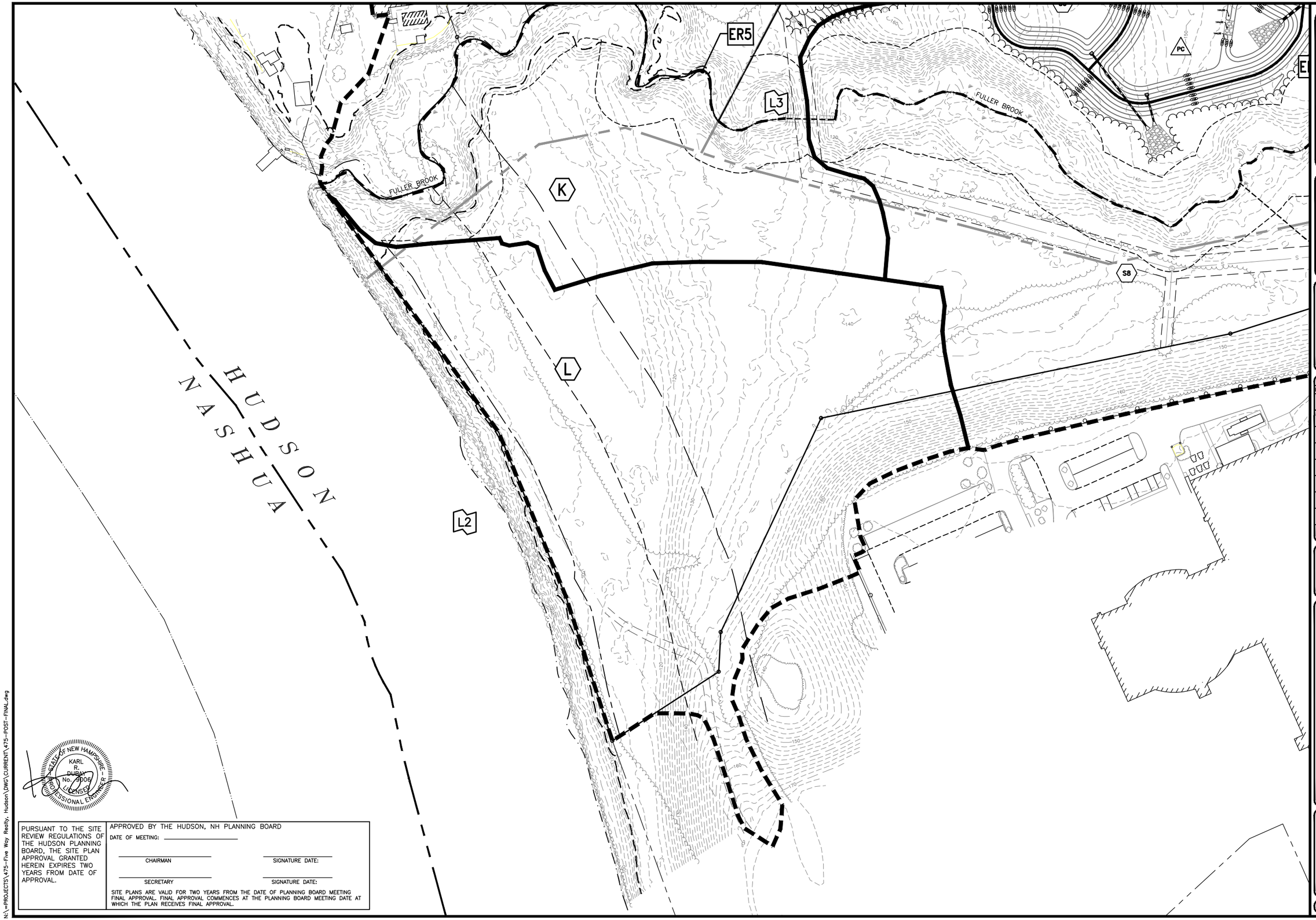

KARL R. DUBAY No. 9006 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

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