Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

Drainage Analysis Report

Applicant:
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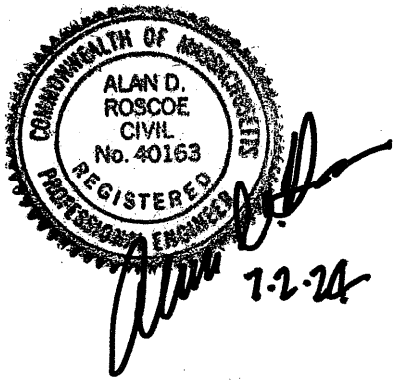
Groton, MA 01450

Project Location:
Monarch Path Subdivision (Amendment)
Groton, MA



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NARRATIVE SUMMARY

The Proposed Condition Drainage Analysis performed as part of this Amendment to the Monarch Path Subdivision was intended to determine if the detention basin and related sitework was required in order to provide a zero-net increase in peak flows of runoff from the western end of the subdivision.

TFMoran, Inc. used prior studies as comparison and our analysis considered the following:

- To provide a consistent comparison with prior approved design; the same storm frequencies and rainfall intensities were used in this re-analysis.
- As-Built Survey Data, Watershed boundaries and soils data were also re-used from the original analysis. Three basic watershed areas encompass the analysis at this subdivision. Design Point "A" at the east end; Point "10P" in the central region; and Point "C" at the west end of the cul de sac.

Findings:

The constructed stormwater management facilities in the eastern end of the subdivision function adequately in the constructed condition and provide a zero-net increase in flows of runoff.

The same can be achieved in the Central Area (Design Point "10P") with the constructed conditions, except that the vertical slot weir shall be narrowed to provide a 2-in. wide slot by adding a plate to the outlet control device.

Omitting the detention basin on the eastern end will not adversely affect the intended provision of a zero-net increase for the western watershed (Design Point "C"). The drainage basin and swale system constructed on Lot 7 (Now Map 253, Lot 30) is sufficient (with the addition of an additional drywell) to capture, delay and convey flows of runoff such that a zero-net increase is provided without construction of the detention basin shown on the end of the cul de sac on the Approved Subdivision Plans (now Map 253, Lot 31).

Design Considerations

This analysis and design uses typical rainfall depths over a wide range of storm conditions to be consistent with data used in the original Approved design from 2007; and with State and Local Stormwater Management requirements.

For the purpose of this report, the following design conditions are used (TR-55 methodology – Type III storm distribution):

Design Storm	Rainfall Depth
2-yr.	3.10 inches
10-yr.	4.50 inches
25-yr.	5.30 inches
50-yr.	5.90 inches
100-yr.	6.50 inches

The proposed stormwater management system is designed to:

- Provide for groundwater recharge per prior approvals,
- Capture and treat the water quality volume specified in the standards,
- Provide protection of existing wetland areas and buffers
- Provide for Zero-Net Increase in peak flows of runoff for the areas of interest.

Design Goals

The design goals for the stormwater management system proposed for this project include the following:

- Enhance treatment of stormwater runoff in compliance with Stormwater Management regulations
- Promote groundwater recharge and as a result - reduce stormwater flows from the development site.

In the HydroCAD Modeling Results in the following pages, the design data is presented in summary for the 2-yr., 10-yr., 25-yr., and 100-yr. storms, and with detail for each Subcatchment with routings and pond design data for the 10-yr. storm. The Pre-Development Condition is copied from the Original analysis reviewed and approved as part of the 2007 submittal.

The Post-Development condition is presented in a similar fashion to the foregoing, with the exception that the unconstructed stormwater facilities (detention basin and swale work) at the end of the cul de sac on Lot 6 (now referred to as Map 253, Lot 31) are removed from the storm routing.

Stormwater Design Summary

The Stormwater Management Facilities in place within the Monarch Path Subdivision now constructed meet the design tests, with one exception; at Design Point “10P” in the central portion of the Project, the vertical weir of the Outlet Control Structure must be retrofit with a plate on the weir to reduce the overall width from 4-in. to 2-in. to adequately control outfall rates based on the constructed stage-storage information from our As-Built Survey. With this remedy, and without Detention Basin 5 the design goals are met for this Project.

Stormwater Summary – (Design Point "A")

Total Site		
Design Storm	*Pre-Development* *Flow (cfs)*	*Post-Development* *Flow (cfs)*
2-Yr.	0.32	0.32
10-Yr.	1.94	1.43
100-Yr.	5.79	4.59

Stormwater Summary – (Design Point "10P")

Total Site		
Design Storm	*Pre-Development* *Flow (cfs)*	*Post-Development* *Flow (cfs)*
2-Yr.	3.38	3.23
10-Yr.	12.12	11.92
100-Yr.	29.01	28.26

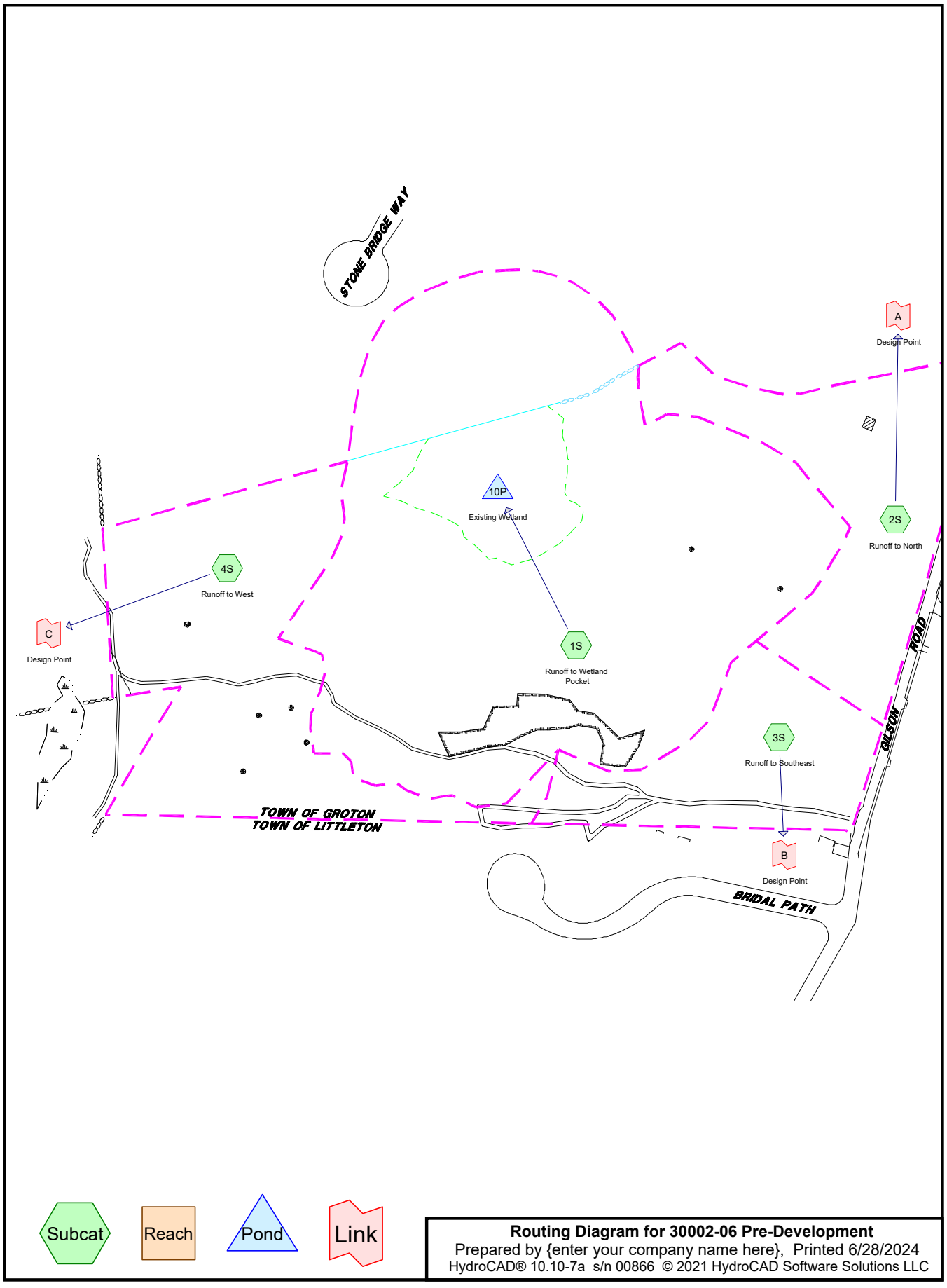
Stormwater Summary – (Design Point "C")

Total Site		
Design Storm	*Pre-Development* *Flow (cfs)*	*Post-Development* *Flow (cfs)*
2-Yr.	0.88	0.93*
10-Yr.	3.59	3.15
100-Yr.	9.11	8.88

*Add a Drywell to Detention Basin #4 to remove at least 0.05 cfs

Conclusion

Information in and referenced in this report indicates that the programmatic and structural BMPs document compliance with Massachusetts Stormwater Management guidelines. Additionally, all the design goals are met to reduce off-site flows of runoff at project completion.



Routing Diagram for 30002-06 Pre-Development

Prepared by {enter your company name here}, Printed 6/28/2024

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.013	85	Gravel roads, HSG B (2S)
0.554	98	Ledge Outcrops (1S, 4S)
0.035	98	Paved parking & roofs (2S)
0.812	98	Wetlands (1S)
0.155	98	Wetlands (Off-site) (1S)
24.540	55	Woods, Good, HSG B (1S, 2S, 3S, 4S)
2.670	55	Woods, Good, HSG B (Off-site) (1S)
3.496	70	Woods, Good, HSG C (1S, 3S, 4S)
0.480	70	Woods, Good, HSG C (Off-site) (1S)
0.945	77	Woods, Good, HSG D (4S)

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
27.223	HSG B	1S, 2S, 3S, 4S
3.975	HSG C	1S, 3S, 4S
0.945	HSG D	4S
1.556	Other	1S, 2S, 4S

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment1S: Runoff to Wetland Runoff Area=801,330 sf 8.22% Impervious Runoff Depth>0.35"
Flow Length=751' Tc=26.7 min CN=61 Runoff=3.38 cfs 0.531 af

Subcatchment2S: Runoff to North Runoff Area=223,505 sf 0.68% Impervious Runoff Depth>0.18"
Flow Length=750' Tc=28.1 min CN=55 Runoff=0.32 cfs 0.078 af

Subcatchment3S: Runoff to Southeast Runoff Area=146,535 sf 0.00% Impervious Runoff Depth>0.23"
Flow Length=450' Tc=23.7 min CN=57 Runoff=0.34 cfs 0.065 af

Subcatchment4S: Runoff to West Runoff Area=296,585 sf 0.14% Impervious Runoff Depth>0.29"
Flow Length=953' Tc=31.2 min CN=59 Runoff=0.88 cfs 0.162 af

Pond 10P: Existing Wetland Peak Elev=249.10' Storage=23,113 cf Inflow=3.38 cfs 0.531 af
Outflow=0.00 cfs 0.000 af

Link A: Design Point Inflow=0.32 cfs 0.078 af
Primary=0.32 cfs 0.078 af

Link B: Design Point Inflow=0.34 cfs 0.065 af
Primary=0.34 cfs 0.065 af

Link C: Design Point Inflow=0.88 cfs 0.162 af
Primary=0.88 cfs 0.162 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment1S: Runoff to Wetland Runoff Area=801,330 sf 8.22% Impervious Runoff Depth>1.40"
Flow Length=751' Tc=26.7 min CN=61 Runoff=18.41 cfs 2.139 af

Subcatchment2S: Runoff to North Runoff Area=223,505 sf 0.68% Impervious Runoff Depth>1.00"
Flow Length=750' Tc=28.1 min CN=55 Runoff=3.33 cfs 0.428 af

Subcatchment3S: Runoff to Southeast Runoff Area=146,535 sf 0.00% Impervious Runoff Depth>1.13"
Flow Length=450' Tc=23.7 min CN=57 Runoff=2.72 cfs 0.317 af

Subcatchment4S: Runoff to West Runoff Area=296,585 sf 0.14% Impervious Runoff Depth>1.26"
Flow Length=953' Tc=31.2 min CN=59 Runoff=5.63 cfs 0.713 af

Pond 10P: Existing Wetland Peak Elev=250.37' Storage=93,147 cf Inflow=18.41 cfs 2.139 af
Outflow=0.00 cfs 0.000 af

Link A: Design Point Inflow=3.33 cfs 0.428 af
Primary=3.33 cfs 0.428 af

Link B: Design Point Inflow=2.72 cfs 0.317 af
Primary=2.72 cfs 0.317 af

Link C: Design Point Inflow=5.63 cfs 0.713 af
Primary=5.63 cfs 0.713 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment1S: Runoff to Wetland Runoff Area=801,330 sf 8.22% Impervious Runoff Depth>1.75"
Flow Length=751' Tc=26.7 min CN=61 Runoff=23.57 cfs 2.686 af

Subcatchment2S: Runoff to North Runoff Area=223,505 sf 0.68% Impervious Runoff Depth>1.30"
Flow Length=750' Tc=28.1 min CN=55 Runoff=4.52 cfs 0.556 af

Subcatchment3S: Runoff to Southeast Runoff Area=146,535 sf 0.00% Impervious Runoff Depth>1.45"
Flow Length=450' Tc=23.7 min CN=57 Runoff=3.62 cfs 0.406 af

Subcatchment4S: Runoff to West Runoff Area=296,585 sf 0.14% Impervious Runoff Depth>1.59"
Flow Length=953' Tc=31.2 min CN=59 Runoff=7.32 cfs 0.904 af

Pond 10P: Existing Wetland Peak Elev=250.70' Storage=116,969 cf Inflow=23.57 cfs 2.686 af
Outflow=0.00 cfs 0.000 af

Link A: Design Point Inflow=4.52 cfs 0.556 af
Primary=4.52 cfs 0.556 af

Link B: Design Point Inflow=3.62 cfs 0.406 af
Primary=3.62 cfs 0.406 af

Link C: Design Point Inflow=7.32 cfs 0.904 af
Primary=7.32 cfs 0.904 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment1S: Runoff to Wetland Runoff Area=801,330 sf 8.22% Impervious Runoff Depth>2.13"
Flow Length=751' Tc=26.7 min CN=61 Runoff=29.01 cfs 3.266 af

Subcatchment2S: Runoff to North Runoff Area=223,505 sf 0.68% Impervious Runoff Depth>1.62"
Flow Length=750' Tc=28.1 min CN=55 Runoff=5.79 cfs 0.694 af

Subcatchment3S: Runoff to Southeast Runoff Area=146,535 sf 0.00% Impervious Runoff Depth>1.79"
Flow Length=450' Tc=23.7 min CN=57 Runoff=4.58 cfs 0.502 af

Subcatchment4S: Runoff to West Runoff Area=296,585 sf 0.14% Impervious Runoff Depth>1.95"
Flow Length=953' Tc=31.2 min CN=59 Runoff=9.11 cfs 1.109 af

Pond 10P: Existing Wetland Peak Elev=251.04' Storage=142,239 cf Inflow=29.01 cfs 3.266 af
Outflow=0.00 cfs 0.000 af

Link A: Design Point Inflow=5.79 cfs 0.694 af
Primary=5.79 cfs 0.694 af

Link B: Design Point Inflow=4.58 cfs 0.502 af
Primary=4.58 cfs 0.502 af

Link C: Design Point Inflow=9.11 cfs 1.109 af
Primary=9.11 cfs 1.109 af

Summary for Subcatchment 1S: Runoff to Wetland Pocket

Runoff = 12.12 cfs @ 12.43 hrs, Volume= 1.471 af, Depth> 0.96"
Routed to Pond 10P : Existing Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
	35,355	98	Wetlands
*	23,730	98	Ledge Outcrops
	118,335	70	Woods, Good, HSG C
	479,945	55	Woods, Good, HSG B
*	6,765	98	Wetlands (Off-site)
	20,895	70	Woods, Good, HSG C (Off-site)
	116,305	55	Woods, Good, HSG B (Off-site)
	801,330	61	Weighted Average
	735,480		91.78% Pervious Area
	65,850		8.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	100	0.0430	0.10		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
10.6	651	0.0419	1.02		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
26.7	751	Total			

Summary for Subcatchment 2S: Runoff to North

Runoff = 1.94 cfs @ 12.51 hrs, Volume= 0.276 af, Depth> 0.65"
Routed to Link A : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

Area (sf)	CN	Description
1,530	98	Paved parking & roofs
580	85	Gravel roads, HSG B
221,395	55	Woods, Good, HSG B
223,505	55	Weighted Average
221,975		99.32% Pervious Area
1,530		0.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	100	0.0400	0.10		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
11.6	650	0.0346	0.93		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
28.1	750	Total			

Summary for Subcatchment 3S: Runoff to Southeast

Runoff = 1.66 cfs @ 12.40 hrs, Volume= 0.209 af, Depth> 0.75"
Routed to Link B : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

Area (sf)	CN	Description
21,855	70	Woods, Good, HSG C
124,680	55	Woods, Good, HSG B
146,535	57	Weighted Average
146,535		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0380	0.10		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
6.8	350	0.0291	0.85		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
23.7	450	Total			

Summary for Subcatchment 4S: Runoff to West

Runoff = 3.59 cfs @ 12.51 hrs, Volume= 0.481 af, Depth> 0.85"
Routed to Link C : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

Area (sf)	CN	Description
410	98	Ledge Outcrops
41,150	77	Woods, Good, HSG D
12,080	70	Woods, Good, HSG C
242,945	55	Woods, Good, HSG B
296,585	59	Weighted Average
296,175		99.86% Pervious Area
410		0.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0380	0.10		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
14.3	853	0.0395	0.99		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
31.2	953	Total			

Summary for Pond 10P: Existing Wetland

Inflow Area = 18.396 ac, 8.22% Impervious, Inflow Depth > 0.96" for 10-year event
Inflow = 12.12 cfs @ 12.43 hrs, Volume= 1.471 af
Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 249.94' @ 20.00 hrs Surf.Area= 64,203 sf Storage= 64,079 cf

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	248.00'	219,438 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
248.00	9,835	415.0	0	0	9,835
250.00	66,705	1,150.0	68,102	68,102	101,384
252.00	85,000	1,500.0	151,336	219,438	175,240

Summary for Link A: Design Point

Inflow Area = 5.131 ac, 0.68% Impervious, Inflow Depth > 0.65" for 10-year event
Inflow = 1.94 cfs @ 12.51 hrs, Volume= 0.276 af
Primary = 1.94 cfs @ 12.51 hrs, Volume= 0.276 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Summary for Link B: Design Point

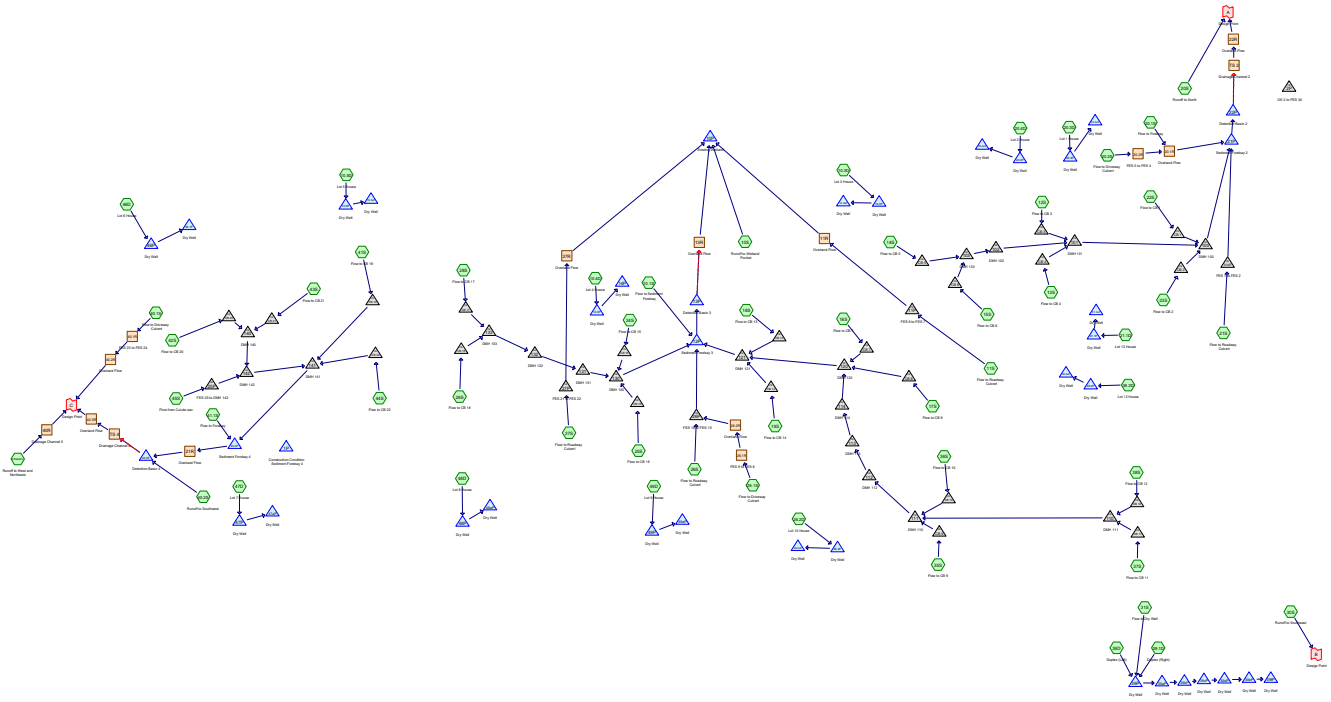
Inflow Area = 3.364 ac, 0.00% Impervious, Inflow Depth > 0.75" for 10-year event
Inflow = 1.66 cfs @ 12.40 hrs, Volume= 0.209 af
Primary = 1.66 cfs @ 12.40 hrs, Volume= 0.209 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Summary for Link C: Design Point

Inflow Area = 6.809 ac, 0.14% Impervious, Inflow Depth > 0.85" for 10-year event
Inflow = 3.59 cfs @ 12.51 hrs, Volume= 0.481 af
Primary = 3.59 cfs @ 12.51 hrs, Volume= 0.481 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs



Subcat Reach Pond Link

Routing Diagram for 30002-06 Post-Development 2024-06-25
Prepared by {enter your company name here}, Printed 6/28/2024
HydroCAD® 10.10-7a s/n 00866 © 2021 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
9.313	61	>75% Grass cover, Good, HSG B (10.1S, 10S, 11S, 20.1S, 20.2S, 20S, 21S, 26.1S, 26S, 27S, 30S, 31S, 40.1S, 40.2S, 40S&46S, 41.1S, 45S)
0.944	74	>75% Grass cover, Good, HSG C (26.1S, 26S, 27S, 40.2S)
0.385	80	>75% Grass cover, Good, HSG D (40S&46S)
0.950	98	Building (10.3D, 10.4D, 10.5D, 20.3D, 20.4D, 21.1D, 26.2D, 39.1D, 39.2D, 39D, 46D, 47D, 48D, 49D)
0.028	98	Deck (10.1S, 20.1S, 26.1S, 27S)
0.143	98	Decks (10S, 11S, 20S, 21S, 26S, 30S, 31S, 40.2S, 40S&46S)
0.524	61	Grass Strip, HSG B (12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 22S, 23S, 24S, 25S, 28S, 29S, 35S, 36S, 37S, 38S, 41S, 42S, 43S, 44S)
0.018	74	Grass Strip, HSG C (25S)
0.331	98	Ledge Outcrop (26.1S, 26S)
0.006	98	Ledge Outcrops (40S&46S)
1.010	98	Pavement (10.1S, 10S, 11S, 20.1S, 20.2S, 20S, 21S, 26.1S, 26S, 27S, 30S, 31S, 40.1S, 40.2S, 40S&46S, 41.1S, 43S)
1.160	98	Pavement & Curbing (12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 22S, 23S, 24S, 25S, 28S, 29S, 35S, 36S, 37S, 38S, 41S, 42S, 44S)
0.000	98	Retaining Wall (10S)
0.229	98	Sidewalk (12S, 14S, 16S, 18S, 22S, 24S, 28S, 35S, 37S, 41S, 42S, 44S)
0.123	98	Unconnected pavement, HSG A (40S&46S)
0.812	98	Wetlands (10S)
0.155	98	Wetlands (Off-site) (10S)
11.782	55	Woods, Good, HSG B (10.1S, 10S, 11S, 20.1S, 20S, 21S, 26.1S, 26S, 27S, 30S, 40.1S, 40.2S, 40S&46S, 41.1S)
2.670	55	Woods, Good, HSG B (Off-site) (10S)
2.444	70	Woods, Good, HSG C (10S, 26.1S, 26S, 27S, 30S, 40.2S)
0.480	70	Woods, Good, HSG C (Off-site) (10S)
0.551	77	Woods, Good, HSG D (40S&46S)

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.123	HSG A	40S&46S
24.289	HSG B	10.1S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 20.1S, 20.2S, 20S, 21S, 22S, 23S, 24S, 25S, 26.1S, 26S, 27S, 28S, 29S, 30S, 31S, 35S, 36S, 37S, 38S, 40.1S, 40.2S, 40S&46S, 41.1S, 41S, 42S, 43S, 44S, 45S
3.886	HSG C	10S, 25S, 26.1S, 26S, 27S, 30S, 40.2S
0.936	HSG D	40S&46S
4.825	Other	10.1S, 10.3D, 10.4D, 10.5D, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 20.1S, 20.2S, 20.3D, 20.4D, 20S, 21.1D, 21S, 22S, 23S, 24S, 25S, 26.1S, 26.2D, 26S, 27S, 28S, 29S, 30S, 31S, 35S, 36S, 37S, 38S, 39.1D, 39.2D, 39D, 40.1S, 40.2S, 40S&46S, 41.1S, 41S, 42S, 43S, 44S, 46D, 47D, 48D, 49D

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 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

Subcatchment10.1S: Flow to Sediment Runoff Area=22,335 sf 5.04% Impervious Runoff Depth>0.42"
Flow Length=160' Tc=9.5 min CN=63 Runoff=0.17 cfs 0.018 af

Subcatchment10.3D: Lot 3 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment10.4D: Lot 4 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment10.5D: Lot 5 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment10S: Runoff to Wetland Runoff Area=482,565 sf 10.24% Impervious Runoff Depth>0.38"
Flow Length=450' Tc=16.2 min CN=62 Runoff=2.71 cfs 0.352 af

Subcatchment11S: Flow to Roadway Runoff Area=63,620 sf 4.69% Impervious Runoff Depth>0.35"
Flow Length=173' Tc=10.6 min CN=61 Runoff=0.34 cfs 0.043 af

Subcatchment12S: Flow to CB 3 Runoff Area=965 sf 73.06% Impervious Runoff Depth>1.79"
Tc=5.0 min CN=88 Runoff=0.05 cfs 0.003 af

Subcatchment13S: Flow to CB 4 Runoff Area=755 sf 65.56% Impervious Runoff Depth>1.56"
Tc=5.0 min CN=85 Runoff=0.04 cfs 0.002 af

Subcatchment14S: Flow to CB 5 Runoff Area=7,795 sf 74.86% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.43 cfs 0.028 af

Subcatchment15S: Flow to CB 6 Runoff Area=5,835 sf 68.72% Impervious Runoff Depth>1.63"
Tc=5.0 min CN=86 Runoff=0.28 cfs 0.018 af

Subcatchment16S: Flow to CB 7 Runoff Area=3,100 sf 74.35% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.17 cfs 0.011 af

Subcatchment17S: Flow to CB 8 Runoff Area=2,335 sf 67.88% Impervious Runoff Depth>1.63"
Tc=5.0 min CN=86 Runoff=0.11 cfs 0.007 af

Subcatchment18S: Flow to CB 13 Runoff Area=3,730 sf 74.40% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.21 cfs 0.013 af

Subcatchment19S: Flow to CB 14 Runoff Area=2,995 sf 68.45% Impervious Runoff Depth>1.63"
Tc=5.0 min CN=86 Runoff=0.15 cfs 0.009 af

Subcatchment20.1S: Flow to Forebay Runoff Area=29,640 sf 10.39% Impervious Runoff Depth>0.49"
Flow Length=76' Tc=4.3 min CN=65 Runoff=0.36 cfs 0.028 af

Subcatchment20.2S: Flow to Driveway Runoff Area=3,170 sf 12.93% Impervious Runoff Depth>0.53"
Tc=5.0 min CN=66 Runoff=0.04 cfs 0.003 af

Subcatchment20.3D: Lot 1 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment20.4D: Lot 2 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment20S: Runoff to North Runoff Area=112,225 sf 4.32% Impervious Runoff Depth>0.26"
Flow Length=132' Tc=22.2 min CN=58 Runoff=0.32 cfs 0.056 af

Subcatchment21.1D: Lot 13 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment21S: Flow to Roadway Runoff Area=108,005 sf 5.97% Impervious Runoff Depth>0.32"
Flow Length=431' Tc=19.1 min CN=60 Runoff=0.44 cfs 0.066 af

Subcatchment22S: Flow to CB 1 Runoff Area=6,110 sf 75.94% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.34 cfs 0.022 af

Subcatchment23S: Flow to CB 2 Runoff Area=5,090 sf 72.50% Impervious Runoff Depth>1.79"
Tc=5.0 min CN=88 Runoff=0.27 cfs 0.017 af

Subcatchment24S: Flow to CB 15 Runoff Area=7,670 sf 74.71% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.42 cfs 0.027 af

Subcatchment25S: Flow to CB 16 Runoff Area=6,315 sf 67.70% Impervious Runoff Depth>1.79"
Tc=5.0 min CN=88 Runoff=0.34 cfs 0.022 af

Subcatchment26.1S: Flow to Driveway Runoff Area=19,145 sf 23.19% Impervious Runoff Depth>0.93"
Flow Length=324' Tc=14.8 min CN=75 Runoff=0.38 cfs 0.034 af

Subcatchment26.2D: Lot 10 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment26S: Flow to Roadway Runoff Area=71,930 sf 20.13% Impervious Runoff Depth>0.93"
Flow Length=460' Tc=13.5 min CN=75 Runoff=1.48 cfs 0.128 af

Subcatchment27S: Flow to Roadway Runoff Area=28,810 sf 8.14% Impervious Runoff Depth>0.42"
Flow Length=195' Tc=10.4 min CN=63 Runoff=0.21 cfs 0.023 af

Subcatchment28S: Flow to CB 17 Runoff Area=3,715 sf 74.43% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.21 cfs 0.013 af

Subcatchment29S: Flow to CB 18 Runoff Area=2,840 sf 68.49% Impervious Runoff Depth>1.63"
Tc=5.0 min CN=86 Runoff=0.14 cfs 0.009 af

Subcatchment30S: Runoff to Southeast Runoff Area=83,910 sf 5.73% Impervious Runoff Depth>0.38"
Flow Length=453' Tc=17.5 min CN=62 Runoff=0.46 cfs 0.061 af

Subcatchment31S: Flow to Dry Well Runoff Area=17,150 sf 16.44% Impervious Runoff Depth>0.57"
Tc=5.0 min CN=67 Runoff=0.25 cfs 0.019 af

Subcatchment35S: Flow to CB 9 Runoff Area=2,815 sf 73.89% Impervious Runoff Depth>1.79"
Tc=5.0 min CN=88 Runoff=0.15 cfs 0.010 af

Subcatchment36S: Flow to CB 10 Runoff Area=2,085 sf 68.35% Impervious Runoff Depth>1.63"
Tc=5.0 min CN=86 Runoff=0.10 cfs 0.007 af

Subcatchment37S: Flow to CB 11 Runoff Area=5,080 sf 78.84% Impervious Runoff Depth>1.95"
Tc=5.0 min CN=90 Runoff=0.29 cfs 0.019 af

Subcatchment38S: Flow to CB 12 Runoff Area=3,840 sf 70.83% Impervious Runoff Depth>1.71"
Tc=5.0 min CN=87 Runoff=0.20 cfs 0.013 af

Subcatchment39.1D: Duplex (Right) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment39.2D: Lot 12 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment39D: Duplex (Left) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment40.1S: Flow to Driveway Runoff Area=5,970 sf 4.02% Impervious Runoff Depth>0.38"
Tc=5.0 min CN=62 Runoff=0.05 cfs 0.004 af

Subcatchment40.2S: Runoff to Southwest Runoff Area=102,780 sf 3.53% Impervious Runoff Depth>0.38"
Flow Length=755' Tc=28.7 min CN=62 Runoff=0.48 cfs 0.074 af

Subcatchment40S&46S: Runoff to West Runoff Area=175,530 sf 4.25% Impervious Runoff Depth>0.41"
Flow Length=273' Tc=28.2 min UI Adjusted CN=63 Runoff=0.94 cfs 0.138 af

Subcatchment41.1S: Flow to Forebay Runoff Area=24,405 sf 6.70% Impervious Runoff Depth>0.38"
Flow Length=164' Tc=6.4 min CN=62 Runoff=0.18 cfs 0.018 af

Subcatchment41S: Flow to CB 19 Runoff Area=1,195 sf 75.73% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.07 cfs 0.004 af

Subcatchment42S: Flow to CB 20 Runoff Area=7,575 sf 75.58% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.42 cfs 0.027 af

Subcatchment43S: Flow to CB 21 Runoff Area=4,550 sf 75.49% Impervious Runoff Depth>1.87"
Tc=5.0 min CN=89 Runoff=0.25 cfs 0.016 af

Subcatchment44S: Flow to CB 22 Runoff Area=1,220 sf 71.72% Impervious Runoff Depth>1.79"
Tc=5.0 min CN=88 Runoff=0.06 cfs 0.004 af

Subcatchment45S: Flow from Cul-de-sac Runoff Area=3,420 sf 0.00% Impervious Runoff Depth>0.35"
Tc=5.0 min CN=61 Runoff=0.02 cfs 0.002 af

Subcatchment46D: Lot 6 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment47D: Lot 7 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment48D: Lot 8 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Subcatchment49D: Lot 9 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>2.73"
Tc=5.0 min CN=98 Runoff=0.21 cfs 0.015 af

Reach 11R: Overland Flow Avg. Flow Depth=0.05' Max Vel=1.26 fps Inflow=0.34 cfs 0.043 af
n=0.030 L=290.0' S=0.0418 '/' Capacity=107.72 cfs Outflow=0.33 cfs 0.042 af

Reach 13R: Overland Flow Avg. Flow Depth=0.20' Max Vel=2.88 fps Inflow=0.33 cfs 0.166 af
12.0" Round Pipe n=0.011 L=40.0' S=0.0075 '/' Capacity=3.65 cfs Outflow=0.33 cfs 0.166 af

Reach 20.1R: Overland Flow Avg. Flow Depth=0.19' Max Vel=0.76 fps Inflow=0.40 cfs 0.031 af
n=0.030 L=135.0' S=0.0030 '/' Capacity=9.60 cfs Outflow=0.36 cfs 0.031 af

Reach 20.2R: FES 5 to FES 4 Avg. Flow Depth=0.07' Max Vel=1.66 fps Inflow=0.04 cfs 0.003 af
12.0" Round Pipe n=0.011 L=44.0' S=0.0091 '/' Capacity=4.01 cfs Outflow=0.04 cfs 0.003 af

Reach 21R: Overland Flow Avg. Flow Depth=0.15' Max Vel=1.74 fps Inflow=1.46 cfs 0.056 af
n=0.030 L=170.0' S=0.0182 '/' Capacity=29.91 cfs Outflow=0.92 cfs 0.056 af

Reach 22R: Overland Flow Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.030 L=27.0' S=0.1481 '/' Capacity=47.08 cfs Outflow=0.00 cfs 0.000 af

Reach 26.1R: FES 9 to FES 8 Avg. Flow Depth=0.20' Max Vel=3.45 fps Inflow=0.38 cfs 0.034 af
12.0" Round Pipe n=0.011 L=45.0' S=0.0111 '/' Capacity=4.44 cfs Outflow=0.38 cfs 0.034 af

Reach 26.2R: Overland Flow Avg. Flow Depth=0.08' Max Vel=1.94 fps Inflow=0.38 cfs 0.034 af
n=0.030 L=370.0' S=0.0486 '/' Capacity=38.89 cfs Outflow=0.37 cfs 0.034 af

Reach 27R: Overland Flow Avg. Flow Depth=0.04' Max Vel=0.92 fps Inflow=0.21 cfs 0.023 af
n=0.030 L=250.0' S=0.0284 '/' Capacity=88.90 cfs Outflow=0.20 cfs 0.023 af

Reach 40.1R: FES 23 to FES 24 Avg. Flow Depth=0.07' Max Vel=1.88 fps Inflow=0.05 cfs 0.004 af
12.0" Round Pipe n=0.011 L=43.0' S=0.0116 '/' Capacity=4.54 cfs Outflow=0.05 cfs 0.004 af

Reach 40.2R: Overland Flow Avg. Flow Depth=0.02' Max Vel=0.80 fps Inflow=0.05 cfs 0.004 af
n=0.030 L=280.0' S=0.0429 '/' Capacity=36.50 cfs Outflow=0.04 cfs 0.004 af

Reach 40.3R: Overland Flow Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.030 L=25.0' S=0.0400 '/' Capacity=321.00 cfs Outflow=0.00 cfs 0.000 af

Reach 40R: Drainage Channel 5 Avg. Flow Depth=0.10' Max Vel=0.85 fps Inflow=0.94 cfs 0.138 af
n=0.030 L=300.0' S=0.0063 '/' Capacity=44.03 cfs Outflow=0.91 cfs 0.137 af

Reach TS 2: Drainage Channel 2 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.030 L=100.0' S=0.0390 '/' Capacity=43.75 cfs Outflow=0.00 cfs 0.000 af

Reach TS 4: Drainage Channel 4 Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.030 L=122.0' S=0.0328 '/' Capacity=94.12 cfs Outflow=0.00 cfs 0.000 af

Pond 1P: Construction Condition Sediment Forebay 4 Peak Elev=0.00' Storage=0 cf

Pond 2P: OS 2 to FES 30 Peak Elev=0.00'
12.0" Round Culvert n=0.011 L=21.0' S=0.0190 '/' Primary=0.00 cfs 0.000 af

Pond 10.3aP: Dry Well Peak Elev=1.96' Storage=57 cf Inflow=0.11 cfs 0.002 af
Outflow=0.02 cfs 0.002 af

Pond 10.3P: Dry Well Peak Elev=3.32' Storage=150 cf Inflow=0.21 cfs 0.015 af
Discarded=0.04 cfs 0.013 af Primary=0.11 cfs 0.002 af Outflow=0.16 cfs 0.015 af

Pond 10.4P: Dry Well Peak Elev=3.37' Storage=154 cf Inflow=0.21 cfs 0.015 af
Discarded=0.03 cfs 0.012 af Primary=0.16 cfs 0.003 af Outflow=0.19 cfs 0.015 af

Pond 10.5aP: Dry Well Peak Elev=3.56' Storage=171 cf Inflow=0.18 cfs 0.006 af
Outflow=0.01 cfs 0.005 af

Pond 10.5P: Dry Well Peak Elev=3.56' Storage=171 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.008 af Primary=0.18 cfs 0.006 af Outflow=0.19 cfs 0.014 af

Pond 10P: Existing Wetland Peak Elev=249.16' Storage=25,381 cf Inflow=3.23 cfs 0.583 af
Outflow=0.00 cfs 0.000 af

Pond 11P: FES 6 to FES 7 Peak Elev=264.19' Inflow=0.34 cfs 0.043 af
12.0" Round Culvert n=0.011 L=130.0' S=0.0069 '/' Outflow=0.34 cfs 0.043 af

Pond 12P: Sediment Forebay 3 Peak Elev=258.59' Storage=821 cf Inflow=3.72 cfs 0.340 af
Outflow=3.72 cfs 0.321 af

Pond 13P: Detention Basin 3 Peak Elev=258.59' Storage=8,363 cf Inflow=3.72 cfs 0.321 af
Primary=0.33 cfs 0.166 af Secondary=0.00 cfs 0.000 af Outflow=0.33 cfs 0.166 af

Pond 14P: Dry Well Peak Elev=2.82' Storage=109 cf Inflow=0.16 cfs 0.003 af
Outflow=0.02 cfs 0.003 af

Pond 20.3aP: Dry Well Peak Elev=3.81' Storage=197 cf Inflow=0.20 cfs 0.007 af
Outflow=0.01 cfs 0.004 af

Pond 20.3P: Dry Well Peak Elev=3.81' Storage=197 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.006 af Primary=0.20 cfs 0.007 af Outflow=0.20 cfs 0.013 af

Pond 20.4aP: Dry Well Peak Elev=2.09' Storage=63 cf Inflow=0.12 cfs 0.002 af
Outflow=0.02 cfs 0.002 af

Pond 20.4P: Dry Well Peak Elev=3.33' Storage=150 cf Inflow=0.21 cfs 0.015 af
Discarded=0.04 cfs 0.013 af Primary=0.12 cfs 0.002 af Outflow=0.16 cfs 0.015 af

Pond 20P: FES 25 to DMH 142 Peak Elev=260.34' Inflow=0.02 cfs 0.002 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0106 '/' Outflow=0.02 cfs 0.002 af

Pond 21.1aP: Dry Well Peak Elev=3.29' Storage=147 cf Inflow=0.18 cfs 0.005 af
Outflow=0.02 cfs 0.005 af

Pond 21.1P: Dry Well Peak Elev=3.44' Storage=160 cf Inflow=0.21 cfs 0.015 af
Discarded=0.02 cfs 0.010 af Primary=0.18 cfs 0.005 af Outflow=0.20 cfs 0.015 af

Pond 21P: Sediment Forebay 2 Peak Elev=261.68' Storage=57 cf Inflow=1.75 cfs 0.187 af
Outflow=1.76 cfs 0.185 af

Pond 22P: Detention Basin 2 Peak Elev=261.50' Storage=4,291 cf Inflow=1.76 cfs 0.185 af
Discarded=0.17 cfs 0.107 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.17 cfs 0.107 af

Pond 26.2aP: Dry Well Peak Elev=3.73' Storage=189 cf Inflow=0.20 cfs 0.007 af
Outflow=0.01 cfs 0.005 af

Pond 26.2P: Dry Well Peak Elev=3.73' Storage=189 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.006 af Primary=0.20 cfs 0.007 af Outflow=0.21 cfs 0.013 af

Pond 26P: FES 18 to FES 19 Peak Elev=258.73' Inflow=1.82 cfs 0.162 af
18.0" Round Culvert n=0.011 L=110.0' S=0.0055 '/' Outflow=1.82 cfs 0.162 af

Pond 27P: FES 21 to FES 22 Peak Elev=260.20' Inflow=0.21 cfs 0.023 af
18.0" Round Culvert n=0.011 L=123.0' S=0.0163 '/' Outflow=0.21 cfs 0.023 af

Pond 31AP: FES 1 to FES 2 Peak Elev=262.29' Inflow=0.44 cfs 0.066 af
18.0" Round Culvert n=0.011 L=96.0' S=0.0104 '/' Outflow=0.44 cfs 0.066 af

Pond 39.2aP: Dry Well Peak Elev=3.67' Storage=182 cf Inflow=0.20 cfs 0.006 af
Outflow=0.01 cfs 0.005 af

Pond 39.2P: Dry Well Peak Elev=3.67' Storage=182 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.007 af Primary=0.20 cfs 0.006 af Outflow=0.20 cfs 0.013 af

Pond 39aP: Dry Well Peak Elev=3.57' Storage=173 cf Inflow=0.61 cfs 0.029 af
Discarded=0.02 cfs 0.010 af Primary=0.59 cfs 0.019 af Outflow=0.61 cfs 0.029 af

Pond 39bP: Dry Well Peak Elev=3.49' Storage=165 cf Inflow=0.59 cfs 0.019 af
Discarded=0.02 cfs 0.006 af Primary=0.47 cfs 0.013 af Outflow=0.49 cfs 0.019 af

Pond 39cP: Dry Well Peak Elev=3.39' Storage=155 cf Inflow=0.47 cfs 0.013 af
Discarded=0.02 cfs 0.005 af Primary=0.29 cfs 0.008 af Outflow=0.31 cfs 0.013 af

Pond 39dP: Dry Well Peak Elev=3.29' Storage=147 cf Inflow=0.29 cfs 0.008 af
Discarded=0.02 cfs 0.004 af Primary=0.15 cfs 0.003 af Outflow=0.17 cfs 0.008 af

Pond 39eP: Dry Well Peak Elev=2.93' Storage=117 cf Inflow=0.15 cfs 0.003 af
Discarded=0.02 cfs 0.003 af Primary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.003 af

Pond 39fP: Dry Well Peak Elev=0.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 39P: Dry Well Peak Elev=3.64' Storage=179 cf Inflow=0.67 cfs 0.049 af
Discarded=0.02 cfs 0.018 af Primary=0.61 cfs 0.029 af Outflow=0.63 cfs 0.047 af

Pond 40.2P: Sediment Forebay 4 Peak Elev=259.20' Storage=696 cf Inflow=0.97 cfs 0.072 af
Outflow=1.46 cfs 0.056 af

Pond 40.3P: Detention Basin 4 Peak Elev=253.62' Storage=2,846 cf Inflow=0.96 cfs 0.130 af
Discarded=0.13 cfs 0.078 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.13 cfs 0.078 af

Pond 46.1P: Dry Well Peak Elev=3.85' Storage=201 cf Inflow=0.20 cfs 0.007 af
Outflow=0.01 cfs 0.004 af

Pond 46P: Dry Well Peak Elev=3.85' Storage=201 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.005 af Primary=0.20 cfs 0.007 af Outflow=0.20 cfs 0.012 af

Pond 47aP: Dry Well Peak Elev=3.85' Storage=201 cf Inflow=0.20 cfs 0.007 af
Outflow=0.01 cfs 0.004 af

Pond 47P: Dry Well Peak Elev=3.85' Storage=201 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.005 af Primary=0.20 cfs 0.007 af Outflow=0.21 cfs 0.012 af

Pond 48aP: Dry Well Peak Elev=3.47' Storage=163 cf Inflow=0.19 cfs 0.005 af
Outflow=0.01 cfs 0.005 af

Pond 48P: Dry Well Peak Elev=3.47' Storage=163 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.009 af Primary=0.19 cfs 0.005 af Outflow=0.20 cfs 0.014 af

Pond 49aP: Dry Well Peak Elev=3.47' Storage=163 cf Inflow=0.19 cfs 0.005 af
Outflow=0.01 cfs 0.005 af

Pond 49P: Dry Well Peak Elev=3.47' Storage=163 cf Inflow=0.21 cfs 0.015 af
Discarded=0.01 cfs 0.009 af Primary=0.19 cfs 0.005 af Outflow=0.20 cfs 0.014 af

Pond 100: DMH 100 Peak Elev=262.03' Inflow=1.41 cfs 0.091 af
15.0" Round Culvert n=0.011 L=85.0' S=0.0046 '/' Outflow=1.41 cfs 0.091 af

Pond 101: DMH 101 Peak Elev=263.11' Inflow=0.80 cfs 0.052 af
12.0" Round Culvert n=0.011 L=189.0' S=0.0056 '/' Outflow=0.80 cfs 0.052 af

Pond 102: DMH 102 Peak Elev=263.69' Inflow=0.72 cfs 0.046 af
12.0" Round Culvert n=0.011 L=97.0' S=0.0052 '/' Outflow=0.72 cfs 0.046 af

Pond 103: DMH 103 Peak Elev=264.20' Inflow=0.72 cfs 0.046 af
12.0" Round Culvert n=0.011 L=79.0' S=0.0052 '/' Outflow=0.72 cfs 0.046 af

Pond 110: DMH 111 Peak Elev=271.70' Inflow=0.49 cfs 0.032 af
12.0" Round Culvert n=0.011 L=99.0' S=0.0101 '/' Outflow=0.49 cfs 0.032 af

Pond 111: DMH 110 Peak Elev=270.69' Inflow=0.74 cfs 0.048 af
12.0" Round Culvert n=0.011 L=56.0' S=0.0098 '/' Outflow=0.74 cfs 0.048 af

Pond 112: DMH 112 Peak Elev=270.04' Inflow=0.74 cfs 0.048 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=0.74 cfs 0.048 af

Pond 113: DMH 113 Peak Elev=269.34' Inflow=0.74 cfs 0.048 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=0.74 cfs 0.048 af

Pond 114: DMH 114 Peak Elev=268.64' Inflow=0.74 cfs 0.048 af
12.0" Round Culvert n=0.011 L=94.0' S=0.0106 '/' Outflow=0.74 cfs 0.048 af

Pond 120: DMH 120 Peak Elev=267.43' Inflow=1.02 cfs 0.066 af
15.0" Round Culvert n=0.011 L=200.0' S=0.0275 '/' Outflow=1.02 cfs 0.066 af

Pond 121: DMH 121 Peak Elev=261.76' Inflow=1.38 cfs 0.089 af
15.0" Round Culvert n=0.011 L=108.0' S=0.0296 '/' Outflow=1.38 cfs 0.089 af

Pond 130: DMH 130 Peak Elev=258.59' Inflow=1.10 cfs 0.071 af
15.0" Round Culvert n=0.011 L=79.0' S=0.0063 '/' Outflow=1.10 cfs 0.071 af

Pond 131: DMH 131 Peak Elev=258.84' Inflow=0.34 cfs 0.022 af
12.0" Round Culvert n=0.011 L=38.0' S=0.0139 '/' Outflow=0.34 cfs 0.022 af

Pond 132: DMH 132 Peak Elev=260.01' Inflow=0.34 cfs 0.022 af
12.0" Round Culvert n=0.011 L=74.0' S=0.0147 '/' Outflow=0.34 cfs 0.022 af

Pond 133: DMH 133 Peak Elev=261.09' Inflow=0.34 cfs 0.022 af
12.0" Round Culvert n=0.011 L=93.0' S=0.0105 '/' Outflow=0.34 cfs 0.022 af

Pond 140: DMH 140 Peak Elev=260.13' Inflow=0.67 cfs 0.043 af
12.0" Round Culvert n=0.011 L=26.0' S=0.0058 '/' Outflow=0.67 cfs 0.043 af

Pond 141: DMH 141 Peak Elev=259.53' Inflow=0.82 cfs 0.054 af
12.0" Round Culvert n=0.011 L=49.0' S=0.0061 '/' Outflow=0.82 cfs 0.054 af

Pond 142: DMH 142 Peak Elev=259.88' Inflow=0.69 cfs 0.046 af
12.0" Round Culvert n=0.011 L=54.0' S=0.0056 '/' Outflow=0.69 cfs 0.046 af

Pond CB 1: Peak Elev=262.15' Inflow=0.34 cfs 0.022 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0082 '/' Outflow=0.34 cfs 0.022 af

Pond CB 10: Peak Elev=270.70' Inflow=0.10 cfs 0.007 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0100 '/' Outflow=0.10 cfs 0.007 af

Pond CB 11: Peak Elev=271.91' Inflow=0.29 cfs 0.019 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0100 '/' Outflow=0.29 cfs 0.019 af

Pond CB 12: Peak Elev=271.86' Inflow=0.20 cfs 0.013 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0131 '/' Outflow=0.20 cfs 0.013 af

Pond CB 13: Peak Elev=261.86' Inflow=0.21 cfs 0.013 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.21 cfs 0.013 af

Pond CB 14: Peak Elev=261.83' Inflow=0.15 cfs 0.009 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.15 cfs 0.009 af

Pond CB 15: Peak Elev=258.63' Inflow=0.42 cfs 0.027 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0155 '/' Outflow=0.42 cfs 0.027 af

Pond CB 16: Peak Elev=258.60' Inflow=0.34 cfs 0.022 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0533 '/' Outflow=0.34 cfs 0.022 af

Pond CB 17: Peak Elev=261.38' Inflow=0.21 cfs 0.013 af
12.0" Round Culvert n=0.011 L=21.0' S=0.0124 '/' Outflow=0.21 cfs 0.013 af

Pond CB 18: Peak Elev=261.34' Inflow=0.14 cfs 0.009 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0153 '/' Outflow=0.14 cfs 0.009 af

Pond CB 19: Peak Elev=262.44' Inflow=0.07 cfs 0.004 af
12.0" Round Culvert n=0.011 L=40.0' S=0.0087 '/' Outflow=0.07 cfs 0.004 af

Pond CB 2: Peak Elev=262.12' Inflow=0.27 cfs 0.017 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0108 '/' Outflow=0.27 cfs 0.017 af

Pond CB 20: Peak Elev=260.27' Inflow=0.42 cfs 0.027 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0061 '/' Outflow=0.42 cfs 0.027 af

Pond CB 21: Peak Elev=260.20' Inflow=0.25 cfs 0.016 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0100 '/' Outflow=0.25 cfs 0.016 af

Pond CB 22: Peak Elev=262.12' Inflow=0.06 cfs 0.004 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.06 cfs 0.004 af

Pond CB 3: Peak Elev=265.65' Inflow=0.05 cfs 0.003 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.05 cfs 0.003 af

Pond CB 4: Peak Elev=265.63' Inflow=0.04 cfs 0.002 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0122 '/' Outflow=0.04 cfs 0.002 af

Pond CB 5: Peak Elev=264.43' Inflow=0.43 cfs 0.028 af
12.0" Round Culvert n=0.011 L=19.0' S=0.0126 '/' Outflow=0.43 cfs 0.028 af

Pond CB 6: Peak Elev=264.37' Inflow=0.28 cfs 0.018 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0160 '/' Outflow=0.28 cfs 0.018 af

Pond CB 7: Peak Elev=267.54' Inflow=0.17 cfs 0.011 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0111 '/' Outflow=0.17 cfs 0.011 af

Pond CB 8: Peak Elev=267.54' Inflow=0.11 cfs 0.007 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0100 '/' Outflow=0.11 cfs 0.007 af

Pond CB 9: Peak Elev=270.73' Inflow=0.15 cfs 0.010 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0100 '/' Outflow=0.15 cfs 0.010 af

Link A: Design Point Inflow=0.32 cfs 0.056 af
Primary=0.32 cfs 0.056 af

Link B: Design Point Inflow=0.46 cfs 0.061 af
Primary=0.46 cfs 0.061 af

Link C: Design Point Inflow=0.93 cfs 0.141 af
Primary=0.93 cfs 0.141 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 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

Subcatchment10.1S: Flow to Sediment Runoff Area=22,335 sf 5.04% Impervious Runoff Depth>1.55"
Flow Length=160' Tc=9.5 min CN=63 Runoff=0.85 cfs 0.066 af

Subcatchment10.3D: Lot 3 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment10.4D: Lot 4 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment10.5D: Lot 5 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment10S: Runoff to Wetland Runoff Area=482,565 sf 10.24% Impervious Runoff Depth>1.47"
Flow Length=450' Tc=16.2 min CN=62 Runoff=14.39 cfs 1.359 af

Subcatchment11S: Flow to Roadway Runoff Area=63,620 sf 4.69% Impervious Runoff Depth>1.41"
Flow Length=173' Tc=10.6 min CN=61 Runoff=2.10 cfs 0.171 af

Subcatchment12S: Flow to CB 3 Runoff Area=965 sf 73.06% Impervious Runoff Depth>3.73"
Tc=5.0 min CN=88 Runoff=0.10 cfs 0.007 af

Subcatchment13S: Flow to CB 4 Runoff Area=755 sf 65.56% Impervious Runoff Depth>3.43"
Tc=5.0 min CN=85 Runoff=0.08 cfs 0.005 af

Subcatchment14S: Flow to CB 5 Runoff Area=7,795 sf 74.86% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.85 cfs 0.057 af

Subcatchment15S: Flow to CB 6 Runoff Area=5,835 sf 68.72% Impervious Runoff Depth>3.53"
Tc=5.0 min CN=86 Runoff=0.60 cfs 0.039 af

Subcatchment16S: Flow to CB 7 Runoff Area=3,100 sf 74.35% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.34 cfs 0.023 af

Subcatchment17S: Flow to CB 8 Runoff Area=2,335 sf 67.88% Impervious Runoff Depth>3.53"
Tc=5.0 min CN=86 Runoff=0.24 cfs 0.016 af

Subcatchment18S: Flow to CB 13 Runoff Area=3,730 sf 74.40% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.41 cfs 0.027 af

Subcatchment19S: Flow to CB 14 Runoff Area=2,995 sf 68.45% Impervious Runoff Depth>3.53"
Tc=5.0 min CN=86 Runoff=0.31 cfs 0.020 af

Subcatchment20.1S: Flow to Forebay Runoff Area=29,640 sf 10.39% Impervious Runoff Depth>1.70"
Flow Length=76' Tc=4.3 min CN=65 Runoff=1.51 cfs 0.096 af

Subcatchment20.2S: Flow to Driveway Runoff Area=3,170 sf 12.93% Impervious Runoff Depth>1.77"
Tc=5.0 min CN=66 Runoff=0.17 cfs 0.011 af

Subcatchment20.3D: Lot 1 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment20.4D: Lot 2 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment20S: Runoff to North Runoff Area=112,225 sf 4.32% Impervious Runoff Depth>1.20"
Flow Length=132' Tc=22.2 min CN=58 Runoff=2.30 cfs 0.257 af

Subcatchment21.1D: Lot 13 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment21S: Flow to Roadway Runoff Area=108,005 sf 5.97% Impervious Runoff Depth>1.33"
Flow Length=431' Tc=19.1 min CN=60 Runoff=2.68 cfs 0.275 af

Subcatchment22S: Flow to CB 1 Runoff Area=6,110 sf 75.94% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.67 cfs 0.045 af

Subcatchment23S: Flow to CB 2 Runoff Area=5,090 sf 72.50% Impervious Runoff Depth>3.73"
Tc=5.0 min CN=88 Runoff=0.55 cfs 0.036 af

Subcatchment24S: Flow to CB 15 Runoff Area=7,670 sf 74.71% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.84 cfs 0.056 af

Subcatchment25S: Flow to CB 16 Runoff Area=6,315 sf 67.70% Impervious Runoff Depth>3.73"
Tc=5.0 min CN=88 Runoff=0.68 cfs 0.045 af

Subcatchment26.1S: Flow to Driveway Runoff Area=19,145 sf 23.19% Impervious Runoff Depth>2.50"
Flow Length=324' Tc=14.8 min CN=75 Runoff=1.05 cfs 0.091 af

Subcatchment26.2D: Lot 10 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment26S: Flow to Roadway Runoff Area=71,930 sf 20.13% Impervious Runoff Depth>2.50"
Flow Length=460' Tc=13.5 min CN=75 Runoff=4.10 cfs 0.344 af

Subcatchment27S: Flow to Roadway Runoff Area=28,810 sf 8.14% Impervious Runoff Depth>1.55"
Flow Length=195' Tc=10.4 min CN=63 Runoff=1.07 cfs 0.085 af

Subcatchment28S: Flow to CB 17 Runoff Area=3,715 sf 74.43% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.41 cfs 0.027 af

Subcatchment29S: Flow to CB 18 Runoff Area=2,840 sf 68.49% Impervious Runoff Depth>3.53"
Tc=5.0 min CN=86 Runoff=0.29 cfs 0.019 af

Subcatchment30S: Runoff to Southeast Runoff Area=83,910 sf 5.73% Impervious Runoff Depth>1.47"
Flow Length=453' Tc=17.5 min CN=62 Runoff=2.43 cfs 0.236 af

Subcatchment31S: Flow to Dry Well Runoff Area=17,150 sf 16.44% Impervious Runoff Depth>1.85"
Tc=5.0 min CN=67 Runoff=0.94 cfs 0.061 af

Subcatchment35S: Flow to CB 9 Runoff Area=2,815 sf 73.89% Impervious Runoff Depth>3.73"
Tc=5.0 min CN=88 Runoff=0.30 cfs 0.020 af

Subcatchment36S: Flow to CB 10 Runoff Area=2,085 sf 68.35% Impervious Runoff Depth>3.53"
Tc=5.0 min CN=86 Runoff=0.21 cfs 0.014 af

Subcatchment37S: Flow to CB 11 Runoff Area=5,080 sf 78.84% Impervious Runoff Depth>3.94"
Tc=5.0 min CN=90 Runoff=0.57 cfs 0.038 af

Subcatchment38S: Flow to CB 12 Runoff Area=3,840 sf 70.83% Impervious Runoff Depth>3.63"
Tc=5.0 min CN=87 Runoff=0.40 cfs 0.027 af

Subcatchment39.1D: Duplex (Right) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment39.2D: Lot 12 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment39D: Duplex (Left) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment40.1S: Flow to Driveway Runoff Area=5,970 sf 4.02% Impervious Runoff Depth>1.48"
Tc=5.0 min CN=62 Runoff=0.25 cfs 0.017 af

Subcatchment40.2S: Runoff to Southwest Runoff Area=102,780 sf 3.53% Impervious Runoff Depth>1.46"
Flow Length=755' Tc=28.7 min CN=62 Runoff=2.42 cfs 0.288 af

Subcatchment40S&46S: Runoff to West Runoff Area=175,530 sf 4.25% Impervious Runoff Depth>1.54"
Flow Length=273' Tc=28.2 min UI Adjusted CN=63 Runoff=4.41 cfs 0.516 af

Subcatchment41.1S: Flow to Forebay Runoff Area=24,405 sf 6.70% Impervious Runoff Depth>1.48"
Flow Length=164' Tc=6.4 min CN=62 Runoff=0.99 cfs 0.069 af

Subcatchment41S: Flow to CB 19 Runoff Area=1,195 sf 75.73% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.13 cfs 0.009 af

Subcatchment42S: Flow to CB 20 Runoff Area=7,575 sf 75.58% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.83 cfs 0.056 af

Subcatchment43S: Flow to CB 21 Runoff Area=4,550 sf 75.49% Impervious Runoff Depth>3.84"
Tc=5.0 min CN=89 Runoff=0.50 cfs 0.033 af

Subcatchment44S: Flow to CB 22 Runoff Area=1,220 sf 71.72% Impervious Runoff Depth>3.73"
Tc=5.0 min CN=88 Runoff=0.13 cfs 0.009 af

Subcatchment45S: Flow from Cul-de-sac Runoff Area=3,420 sf 0.00% Impervious Runoff Depth>1.41"
Tc=5.0 min CN=61 Runoff=0.14 cfs 0.009 af

Subcatchment46D: Lot 6 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment47D: Lot 7 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment48D: Lot 8 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Subcatchment49D: Lot 9 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=98 Runoff=0.36 cfs 0.027 af

Reach 11R: Overland Flow Avg. Flow Depth=0.14' Max Vel=2.36 fps Inflow=2.10 cfs 0.171 af
n=0.030 L=290.0' S=0.0418 '/' Capacity=107.72 cfs Outflow=2.05 cfs 0.171 af

Reach 13R: Overland Flow Avg. Flow Depth=0.42' Max Vel=4.28 fps Inflow=1.33 cfs 0.592 af
12.0" Round Pipe n=0.011 L=40.0' S=0.0075 '/' Capacity=3.65 cfs Outflow=1.33 cfs 0.591 af

Reach 20.1R: Overland Flow Avg. Flow Depth=0.42' Max Vel=1.19 fps Inflow=1.68 cfs 0.107 af
n=0.030 L=135.0' S=0.0030 '/' Capacity=9.60 cfs Outflow=1.60 cfs 0.107 af

Reach 20.2R: FES 5 to FES 4 Avg. Flow Depth=0.14' Max Vel=2.52 fps Inflow=0.17 cfs 0.011 af
12.0" Round Pipe n=0.011 L=44.0' S=0.0091 '/' Capacity=4.01 cfs Outflow=0.17 cfs 0.011 af

Reach 21R: Overland Flow Avg. Flow Depth=0.28' Max Vel=2.47 fps Inflow=2.72 cfs 0.169 af
n=0.030 L=170.0' S=0.0182 '/' Capacity=29.91 cfs Outflow=2.63 cfs 0.168 af

Reach 22R: Overland Flow Avg. Flow Depth=0.19' Max Vel=3.92 fps Inflow=0.58 cfs 0.162 af
n=0.030 L=27.0' S=0.1481 '/' Capacity=47.08 cfs Outflow=0.58 cfs 0.162 af

Reach 26.1R: FES 9 to FES 8 Avg. Flow Depth=0.33' Max Vel=4.63 fps Inflow=1.05 cfs 0.091 af
12.0" Round Pipe n=0.011 L=45.0' S=0.0111 '/' Capacity=4.44 cfs Outflow=1.05 cfs 0.091 af

Reach 26.2R: Overland Flow Avg. Flow Depth=0.15' Max Vel=2.76 fps Inflow=1.05 cfs 0.091 af
n=0.030 L=370.0' S=0.0486 '/' Capacity=38.89 cfs Outflow=1.04 cfs 0.091 af

Reach 27R: Overland Flow Avg. Flow Depth=0.10' Max Vel=1.66 fps Inflow=1.07 cfs 0.085 af
n=0.030 L=250.0' S=0.0284 '/' Capacity=88.90 cfs Outflow=1.03 cfs 0.085 af

Reach 40.1R: FES 23 to FES 24 Avg. Flow Depth=0.16' Max Vel=3.11 fps Inflow=0.25 cfs 0.017 af
12.0" Round Pipe n=0.011 L=43.0' S=0.0116 '/' Capacity=4.54 cfs Outflow=0.25 cfs 0.017 af

Reach 40.2R: Overland Flow Avg. Flow Depth=0.07' Max Vel=1.59 fps Inflow=0.25 cfs 0.017 af
n=0.030 L=280.0' S=0.0429 '/' Capacity=36.50 cfs Outflow=0.24 cfs 0.017 af

Reach 40.3R: Overland Flow Avg. Flow Depth=0.10' Max Vel=2.09 fps Inflow=1.38 cfs 0.250 af
n=0.030 L=25.0' S=0.0400 '/' Capacity=321.00 cfs Outflow=1.38 cfs 0.250 af

Reach 40R: Drainage Channel 5 Avg. Flow Depth=0.26' Max Vel=1.54 fps Inflow=4.41 cfs 0.516 af
n=0.030 L=300.0' S=0.0063 '/' Capacity=44.03 cfs Outflow=4.37 cfs 0.513 af

Reach TS 2: Drainage Channel 2 Avg. Flow Depth=0.09' Max Vel=1.89 fps Inflow=0.58 cfs 0.162 af
n=0.030 L=100.0' S=0.0390 '/' Capacity=43.75 cfs Outflow=0.58 cfs 0.162 af

Reach TS 4: Drainage Channel 4 Avg. Flow Depth=0.16' Max Vel=2.43 fps Inflow=1.38 cfs 0.250 af
n=0.030 L=122.0' S=0.0328 '/' Capacity=94.12 cfs Outflow=1.38 cfs 0.250 af

Pond 1P: Construction Condition Sediment Forebay 4 Peak Elev=0.00' Storage=0 cf

Pond 2P: OS 2 to FES 30 Peak Elev=0.00'
12.0" Round Culvert n=0.011 L=21.0' S=0.0190 '/' Primary=0.00 cfs 0.000 af

Pond 10.3aP: Dry Well Peak Elev=3.68' Storage=183 cf Inflow=0.31 cfs 0.007 af
Outflow=0.05 cfs 0.007 af

Pond 10.3P: Dry Well Peak Elev=3.68' Storage=183 cf Inflow=0.36 cfs 0.027 af
Discarded=0.05 cfs 0.020 af Primary=0.31 cfs 0.007 af Outflow=0.35 cfs 0.027 af

Pond 10.4P: Dry Well Peak Elev=4.11' Storage=230 cf Inflow=0.36 cfs 0.027 af
Discarded=0.03 cfs 0.018 af Primary=0.33 cfs 0.009 af Outflow=0.36 cfs 0.027 af

Pond 10.5aP: Dry Well Peak Elev=4.75' Storage=314 cf Inflow=0.19 cfs 0.012 af
Outflow=0.02 cfs 0.009 af

Pond 10.5P: Dry Well Peak Elev=4.75' Storage=314 cf Inflow=0.36 cfs 0.027 af
Discarded=0.02 cfs 0.012 af Primary=0.19 cfs 0.012 af Outflow=0.20 cfs 0.024 af

Pond 10P: Existing Wetland Peak Elev=250.41' Storage=96,080 cf Inflow=18.05 cfs 2.206 af
Outflow=0.00 cfs 0.000 af

Pond 11P: FES 6 to FES 7 Peak Elev=264.71' Inflow=2.10 cfs 0.171 af
12.0" Round Culvert n=0.011 L=130.0' S=0.0069 '/' Outflow=2.10 cfs 0.171 af

Pond 12P: Sediment Forebay 3 Peak Elev=259.66' Storage=821 cf Inflow=9.30 cfs 0.834 af
Outflow=9.30 cfs 0.815 af

Pond 13P: Detention Basin 3 Peak Elev=259.66' Storage=19,373 cf Inflow=9.30 cfs 0.815 af
Primary=1.33 cfs 0.592 af Secondary=0.00 cfs 0.000 af Outflow=1.33 cfs 0.592 af

Pond 14P: Dry Well Peak Elev=4.11' Storage=230 cf Inflow=0.33 cfs 0.009 af
Outflow=0.03 cfs 0.009 af

Pond 20.3aP: Dry Well Peak Elev=5.08' Storage=363 cf Inflow=0.18 cfs 0.013 af
Outflow=0.01 cfs 0.007 af

Pond 20.3P: Dry Well Peak Elev=5.08' Storage=363 cf Inflow=0.36 cfs 0.027 af
Discarded=0.01 cfs 0.009 af Primary=0.18 cfs 0.013 af Outflow=0.19 cfs 0.021 af

Pond 20.4aP: Dry Well Peak Elev=3.75' Storage=191 cf Inflow=0.31 cfs 0.006 af
Outflow=0.04 cfs 0.006 af

Pond 20.4P: Dry Well Peak Elev=3.75' Storage=191 cf Inflow=0.36 cfs 0.027 af
Discarded=0.05 cfs 0.021 af Primary=0.31 cfs 0.006 af Outflow=0.35 cfs 0.027 af

Pond 20P: FES 25 to DMH 142 Peak Elev=260.45' Inflow=0.14 cfs 0.009 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0106 '/' Outflow=0.14 cfs 0.009 af

Pond 21.1aP: Dry Well Peak Elev=4.45' Storage=273 cf Inflow=0.30 cfs 0.010 af
Outflow=0.02 cfs 0.010 af

Pond 21.1P: Dry Well Peak Elev=4.45' Storage=273 cf Inflow=0.36 cfs 0.027 af
Discarded=0.02 cfs 0.015 af Primary=0.30 cfs 0.010 af Outflow=0.32 cfs 0.026 af

Pond 21P: Sediment Forebay 2 Peak Elev=263.16' Storage=57 cf Inflow=5.58 cfs 0.571 af
Outflow=5.59 cfs 0.568 af

Pond 22P: Detention Basin 2 Peak Elev=263.16' Storage=12,380 cf Inflow=5.59 cfs 0.568 af
Discarded=0.31 cfs 0.200 af Primary=0.58 cfs 0.162 af Secondary=0.00 cfs 0.000 af Outflow=0.88 cfs 0.362 af

Pond 26.2aP: Dry Well Peak Elev=4.97' Storage=347 cf Inflow=0.18 cfs 0.012 af
Outflow=0.01 cfs 0.007 af

Pond 26.2P: Dry Well Peak Elev=4.97' Storage=347 cf Inflow=0.36 cfs 0.027 af
Discarded=0.01 cfs 0.010 af Primary=0.18 cfs 0.012 af Outflow=0.19 cfs 0.022 af

Pond 26P: FES 18 to FES 19 Peak Elev=259.67' Inflow=5.09 cfs 0.435 af
18.0" Round Culvert n=0.011 L=110.0' S=0.0055 '/' Outflow=5.09 cfs 0.435 af

Pond 27P: FES 21 to FES 22 Peak Elev=260.46' Inflow=1.07 cfs 0.085 af
18.0" Round Culvert n=0.011 L=123.0' S=0.0163 '/' Outflow=1.07 cfs 0.085 af

Pond 31AP: FES 1 to FES 2 Peak Elev=263.17' Inflow=2.68 cfs 0.275 af
18.0" Round Culvert n=0.011 L=96.0' S=0.0104 '/' Outflow=2.68 cfs 0.275 af

Pond 39.2aP: Dry Well Peak Elev=4.89' Storage=335 cf Inflow=0.18 cfs 0.012 af
Outflow=0.01 cfs 0.008 af

Pond 39.2P: Dry Well Peak Elev=4.89' Storage=335 cf Inflow=0.36 cfs 0.027 af
Discarded=0.01 cfs 0.011 af Primary=0.18 cfs 0.012 af Outflow=0.19 cfs 0.023 af

Pond 39aP: Dry Well Peak Elev=4.71' Storage=309 cf Inflow=1.50 cfs 0.088 af
Discarded=0.03 cfs 0.018 af Primary=1.37 cfs 0.068 af Outflow=1.40 cfs 0.085 af

Pond 39bP: Dry Well Peak Elev=4.71' Storage=308 cf Inflow=1.37 cfs 0.068 af
Discarded=0.03 cfs 0.015 af Primary=1.28 cfs 0.053 af Outflow=1.30 cfs 0.068 af

Pond 39cP: Dry Well Peak Elev=4.71' Storage=308 cf Inflow=1.28 cfs 0.053 af
Discarded=0.03 cfs 0.014 af Primary=1.19 cfs 0.039 af Outflow=1.22 cfs 0.053 af

Pond 39dP: Dry Well Peak Elev=4.71' Storage=308 cf Inflow=1.19 cfs 0.039 af
Discarded=0.03 cfs 0.013 af Primary=1.10 cfs 0.026 af Outflow=1.12 cfs 0.039 af

Pond 39eP: Dry Well Peak Elev=4.71' Storage=308 cf Inflow=1.10 cfs 0.026 af
Discarded=0.03 cfs 0.013 af Primary=1.05 cfs 0.013 af Outflow=1.07 cfs 0.026 af

Pond 39fP: Dry Well Peak Elev=4.71' Storage=308 cf Inflow=1.05 cfs 0.013 af
Outflow=0.03 cfs 0.013 af

Pond 39P: Dry Well Peak Elev=4.72' Storage=309 cf Inflow=1.66 cfs 0.115 af
Discarded=0.03 cfs 0.025 af Primary=1.50 cfs 0.088 af Outflow=1.52 cfs 0.112 af

Pond 40.2P: Sediment Forebay 4 Peak Elev=259.33' Storage=696 cf Inflow=2.67 cfs 0.185 af
Outflow=2.72 cfs 0.169 af

Pond 40.3P: Detention Basin 4 Peak Elev=254.94' Storage=7,263 cf Inflow=3.42 cfs 0.456 af
Discarded=0.21 cfs 0.115 af Primary=1.38 cfs 0.250 af Secondary=0.00 cfs 0.000 af Outflow=1.59 cfs 0.365 af

Pond 46.1P: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=0.18 cfs 0.013 af
Outflow=0.01 cfs 0.006 af

Pond 46P: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=0.36 cfs 0.027 af
Discarded=0.01 cfs 0.008 af Primary=0.18 cfs 0.013 af Outflow=0.19 cfs 0.021 af

Pond 47aP: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=0.18 cfs 0.013 af
Outflow=0.01 cfs 0.006 af

Pond 47P: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=0.36 cfs 0.027 af
Discarded=0.01 cfs 0.008 af Primary=0.18 cfs 0.013 af Outflow=0.19 cfs 0.021 af

Pond 48aP: Dry Well Peak Elev=4.66' Storage=302 cf Inflow=0.19 cfs 0.012 af
Outflow=0.02 cfs 0.009 af

Pond 48P: Dry Well Peak Elev=4.66' Storage=302 cf Inflow=0.36 cfs 0.027 af
Discarded=0.02 cfs 0.013 af Primary=0.19 cfs 0.012 af Outflow=0.20 cfs 0.025 af

Pond 49aP: Dry Well Peak Elev=4.66' Storage=301 cf Inflow=0.19 cfs 0.012 af
Outflow=0.02 cfs 0.009 af

Pond 49P: Dry Well Peak Elev=4.66' Storage=302 cf Inflow=0.36 cfs 0.027 af
Discarded=0.02 cfs 0.013 af Primary=0.19 cfs 0.012 af Outflow=0.20 cfs 0.025 af

Pond 100: DMH 100 Peak Elev=263.16' Inflow=2.85 cfs 0.190 af
15.0" Round Culvert n=0.011 L=85.0' S=0.0046 '/' Outflow=2.85 cfs 0.190 af

Pond 101: DMH 101 Peak Elev=263.38' Inflow=1.63 cfs 0.108 af
12.0" Round Culvert n=0.011 L=189.0' S=0.0056 '/' Outflow=1.63 cfs 0.108 af

Pond 102: DMH 102 Peak Elev=263.96' Inflow=1.45 cfs 0.097 af
12.0" Round Culvert n=0.011 L=97.0' S=0.0052 '/' Outflow=1.45 cfs 0.097 af

Pond 103: DMH 103 Peak Elev=264.47' Inflow=1.45 cfs 0.097 af
12.0" Round Culvert n=0.011 L=79.0' S=0.0052 '/' Outflow=1.45 cfs 0.097 af

Pond 110: DMH 111 Peak Elev=271.86' Inflow=0.97 cfs 0.065 af
12.0" Round Culvert n=0.011 L=99.0' S=0.0101 '/' Outflow=0.97 cfs 0.065 af

Pond 111: DMH 110 Peak Elev=270.90' Inflow=1.49 cfs 0.099 af
12.0" Round Culvert n=0.011 L=56.0' S=0.0098 '/' Outflow=1.49 cfs 0.099 af

Pond 112: DMH 112 Peak Elev=270.25' Inflow=1.49 cfs 0.099 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.49 cfs 0.099 af

Pond 113: DMH 113 Peak Elev=269.55' Inflow=1.49 cfs 0.099 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.49 cfs 0.099 af

Pond 114: DMH 114 Peak Elev=268.85' Inflow=1.49 cfs 0.099 af
12.0" Round Culvert n=0.011 L=94.0' S=0.0106 '/' Outflow=1.49 cfs 0.099 af

Pond 120: DMH 120 Peak Elev=267.66' Inflow=2.07 cfs 0.138 af
15.0" Round Culvert n=0.011 L=200.0' S=0.0275 '/' Outflow=2.07 cfs 0.138 af

Pond 121: DMH 121 Peak Elev=262.05' Inflow=2.78 cfs 0.185 af
15.0" Round Culvert n=0.011 L=108.0' S=0.0296 '/' Outflow=2.78 cfs 0.185 af

Pond 130: DMH 130 Peak Elev=259.66' Inflow=2.22 cfs 0.148 af
15.0" Round Culvert n=0.011 L=79.0' S=0.0063 '/' Outflow=2.22 cfs 0.148 af

Pond 131: DMH 131 Peak Elev=259.66' Inflow=0.70 cfs 0.046 af
12.0" Round Culvert n=0.011 L=38.0' S=0.0139 '/' Outflow=0.70 cfs 0.046 af

Pond 132: DMH 132 Peak Elev=260.14' Inflow=0.70 cfs 0.046 af
12.0" Round Culvert n=0.011 L=74.0' S=0.0147 '/' Outflow=0.70 cfs 0.046 af

Pond 133: DMH 133 Peak Elev=261.22' Inflow=0.70 cfs 0.046 af
12.0" Round Culvert n=0.011 L=93.0' S=0.0105 '/' Outflow=0.70 cfs 0.046 af

Pond 140: DMH 140 Peak Elev=260.42' Inflow=1.33 cfs 0.089 af
12.0" Round Culvert n=0.011 L=26.0' S=0.0058 '/' Outflow=1.33 cfs 0.089 af

Pond 141: DMH 141 Peak Elev=259.79' Inflow=1.73 cfs 0.116 af
12.0" Round Culvert n=0.011 L=49.0' S=0.0061 '/' Outflow=1.73 cfs 0.116 af

Pond 142: DMH 142 Peak Elev=260.17' Inflow=1.46 cfs 0.098 af
12.0" Round Culvert n=0.011 L=54.0' S=0.0056 '/' Outflow=1.46 cfs 0.098 af

Pond CB 1: Peak Elev=263.16' Inflow=0.67 cfs 0.045 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0082 '/' Outflow=0.67 cfs 0.045 af

Pond CB 10: Peak Elev=270.92' Inflow=0.21 cfs 0.014 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0100 '/' Outflow=0.21 cfs 0.014 af

Pond CB 11: Peak Elev=272.06' Inflow=0.57 cfs 0.038 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0100 '/' Outflow=0.57 cfs 0.038 af

Pond CB 12: Peak Elev=272.00' Inflow=0.40 cfs 0.027 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0131 '/' Outflow=0.40 cfs 0.027 af

Pond CB 13: Peak Elev=262.10' Inflow=0.41 cfs 0.027 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.41 cfs 0.027 af

Pond CB 14: Peak Elev=262.08' Inflow=0.31 cfs 0.020 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.31 cfs 0.020 af

Pond CB 15: Peak Elev=259.66' Inflow=0.84 cfs 0.056 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0155 '/' Outflow=0.84 cfs 0.056 af

Pond CB 16: Peak Elev=259.66' Inflow=0.68 cfs 0.045 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0533 '/' Outflow=0.68 cfs 0.045 af

Pond CB 17: Peak Elev=261.49' Inflow=0.41 cfs 0.027 af
12.0" Round Culvert n=0.011 L=21.0' S=0.0124 '/' Outflow=0.41 cfs 0.027 af

Pond CB 18: Peak Elev=261.44' Inflow=0.29 cfs 0.019 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0153 '/' Outflow=0.29 cfs 0.019 af

Pond CB 19: Peak Elev=262.49' Inflow=0.13 cfs 0.009 af
12.0" Round Culvert n=0.011 L=40.0' S=0.0087 '/' Outflow=0.13 cfs 0.009 af

Pond CB 2: Peak Elev=263.16' Inflow=0.55 cfs 0.036 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0108 '/' Outflow=0.55 cfs 0.036 af

Pond CB 20: Peak Elev=260.54' Inflow=0.83 cfs 0.056 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0061 '/' Outflow=0.83 cfs 0.056 af

Pond CB 21: Peak Elev=260.47' Inflow=0.50 cfs 0.033 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0100 '/' Outflow=0.50 cfs 0.033 af

Pond CB 22: Peak Elev=262.18' Inflow=0.13 cfs 0.009 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.13 cfs 0.009 af

Pond CB 3: Peak Elev=265.70' Inflow=0.10 cfs 0.007 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.10 cfs 0.007 af

Pond CB 4: Peak Elev=265.67' Inflow=0.08 cfs 0.005 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0122 '/' Outflow=0.08 cfs 0.005 af

Pond CB 5: Peak Elev=264.66' Inflow=0.85 cfs 0.057 af
12.0" Round Culvert n=0.011 L=19.0' S=0.0126 '/' Outflow=0.85 cfs 0.057 af

Pond CB 6: Peak Elev=264.60' Inflow=0.60 cfs 0.039 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0160 '/' Outflow=0.60 cfs 0.039 af

Pond CB 7: Peak Elev=267.73' Inflow=0.34 cfs 0.023 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0111 '/' Outflow=0.34 cfs 0.023 af

Pond CB 8: Peak Elev=267.72' Inflow=0.24 cfs 0.016 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0100 '/' Outflow=0.24 cfs 0.016 af

Pond CB 9: Peak Elev=270.94' Inflow=0.30 cfs 0.020 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0100 '/' Outflow=0.30 cfs 0.020 af

Link A: Design Point Inflow=2.30 cfs 0.419 af
Primary=2.30 cfs 0.419 af

Link B: Design Point Inflow=2.43 cfs 0.236 af
Primary=2.43 cfs 0.236 af

Link C: Design Point Inflow=5.31 cfs 0.779 af
Primary=5.31 cfs 0.779 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 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

Subcatchment10.1S: Flow to Sediment Runoff Area=22,335 sf 5.04% Impervious Runoff Depth>1.93"
Flow Length=160' Tc=9.5 min CN=63 Runoff=1.08 cfs 0.082 af

Subcatchment10.3D: Lot 3 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment10.4D: Lot 4 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment10.5D: Lot 5 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment10S: Runoff to Wetland Runoff Area=482,565 sf 10.24% Impervious Runoff Depth>1.84"
Flow Length=450' Tc=16.2 min CN=62 Runoff=18.32 cfs 1.698 af

Subcatchment11S: Flow to Roadway Runoff Area=63,620 sf 4.69% Impervious Runoff Depth>1.76"
Flow Length=173' Tc=10.6 min CN=61 Runoff=2.69 cfs 0.215 af

Subcatchment12S: Flow to CB 3 Runoff Area=965 sf 73.06% Impervious Runoff Depth>4.28"
Tc=5.0 min CN=88 Runoff=0.12 cfs 0.008 af

Subcatchment13S: Flow to CB 4 Runoff Area=755 sf 65.56% Impervious Runoff Depth>3.96"
Tc=5.0 min CN=85 Runoff=0.09 cfs 0.006 af

Subcatchment14S: Flow to CB 5 Runoff Area=7,795 sf 74.86% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.97 cfs 0.065 af

Subcatchment15S: Flow to CB 6 Runoff Area=5,835 sf 68.72% Impervious Runoff Depth>4.07"
Tc=5.0 min CN=86 Runoff=0.69 cfs 0.045 af

Subcatchment16S: Flow to CB 7 Runoff Area=3,100 sf 74.35% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.39 cfs 0.026 af

Subcatchment17S: Flow to CB 8 Runoff Area=2,335 sf 67.88% Impervious Runoff Depth>4.07"
Tc=5.0 min CN=86 Runoff=0.27 cfs 0.018 af

Subcatchment18S: Flow to CB 13 Runoff Area=3,730 sf 74.40% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.46 cfs 0.031 af

Subcatchment19S: Flow to CB 14 Runoff Area=2,995 sf 68.45% Impervious Runoff Depth>4.07"
Tc=5.0 min CN=86 Runoff=0.35 cfs 0.023 af

Subcatchment20.1S: Flow to Forebay Runoff Area=29,640 sf 10.39% Impervious Runoff Depth>2.09"
Flow Length=76' Tc=4.3 min CN=65 Runoff=1.89 cfs 0.119 af

Subcatchment20.2S: Flow to Driveway Runoff Area=3,170 sf 12.93% Impervious Runoff Depth>2.18"
Tc=5.0 min CN=66 Runoff=0.21 cfs 0.013 af

Subcatchment20.3D: Lot 1 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment20.4D: Lot 2 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment20S: Runoff to North Runoff Area=112,225 sf 4.32% Impervious Runoff Depth>1.52"
Flow Length=132' Tc=22.2 min CN=58 Runoff=3.02 cfs 0.327 af

Subcatchment21.1D: Lot 13 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment21S: Flow to Roadway Runoff Area=108,005 sf 5.97% Impervious Runoff Depth>1.68"
Flow Length=431' Tc=19.1 min CN=60 Runoff=3.47 cfs 0.347 af

Subcatchment22S: Flow to CB 1 Runoff Area=6,110 sf 75.94% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.76 cfs 0.051 af

Subcatchment23S: Flow to CB 2 Runoff Area=5,090 sf 72.50% Impervious Runoff Depth>4.28"
Tc=5.0 min CN=88 Runoff=0.62 cfs 0.042 af

Subcatchment24S: Flow to CB 15 Runoff Area=7,670 sf 74.71% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.95 cfs 0.064 af

Subcatchment25S: Flow to CB 16 Runoff Area=6,315 sf 67.70% Impervious Runoff Depth>4.28"
Tc=5.0 min CN=88 Runoff=0.77 cfs 0.052 af

Subcatchment26.1S: Flow to Driveway Runoff Area=19,145 sf 23.19% Impervious Runoff Depth>2.97"
Flow Length=324' Tc=14.8 min CN=75 Runoff=1.25 cfs 0.109 af

Subcatchment26.2D: Lot 10 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment26S: Flow to Roadway Runoff Area=71,930 sf 20.13% Impervious Runoff Depth>2.97"
Flow Length=460' Tc=13.5 min CN=75 Runoff=4.87 cfs 0.409 af

Subcatchment27S: Flow to Roadway Runoff Area=28,810 sf 8.14% Impervious Runoff Depth>1.92"
Flow Length=195' Tc=10.4 min CN=63 Runoff=1.35 cfs 0.106 af

Subcatchment28S: Flow to CB 17 Runoff Area=3,715 sf 74.43% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.46 cfs 0.031 af

Subcatchment29S: Flow to CB 18 Runoff Area=2,840 sf 68.49% Impervious Runoff Depth>4.07"
Tc=5.0 min CN=86 Runoff=0.33 cfs 0.022 af

Subcatchment30S: Runoff to Southeast Runoff Area=83,910 sf 5.73% Impervious Runoff Depth>1.84"
Flow Length=453' Tc=17.5 min CN=62 Runoff=3.09 cfs 0.295 af

Subcatchment31S: Flow to Dry Well Runoff Area=17,150 sf 16.44% Impervious Runoff Depth>2.26"
Tc=5.0 min CN=67 Runoff=1.16 cfs 0.074 af

Subcatchment35S: Flow to CB 9 Runoff Area=2,815 sf 73.89% Impervious Runoff Depth>4.28"
Tc=5.0 min CN=88 Runoff=0.34 cfs 0.023 af

Subcatchment36S: Flow to CB 10 Runoff Area=2,085 sf 68.35% Impervious Runoff Depth>4.07"
Tc=5.0 min CN=86 Runoff=0.25 cfs 0.016 af

Subcatchment37S: Flow to CB 11 Runoff Area=5,080 sf 78.84% Impervious Runoff Depth>4.50"
Tc=5.0 min CN=90 Runoff=0.64 cfs 0.044 af

Subcatchment38S: Flow to CB 12 Runoff Area=3,840 sf 70.83% Impervious Runoff Depth>4.17"
Tc=5.0 min CN=87 Runoff=0.46 cfs 0.031 af

Subcatchment39.1D: Duplex (Right) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment39.2D: Lot 12 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment39D: Duplex (Left) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment40.1S: Flow to Driveway Runoff Area=5,970 sf 4.02% Impervious Runoff Depth>1.85"
Tc=5.0 min CN=62 Runoff=0.32 cfs 0.021 af

Subcatchment40.2S: Runoff to Southwest Runoff Area=102,780 sf 3.53% Impervious Runoff Depth>1.83"
Flow Length=755' Tc=28.7 min CN=62 Runoff=3.08 cfs 0.360 af

Subcatchment40S&46S: Runoff to West Runoff Area=175,530 sf 4.25% Impervious Runoff Depth>1.91"
Flow Length=273' Tc=28.2 min UI Adjusted CN=63 Runoff=5.56 cfs 0.641 af

Subcatchment41.1S: Flow to Forebay Runoff Area=24,405 sf 6.70% Impervious Runoff Depth>1.85"
Flow Length=164' Tc=6.4 min CN=62 Runoff=1.25 cfs 0.086 af

Subcatchment41S: Flow to CB 19 Runoff Area=1,195 sf 75.73% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.15 cfs 0.010 af

Subcatchment42S: Flow to CB 20 Runoff Area=7,575 sf 75.58% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.94 cfs 0.064 af

Subcatchment43S: Flow to CB 21 Runoff Area=4,550 sf 75.49% Impervious Runoff Depth>4.39"
Tc=5.0 min CN=89 Runoff=0.57 cfs 0.038 af

Subcatchment44S: Flow to CB 22 Runoff Area=1,220 sf 71.72% Impervious Runoff Depth>4.28"
Tc=5.0 min CN=88 Runoff=0.15 cfs 0.010 af

Subcatchment45S: Flow from Cul-de-sac Runoff Area=3,420 sf 0.00% Impervious Runoff Depth>1.77"
Tc=5.0 min CN=61 Runoff=0.18 cfs 0.012 af

Subcatchment46D: Lot 6 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment47D: Lot 7 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment48D: Lot 8 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Subcatchment49D: Lot 9 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.40"
Tc=5.0 min CN=98 Runoff=0.41 cfs 0.031 af

Reach 11R: Overland Flow Avg. Flow Depth=0.16' Max Vel=2.55 fps Inflow=2.69 cfs 0.215 af
n=0.030 L=290.0' S=0.0418 '/' Capacity=107.72 cfs Outflow=2.63 cfs 0.214 af

Reach 13R: Overland Flow Avg. Flow Depth=0.47' Max Vel=4.52 fps Inflow=1.64 cfs 0.719 af
12.0" Round Pipe n=0.011 L=40.0' S=0.0075 '/' Capacity=3.65 cfs Outflow=1.64 cfs 0.719 af

Reach 20.1R: Overland Flow Avg. Flow Depth=0.47' Max Vel=1.26 fps Inflow=2.09 cfs 0.132 af
n=0.030 L=135.0' S=0.0030 '/' Capacity=9.60 cfs Outflow=2.01 cfs 0.132 af

Reach 20.2R: FES 5 to FES 4 Avg. Flow Depth=0.15' Max Vel=2.68 fps Inflow=0.21 cfs 0.013 af
12.0" Round Pipe n=0.011 L=44.0' S=0.0091 '/' Capacity=4.01 cfs Outflow=0.21 cfs 0.013 af

Reach 21R: Overland Flow Avg. Flow Depth=0.31' Max Vel=2.61 fps Inflow=3.27 cfs 0.204 af
n=0.030 L=170.0' S=0.0182 '/' Capacity=29.91 cfs Outflow=3.15 cfs 0.203 af

Reach 22R: Overland Flow Avg. Flow Depth=0.24' Max Vel=4.57 fps Inflow=1.07 cfs 0.269 af
n=0.030 L=27.0' S=0.1481 '/' Capacity=47.08 cfs Outflow=1.07 cfs 0.269 af

Reach 26.1R: FES 9 to FES 8 Avg. Flow Depth=0.36' Max Vel=4.86 fps Inflow=1.25 cfs 0.109 af
12.0" Round Pipe n=0.011 L=45.0' S=0.0111 '/' Capacity=4.44 cfs Outflow=1.25 cfs 0.109 af

Reach 26.2R: Overland Flow Avg. Flow Depth=0.17' Max Vel=2.92 fps Inflow=1.25 cfs 0.109 af
n=0.030 L=370.0' S=0.0486 '/' Capacity=38.89 cfs Outflow=1.23 cfs 0.108 af

Reach 27R: Overland Flow Avg. Flow Depth=0.12' Max Vel=1.79 fps Inflow=1.35 cfs 0.106 af
n=0.030 L=250.0' S=0.0284 '/' Capacity=88.90 cfs Outflow=1.31 cfs 0.106 af

Reach 40.1R: FES 23 to FES 24 Avg. Flow Depth=0.18' Max Vel=3.34 fps Inflow=0.32 cfs 0.021 af
12.0" Round Pipe n=0.011 L=43.0' S=0.0116 '/' Capacity=4.54 cfs Outflow=0.32 cfs 0.021 af

Reach 40.2R: Overland Flow Avg. Flow Depth=0.08' Max Vel=1.74 fps Inflow=0.32 cfs 0.021 af
n=0.030 L=280.0' S=0.0429 '/' Capacity=36.50 cfs Outflow=0.30 cfs 0.021 af

Reach 40.3R: Overland Flow Avg. Flow Depth=0.13' Max Vel=2.38 fps Inflow=1.97 cfs 0.350 af
n=0.030 L=25.0' S=0.0400 '/' Capacity=321.00 cfs Outflow=1.97 cfs 0.350 af

Reach 40R: Drainage Channel 5 Avg. Flow Depth=0.30' Max Vel=1.67 fps Inflow=5.56 cfs 0.641 af
n=0.030 L=300.0' S=0.0063 '/' Capacity=44.03 cfs Outflow=5.52 cfs 0.638 af

Reach TS 2: Drainage Channel 2 Avg. Flow Depth=0.13' Max Vel=2.35 fps Inflow=1.07 cfs 0.269 af
n=0.030 L=100.0' S=0.0390 '/' Capacity=43.75 cfs Outflow=1.07 cfs 0.269 af

Reach TS 4: Drainage Channel 4 Avg. Flow Depth=0.20' Max Vel=2.74 fps Inflow=1.97 cfs 0.350 af
n=0.030 L=122.0' S=0.0328 '/' Capacity=94.12 cfs Outflow=1.97 cfs 0.350 af

Pond 1P: Construction Condition Sediment Forebay 4 Peak Elev=0.00' Storage=0 cf

Pond 2P: OS 2 to FES 30 Peak Elev=0.00'
12.0" Round Culvert n=0.011 L=21.0' S=0.0190 '/' Primary=0.00 cfs 0.000 af

Pond 10.3aP: Dry Well Peak Elev=3.91' Storage=208 cf Inflow=0.35 cfs 0.008 af
Outflow=0.05 cfs 0.008 af

Pond 10.3P: Dry Well Peak Elev=3.91' Storage=208 cf Inflow=0.41 cfs 0.031 af
Discarded=0.05 cfs 0.022 af Primary=0.35 cfs 0.008 af Outflow=0.40 cfs 0.031 af

Pond 10.4P: Dry Well Peak Elev=4.36' Storage=260 cf Inflow=0.41 cfs 0.031 af
Discarded=0.04 cfs 0.020 af Primary=0.34 cfs 0.010 af Outflow=0.37 cfs 0.030 af

Pond 10.5aP: Dry Well Peak Elev=5.02' Storage=353 cf Inflow=0.20 cfs 0.014 af
Outflow=0.02 cfs 0.010 af

Pond 10.5P: Dry Well Peak Elev=5.02' Storage=353 cf Inflow=0.41 cfs 0.031 af
Discarded=0.02 cfs 0.013 af Primary=0.20 cfs 0.014 af Outflow=0.22 cfs 0.027 af

Pond 10P: Existing Wetland Peak Elev=250.73' Storage=119,211 cf Inflow=23.02 cfs 2.737 af
Outflow=0.00 cfs 0.000 af

Pond 11P: FES 6 to FES 7 Peak Elev=264.90' Inflow=2.69 cfs 0.215 af
12.0" Round Culvert n=0.011 L=130.0' S=0.0069 '/' Outflow=2.69 cfs 0.215 af

Pond 12P: Sediment Forebay 3 Peak Elev=259.94' Storage=821 cf Inflow=10.94 cfs 0.981 af
Outflow=10.93 cfs 0.962 af

Pond 13P: Detention Basin 3 Peak Elev=259.94' Storage=22,857 cf Inflow=10.93 cfs 0.962 af
Primary=1.64 cfs 0.719 af Secondary=0.00 cfs 0.000 af Outflow=1.64 cfs 0.719 af

Pond 14P: Dry Well Peak Elev=4.36' Storage=260 cf Inflow=0.34 cfs 0.010 af
Outflow=0.04 cfs 0.010 af

Pond 20.3aP: Dry Well Peak Elev=5.36' Storage=409 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.007 af

Pond 20.3P: Dry Well Peak Elev=5.36' Storage=409 cf Inflow=0.41 cfs 0.031 af
Discarded=0.01 cfs 0.010 af Primary=0.20 cfs 0.014 af Outflow=0.21 cfs 0.024 af

Pond 20.4aP: Dry Well Peak Elev=3.99' Storage=216 cf Inflow=0.35 cfs 0.008 af
Outflow=0.04 cfs 0.008 af

Pond 20.4P: Dry Well Peak Elev=3.99' Storage=216 cf Inflow=0.41 cfs 0.031 af
Discarded=0.05 cfs 0.023 af Primary=0.35 cfs 0.008 af Outflow=0.40 cfs 0.030 af

Pond 20P: FES 25 to DMH 142 Peak Elev=260.48' Inflow=0.18 cfs 0.012 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0106 '/' Outflow=0.18 cfs 0.012 af

Pond 21.1aP: Dry Well Peak Elev=4.70' Storage=307 cf Inflow=0.23 cfs 0.012 af
Outflow=0.02 cfs 0.011 af

Pond 21.1P: Dry Well Peak Elev=4.70' Storage=307 cf Inflow=0.41 cfs 0.031 af
Discarded=0.02 cfs 0.017 af Primary=0.23 cfs 0.012 af Outflow=0.25 cfs 0.029 af

Pond 21P: Sediment Forebay 2 Peak Elev=263.50' Storage=57 cf Inflow=6.82 cfs 0.696 af
Outflow=6.83 cfs 0.693 af

Pond 22P: Detention Basin 2 Peak Elev=263.50' Storage=14,408 cf Inflow=6.83 cfs 0.693 af
Discarded=0.33 cfs 0.211 af Primary=1.07 cfs 0.269 af Secondary=0.00 cfs 0.000 af Outflow=1.40 cfs 0.480 af

Pond 26.2aP: Dry Well Peak Elev=5.25' Storage=391 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.008 af

Pond 26.2P: Dry Well Peak Elev=5.25' Storage=391 cf Inflow=0.41 cfs 0.031 af
Discarded=0.01 cfs 0.011 af Primary=0.20 cfs 0.014 af Outflow=0.21 cfs 0.025 af

Pond 26P: FES 18 to FES 19 Peak Elev=259.95' Inflow=6.06 cfs 0.517 af
18.0" Round Culvert n=0.011 L=110.0' S=0.0055 '/' Outflow=6.06 cfs 0.517 af

Pond 27P: FES 21 to FES 22 Peak Elev=260.52' Inflow=1.35 cfs 0.106 af
18.0" Round Culvert n=0.011 L=123.0' S=0.0163 '/' Outflow=1.35 cfs 0.106 af

Pond 31AP: FES 1 to FES 2 Peak Elev=263.51' Inflow=3.47 cfs 0.347 af
18.0" Round Culvert n=0.011 L=96.0' S=0.0104 '/' Outflow=3.47 cfs 0.347 af

Pond 39.2aP: Dry Well Peak Elev=5.17' Storage=377 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.009 af

Pond 39.2P: Dry Well Peak Elev=5.17' Storage=377 cf Inflow=0.41 cfs 0.031 af
Discarded=0.01 cfs 0.012 af Primary=0.20 cfs 0.014 af Outflow=0.21 cfs 0.026 af

Pond 39aP: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=1.75 cfs 0.105 af
Discarded=0.04 cfs 0.020 af Primary=1.58 cfs 0.083 af Outflow=1.61 cfs 0.103 af

Pond 39bP: Dry Well Peak Elev=5.12' Storage=370 cf Inflow=1.58 cfs 0.083 af
Discarded=0.04 cfs 0.017 af Primary=1.44 cfs 0.065 af Outflow=1.47 cfs 0.082 af

Pond 39cP: Dry Well Peak Elev=5.12' Storage=369 cf Inflow=1.44 cfs 0.065 af
Discarded=0.04 cfs 0.016 af Primary=1.36 cfs 0.048 af Outflow=1.39 cfs 0.064 af

Pond 39dP: Dry Well Peak Elev=5.12' Storage=369 cf Inflow=1.36 cfs 0.048 af
Discarded=0.04 cfs 0.016 af Primary=1.25 cfs 0.032 af Outflow=1.28 cfs 0.048 af

Pond 39eP: Dry Well Peak Elev=5.12' Storage=369 cf Inflow=1.25 cfs 0.032 af
Discarded=0.04 cfs 0.016 af Primary=1.15 cfs 0.016 af Outflow=1.17 cfs 0.031 af

Pond 39fP: Dry Well Peak Elev=5.12' Storage=369 cf Inflow=1.15 cfs 0.016 af
Outflow=0.04 cfs 0.015 af

Pond 39P: Dry Well Peak Elev=5.13' Storage=370 cf Inflow=1.97 cfs 0.135 af
Discarded=0.04 cfs 0.027 af Primary=1.75 cfs 0.105 af Outflow=1.78 cfs 0.132 af

Pond 40.2P: Sediment Forebay 4 Peak Elev=259.37' Storage=696 cf Inflow=3.19 cfs 0.220 af
Outflow=3.27 cfs 0.204 af

Pond 40.3P: Detention Basin 4 Peak Elev=255.25' Storage=8,554 cf Inflow=4.24 cfs 0.563 af
Discarded=0.23 cfs 0.121 af Primary=1.97 cfs 0.350 af Secondary=0.00 cfs 0.000 af Outflow=2.20 cfs 0.471 af

Pond 46.1P: Dry Well Peak Elev=5.41' Storage=417 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.007 af

Pond 46P: Dry Well Peak Elev=5.41' Storage=417 cf Inflow=0.41 cfs 0.031 af
Discarded=0.01 cfs 0.009 af Primary=0.20 cfs 0.014 af Outflow=0.21 cfs 0.023 af

Pond 47aP: Dry Well Peak Elev=5.41' Storage=417 cf Inflow=0.20 cfs 0.014 af
Outflow=0.01 cfs 0.007 af

Pond 47P: Dry Well Peak Elev=5.41' Storage=417 cf Inflow=0.41 cfs 0.031 af
Discarded=0.01 cfs 0.009 af Primary=0.20 cfs 0.014 af Outflow=0.21 cfs 0.023 af

Pond 48aP: Dry Well Peak Elev=4.93' Storage=340 cf Inflow=0.21 cfs 0.013 af
Outflow=0.02 cfs 0.011 af

Pond 48P: Dry Well Peak Elev=4.93' Storage=340 cf Inflow=0.41 cfs 0.031 af
Discarded=0.02 cfs 0.014 af Primary=0.21 cfs 0.013 af Outflow=0.22 cfs 0.028 af

Pond 49aP: Dry Well Peak Elev=4.93' Storage=340 cf Inflow=0.21 cfs 0.013 af
Outflow=0.02 cfs 0.011 af

Pond 49P: Dry Well Peak Elev=4.93' Storage=340 cf Inflow=0.41 cfs 0.031 af
Discarded=0.02 cfs 0.014 af Primary=0.21 cfs 0.013 af Outflow=0.22 cfs 0.028 af

Pond 100: DMH 100 Peak Elev=263.50' Inflow=3.24 cfs 0.217 af
15.0" Round Culvert n=0.011 L=85.0' S=0.0046 '/' Outflow=3.24 cfs 0.217 af

Pond 101: DMH 101 Peak Elev=263.51' Inflow=1.86 cfs 0.124 af
12.0" Round Culvert n=0.011 L=189.0' S=0.0056 '/' Outflow=1.86 cfs 0.124 af

Pond 102: DMH 102 Peak Elev=264.03' Inflow=1.66 cfs 0.111 af
12.0" Round Culvert n=0.011 L=97.0' S=0.0052 '/' Outflow=1.66 cfs 0.111 af

Pond 103: DMH 103 Peak Elev=264.54' Inflow=1.66 cfs 0.111 af
12.0" Round Culvert n=0.011 L=79.0' S=0.0052 '/' Outflow=1.66 cfs 0.111 af

Pond 110: DMH 111 Peak Elev=271.90' Inflow=1.10 cfs 0.074 af
12.0" Round Culvert n=0.011 L=99.0' S=0.0101 '/' Outflow=1.10 cfs 0.074 af

Pond 111: DMH 110 Peak Elev=270.96' Inflow=1.69 cfs 0.114 af
12.0" Round Culvert n=0.011 L=56.0' S=0.0098 '/' Outflow=1.69 cfs 0.114 af

Pond 112: DMH 112 Peak Elev=270.30' Inflow=1.69 cfs 0.114 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.69 cfs 0.114 af

Pond 113: DMH 113 Peak Elev=269.60' Inflow=1.69 cfs 0.114 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.69 cfs 0.114 af

Pond 114: DMH 114 Peak Elev=268.90' Inflow=1.69 cfs 0.114 af
12.0" Round Culvert n=0.011 L=94.0' S=0.0106 '/' Outflow=1.69 cfs 0.114 af

Pond 120: DMH 120 Peak Elev=267.72' Inflow=2.35 cfs 0.158 af
15.0" Round Culvert n=0.011 L=200.0' S=0.0275 '/' Outflow=2.35 cfs 0.158 af

Pond 121: DMH 121 Peak Elev=262.12' Inflow=3.17 cfs 0.212 af
15.0" Round Culvert n=0.011 L=108.0' S=0.0296 '/' Outflow=3.17 cfs 0.212 af

Pond 130: DMH 130 Peak Elev=259.94' Inflow=2.52 cfs 0.169 af
15.0" Round Culvert n=0.011 L=79.0' S=0.0063 '/' Outflow=2.52 cfs 0.169 af

Pond 131: DMH 131 Peak Elev=259.94' Inflow=0.80 cfs 0.053 af
12.0" Round Culvert n=0.011 L=38.0' S=0.0139 '/' Outflow=0.80 cfs 0.053 af

Pond 132: DMH 132 Peak Elev=260.17' Inflow=0.80 cfs 0.053 af
12.0" Round Culvert n=0.011 L=74.0' S=0.0147 '/' Outflow=0.80 cfs 0.053 af

Pond 133: DMH 133 Peak Elev=261.25' Inflow=0.80 cfs 0.053 af
12.0" Round Culvert n=0.011 L=93.0' S=0.0105 '/' Outflow=0.80 cfs 0.053 af

Pond 140: DMH 140 Peak Elev=260.50' Inflow=1.51 cfs 0.102 af
12.0" Round Culvert n=0.011 L=26.0' S=0.0058 '/' Outflow=1.51 cfs 0.102 af

Pond 141: DMH 141 Peak Elev=259.86' Inflow=1.98 cfs 0.133 af
12.0" Round Culvert n=0.011 L=49.0' S=0.0061 '/' Outflow=1.98 cfs 0.133 af

Pond 142: DMH 142 Peak Elev=260.25' Inflow=1.68 cfs 0.113 af
12.0" Round Culvert n=0.011 L=54.0' S=0.0056 '/' Outflow=1.68 cfs 0.113 af

Pond CB 1: Peak Elev=263.50' Inflow=0.76 cfs 0.051 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0082 '/' Outflow=0.76 cfs 0.051 af

Pond CB 10: Peak Elev=270.97' Inflow=0.25 cfs 0.016 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0100 '/' Outflow=0.25 cfs 0.016 af

Pond CB 11: Peak Elev=272.10' Inflow=0.64 cfs 0.044 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0100 '/' Outflow=0.64 cfs 0.044 af

Pond CB 12: Peak Elev=272.04' Inflow=0.46 cfs 0.031 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0131 '/' Outflow=0.46 cfs 0.031 af

Pond CB 13: Peak Elev=262.17' Inflow=0.46 cfs 0.031 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.46 cfs 0.031 af

Pond CB 14: Peak Elev=262.15' Inflow=0.35 cfs 0.023 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.35 cfs 0.023 af

Pond CB 15: Peak Elev=259.94' Inflow=0.95 cfs 0.064 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0155 '/' Outflow=0.95 cfs 0.064 af

Pond CB 16: Peak Elev=259.94' Inflow=0.77 cfs 0.052 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0533 '/' Outflow=0.77 cfs 0.052 af

Pond CB 17: Peak Elev=261.52' Inflow=0.46 cfs 0.031 af
12.0" Round Culvert n=0.011 L=21.0' S=0.0124 '/' Outflow=0.46 cfs 0.031 af

Pond CB 18: Peak Elev=261.47' Inflow=0.33 cfs 0.022 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0153 '/' Outflow=0.33 cfs 0.022 af

Pond CB 19: Peak Elev=262.51' Inflow=0.15 cfs 0.010 af
12.0" Round Culvert n=0.011 L=40.0' S=0.0087 '/' Outflow=0.15 cfs 0.010 af

Pond CB 2: Peak Elev=263.50' Inflow=0.62 cfs 0.042 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0108 '/' Outflow=0.62 cfs 0.042 af

Pond CB 20: Peak Elev=260.61' Inflow=0.94 cfs 0.064 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0061 '/' Outflow=0.94 cfs 0.064 af

Pond CB 21: Peak Elev=260.55' Inflow=0.57 cfs 0.038 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0100 '/' Outflow=0.57 cfs 0.038 af

Pond CB 22: Peak Elev=262.19' Inflow=0.15 cfs 0.010 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.15 cfs 0.010 af

Pond CB 3: Peak Elev=265.71' Inflow=0.12 cfs 0.008 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.12 cfs 0.008 af

Pond CB 4: Peak Elev=265.68' Inflow=0.09 cfs 0.006 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0122 '/' Outflow=0.09 cfs 0.006 af

Pond CB 5: Peak Elev=264.73' Inflow=0.97 cfs 0.065 af
12.0" Round Culvert n=0.011 L=19.0' S=0.0126 '/' Outflow=0.97 cfs 0.065 af

Pond CB 6: Peak Elev=264.66' Inflow=0.69 cfs 0.045 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0160 '/' Outflow=0.69 cfs 0.045 af

Pond CB 7: Peak Elev=267.78' Inflow=0.39 cfs 0.026 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0111 '/' Outflow=0.39 cfs 0.026 af

Pond CB 8: Peak Elev=267.77' Inflow=0.27 cfs 0.018 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0100 '/' Outflow=0.27 cfs 0.018 af

Pond CB 9: Peak Elev=271.00' Inflow=0.34 cfs 0.023 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0100 '/' Outflow=0.34 cfs 0.023 af

Link A: Design Point Inflow=3.33 cfs 0.597 af
Primary=3.33 cfs 0.597 af

Link B: Design Point Inflow=3.09 cfs 0.295 af
Primary=3.09 cfs 0.295 af

Link C: Design Point Inflow=7.05 cfs 1.009 af
Primary=7.05 cfs 1.009 af

Time span=1.00-20.00 hrs, dt=0.01 hrs, 1901 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

Subcatchment10.1S: Flow to Sediment Runoff Area=22,335 sf 5.04% Impervious Runoff Depth>2.32"
Flow Length=160' Tc=9.5 min CN=63 Runoff=1.32 cfs 0.099 af

Subcatchment10.3D: Lot 3 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment10.4D: Lot 4 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment10.5D: Lot 5 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment10S: Runoff to Wetland Runoff Area=482,565 sf 10.24% Impervious Runoff Depth>2.23"
Flow Length=450' Tc=16.2 min CN=62 Runoff=22.46 cfs 2.057 af

Subcatchment11S: Flow to Roadway Runoff Area=63,620 sf 4.69% Impervious Runoff Depth>2.15"
Flow Length=173' Tc=10.6 min CN=61 Runoff=3.31 cfs 0.261 af

Subcatchment12S: Flow to CB 3 Runoff Area=965 sf 73.06% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=88 Runoff=0.13 cfs 0.009 af

Subcatchment13S: Flow to CB 4 Runoff Area=755 sf 65.56% Impervious Runoff Depth>4.51"
Tc=5.0 min CN=85 Runoff=0.10 cfs 0.007 af

Subcatchment14S: Flow to CB 5 Runoff Area=7,795 sf 74.86% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=1.08 cfs 0.074 af

Subcatchment15S: Flow to CB 6 Runoff Area=5,835 sf 68.72% Impervious Runoff Depth>4.61"
Tc=5.0 min CN=86 Runoff=0.77 cfs 0.051 af

Subcatchment16S: Flow to CB 7 Runoff Area=3,100 sf 74.35% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.43 cfs 0.029 af

Subcatchment17S: Flow to CB 8 Runoff Area=2,335 sf 67.88% Impervious Runoff Depth>4.61"
Tc=5.0 min CN=86 Runoff=0.31 cfs 0.021 af

Subcatchment18S: Flow to CB 13 Runoff Area=3,730 sf 74.40% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.52 cfs 0.035 af

Subcatchment19S: Flow to CB 14 Runoff Area=2,995 sf 68.45% Impervious Runoff Depth>4.61"
Tc=5.0 min CN=86 Runoff=0.40 cfs 0.026 af

Subcatchment20.1S: Flow to Forebay Runoff Area=29,640 sf 10.39% Impervious Runoff Depth>2.51"
Flow Length=76' Tc=4.3 min CN=65 Runoff=2.28 cfs 0.142 af

Subcatchment20.2S: Flow to Driveway Runoff Area=3,170 sf 12.93% Impervious Runoff Depth>2.60"
Tc=5.0 min CN=66 Runoff=0.25 cfs 0.016 af

Subcatchment20.3D: Lot 1 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment20.4D: Lot 2 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment20S: Runoff to North Runoff Area=112,225 sf 4.32% Impervious Runoff Depth>1.88"
Flow Length=132' Tc=22.2 min CN=58 Runoff=3.80 cfs 0.403 af

Subcatchment21.1D: Lot 13 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment21S: Flow to Roadway Runoff Area=108,005 sf 5.97% Impervious Runoff Depth>2.05"
Flow Length=431' Tc=19.1 min CN=60 Runoff=4.30 cfs 0.424 af

Subcatchment22S: Flow to CB 1 Runoff Area=6,110 sf 75.94% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.85 cfs 0.058 af

Subcatchment23S: Flow to CB 2 Runoff Area=5,090 sf 72.50% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=88 Runoff=0.70 cfs 0.047 af

Subcatchment24S: Flow to CB 15 Runoff Area=7,670 sf 74.71% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=1.07 cfs 0.073 af

Subcatchment25S: Flow to CB 16 Runoff Area=6,315 sf 67.70% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=88 Runoff=0.86 cfs 0.058 af

Subcatchment26.1S: Flow to Driveway Runoff Area=19,145 sf 23.19% Impervious Runoff Depth>3.45"
Flow Length=324' Tc=14.8 min CN=75 Runoff=1.45 cfs 0.127 af

Subcatchment26.2D: Lot 10 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment26S: Flow to Roadway Runoff Area=71,930 sf 20.13% Impervious Runoff Depth>3.46"
Flow Length=460' Tc=13.5 min CN=75 Runoff=5.66 cfs 0.476 af

Subcatchment27S: Flow to Roadway Runoff Area=28,810 sf 8.14% Impervious Runoff Depth>2.32"
Flow Length=195' Tc=10.4 min CN=63 Runoff=1.65 cfs 0.128 af

Subcatchment28S: Flow to CB 17 Runoff Area=3,715 sf 74.43% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.52 cfs 0.035 af

Subcatchment29S: Flow to CB 18 Runoff Area=2,840 sf 68.49% Impervious Runoff Depth>4.61"
Tc=5.0 min CN=86 Runoff=0.38 cfs 0.025 af

Subcatchment30S: Runoff to Southeast Runoff Area=83,910 sf 5.73% Impervious Runoff Depth>2.23"
Flow Length=453' Tc=17.5 min CN=62 Runoff=3.79 cfs 0.357 af

Subcatchment31S: Flow to Dry Well Runoff Area=17,150 sf 16.44% Impervious Runoff Depth>2.69"
Tc=5.0 min CN=67 Runoff=1.38 cfs 0.088 af

Subcatchment35S: Flow to CB 9 Runoff Area=2,815 sf 73.89% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=88 Runoff=0.39 cfs 0.026 af

Subcatchment36S: Flow to CB 10 Runoff Area=2,085 sf 68.35% Impervious Runoff Depth>4.61"
Tc=5.0 min CN=86 Runoff=0.28 cfs 0.018 af

Subcatchment37S: Flow to CB 11 Runoff Area=5,080 sf 78.84% Impervious Runoff Depth>5.05"
Tc=5.0 min CN=90 Runoff=0.72 cfs 0.049 af

Subcatchment38S: Flow to CB 12 Runoff Area=3,840 sf 70.83% Impervious Runoff Depth>4.72"
Tc=5.0 min CN=87 Runoff=0.52 cfs 0.035 af

Subcatchment39.1D: Duplex (Right) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment39.2D: Lot 12 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment39D: Duplex (Left) Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment40.1S: Flow to Driveway Runoff Area=5,970 sf 4.02% Impervious Runoff Depth>2.24"
Tc=5.0 min CN=62 Runoff=0.40 cfs 0.026 af

Subcatchment40.2S: Runoff to Southwest Runoff Area=102,780 sf 3.53% Impervious Runoff Depth>2.22"
Flow Length=755' Tc=28.7 min CN=62 Runoff=3.77 cfs 0.436 af

Subcatchment40S&46S: Runoff to West Runoff Area=175,530 sf 4.25% Impervious Runoff Depth>2.31"
Flow Length=273' Tc=28.2 min UI Adjusted CN=63 Runoff=6.77 cfs 0.774 af

Subcatchment41.1S: Flow to Forebay Runoff Area=24,405 sf 6.70% Impervious Runoff Depth>2.24"
Flow Length=164' Tc=6.4 min CN=62 Runoff=1.54 cfs 0.104 af

Subcatchment41S: Flow to CB 19 Runoff Area=1,195 sf 75.73% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.17 cfs 0.011 af

Subcatchment42S: Flow to CB 20 Runoff Area=7,575 sf 75.58% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=1.05 cfs 0.072 af

Subcatchment43S: Flow to CB 21 Runoff Area=4,550 sf 75.49% Impervious Runoff Depth>4.94"
Tc=5.0 min CN=89 Runoff=0.63 cfs 0.043 af

Subcatchment44S: Flow to CB 22 Runoff Area=1,220 sf 71.72% Impervious Runoff Depth>4.83"
Tc=5.0 min CN=88 Runoff=0.17 cfs 0.011 af

Subcatchment45S: Flow from Cul-de-sac Runoff Area=3,420 sf 0.00% Impervious Runoff Depth>2.15"
Tc=5.0 min CN=61 Runoff=0.22 cfs 0.014 af

Subcatchment46D: Lot 6 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment47D: Lot 7 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment48D: Lot 8 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Subcatchment49D: Lot 9 House Runoff Area=2,955 sf 100.00% Impervious Runoff Depth>5.97"
Tc=5.0 min CN=98 Runoff=0.45 cfs 0.034 af

Reach 11R: Overland Flow Avg. Flow Depth=0.18' Max Vel=2.73 fps Inflow=3.31 cfs 0.261 af
n=0.030 L=290.0' S=0.0418 '/' Capacity=107.72 cfs Outflow=3.25 cfs 0.260 af

Reach 13R: Overland Flow Avg. Flow Depth=0.52' Max Vel=4.71 fps Inflow=1.94 cfs 0.850 af
12.0" Round Pipe n=0.011 L=40.0' S=0.0075 '/' Capacity=3.65 cfs Outflow=1.94 cfs 0.850 af

Reach 20.1R: Overland Flow Avg. Flow Depth=0.51' Max Vel=1.33 fps Inflow=2.52 cfs 0.158 af
n=0.030 L=135.0' S=0.0030 '/' Capacity=9.60 cfs Outflow=2.43 cfs 0.158 af

Reach 20.2R: FES 5 to FES 4 Avg. Flow Depth=0.17' Max Vel=2.83 fps Inflow=0.25 cfs 0.016 af
12.0" Round Pipe n=0.011 L=44.0' S=0.0091 '/' Capacity=4.01 cfs Outflow=0.25 cfs 0.016 af

Reach 21R: Overland Flow Avg. Flow Depth=0.33' Max Vel=2.74 fps Inflow=3.78 cfs 0.240 af
n=0.030 L=170.0' S=0.0182 '/' Capacity=29.91 cfs Outflow=3.68 cfs 0.239 af

Reach 22R: Overland Flow Avg. Flow Depth=0.28' Max Vel=5.08 fps Inflow=1.63 cfs 0.382 af
n=0.030 L=27.0' S=0.1481 '/' Capacity=47.08 cfs Outflow=1.63 cfs 0.382 af

Reach 26.1R: FES 9 to FES 8 Avg. Flow Depth=0.39' Max Vel=5.06 fps Inflow=1.45 cfs 0.127 af
12.0" Round Pipe n=0.011 L=45.0' S=0.0111 '/' Capacity=4.44 cfs Outflow=1.45 cfs 0.126 af

Reach 26.2R: Overland Flow Avg. Flow Depth=0.18' Max Vel=3.06 fps Inflow=1.45 cfs 0.126 af
n=0.030 L=370.0' S=0.0486 '/' Capacity=38.89 cfs Outflow=1.44 cfs 0.126 af

Reach 27R: Overland Flow Avg. Flow Depth=0.13' Max Vel=1.91 fps Inflow=1.65 cfs 0.128 af
n=0.030 L=250.0' S=0.0284 '/' Capacity=88.90 cfs Outflow=1.61 cfs 0.128 af

Reach 40.1R: FES 23 to FES 24 Avg. Flow Depth=0.20' Max Vel=3.55 fps Inflow=0.40 cfs 0.026 af
12.0" Round Pipe n=0.011 L=43.0' S=0.0116 '/' Capacity=4.54 cfs Outflow=0.39 cfs 0.026 af

Reach 40.2R: Overland Flow Avg. Flow Depth=0.09' Max Vel=1.87 fps Inflow=0.39 cfs 0.026 af
n=0.030 L=280.0' S=0.0429 '/' Capacity=36.50 cfs Outflow=0.37 cfs 0.025 af

Reach 40.3R: Overland Flow Avg. Flow Depth=0.16' Max Vel=2.70 fps Inflow=2.78 cfs 0.455 af
n=0.030 L=25.0' S=0.0400 '/' Capacity=321.00 cfs Outflow=2.78 cfs 0.455 af

Reach 40R: Drainage Channel 5 Avg. Flow Depth=0.34' Max Vel=1.80 fps Inflow=6.77 cfs 0.774 af
n=0.030 L=300.0' S=0.0063 '/' Capacity=44.03 cfs Outflow=6.73 cfs 0.771 af

Reach TS 2: Drainage Channel 2 Avg. Flow Depth=0.17' Max Vel=2.73 fps Inflow=1.64 cfs 0.382 af
n=0.030 L=100.0' S=0.0390 '/' Capacity=43.75 cfs Outflow=1.63 cfs 0.382 af

Reach TS 4: Drainage Channel 4 Avg. Flow Depth=0.24' Max Vel=3.07 fps Inflow=2.78 cfs 0.455 af
n=0.030 L=122.0' S=0.0328 '/' Capacity=94.12 cfs Outflow=2.78 cfs 0.455 af

Pond 1P: Construction Condition Sediment Forebay 4 Peak Elev=0.00' Storage=0 cf

Pond 2P: OS 2 to FES 30 Peak Elev=0.00'
12.0" Round Culvert n=0.011 L=21.0' S=0.0190 '/' Primary=0.00 cfs 0.000 af

Pond 10.3aP: Dry Well Peak Elev=4.13' Storage=233 cf Inflow=0.39 cfs 0.009 af
Outflow=0.05 cfs 0.009 af

Pond 10.3P: Dry Well Peak Elev=4.13' Storage=233 cf Inflow=0.45 cfs 0.034 af
Discarded=0.05 cfs 0.024 af Primary=0.39 cfs 0.009 af Outflow=0.44 cfs 0.034 af

Pond 10.4P: Dry Well Peak Elev=4.59' Storage=291 cf Inflow=0.45 cfs 0.034 af
Discarded=0.04 cfs 0.022 af Primary=0.31 cfs 0.012 af Outflow=0.33 cfs 0.033 af

Pond 10.5aP: Dry Well Peak Elev=5.26' Storage=393 cf Inflow=0.22 cfs 0.015 af
Outflow=0.02 cfs 0.011 af

Pond 10.5P: Dry Well Peak Elev=5.26' Storage=393 cf Inflow=0.45 cfs 0.034 af
Discarded=0.02 cfs 0.014 af Primary=0.22 cfs 0.015 af Outflow=0.24 cfs 0.030 af

Pond 10P: Existing Wetland Peak Elev=251.06' Storage=143,491 cf Inflow=28.26 cfs 3.295 af
Outflow=0.00 cfs 0.000 af

Pond 11P: FES 6 to FES 7 Peak Elev=265.17' Inflow=3.31 cfs 0.261 af
12.0" Round Culvert n=0.011 L=130.0' S=0.0069 '/' Outflow=3.31 cfs 0.261 af

Pond 12P: Sediment Forebay 3 Peak Elev=260.21' Storage=821 cf Inflow=12.60 cfs 1.132 af
Outflow=12.60 cfs 1.113 af

Pond 13P: Detention Basin 3 Peak Elev=260.21' Storage=26,450 cf Inflow=12.60 cfs 1.113 af
Primary=1.94 cfs 0.850 af Secondary=0.00 cfs 0.000 af Outflow=1.94 cfs 0.850 af

Pond 14P: Dry Well Peak Elev=4.59' Storage=291 cf Inflow=0.31 cfs 0.012 af
Outflow=0.04 cfs 0.012 af

Pond 20.3aP: Dry Well Peak Elev=5.62' Storage=456 cf Inflow=0.22 cfs 0.016 af
Outflow=0.01 cfs 0.008 af

Pond 20.3P: Dry Well Peak Elev=5.62' Storage=456 cf Inflow=0.45 cfs 0.034 af
Discarded=0.01 cfs 0.010 af Primary=0.22 cfs 0.016 af Outflow=0.23 cfs 0.026 af

Pond 20.4aP: Dry Well Peak Elev=4.21' Storage=242 cf Inflow=0.39 cfs 0.009 af
Outflow=0.04 cfs 0.009 af

Pond 20.4P: Dry Well Peak Elev=4.21' Storage=242 cf Inflow=0.45 cfs 0.034 af
Discarded=0.06 cfs 0.025 af Primary=0.39 cfs 0.009 af Outflow=0.44 cfs 0.034 af

Pond 20P: FES 25 to DMH 142 Peak Elev=260.52' Inflow=0.22 cfs 0.014 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0106 '/' Outflow=0.22 cfs 0.014 af

Pond 21.1aP: Dry Well Peak Elev=4.94' Storage=342 cf Inflow=0.23 cfs 0.014 af
Outflow=0.03 cfs 0.013 af

Pond 21.1P: Dry Well Peak Elev=4.94' Storage=342 cf Inflow=0.45 cfs 0.034 af
Discarded=0.03 cfs 0.018 af Primary=0.23 cfs 0.014 af Outflow=0.25 cfs 0.032 af

Pond 21P: Sediment Forebay 2 Peak Elev=263.83' Storage=57 cf Inflow=8.12 cfs 0.827 af
Outflow=8.12 cfs 0.822 af

Pond 22P: Detention Basin 2 Peak Elev=263.83' Storage=16,547 cf Inflow=8.12 cfs 0.822 af
Discarded=0.36 cfs 0.221 af Primary=1.64 cfs 0.382 af Secondary=0.00 cfs 0.000 af Outflow=2.00 cfs 0.604 af

Pond 26.2aP: Dry Well Peak Elev=5.51' Storage=435 cf Inflow=0.22 cfs 0.016 af
Outflow=0.01 cfs 0.009 af

Pond 26.2P: Dry Well Peak Elev=5.51' Storage=435 cf Inflow=0.45 cfs 0.034 af
Discarded=0.01 cfs 0.011 af Primary=0.22 cfs 0.016 af Outflow=0.23 cfs 0.027 af

Pond 26P: FES 18 to FES 19 Peak Elev=260.27' Inflow=7.04 cfs 0.602 af
18.0" Round Culvert n=0.011 L=110.0' S=0.0055 '/' Outflow=7.04 cfs 0.602 af

Pond 27P: FES 21 to FES 22 Peak Elev=260.58' Inflow=1.65 cfs 0.128 af
18.0" Round Culvert n=0.011 L=123.0' S=0.0163 '/' Outflow=1.65 cfs 0.128 af

Pond 31AP: FES 1 to FES 2 Peak Elev=263.85' Inflow=4.30 cfs 0.424 af
18.0" Round Culvert n=0.011 L=96.0' S=0.0104 '/' Outflow=4.30 cfs 0.424 af

Pond 39.2aP: Dry Well Peak Elev=5.42' Storage=420 cf Inflow=0.22 cfs 0.015 af
Outflow=0.02 cfs 0.010 af

Pond 39.2P: Dry Well Peak Elev=5.42' Storage=420 cf Inflow=0.45 cfs 0.034 af
Discarded=0.02 cfs 0.013 af Primary=0.22 cfs 0.015 af Outflow=0.23 cfs 0.028 af

Pond 39aP: Dry Well Peak Elev=5.50' Storage=434 cf Inflow=1.99 cfs 0.123 af
Discarded=0.04 cfs 0.022 af Primary=1.78 cfs 0.098 af Outflow=1.81 cfs 0.121 af

Pond 39bP: Dry Well Peak Elev=5.50' Storage=434 cf Inflow=1.78 cfs 0.098 af
Discarded=0.04 cfs 0.020 af Primary=1.56 cfs 0.077 af Outflow=1.59 cfs 0.097 af

Pond 39cP: Dry Well Peak Elev=5.50' Storage=433 cf Inflow=1.56 cfs 0.077 af
Discarded=0.04 cfs 0.019 af Primary=1.36 cfs 0.057 af Outflow=1.39 cfs 0.076 af

Pond 39dP: Dry Well Peak Elev=5.50' Storage=433 cf Inflow=1.36 cfs 0.057 af
Discarded=0.04 cfs 0.018 af Primary=1.13 cfs 0.038 af Outflow=1.16 cfs 0.056 af

Pond 39eP: Dry Well Peak Elev=5.50' Storage=433 cf Inflow=1.13 cfs 0.038 af
Discarded=0.04 cfs 0.018 af Primary=0.93 cfs 0.019 af Outflow=0.96 cfs 0.037 af

Pond 39fP: Dry Well Peak Elev=5.50' Storage=433 cf Inflow=0.93 cfs 0.019 af
Outflow=0.04 cfs 0.018 af

Pond 39P: Dry Well Peak Elev=5.51' Storage=435 cf Inflow=2.28 cfs 0.156 af
Discarded=0.04 cfs 0.029 af Primary=1.99 cfs 0.123 af Outflow=2.03 cfs 0.153 af

Pond 40.2P: Sediment Forebay 4 Peak Elev=259.40' Storage=696 cf Inflow=3.72 cfs 0.256 af
Outflow=3.78 cfs 0.240 af

Pond 40.3P: Detention Basin 4 Peak Elev=255.53' Storage=9,784 cf Inflow=5.10 cfs 0.675 af
Discarded=0.25 cfs 0.127 af Primary=2.78 cfs 0.455 af Secondary=0.00 cfs 0.000 af Outflow=3.03 cfs 0.582 af

Pond 46.1P: Dry Well Peak Elev=5.67' Storage=465 cf Inflow=0.22 cfs 0.016 af
Outflow=0.01 cfs 0.008 af

Pond 46P: Dry Well Peak Elev=5.67' Storage=465 cf Inflow=0.45 cfs 0.034 af
Discarded=0.01 cfs 0.010 af Primary=0.22 cfs 0.016 af Outflow=0.23 cfs 0.026 af

Pond 47aP: Dry Well Peak Elev=5.67' Storage=465 cf Inflow=0.22 cfs 0.016 af
Outflow=0.01 cfs 0.008 af

Pond 47P: Dry Well Peak Elev=5.67' Storage=465 cf Inflow=0.45 cfs 0.034 af
Discarded=0.01 cfs 0.010 af Primary=0.22 cfs 0.016 af Outflow=0.23 cfs 0.026 af

Pond 48aP: Dry Well Peak Elev=5.17' Storage=378 cf Inflow=0.23 cfs 0.015 af
Outflow=0.02 cfs 0.012 af

Pond 48P: Dry Well Peak Elev=5.17' Storage=378 cf Inflow=0.45 cfs 0.034 af
Discarded=0.02 cfs 0.016 af Primary=0.23 cfs 0.015 af Outflow=0.24 cfs 0.030 af

Pond 49aP: Dry Well Peak Elev=5.17' Storage=378 cf Inflow=0.23 cfs 0.015 af
Outflow=0.02 cfs 0.012 af

Pond 49P: Dry Well Peak Elev=5.17' Storage=378 cf Inflow=0.45 cfs 0.034 af
Discarded=0.02 cfs 0.016 af Primary=0.23 cfs 0.015 af Outflow=0.24 cfs 0.030 af

Pond 100: DMH 100 Peak Elev=263.83' Inflow=3.63 cfs 0.245 af
15.0" Round Culvert n=0.011 L=85.0' S=0.0046 '/' Outflow=3.63 cfs 0.245 af

Pond 101: DMH 101 Peak Elev=263.84' Inflow=2.09 cfs 0.141 af
12.0" Round Culvert n=0.011 L=189.0' S=0.0056 '/' Outflow=2.09 cfs 0.141 af

Pond 102: DMH 102 Peak Elev=264.10' Inflow=1.86 cfs 0.125 af
12.0" Round Culvert n=0.011 L=97.0' S=0.0052 '/' Outflow=1.86 cfs 0.125 af

Pond 103: DMH 103 Peak Elev=264.61' Inflow=1.86 cfs 0.125 af
12.0" Round Culvert n=0.011 L=79.0' S=0.0052 '/' Outflow=1.86 cfs 0.125 af

Pond 110: DMH 111 Peak Elev=271.93' Inflow=1.23 cfs 0.084 af
12.0" Round Culvert n=0.011 L=99.0' S=0.0101 '/' Outflow=1.23 cfs 0.084 af

Pond 111: DMH 110 Peak Elev=271.02' Inflow=1.90 cfs 0.128 af
12.0" Round Culvert n=0.011 L=56.0' S=0.0098 '/' Outflow=1.90 cfs 0.128 af

Pond 112: DMH 112 Peak Elev=270.36' Inflow=1.90 cfs 0.128 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.90 cfs 0.128 af

Pond 113: DMH 113 Peak Elev=269.66' Inflow=1.90 cfs 0.128 af
12.0" Round Culvert n=0.011 L=59.0' S=0.0102 '/' Outflow=1.90 cfs 0.128 af

Pond 114: DMH 114 Peak Elev=268.96' Inflow=1.90 cfs 0.128 af
12.0" Round Culvert n=0.011 L=94.0' S=0.0106 '/' Outflow=1.90 cfs 0.128 af

Pond 120: DMH 120 Peak Elev=267.77' Inflow=2.64 cfs 0.178 af
15.0" Round Culvert n=0.011 L=200.0' S=0.0275 '/' Outflow=2.64 cfs 0.178 af

Pond 121: DMH 121 Peak Elev=262.19' Inflow=3.55 cfs 0.240 af
15.0" Round Culvert n=0.011 L=108.0' S=0.0296 '/' Outflow=3.55 cfs 0.240 af

Pond 130: DMH 130 Peak Elev=260.21' Inflow=2.82 cfs 0.191 af
15.0" Round Culvert n=0.011 L=79.0' S=0.0063 '/' Outflow=2.82 cfs 0.191 af

Pond 131: DMH 131 Peak Elev=260.21' Inflow=0.89 cfs 0.060 af
12.0" Round Culvert n=0.011 L=38.0' S=0.0139 '/' Outflow=0.89 cfs 0.060 af

Pond 132: DMH 132 Peak Elev=260.22' Inflow=0.89 cfs 0.060 af
12.0" Round Culvert n=0.011 L=74.0' S=0.0147 '/' Outflow=0.89 cfs 0.060 af

Pond 133: DMH 133 Peak Elev=261.28' Inflow=0.89 cfs 0.060 af
12.0" Round Culvert n=0.011 L=93.0' S=0.0105 '/' Outflow=0.89 cfs 0.060 af

Pond 140: DMH 140 Peak Elev=260.58' Inflow=1.69 cfs 0.115 af
12.0" Round Culvert n=0.011 L=26.0' S=0.0058 '/' Outflow=1.69 cfs 0.115 af

Pond 141: DMH 141 Peak Elev=259.93' Inflow=2.23 cfs 0.151 af
12.0" Round Culvert n=0.011 L=49.0' S=0.0061 '/' Outflow=2.23 cfs 0.151 af

Pond 142: DMH 142 Peak Elev=260.33' Inflow=1.90 cfs 0.129 af
12.0" Round Culvert n=0.011 L=54.0' S=0.0056 '/' Outflow=1.90 cfs 0.129 af

Pond CB 1: Peak Elev=263.83' Inflow=0.85 cfs 0.058 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0082 '/' Outflow=0.85 cfs 0.058 af

Pond CB 10: Peak Elev=271.03' Inflow=0.28 cfs 0.018 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0100 '/' Outflow=0.28 cfs 0.018 af

Pond CB 11: Peak Elev=272.13' Inflow=0.72 cfs 0.049 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0100 '/' Outflow=0.72 cfs 0.049 af

Pond CB 12: Peak Elev=272.07' Inflow=0.52 cfs 0.035 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0131 '/' Outflow=0.52 cfs 0.035 af

Pond CB 13: Peak Elev=262.24' Inflow=0.52 cfs 0.035 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.52 cfs 0.035 af

Pond CB 14: Peak Elev=262.22' Inflow=0.40 cfs 0.026 af
12.0" Round Culvert n=0.011 L=12.0' S=0.0100 '/' Outflow=0.40 cfs 0.026 af

Pond CB 15: Peak Elev=260.21' Inflow=1.07 cfs 0.073 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0155 '/' Outflow=1.07 cfs 0.073 af

Pond CB 16: Peak Elev=260.21' Inflow=0.86 cfs 0.058 af
12.0" Round Culvert n=0.011 L=3.0' S=0.0533 '/' Outflow=0.86 cfs 0.058 af

Pond CB 17: Peak Elev=261.55' Inflow=0.52 cfs 0.035 af
12.0" Round Culvert n=0.011 L=21.0' S=0.0124 '/' Outflow=0.52 cfs 0.035 af

Pond CB 18: Peak Elev=261.49' Inflow=0.38 cfs 0.025 af
12.0" Round Culvert n=0.011 L=17.0' S=0.0153 '/' Outflow=0.38 cfs 0.025 af

Pond CB 19: Peak Elev=262.52' Inflow=0.17 cfs 0.011 af
12.0" Round Culvert n=0.011 L=40.0' S=0.0087 '/' Outflow=0.17 cfs 0.011 af

Pond CB 2: Peak Elev=263.83' Inflow=0.70 cfs 0.047 af
12.0" Round Culvert n=0.011 L=13.0' S=0.0108 '/' Outflow=0.70 cfs 0.047 af

Pond CB 20: Peak Elev=260.69' Inflow=1.05 cfs 0.072 af
12.0" Round Culvert n=0.011 L=18.0' S=0.0061 '/' Outflow=1.05 cfs 0.072 af

Pond CB 21: Peak Elev=260.63' Inflow=0.63 cfs 0.043 af
12.0" Round Culvert n=0.011 L=11.0' S=0.0100 '/' Outflow=0.63 cfs 0.043 af

Pond CB 22: Peak Elev=262.20' Inflow=0.17 cfs 0.011 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.17 cfs 0.011 af

Pond CB 3: Peak Elev=265.72' Inflow=0.13 cfs 0.009 af
12.0" Round Culvert n=0.011 L=14.0' S=0.0114 '/' Outflow=0.13 cfs 0.009 af

Pond CB 4: Peak Elev=265.69' Inflow=0.10 cfs 0.007 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0122 '/' Outflow=0.10 cfs 0.007 af

Pond CB 5: Peak Elev=264.79' Inflow=1.08 cfs 0.074 af
12.0" Round Culvert n=0.011 L=19.0' S=0.0126 '/' Outflow=1.08 cfs 0.074 af

Pond CB 6: Peak Elev=264.73' Inflow=0.77 cfs 0.051 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0160 '/' Outflow=0.77 cfs 0.051 af

Pond CB 7: Peak Elev=267.83' Inflow=0.43 cfs 0.029 af
12.0" Round Culvert n=0.011 L=9.0' S=0.0111 '/' Outflow=0.43 cfs 0.029 af

Pond CB 8: Peak Elev=267.82' Inflow=0.31 cfs 0.021 af
12.0" Round Culvert n=0.011 L=15.0' S=0.0100 '/' Outflow=0.31 cfs 0.021 af

Pond CB 9: Peak Elev=271.05' Inflow=0.39 cfs 0.026 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0100 '/' Outflow=0.39 cfs 0.026 af

Link A: Design Point Inflow=4.59 cfs 0.785 af
Primary=4.59 cfs 0.785 af

Link B: Design Point Inflow=3.79 cfs 0.357 af
Primary=3.79 cfs 0.357 af

Link C: Design Point Inflow=8.88 cfs 1.251 af
Primary=8.88 cfs 1.251 af

Summary for Subcatchment 10.1S: Flow to Sediment Forebay

Runoff = 0.58 cfs @ 12.15 hrs, Volume= 0.046 af, Depth> 1.08"
Routed to Pond 12P : Sediment Forebay 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	800	98	Pavement
*	325	98	Deck
	20,410	61	>75% Grass cover, Good, HSG B
	800	55	Woods, Good, HSG B
	22,335	63	Weighted Average
	21,210		94.96% Pervious Area
	1,125		5.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0100	0.11		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.10"
2.0	110	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
9.5	160	Total			

Summary for Subcatchment 10.3D: Lot 3 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 10.3P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 10.4D: Lot 4 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 10.4P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 10.5D: Lot 5 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 10.5P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 10S: Runoff to Wetland Pocket

Runoff = 9.55 cfs @ 12.25 hrs, Volume= 0.944 af, Depth> 1.02"
Routed to Pond 10P : Existing Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
	35,355	98	Wetlands
*	5,565	98	Pavement
*	1,725	98	Decks
*	20	98	Retaining Wall
	85,720	61	>75% Grass cover, Good, HSG B
	42,870	70	Woods, Good, HSG C
	167,345	55	Woods, Good, HSG B
*	6,765	98	Wetlands (Off-site)
	20,895	70	Woods, Good, HSG C (Off-site)
	116,305	55	Woods, Good, HSG B (Off-site)
	482,565	62	Weighted Average
	433,135		89.76% Pervious Area
	49,430		10.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	50	0.0700	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
8.6	400	0.0240	0.77		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
16.2	450	Total			

Summary for Subcatchment 11S: Flow to Roadway Culvert

Runoff = 1.37 cfs @ 12.17 hrs, Volume= 0.118 af, Depth> 0.97"
Routed to Pond 11P : FES 6 to FES 7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,410	98	Pavement
*	575	98	Decks
	40,935	61	>75% Grass cover, Good, HSG B
	19,700	55	Woods, Good, HSG B
	63,620	61	Weighted Average
	60,635		95.31% Pervious Area
	2,985		4.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
0.8	73	0.0820	1.43		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	50	0.1980	3.11		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
10.6	173	Total			

Summary for Subcatchment 12S: Flow to CB 3

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Depth> 3.01"
Routed to Pond CB 3 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	495	98	Pavement & Curbing
*	210	98	Sidewalk
*	260	61	Grass Strip, HSG B
	965	88	Weighted Average
	260		26.94% Pervious Area
	705		73.06% Impervious Area

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

Summary for Subcatchment 13S: Flow to CB 4

Runoff = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af, Depth> 2.73"
Routed to Pond CB 4 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	495	98	Pavement & Curbing
*	260	61	Grass Strip, HSG B
	755	85	Weighted Average
	260		34.44% Pervious Area
	495		65.56% Impervious Area

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

Summary for Subcatchment 14S: Flow to CB 5

Runoff = 0.70 cfs @ 12.07 hrs, Volume= 0.046 af, Depth> 3.11"
Routed to Pond CB 5 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,255	98	Pavement & Curbing
*	1,580	98	Sidewalk
*	1,960	61	Grass Strip, HSG B
	7,795	89	Weighted Average
	1,960		25.14% Pervious Area
	5,835		74.86% Impervious Area

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

Summary for Subcatchment 15S: Flow to CB 6

Runoff = 0.48 cfs @ 12.07 hrs, Volume= 0.031 af, Depth> 2.82"
Routed to Pond CB 6 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,010	98	Pavement & Curbing
*	1,825	61	Grass Strip, HSG B
	5,835	86	Weighted Average
	1,825		31.28% Pervious Area
	4,010		68.72% Impervious Area

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

Summary for Subcatchment 16S: Flow to CB 7

Runoff = 0.28 cfs @ 12.07 hrs, Volume= 0.018 af, Depth> 3.11"
Routed to Pond CB 7 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,660	98	Pavement & Curbing
*	645	98	Sidewalk
*	795	61	Grass Strip, HSG B
	3,100	89	Weighted Average
	795		25.65% Pervious Area
	2,305		74.35% Impervious Area

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

Summary for Subcatchment 17S: Flow to CB 8

Runoff = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af, Depth> 2.82"
Routed to Pond CB 8 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,585	98	Pavement & Curbing
*	750	61	Grass Strip, HSG B
	2,335	86	Weighted Average
	750		32.12% Pervious Area
	1,585		67.88% Impervious Area

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

Summary for Subcatchment 18S: Flow to CB 13

Runoff = 0.34 cfs @ 12.07 hrs, Volume= 0.022 af, Depth> 3.11"
Routed to Pond CB 13 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,020	98	Pavement & Curbing
*	755	98	Sidewalk
*	955	61	Grass Strip, HSG B
	3,730	89	Weighted Average
	955		25.60% Pervious Area
	2,775		74.40% Impervious Area

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

Summary for Subcatchment 19S: Flow to CB 14

Runoff = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af, Depth> 2.82"
Routed to Pond CB 14 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,050	98	Pavement & Curbing
*	945	61	Grass Strip, HSG B
	2,995	86	Weighted Average
	945		31.55% Pervious Area
	2,050		68.45% Impervious Area

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

Summary for Subcatchment 20.1S: Flow to Forebay

Runoff = 1.05 cfs @ 12.07 hrs, Volume= 0.069 af, Depth> 1.21"
Routed to Reach 20.1R : Overland Flow

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,755	98	Pavement
*	325	98	Deck
	26,260	61	>75% Grass cover, Good, HSG B
	300	55	Woods, Good, HSG B
	29,640	65	Weighted Average
	26,560		89.61% Pervious Area
	3,080		10.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	50	0.0440	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.10"
0.1	26	0.2070	3.18		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.3	76	Total			

Summary for Subcatchment 20.2S: Flow to Driveway Culvert

Runoff = 0.12 cfs @ 12.08 hrs, Volume= 0.008 af, Depth> 1.27"
Routed to Reach 20.2R : FES 5 to FES 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	410	98	Pavement
	2,760	61	>75% Grass cover, Good, HSG B
	3,170	66	Weighted Average
	2,760		87.07% Pervious Area
	410		12.93% Impervious Area

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

Summary for Subcatchment 20.3D: Lot 1 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 20.3P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 20.4D: Lot 2 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 20.4P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 20S: Runoff to North

Runoff = 1.43 cfs @ 12.37 hrs, Volume= 0.172 af, Depth> 0.80"
Routed to Link A : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,345	98	Pavement
*	500	98	Decks
	78,400	55	Woods, Good, HSG B
	28,980	61	>75% Grass cover, Good, HSG B
	112,225	58	Weighted Average
	107,380		95.68% Pervious Area
	4,845		4.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	100	0.0200	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
0.4	32	0.0680	1.30		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
22.2	132	Total			

Summary for Subcatchment 21.1D: Lot 13 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 21.1P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 21S: Flow to Roadway Culvert

Runoff = 1.72 cfs @ 12.31 hrs, Volume= 0.188 af, Depth> 0.91"
Routed to Pond 31AP : FES 1 to FES 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	5,870	98	Pavement
*	575	98	Decks
	44,815	61	>75% Grass cover, Good, HSG B
	56,745	55	Woods, Good, HSG B
	108,005	60	Weighted Average
	101,560		94.03% Pervious Area
	6,445		5.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	50	0.0200	0.07		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
6.4	345	0.0318	0.89		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.2	36	0.2306	3.36		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
19.1	431	Total			

Summary for Subcatchment 22S: Flow to CB 1

Runoff = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af, Depth> 3.11"
Routed to Pond CB 1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	3,465	98	Pavement & Curbing
*	1,175	98	Sidewalk
	1,470	61	Grass Strip, HSG B
	6,110	89	Weighted Average
	1,470		24.06% Pervious Area
	4,640		75.94% Impervious Area

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

Summary for Subcatchment 23S: Flow to CB 2

Runoff = 0.45 cfs @ 12.07 hrs, Volume= 0.029 af, Depth> 3.01"
Routed to Pond CB 2 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	3,690	98	Pavement & Curbing
*	1,400	61	Grass Strip, HSG B
	5,090	88	Weighted Average
	1,400		27.50% Pervious Area
	3,690		72.50% Impervious Area

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

Summary for Subcatchment 24S: Flow to CB 15

Runoff = 0.69 cfs @ 12.07 hrs, Volume= 0.046 af, Depth> 3.11"
Routed to Pond CB 15 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,195	98	Pavement & Curbing
*	1,535	98	Sidewalk
*	1,940	61	Grass Strip, HSG B
	7,670	89	Weighted Average
	1,940		25.29% Pervious Area
	5,730		74.71% Impervious Area

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

Summary for Subcatchment 25S: Flow to CB 16

Runoff = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af, Depth> 3.01"
Routed to Pond CB 16 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,275	98	Pavement & Curbing
*	805	74	Grass Strip, HSG C
*	1,235	61	Grass Strip, HSG B
	6,315	88	Weighted Average
	2,040		32.30% Pervious Area
	4,275		67.70% Impervious Area

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

Summary for Subcatchment 26.1S: Flow to Driveway Culvert

Runoff = 0.79 cfs @ 12.21 hrs, Volume= 0.069 af, Depth> 1.89"
Routed to Reach 26.1R : FES 9 to FES 8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,710	98	Ledge Outcrop
*	1,480	98	Pavement
*	250	98	Deck
	4,425	74	>75% Grass cover, Good, HSG C
	2,330	61	>75% Grass cover, Good, HSG B
	5,625	70	Woods, Good, HSG C
	2,325	55	Woods, Good, HSG B
	19,145	75	Weighted Average
	14,705		76.81% Pervious Area
	4,440		23.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	50	0.0300	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
3.8	240	0.0437	1.05		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	34	0.0781	1.96		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.8	324	Total			

Summary for Subcatchment 26.2D: Lot 10 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 26.2P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 26S: Flow to Roadway Culvert

Runoff = 3.09 cfs @ 12.19 hrs, Volume= 0.260 af, Depth> 1.89"
Routed to Pond 26P : FES 18 to FES 19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	11,700	98	Ledge Outcrop
*	650	98	Decks
*	2,130	98	Pavement
	26,475	74	>75% Grass cover, Good, HSG C
	12,115	61	>75% Grass cover, Good, HSG B
	17,795	70	Woods, Good, HSG C
	1,065	55	Woods, Good, HSG B
	71,930	75	Weighted Average
	57,450		79.87% Pervious Area
	14,480		20.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	50	0.0460	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
3.1	250	0.0728	1.35		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.4	160	0.0750	1.92		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
13.5	460	Total			

Summary for Subcatchment 27S: Flow to Roadway Culvert

Runoff = 0.72 cfs @ 12.16 hrs, Volume= 0.060 af, Depth> 1.08"
Routed to Pond 27P : FES 21 to FES 22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,020	98	Pavement
*	325	98	Deck
	2,485	74	>75% Grass cover, Good, HSG C
	13,400	61	>75% Grass cover, Good, HSG B
	10,410	55	Woods, Good, HSG B
	170	70	Woods, Good, HSG C
	28,810	63	Weighted Average
	26,465		91.86% Pervious Area
	2,345		8.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	50	0.0700	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
1.3	103	0.0700	1.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.5	42	0.0043	0.46		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
10.4	195	Total			

Summary for Subcatchment 28S: Flow to CB 17

Runoff = 0.33 cfs @ 12.07 hrs, Volume= 0.022 af, Depth> 3.11"
Routed to Pond CB 17 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,995	98	Pavement & Curbing
*	770	98	Sidewalk
*	950	61	Grass Strip, HSG B
	3,715	89	Weighted Average
	950		25.57% Pervious Area
	2,765		74.43% Impervious Area

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

Summary for Subcatchment 29S: Flow to CB 18

Runoff = 0.24 cfs @ 12.07 hrs, Volume= 0.015 af, Depth> 2.82"
Routed to Pond CB 18 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,945	98	Pavement & Curbing
*	895	61	Grass Strip, HSG B
	2,840	86	Weighted Average
	895		31.51% Pervious Area
	1,945		68.49% Impervious Area

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

Summary for Subcatchment 30S: Runoff to Southeast

Runoff = 1.61 cfs @ 12.27 hrs, Volume= 0.164 af, Depth> 1.02"
Routed to Link B : Design Point

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
	4,310	98	Pavement
*	500	98	Decks
	12,350	61	>75% Grass cover, Good, HSG B
	21,845	70	Woods, Good, HSG C
	44,905	55	Woods, Good, HSG B
	83,910	62	Weighted Average
	79,100		94.27% Pervious Area
	4,810		5.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	50	0.0400	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
8.0	403	0.0285	0.84		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
17.5	453	Total			

Summary for Subcatchment 31S: Flow to Dry Well

Runoff = 0.66 cfs @ 12.08 hrs, Volume= 0.044 af, Depth> 1.33"
Routed to Pond 39P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,170	98	Pavement
	650	98	Decks
	14,330	61	>75% Grass cover, Good, HSG B
	17,150	67	Weighted Average
	14,330		83.56% Pervious Area
	2,820		16.44% Impervious Area

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

Summary for Subcatchment 35S: Flow to CB 9

Runoff = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af, Depth> 3.01"
Routed to Pond CB 9 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,485	98	Pavement & Curbing
*	595	98	Sidewalk
*	735	61	Grass Strip, HSG B
	2,815	88	Weighted Average
	735		26.11% Pervious Area
	2,080		73.89% Impervious Area

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

Summary for Subcatchment 36S: Flow to CB 10

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.011 af, Depth> 2.82"
Routed to Pond CB 10 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,425	98	Pavement & Curbing
*	660	61	Grass Strip, HSG B
	2,085	86	Weighted Average
	660		31.65% Pervious Area
	1,425		68.35% Impervious Area

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

Summary for Subcatchment 37S: Flow to CB 11

Runoff = 0.47 cfs @ 12.07 hrs, Volume= 0.031 af, Depth> 3.21"
Routed to Pond CB 11 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	3,135	98	Pavement & Curbing
*	870	98	Sidewalk
*	1,075	61	Grass Strip, HSG B
	5,080	90	Weighted Average
	1,075		21.16% Pervious Area
	4,005		78.84% Impervious Area

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

Summary for Subcatchment 38S: Flow to CB 12

Runoff = 0.33 cfs @ 12.07 hrs, Volume= 0.021 af, Depth> 2.92"
Routed to Pond CB 12 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,720	98	Pavement & Curbing
*	1,120	61	Grass Strip, HSG B
	3,840	87	Weighted Average
	1,120		29.17% Pervious Area
	2,720		70.83% Impervious Area

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

Summary for Subcatchment 39.1D: Duplex (Right)

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 39P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 39.2D: Lot 12 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 39.2P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 39D: Duplex (Left)

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 39P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 40.1S: Flow to Driveway Culvert

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af, Depth> 1.03"
Routed to Reach 40.1R : FES 23 to FES 24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	240	98	Pavement
	5,520	61	>75% Grass cover, Good, HSG B
	210	55	Woods, Good, HSG B
	5,970	62	Weighted Average
	5,730		95.98% Pervious Area
	240		4.02% Impervious Area

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

Summary for Subcatchment 40.2S: Runoff to Southwest

Runoff = 1.62 cfs @ 12.47 hrs, Volume= 0.200 af, Depth> 1.02"
Routed to Pond 40.3P : Detention Basin 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	3,130	98	Pavement
*	500	98	Decks
	7,740	74	>75% Grass cover, Good, HSG C
	30,990	61	>75% Grass cover, Good, HSG B
	18,140	70	Woods, Good, HSG C
	42,280	55	Woods, Good, HSG B
	102,780	62	Weighted Average
	99,150		96.47% Pervious Area
	3,630		3.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.6	100	0.0300	0.09		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
10.1	655	0.0469	1.08		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
28.7	755	Total			

Summary for Subcatchment 40S&46S: Runoff to West and Northwest

Runoff = 2.98 cfs @ 12.44 hrs, Volume= 0.361 af, Depth> 1.07"
Routed to Reach 40R : Drainage Channel 5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Adj	Description
	250	98		Ledge Outcrops
*	1,285	98		Pavement
*	575	98		Decks
	1,810	80		>75% Grass cover, Good, HSG D
	23,380	61		>75% Grass cover, Good, HSG B
	3,440	77		Woods, Good, HSG D
	44,570	55		Woods, Good, HSG B
	5,345	98		Unconnected pavement, HSG A
	20,550	77		Woods, Good, HSG D
	36,470	55		Woods, Good, HSG B
	14,960	80		>75% Grass cover, Good, HSG D
	22,895	61		>75% Grass cover, Good, HSG B
	175,530	64	63	Weighted Average, UI Adjusted
	168,075			95.75% Pervious Area
	7,455			4.25% Impervious Area
	5,345			71.70% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	73	0.0100	0.08		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.10"
10.1	27	0.0100	0.04		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
3.2	173	0.0318	0.89		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
28.2	273	Total			

Summary for Subcatchment 41.1S: Flow to Forebay

Runoff = 0.66 cfs @ 12.11 hrs, Volume= 0.048 af, Depth> 1.03"
Routed to Pond 40.2P : Sediment Forebay 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	1,635	98	Pavement
	15,080	61	>75% Grass cover, Good, HSG B
	7,690	55	Woods, Good, HSG B
	24,405	62	Weighted Average
	22,770		93.30% Pervious Area
	1,635		6.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	42	0.3690	0.45		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.10"
2.9	8	0.0200	0.05		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 3.10"
2.0	114	0.0350	0.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
6.4	164	Total			

Summary for Subcatchment 41S: Flow to CB 19

Runoff = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af, Depth> 3.11"
Routed to Pond CB 19 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	685	98	Pavement & Curbing
*	220	98	Sidewalk
*	290	61	Grass Strip, HSG B
	1,195	89	Weighted Average
	290		24.27% Pervious Area
	905		75.73% Impervious Area

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

Summary for Subcatchment 42S: Flow to CB 20

Runoff = 0.68 cfs @ 12.07 hrs, Volume= 0.045 af, Depth> 3.11"
Routed to Pond CB 20 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	4,155	98	Pavement & Curbing
*	1,570	98	Sidewalk
*	1,850	61	Grass Strip, HSG B
	7,575	89	Weighted Average
	1,850		24.42% Pervious Area
	5,725		75.58% Impervious Area

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

Summary for Subcatchment 43S: Flow to CB 21

Runoff = 0.41 cfs @ 12.07 hrs, Volume= 0.027 af, Depth> 3.11"
Routed to Pond CB 21 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	3,435	98	Pavement
*	1,115	61	Grass Strip, HSG B
	4,550	89	Weighted Average
	1,115		24.51% Pervious Area
	3,435		75.49% Impervious Area

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

Summary for Subcatchment 44S: Flow to CB 22

Runoff = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af, Depth> 3.01"
Routed to Pond CB 22 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	805	98	Pavement & Curbing
*	70	98	Sidewalk
*	345	61	Grass Strip, HSG B
	1,220	88	Weighted Average
	345		28.28% Pervious Area
	875		71.72% Impervious Area

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

Summary for Subcatchment 45S: Flow from Cul-de-sac

Runoff = 0.09 cfs @ 12.09 hrs, Volume= 0.006 af, Depth> 0.97"
Routed to Pond 20P : FES 25 to DMH 142

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

Area (sf)	CN	Description
3,420	61	>75% Grass cover, Good, HSG B
3,420		100.00% Pervious Area

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

Summary for Subcatchment 46D: Lot 6 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 46P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 47D: Lot 7 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 47P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 48D: Lot 8 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 48P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Subcatchment 49D: Lot 9 House

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af, Depth> 4.07"
Routed to Pond 49P : Dry Well

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.50"

	Area (sf)	CN	Description
*	2,955	98	Building
	2,955		100.00% Impervious Area

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

Summary for Reach 11R: Overland Flow

Inflow Area = 1.461 ac, 4.69% Impervious, Inflow Depth > 0.97" for 10-year event
Inflow = 1.37 cfs @ 12.17 hrs, Volume= 0.118 af
Outflow = 1.33 cfs @ 12.20 hrs, Volume= 0.117 af, Atten= 3%, Lag= 1.7 min
Routed to Pond 10P : Existing Wetland

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.05 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 0.88 fps, Avg. Travel Time= 5.5 min

Peak Storage= 188 cf @ 12.20 hrs
Average Depth at Peak Storage= 0.11' , Surface Width= 7.14'
Bank-Full Depth= 1.00' Flow Area= 15.0 sf, Capacity= 107.72 cfs

5.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 10.0 '/' Top Width= 25.00'
Length= 290.0' Slope= 0.0418 '/'
Inlet Invert= 263.00', Outlet Invert= 250.89'

‡

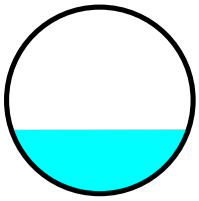
Summary for Reach 13R: Overland Flow

Inflow Area = 3.671 ac, 33.58% Impervious, Inflow Depth > 1.40" for 10-year event
Inflow = 0.92 cfs @ 13.15 hrs, Volume= 0.428 af
Outflow = 0.92 cfs @ 13.15 hrs, Volume= 0.428 af, Atten= 0%, Lag= 0.1 min
Routed to Pond 10P : Existing Wetland

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.88 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 3.46 fps, Avg. Travel Time= 0.2 min

Peak Storage= 10 cf @ 13.15 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 0.95'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 3.65 cfs

12.0" Round Pipe
n= 0.011 Concrete pipe, straight & clean
Length= 40.0' Slope= 0.0075 '/'
Inlet Invert= 257.80', Outlet Invert= 257.50'



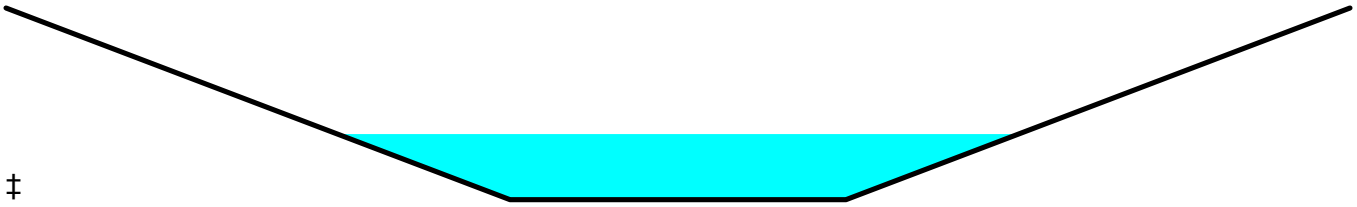
Summary for Reach 20.1R: Overland Flow

Inflow Area = 0.753 ac, 10.64% Impervious, Inflow Depth > 1.21" for 10-year event
Inflow = 1.16 cfs @ 12.07 hrs, Volume= 0.076 af
Outflow = 1.10 cfs @ 12.10 hrs, Volume= 0.076 af, Atten= 5%, Lag= 1.6 min
Routed to Pond 21P : Sediment Forebay 2

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.07 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 0.43 fps, Avg. Travel Time= 5.2 min

Peak Storage= 140 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 4.05'
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 9.60 cfs

2.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 8.00'
Length= 135.0' Slope= 0.0030 '/'
Inlet Invert= 264.40', Outlet Invert= 264.00'



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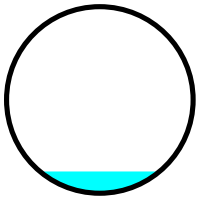
Summary for Reach 20.2R: FES 5 to FES 4

Inflow Area = 0.073 ac, 12.93% Impervious, Inflow Depth > 1.27" for 10-year event
Inflow = 0.12 cfs @ 12.08 hrs, Volume= 0.008 af
Outflow = 0.12 cfs @ 12.09 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.2 min
Routed to Reach 20.1R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.26 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 0.96 fps, Avg. Travel Time= 0.8 min

Peak Storage= 2 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.12' , Surface Width= 0.64'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.01 cfs

12.0" Round Pipe
n= 0.011 Concrete pipe, straight & clean
Length= 44.0' Slope= 0.0091 '/'
Inlet Invert= 264.80', Outlet Invert= 264.40'



Summary for Reach 21R: Overland Flow

Inflow Area = 0.973 ac, 29.68% Impervious, Inflow Depth > 1.54" for 10-year event
Inflow = 2.15 cfs @ 12.09 hrs, Volume= 0.125 af
Outflow = 1.98 cfs @ 12.10 hrs, Volume= 0.124 af, Atten= 8%, Lag= 0.5 min
Routed to Pond 40.3P : Detention Basin 4

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.25 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 0.84 fps, Avg. Travel Time= 3.4 min

Peak Storage= 149 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 4.42'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 29.91 cfs

3.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 9.00'
Length= 170.0' Slope= 0.0182 '/'
Inlet Invert= 259.00', Outlet Invert= 255.90'

‡

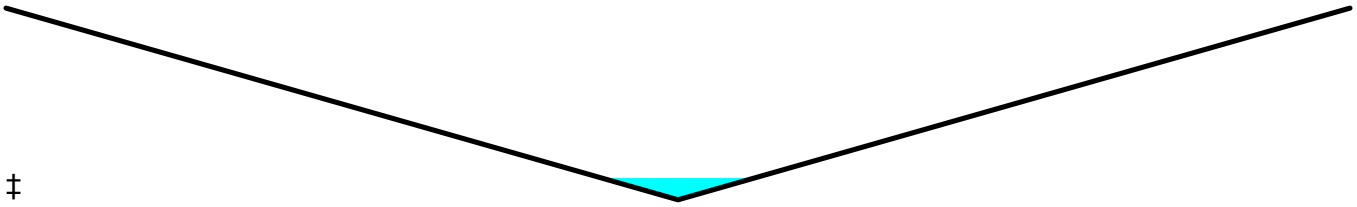
Summary for Reach 22R: Overland Flow

Inflow Area = 3.842 ac, 17.51% Impervious, Inflow Depth = 0.12" for 10-year event
Inflow = 0.14 cfs @ 14.68 hrs, Volume= 0.039 af
Outflow = 0.14 cfs @ 14.69 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.1 min
Routed to Link A : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.77 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 2.19 fps, Avg. Travel Time= 0.2 min

Peak Storage= 1 cf @ 14.69 hrs
Average Depth at Peak Storage= 0.11' , Surface Width= 0.91'
Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 47.08 cfs

0.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 4.0 '/' Top Width= 8.00'
Length= 27.0' Slope= 0.1481 '/'
Inlet Invert= 258.00', Outlet Invert= 254.00'



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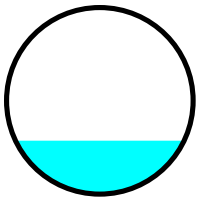
Summary for Reach 26.1R: FES 9 to FES 8

Inflow Area = 0.440 ac, 23.19% Impervious, Inflow Depth > 1.89" for 10-year event
Inflow = 0.79 cfs @ 12.21 hrs, Volume= 0.069 af
Outflow = 0.79 cfs @ 12.21 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.1 min
Routed to Reach 26.2R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 4.28 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.85 fps, Avg. Travel Time= 0.4 min

Peak Storage= 8 cf @ 12.21 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 0.90'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.44 cfs

12.0" Round Pipe
n= 0.011 Concrete pipe, straight & clean
Length= 45.0' Slope= 0.0111 '/'
Inlet Invert= 276.50', Outlet Invert= 276.00'



Summary for Reach 26.2R: Overland Flow

Inflow Area = 0.440 ac, 23.19% Impervious, Inflow Depth > 1.89" for 10-year event
Inflow = 0.79 cfs @ 12.21 hrs, Volume= 0.069 af
Outflow = 0.78 cfs @ 12.24 hrs, Volume= 0.069 af, Atten= 2%, Lag= 1.7 min
Routed to Pond 26P : FES 18 to FES 19

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.51 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 0.95 fps, Avg. Travel Time= 6.5 min

Peak Storage= 115 cf @ 12.24 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 2.78'
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 38.89 cfs

2.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 8.00'
Length= 370.0' Slope= 0.0486 '/'
Inlet Invert= 276.00', Outlet Invert= 258.00'

‡

Summary for Reach 27R: Overland Flow

Inflow Area = 0.661 ac, 8.14% Impervious, Inflow Depth > 1.08" for 10-year event
Inflow = 0.72 cfs @ 12.16 hrs, Volume= 0.060 af
Outflow = 0.69 cfs @ 12.19 hrs, Volume= 0.059 af, Atten= 4%, Lag= 2.1 min
Routed to Pond 10P : Existing Wetland

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.44 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 0.60 fps, Avg. Travel Time= 6.9 min

Peak Storage= 119 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.08' , Surface Width= 6.64'
Bank-Full Depth= 1.00' Flow Area= 15.0 sf, Capacity= 88.90 cfs

5.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 10.0 '/' Top Width= 25.00'
Length= 250.0' Slope= 0.0284 '/'
Inlet Invert= 258.00', Outlet Invert= 250.89'

‡

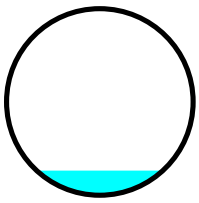
Summary for Reach 40.1R: FES 23 to FES 24

Inflow Area = 0.137 ac, 4.02% Impervious, Inflow Depth > 1.03" for 10-year event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af
Outflow = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.2 min
Routed to Reach 40.2R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.76 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 1.23 fps, Avg. Travel Time= 0.6 min

Peak Storage= 3 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 0.68'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 4.54 cfs

12.0" Round Pipe
n= 0.011 Concrete pipe, straight & clean
Length= 43.0' Slope= 0.0116 '/'
Inlet Invert= 261.50', Outlet Invert= 261.00'



Summary for Reach 40.2R: Overland Flow

Inflow Area = 0.137 ac, 4.02% Impervious, Inflow Depth > 1.03" for 10-year event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.012 af
Outflow = 0.15 cfs @ 12.13 hrs, Volume= 0.012 af, Atten= 9%, Lag= 2.2 min
Routed to Link C : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.36 fps, Min. Travel Time= 3.4 min
Avg. Velocity = 0.57 fps, Avg. Travel Time= 8.2 min

Peak Storage= 31 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.05' , Surface Width= 2.31'
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 36.50 cfs

2.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 8.00'
Length= 280.0' Slope= 0.0429 '/'
Inlet Invert= 261.00', Outlet Invert= 249.00'

‡

Summary for Reach 40.3R: Overland Flow

Inflow Area = 3.332 ac, 11.16% Impervious, Inflow Depth = 0.46" for 10-year event
Inflow = 0.68 cfs @ 13.04 hrs, Volume= 0.129 af
Outflow = 0.68 cfs @ 13.04 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.2 min
Routed to Link C : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.61 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 1.05 fps, Avg. Travel Time= 0.4 min

Peak Storage= 11 cf @ 13.04 hrs
Average Depth at Peak Storage= 0.07' , Surface Width= 6.54'
Bank-Full Depth= 2.00' Flow Area= 28.0 sf, Capacity= 321.00 cfs

6.00' x 2.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 4.0 '/' Top Width= 22.00'
Length= 25.0' Slope= 0.0400 '/'
Inlet Invert= 250.00', Outlet Invert= 249.00'

‡

Summary for Reach 40R: Drainage Channel 5

Inflow Area = 4.030 ac, 4.25% Impervious, Inflow Depth > 1.07" for 10-year event
Inflow = 2.98 cfs @ 12.44 hrs, Volume= 0.361 af
Outflow = 2.94 cfs @ 12.49 hrs, Volume= 0.358 af, Atten= 1%, Lag= 2.7 min
Routed to Link C : Design Point

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.33 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 0.60 fps, Avg. Travel Time= 8.4 min

Peak Storage= 664 cf @ 12.49 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 11.25'
Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 44.03 cfs

10.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 16.00'
Length= 300.0' Slope= 0.0063 '/'
Inlet Invert= 249.90', Outlet Invert= 248.00'

‡

Summary for Reach TS 2: Drainage Channel 2

Inflow Area = 3.842 ac, 17.51% Impervious, Inflow Depth = 0.12" for 10-year event
Inflow = 0.14 cfs @ 14.67 hrs, Volume= 0.039 af
Outflow = 0.14 cfs @ 14.68 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.8 min
Routed to Reach 22R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.13 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 0.84 fps, Avg. Travel Time= 2.0 min

Peak Storage= 13 cf @ 14.68 hrs
Average Depth at Peak Storage= 0.04' , Surface Width= 3.24'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 43.75 cfs

3.00' x 1.00' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 9.00'
Length= 100.0' Slope= 0.0390 '/'
Inlet Invert= 262.00', Outlet Invert= 258.10'

‡

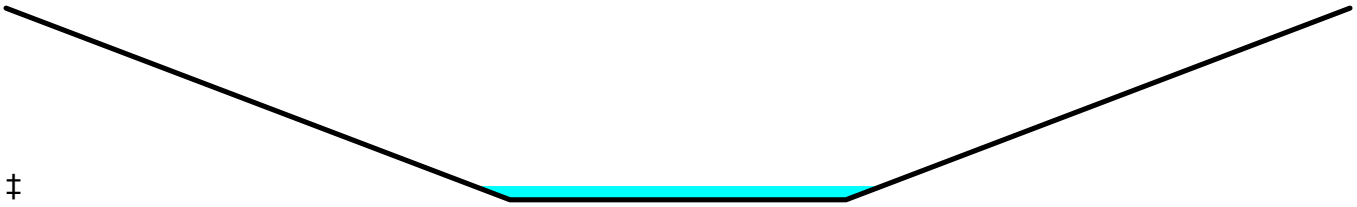
Summary for Reach TS 4: Drainage Channel 4

Inflow Area = 3.332 ac, 11.16% Impervious, Inflow Depth = 0.46" for 10-year event
Inflow = 0.68 cfs @ 13.03 hrs, Volume= 0.129 af
Outflow = 0.68 cfs @ 13.04 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.7 min
Routed to Reach 40.3R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.90 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 1.18 fps, Avg. Travel Time= 1.7 min

Peak Storage= 44 cf @ 13.04 hrs
Average Depth at Peak Storage= 0.11' , Surface Width= 3.64'
Bank-Full Depth= 1.50' Flow Area= 11.3 sf, Capacity= 94.12 cfs

3.00' x 1.50' deep channel, n= 0.030 Earth, grassed & winding
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 122.0' Slope= 0.0328 '/'
Inlet Invert= 254.00', Outlet Invert= 250.00'



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Summary for Pond 1P: Construction Condition Sediment Forebay 4

Volume	Invert	Avail.Storage	Storage Description
#1	256.00'	10,152 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.00	145	50.0	0	0	145
258.00	2,500	265.0	2,165	2,165	5,544
260.00	5,705	385.0	7,988	10,152	11,785

Summary for Pond 2P: OS 2 to FES 30

Device	Routing	Invert	Outlet Devices
#1	Primary	262.40'	**12.0" Round Culvert** L= 21.0' Ke= 0.500 Inlet / Outlet Invert= 262.40' / 262.00' S= 0.0190 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=0.00' (Free Discharge)
↑—**1=Culvert** (Controls 0.00 cfs)

Summary for Pond 10.3aP: Dry Well

Used Deep Hole 32

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 0.93" for 10-year event
Inflow = 0.25 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.04 cfs @ 12.40 hrs, Volume= 0.005 af, Atten= 84%, Lag= 18.8 min
Discarded = 0.04 cfs @ 12.40 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.34' @ 12.40 hrs Surf.Area= 89 sf Storage= 151 cf

Plug-Flow detention time= 47.4 min calculated for 0.005 af (100% of inflow)
Center-of-Mass det. time= 47.4 min (779.4 - 732.0)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**20.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.04 cfs @ 12.40 hrs HW=3.34' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Summary for Pond 10.3P: Dry Well

Used Deep Hole 32

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.023 af, Atten= 4%, Lag= 1.3 min
Discarded = 0.04 cfs @ 12.09 hrs, Volume= 0.018 af
Primary = 0.25 cfs @ 12.09 hrs, Volume= 0.005 af
Routed to Pond 10.3aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.46' @ 12.09 hrs Surf.Area= 94 sf Storage= 162 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 26.6 min (748.1 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**20.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.04 cfs @ 12.09 hrs HW=3.46' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=3.46' TW=2.07' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.25 cfs @ 1.07 fps)

Summary for Pond 10.4P: Dry Well

Used Deep Hole 41

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.023 af, Atten= 3%, Lag= 1.2 min
Discarded = 0.03 cfs @ 12.50 hrs, Volume= 0.016 af
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.007 af
Routed to Pond 14P : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.75' @ 12.50 hrs Surf.Area= 104 sf Storage= 191 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 45.6 min (767.0 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**12.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.50 hrs HW=3.75' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=3.47' TW=2.77' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.27 cfs @ 1.11 fps)

Summary for Pond 10.5aP: Dry Well

Used Deep Hole 43

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 1.73" for 10-year event
Inflow = 0.19 cfs @ 12.05 hrs, Volume= 0.010 af
Outflow = 0.01 cfs @ 12.86 hrs, Volume= 0.008 af, Atten= 92%, Lag= 49.0 min
Discarded = 0.01 cfs @ 12.86 hrs, Volume= 0.008 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.36' @ 12.86 hrs Surf.Area= 127 sf Storage= 262 cf

Plug-Flow detention time= 201.6 min calculated for 0.008 af (79% of inflow)
Center-of-Mass det. time= 159.5 min (928.0 - 768.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.500 in/hr Exfiltration over Wetted area**

Discarded OutFlow Max=0.01 cfs @ 12.86 hrs HW=4.36' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.01 cfs)

Summary for Pond 10.5P: Dry Well

Used Deep Hole 43

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.20 cfs @ 12.05 hrs, Volume= 0.021 af, Atten= 37%, Lag= 0.0 min
Discarded = 0.01 cfs @ 12.87 hrs, Volume= 0.011 af
Primary = 0.19 cfs @ 12.05 hrs, Volume= 0.010 af
Routed to Pond 10.5aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.36' @ 12.87 hrs Surf.Area= 127 sf Storage= 262 cf

Plug-Flow detention time= 108.0 min calculated for 0.020 af (89% of inflow)
Center-of-Mass det. time= 70.7 min (792.1 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.500 in/hr Exfiltration over Wetted area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 0.00' S= 0.0577 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 12.87 hrs HW=4.36' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.10 cfs @ 12.05 hrs HW=3.42' TW=3.39' (Dynamic Tailwater)
└**2=Culvert** (Outlet Controls 0.10 cfs @ 0.46 fps)

Summary for Pond 10P: Existing Wetland

Inflow Area = 16.872 ac, 14.76% Impervious, Inflow Depth > 1.10" for 10-year event
Inflow = 11.92 cfs @ 12.25 hrs, Volume= 1.548 af
Outflow = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 249.99' @ 20.00 hrs Surf.Area= 66,289 sf Storage= 67,428 cf

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	248.00'	219,438 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
248.00	9,835	415.0	0	0	9,835
250.00	66,705	1,150.0	68,102	68,102	101,384
252.00	85,000	1,500.0	151,336	219,438	175,240

Summary for Pond 11P: FES 6 to FES 7

Inflow Area = 1.461 ac, 4.69% Impervious, Inflow Depth > 0.97" for 10-year event
Inflow = 1.37 cfs @ 12.17 hrs, Volume= 0.118 af
Outflow = 1.37 cfs @ 12.17 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min
Primary = 1.37 cfs @ 12.17 hrs, Volume= 0.118 af
Routed to Reach 11R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 264.52' @ 12.17 hrs
Flood Elev= 268.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.90'	**12.0" Round Culvert** L= 130.0' Ke= 0.500 Inlet / Outlet Invert= 263.90' / 263.00' S= 0.0069 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.37 cfs @ 12.17 hrs HW=264.52' TW=263.10' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 1.37 cfs @ 2.68 fps)

Summary for Pond 12P: Sediment Forebay 3

Inflow Area = 3.671 ac, 33.58% Impervious, Inflow Depth > 2.11" for 10-year event
Inflow = 7.18 cfs @ 12.11 hrs, Volume= 0.644 af
Outflow = 7.17 cfs @ 12.11 hrs, Volume= 0.625 af, Atten= 0%, Lag= 0.0 min
Primary = 7.17 cfs @ 12.11 hrs, Volume= 0.625 af
Routed to Pond 13P : Detention Basin 3

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.27' @ 13.16 hrs Surf.Area= 940 sf Storage= 821 cf

Plug-Flow detention time= 18.7 min calculated for 0.625 af (97% of inflow)
Center-of-Mass det. time= 7.6 min (800.8 - 793.2)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	821 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	707	109.0	0	0	707
258.00	940	124.0	821	821	1,009

Device	Routing	Invert	Outlet Devices
#1	Primary	257.95'	**10.0' long x 4.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=6.45 cfs @ 12.11 hrs HW=258.51' TW=258.42' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 6.45 cfs @ 1.14 fps)

Summary for Pond 13P: Detention Basin 3

Inflow Area = 3.671 ac, 33.58% Impervious, Inflow Depth > 2.04" for 10-year event
Inflow = 7.17 cfs @ 12.11 hrs, Volume= 0.625 af
Outflow = 0.92 cfs @ 13.15 hrs, Volume= 0.428 af, Atten= 87%, Lag= 62.7 min
Primary = 0.92 cfs @ 13.15 hrs, Volume= 0.428 af
Routed to Reach 13R : Overland Flow
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af
Routed to Reach 13R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.27' @ 13.15 hrs Surf.Area= 10,689 sf Storage= 14,935 cf

Plug-Flow detention time= 197.5 min calculated for 0.428 af (68% of inflow)
Center-of-Mass det. time= 128.8 min (929.6 - 800.8)

Volume	Invert	Avail.Storage	Storage Description
#1	257.20'	50,880 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.20	2,868	355.0	0	0	2,868
258.00	6,954	571.0	3,810	3,810	18,789
260.00	13,194	557.0	19,818	23,628	20,478
261.70	19,046	701.0	27,252	50,880	34,933

Device	Routing	Invert	Outlet Devices
#1	Primary	258.20'	**12.0" Round ASB - Culvert** L= 40.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 258.20' / 257.80' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	257.80'	**2.0" W x 27.4" H Vert. ASB - Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	260.40'	**24.0" x 24.0" Horiz. ASB - Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	261.65'	**10.0' long x 5.0' breadth ASB - Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.92 cfs @ 13.15 hrs HW=259.27' TW=258.14' (Dynamic Tailwater)
- **1=ASB - Culvert** (Passes 0.92 cfs of 2.82 cfs potential flow)
  - **2=ASB - Orifice** (Orifice Controls 0.92 cfs @ 3.77 fps)
  - **3=ASB - Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=257.20' TW=257.80' (Dynamic Tailwater)
- **4=ASB - Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Summary for Pond 14P: Dry Well

Used Deep Hole 41

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 1.21" for 10-year event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.007 af
Outflow = 0.03 cfs @ 12.49 hrs, Volume= 0.007 af, Atten= 89%, Lag= 24.3 min
Discarded = 0.03 cfs @ 12.49 hrs, Volume= 0.007 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.75' @ 12.49 hrs Surf.Area= 104 sf Storage= 191 cf

Plug-Flow detention time= 86.9 min calculated for 0.007 af (100% of inflow)
Center-of-Mass det. time= 87.0 min (825.0 - 738.0)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**12.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.03 cfs @ 12.49 hrs HW=3.75' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Summary for Pond 20.3aP: Dry Well

Used Deep Hole 2.1

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 1.86" for 10-year event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.010 af
Outflow = 0.01 cfs @ 13.66 hrs, Volume= 0.006 af, Atten= 94%, Lag= 95.5 min
Discarded = 0.01 cfs @ 13.66 hrs, Volume= 0.006 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.67' @ 13.66 hrs Surf.Area= 140 sf Storage= 302 cf

Plug-Flow detention time= 232.4 min calculated for 0.006 af (55% of inflow)
Center-of-Mass det. time= 169.1 min (941.0 - 771.9)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.800 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.01 cfs @ 13.66 hrs HW=4.67' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 20.3P: Dry Well

Used Deep Hole 2.1

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.018 af, Atten= 46%, Lag= 0.0 min
Discarded = 0.01 cfs @ 13.67 hrs, Volume= 0.008 af
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.010 af
Routed to Pond 20.3aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.67' @ 13.67 hrs Surf.Area= 140 sf Storage= 302 cf

Plug-Flow detention time= 130.4 min calculated for 0.018 af (79% of inflow)
Center-of-Mass det. time= 72.4 min (793.9 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.800 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 63.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 13.67 hrs HW=4.67' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=3.70' TW=3.73' (Dynamic Tailwater)
└**2=Culvert** (Controls 0.00 cfs)

Summary for Pond 20.4aP: Dry Well

Used Deep Hole 20

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 0.90" for 10-year event
Inflow = 0.25 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.03 cfs @ 12.43 hrs, Volume= 0.005 af, Atten= 87%, Lag= 20.4 min
Discarded = 0.03 cfs @ 12.43 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.41' @ 12.43 hrs Surf.Area= 92 sf Storage= 157 cf

Plug-Flow detention time= 63.4 min calculated for 0.005 af (100% of inflow)
Center-of-Mass det. time= 63.5 min (795.2 - 731.8)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**15.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.03 cfs @ 12.43 hrs HW=3.41' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Summary for Pond 20.4P: Dry Well

Used Deep Hole 20

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.023 af, Atten= 4%, Lag= 1.3 min
Discarded = 0.04 cfs @ 12.09 hrs, Volume= 0.018 af
Primary = 0.25 cfs @ 12.09 hrs, Volume= 0.005 af
Routed to Pond 20.4aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 3.45' @ 12.09 hrs Surf.Area= 93 sf Storage= 161 cf

Plug-Flow detention time= 28.6 min calculated for 0.023 af (100% of inflow)
Center-of-Mass det. time= 28.6 min (750.1 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**15.000 in/hr Exfiltration over Wetted area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.04 cfs @ 12.09 hrs HW=3.45' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=3.45' TW=2.13' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.25 cfs @ 1.08 fps)

Summary for Pond 20P: FES 25 to DMH 142

Inflow Area = 0.079 ac, 0.00% Impervious, Inflow Depth > 0.97" for 10-year event
Inflow = 0.09 cfs @ 12.09 hrs, Volume= 0.006 af
Outflow = 0.09 cfs @ 12.09 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.09 hrs, Volume= 0.006 af
Routed to Pond 142 : DMH 142

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 260.41' @ 12.09 hrs
Flood Elev= 264.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	260.27'	**12.0" Round Culvert** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 260.27' / 260.08' S= 0.0106 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=260.41' TW=260.07' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.09 cfs @ 1.96 fps)

Summary for Pond 21.1aP: Dry Well

Used Deep Hole 130

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 1.48" for 10-year event
Inflow = 0.28 cfs @ 12.09 hrs, Volume= 0.008 af
Outflow = 0.02 cfs @ 12.57 hrs, Volume= 0.008 af, Atten= 93%, Lag= 28.7 min
Discarded = 0.02 cfs @ 12.57 hrs, Volume= 0.008 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 4.08' @ 12.57 hrs Surf.Area= 116 sf Storage= 227 cf

Plug-Flow detention time= 147.1 min calculated for 0.008 af (99% of inflow)
Center-of-Mass det. time= 144.4 min (896.4 - 752.0)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**7.500 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.02 cfs @ 12.57 hrs HW=4.08' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond 21.1P: Dry Well

Used Deep Hole 130

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 4%, Lag= 1.3 min
Discarded = 0.02 cfs @ 12.58 hrs, Volume= 0.013 af
Primary = 0.28 cfs @ 12.09 hrs, Volume= 0.008 af
Routed to Pond 21.1aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.08' @ 12.58 hrs Surf.Area= 116 sf Storage= 227 cf

Plug-Flow detention time= 78.5 min calculated for 0.022 af (95% of inflow)
Center-of-Mass det. time= 58.8 min (780.3 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**7.500 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 89.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.02 cfs @ 12.58 hrs HW=4.08' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=3.54' TW=3.28' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.28 cfs @ 0.95 fps)

Summary for Pond 21P: Sediment Forebay 2

Inflow Area = 3.842 ac, 17.51% Impervious, Inflow Depth > 1.30" for 10-year event
Inflow = 4.02 cfs @ 12.09 hrs, Volume= 0.417 af
Outflow = 4.02 cfs @ 12.09 hrs, Volume= 0.413 af, Atten= 0%, Lag= 0.0 min
Primary = 4.02 cfs @ 12.09 hrs, Volume= 0.413 af
Routed to Pond 22P : Detention Basin 2

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.76' @ 14.68 hrs Surf.Area= 356 sf Storage= 57 cf

Plug-Flow detention time= 3.3 min calculated for 0.413 af (99% of inflow)
Center-of-Mass det. time= 0.5 min (813.0 - 812.5)

Volume	Invert	Avail.Storage	Storage Description
#1	259.80'	57 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
259.80	220	60.0	0	0	220
260.00	356	76.0	57	57	394

Device	Routing	Invert	Outlet Devices
#1	Primary	260.00'	**10.0' long x 4.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=261.08' TW=261.12' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 22P: Detention Basin 2

Inflow Area = 3.842 ac, 17.51% Impervious, Inflow Depth > 1.29" for 10-year event
Inflow = 4.02 cfs @ 12.09 hrs, Volume= 0.413 af
Outflow = 0.42 cfs @ 14.67 hrs, Volume= 0.222 af, Atten= 90%, Lag= 154.6 min
Discarded = 0.28 cfs @ 14.67 hrs, Volume= 0.183 af
Primary = 0.14 cfs @ 14.67 hrs, Volume= 0.039 af
Routed to Reach TS 2 : Drainage Channel 2
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af
Routed to Reach TS 2 : Drainage Channel 2

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.76' @ 14.67 hrs Surf.Area= 5,380 sf Storage= 10,125 cf

Plug-Flow detention time= 215.2 min calculated for 0.222 af (54% of inflow)
Center-of-Mass det. time= 125.7 min (938.7 - 813.0)

Volume	Invert	Avail.Storage	Storage Description
#1	259.80'	17,727 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
259.80	1,112	190.0	0	0	1,112
260.00	1,760	282.0	285	285	4,568
262.00	4,528	334.0	6,074	6,359	7,190
264.00	6,925	369.0	11,368	17,727	9,271

Device	Routing	Invert	Outlet Devices
#1	Primary	262.10'	**12.0" Round ASB - Culvert** L= 21.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 262.10' / 261.97' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	264.00'	**24.0" x 24.0" Horiz. ASB - Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	262.50'	**4.0" W x 16.8" H Vert. ASB - Orifice** C= 0.600 Limited to weir flow at low heads
#4	Secondary	263.90'	**10.0' long x 5.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88
#5	Discarded	259.80'	**2.800 in/hr Exfiltration over Surface area above 259.80'** Excluded Surface area = 1,112 sf

Discarded OutFlow Max=0.28 cfs @ 14.67 hrs HW=262.76' (Free Discharge)
└**5=Exfiltration** (Exfiltration Controls 0.28 cfs)

Primary OutFlow Max=0.14 cfs @ 14.67 hrs HW=262.76' TW=262.04' (Dynamic Tailwater)
└**1=ASB - Culvert** (Passes 0.14 cfs of 1.15 cfs potential flow)
  ├**2=ASB - Grate** (Controls 0.00 cfs)
  └**3=ASB - Orifice** (Orifice Controls 0.14 cfs @ 1.64 fps)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=259.80' TW=262.00' (Dynamic Tailwater)
└**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 26.2aP: Dry Well

Used Deep Hole 101

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 1.83" for 10-year event
Inflow = 0.16 cfs @ 12.06 hrs, Volume= 0.010 af
Outflow = 0.01 cfs @ 13.30 hrs, Volume= 0.006 af, Atten= 93%, Lag= 74.4 min
Discarded = 0.01 cfs @ 13.30 hrs, Volume= 0.006 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.57' @ 13.30 hrs Surf.Area= 136 sf Storage= 289 cf

Plug-Flow detention time= 225.5 min calculated for 0.006 af (62% of inflow)

Center-of-Mass det. time= 164.9 min (938.4 - 773.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.300 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.01 cfs @ 13.30 hrs HW=4.57' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 26.2P: Dry Well

Used Deep Hole 101

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.17 cfs @ 12.06 hrs, Volume= 0.019 af, Atten= 46%, Lag= 0.0 min
Discarded = 0.01 cfs @ 13.31 hrs, Volume= 0.009 af
Primary = 0.16 cfs @ 12.06 hrs, Volume= 0.010 af
Routed to Pond 26.2aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.57' @ 13.31 hrs Surf.Area= 136 sf Storage= 289 cf

Plug-Flow detention time= 125.2 min calculated for 0.019 af (83% of inflow)
Center-of-Mass det. time= 73.3 min (794.8 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.300 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 13.31 hrs HW=4.57' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 12.06 hrs HW=3.60' TW=3.64' (Dynamic Tailwater)
↑**2=Culvert** (Controls 0.00 cfs)

Summary for Pond 26P: FES 18 to FES 19

Inflow Area = 2.091 ac, 20.77% Impervious, Inflow Depth > 1.89" for 10-year event
Inflow = 3.84 cfs @ 12.20 hrs, Volume= 0.329 af
Outflow = 3.84 cfs @ 12.20 hrs, Volume= 0.329 af, Atten= 0%, Lag= 0.0 min
Primary = 3.84 cfs @ 12.20 hrs, Volume= 0.329 af
Routed to Pond 12P : Sediment Forebay 3

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.28' @ 13.10 hrs
Flood Elev= 262.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.00'	**18.0" Round Culvert** L= 110.0' Ke= 0.500 Inlet / Outlet Invert= 258.00' / 257.40' S= 0.0055 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.77 sf

Primary OutFlow Max=3.76 cfs @ 12.20 hrs HW=259.19' TW=258.69' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.76 cfs @ 3.42 fps)

Summary for Pond 27P: FES 21 to FES 22

Inflow Area = 0.661 ac, 8.14% Impervious, Inflow Depth > 1.08" for 10-year event
Inflow = 0.72 cfs @ 12.16 hrs, Volume= 0.060 af
Outflow = 0.72 cfs @ 12.16 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.16 hrs, Volume= 0.060 af
Routed to Reach 27R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 260.37' @ 12.16 hrs
Flood Elev= 261.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	260.00'	**18.0" Round Culvert** L= 123.0' Ke= 0.500 Inlet / Outlet Invert= 260.00' / 258.00' S= 0.0163 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.77 sf

Primary OutFlow Max=0.72 cfs @ 12.16 hrs HW=260.37' TW=258.08' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.72 cfs @ 2.08 fps)

Summary for Pond 31AP: FES 1 to FES 2

Inflow Area = 2.479 ac, 5.97% Impervious, Inflow Depth > 0.91" for 10-year event
Inflow = 1.72 cfs @ 12.31 hrs, Volume= 0.188 af
Outflow = 1.72 cfs @ 12.31 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min
Primary = 1.72 cfs @ 12.31 hrs, Volume= 0.188 af
Routed to Pond 21P : Sediment Forebay 2

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.77' @ 14.66 hrs
Flood Elev= 266.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	262.00'	**18.0" Round Culvert** L= 96.0' Ke= 0.500 Inlet / Outlet Invert= 262.00' / 261.00' S= 0.0104 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.77 sf

Primary OutFlow Max=1.70 cfs @ 12.31 hrs HW=262.60' TW=261.79' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.70 cfs @ 3.82 fps)

Summary for Pond 39.2aP: Dry Well

Used Deep Hole 121

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 1.81" for 10-year event
Inflow = 0.20 cfs @ 12.02 hrs, Volume= 0.010 af
Outflow = 0.01 cfs @ 13.05 hrs, Volume= 0.007 af, Atten= 94%, Lag= 61.9 min
Discarded = 0.01 cfs @ 13.05 hrs, Volume= 0.007 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.50' @ 13.05 hrs Surf.Area= 133 sf Storage= 279 cf

Plug-Flow detention time= 218.9 min calculated for 0.007 af (67% of inflow)
Center-of-Mass det. time= 160.9 min (936.6 - 775.7)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.750 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.01 cfs @ 13.05 hrs HW=4.50' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 39.2P: Dry Well

Used Deep Hole 121

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.21 cfs @ 12.02 hrs, Volume= 0.020 af, Atten= 33%, Lag= 0.0 min
Discarded = 0.01 cfs @ 13.06 hrs, Volume= 0.009 af
Primary = 0.20 cfs @ 12.02 hrs, Volume= 0.010 af
Routed to Pond 39.2aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.50' @ 13.06 hrs Surf.Area= 133 sf Storage= 279 cf

Plug-Flow detention time= 120.5 min calculated for 0.020 af (85% of inflow)
Center-of-Mass det. time= 74.0 min (795.5 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**3.750 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 33.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 13.06 hrs HW=4.50' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.14 cfs @ 12.02 hrs HW=3.39' TW=3.35' (Dynamic Tailwater)
↑**2=Culvert** (Outlet Controls 0.14 cfs @ 0.71 fps)

Summary for Pond 39aP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth > 1.47" for 10-year event
Inflow = 1.16 cfs @ 12.09 hrs, Volume= 0.065 af
Outflow = 1.10 cfs @ 12.10 hrs, Volume= 0.064 af, Atten= 6%, Lag= 0.6 min
Discarded = 0.03 cfs @ 12.62 hrs, Volume= 0.015 af
Primary = 1.07 cfs @ 12.10 hrs, Volume= 0.049 af
Routed to Pond 39bP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.62 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 25.4 min calculated for 0.064 af (98% of inflow)
Center-of-Mass det. time= 18.0 min (796.2 - 778.2)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.62 hrs HW=4.12' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.98 cfs @ 12.10 hrs HW=3.91' TW=3.82' (Dynamic Tailwater)
↑**2=Culvert** (Outlet Controls 0.98 cfs @ 1.72 fps)

Summary for Pond 39bP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth = 1.11" for 10-year event
Inflow = 1.07 cfs @ 12.10 hrs, Volume= 0.049 af
Outflow = 1.04 cfs @ 12.11 hrs, Volume= 0.049 af, Atten= 3%, Lag= 0.4 min
Discarded = 0.03 cfs @ 12.61 hrs, Volume= 0.011 af
Primary = 1.01 cfs @ 12.11 hrs, Volume= 0.038 af
Routed to Pond 39cP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 4.12' @ 12.61 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 26.3 min calculated for 0.049 af (100% of inflow)
Center-of-Mass det. time= 26.3 min (789.7 - 763.4)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.61 hrs HW=4.12' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.92 cfs @ 12.11 hrs HW=3.83' TW=3.72' (Dynamic Tailwater)
↑—**2=Culvert** (Outlet Controls 0.92 cfs @ 1.81 fps)

Summary for Pond 39cP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth = 0.86" for 10-year event
Inflow = 1.01 cfs @ 12.11 hrs, Volume= 0.038 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.038 af, Atten= 4%, Lag= 0.0 min
Discarded = 0.03 cfs @ 12.61 hrs, Volume= 0.010 af
Primary = 0.95 cfs @ 12.10 hrs, Volume= 0.028 af
Routed to Pond 39dP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.61 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 30.2 min calculated for 0.038 af (100% of inflow)
Center-of-Mass det. time= 30.3 min (790.8 - 760.6)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.61 hrs HW=4.12' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.82 cfs @ 12.10 hrs HW=3.70' TW=3.57' (Dynamic Tailwater)
↑—**2=Culvert** (Outlet Controls 0.82 cfs @ 1.95 fps)

Summary for Pond 39dP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth = 0.63" for 10-year event
Inflow = 0.95 cfs @ 12.10 hrs, Volume= 0.028 af
Outflow = 0.88 cfs @ 12.14 hrs, Volume= 0.028 af, Atten= 7%, Lag= 2.5 min
Discarded = 0.03 cfs @ 12.60 hrs, Volume= 0.009 af
Primary = 0.86 cfs @ 12.14 hrs, Volume= 0.018 af
Routed to Pond 39eP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.60 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 39.2 min calculated for 0.028 af (100% of inflow)
Center-of-Mass det. time= 39.3 min (800.2 - 760.8)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.60 hrs HW=4.12' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.86 cfs @ 12.14 hrs HW=3.67' TW=3.23' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.86 cfs @ 2.18 fps)

Summary for Pond 39eP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth = 0.42" for 10-year event
Inflow = 0.86 cfs @ 12.14 hrs, Volume= 0.018 af
Outflow = 0.72 cfs @ 12.17 hrs, Volume= 0.018 af, Atten= 16%, Lag= 1.8 min
Discarded = 0.03 cfs @ 12.56 hrs, Volume= 0.009 af
Primary = 0.69 cfs @ 12.17 hrs, Volume= 0.009 af
Routed to Pond 39fP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.56 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 58.1 min calculated for 0.018 af (100% of inflow)
Center-of-Mass det. time= 58.2 min (819.6 - 761.4)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.56 hrs HW=4.12' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.69 cfs @ 12.17 hrs HW=3.60' TW=1.85' (Dynamic Tailwater)
2=Culvert (Barrel Controls 0.69 cfs @ 2.04 fps)

Summary for Pond 39fP: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth = 0.21" for 10-year event
Inflow = 0.69 cfs @ 12.17 hrs, Volume= 0.009 af
Outflow = 0.03 cfs @ 12.57 hrs, Volume= 0.009 af, Atten= 96%, Lag= 24.1 min
Discarded = 0.03 cfs @ 12.57 hrs, Volume= 0.009 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.57 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 115.2 min calculated for 0.009 af (100% of inflow)
Center-of-Mass det. time= 115.2 min (877.4 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.03 cfs @ 12.57 hrs HW=4.12' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.03 cfs)

Summary for Pond 39P: Dry Well

Used Deep Hole 112

Inflow Area = 0.529 ac, 37.86% Impervious, Inflow Depth > 2.04" for 10-year event
Inflow = 1.28 cfs @ 12.08 hrs, Volume= 0.090 af
Outflow = 1.19 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 7%, Lag= 0.8 min
Discarded = 0.03 cfs @ 12.63 hrs, Volume= 0.022 af
Primary = 1.16 cfs @ 12.09 hrs, Volume= 0.065 af
Routed to Pond 39aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.12' @ 12.63 hrs Surf.Area= 118 sf Storage= 232 cf

Plug-Flow detention time= 26.1 min calculated for 0.087 af (97% of inflow)
Center-of-Mass det. time= 12.9 min (781.1 - 768.2)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**10.000 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.03 cfs @ 12.63 hrs HW=4.12' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=3.98' TW=3.89' (Dynamic Tailwater)
↑—**2=Culvert** (Outlet Controls 1.03 cfs @ 1.66 fps)

Summary for Pond 40.2P: Sediment Forebay 4

Inflow Area = 0.973 ac, 29.68% Impervious, Inflow Depth > 1.73" for 10-year event
Inflow = 2.01 cfs @ 12.08 hrs, Volume= 0.141 af
Outflow = 2.15 cfs @ 12.09 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.4 min
Primary = 2.15 cfs @ 12.09 hrs, Volume= 0.125 af
Routed to Reach 21R : Overland Flow

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.28' @ 12.09 hrs Surf.Area= 580 sf Storage= 696 cf

Plug-Flow detention time= 58.8 min calculated for 0.124 af (89% of inflow)
Center-of-Mass det. time= 22.2 min (812.9 - 790.8)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	696 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	155	55.0	0	0	155
258.00	340	70.0	242	242	317
259.00	580	90.0	455	696	584

Device	Routing	Invert	Outlet Devices
#1	Primary	259.00'	**10.0' long x 4.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=2.10 cfs @ 12.09 hrs HW=259.28' TW=259.24' (Dynamic Tailwater)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 2.10 cfs @ 0.74 fps)

Summary for Pond 40.3P: Detention Basin 4

Inflow Area = 3.332 ac, 11.16% Impervious, Inflow Depth > 1.17" for 10-year event
Inflow = 2.41 cfs @ 12.11 hrs, Volume= 0.324 af
Outflow = 0.86 cfs @ 13.03 hrs, Volume= 0.237 af, Atten= 64%, Lag= 55.0 min
Discarded = 0.18 cfs @ 13.03 hrs, Volume= 0.108 af
Primary = 0.68 cfs @ 13.03 hrs, Volume= 0.129 af
Routed to Reach TS 4 : Drainage Channel 4
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af
Routed to Reach TS 4 : Drainage Channel 4

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 254.50' @ 13.03 hrs Surf.Area= 3,572 sf Storage= 5,618 cf

Plug-Flow detention time= 130.9 min calculated for 0.237 af (73% of inflow)
Center-of-Mass det. time= 65.4 min (899.3 - 833.9)

Volume	Invert	Avail.Storage	Storage Description
#1	251.90'	11,575 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
251.90	500	120.0	0	0	500
252.70	1,719	162.0	839	839	1,449
254.00	3,120	210.0	3,100	3,939	2,891
255.90	4,990	260.0	7,635	11,575	4,813

Device	Routing	Invert	Outlet Devices
#1	Primary	253.69'	**12.0" Round ASB - Culvert** L= 47.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.69' / 253.60' S= 0.0019 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	253.70'	**4.0" W x 20.4" H Vert. ASB - Orifice** C= 0.600 Limited to weir flow at low heads
#3	Secondary	255.89'	**10.0' long x 4.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#4	Discarded	251.90'	**2.600 in/hr Exfiltration over Surface area above 251.90'** Excluded Surface area = 500 sf
#5	Device 1	255.40'	**24.0" W x 24.0" H Vert. Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.18 cfs @ 13.03 hrs HW=254.50' (Free Discharge)
└**4=Exfiltration** (Exfiltration Controls 0.18 cfs)

Primary OutFlow Max=0.68 cfs @ 13.03 hrs HW=254.50' TW=254.11' (Dynamic Tailwater)
└**1=ASB - Culvert** (Passes 0.68 cfs of 1.31 cfs potential flow)
  └**2=ASB - Orifice** (Orifice Controls 0.68 cfs @ 2.53 fps)
  └**5=Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=251.90' TW=254.00' (Dynamic Tailwater)
└**3=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Summary for Pond 46.1P: Dry Well

Used Deep Hole 63

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 1.87" for 10-year event
Inflow = 0.16 cfs @ 12.06 hrs, Volume= 0.011 af
Outflow = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af, Atten= 95%, Lag= 104.4 min
Discarded = 0.01 cfs @ 13.80 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.71' @ 13.80 hrs Surf.Area= 141 sf Storage= 308 cf

Plug-Flow detention time= 235.9 min calculated for 0.005 af (52% of inflow)
Center-of-Mass det. time= 170.8 min (941.3 - 770.4)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.600 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.01 cfs @ 13.80 hrs HW=4.71' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 46P: Dry Well

Used Deep Hole 63

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.16 cfs @ 12.06 hrs, Volume= 0.018 af, Atten= 47%, Lag= 0.0 min
Discarded = 0.01 cfs @ 13.81 hrs, Volume= 0.007 af
Primary = 0.16 cfs @ 12.06 hrs, Volume= 0.011 af
  Routed to Pond 46.1P : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.71' @ 13.81 hrs Surf.Area= 141 sf Storage= 308 cf

Plug-Flow detention time= 131.9 min calculated for 0.018 af (78% of inflow)

Center-of-Mass det. time= 71.4 min (792.8 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.600 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 13.81 hrs HW=4.71' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 12.06 hrs HW=3.71' TW=3.75' (Dynamic Tailwater)
↑—**2=Culvert** (Controls 0.00 cfs)

Summary for Pond 47aP: Dry Well

Used Deep Hole 4.2

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 1.87" for 10-year event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.011 af
Outflow = 0.01 cfs @ 13.81 hrs, Volume= 0.006 af, Atten= 95%, Lag= 104.3 min
Discarded = 0.01 cfs @ 13.81 hrs, Volume= 0.006 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.71' @ 13.81 hrs Surf.Area= 141 sf Storage= 308 cf

Plug-Flow detention time= 236.2 min calculated for 0.006 af (52% of inflow)
Center-of-Mass det. time= 170.8 min (941.0 - 770.2)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.600 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.01 cfs @ 13.81 hrs HW=4.71' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 47P: Dry Well

Used Deep Hole 4.2

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.16 cfs @ 12.07 hrs, Volume= 0.018 af, Atten= 47%, Lag= 0.0 min
Discarded = 0.01 cfs @ 13.82 hrs, Volume= 0.007 af
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.011 af
Routed to Pond 47aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.71' @ 13.82 hrs Surf.Area= 141 sf Storage= 308 cf

Plug-Flow detention time= 131.6 min calculated for 0.018 af (78% of inflow)
Center-of-Mass det. time= 71.2 min (792.7 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**2.600 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 8.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.01 cfs @ 13.82 hrs HW=4.71' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=3.73' TW=3.77' (Dynamic Tailwater)
2=Culvert (Controls 0.00 cfs)

Summary for Pond 48aP: Dry Well

Used Deep Hole 93

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 1.66" for 10-year event
Inflow = 0.29 cfs @ 12.07 hrs, Volume= 0.009 af
Outflow = 0.02 cfs @ 12.77 hrs, Volume= 0.008 af, Atten= 95%, Lag= 42.2 min
Discarded = 0.02 cfs @ 12.77 hrs, Volume= 0.008 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.28' @ 12.77 hrs Surf.Area= 124 sf Storage= 251 cf

Plug-Flow detention time= 188.8 min calculated for 0.008 af (85% of inflow)
Center-of-Mass det. time= 159.2 min (923.8 - 764.6)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**5.400 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.02 cfs @ 12.77 hrs HW=4.28' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.02 cfs)

Summary for Pond 48P: Dry Well

Used Deep Hole 93

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.021 af, Atten= 3%, Lag= 0.0 min
Discarded = 0.02 cfs @ 12.78 hrs, Volume= 0.012 af
Primary = 0.29 cfs @ 12.07 hrs, Volume= 0.009 af
Routed to Pond 48aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.28' @ 12.78 hrs Surf.Area= 124 sf Storage= 251 cf

Plug-Flow detention time= 99.1 min calculated for 0.021 af (91% of inflow)
Center-of-Mass det. time= 66.4 min (787.8 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**5.400 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.02 cfs @ 12.78 hrs HW=4.28' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.19 cfs @ 12.07 hrs HW=3.46' TW=3.41' (Dynamic Tailwater)
↑**2=Culvert** (Outlet Controls 0.19 cfs @ 0.77 fps)

Summary for Pond 49aP: Dry Well

Used Deep Hole 93

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth = 1.66" for 10-year event
Inflow = 0.29 cfs @ 12.07 hrs, Volume= 0.009 af
Outflow = 0.02 cfs @ 12.77 hrs, Volume= 0.008 af, Atten= 95%, Lag= 42.2 min
Discarded = 0.02 cfs @ 12.77 hrs, Volume= 0.008 af

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.28' @ 12.77 hrs Surf.Area= 124 sf Storage= 251 cf

Plug-Flow detention time= 188.8 min calculated for 0.008 af (85% of inflow)
Center-of-Mass det. time= 159.2 min (923.8 - 764.6)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**5.400 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.02 cfs @ 12.77 hrs HW=4.28' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Pond 49P: Dry Well

Used Deep Hole 93

Inflow Area = 0.068 ac,100.00% Impervious, Inflow Depth > 4.07" for 10-year event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.021 af, Atten= 3%, Lag= 0.0 min
Discarded = 0.02 cfs @ 12.78 hrs, Volume= 0.012 af
Primary = 0.29 cfs @ 12.07 hrs, Volume= 0.009 af
Routed to Pond 49aP : Dry Well

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 4.28' @ 12.78 hrs Surf.Area= 124 sf Storage= 251 cf

Plug-Flow detention time= 99.1 min calculated for 0.021 af (91% of inflow)
Center-of-Mass det. time= 66.4 min (787.8 - 721.5)

Volume	Invert	Avail.Storage	Storage Description
#1	0.00'	528 cf	**4.00'D x 6.00'H Vertical Cone/Cylinder Z=1.0**

Device	Routing	Invert	Outlet Devices
#1	Discarded	0.00'	**5.400 in/hr Exfiltration over Surface area**
#2	Primary	3.00'	**12.0" Round Culvert** L= 39.0' Ke= 0.500 Inlet / Outlet Invert= 3.00' / 3.00' S= 0.0000 '/' Cc= 0.900 n= 0.020 Corrugated PE, corrugated interior, Flow Area= 0.79 sf

Discarded OutFlow Max=0.02 cfs @ 12.78 hrs HW=4.28' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.18 cfs @ 12.07 hrs HW=3.46' TW=3.41' (Dynamic Tailwater)
↑—**2=Culvert** (Outlet Controls 0.18 cfs @ 0.75 fps)

Summary for Pond 100: DMH 100

Inflow Area = 0.610 ac, 72.98% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 2.32 cfs @ 12.07 hrs, Volume= 0.153 af
Outflow = 2.32 cfs @ 12.07 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 2.32 cfs @ 12.07 hrs, Volume= 0.153 af
Routed to Pond 21P : Sediment Forebay 2

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.76' @ 14.69 hrs
Flood Elev= 265.89'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.39'	**15.0" Round Culvert** L= 85.0' Ke= 0.500 Inlet / Outlet Invert= 261.39' / 261.00' S= 0.0046 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=2.32 cfs @ 12.07 hrs HW=262.24' TW=260.98' (Dynamic Tailwater)
↑—**1=Culvert** (Barrel Controls 2.32 cfs @ 3.67 fps)

Summary for Pond 101: DMH 101

Inflow Area = 0.352 ac, 71.95% Impervious, Inflow Depth > 2.97" for 10-year event
Inflow = 1.33 cfs @ 12.07 hrs, Volume= 0.087 af
Outflow = 1.33 cfs @ 12.07 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 1.33 cfs @ 12.07 hrs, Volume= 0.087 af
Routed to Pond 100 : DMH 100

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 263.28' @ 12.07 hrs
Flood Elev= 269.68'

Device	Routing	Invert	Outlet Devices
#1	Primary	262.62'	**12.0" Round Culvert** L= 189.0' Ke= 0.500 Inlet / Outlet Invert= 262.62' / 261.56' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.07 hrs HW=263.28' TW=262.24' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.32 cfs @ 3.40 fps)

Summary for Pond 102: DMH 102

Inflow Area = 0.313 ac, 72.23% Impervious, Inflow Depth > 2.99" for 10-year event
Inflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Outflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Routed to Pond 101 : DMH 101

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 263.86' @ 12.08 hrs
Flood Elev= 269.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.22'	**12.0" Round Culvert** L= 97.0' Ke= 0.500 Inlet / Outlet Invert= 263.22' / 262.72' S= 0.0052 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.07 hrs HW=263.86' TW=263.28' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.18 cfs @ 3.15 fps)

Summary for Pond 103: DMH 103

Inflow Area = 0.313 ac, 72.23% Impervious, Inflow Depth > 2.99" for 10-year event
Inflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Outflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Routed to Pond 102 : DMH 102

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 264.37' @ 12.08 hrs
Flood Elev= 268.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.73'	**12.0" Round Culvert** L= 79.0' Ke= 0.500 Inlet / Outlet Invert= 263.73' / 263.32' S= 0.0052 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.07 hrs HW=264.37' TW=263.86' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.18 cfs @ 3.14 fps)

Summary for Pond 110: DMH 111

Inflow Area = 0.205 ac, 75.39% Impervious, Inflow Depth > 3.08" for 10-year event
Inflow = 0.79 cfs @ 12.07 hrs, Volume= 0.053 af
Outflow = 0.79 cfs @ 12.07 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.79 cfs @ 12.07 hrs, Volume= 0.053 af
Routed to Pond 111 : DMH 110

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 271.80' @ 12.07 hrs
Flood Elev= 276.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	271.35'	**12.0" Round Culvert** L= 99.0' Ke= 0.500 Inlet / Outlet Invert= 271.35' / 270.35' S= 0.0101 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.79 cfs @ 12.07 hrs HW=271.80' TW=270.83' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.79 cfs @ 2.29 fps)

Summary for Pond 111: DMH 110

Inflow Area = 0.317 ac, 74.02% Impervious, Inflow Depth > 3.03" for 10-year event
Inflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Outflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Routed to Pond 112 : DMH 112

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 270.83' @ 12.07 hrs
Flood Elev= 277.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	270.25'	**12.0" Round Culvert** L= 56.0' Ke= 0.500 Inlet / Outlet Invert= 270.25' / 269.70' S= 0.0098 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.07 hrs HW=270.83' TW=270.18' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.21 cfs @ 2.59 fps)

Summary for Pond 112: DMH 112

Inflow Area = 0.317 ac, 74.02% Impervious, Inflow Depth > 3.03" for 10-year event
Inflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Outflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Routed to Pond 113 : DMH 113

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 270.18' @ 12.07 hrs
Flood Elev= 278.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	269.60'	**12.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 269.60' / 269.00' S= 0.0102 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.07 hrs HW=270.18' TW=269.48' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.21 cfs @ 2.59 fps)

Summary for Pond 113: DMH 113

Inflow Area = 0.317 ac, 74.02% Impervious, Inflow Depth > 3.03" for 10-year event
Inflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Outflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Routed to Pond 114 : DMH 114

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 269.48' @ 12.07 hrs
Flood Elev= 279.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	268.90'	**12.0" Round Culvert** L= 59.0' Ke= 0.500 Inlet / Outlet Invert= 268.90' / 268.30' S= 0.0102 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.07 hrs HW=269.48' TW=268.78' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.21 cfs @ 2.59 fps)

Summary for Pond 114: DMH 114

Inflow Area = 0.317 ac, 74.02% Impervious, Inflow Depth > 3.03" for 10-year event
Inflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Outflow = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.07 hrs, Volume= 0.080 af
Routed to Pond 120 : DMH 120

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 268.78' @ 12.07 hrs
Flood Elev= 276.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	268.20'	**12.0" Round Culvert** L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 268.20' / 267.20' S= 0.0106 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.07 hrs HW=268.78' TW=267.58' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.21 cfs @ 2.59 fps)

Summary for Pond 120: DMH 120

Inflow Area = 0.442 ac, 73.33% Impervious, Inflow Depth > 3.02" for 10-year event
Inflow = 1.69 cfs @ 12.07 hrs, Volume= 0.111 af
Outflow = 1.69 cfs @ 12.07 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
Primary = 1.69 cfs @ 12.07 hrs, Volume= 0.111 af
Routed to Pond 121 : DMH 121

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 267.58' @ 12.07 hrs
Flood Elev= 276.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	266.95'	**15.0" Round Culvert** L= 200.0' Ke= 0.500 Inlet / Outlet Invert= 266.95' / 261.45' S= 0.0275 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=1.68 cfs @ 12.07 hrs HW=267.58' TW=261.95' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.68 cfs @ 2.71 fps)

Summary for Pond 121: DMH 121

Inflow Area = 0.596 ac, 72.92% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 2.27 cfs @ 12.07 hrs, Volume= 0.149 af
Outflow = 2.27 cfs @ 12.07 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min
Primary = 2.27 cfs @ 12.07 hrs, Volume= 0.149 af
Routed to Pond 12P : Sediment Forebay 3

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 261.95' @ 12.07 hrs
Flood Elev= 265.70'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.20'	**15.0" Round Culvert** L= 108.0' Ke= 0.500 Inlet / Outlet Invert= 261.20' / 258.00' S= 0.0296 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=2.27 cfs @ 12.07 hrs HW=261.95' TW=258.45' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 2.27 cfs @ 2.95 fps)

Summary for Pond 130: DMH 130

Inflow Area = 0.472 ac, 71.64% Impervious, Inflow Depth > 3.04" for 10-year event
Inflow = 1.81 cfs @ 12.07 hrs, Volume= 0.119 af
Outflow = 1.81 cfs @ 12.07 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
Primary = 1.81 cfs @ 12.07 hrs, Volume= 0.119 af
Routed to Pond 12P : Sediment Forebay 3

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.27' @ 13.17 hrs
Flood Elev= 262.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	257.90'	**15.0" Round Culvert** L= 79.0' Ke= 0.500 Inlet / Outlet Invert= 257.90' / 257.40' S= 0.0063 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=1.75 cfs @ 12.07 hrs HW=258.77' TW=258.45' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 1.75 cfs @ 2.71 fps)

Summary for Pond 131: DMH 131

Inflow Area = 0.150 ac, 71.85% Impervious, Inflow Depth > 2.98" for 10-year event
Inflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Outflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Routed to Pond 130 : DMH 130

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.27' @ 13.18 hrs
Flood Elev= 262.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.53'	**12.0" Round Culvert** L= 38.0' Ke= 0.500 Inlet / Outlet Invert= 258.53' / 258.00' S= 0.0139 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.07 hrs HW=258.99' TW=258.77' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.55 cfs @ 2.30 fps)

Summary for Pond 132: DMH 132

Inflow Area = 0.150 ac, 71.85% Impervious, Inflow Depth > 2.98" for 10-year event
Inflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Outflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Routed to Pond 131 : DMH 131

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 260.10' @ 12.07 hrs
Flood Elev= 263.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.72'	**12.0" Round Culvert** L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 259.72' / 258.63' S= 0.0147 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.07 hrs HW=260.10' TW=258.99' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.57 cfs @ 2.09 fps)

Summary for Pond 133: DMH 133

Inflow Area = 0.150 ac, 71.85% Impervious, Inflow Depth > 2.98" for 10-year event
Inflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Outflow = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.07 hrs, Volume= 0.037 af
Routed to Pond 132 : DMH 132

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 261.18' @ 12.07 hrs
Flood Elev= 265.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	260.80'	**12.0" Round Culvert** L= 93.0' Ke= 0.500 Inlet / Outlet Invert= 260.80' / 259.82' S= 0.0105 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.07 hrs HW=261.18' TW=260.10' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.57 cfs @ 2.09 fps)

Summary for Pond 140: DMH 140

Inflow Area = 0.278 ac, 75.55% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 1.09 cfs @ 12.07 hrs, Volume= 0.072 af
Outflow = 1.09 cfs @ 12.07 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 1.09 cfs @ 12.07 hrs, Volume= 0.072 af
Routed to Pond 142 : DMH 142

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 260.32' @ 12.08 hrs
Flood Elev= 264.15'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.65'	**12.0" Round Culvert** L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 259.65' / 259.50' S= 0.0058 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.07 cfs @ 12.07 hrs HW=260.31' TW=260.07' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.07 cfs @ 2.74 fps)

Summary for Pond 141: DMH 141

Inflow Area = 0.412 ac, 60.91% Impervious, Inflow Depth > 2.69" for 10-year event
Inflow = 1.39 cfs @ 12.07 hrs, Volume= 0.093 af
Outflow = 1.39 cfs @ 12.07 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min
Primary = 1.39 cfs @ 12.07 hrs, Volume= 0.093 af
Routed to Pond 40.2P : Sediment Forebay 4

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.70' @ 12.08 hrs
Flood Elev= 266.04'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.00'	**12.0" Round Culvert** L= 49.0' Ke= 0.500 Inlet / Outlet Invert= 259.00' / 258.70' S= 0.0061 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.37 cfs @ 12.07 hrs HW=259.70' TW=259.27' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.37 cfs @ 3.28 fps)

Summary for Pond 142: DMH 142

Inflow Area = 0.357 ac, 58.93% Impervious, Inflow Depth > 2.64" for 10-year event
Inflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Outflow = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.07 hrs, Volume= 0.078 af
Routed to Pond 141 : DMH 141

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 260.07' @ 12.08 hrs
Flood Elev= 264.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.40'	**12.0" Round Culvert** L= 54.0' Ke= 0.500 Inlet / Outlet Invert= 259.40' / 259.10' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.17 cfs @ 12.07 hrs HW=260.07' TW=259.70' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.17 cfs @ 2.96 fps)

Summary for Pond CB 1:

Inflow Area = 0.140 ac, 75.94% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af
Outflow = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af
Routed to Pond 100 : DMH 100

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.76' @ 14.70 hrs
Flood Elev= 265.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.78'	**12.0" Round Culvert** L= 17.0' Ke= 0.500 Inlet / Outlet Invert= 261.78' / 261.64' S= 0.0082 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.07 hrs HW=262.33' TW=262.24' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.53 cfs @ 1.73 fps)

Summary for Pond CB 10:

Inflow Area = 0.048 ac, 68.35% Impervious, Inflow Depth > 2.82" for 10-year event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.011 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.011 af
Routed to Pond 111 : DMH 110

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 270.84' @ 12.08 hrs
Flood Elev= 277.18'

Device	Routing	Invert	Outlet Devices
#1	Primary	270.38'	**12.0" Round Culvert** L= 3.0' Ke= 0.500 Inlet / Outlet Invert= 270.38' / 270.35' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.07 hrs HW=270.84' TW=270.83' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.15 cfs @ 0.65 fps)

Summary for Pond CB 11:

Inflow Area = 0.117 ac, 78.84% Impervious, Inflow Depth > 3.21" for 10-year event
Inflow = 0.47 cfs @ 12.07 hrs, Volume= 0.031 af
Outflow = 0.47 cfs @ 12.07 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.47 cfs @ 12.07 hrs, Volume= 0.031 af
Routed to Pond 110 : DMH 111

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 272.01' @ 12.08 hrs
Flood Elev= 275.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	271.62'	**12.0" Round Culvert** L= 17.0' Ke= 0.500 Inlet / Outlet Invert= 271.62' / 271.45' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.07 hrs HW=272.01' TW=271.80' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.46 cfs @ 2.46 fps)

Summary for Pond CB 12:

Inflow Area = 0.088 ac, 70.83% Impervious, Inflow Depth > 2.92" for 10-year event
Inflow = 0.33 cfs @ 12.07 hrs, Volume= 0.021 af
Outflow = 0.33 cfs @ 12.07 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.33 cfs @ 12.07 hrs, Volume= 0.021 af
Routed to Pond 110 : DMH 111

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 271.95' @ 12.08 hrs
Flood Elev= 275.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	271.62'	**12.0" Round Culvert** L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 271.62' / 271.45' S= 0.0131 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.07 hrs HW=271.95' TW=271.80' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.32 cfs @ 2.13 fps)

Summary for Pond CB 13:

Inflow Area = 0.086 ac, 74.40% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.34 cfs @ 12.07 hrs, Volume= 0.022 af
Outflow = 0.34 cfs @ 12.07 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.07 hrs, Volume= 0.022 af
Routed to Pond 121 : DMH 121

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.01' @ 12.08 hrs
Flood Elev= 265.91'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.57'	**12.0" Round Culvert** L= 12.0' Ke= 0.500 Inlet / Outlet Invert= 261.57' / 261.45' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.07 hrs HW=262.01' TW=261.95' (Dynamic Tailwater)
↑—**1=Culvert** (Outlet Controls 0.32 cfs @ 1.43 fps)

Summary for Pond CB 14:

Inflow Area = 0.069 ac, 68.45% Impervious, Inflow Depth > 2.82" for 10-year event
Inflow = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af
Outflow = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af
Routed to Pond 121 : DMH 121

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 261.99' @ 12.08 hrs
Flood Elev= 265.91'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.57'	**12.0" Round Culvert** L= 12.0' Ke= 0.500 Inlet / Outlet Invert= 261.57' / 261.45' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.07 hrs HW=261.99' TW=261.95' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.24 cfs @ 1.13 fps)

Summary for Pond CB 15:

Inflow Area = 0.176 ac, 74.71% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.69 cfs @ 12.07 hrs, Volume= 0.046 af
Outflow = 0.69 cfs @ 12.07 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.69 cfs @ 12.07 hrs, Volume= 0.046 af
Routed to Pond 130 : DMH 130

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 259.27' @ 13.18 hrs
Flood Elev= 262.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.17'	**12.0" Round Culvert** L= 11.0' Ke= 0.500 Inlet / Outlet Invert= 258.17' / 258.00' S= 0.0155 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.63 cfs @ 12.07 hrs HW=258.84' TW=258.77' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.63 cfs @ 1.60 fps)

Summary for Pond CB 16:

Inflow Area = 0.145 ac, 67.70% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af
Outflow = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.07 hrs, Volume= 0.036 af
Routed to Pond 130 : DMH 130

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 259.27' @ 13.18 hrs
Flood Elev= 262.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	258.17'	**12.0" Round Culvert** L= 3.0' Ke= 0.500 Inlet / Outlet Invert= 258.17' / 258.01' S= 0.0533 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.07 hrs HW=258.81' TW=258.77' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.48 cfs @ 1.29 fps)

Summary for Pond CB 17:

Inflow Area = 0.085 ac, 74.43% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.33 cfs @ 12.07 hrs, Volume= 0.022 af
Outflow = 0.33 cfs @ 12.07 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.33 cfs @ 12.07 hrs, Volume= 0.022 af
Routed to Pond 133 : DMH 133

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 261.45' @ 12.07 hrs
Flood Elev= 265.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.16'	**12.0" Round Culvert** L= 21.0' Ke= 0.500 Inlet / Outlet Invert= 261.16' / 260.90' S= 0.0124 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.07 hrs HW=261.45' TW=261.18' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.33 cfs @ 2.60 fps)

Summary for Pond CB 18:

Inflow Area = 0.065 ac, 68.49% Impervious, Inflow Depth > 2.82" for 10-year event
Inflow = 0.24 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.24 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.24 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 133 : DMH 133

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 261.41' @ 12.08 hrs
Flood Elev= 265.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.16'	**12.0" Round Culvert** L= 17.0' Ke= 0.500 Inlet / Outlet Invert= 261.16' / 260.90' S= 0.0153 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.23 cfs @ 12.07 hrs HW=261.41' TW=261.18' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.23 cfs @ 2.37 fps)

Summary for Pond CB 19:

Inflow Area = 0.027 ac, 75.73% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af
Outflow = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af
Routed to Pond 141 : DMH 141

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.48' @ 12.07 hrs
Flood Elev= 266.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	262.32'	**12.0" Round Culvert** L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 262.32' / 261.97' S= 0.0087 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.11 cfs @ 12.07 hrs HW=262.48' TW=259.70' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.11 cfs @ 2.04 fps)

Summary for Pond CB 2:

Inflow Area = 0.117 ac, 72.50% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 0.45 cfs @ 12.07 hrs, Volume= 0.029 af
Outflow = 0.45 cfs @ 12.07 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.07 hrs, Volume= 0.029 af
Routed to Pond 100 : DMH 100

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.76' @ 14.70 hrs
Flood Elev= 265.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.78'	**12.0" Round Culvert** L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 261.78' / 261.64' S= 0.0108 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 12.07 hrs HW=262.31' TW=262.24' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.43 cfs @ 1.48 fps)

Summary for Pond CB 20:

Inflow Area = 0.174 ac, 75.58% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.68 cfs @ 12.07 hrs, Volume= 0.045 af
Outflow = 0.68 cfs @ 12.07 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.07 hrs, Volume= 0.045 af
Routed to Pond 140 : DMH 140

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 260.44' @ 12.08 hrs
Flood Elev= 263.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.86'	**12.0" Round Culvert** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 259.86' / 259.75' S= 0.0061 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.07 hrs HW=260.44' TW=260.31' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.66 cfs @ 2.02 fps)

Summary for Pond CB 21:

Inflow Area = 0.104 ac, 75.49% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.41 cfs @ 12.07 hrs, Volume= 0.027 af
Outflow = 0.41 cfs @ 12.07 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.07 hrs, Volume= 0.027 af
Routed to Pond 140 : DMH 140

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 260.37' @ 12.09 hrs
Flood Elev= 263.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	259.86'	**12.0" Round Culvert** L= 11.0' Ke= 0.500 Inlet / Outlet Invert= 259.86' / 259.75' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.38 cfs @ 12.07 hrs HW=260.37' TW=260.31' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.38 cfs @ 1.38 fps)

Summary for Pond CB 22:

Inflow Area = 0.028 ac, 71.72% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af
Outflow = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.07 hrs, Volume= 0.007 af
Routed to Pond 141 : DMH 141

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 262.16' @ 12.07 hrs
Flood Elev= 266.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	262.00'	**12.0" Round Culvert** L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 262.00' / 261.84' S= 0.0114 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.11 cfs @ 12.07 hrs HW=262.16' TW=259.70' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.11 cfs @ 2.04 fps)

Summary for Pond CB 3:

Inflow Area = 0.022 ac, 73.06% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af
Outflow = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af
Routed to Pond 101 : DMH 101

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 265.68' @ 12.07 hrs
Flood Elev= 269.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	265.54'	**12.0" Round Culvert** L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 265.54' / 265.38' S= 0.0114 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.08 cfs @ 12.07 hrs HW=265.68' TW=263.28' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.08 cfs @ 1.27 fps)

Summary for Pond CB 4:

Inflow Area = 0.017 ac, 65.56% Impervious, Inflow Depth > 2.73" for 10-year event
Inflow = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af
Outflow = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af
Routed to Pond 101 : DMH 101

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 265.66' @ 12.07 hrs
Flood Elev= 269.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	265.54'	**12.0" Round Culvert** L= 9.0' Ke= 0.500 Inlet / Outlet Invert= 265.54' / 265.43' S= 0.0122 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.06 cfs @ 12.07 hrs HW=265.66' TW=263.28' (Dynamic Tailwater)
1=Culvert (Barrel Controls 0.06 cfs @ 1.75 fps)

Summary for Pond CB 5:

Inflow Area = 0.179 ac, 74.86% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.70 cfs @ 12.07 hrs, Volume= 0.046 af
Outflow = 0.70 cfs @ 12.07 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.70 cfs @ 12.07 hrs, Volume= 0.046 af
Routed to Pond 103 : DMH 103

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Peak Elev= 264.58' @ 12.08 hrs
Flood Elev= 268.07'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.07'	**12.0" Round Culvert** L= 19.0' Ke= 0.500 Inlet / Outlet Invert= 264.07' / 263.83' S= 0.0126 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.07 hrs HW=264.57' TW=264.37' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.69 cfs @ 2.52 fps)

Summary for Pond CB 6:

Inflow Area = 0.134 ac, 68.72% Impervious, Inflow Depth > 2.82" for 10-year event
Inflow = 0.48 cfs @ 12.07 hrs, Volume= 0.031 af
Outflow = 0.48 cfs @ 12.07 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 12.07 hrs, Volume= 0.031 af
Routed to Pond 103 : DMH 103

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 264.51' @ 12.08 hrs
Flood Elev= 268.07'

Device	Routing	Invert	Outlet Devices
#1	Primary	264.07'	**12.0" Round Culvert** L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 264.07' / 263.83' S= 0.0160 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 12.07 hrs HW=264.51' TW=264.37' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.47 cfs @ 2.10 fps)

Summary for Pond CB 7:

Inflow Area = 0.071 ac, 74.35% Impervious, Inflow Depth > 3.11" for 10-year event
Inflow = 0.28 cfs @ 12.07 hrs, Volume= 0.018 af
Outflow = 0.28 cfs @ 12.07 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.07 hrs, Volume= 0.018 af
Routed to Pond 120 : DMH 120

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 267.66' @ 12.08 hrs
Flood Elev= 275.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	267.30'	**12.0" Round Culvert** L= 9.0' Ke= 0.500 Inlet / Outlet Invert= 267.30' / 267.20' S= 0.0111 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.07 hrs HW=267.66' TW=267.58' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.27 cfs @ 1.61 fps)

Summary for Pond CB 8:

Inflow Area = 0.054 ac, 67.88% Impervious, Inflow Depth > 2.82" for 10-year event
Inflow = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 120 : DMH 120

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 267.65' @ 12.08 hrs
Flood Elev= 275.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	267.35'	**12.0" Round Culvert** L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 267.35' / 267.20' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.07 hrs HW=267.65' TW=267.58' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.19 cfs @ 1.42 fps)

Summary for Pond CB 9:

Inflow Area = 0.065 ac, 73.89% Impervious, Inflow Depth > 3.01" for 10-year event
Inflow = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af
Outflow = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.25 cfs @ 12.07 hrs, Volume= 0.016 af
Routed to Pond 111 : DMH 110

Routing by Dyn-Stor-Ind method, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs
Peak Elev= 270.87' @ 12.08 hrs
Flood Elev= 277.18'

Device	Routing	Invert	Outlet Devices
#1	Primary	270.45'	**12.0" Round Culvert** L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 270.45' / 270.35' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.07 hrs HW=270.86' TW=270.83' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.24 cfs @ 1.14 fps)

Summary for Link A: Design Point

Inflow Area = 6.419 ac, 12.22% Impervious, Inflow Depth > 0.39" for 10-year event
Inflow = 1.43 cfs @ 12.37 hrs, Volume= 0.211 af
Primary = 1.43 cfs @ 12.37 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Summary for Link B: Design Point

Inflow Area = 1.926 ac, 5.73% Impervious, Inflow Depth > 1.02" for 10-year event
Inflow = 1.61 cfs @ 12.27 hrs, Volume= 0.164 af
Primary = 1.61 cfs @ 12.27 hrs, Volume= 0.164 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs

Summary for Link C: Design Point

Inflow Area = 7.499 ac, 7.32% Impervious, Inflow Depth > 0.80" for 10-year event
Inflow = 3.15 cfs @ 12.55 hrs, Volume= 0.499 af
Primary = 3.15 cfs @ 12.55 hrs, Volume= 0.499 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 1.00-20.00 hrs, dt= 0.01 hrs