

Stormwater Management Calculations For:

**Proposed Facility
1619 County Highway XX & 2409 Tower Road
Village of Kronenwetter
Marathon County, WI**

REI #10453B

**Prepared For:
Ruedebusch Development & Construction, Inc.
4605 Dovetail Dr
Madison, WI 53704**

1/30/2026

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Section 1.0 - Stormwater Calculations Overview

Software: HydroCAD Version 10.20-8a

Rainfall NRCS Rainfall Distributions and 24-hour Duration Rainfall Depths for each Marathon

Reference: County, Wisconsin

Distribution: MSE 3

State Stormwater (WDNR) Developed condition shall not exceed the Pre-Developed condition for the 1-

Requirements: yr and 2-yr rainfall events and pass the 100-yr safely.

Other

Stormwater

Requirements:

(Village of Kronenwetter) Developed condition shall not exceed the Pre-Developed condition for the 10-yr rainfall events

**Table 1
Peak Flow Summary**

Development Condition	Composite Curve Number	1-yr Storm Peak Flow	2-yr Storm Peak Flow	10-yr Storm Peak Flow
Pre-Development	36	0.00	0.00	0.01
Post-Development	84	0.38	0.44	1.38

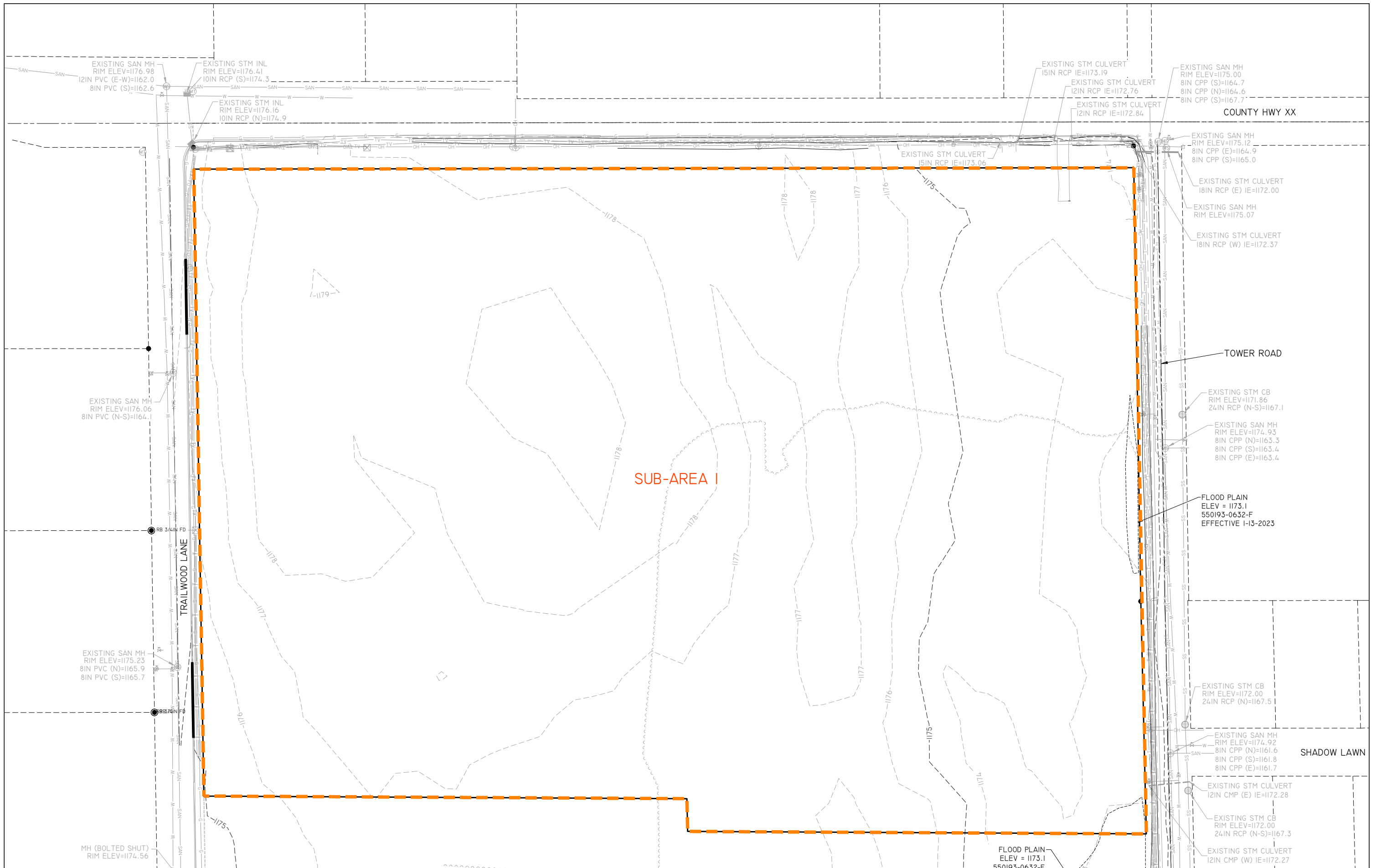
note: peak flow units are in cfs

**Table 2
100-year Peak Water Elevation**

Stormwater Device	100-Year Peak Elevation	Top of Pond Elevation	Overflow Elevation
Infiltration Pond 1	1176.31	1177.00	1176.50
Infiltration Pond 2	1174.82	1175.00	1174.00
Infiltration Pond 3	1174.86	1175.00	1174.00

Section 2.0

Existing Watershed Areas



EXISTING SAN MH RIM ELEV=1176.98
12IN PVC (E-W)=1162.0
8IN PVC (S)=1162.6

EXISTING STM INL RIM ELEV=1176.41
10IN RCP (S)=1174.3

EXISTING STM INL RIM ELEV=1176.16
10IN RCP (N)=1174.9

EXISTING STM CULVERT 15IN RCP IE=1173.19

EXISTING STM CULVERT 12IN RCP IE=1172.76

EXISTING STM CULVERT 12IN RCP IE=1172.84

EXISTING SAN MH RIM ELEV=1175.00
8IN CPP (S)=1164.7
8IN CPP (N)=1164.6
8IN CPP (S)=1167.7

EXISTING SAN MH RIM ELEV=1175.12
8IN CPP (E)=1164.9
8IN CPP (S)=1165.0

EXISTING STM CULVERT 18IN RCP (E) IE=1172.00

EXISTING SAN MH RIM ELEV=1175.07

EXISTING STM CULVERT 18IN RCP (W) IE=1172.37

EXISTING SAN MH RIM ELEV=1176.06
8IN PVC (N-S)=1164.1

EXISTING STM CB RIM ELEV=1171.86
24IN RCP (N-S)=1167.1

EXISTING SAN MH RIM ELEV=1174.93
8IN CPP (N)=1163.3
8IN CPP (S)=1163.4
8IN CPP (E)=1163.4

FLOOD PLAIN ELEV = 1173.1
550193-0632-F
EFFECTIVE 1-13-2023

EXISTING SAN MH RIM ELEV=1175.23
8IN PVC (N)=1165.9
8IN PVC (S)=1165.7

EXISTING STM CB RIM ELEV=1172.00
24IN RCP (N)=1167.5

EXISTING SAN MH RIM ELEV=1174.92
8IN CPP (N)=1161.6
8IN CPP (S)=1161.8
8IN CPP (E)=1161.7

EXISTING STM CULVERT 12IN CMP (E) IE=1172.28

EXISTING STM CB RIM ELEV=1172.00
24IN RCP (N-S)=1167.3

EXISTING STM CULVERT 12IN CMP (W) IE=1172.27

MH (BOLTED SHUT) RIM ELEV=1174.56

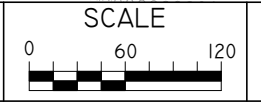
FLOOD PLAIN ELEV = 1173.1
550193-0632-F

SUB-AREA I

REI Engineering, INC.
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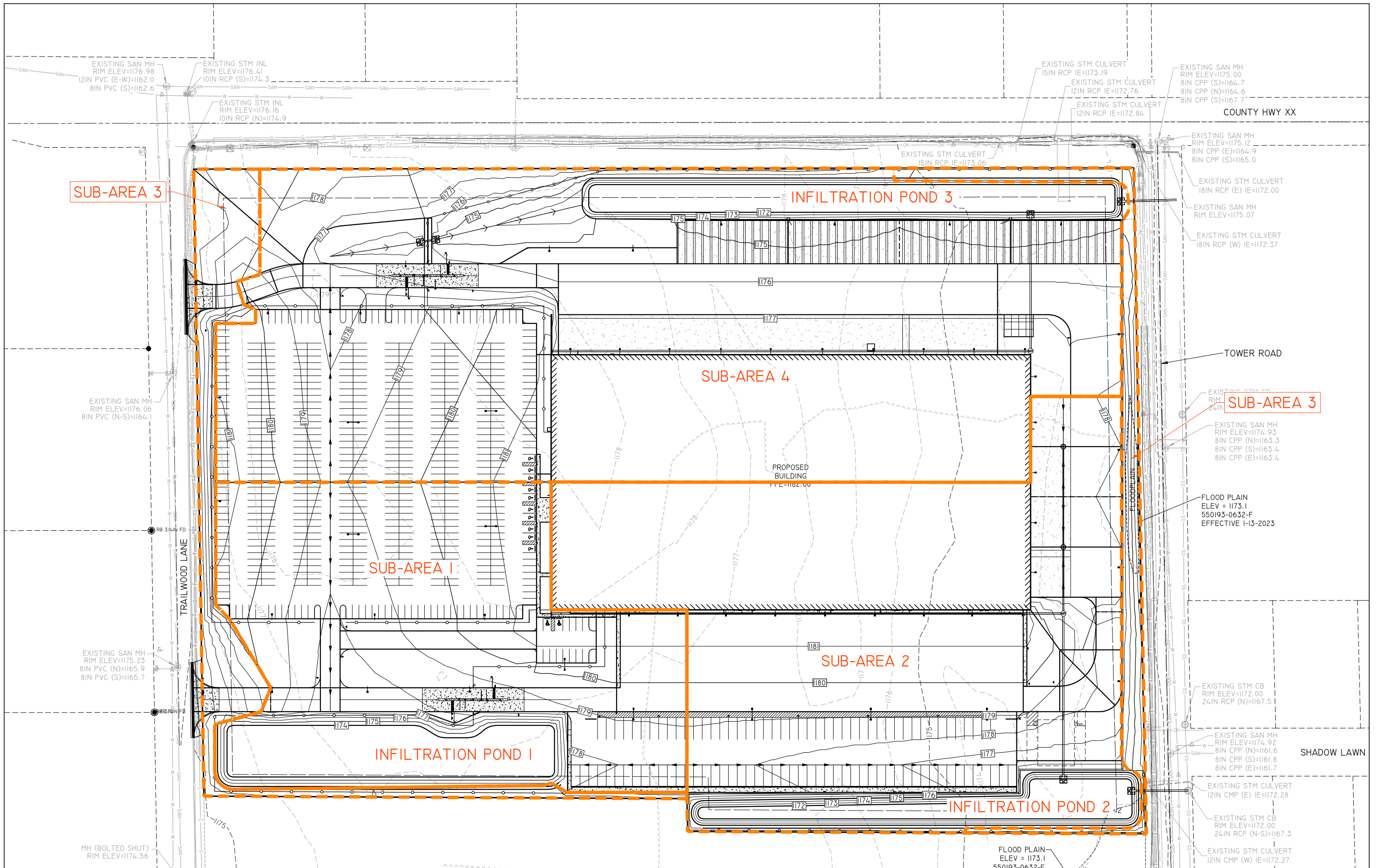
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				SURVEY CHKD BY: JWP	CIVIL CHKD BY:	CIVIL DATE: 01/30/2026
				SURVEY APVD BY: JWP	CIVIL APVD BY:	DRAWN BY: AMK

EXISTING WATERSHED AREAS
PROPOSED FACILITY
COUNTY HIGHWAY XX
VILLAGE OF KRONENWETTER, WISCONSIN

REI
REI No. 10453B
SHEET N/A

Section 3.0

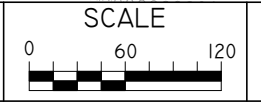
Proposed Watershed Areas



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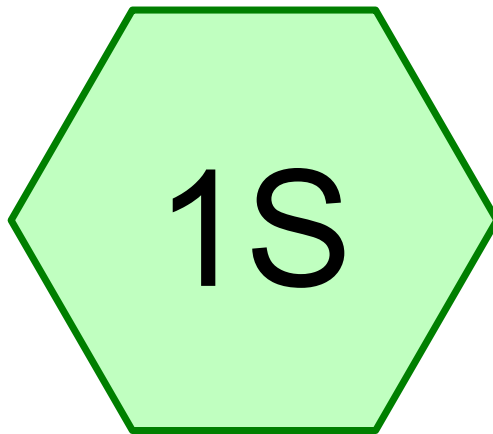
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				SURVEY CHKD BY: JWP	CIVIL CHKD BY:	CIVIL DATE: 01/30/2026
				SURVEY APVD BY: JWP	CIVIL APVD BY:	DRAWN BY: AMK

PROPOSED WATERSHED AREAS
 PROPOSED FACILITY
 COUNTY HIGHWAY XX
 VILLAGE OF KRONENWETTER, WISCONSIN

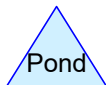
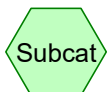
REI
 REI No. 10453B
 SHEET N/A

Section 4.0

Pre-Development Conditions Peak Flow Analysis



Sub-Area 1



10453B-Pre

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Page 3

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
17.614	39	>75% Grass cover, Good, HSG A (1S)
0.016	98	Paved driveway, HSG B (1S)
0.001	98	Roofs, HSG A (1S)
8.514	30	Woods, Good, HSG A (1S)
26.145	36	TOTAL AREA

10453B-Pre

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MSE 24-hr 3 1-Year Rainfall=2.27"

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Page 4

Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 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

Subcatchment1S: Sub-Area 1

Runoff Area=26.145 ac 0.07% Impervious Runoff Depth=0.00"
Flow Length=430' Tc=15.8 min CN=36 Runoff=0.00 cfs 0.000 af

Total Runoff Area = 26.145 ac Runoff Volume = 0.000 af Average Runoff Depth = 0.00"
99.93% Pervious = 26.128 ac 0.07% Impervious = 0.017 ac

Summary for Subcatchment 1S: Sub-Area 1

[45] Hint: Runoff=Zero

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

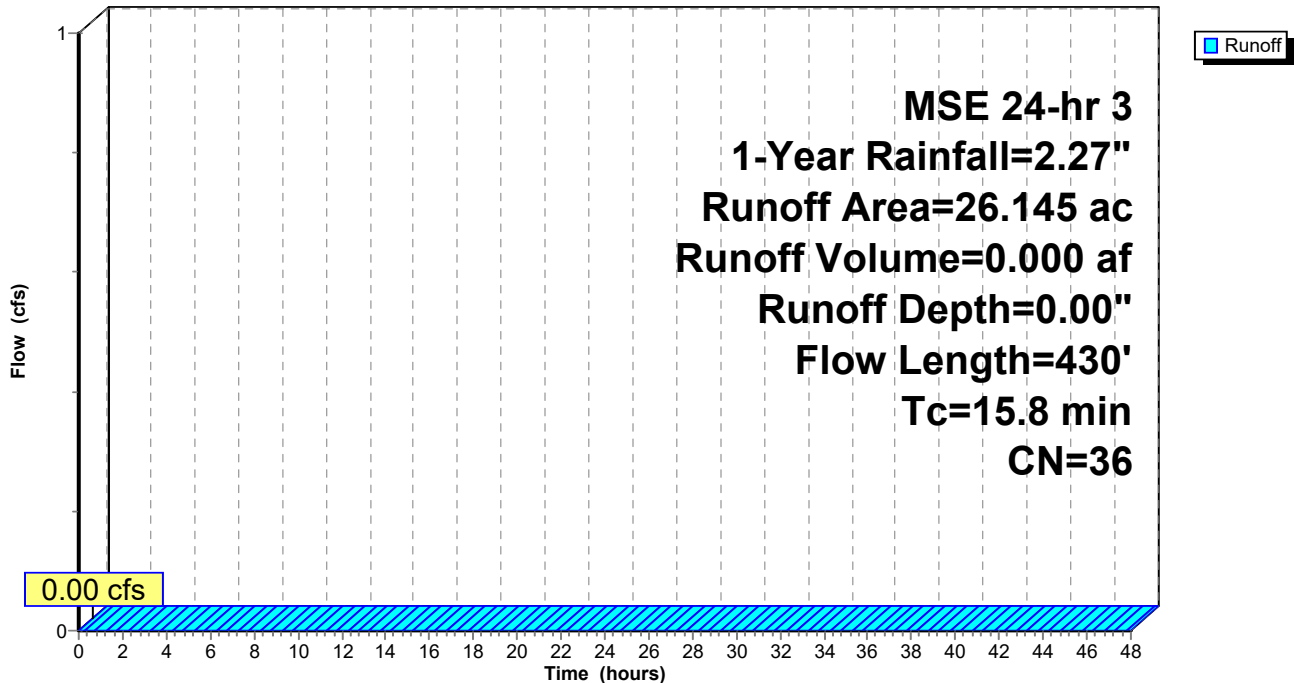
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 1-Year Rainfall=2.27"

Area (ac)	CN	Description
8.514	30	Woods, Good, HSG A
17.614	39	>75% Grass cover, Good, HSG A
0.001	98	Roofs, HSG A
* 0.016	98	Paved driveway, HSG B
26.145	36	Weighted Average
26.128		99.93% Pervious Area
0.017		0.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.7	100	0.0135	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 2.61"
3.1	330	0.0119	1.76		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
15.8	430	Total			

Subcatchment 1S: Sub-Area 1

Hydrograph



10453B-Pre

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MSE 24-hr 3 2-Year Rainfall=2.61"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 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

Subcatchment1S: Sub-Area 1

Runoff Area=26.145 ac 0.07% Impervious Runoff Depth=0.00"
Flow Length=430' Tc=15.8 min CN=36 Runoff=0.00 cfs 0.000 af

Total Runoff Area = 26.145 ac Runoff Volume = 0.000 af Average Runoff Depth = 0.00"
99.93% Pervious = 26.128 ac 0.07% Impervious = 0.017 ac

10453B-Pre

MSE 24-hr 3 10-Year Rainfall=3.73"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 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

Subcatchment1S: Sub-Area 1

Runoff Area=26.145 ac 0.07% Impervious Runoff Depth=0.00"
Flow Length=430' Tc=15.8 min CN=36 Runoff=0.01 cfs 0.004 af

Total Runoff Area = 26.145 ac Runoff Volume = 0.004 af Average Runoff Depth = 0.00"
99.93% Pervious = 26.128 ac 0.07% Impervious = 0.017 ac

10453B-Pre

MSE 24-hr 3 100-Year Rainfall=5.85"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 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

Subcatchment1S: Sub-Area 1

Runoff Area=26.145 ac 0.07% Impervious Runoff Depth=0.26"
Flow Length=430' Tc=15.8 min CN=36 Runoff=2.45 cfs 0.571 af

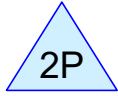
Total Runoff Area = 26.145 ac Runoff Volume = 0.571 af Average Runoff Depth = 0.26"
99.93% Pervious = 26.128 ac 0.07% Impervious = 0.017 ac

Section 5.0

Post-Development Conditions Peak Flow Analysis



Sub Area 1



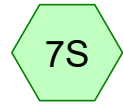
Infiltration Pond 1



Sub Area 2



Infiltration Pond 2



Sub-Area 4



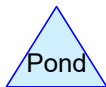
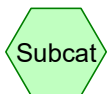
Infiltration Pond 3



Sub Area 3



Post-Development
Runoff



Routing Diagram for 10453B-Post
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10453B-Post

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
6.211	39	>75% Grass cover, Good, HSG A (1S, 3S, 6S, 7S)
0.101	98	Paved Sidewalk, HSG A (1S)
12.834	98	Paved parking, HSG A (1S, 3S, 6S, 7S)
2.654	98	Roofs (3S)
2.649	98	Roofs, HSG A (7S)
0.088	98	Sidewalk, HSG A (3S)
1.609	98	Water Surface, 0% imp, HSG A (1S, 3S, 7S)
26.145	84	TOTAL AREA

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MSE 24-hr 3 1-Year Rainfall=2.27"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Sub Area 1 Runoff Area=223,614 sf 65.08% Impervious Runoff Depth=1.61"
 Tc=6.0 min CN=WQ Runoff=12.95 cfs 0.688 af

Subcatchment3S: Sub Area 2 Runoff Area=335,580 sf 81.99% Impervious Runoff Depth=1.77"
 Tc=6.0 min CN=WQ Runoff=21.42 cfs 1.139 af

Subcatchment6S: Sub Area 3 Runoff Area=74,938 sf 6.85% Impervious Runoff Depth=0.14"
 Tc=6.0 min CN=WQ Runoff=0.38 cfs 0.020 af

Subcatchment7S: Sub-Area 4 Runoff Area=504,741 sf 73.79% Impervious Runoff Depth=1.60"
 Tc=6.0 min CN=WQ Runoff=29.06 cfs 1.545 af

Pond 2P: Infiltration Pond 1 Peak Elev=1,174.27' Storage=8,567 cf Inflow=12.95 cfs 0.688 af
 Discarded=2.68 cfs 0.688 af Primary=0.00 cfs 0.000 af Outflow=2.68 cfs 0.688 af

Pond 6P: Infiltration Pond 2 Peak Elev=1,173.18' Storage=22,076 cf Inflow=21.42 cfs 1.139 af
 Discarded=1.77 cfs 1.139 af Primary=0.00 cfs 0.000 af Outflow=1.77 cfs 1.139 af

Pond 9P: Infiltration Pond 3 Peak Elev=1,173.19' Storage=29,999 cf Inflow=29.06 cfs 1.545 af
 Discarded=2.32 cfs 1.545 af Primary=0.00 cfs 0.000 af Outflow=2.32 cfs 1.545 af

Link 5L: Post-DevelopmentRunoff Inflow=0.38 cfs 0.020 af
 Primary=0.38 cfs 0.020 af

Total Runoff Area = 26.145 ac Runoff Volume = 3.392 af Average Runoff Depth = 1.56"
29.91% Pervious = 7.820 ac 70.09% Impervious = 18.325 ac

Summary for Subcatchment 1S: Sub Area 1

Runoff = 12.95 cfs @ 12.13 hrs, Volume= 0.688 af, Depth= 1.61"
 Routed to Pond 2P : Infiltration Pond 1

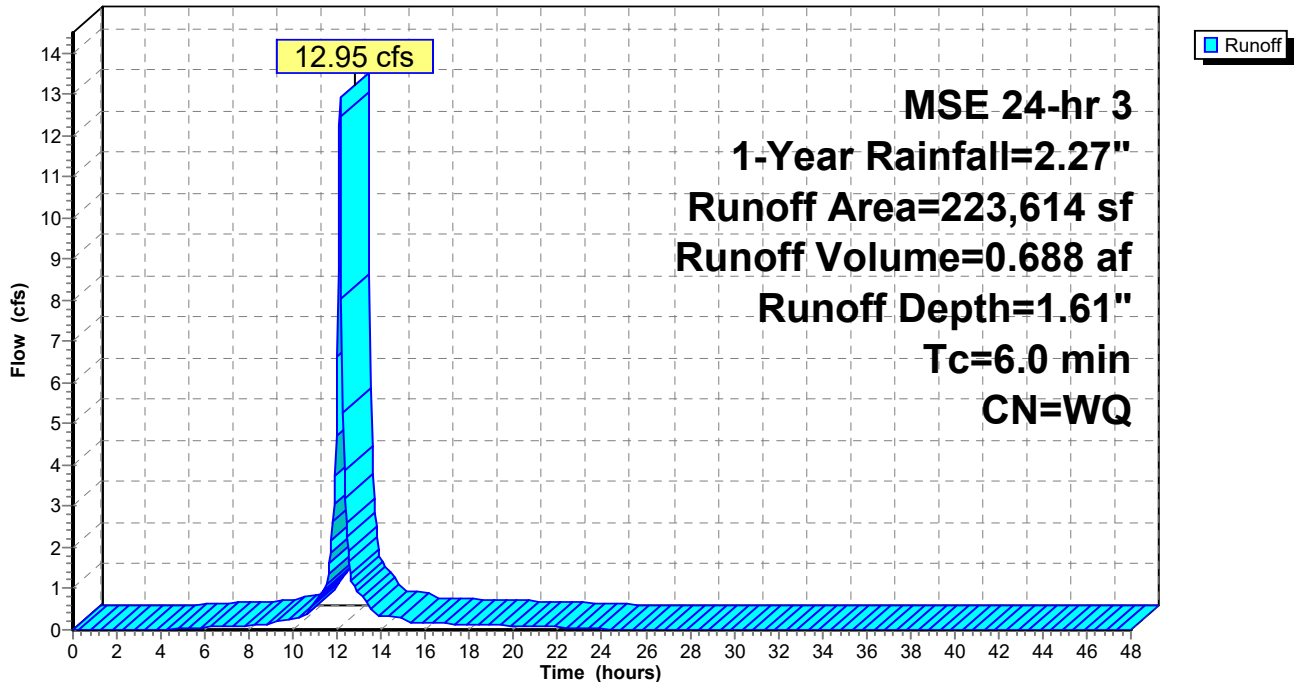
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 1-Year Rainfall=2.27"

Area (sf)	CN	Description
141,144	98	Paved parking, HSG A
47,436	39	>75% Grass cover, Good, HSG A
30,654	98	Water Surface, 0% imp, HSG A
* 4,380	98	Paved Sidewalk, HSG A
223,614		Weighted Average
78,090		34.92% Pervious Area
145,524		65.08% Impervious Area

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

Subcatchment 1S: Sub Area 1

Hydrograph



Summary for Subcatchment 3S: Sub Area 2

Runoff = 21.42 cfs @ 12.13 hrs, Volume= 1.139 af, Depth= 1.77"
 Routed to Pond 6P : Infiltration Pond 2

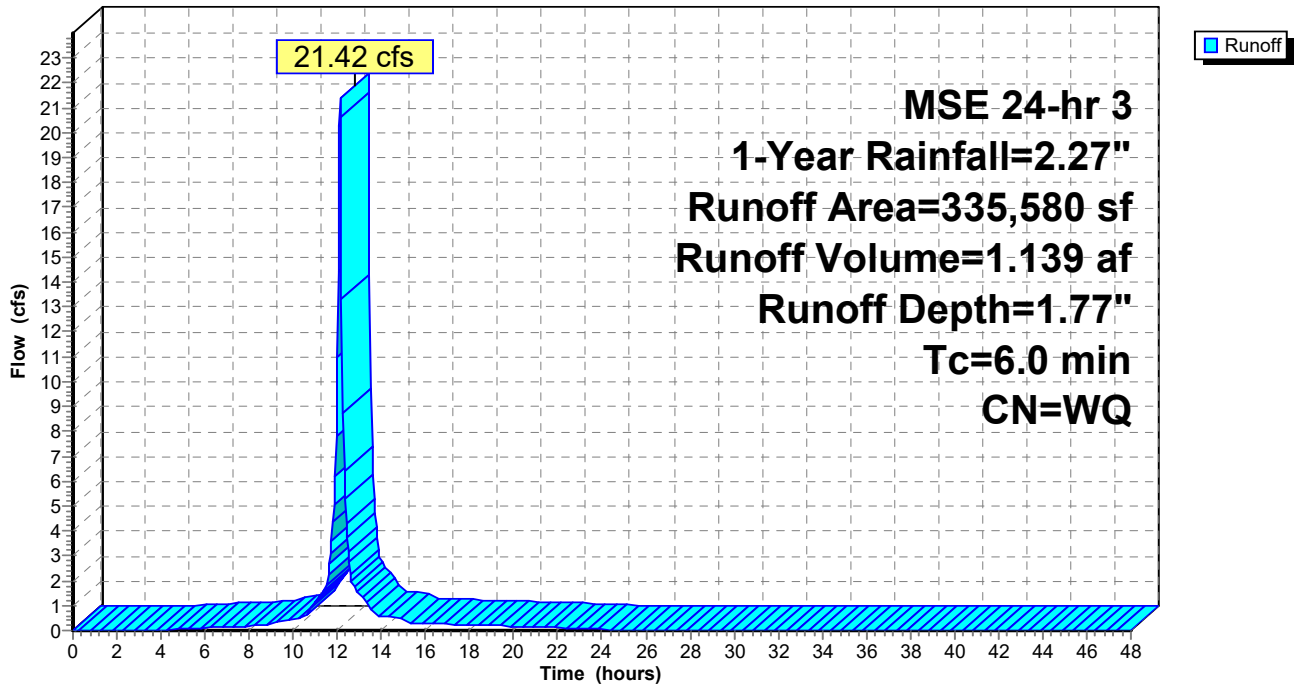
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 1-Year Rainfall=2.27"

	Area (sf)	CN	Description
*	115,596	98	Roofs
*	155,693	98	Paved parking, HSG A
*	3,850	98	Sidewalk, HSG A
*	44,022	39	>75% Grass cover, Good, HSG A
	16,419	98	Water Surface, 0% imp, HSG A
	335,580		Weighted Average
	60,441		18.01% Pervious Area
	275,139		81.99% Impervious Area

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

Subcatchment 3S: Sub Area 2

Hydrograph



Summary for Subcatchment 6S: Sub Area 3

Runoff = 0.38 cfs @ 12.13 hrs, Volume= 0.020 af, Depth= 0.14"
 Routed to Link 5L : Post-Development Runoff

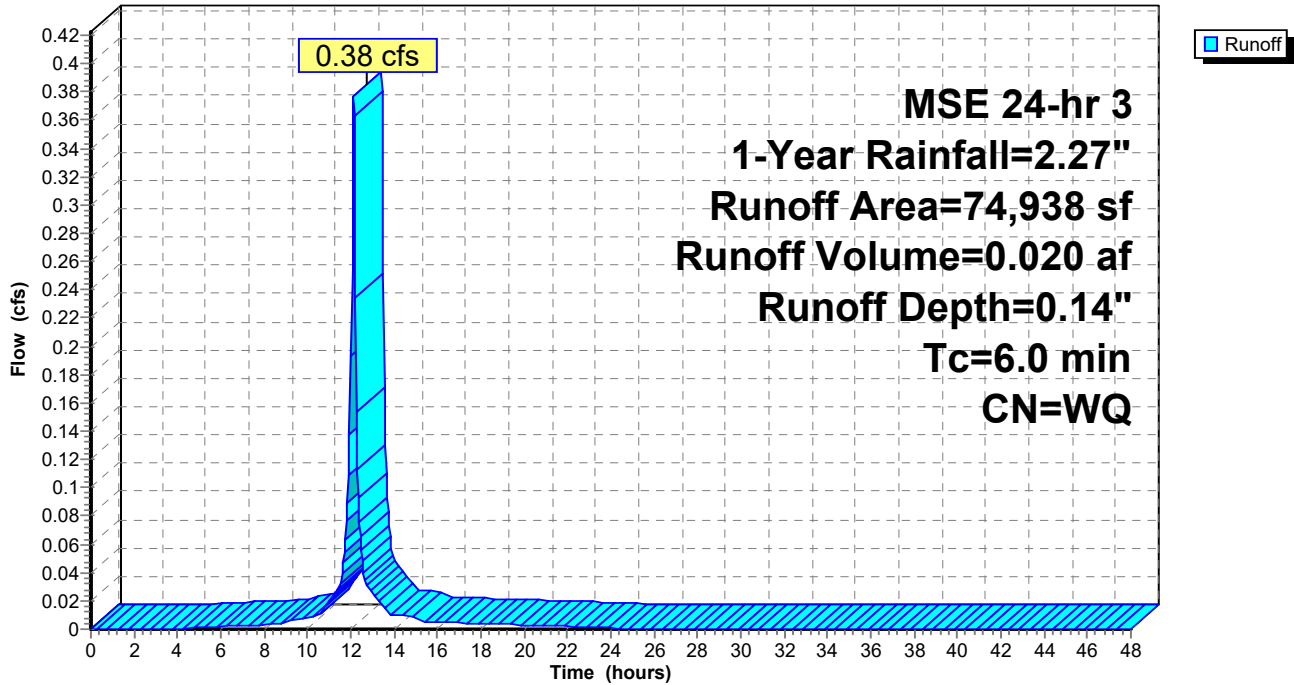
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 1-Year Rainfall=2.27"

Area (sf)	CN	Description
69,805	39	>75% Grass cover, Good, HSG A
5,133	98	Paved parking, HSG A
74,938		Weighted Average
69,805		93.15% Pervious Area
5,133		6.85% Impervious Area

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

Subcatchment 6S: Sub Area 3

Hydrograph



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MSE 24-hr 3 1-Year Rainfall=2.27"

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Summary for Subcatchment 7S: Sub-Area 4

Runoff = 29.06 cfs @ 12.13 hrs, Volume= 1.545 af, Depth= 1.60"
 Routed to Pond 9P : Infiltration Pond 3

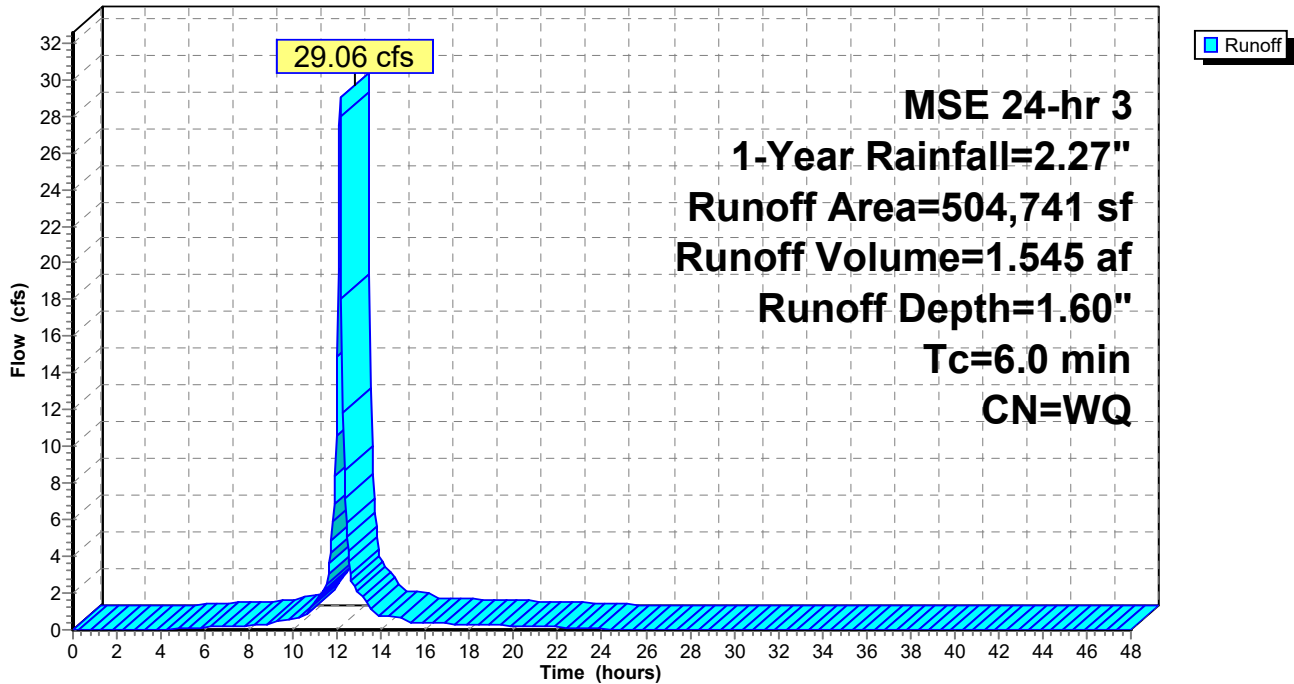
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 1-Year Rainfall=2.27"

Area (sf)	CN	Description
115,376	98	Roofs, HSG A
257,059	98	Paved parking, HSG A
109,277	39	>75% Grass cover, Good, HSG A
23,029	98	Water Surface, 0% imp, HSG A
504,741		Weighted Average
132,306		26.21% Pervious Area
372,435		73.79% Impervious Area

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

Subcatchment 7S: Sub-Area 4

Hydrograph



Summary for Pond 2P: Infiltration Pond 1

Inflow Area = 5.133 ac, 65.08% Impervious, Inflow Depth = 1.61" for 1-Year event
 Inflow = 12.95 cfs @ 12.13 hrs, Volume= 0.688 af
 Outflow = 2.68 cfs @ 12.40 hrs, Volume= 0.688 af, Atten= 79%, Lag= 16.2 min
 Discarded = 2.68 cfs @ 12.40 hrs, Volume= 0.688 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link 5L : Post-Development Runoff

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,174.27' @ 12.40 hrs Surf.Area= 31,966 sf Storage= 8,567 cf

Plug-Flow detention time= 21.5 min calculated for 0.688 af (100% of inflow)
 Center-of-Mass det. time= 21.5 min (779.4 - 757.9)

Volume	Invert	Avail.Storage	Storage Description			
#1	1,174.00'	114,350 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)	
1,174.00	30,654	1,036.0	0	0	30,654	
1,175.00	35,583	1,069.0	33,088	33,088	36,281	
1,176.00	40,639	1,101.0	38,083	71,171	41,913	
1,177.00	45,771	1,127.0	43,180	114,350	46,655	

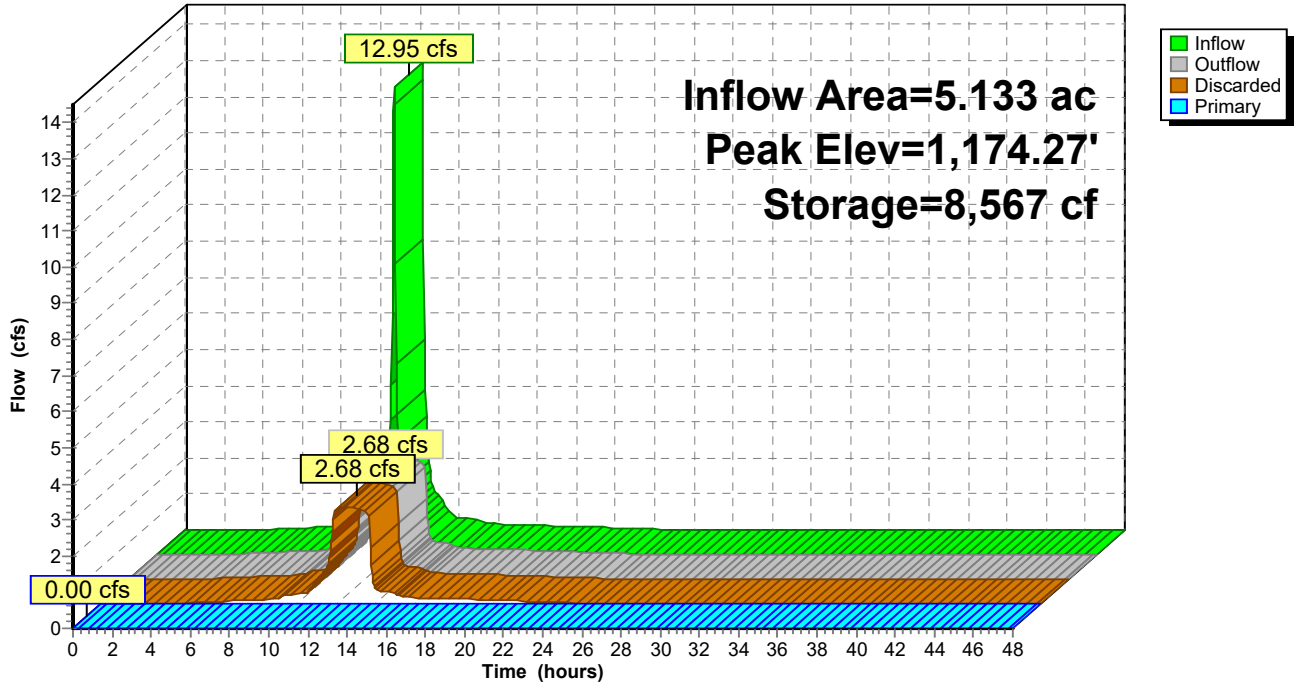
Device	Routing	Invert	Outlet Devices																		
#1	Primary	1,176.50'	10.0' long + 3.0 ' SideZ x 4.0' breadth Broad-Crested Rectangular Weir																		
			Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	
			Coef. (English)	2.38	2.54	2.69	2.68	2.67	2.67	2.65	2.66	2.66	2.66	2.68	2.72	2.73	2.76	2.79	2.88	3.07	3.32
#2	Discarded	1,174.00'	3.600 in/hr Exfiltration over Wetted area																		

Discarded OutFlow Max=2.68 cfs @ 12.40 hrs HW=1,174.27' (Free Discharge)
 ↑2=Exfiltration (Exfiltration Controls 2.68 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,174.00' (Free Discharge)
 ↑1=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond 2P: Infiltration Pond 1

Hydrograph



10453B-Post

MSE 24-hr 3 1-Year Rainfall=2.27"

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Summary for Pond 6P: Infiltration Pond 2

Inflow Area = 7.704 ac, 81.99% Impervious, Inflow Depth = 1.77" for 1-Year event
 Inflow = 21.42 cfs @ 12.13 hrs, Volume= 1.139 af
 Outflow = 1.77 cfs @ 12.76 hrs, Volume= 1.139 af, Atten= 92%, Lag= 38.2 min
 Discarded = 1.77 cfs @ 12.76 hrs, Volume= 1.139 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link 5L : Post-Development Runoff

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,173.18' @ 12.76 hrs Surf.Area= 20,961 sf Storage= 22,076 cf

Plug-Flow detention time= 100.5 min calculated for 1.139 af (100% of inflow)
 Center-of-Mass det. time= 100.5 min (858.4 - 757.9)

Volume	Invert	Avail.Storage	Storage Description			
#1	1,172.00'	66,646 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)	
1,172.00	16,419	1,275.0	0	0	16,419	
1,173.00	20,273	1,294.0	18,312	18,312	20,510	
1,174.00	24,180	1,313.0	22,198	40,510	24,662	
1,175.00	28,142	1,332.0	26,136	66,646	28,874	

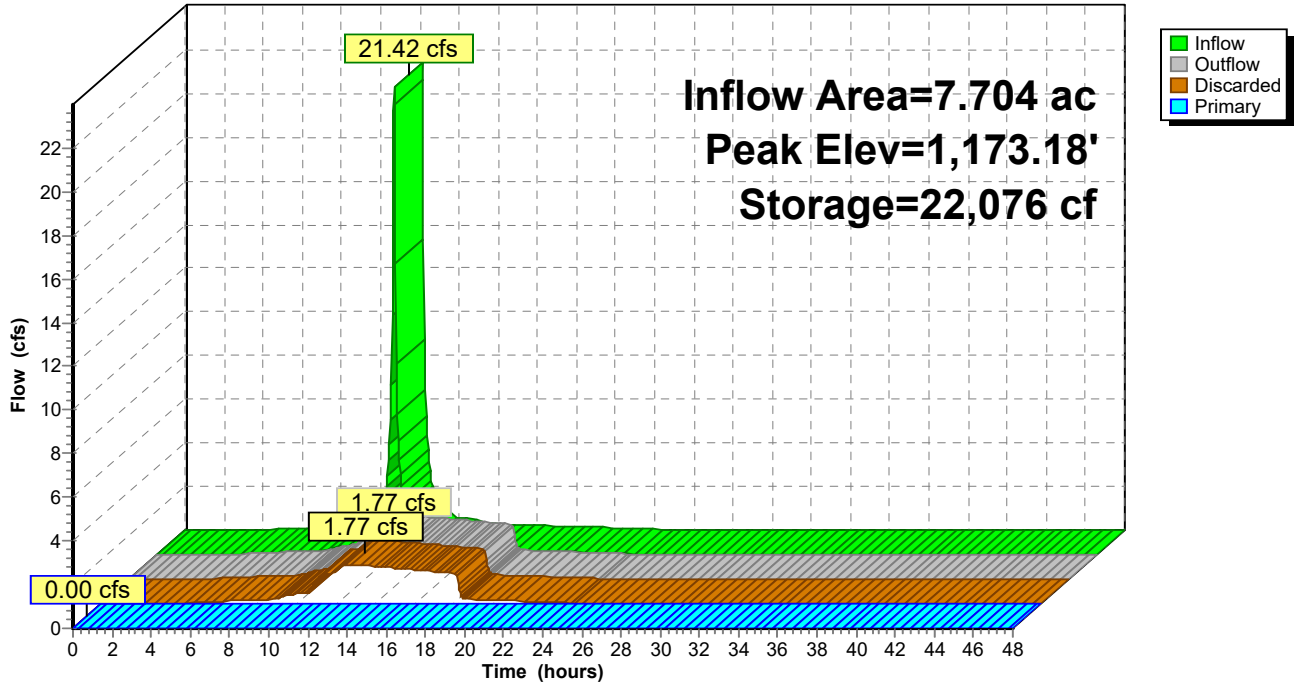
Device	Routing	Invert	Outlet Devices												
#1	Primary	1,174.00'	8.0' long + 3.0 ' SideZ x 4.0' breadth Broad-Crested Rectangular Weir												
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00												
			2.50 3.00 3.50 4.00 4.50 5.00 5.50												
			Coef. (English) 2.38 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												
#2	Discarded	1,172.00'	3.600 in/hr Exfiltration over Wetted area												

Discarded OutFlow Max=1.77 cfs @ 12.76 hrs HW=1,173.18' (Free Discharge)
 ↑**2=Exfiltration** (Exfiltration Controls 1.77 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,172.00' (Free Discharge)
 ↑**1=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 6P: Infiltration Pond 2

Hydrograph



10453B-Post

MSE 24-hr 3 1-Year Rainfall=2.27"

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Summary for Pond 9P: Infiltration Pond 3

Inflow Area = 11.587 ac, 73.79% Impervious, Inflow Depth = 1.60" for 1-Year event
 Inflow = 29.06 cfs @ 12.13 hrs, Volume= 1.545 af
 Outflow = 2.32 cfs @ 12.81 hrs, Volume= 1.545 af, Atten= 92%, Lag= 41.1 min
 Discarded = 2.32 cfs @ 12.81 hrs, Volume= 1.545 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link 5L : Post-Development Runoff

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,173.19' @ 12.81 hrs Surf.Area= 27,573 sf Storage= 29,999 cf

Plug-Flow detention time= 102.7 min calculated for 1.545 af (100% of inflow)
 Center-of-Mass det. time= 102.6 min (860.6 - 757.9)

Volume	Invert	Avail.Storage	Storage Description			
#1	1,172.00'	86,434 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)	
1,172.00	23,029	1,270.0	0	0	23,029	
1,173.00	26,867	1,289.0	24,923	24,923	27,104	
1,174.00	30,762	1,308.0	28,793	53,716	31,240	
1,175.00	34,714	1,327.0	32,718	86,434	35,436	

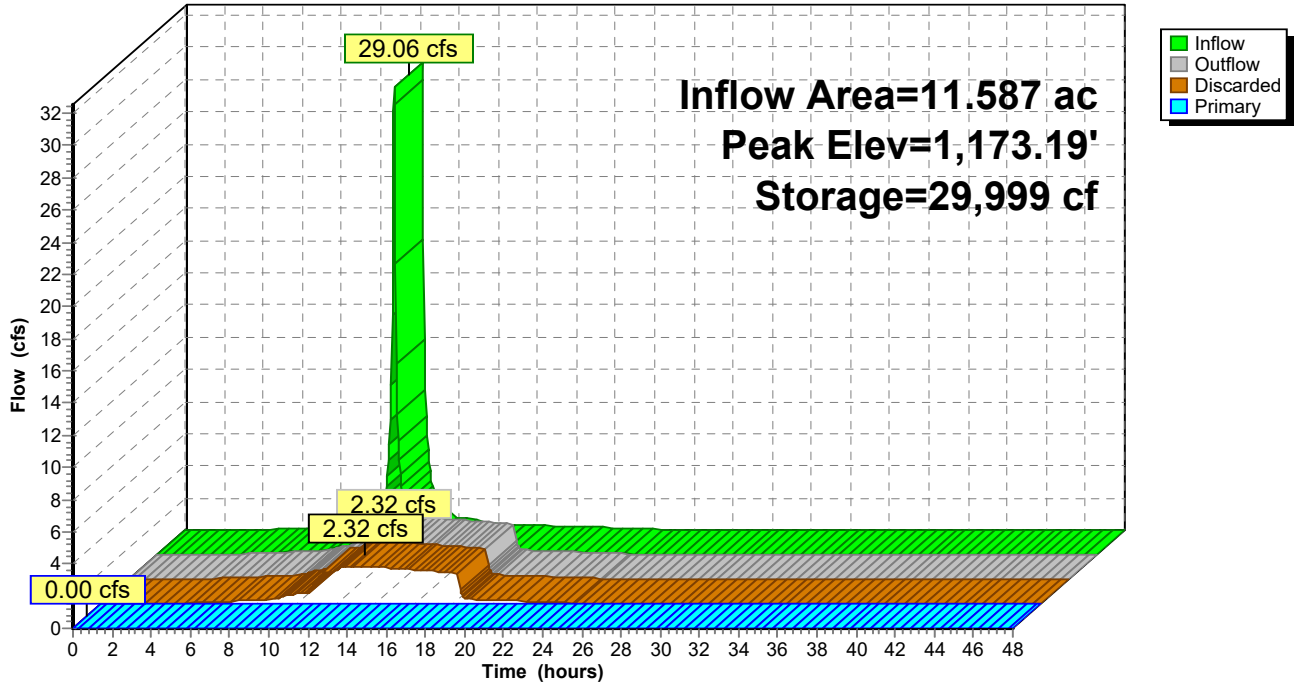
Device	Routing	Invert	Outlet Devices												
#1	Primary	1,174.00'	8.0' long + 3.0 ' SideZ x 4.0' breadth Broad-Crested Rectangular Weir												
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00												
			2.50 3.00 3.50 4.00 4.50 5.00 5.50												
			Coef. (English) 2.38 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												
#2	Discarded	1,172.00'	3.600 in/hr Exfiltration over Wetted area												

Discarded OutFlow Max=2.32 cfs @ 12.81 hrs HW=1,173.19' (Free Discharge)
 ↑**2=Exfiltration** (Exfiltration Controls 2.32 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,172.00' (Free Discharge)
 ↑**1=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 9P: Infiltration Pond 3

Hydrograph



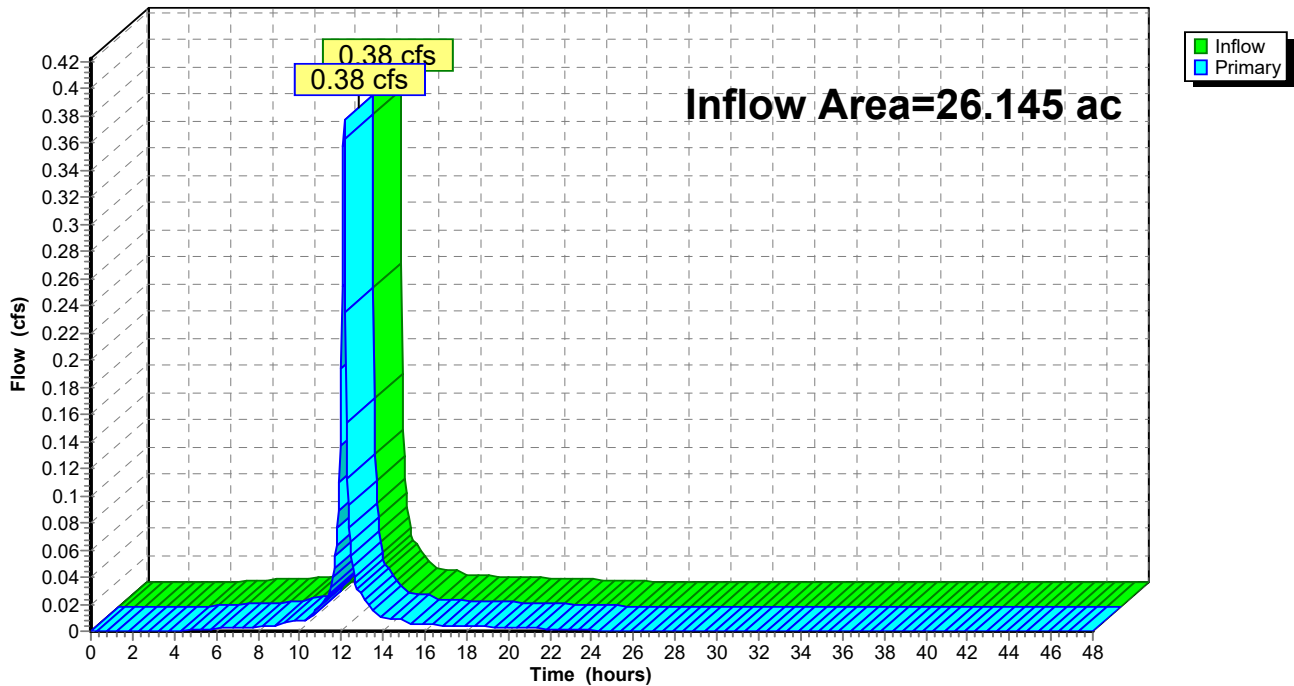
Summary for Link 5L: Post-Development Runoff

Inflow Area = 26.145 ac, 70.09% Impervious, Inflow Depth = 0.01" for 1-Year event
Inflow = 0.38 cfs @ 12.13 hrs, Volume= 0.020 af
Primary = 0.38 cfs @ 12.13 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs

Link 5L: Post-Development Runoff

Hydrograph



10453B-Post

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MSE 24-hr 3 2-Year Rainfall=2.61"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Sub Area 1	Runoff Area=223,614 sf 65.08% Impervious Runoff Depth=1.88" Tc=6.0 min CN=WQ Runoff=14.96 cfs 0.802 af
Subcatchment3S: Sub Area 2	Runoff Area=335,580 sf 81.99% Impervious Runoff Depth=2.07" Tc=6.0 min CN=WQ Runoff=24.76 cfs 1.328 af
Subcatchment6S: Sub Area 3	Runoff Area=74,938 sf 6.85% Impervious Runoff Depth=0.16" Tc=6.0 min CN=WQ Runoff=0.44 cfs 0.023 af
Subcatchment7S: Sub-Area 4	Runoff Area=504,741 sf 73.79% Impervious Runoff Depth=1.86" Tc=6.0 min CN=WQ Runoff=33.58 cfs 1.801 af
Pond 2P: Infiltration Pond 1	Peak Elev=1,174.34' Storage=10,702 cf Inflow=14.96 cfs 0.802 af Discarded=2.71 cfs 0.802 af Primary=0.00 cfs 0.000 af Outflow=2.71 cfs 0.802 af
Pond 6P: Infiltration Pond 2	Peak Elev=1,173.40' Storage=26,789 cf Inflow=24.76 cfs 1.328 af Discarded=1.85 cfs 1.328 af Primary=0.00 cfs 0.000 af Outflow=1.85 cfs 1.328 af
Pond 9P: Infiltration Pond 3	Peak Elev=1,173.42' Storage=36,482 cf Inflow=33.58 cfs 1.801 af Discarded=2.40 cfs 1.801 af Primary=0.00 cfs 0.000 af Outflow=2.40 cfs 1.801 af
Link 5L: Post-DevelopmentRunoff	Inflow=0.44 cfs 0.023 af Primary=0.44 cfs 0.023 af

Total Runoff Area = 26.145 ac Runoff Volume = 3.954 af Average Runoff Depth = 1.81"
29.91% Pervious = 7.820 ac 70.09% Impervious = 18.325 ac

10453B-Post

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MSE 24-hr 3 10-Year Rainfall=3.73"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Sub Area 1 Runoff Area=223,614 sf 65.08% Impervious Runoff Depth=2.76"
 Tc=6.0 min CN=WQ Runoff=21.57 cfs 1.180 af

Subcatchment3S: Sub Area 2 Runoff Area=335,580 sf 81.99% Impervious Runoff Depth=3.04"
 Tc=6.0 min CN=WQ Runoff=35.69 cfs 1.952 af

Subcatchment6S: Sub Area 3 Runoff Area=74,938 sf 6.85% Impervious Runoff Depth=0.26"
 Tc=6.0 min CN=WQ Runoff=0.63 cfs 0.037 af

Subcatchment7S: Sub-Area 4 Runoff Area=504,741 sf 73.79% Impervious Runoff Depth=2.74"
 Tc=6.0 min CN=WQ Runoff=48.41 cfs 2.649 af

Pond 2P: Infiltration Pond 1 Peak Elev=1,174.57' Storage=18,307 cf Inflow=21.57 cfs 1.180 af
 Discarded=2.82 cfs 1.180 af Primary=0.00 cfs 0.000 af Outflow=2.82 cfs 1.180 af

Pond 6P: Infiltration Pond 2 Peak Elev=1,174.08' Storage=42,509 cf Inflow=35.69 cfs 1.952 af
 Discarded=2.08 cfs 1.919 af Primary=0.47 cfs 0.033 af Outflow=2.55 cfs 1.952 af

Pond 9P: Infiltration Pond 3 Peak Elev=1,174.12' Storage=57,564 cf Inflow=48.41 cfs 2.649 af
 Discarded=2.65 cfs 2.579 af Primary=0.87 cfs 0.071 af Outflow=3.51 cfs 2.649 af

Link 5L: Post-DevelopmentRunoff Inflow=1.38 cfs 0.141 af
 Primary=1.38 cfs 0.141 af

Total Runoff Area = 26.145 ac Runoff Volume = 5.819 af Average Runoff Depth = 2.67"
29.91% Pervious = 7.820 ac 70.09% Impervious = 18.325 ac

10453B-Post

MSE 24-hr 3 100-Year Rainfall=5.85"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Sub Area 1 Runoff Area=223,614 sf 65.08% Impervious Runoff Depth=4.51"
 Tc=6.0 min CN=WQ Runoff=34.16 cfs 1.928 af

Subcatchment3S: Sub Area 2 Runoff Area=335,580 sf 81.99% Impervious Runoff Depth=4.93"
 Tc=6.0 min CN=WQ Runoff=56.41 cfs 3.164 af

Subcatchment6S: Sub Area 3 Runoff Area=74,938 sf 6.85% Impervious Runoff Depth=0.76"
 Tc=6.0 min CN=WQ Runoff=1.28 cfs 0.109 af

Subcatchment7S: Sub-Area 4 Runoff Area=504,741 sf 73.79% Impervious Runoff Depth=4.48"
 Tc=6.0 min CN=WQ Runoff=76.68 cfs 4.330 af

Pond 2P: Infiltration Pond 1 Peak Elev=1,175.04' Storage=34,423 cf Inflow=34.16 cfs 1.928 af
 Discarded=3.04 cfs 1.928 af Primary=0.00 cfs 0.000 af Outflow=3.04 cfs 1.928 af

Pond 6P: Infiltration Pond 2 Peak Elev=1,174.68' Storage=57,721 cf Inflow=56.41 cfs 3.164 af
 Discarded=2.29 cfs 2.357 af Primary=14.34 cfs 0.807 af Outflow=16.63 cfs 3.164 af

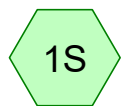
Pond 9P: Infiltration Pond 3 Peak Elev=1,174.78' Storage=79,034 cf Inflow=76.68 cfs 4.330 af
 Discarded=2.88 cfs 3.172 af Primary=18.40 cfs 1.158 af Outflow=21.27 cfs 4.330 af

Link 5L: Post-DevelopmentRunoff Inflow=33.43 cfs 2.073 af
 Primary=33.43 cfs 2.073 af

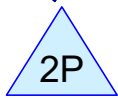
Total Runoff Area = 26.145 ac Runoff Volume = 9.531 af Average Runoff Depth = 4.37"
29.91% Pervious = 7.820 ac 70.09% Impervious = 18.325 ac

Section 6.0

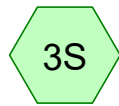
Detention Pond Safe Passage Analysis



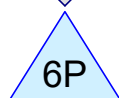
Sub Area 1



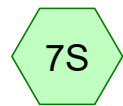
Infiltration Pond 1



Sub Area 2



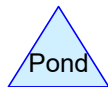
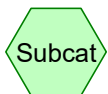
Infiltration Pond 2



Sub-Area 4



Infiltration Pond 3



10453B-Post Safe Passage 2026

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
4.608	39	>75% Grass cover, Good, HSG A (1S, 3S, 7S)
0.101	98	Paved Sidewalk, HSG A (1S)
12.716	98	Paved parking, HSG A (1S, 3S, 7S)
2.654	98	Roofs (3S)
2.649	98	Roofs, HSG A (7S)
0.088	98	Sidewalk, HSG A (3S)
1.609	98	Water Surface, 0% imp, HSG A (1S, 3S, 7S)
24.425	87	TOTAL AREA

10453B-Post Safe Passage 2026

MSE 24-hr 3 100-Year Rainfall=5.85"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Sub Area 1	Runoff Area=223,614 sf 65.08% Impervious Runoff Depth=4.51" Tc=6.0 min CN=WQ Runoff=34.16 cfs 1.928 af
Subcatchment3S: Sub Area 2	Runoff Area=335,580 sf 81.99% Impervious Runoff Depth=4.93" Tc=6.0 min CN=WQ Runoff=56.41 cfs 3.164 af
Subcatchment7S: Sub-Area 4	Runoff Area=504,741 sf 73.79% Impervious Runoff Depth=4.48" Tc=6.0 min CN=WQ Runoff=76.68 cfs 4.330 af
Pond 2P: Infiltration Pond 1	Peak Elev=1,176.31' Storage=83,988 cf Inflow=34.16 cfs 1.928 af Outflow=0.00 cfs 0.000 af
Pond 6P: Infiltration Pond 2	Peak Elev=1,174.82' Storage=61,729 cf Inflow=56.41 cfs 3.164 af Outflow=39.95 cfs 2.234 af
Pond 9P: Infiltration Pond 3	Peak Elev=1,174.86' Storage=101,850 cf Inflow=76.68 cfs 4.330 af Outflow=34.05 cfs 2.789 af

Total Runoff Area = 24.425 ac Runoff Volume = 9.422 af Average Runoff Depth = 4.63"
25.46% Pervious = 6.218 ac 74.54% Impervious = 18.207 ac

Summary for Subcatchment 1S: Sub Area 1

Runoff = 34.16 cfs @ 12.13 hrs, Volume= 1.928 af, Depth= 4.51"
 Routed to Pond 2P : Infiltration Pond 1

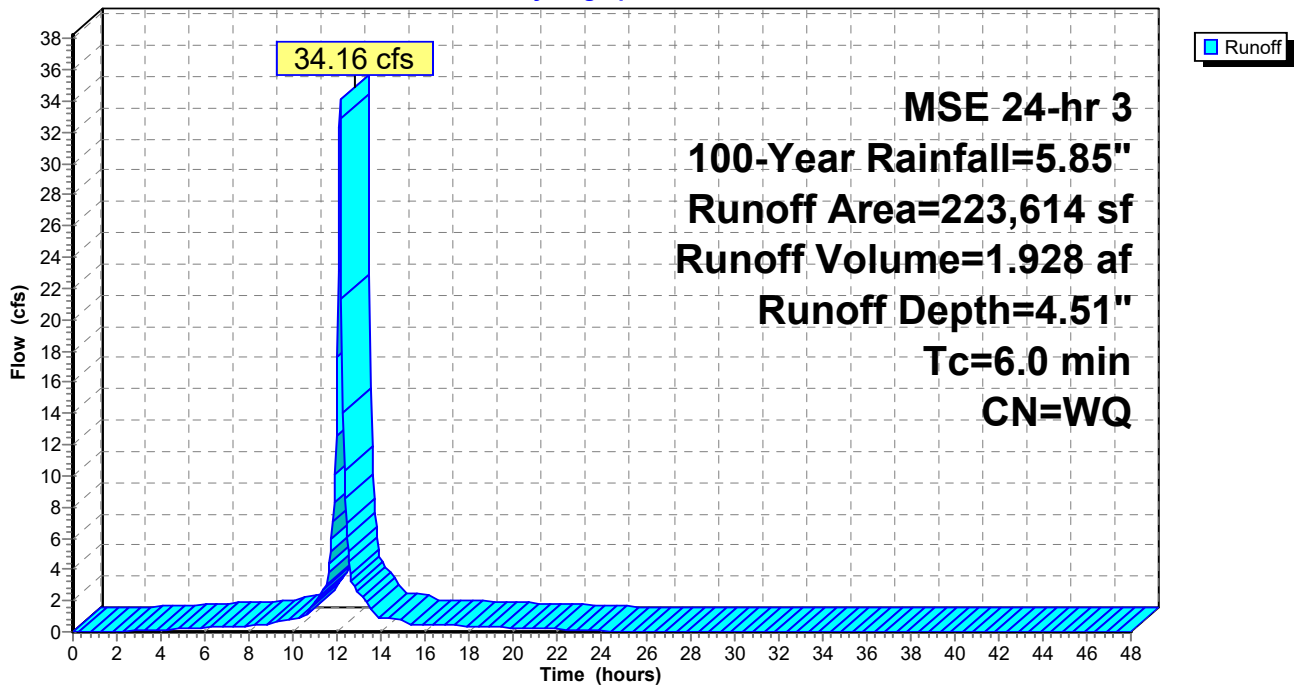
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 100-Year Rainfall=5.85"

Area (sf)	CN	Description
141,144	98	Paved parking, HSG A
47,436	39	>75% Grass cover, Good, HSG A
30,654	98	Water Surface, 0% imp, HSG A
* 4,380	98	Paved Sidewalk, HSG A
223,614		Weighted Average
78,090		34.92% Pervious Area
145,524		65.08% Impervious Area

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

Subcatchment 1S: Sub Area 1

Hydrograph



Summary for Subcatchment 3S: Sub Area 2

Runoff = 56.41 cfs @ 12.13 hrs, Volume= 3.164 af, Depth= 4.93"
 Routed to Pond 6P : Infiltration Pond 2

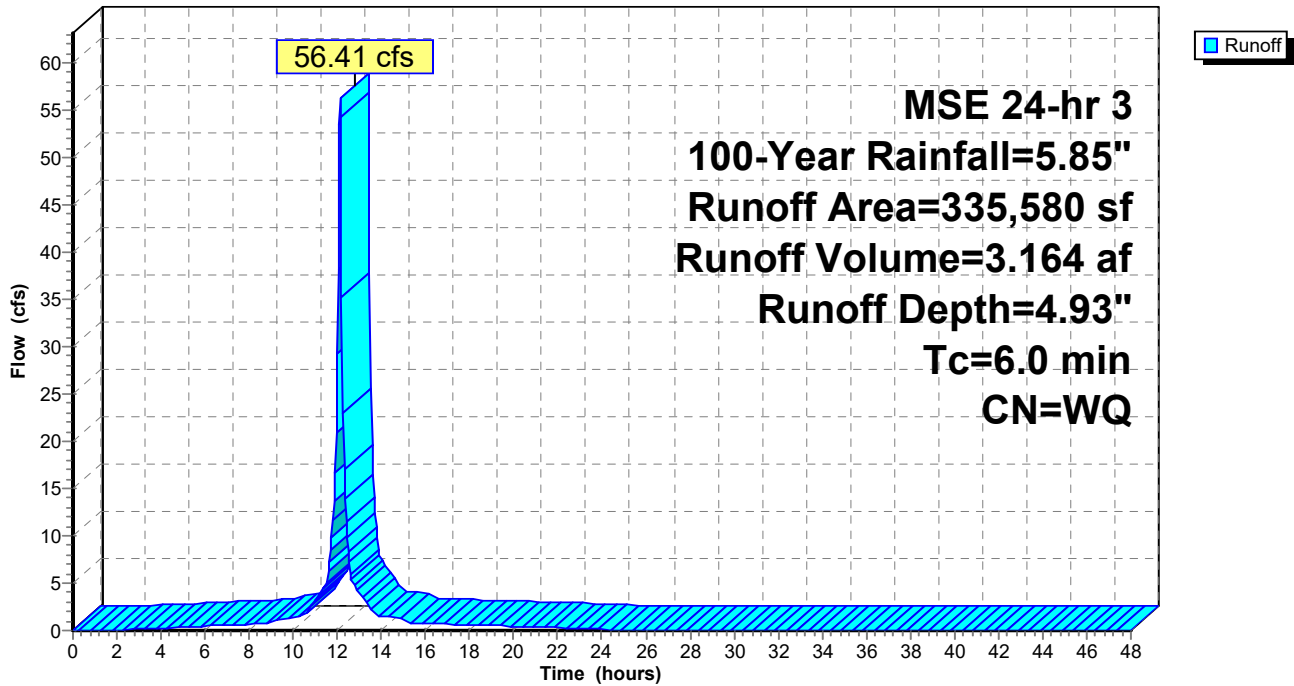
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 100-Year Rainfall=5.85"

	Area (sf)	CN	Description
*	115,596	98	Roofs
*	155,693	98	Paved parking, HSG A
*	3,850	98	Sidewalk, HSG A
*	44,022	39	>75% Grass cover, Good, HSG A
	16,419	98	Water Surface, 0% imp, HSG A
	335,580		Weighted Average
	60,441		18.01% Pervious Area
	275,139		81.99% Impervious Area

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

Subcatchment 3S: Sub Area 2

Hydrograph



Summary for Subcatchment 7S: Sub-Area 4

Runoff = 76.68 cfs @ 12.13 hrs, Volume= 4.330 af, Depth= 4.48"
 Routed to Pond 9P : Infiltration Pond 3

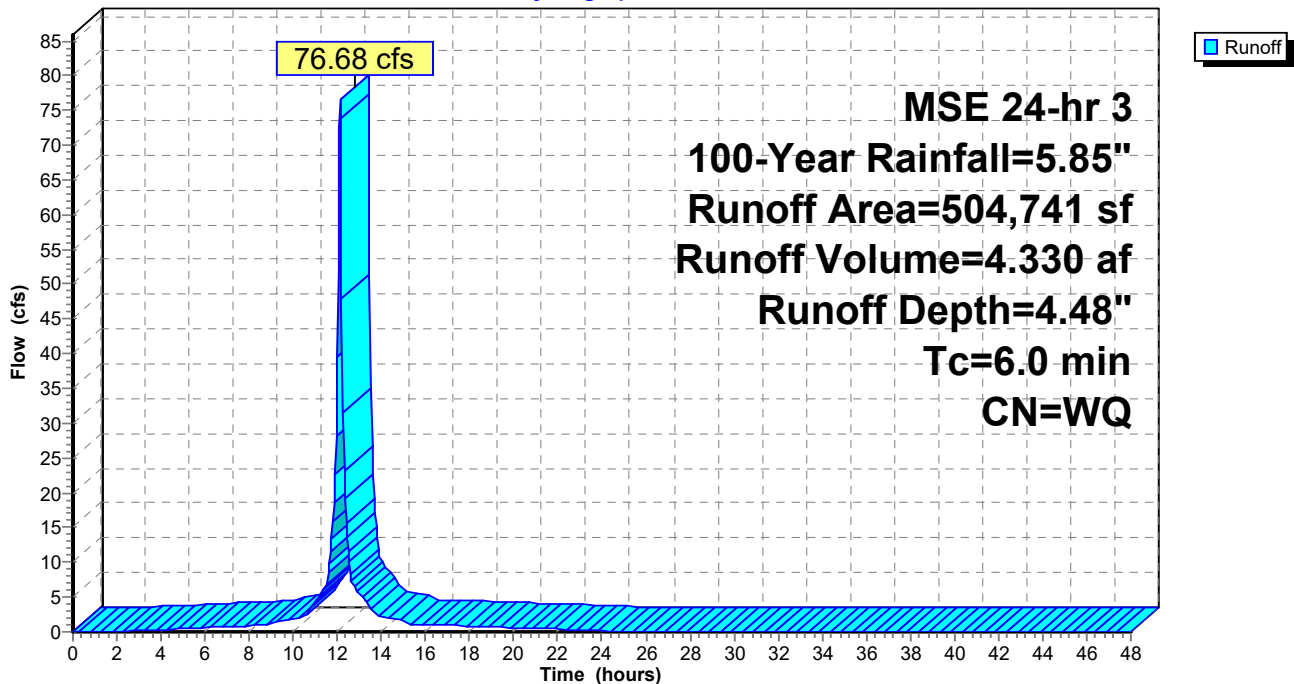
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 MSE 24-hr 3 100-Year Rainfall=5.85"

Area (sf)	CN	Description
115,376	98	Roofs, HSG A
257,059	98	Paved parking, HSG A
109,277	39	>75% Grass cover, Good, HSG A
23,029	98	Water Surface, 0% imp, HSG A
504,741		Weighted Average
132,306		26.21% Pervious Area
372,435		73.79% Impervious Area

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

Subcatchment 7S: Sub-Area 4

Hydrograph



Summary for Pond 2P: Infiltration Pond 1

Inflow Area = 5.133 ac, 65.08% Impervious, Inflow Depth = 4.51" for 100-Year event
 Inflow = 34.16 cfs @ 12.13 hrs, Volume= 1.928 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to nonexistent node 5L

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,176.31' @ 24.40 hrs Surf.Area= 42,195 sf Storage= 83,988 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

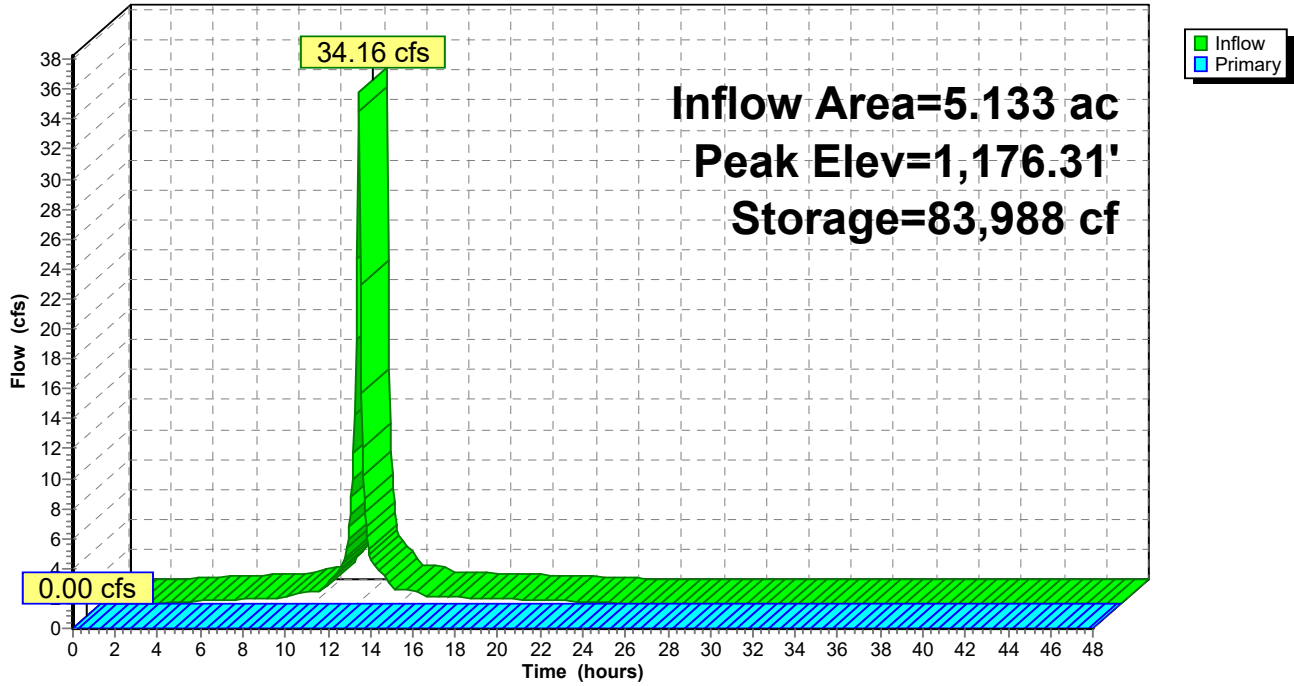
Volume	Invert	Avail.Storage	Storage Description			
#1	1,174.00'	114,350 cf	Custom Stage Data (Irregular) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,174.00	30,654	1,036.0	0	0	30,654	
1,175.00	35,583	1,069.0	33,088	33,088	36,281	
1,176.00	40,639	1,101.0	38,083	71,171	41,913	
1,177.00	45,771	1,127.0	43,180	114,350	46,655	

Device	Routing	Invert	Outlet Devices												
#1	Primary	1,176.50'	10.0' long + 3.0 ' SideZ 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 @ 0.00 hrs HW=1,174.00' (Free Discharge)
 ↑1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 2P: Infiltration Pond 1

Hydrograph



Summary for Pond 6P: Infiltration Pond 2

Inflow Area = 7.704 ac, 81.99% Impervious, Inflow Depth = 4.93" for 100-Year event
 Inflow = 56.41 cfs @ 12.13 hrs, Volume= 3.164 af
 Outflow = 39.95 cfs @ 12.20 hrs, Volume= 2.234 af, Atten= 29%, Lag= 4.1 min
 Primary = 39.95 cfs @ 12.20 hrs, Volume= 2.234 af
 Routed to nonexistent node 5L

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,174.82' @ 12.20 hrs Surf.Area= 27,419 sf Storage= 61,729 cf

Plug-Flow detention time= 149.8 min calculated for 2.232 af (71% of inflow)
 Center-of-Mass det. time= 80.1 min (825.0 - 744.9)

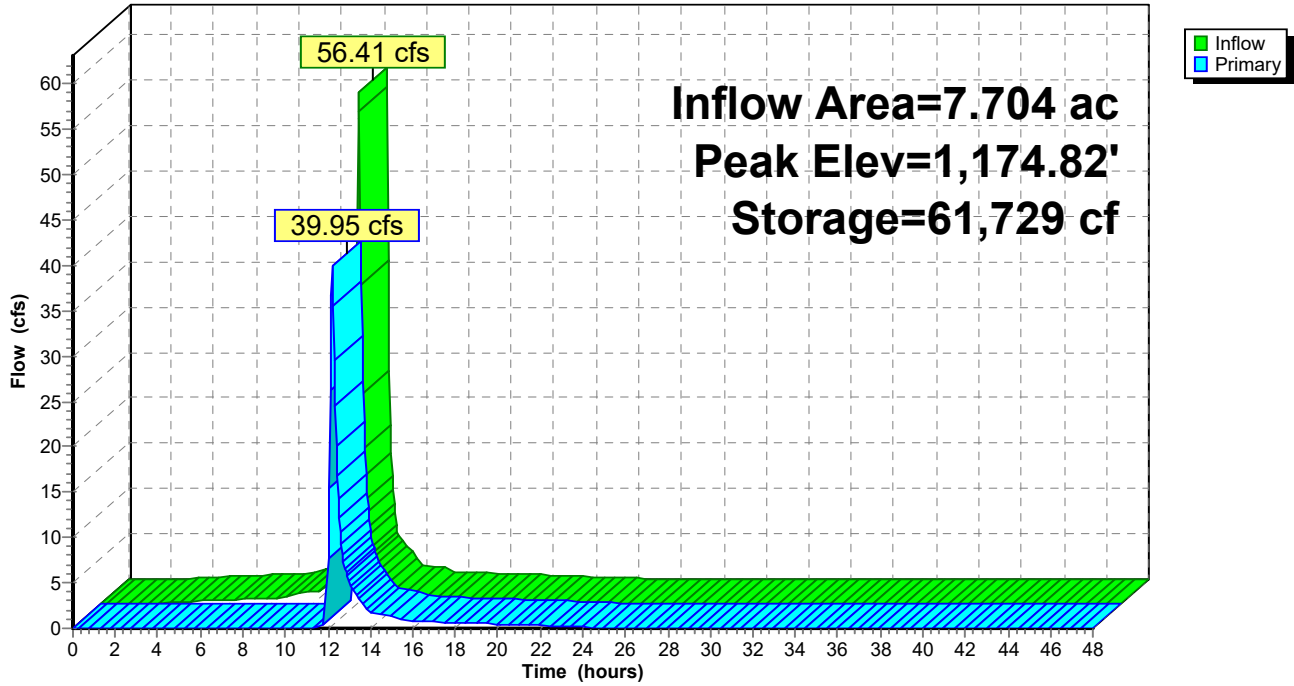
Volume	Invert	Avail.Storage	Storage Description			
#1	1,172.00'	66,646 cf	Custom Stage Data (Irregular) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,172.00	16,419	1,275.0	0	0	16,419	
1,173.00	20,273	1,294.0	18,312	18,312	20,510	
1,174.00	24,180	1,313.0	22,198	40,510	24,662	
1,175.00	28,142	1,332.0	26,136	66,646	28,874	

Device	Routing	Invert	Outlet Devices												
#1	Primary	1,174.00'	18.0' long + 3.0 ' SideZ 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=39.68 cfs @ 12.20 hrs HW=1,174.82' (Free Discharge)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 39.68 cfs @ 2.37 fps)

Pond 6P: Infiltration Pond 2

Hydrograph



Summary for Pond 9P: Infiltration Pond 3

Inflow Area = 11.587 ac, 73.79% Impervious, Inflow Depth = 4.48" for 100-Year event
 Inflow = 76.68 cfs @ 12.13 hrs, Volume= 4.330 af
 Outflow = 34.05 cfs @ 12.25 hrs, Volume= 2.789 af, Atten= 56%, Lag= 7.4 min
 Primary = 34.05 cfs @ 12.25 hrs, Volume= 2.789 af
 Routed to nonexistent node 5L

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,174.86' @ 12.25 hrs Surf.Area= 42,663 sf Storage= 101,850 cf

Plug-Flow detention time= 183.4 min calculated for 2.789 af (64% of inflow)
 Center-of-Mass det. time= 105.2 min (851.6 - 746.4)

Volume	Invert	Avail.Storage	Storage Description			
#1	1,172.00'	108,043 cf	Custom Stage Data (Irregular) Listed below (Recalc) x 1.25			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,172.00	23,029	1,270.0	0	0	23,029	
1,173.00	26,867	1,289.0	24,923	24,923	27,104	
1,174.00	30,762	1,308.0	28,793	53,716	31,240	
1,175.00	34,714	1,327.0	32,718	86,434	35,436	

Device	Routing	Invert	Outlet Devices												
#1	Primary	1,174.00'	14.0' long + 3.0 ' SideZ 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=34.00 cfs @ 12.25 hrs HW=1,174.86' (Free Discharge)
 ↑1=**Broad-Crested Rectangular Weir**(Weir Controls 34.00 cfs @ 2.40 fps)

Pond 9P: Infiltration Pond 3

Hydrograph

