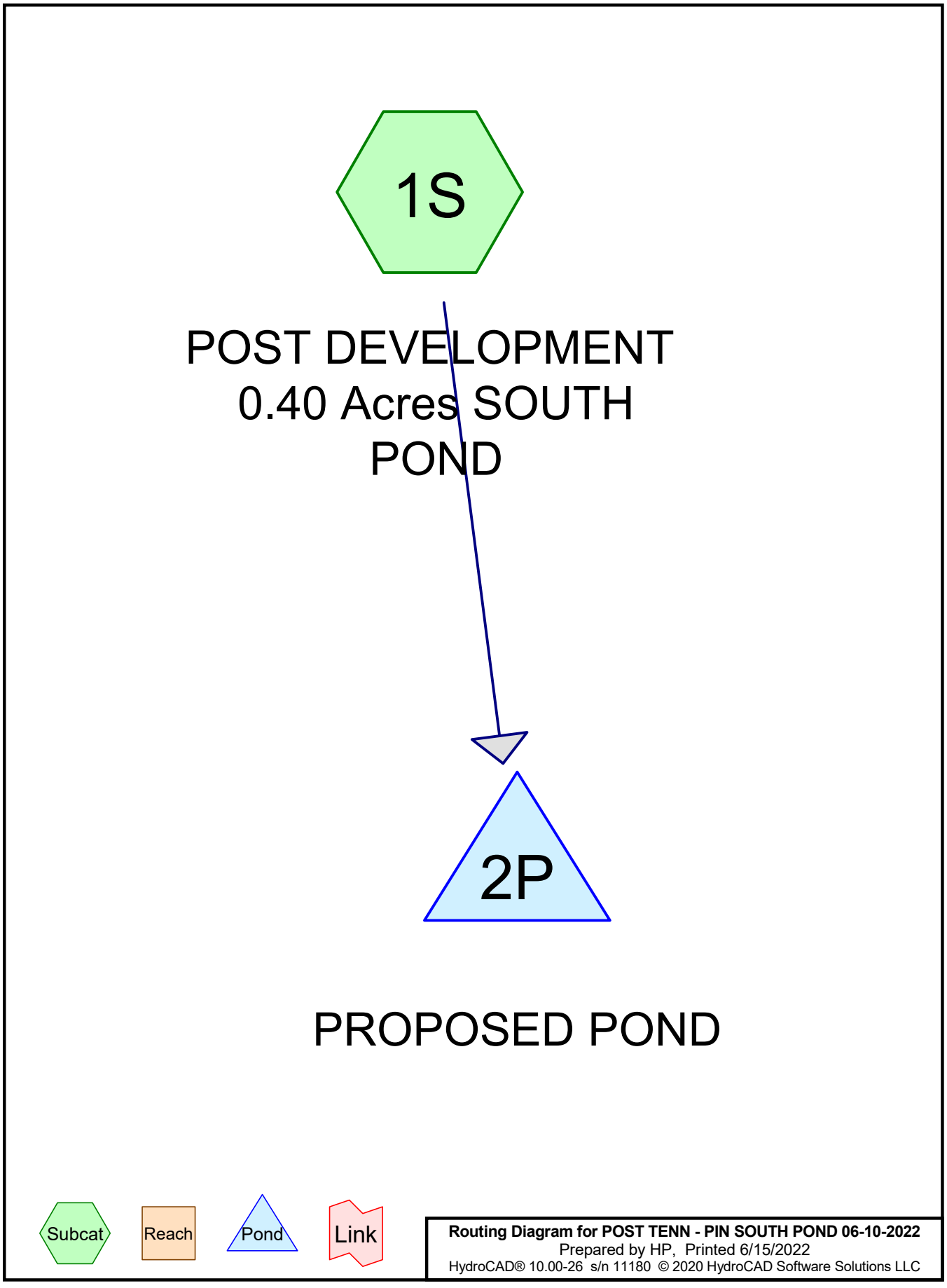


Routing Diagram for POST TENN - PIN SOUTH POND 06-10-2022
Prepared by HP, Printed 6/15/2022

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.400	98	Water Surface, HSG D (1S)
0.400	**98**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.400	HSG D	1S
0.000	Other	
0.400		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.400	0.000	0.400	Water Surface	1S
0.000	**0.000**	**0.000**	**0.400**	**0.000**	**0.400**	**TOTAL AREA**	

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	2P	710.00	709.20	100.0	0.0080	0.013	12.0	0.0	0.0

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>2.92"
Flow Length=600' Tc=2.7 min CN=98 Runoff=2.05 cfs 0.097 af

Pond 2P: PROPOSED POND Peak Elev=710.63' Storage=1,417 cf Inflow=2.05 cfs 0.097 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=1.06 cfs 0.093 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.097 af Average Runoff Depth = 2.92"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

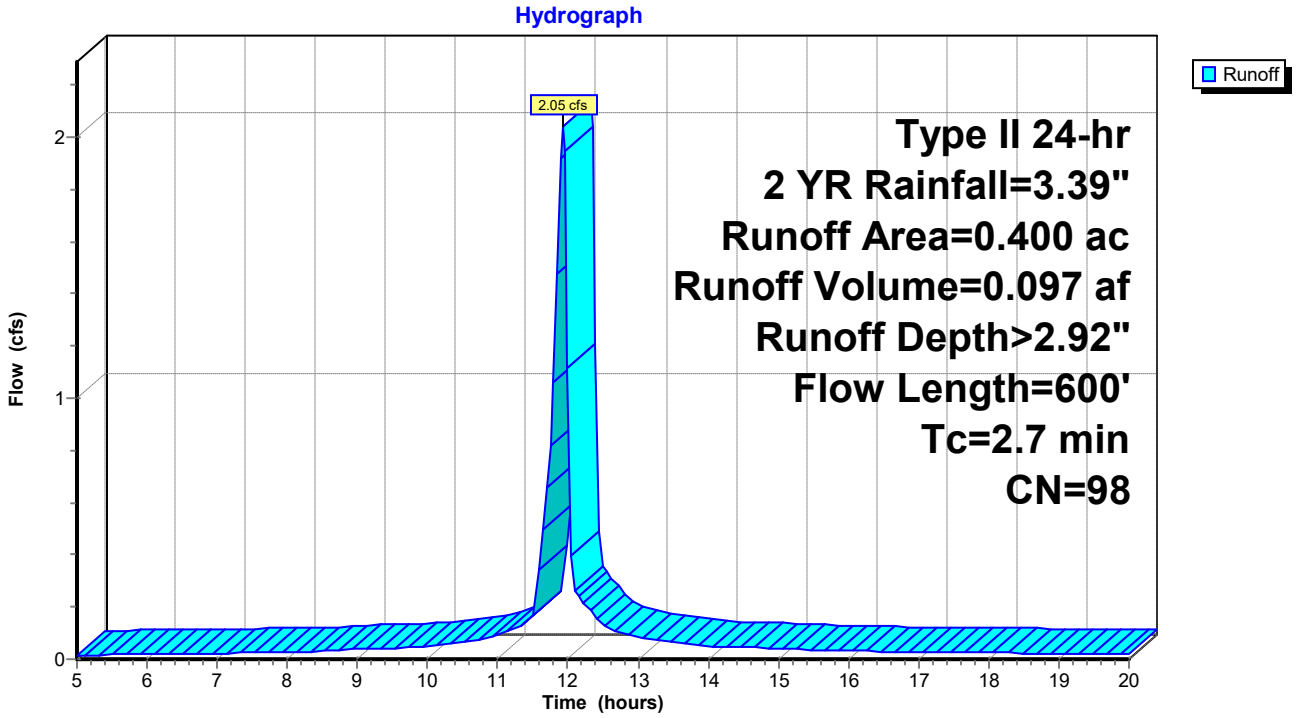
Runoff = 2.05 cfs @ 11.93 hrs, Volume= 0.097 af, Depth> 2.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2 YR Rainfall=3.39"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 2.92" for 2 YR event
Inflow = 2.05 cfs @ 11.93 hrs, Volume= 0.097 af
Outflow = 1.06 cfs @ 12.01 hrs, Volume= 0.093 af, Atten= 48%, Lag= 4.9 min
Primary = 1.06 cfs @ 12.01 hrs, Volume= 0.093 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 710.63' @ 12.01 hrs Surf.Area= 2,058 sf Storage= 1,417 cf

Plug-Flow detention time= 57.7 min calculated for 0.093 af (95% of inflow)
Center-of-Mass det. time= 40.1 min (770.4 - 730.3)

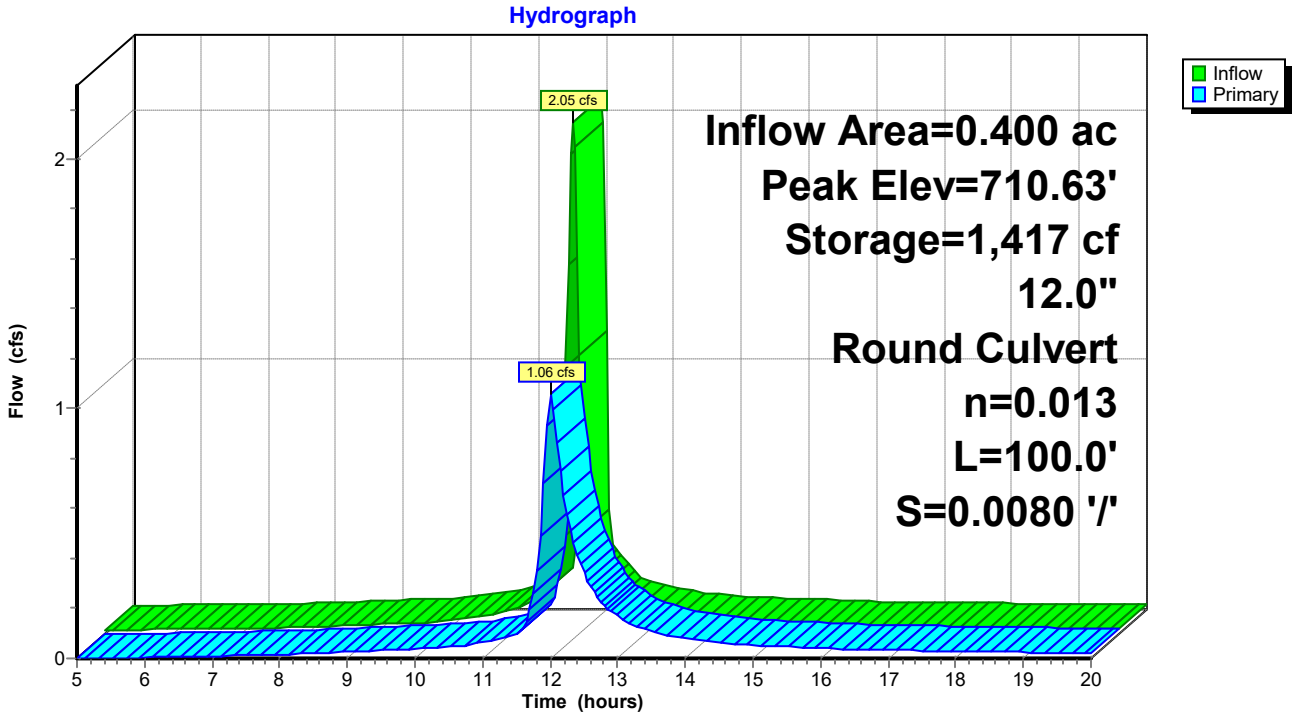
Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.04 cfs @ 12.01 hrs HW=710.63' (Free Discharge)
1=Culvert (Inlet Controls 1.04 cfs @ 2.02 fps)

Pond 2P: PROPOSED POND



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>3.92"
Flow Length=600' Tc=2.7 min CN=98 Runoff=2.73 cfs 0.131 af

Pond 2P: PROPOSED POND Peak Elev=710.78' Storage=1,759 cf Inflow=2.73 cfs 0.131 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=1.49 cfs 0.126 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.131 af Average Runoff Depth = 3.92"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

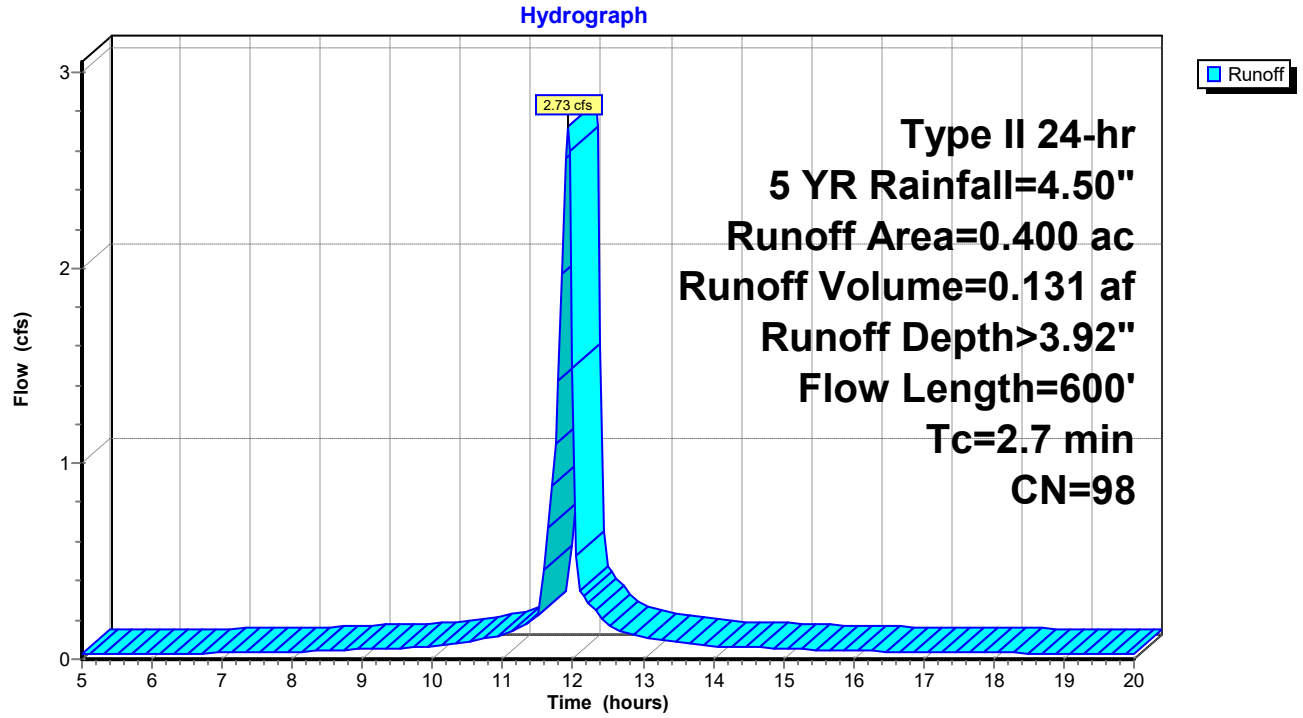
Runoff = 2.73 cfs @ 11.93 hrs, Volume= 0.131 af, Depth> 3.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 5 YR Rainfall=4.50"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 3.92" for 5 YR event
Inflow = 2.73 cfs @ 11.93 hrs, Volume= 0.131 af
Outflow = 1.49 cfs @ 12.00 hrs, Volume= 0.126 af, Atten= 46%, Lag= 4.7 min
Primary = 1.49 cfs @ 12.00 hrs, Volume= 0.126 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 710.78' @ 12.00 hrs Surf.Area= 2,137 sf Storage= 1,759 cf

Plug-Flow detention time= 50.9 min calculated for 0.126 af (96% of inflow)
Center-of-Mass det. time= 35.7 min (764.0 - 728.3)

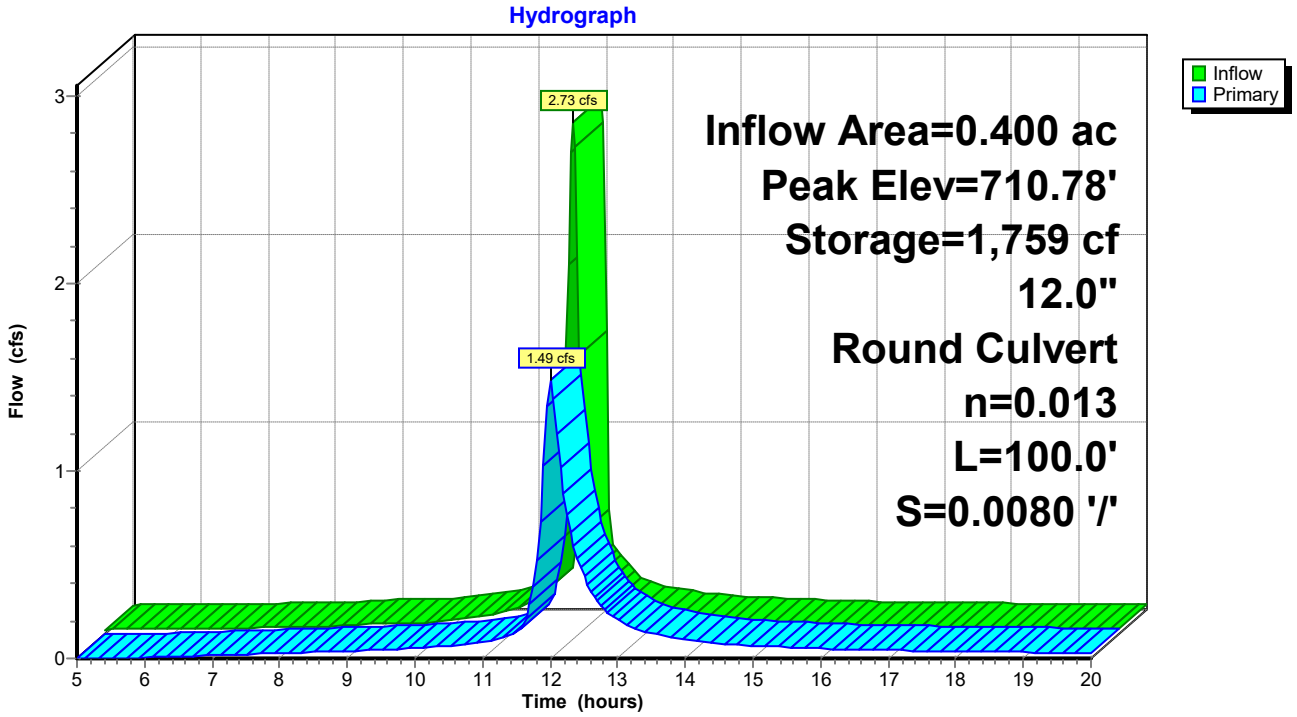
Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.48 cfs @ 12.00 hrs HW=710.78' (Free Discharge)
1=Culvert (Inlet Controls 1.48 cfs @ 2.25 fps)

Pond 2P: PROPOSED POND



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>4.58"
Flow Length=600' Tc=2.7 min CN=98 Runoff=3.17 cfs 0.153 af

Pond 2P: PROPOSED POND Peak Elev=710.88' Storage=1,977 cf Inflow=3.17 cfs 0.153 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=1.75 cfs 0.148 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.153 af Average Runoff Depth = 4.58"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

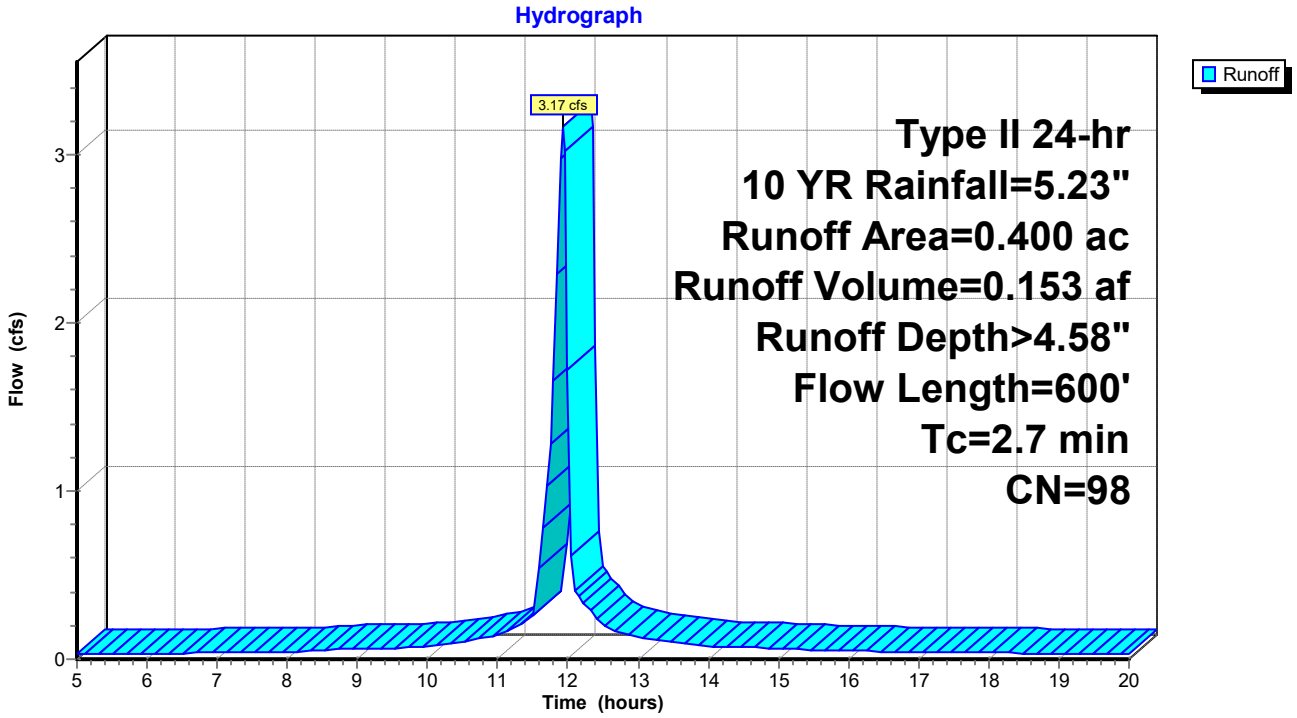
Runoff = 3.17 cfs @ 11.93 hrs, Volume= 0.153 af, Depth> 4.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10 YR Rainfall=5.23"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 4.58" for 10 YR event
Inflow = 3.17 cfs @ 11.93 hrs, Volume= 0.153 af
Outflow = 1.75 cfs @ 12.00 hrs, Volume= 0.148 af, Atten= 45%, Lag= 4.6 min
Primary = 1.75 cfs @ 12.00 hrs, Volume= 0.148 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 710.88' @ 12.00 hrs Surf.Area= 2,188 sf Storage= 1,977 cf

Plug-Flow detention time= 47.7 min calculated for 0.147 af (96% of inflow)
Center-of-Mass det. time= 33.5 min (760.9 - 727.5)

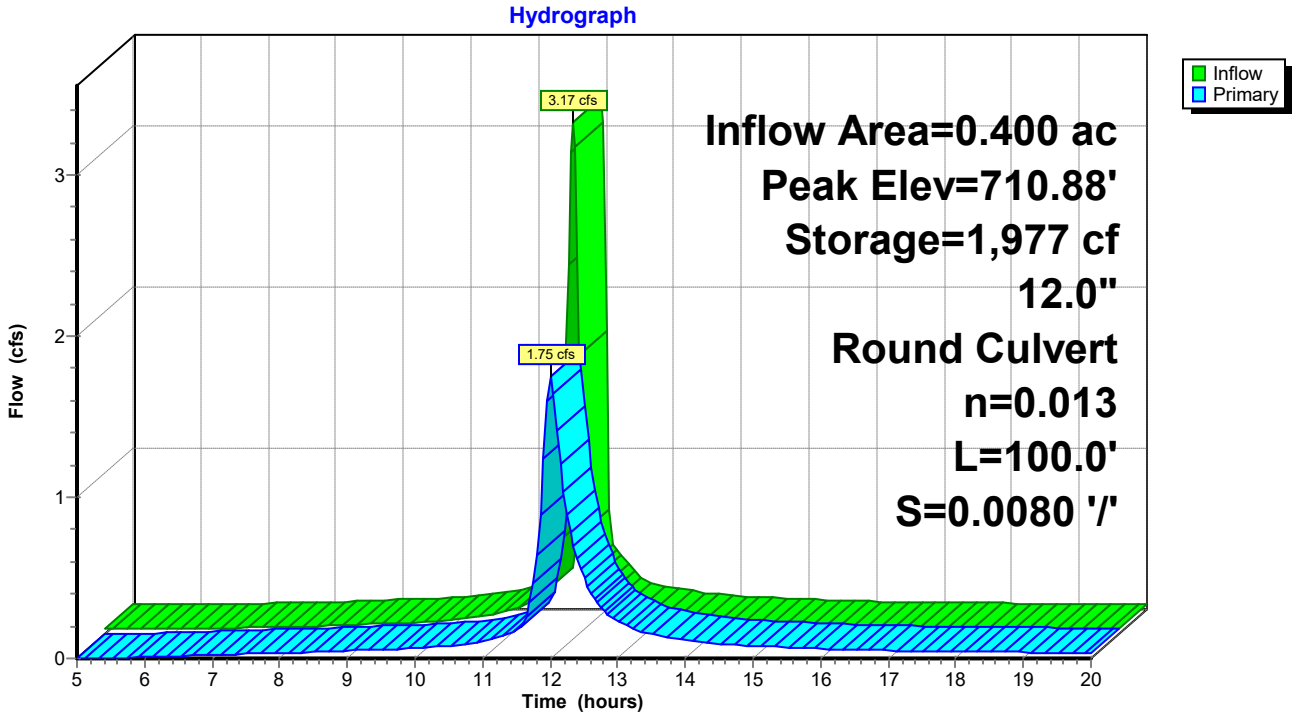
Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.74 cfs @ 12.00 hrs HW=710.87' (Free Discharge)
1=Culvert (Inlet Controls 1.74 cfs @ 2.39 fps)

Pond 2P: PROPOSED POND



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>5.41"
Flow Length=600' Tc=2.7 min CN=98 Runoff=3.74 cfs 0.180 af

Pond 2P: PROPOSED POND Peak Elev=711.00' Storage=2,263 cf Inflow=3.74 cfs 0.180 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=2.02 cfs 0.175 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.180 af Average Runoff Depth = 5.41"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

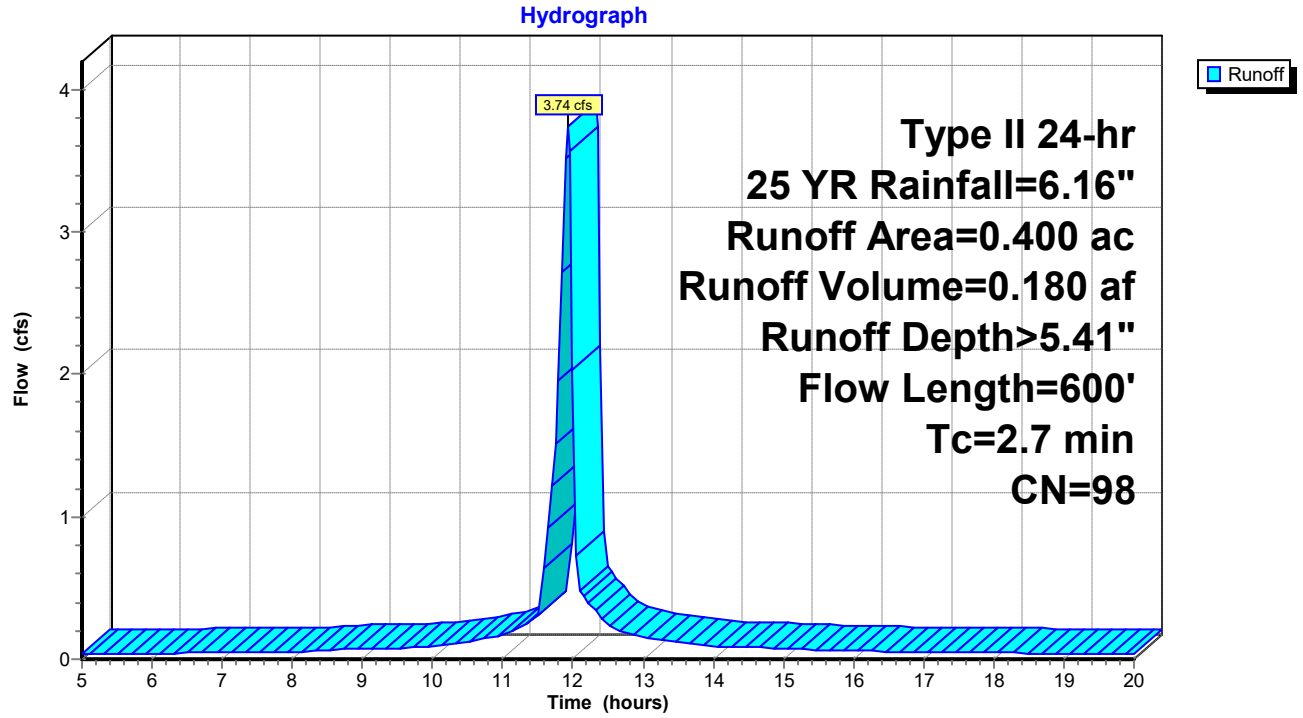
Runoff = 3.74 cfs @ 11.93 hrs, Volume= 0.180 af, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 YR Rainfall=6.16"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 5.41" for 25 YR event
Inflow = 3.74 cfs @ 11.93 hrs, Volume= 0.180 af
Outflow = 2.02 cfs @ 12.01 hrs, Volume= 0.175 af, Atten= 46%, Lag= 4.7 min
Primary = 2.02 cfs @ 12.01 hrs, Volume= 0.175 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 711.00' @ 12.00 hrs Surf.Area= 2,254 sf Storage= 2,263 cf

Plug-Flow detention time= 44.7 min calculated for 0.175 af (97% of inflow)
Center-of-Mass det. time= 31.3 min (758.0 - 726.7)

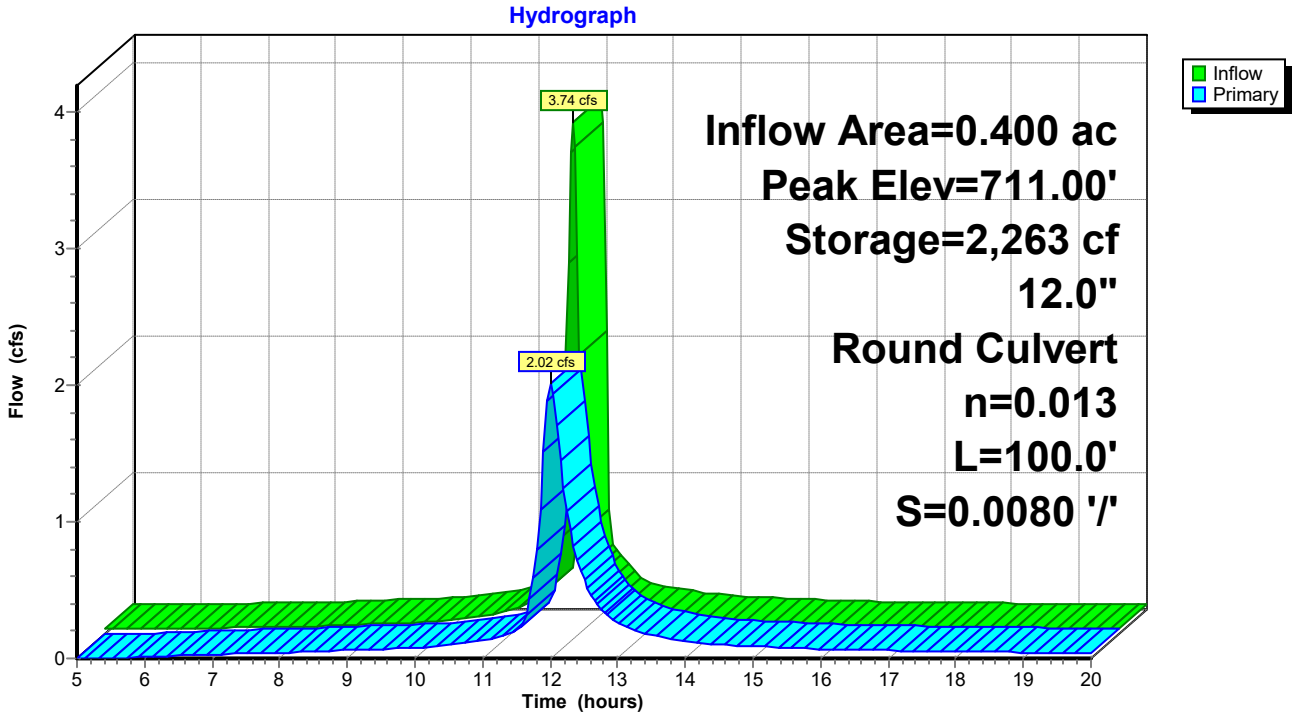
Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.00 cfs @ 12.01 hrs HW=711.00' (Free Discharge)
1=Culvert (Inlet Controls 2.00 cfs @ 2.55 fps)

Pond 2P: PROPOSED POND



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>6.03"
Flow Length=600' Tc=2.7 min CN=98 Runoff=4.17 cfs 0.201 af

Pond 2P: PROPOSED POND Peak Elev=711.10' Storage=2,483 cf Inflow=4.17 cfs 0.201 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=2.20 cfs 0.195 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.201 af Average Runoff Depth = 6.03"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

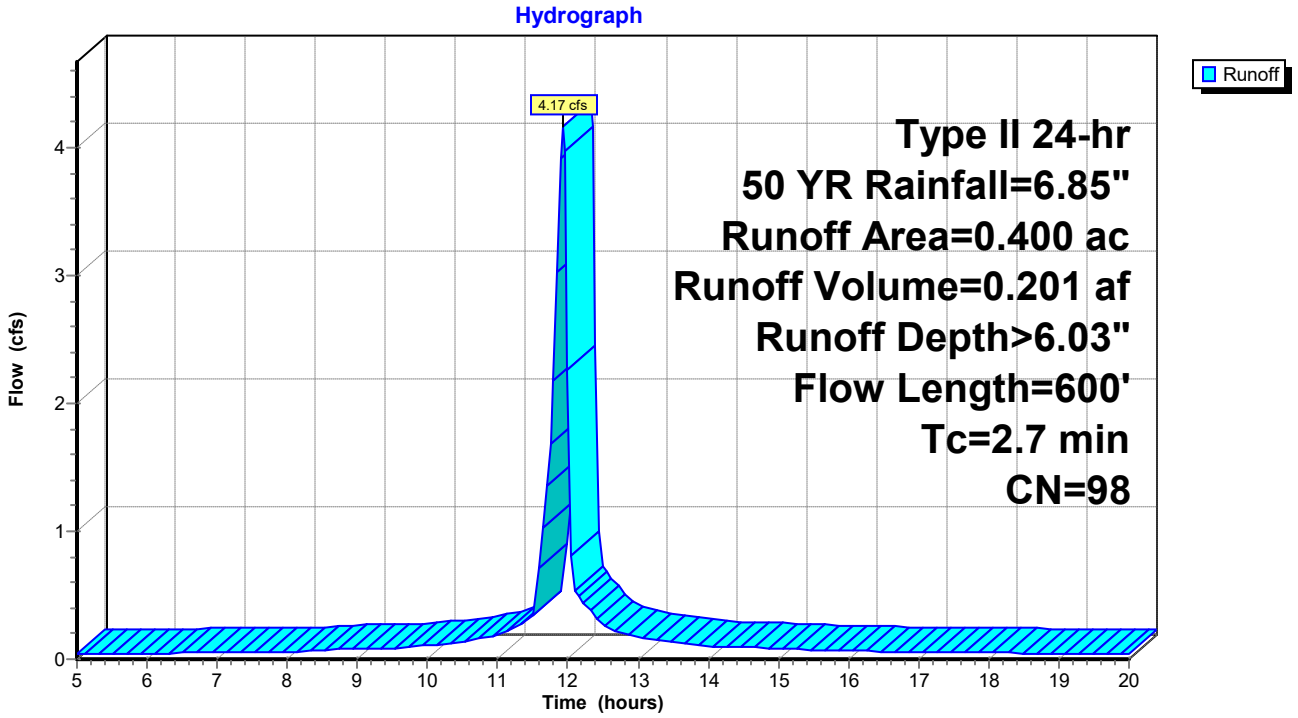
Runoff = 4.17 cfs @ 11.93 hrs, Volume= 0.201 af, Depth> 6.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 50 YR Rainfall=6.85"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 6.03" for 50 YR event
Inflow = 4.17 cfs @ 11.93 hrs, Volume= 0.201 af
Outflow = 2.20 cfs @ 12.01 hrs, Volume= 0.195 af, Atten= 47%, Lag= 4.8 min
Primary = 2.20 cfs @ 12.01 hrs, Volume= 0.195 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 711.10' @ 12.01 hrs Surf.Area= 2,305 sf Storage= 2,483 cf

Plug-Flow detention time= 42.8 min calculated for 0.195 af (97% of inflow)
Center-of-Mass det. time= 30.0 min (756.3 - 726.3)

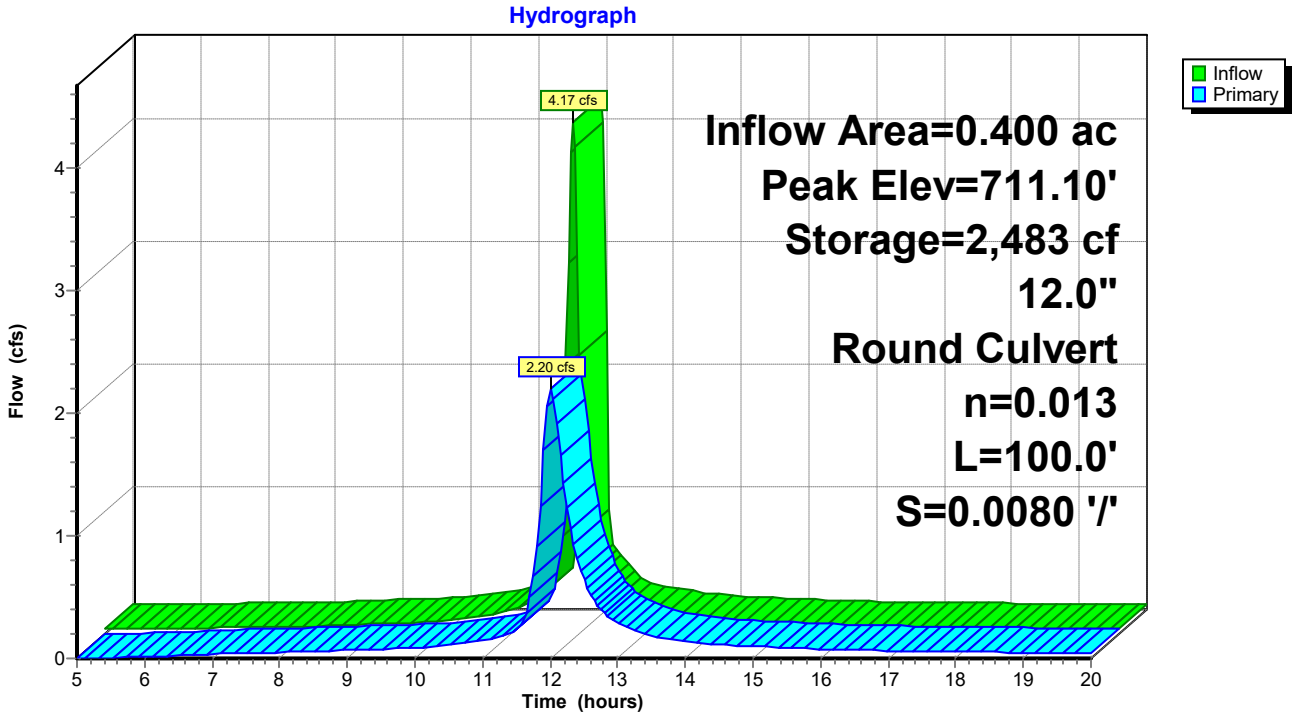
Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.19 cfs @ 12.01 hrs HW=711.10' (Free Discharge)
1=Culvert (Inlet Controls 2.19 cfs @ 2.79 fps)

Pond 2P: PROPOSED POND



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: POST DEVELOPMENT Runoff Area=0.400 ac 100.00% Impervious Runoff Depth>6.64"
Flow Length=600' Tc=2.7 min CN=98 Runoff=4.58 cfs 0.221 af

Pond 2P: PROPOSED POND Peak Elev=711.20' Storage=2,703 cf Inflow=4.58 cfs 0.221 af
12.0" Round Culvert n=0.013 L=100.0' S=0.0080 '/' Outflow=2.37 cfs 0.215 af

Total Runoff Area = 0.400 ac Runoff Volume = 0.221 af Average Runoff Depth = 6.64"
0.00% Pervious = 0.000 ac 100.00% Impervious = 0.400 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

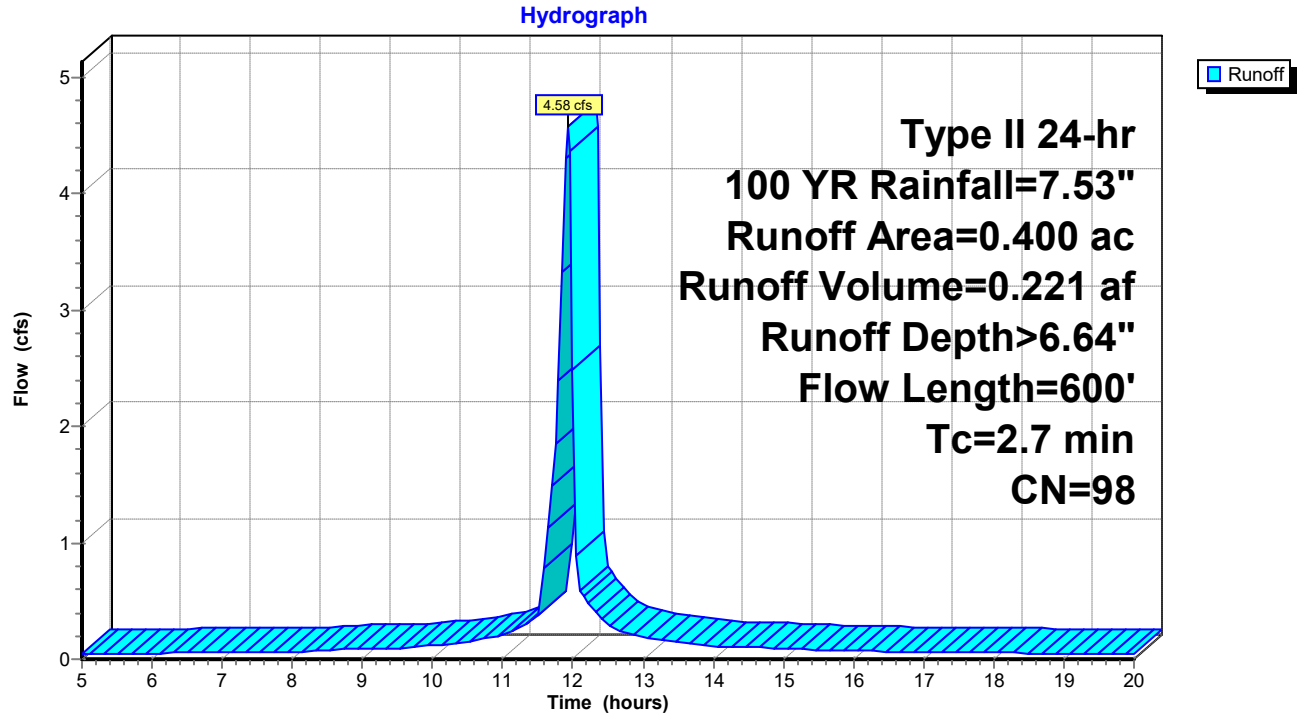
Runoff = 4.58 cfs @ 11.93 hrs, Volume= 0.221 af, Depth> 6.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100 YR Rainfall=7.53"

Area (ac)	CN	Description
0.400	98	Water Surface, HSG D
0.400		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	300	0.3000	5.21		**Sheet Flow, SHEET FLOW** Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		**Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW** Grassed Waterway Kv= 15.0 fps
2.7	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.40 Acres SOUTH POND



Summary for Pond 2P: PROPOSED POND

18" RCP OUTLET

[82] Warning: Early inflow requires earlier time span

Inflow Area = 0.400 ac,100.00% Impervious, Inflow Depth > 6.64" for 100 YR event
Inflow = 4.58 cfs @ 11.93 hrs, Volume= 0.221 af
Outflow = 2.37 cfs @ 12.01 hrs, Volume= 0.215 af, Atten= 48%, Lag= 4.8 min
Primary = 2.37 cfs @ 12.01 hrs, Volume= 0.215 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 711.20' @ 12.01 hrs Surf.Area= 2,356 sf Storage= 2,703 cf

Plug-Flow detention time= 41.1 min calculated for 0.214 af (97% of inflow)
Center-of-Mass det. time= 29.0 min (755.0 - 726.0)

Volume	Invert	Avail.Storage	Storage Description
#1	710.00'	11,243 cf	**Custom Stage Data (Prismatic)** Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
710.00	1,729	0	0
712.00	2,774	4,503	4,503
714.00	3,966	6,740	11,243

Device	Routing	Invert	Outlet Devices
#1	Primary	710.00'	**12.0" Round Culvert** L= 100.0' Ke= 1.000 Inlet / Outlet Invert= 710.00' / 709.20' S= 0.0080 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.36 cfs @ 12.01 hrs HW=711.19' (Free Discharge)
1=Culvert (Inlet Controls 2.36 cfs @ 3.00 fps)

Pond 2P: PROPOSED POND