

Post Driveway Ext

Prepared by Bergmann

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Type II 24-hr 1 YR Rainfall=2.00"

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Page 2

Summary for Subcatchment DA-1: DA-1

Runoff = 9.22 cfs @ 12.16 hrs, Volume= 0.786 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.00"

Area (ac)	CN	Description
2.626	77	Woods, Good, HSG D
14.552	78	Meadow, non-grazed, HSG D
0.218	98	Roofs, HSG D
0.144	93	Paved roads w/open ditches, 50% imp, HSG D
0.396	98	Water Surface, HSG D
0.043	96	Gravel surface, HSG D
* 0.067	77	Palustrine Forest Wetland
18.046	79	Weighted Average
17.360		96.20% Pervious Area
0.686		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0990	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
2.8	369	0.0972	2.18		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	445	0.0704	3.98		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
1.9	208	0.0656	1.79		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	506	0.0452	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	1,628	Total			

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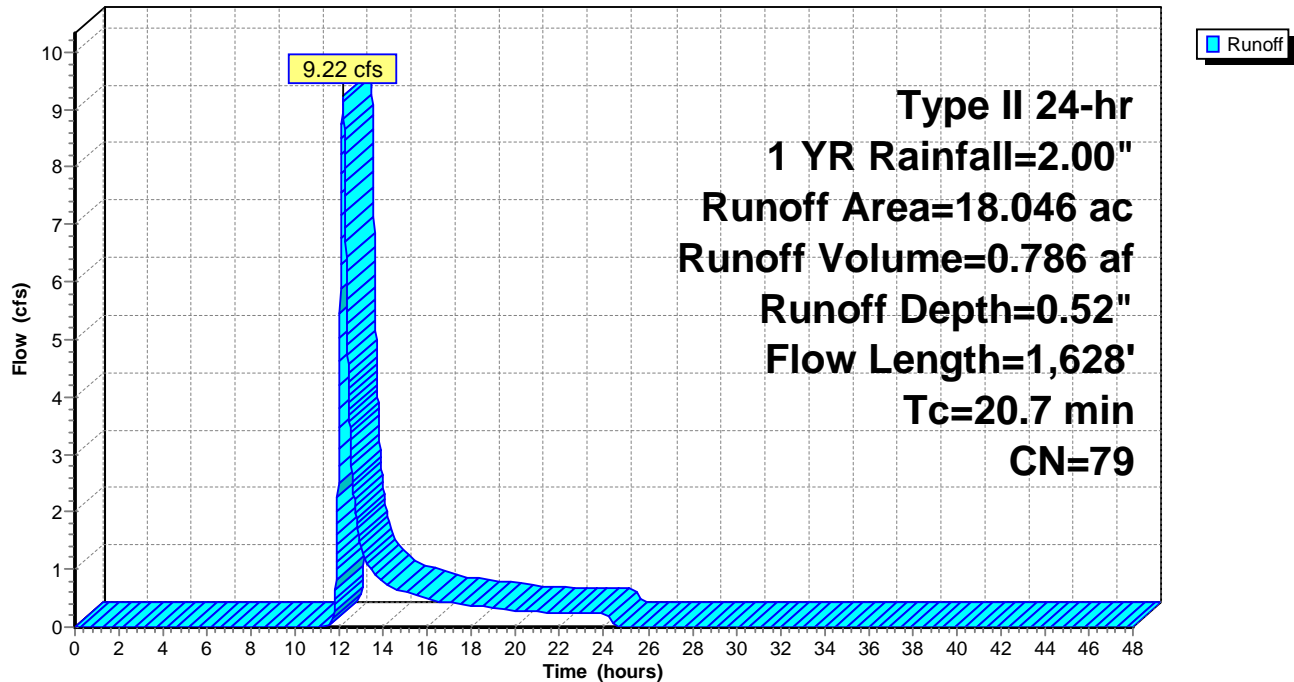
Type II 24-hr 1 YR Rainfall=2.00"

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Subcatchment DA-1: DA-1

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Type II 24-hr 1 YR Rainfall=2.00"

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Summary for Subcatchment DA-2: DA-2

Runoff = 12.83 cfs @ 12.47 hrs, Volume= 1.929 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.00"

Area (ac)	CN	Description
9.353	77	Woods, Good, HSG D
36.598	78	Meadow, non-grazed, HSG D
0.099	98	Roofs, HSG D
0.268	93	Paved roads w/open ditches, 50% imp, HSG D
0.015	96	Gravel surface, HSG D
* 0.131	77	Palustrine Forest Wetland
* 0.018	98	Concrete Equipment Pad
* 1.306	75	Limited Use Pervious Gravel Driveway
47.788	78	Weighted Average
47.537		99.47% Pervious Area
0.251		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	100	0.0035	0.07		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
5.2	562	0.0664	1.80		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.1	32	0.0010	0.47		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
8.8	1,024	0.0763	1.93		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.1	565	0.0955	1.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.7	2,283	Total			

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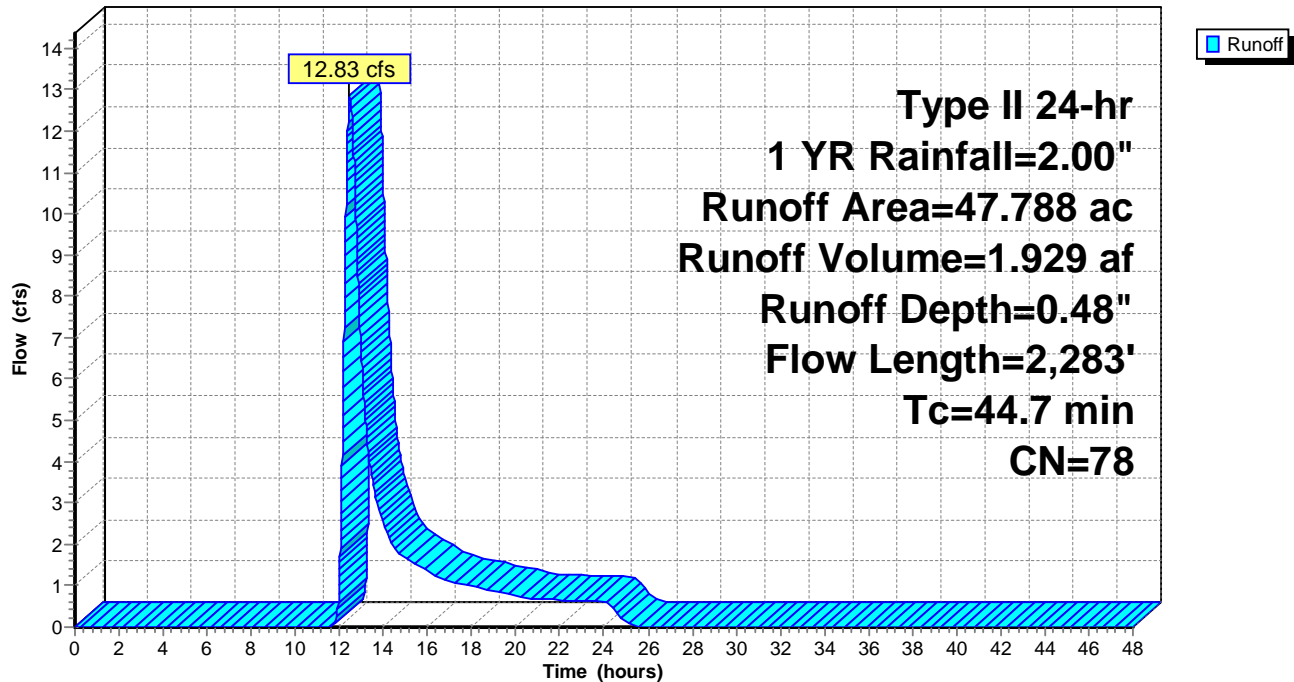
Type II 24-hr 1 YR Rainfall=2.00"

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Subcatchment DA-2: DA-2

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Type II 24-hr 1 YR Rainfall=2.00"

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Summary for Subcatchment DA-3: DA-3

Runoff = 9.91 cfs @ 12.27 hrs, Volume= 1.114 af, Depth= 0.45"

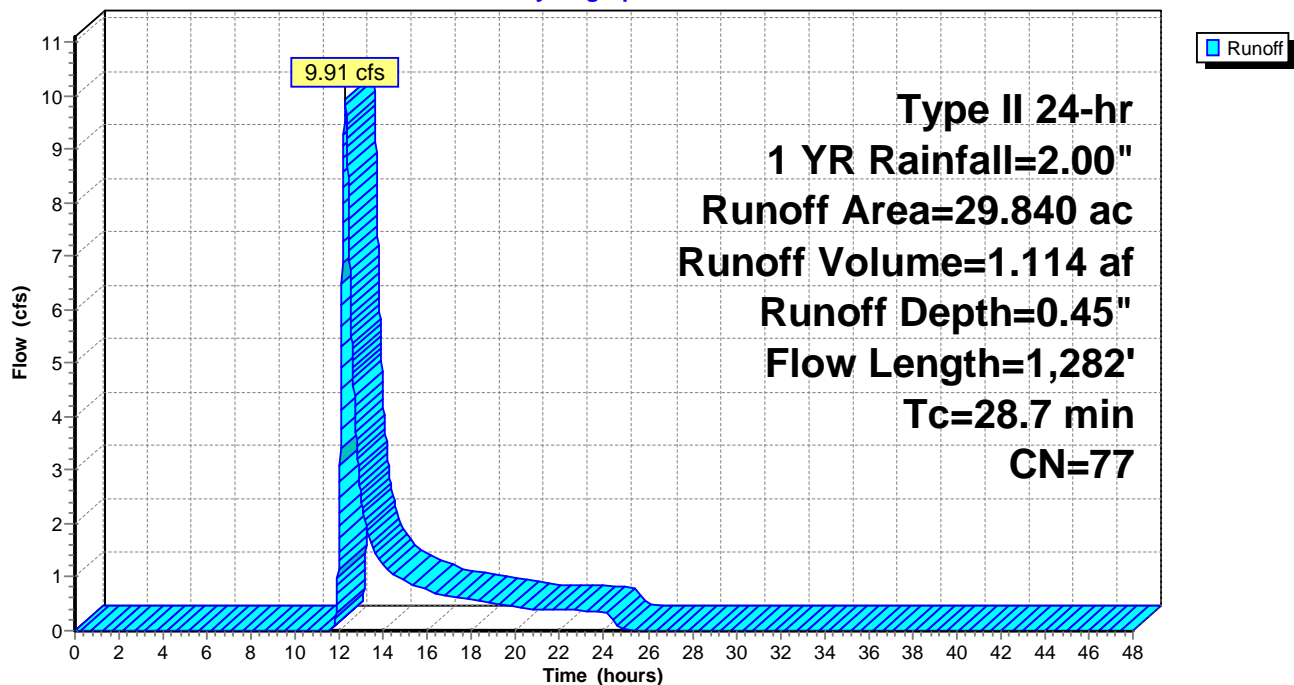
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 1 YR Rainfall=2.00"

Area (ac)	CN	Description
22.271	77	Woods, Good, HSG D
7.569	78	Meadow, non-grazed, HSG D
29.840	77	Weighted Average
29.840		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	63	0.0605	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
11.3	37	0.0210	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.25"
1.6	94	0.0382	0.98		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	246	0.0411	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	842	0.1342	1.83		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.7	1,282	Total			

Subcatchment DA-3: DA-3

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Type II 24-hr 1 YR Rainfall=2.00"

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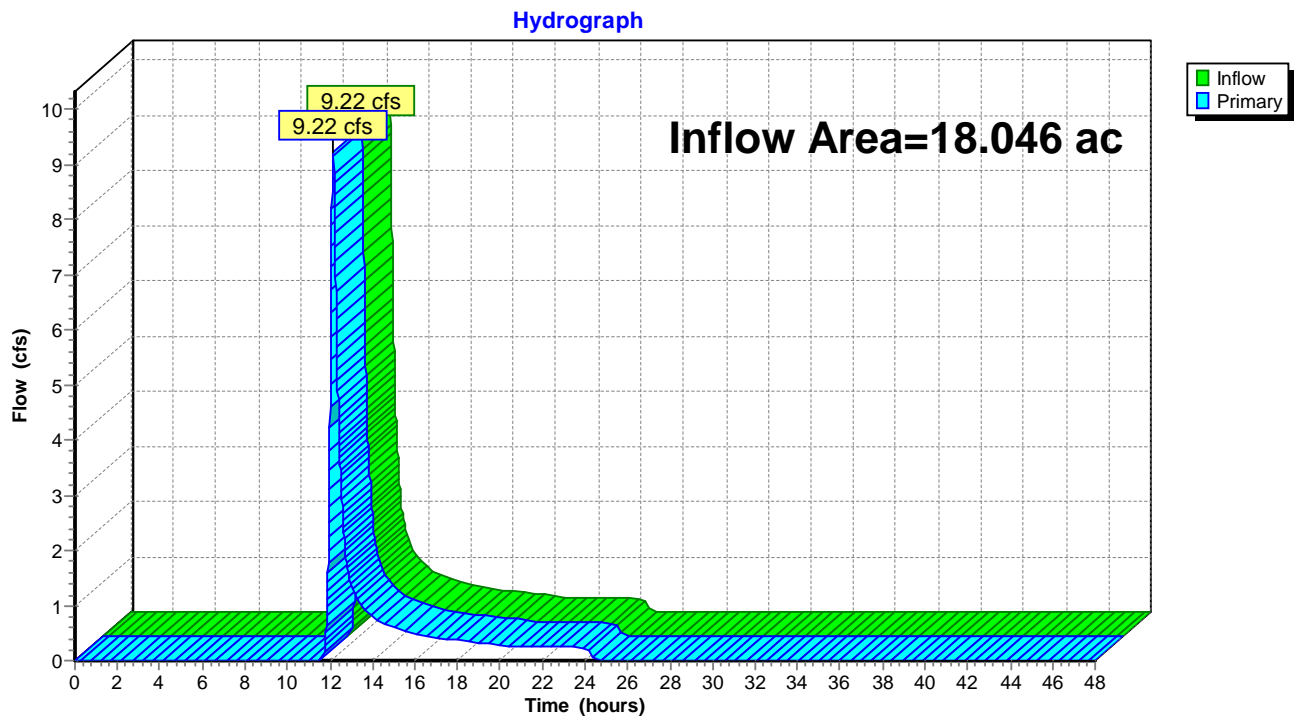
Page 7

Summary for Link DP-1: Design Point #1

Inflow Area = 18.046 ac, 3.80% Impervious, Inflow Depth = 0.52" for 1 YR event
Inflow = 9.22 cfs @ 12.16 hrs, Volume= 0.786 af
Primary = 9.22 cfs @ 12.16 hrs, Volume= 0.786 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-1: Design Point #1



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Type II 24-hr 1 YR Rainfall=2.00"

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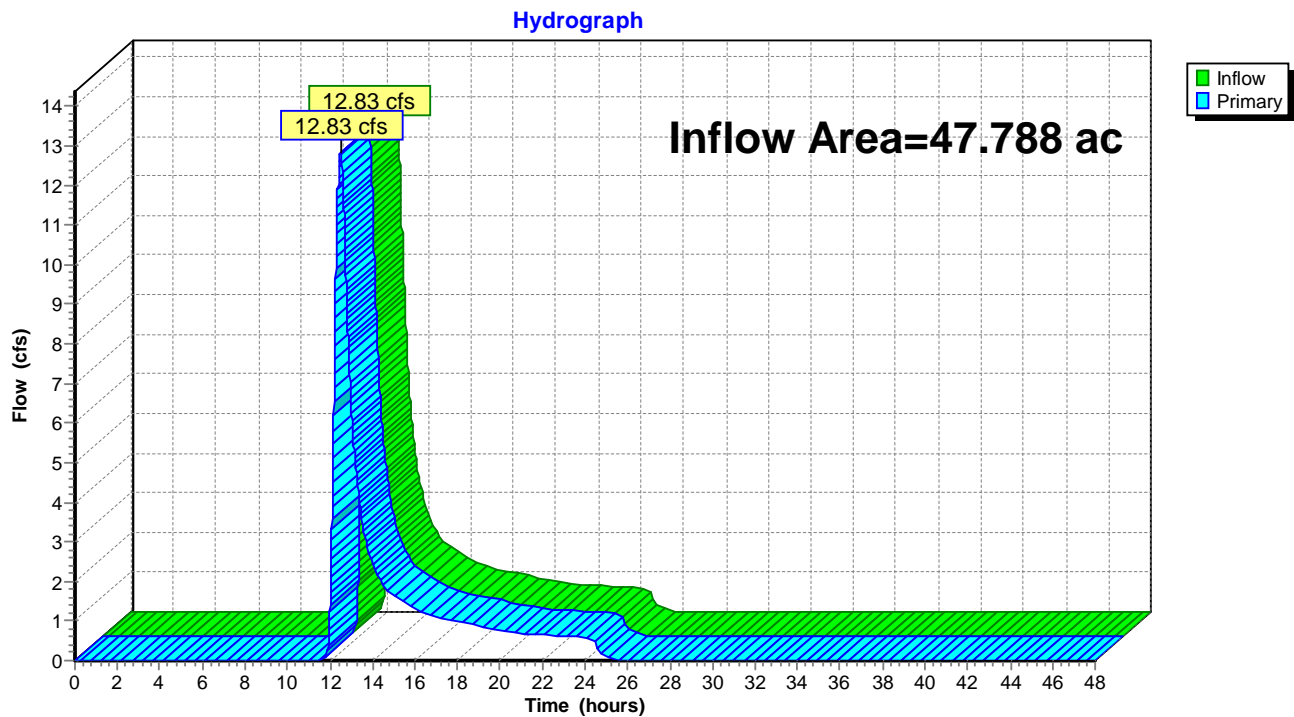
Page 8

Summary for Link DP-2: Design Point #2

Inflow Area = 47.788 ac, 0.53% Impervious, Inflow Depth = 0.48" for 1 YR event
Inflow = 12.83 cfs @ 12.47 hrs, Volume= 1.929 af
Primary = 12.83 cfs @ 12.47 hrs, Volume= 1.929 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-2: Design Point #2



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Type II 24-hr 1 YR Rainfall=2.00"

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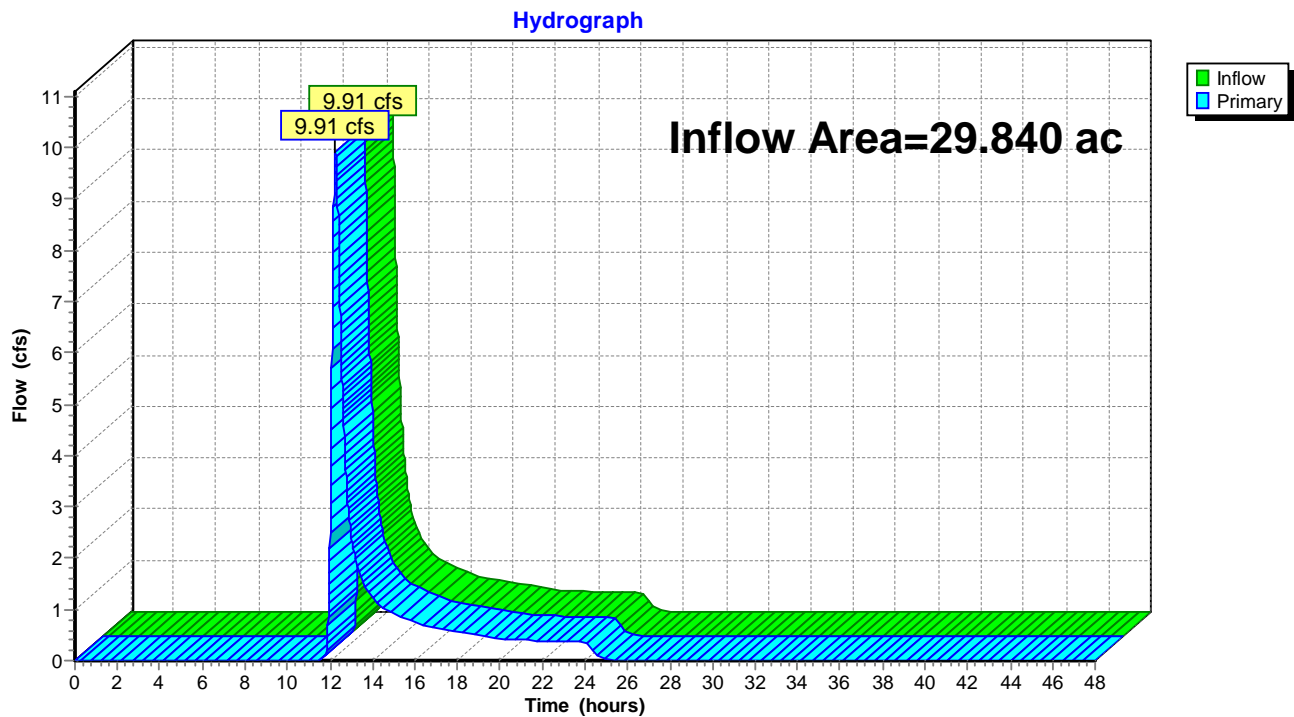
Page 9

Summary for Link DP-3: Design Point #3

Inflow Area = 29.840 ac, 0.00% Impervious, Inflow Depth = 0.45" for 1 YR event
Inflow = 9.91 cfs @ 12.27 hrs, Volume= 1.114 af
Primary = 9.91 cfs @ 12.27 hrs, Volume= 1.114 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-3: Design Point #3



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Type II 24-hr 10 YR Rainfall=3.50"

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Summary for Subcatchment DA-1: DA-1

Runoff = 30.51 cfs @ 12.14 hrs, Volume= 2.355 af, Depth= 1.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.50"

Area (ac)	CN	Description
2.626	77	Woods, Good, HSG D
14.552	78	Meadow, non-grazed, HSG D
0.218	98	Roofs, HSG D
0.144	93	Paved roads w/open ditches, 50% imp, HSG D
0.396	98	Water Surface, HSG D
0.043	96	Gravel surface, HSG D
* 0.067	77	Palustrine Forest Wetland
18.046	79	Weighted Average
17.360		96.20% Pervious Area
0.686		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0990	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
2.8	369	0.0972	2.18		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	445	0.0704	3.98		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
1.9	208	0.0656	1.79		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	506	0.0452	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	1,628	Total			

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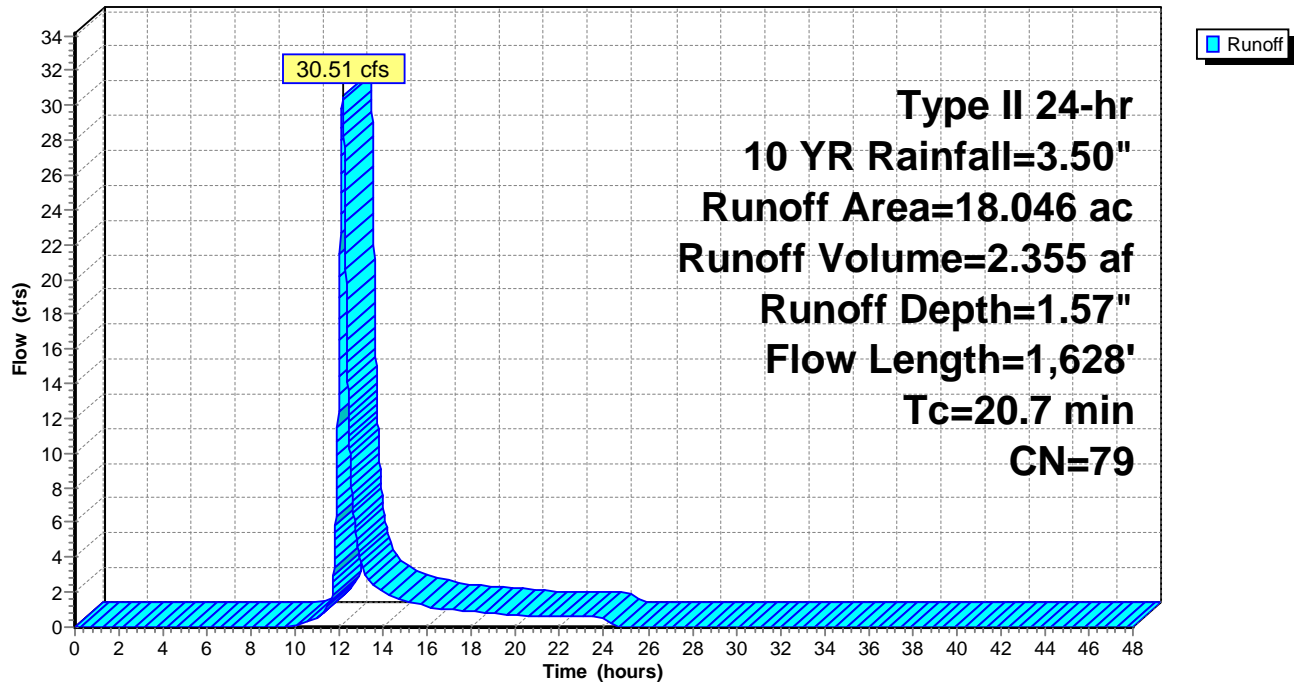
Type II 24-hr 10 YR Rainfall=3.50"

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Subcatchment DA-1: DA-1

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Type II 24-hr 10 YR Rainfall=3.50"

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Summary for Subcatchment DA-2: DA-2

Runoff = 45.96 cfs @ 12.46 hrs, Volume= 5.963 af, Depth= 1.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.50"

Area (ac)	CN	Description
9.353	77	Woods, Good, HSG D
36.598	78	Meadow, non-grazed, HSG D
0.099	98	Roofs, HSG D
0.268	93	Paved roads w/open ditches, 50% imp, HSG D
0.015	96	Gravel surface, HSG D
* 0.131	77	Palustrine Forest Wetland
* 0.018	98	Concrete Equipment Pad
* 1.306	75	Limited Use Pervious Gravel Driveway
47.788	78	Weighted Average
47.537		99.47% Pervious Area
0.251		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	100	0.0035	0.07		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
5.2	562	0.0664	1.80		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.1	32	0.0010	0.47		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
8.8	1,024	0.0763	1.93		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.1	565	0.0955	1.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.7	2,283	Total			

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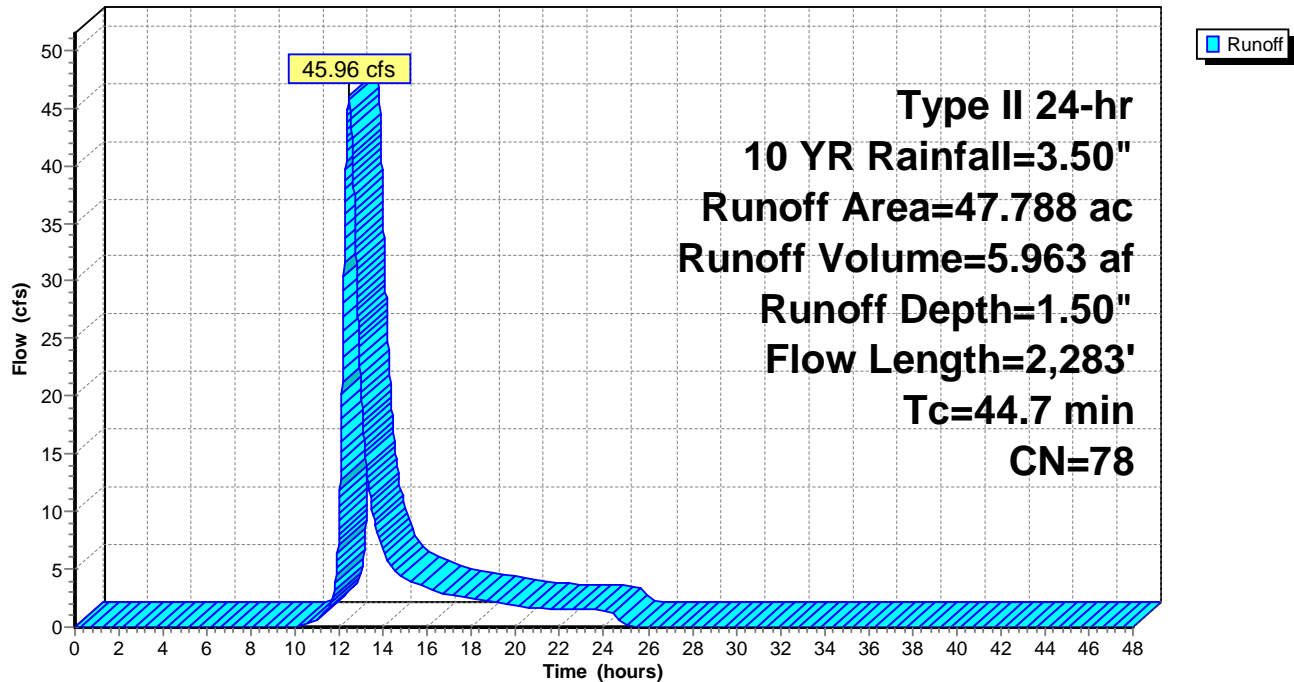
Type II 24-hr 10 YR Rainfall=3.50"

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Subcatchment DA-2: DA-2

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Type II 24-hr 10 YR Rainfall=3.50"

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Summary for Subcatchment DA-3: DA-3

Runoff = 37.09 cfs @ 12.24 hrs, Volume= 3.557 af, Depth= 1.43"

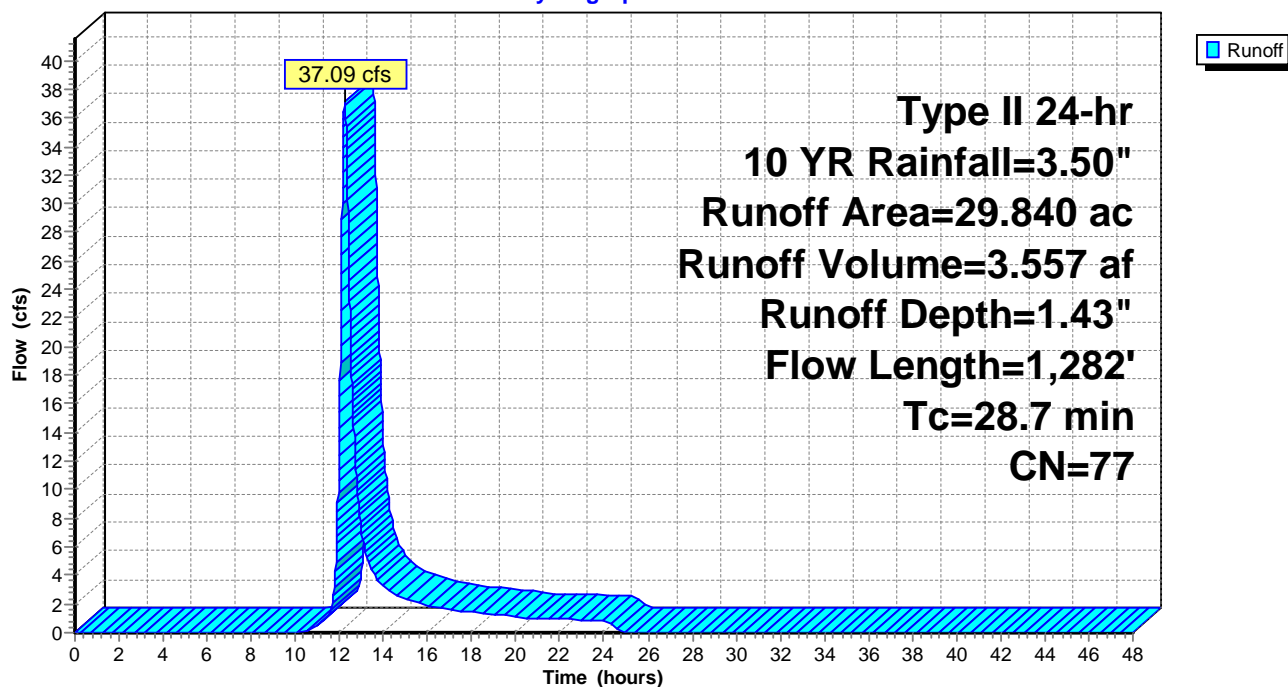
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 10 YR Rainfall=3.50"

Area (ac)	CN	Description
22.271	77	Woods, Good, HSG D
7.569	78	Meadow, non-grazed, HSG D
29.840	77	Weighted Average
29.840		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	63	0.0605	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
11.3	37	0.0210	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.25"
1.6	94	0.0382	0.98		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	246	0.0411	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	842	0.1342	1.83		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.7	1,282	Total			

Subcatchment DA-3: DA-3

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Type II 24-hr 10 YR Rainfall=3.50"

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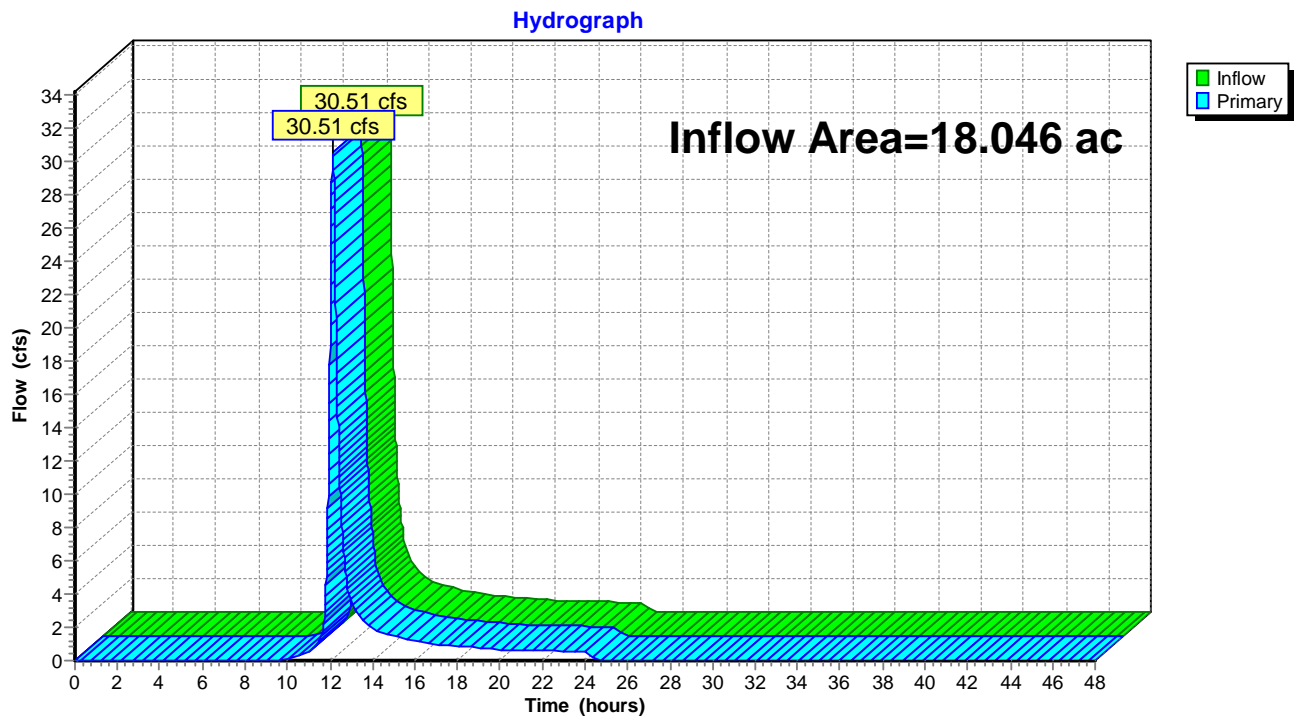
Page 15

Summary for Link DP-1: Design Point #1

Inflow Area = 18.046 ac, 3.80% Impervious, Inflow Depth = 1.57" for 10 YR event
Inflow = 30.51 cfs @ 12.14 hrs, Volume= 2.355 af
Primary = 30.51 cfs @ 12.14 hrs, Volume= 2.355 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-1: Design Point #1



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Type II 24-hr 10 YR Rainfall=3.50"

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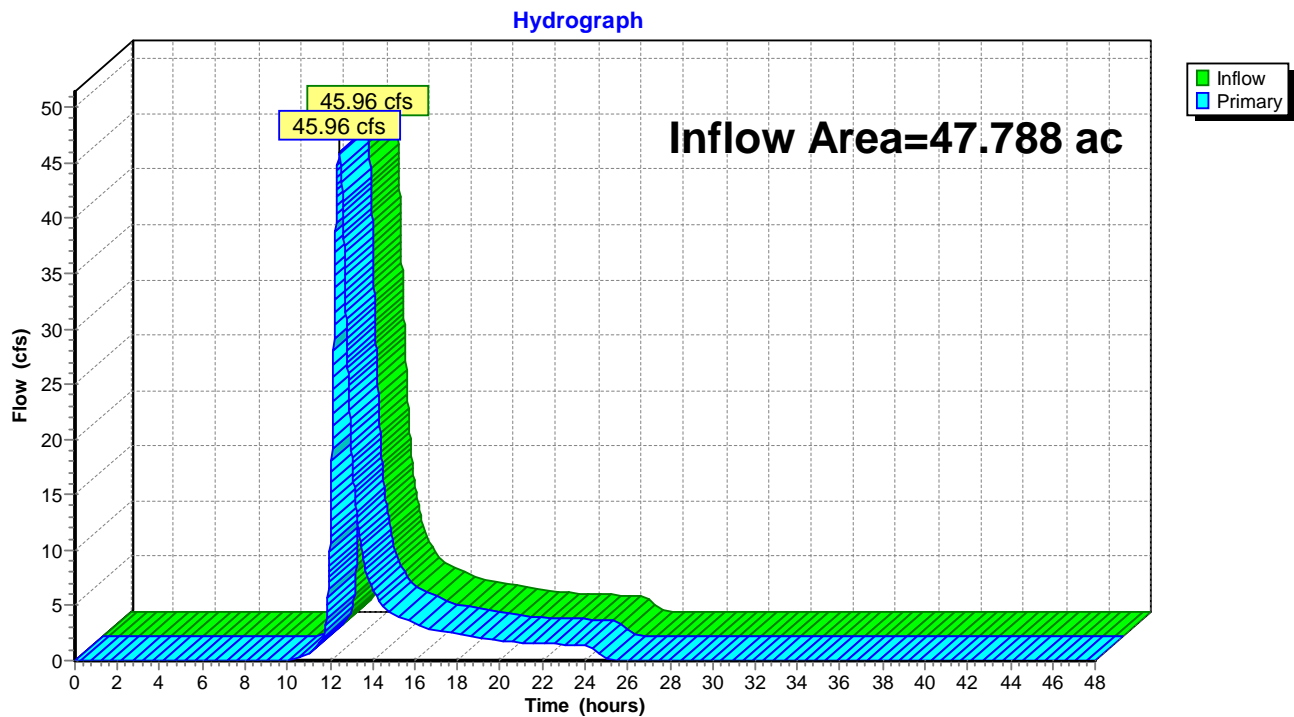
Page 16

Summary for Link DP-2: Design Point #2

Inflow Area = 47.788 ac, 0.53% Impervious, Inflow Depth = 1.50" for 10 YR event
Inflow = 45.96 cfs @ 12.46 hrs, Volume= 5.963 af
Primary = 45.96 cfs @ 12.46 hrs, Volume= 5.963 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-2: Design Point #2



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Type II 24-hr 10 YR Rainfall=3.50"

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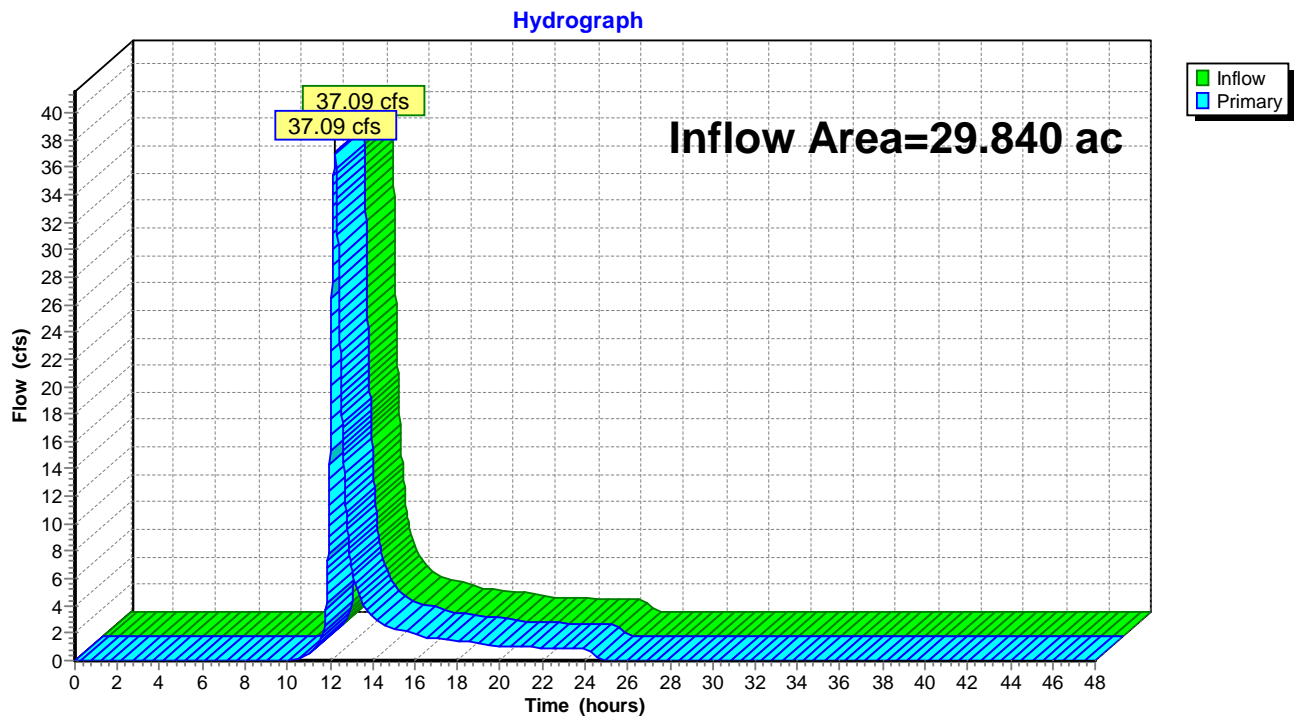
Page 17

Summary for Link DP-3: Design Point #3

Inflow Area = 29.840 ac, 0.00% Impervious, Inflow Depth = 1.43" for 10 YR event
Inflow = 37.09 cfs @ 12.24 hrs, Volume= 3.557 af
Primary = 37.09 cfs @ 12.24 hrs, Volume= 3.557 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-3: Design Point #3



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Type II 24-hr 100 YR Rainfall=6.50"

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Summary for Subcatchment DA-1: DA-1

Runoff = 80.99 cfs @ 12.13 hrs, Volume= 6.210 af, Depth= 4.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 YR Rainfall=6.50"

Area (ac)	CN	Description
2.626	77	Woods, Good, HSG D
14.552	78	Meadow, non-grazed, HSG D
0.218	98	Roofs, HSG D
0.144	93	Paved roads w/open ditches, 50% imp, HSG D
0.396	98	Water Surface, HSG D
0.043	96	Gravel surface, HSG D
* 0.067	77	Palustrine Forest Wetland
18.046	79	Weighted Average
17.360		96.20% Pervious Area
0.686		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0990	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
2.8	369	0.0972	2.18		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.9	445	0.0704	3.98		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
1.9	208	0.0656	1.79		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.9	506	0.0452	1.06		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
20.7	1,628	Total			

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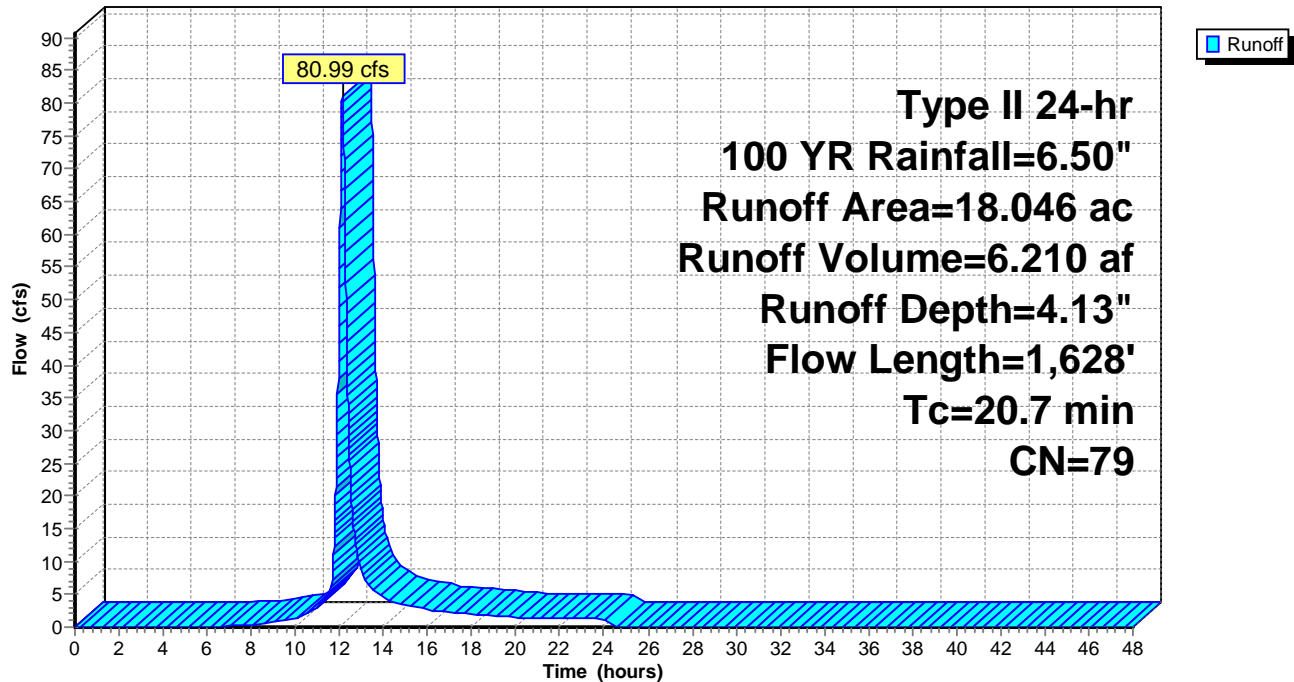
Type II 24-hr 100 YR Rainfall=6.50"

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Subcatchment DA-1: DA-1

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Type II 24-hr 100 YR Rainfall=6.50"

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Summary for Subcatchment DA-2: DA-2

Runoff = 127.06 cfs @ 12.42 hrs, Volume= 16.024 af, Depth= 4.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 YR Rainfall=6.50"

Area (ac)	CN	Description
9.353	77	Woods, Good, HSG D
36.598	78	Meadow, non-grazed, HSG D
0.099	98	Roofs, HSG D
0.268	93	Paved roads w/open ditches, 50% imp, HSG D
0.015	96	Gravel surface, HSG D
* 0.131	77	Palustrine Forest Wetland
* 0.018	98	Concrete Equipment Pad
* 1.306	75	Limited Use Pervious Gravel Driveway
47.788	78	Weighted Average
47.537		99.47% Pervious Area
0.251		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	100	0.0035	0.07		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
5.2	562	0.0664	1.80		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.1	32	0.0010	0.47		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
8.8	1,024	0.0763	1.93		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.1	565	0.0955	1.55		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.7	2,283	Total			

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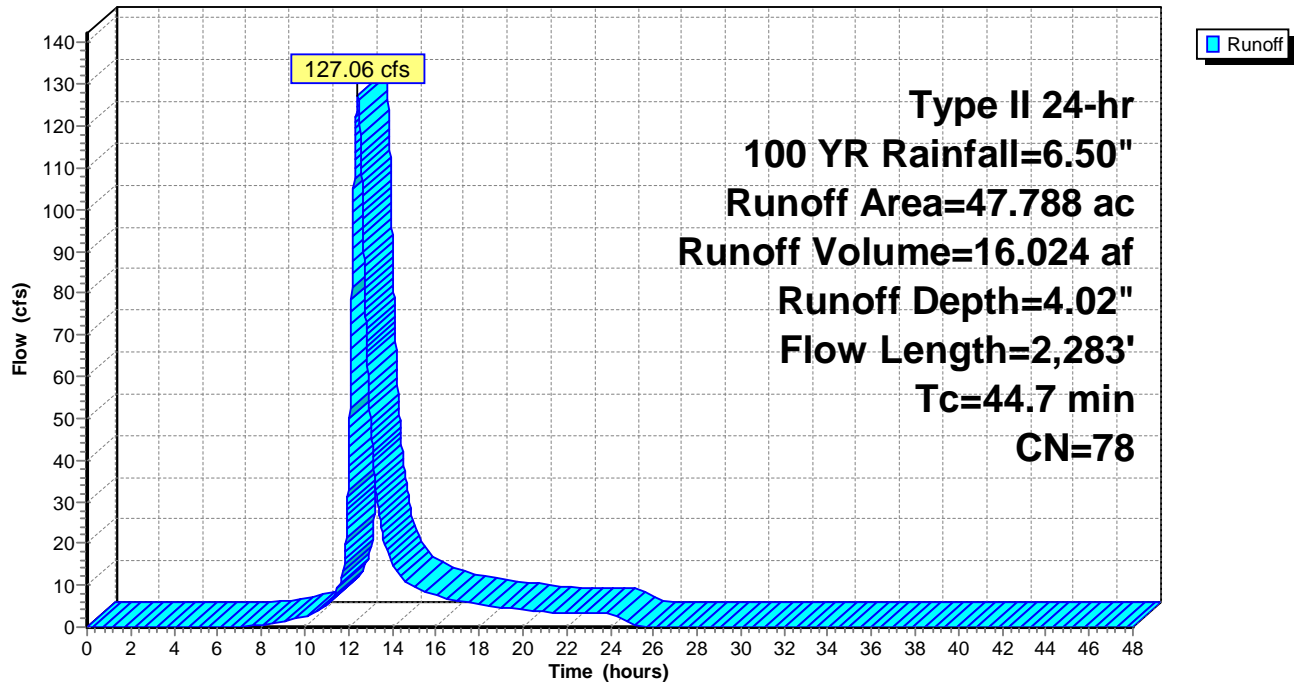
Type II 24-hr 100 YR Rainfall=6.50"

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Subcatchment DA-2: DA-2

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Type II 24-hr 100 YR Rainfall=6.50"

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Summary for Subcatchment DA-3: DA-3

Runoff = 104.67 cfs @ 12.22 hrs, Volume= 9.746 af, Depth= 3.92"

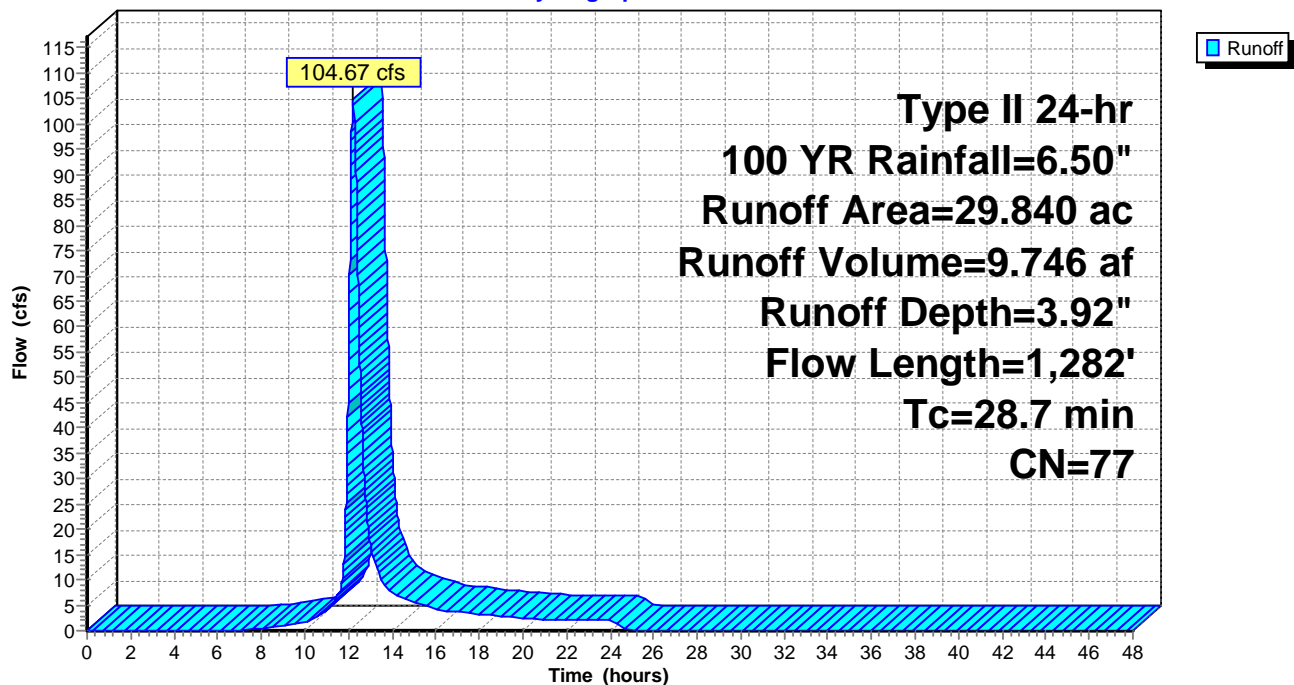
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type II 24-hr 100 YR Rainfall=6.50"

Area (ac)	CN	Description
22.271	77	Woods, Good, HSG D
7.569	78	Meadow, non-grazed, HSG D
29.840	77	Weighted Average
29.840		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	63	0.0605	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 2.25"
11.3	37	0.0210	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.25"
1.6	94	0.0382	0.98		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	246	0.0411	1.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
7.7	842	0.1342	1.83		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.7	1,282	Total			

Subcatchment DA-3: DA-3

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Type II 24-hr 100 YR Rainfall=6.50"

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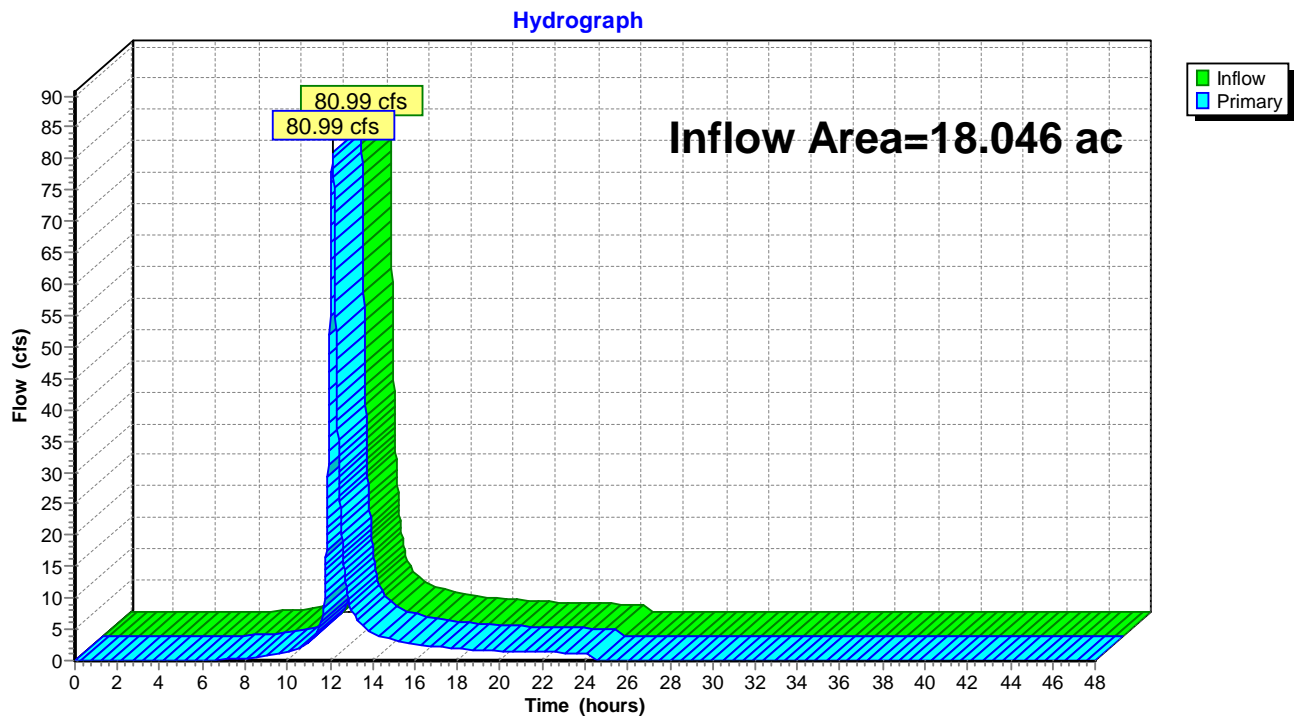
Page 23

Summary for Link DP-1: Design Point #1

Inflow Area = 18.046 ac, 3.80% Impervious, Inflow Depth = 4.13" for 100 YR event
Inflow = 80.99 cfs @ 12.13 hrs, Volume= 6.210 af
Primary = 80.99 cfs @ 12.13 hrs, Volume= 6.210 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-1: Design Point #1



Post Driveway Ext

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Type II 24-hr 100 YR Rainfall=6.50"

Printed 12/27/2021

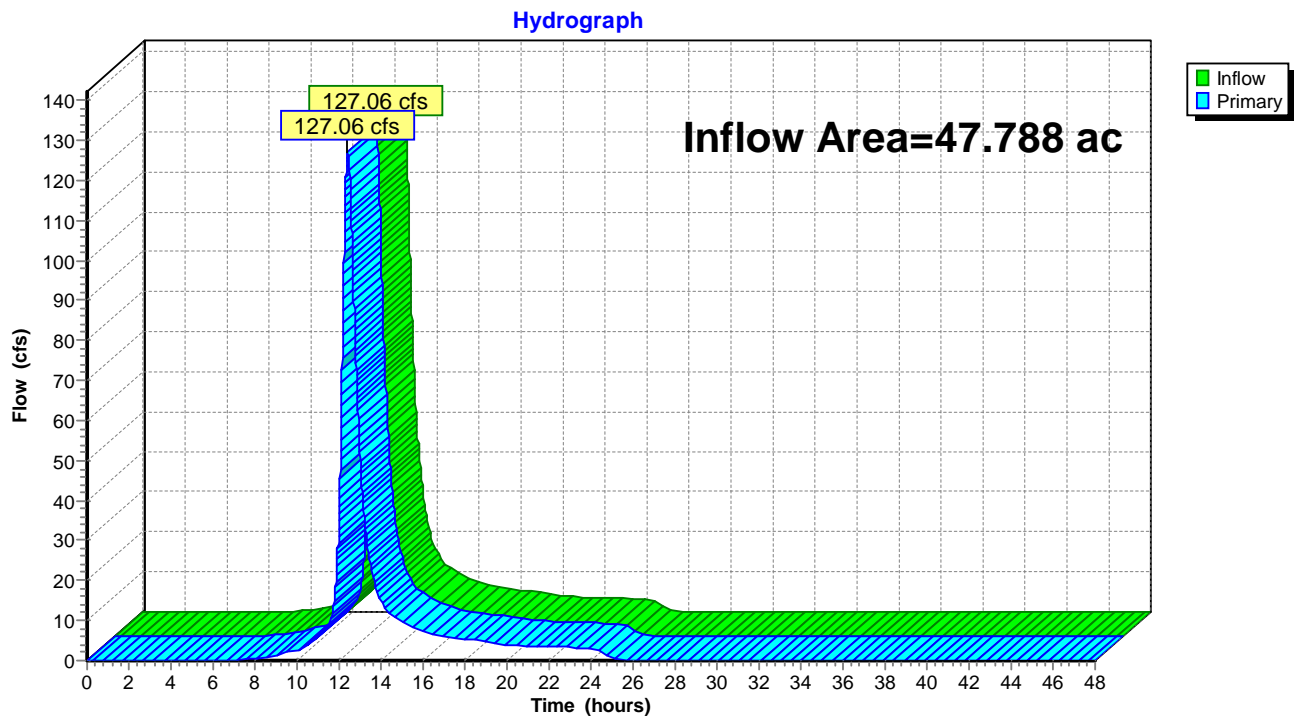
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Summary for Link DP-2: Design Point #2

Inflow Area = 47.788 ac, 0.53% Impervious, Inflow Depth = 4.02" for 100 YR event
Inflow = 127.06 cfs @ 12.42 hrs, Volume= 16.024 af
Primary = 127.06 cfs @ 12.42 hrs, Volume= 16.024 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-2: Design Point #2



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Summary for Link DP-3: Design Point #3

Inflow Area = 29.840 ac, 0.00% Impervious, Inflow Depth = 3.92" for 100 YR event
Inflow = 104.67 cfs @ 12.22 hrs, Volume= 9.746 af
Primary = 104.67 cfs @ 12.22 hrs, Volume= 9.746 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link DP-3: Design Point #3

