

Routing Diagram for 19 Hancock Street. Winchester HydroCAD (12-22-22-final)
 Prepared by Hayes & Associates, Printed 12/26/2022
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.063	98	(E) Driveway (1S)
0.006	98	(E) Front Porch (1S, 5S)
0.001	98	(E) Front Stairs (1S, 5S)
0.006	98	(E) Front Walkway (1S, 5S)
0.019	98	(E) Garage (1S, 4S)
0.028	98	(E) House (4S)
0.028	98	(E) Main House Roof Area (1S)
0.015	98	(E) Rear Deck (1S, 5S)
0.002	98	(E) Rear Stairs (1S, 5S)
0.001	98	(P) Front Porch (10S)
0.001	98	(P) Front Stairs (10S)
0.002	98	(P) Front Walkway (10S)
0.013	98	(P) Garage (8S)
0.031	98	(P) House (8S)
0.021	98	(P) Paved Pool Area (11S)
0.006	98	(P) Rear Deck (10S)
0.384	39	>75% Grass cover, Good, HSG A (1S, 5S, 10S)
0.062	98	Pervious Pavement (3S, 9S)
0.689	65	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.384	HSG A	1S, 5S, 10S
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.304	Other	1S, 3S, 4S, 5S, 8S, 9S, 10S, 11S
0.689		TOTAL AREA

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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	0.000	0.063	0.063	(E) Driveway	1S
0.000	0.000	0.000	0.000	0.006	0.006	(E) Front Porch	1S, 5S
0.000	0.000	0.000	0.000	0.001	0.001	(E) Front Stairs	1S, 5S
0.000	0.000	0.000	0.000	0.006	0.006	(E) Front Walkway	1S, 5S
0.000	0.000	0.000	0.000	0.019	0.019	(E) Garage	1S, 4S
0.000	0.000	0.000	0.000	0.028	0.028	(E) House	4S
0.000	0.000	0.000	0.000	0.028	0.028	(E) Main House Roof Area	1S
0.000	0.000	0.000	0.000	0.015	0.015	(E) Rear Deck	1S, 5S
0.000	0.000	0.000	0.000	0.002	0.002	(E) Rear Stairs	1S, 5S
0.000	0.000	0.000	0.000	0.001	0.001	(P) Front Porch	10S
0.000	0.000	0.000	0.000	0.001	0.001	(P) Front Stairs	10S
0.000	0.000	0.000	0.000	0.002	0.002	(P) Front Walkway	10S
0.000	0.000	0.000	0.000	0.013	0.013	(P) Garage	8S
0.000	0.000	0.000	0.000	0.031	0.031	(P) House	8S
0.000	0.000	0.000	0.000	0.021	0.021	(P) Paved Pool Area	11S
0.000	0.000	0.000	0.000	0.006	0.006	(P) Rear Deck	10S
0.384	0.000	0.000	0.000	0.000	0.384	>75% Grass cover, Good	1S, 5S, 10S
0.000	0.000	0.000	0.000	0.062	0.062	Pervious Pavement	3S, 9S
0.384	0.000	0.000	0.000	0.304	0.689	TOTAL AREA	

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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	2R	1.00	0.00	1.0	1.0000	0.009	24.0	0.0	0.0
2	7R	2.50	2.00	1.0	0.5000	0.009	24.0	0.0	0.0
3	14R	2.50	2.00	1.0	0.5000	0.009	24.0	0.0	0.0
4	15R	1.00	0.00	1.0	1.0000	0.009	24.0	0.0	0.0

19 Hancock Street. Winchester HydroCAD (12-22-2) Type III 24-hr 100 YEAR Rainfall=8.92"

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Time span=0.00-20.00 hrs, dt=0.01 hrs, 2001 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: Existing Site	Runoff Area=15,000 sf 33.47% Impervious Runoff Depth>3.62" Tc=6.0 min CN=59 Runoff=1.57 cfs 0.104 af
Subcatchment 3S: Pervious Driveway	Runoff Area=1,852 sf 100.00% Impervious Runoff Depth>8.29" Tc=6.0 min CN=98 Runoff=0.37 cfs 0.029 af
Subcatchment 4S: (E) House & Garage	Runoff Area=1,605 sf 100.00% Impervious Runoff Depth>8.29" Tc=6.0 min CN=98 Runoff=0.32 cfs 0.025 af
Subcatchment 5S: Proposed Site	Runoff Area=4,043 sf 16.32% Impervious Runoff Depth>2.46" Tc=6.0 min CN=49 Runoff=0.28 cfs 0.019 af
Subcatchment 8S: (P) House & Garage	Runoff Area=1,937 sf 100.00% Impervious Runoff Depth>8.29" Tc=6.0 min CN=98 Runoff=0.39 cfs 0.031 af
Subcatchment 9S: Pervious Pavement	Runoff Area=828 sf 100.00% Impervious Runoff Depth>8.29" Tc=6.0 min CN=98 Runoff=0.17 cfs 0.013 af
Subcatchment 10S: Proposed Site	Runoff Area=3,805 sf 11.25% Impervious Runoff Depth>2.13" Tc=6.0 min CN=46 Runoff=0.22 cfs 0.016 af
Subcatchment 11S: Pool Deck	Runoff Area=930 sf 100.00% Impervious Runoff Depth>8.29" Tc=6.0 min CN=98 Runoff=0.19 cfs 0.015 af
Reach 2R: Preconstruction Evaluation	Avg. Flow Depth=0.10' Max Vel=26.70 fps Inflow=1.57 cfs 0.104 af 24.0" Round Pipe n=0.009 L=1.0' S=1.0000 '/ Capacity=326.77 cfs Outflow=1.57 cfs 0.104 af
Reach 7R: Existing House #19	Avg. Flow Depth=0.09' Max Vel=17.23 fps Inflow=0.81 cfs 0.035 af 24.0" Round Pipe n=0.009 L=1.0' S=0.5000 '/ Capacity=231.06 cfs Outflow=0.81 cfs 0.035 af
Reach 14R: Proposed House #17	Avg. Flow Depth=0.08' Max Vel=15.63 fps Inflow=0.62 cfs 0.023 af 24.0" Round Pipe n=0.009 L=1.0' S=0.5000 '/ Capacity=231.06 cfs Outflow=0.62 cfs 0.023 af
Reach 15R: Postconstruction	Avg. Flow Depth=0.09' Max Vel=24.97 fps Inflow=1.25 cfs 0.059 af 24.0" Round Pipe n=0.009 L=1.0' S=1.0000 '/ Capacity=326.77 cfs Outflow=1.25 cfs 0.059 af
Pond 6P: Infiltration System	Peak Elev=79.57' Storage=440 cf Inflow=0.70 cfs 0.055 af Discarded=0.02 cfs 0.029 af Primary=0.53 cfs 0.016 af Outflow=0.56 cfs 0.045 af
Pond 12P: Infiltration System	Peak Elev=79.29' Storage=541 cf Inflow=0.56 cfs 0.044 af Discarded=0.03 cfs 0.030 af Primary=0.43 cfs 0.008 af Outflow=0.46 cfs 0.038 af
Pond 13P: Planting Bed Infiltration	Peak Elev=75.50' Storage=0.000 af Inflow=0.19 cfs 0.015 af Discarded=0.19 cfs 0.015 af Primary=0.00 cfs 0.000 af Outflow=0.19 cfs 0.015 af

Total Runoff Area = 0.689 ac Runoff Volume = 0.252 af Average Runoff Depth = 4.39"
55.80% Pervious = 0.384 ac 44.20% Impervious = 0.304 ac

Summary for Subcatchment 1S: Existing Site

Runoff = 1.57 cfs @ 12.09 hrs, Volume= 0.104 af, Depth> 3.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

	Area (sf)	CN	Description
*	1,201	98	(E) Main House Roof Area
*	132	98	(E) Front Porch
*	16	98	(E) Front Stairs
*	140	98	(E) Front Walkway
*	319	98	(E) Rear Deck
*	53	98	(E) Rear Stairs
*	2,756	98	(E) Driveway
*	404	98	(E) Garage
	9,979	39	>75% Grass cover, Good, HSG A
	15,000	59	Weighted Average
	9,979		66.53% Pervious Area
	5,021		33.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, (minimum Tc is 0.1 hr)

Summary for Subcatchment 3S: Pervious Driveway

Runoff = 0.37 cfs @ 12.08 hrs, Volume= 0.029 af, Depth> 8.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

Area (sf)	CN	Description
* 1,852	98	Pervious Pavement
1,852		100.00% Impervious Area

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

Summary for Subcatchment 4S: (E) House & Garage

Runoff = 0.32 cfs @ 12.08 hrs, Volume= 0.025 af, Depth> 8.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

	Area (sf)	CN	Description
*	1,201	98	(E) House
*	404	98	(E) Garage
	1,605	98	Weighted Average
	1,605		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, (minimum Tc is 0.1 hr)

Summary for Subcatchment 5S: Proposed Site

Runoff = 0.28 cfs @ 12.10 hrs, Volume= 0.019 af, Depth> 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

	Area (sf)	CN	Description
*	132	98	(E) Front Porch
*	16	98	(E) Front Stairs
*	140	98	(E) Front Walkway
*	319	98	(E) Rear Deck
*	53	98	(E) Rear Stairs
	3,383	39	>75% Grass cover, Good, HSG A
	4,043	49	Weighted Average
	3,383		83.68% Pervious Area
	660		16.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, (minimum Tc is 0.1 hr)

Summary for Subcatchment 8S: (P) House & Garage

Runoff = 0.39 cfs @ 12.08 hrs, Volume= 0.031 af, Depth> 8.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

	Area (sf)	CN	Description
*	1,364	98	(P) House
*	573	98	(P) Garage
	1,937	98	Weighted Average
	1,937		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, (minimum Tc is 0.1 hr)

Summary for Subcatchment 9S: Pervious Pavement

Runoff = 0.17 cfs @ 12.08 hrs, Volume= 0.013 af, Depth> 8.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

Area (sf)	CN	Description
* 828	98	Pervious Pavement
828		100.00% Impervious Area

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

Summary for Subcatchment 10S: Proposed Site

Runoff = 0.22 cfs @ 12.10 hrs, Volume= 0.016 af, Depth> 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

Area (sf)	CN	Description
* 30	98	(P) Front Porch
* 25	98	(P) Front Stairs
* 103	98	(P) Front Walkway
* 270	98	(P) Rear Deck
3,377	39	>75% Grass cover, Good, HSG A
3,805	46	Weighted Average
3,377		88.75% Pervious Area
428		11.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, (minimum Tc is 0.1 hr)

Summary for Subcatchment 11S: Pool Deck

Runoff = 0.19 cfs @ 12.08 hrs, Volume= 0.015 af, Depth> 8.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100 YEAR Rainfall=8.92"

Area (sf)	CN	Description
* 930	98	(P) Paved Pool Area
930		100.00% Impervious Area

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

Summary for Reach 2R: Preconstruction Evaluation Point

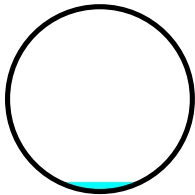
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.344 ac, 33.47% Impervious, Inflow Depth > 3.62" for 100 YEAR event
Inflow = 1.57 cfs @ 12.09 hrs, Volume= 0.104 af
Outflow = 1.57 cfs @ 12.09 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
Max. Velocity= 26.70 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 11.36 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.10'
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 326.77 cfs

24.0" Round Pipe
n= 0.009 PVC, smooth interior
Length= 1.0' Slope= 1.0000 '/
Inlet Invert= 1.00', Outlet Invert= 0.00'



Summary for Reach 7R: Existing House #19

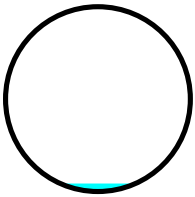
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.172 ac, 54.89% Impervious, Inflow Depth > 2.46" for 100 YEAR event
Inflow = 0.81 cfs @ 12.09 hrs, Volume= 0.035 af
Outflow = 0.81 cfs @ 12.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs / 2
Max. Velocity= 17.23 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 7.28 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.09'
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 231.06 cfs

24.0" Round Pipe
n= 0.009 PVC, smooth interior
Length= 1.0' Slope= 0.5000 '/
Inlet Invert= 2.50', Outlet Invert= 2.00'



Summary for Reach 14R: Proposed House #17

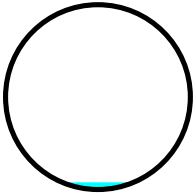
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.172 ac, 54.97% Impervious, Inflow Depth > 1.63" for 100 YEAR event
Inflow = 0.62 cfs @ 12.15 hrs, Volume= 0.023 af
Outflow = 0.62 cfs @ 12.15 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs / 2
Max. Velocity= 15.63 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 7.03 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.08'
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 231.06 cfs

24.0" Round Pipe
n= 0.009 PVC, smooth interior
Length= 1.0' Slope= 0.5000 '/
Inlet Invert= 2.50', Outlet Invert= 2.00'



Summary for Reach 15R: Postconstruction Evaluation Point

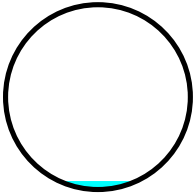
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 0.344 ac, 54.93% Impervious, Inflow Depth > 2.05" for 100 YEAR event
Inflow = 1.25 cfs @ 12.15 hrs, Volume= 0.059 af
Outflow = 1.25 cfs @ 12.15 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs / 2
Max. Velocity= 24.97 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 10.48 fps, Avg. Travel Time= 0.0 min

Peak Storage= 0 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.09'
Bank-Full Depth= 2.00' Flow Area= 3.1 sf, Capacity= 326.77 cfs

24.0" Round Pipe
n= 0.009 PVC, smooth interior
Length= 1.0' Slope= 1.0000 '/
Inlet Invert= 1.00', Outlet Invert= 0.00'



Summary for Pond 6P: Infiltration System

Inflow Area = 0.079 ac, 100.00% Impervious, Inflow Depth > 8.29" for 100 YEAR event
 Inflow = 0.70 cfs @ 12.08 hrs, Volume= 0.055 af
 Outflow = 0.56 cfs @ 12.09 hrs, Volume= 0.045 af, Atten= 20%, Lag= 0.4 min
 Discarded = 0.02 cfs @ 9.12 hrs, Volume= 0.029 af
 Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.016 af

Routing by Stor-Ind method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs / 2
 Peak Elev= 79.57' @ 12.09 hrs Surf.Area= 1,050 sf Storage= 440 cf

Plug-Flow detention time= 94.4 min calculated for 0.045 af (83% of inflow)
 Center-of-Mass det. time= 41.6 min (754.2 - 712.6)

Volume	Invert	Avail.Storage	Storage Description
#1	75.50'	413 cf	7.00'W x 150.00'L x 1.00'H Prismatic 1,050 cf Overall - 17 cf Embedded = 1,033 cf x 40.0% Voids
#2	75.75'	17 cf	4.0" Round Pipe Storage x 2 Inside #1 L= 100.0'
#3	75.75'	9 cf	4.0" Round Pipe Storage -Impervious L= 100.0' S= 0.0100 '/'
#4	75.75'	1 cf	0.33'D x 4.00'H Vertical Cone/Cylinder x 2 -Impervious
		440 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	79.00'	4.0" Vert. Orifice/Grate X 2.00 C= 0.600
#2	Discarded	75.50'	1.020 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.02 cfs @ 9.12 hrs HW=75.54' (Free Discharge)
 ↳ **2=Exfiltration** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.53 cfs @ 12.09 hrs HW=79.57' (Free Discharge)
 ↳ **1=Orifice/Grate** (Orifice Controls 0.53 cfs @ 3.04 fps)

Summary for Pond 12P: Infiltration System

Inflow Area = 0.063 ac, 100.00% Impervious, Inflow Depth > 8.29" for 100 YEAR event
 Inflow = 0.56 cfs @ 12.08 hrs, Volume= 0.044 af
 Outflow = 0.46 cfs @ 12.15 hrs, Volume= 0.038 af, Atten= 17%, Lag= 4.3 min
 Discarded = 0.03 cfs @ 10.31 hrs, Volume= 0.030 af
 Primary = 0.43 cfs @ 12.15 hrs, Volume= 0.008 af

Routing by Stor-Ind method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs / 7
 Peak Elev= 79.29' @ 12.15 hrs Surf.Area= 1,200 sf Storage= 541 cf

Plug-Flow detention time= 110.6 min calculated for 0.038 af (87% of inflow)
 Center-of-Mass det. time= 68.0 min (780.6 - 712.6)

Volume	Invert	Avail.Storage	Storage Description
#1	75.50'	226 cf	4.00'W x 150.00'L x 1.00'H Prismatic 600 cf Overall - 35 cf Embedded = 565 cf x 40.0% Voids
#2	75.75'	35 cf	4.0" Round Pipe Storage x 4 Inside #1 L= 100.0'
#3	75.75'	9 cf	4.0" Round Pipe Storage -Impervious L= 100.0' S= 0.0100 '/'
#4	75.75'	1 cf	0.33'D x 4.00'H Vertical Cone/Cylinder x 2 -Impervious
		270 cf	x 2.00 = 541 cf Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	78.00'	4.0" Vert. Orifice/Grate C= 0.600
#2	Discarded	75.50'	1.020 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.03 cfs @ 10.31 hrs HW=75.54' (Free Discharge)
 ↳ **2=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=0.38 cfs @ 12.15 hrs HW=79.00' (Free Discharge)
 ↳ **1=Orifice/Grate** (Orifice Controls 0.38 cfs @ 4.39 fps)

Summary for Pond 13P: Planting Bed Infiltration

Inflow Area = 0.021 ac, 100.00% Impervious, Inflow Depth > 8.29" for 100 YEAR event
 Inflow = 0.19 cfs @ 12.08 hrs, Volume= 0.015 af
 Outflow = 0.19 cfs @ 12.08 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.19 cfs @ 12.08 hrs, Volume= 0.015 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-20.00 hrs, dt= 0.01 hrs
 Peak Elev= 75.50' @ 12.08 hrs Surf.Area= 0.001 ac Storage= 0.000 af

Plug-Flow detention time= 0.0 min calculated for 0.015 af (100% of inflow)
 Center-of-Mass det. time= 0.0 min (712.6 - 712.6)

Volume	Invert	Avail.Storage	Storage Description
#1	75.50'	0.001 af	3.00'W x 20.00'L x 1.00'H Prismatic 0.001 af Overall - 0.000 af Embedded = 0.001 af x 40.0% Voids
#2	75.75'	0.000 af	4.0" Round Pipe Storage Inside #1 L= 10.0' S= 0.0001 '/'
#3	75.85'	0.000 af	0.33'D x 2.00'H Vertical Cone/Cylinder
		0.001 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	75.50'	1.02 cfs Exfiltration at all elevations
#2	Primary	77.25'	4.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.02 cfs @ 12.08 hrs HW=75.50' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 1.02 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=75.50' (Free Discharge)
 ↑2=Orifice/Grate (Controls 0.00 cfs)