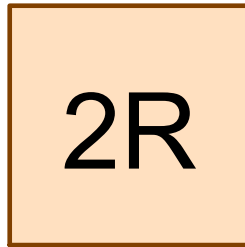
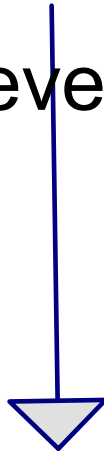
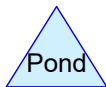
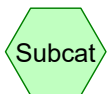


pre developed



(new Reach)



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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.164	67	Brush, Poor, HSG B (1S)
2.164	67	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
2.164	HSG B	1S
0.000	HSG C	
0.000	HSG D	
0.000	Other	
2.164		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	2.164	0.000	0.000	0.000	2.164	Brush, Poor	1S
0.000	2.164	0.000	0.000	0.000	2.164	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	853.80	853.00	70.0	0.0114	0.013	18.0	0.0	0.0

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Type II 24-hr 2-Year Rainfall=2.23"

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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: pre developed

Runoff Area=2.164 ac 0.00% Impervious Runoff Depth>0.16"
Flow Length=482' Tc=254.7 min CN=67 Runoff=0.07 cfs 0.028 af

Reach 2R: (new Reach)

Avg. Flow Depth=0.08' Max Vel=1.77 fps Inflow=0.07 cfs 0.028 af
18.0" Round Pipe n=0.013 L=70.0' S=0.0114 '/' Capacity=11.23 cfs Outflow=0.07 cfs 0.028 af

Total Runoff Area = 2.164 ac Runoff Volume = 0.028 af Average Runoff Depth = 0.16"
100.00% Pervious = 2.164 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: pre developed

Runoff = 0.07 cfs @ 16.11 hrs, Volume= 0.028 af, Depth> 0.16"

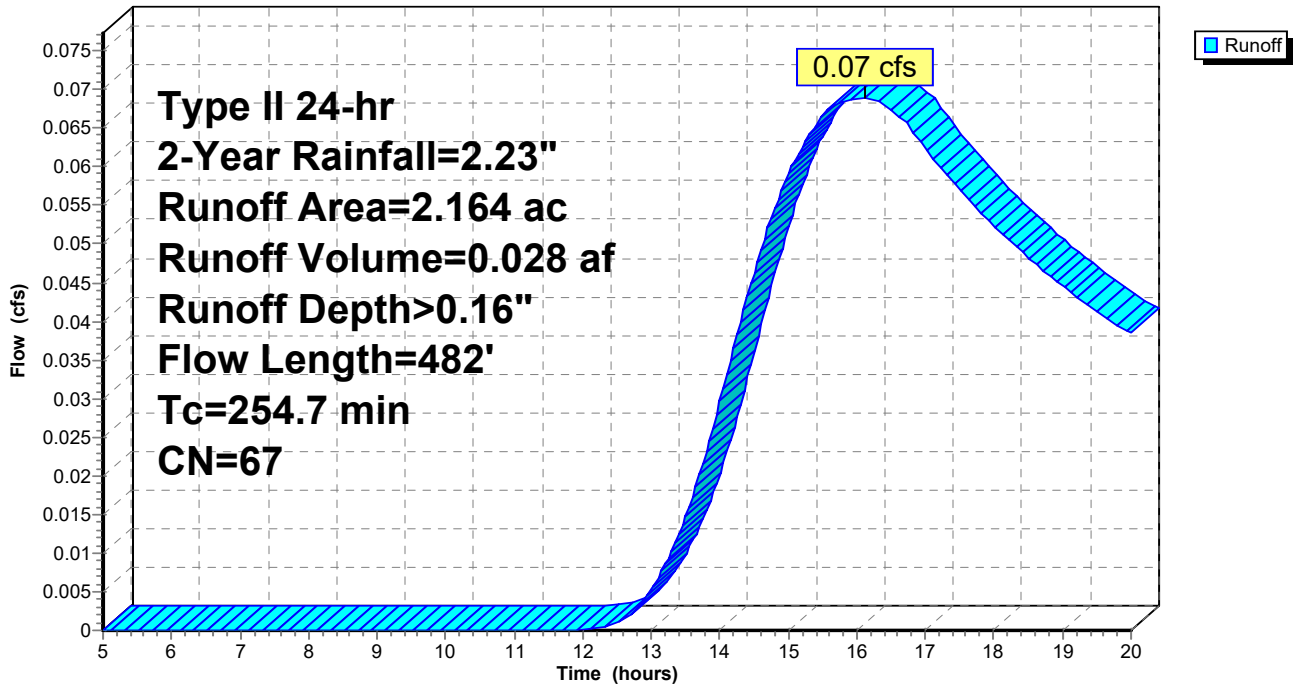
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type II 24-hr 2-Year Rainfall=2.23"

Area (ac)	CN	Description
2.164	67	Brush, Poor, HSG B
2.164		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
253.1	170	0.0290	0.01		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 0.04"
1.5	282	0.2120	3.22		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	30	0.2330	3.38		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
254.7	482	Total			

Subcatchment 1S: pre developed

Hydrograph



Summary for Reach 2R: (new Reach)

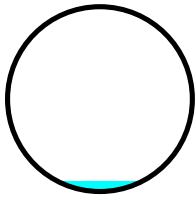
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.164 ac, 0.00% Impervious, Inflow Depth > 0.16" for 2-Year event
 Inflow = 0.07 cfs @ 16.11 hrs, Volume= 0.028 af
 Outflow = 0.07 cfs @ 16.13 hrs, Volume= 0.028 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 1.77 fps, Min. Travel Time= 0.7 min
 Avg. Velocity = 1.44 fps, Avg. Travel Time= 0.8 min

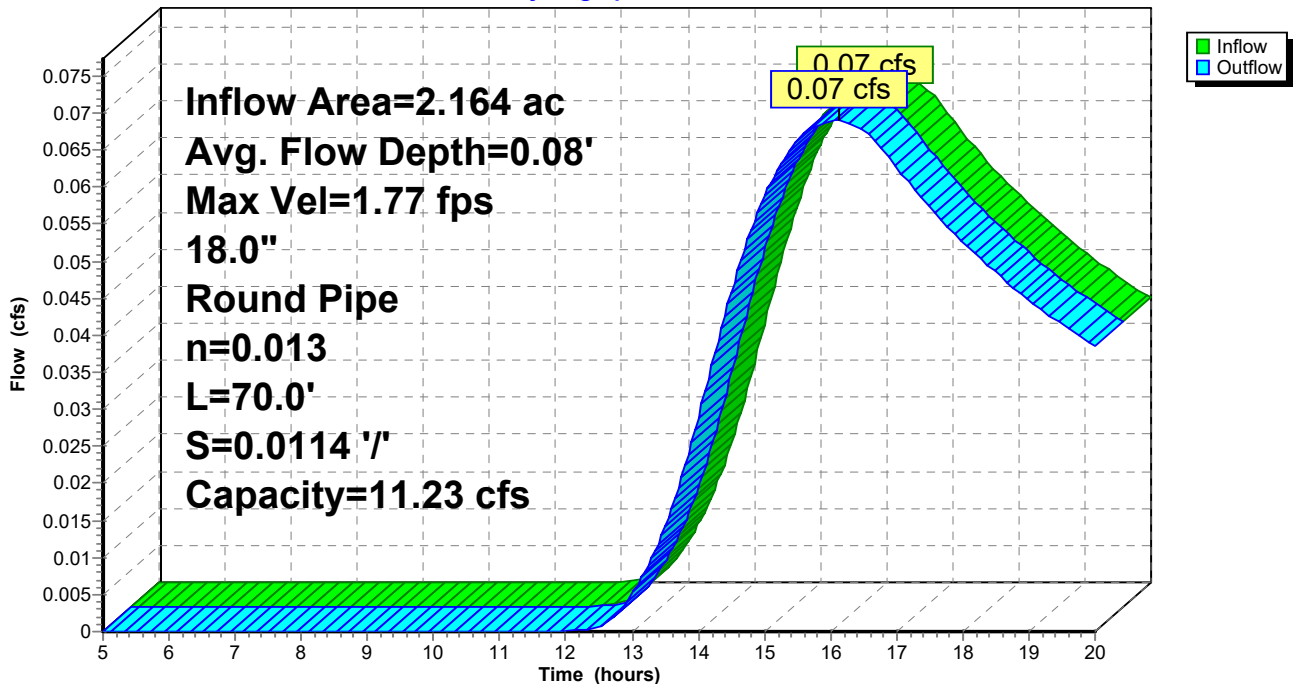
Peak Storage= 3 cf @ 16.12 hrs
 Average Depth at Peak Storage= 0.08'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.23 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 70.0' Slope= 0.0114 '/'
 Inlet Invert= 853.80', Outlet Invert= 853.00'



Reach 2R: (new Reach)

Hydrograph



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Type II 24-hr 10-Year Rainfall=3.23"

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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: pre developed

Runoff Area=2.164 ac 0.00% Impervious Runoff Depth>0.49"
Flow Length=482' Tc=254.7 min CN=67 Runoff=0.23 cfs 0.089 af

Reach 2R: (new Reach)

Avg. Flow Depth=0.15' Max Vel=2.52 fps Inflow=0.23 cfs 0.089 af
18.0" Round Pipe n=0.013 L=70.0' S=0.0114 '/' Capacity=11.23 cfs Outflow=0.23 cfs 0.089 af

Total Runoff Area = 2.164 ac Runoff Volume = 0.089 af Average Runoff Depth = 0.49"
100.00% Pervious = 2.164 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: pre developed

Runoff = 0.23 cfs @ 15.58 hrs, Volume= 0.089 af, Depth> 0.49"

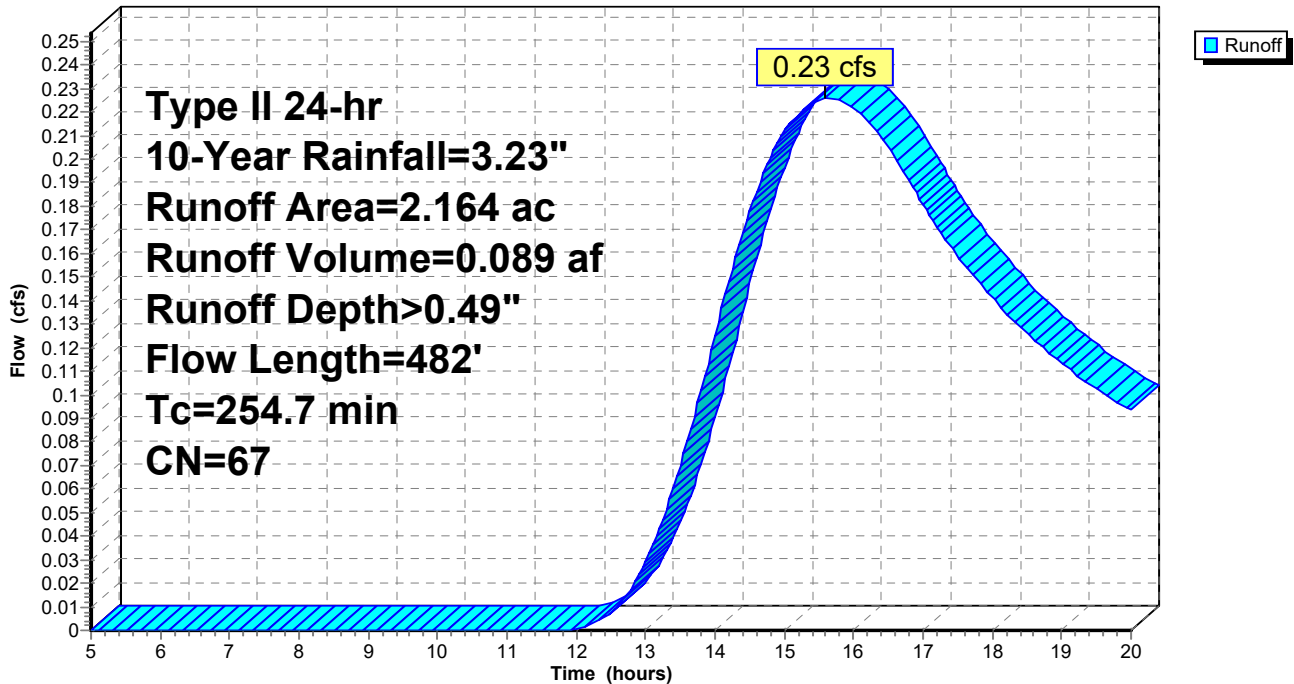
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-Year Rainfall=3.23"

Area (ac)	CN	Description
2.164	67	Brush, Poor, HSG B
2.164		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
253.1	170	0.0290	0.01		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 0.04"
1.5	282	0.2120	3.22		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	30	0.2330	3.38		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
254.7	482	Total			

Subcatchment 1S: pre developed

Hydrograph



Summary for Reach 2R: (new Reach)

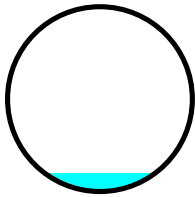
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.164 ac, 0.00% Impervious, Inflow Depth > 0.49" for 10-Year event
 Inflow = 0.23 cfs @ 15.58 hrs, Volume= 0.089 af
 Outflow = 0.23 cfs @ 15.60 hrs, Volume= 0.089 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 2.52 fps, Min. Travel Time= 0.5 min
 Avg. Velocity = 2.03 fps, Avg. Travel Time= 0.6 min

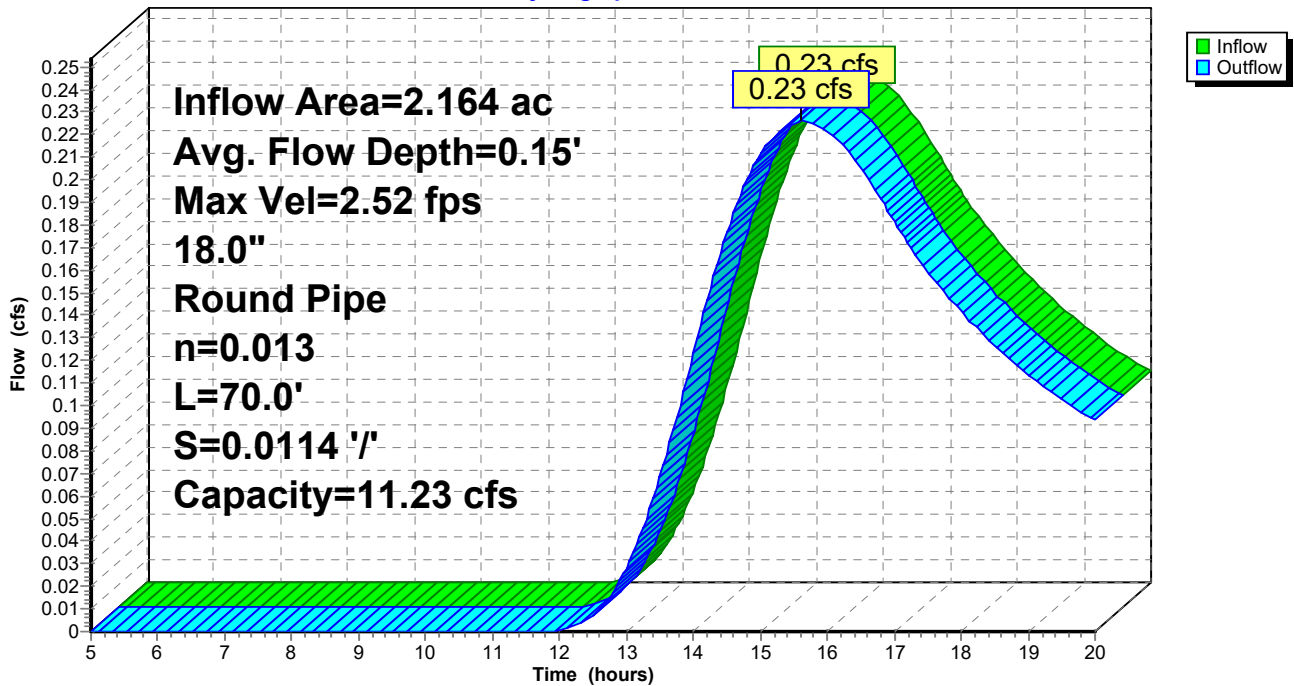
Peak Storage= 6 cf @ 15.59 hrs
 Average Depth at Peak Storage= 0.15'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.23 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 70.0' Slope= 0.0114 '/'
 Inlet Invert= 853.80', Outlet Invert= 853.00'



Reach 2R: (new Reach)

Hydrograph



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Type II 24-hr 100-Year Rainfall=5.52"

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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: pre developed

Runoff Area=2.164 ac 0.00% Impervious Runoff Depth>1.65"
Flow Length=482' Tc=254.7 min CN=67 Runoff=0.78 cfs 0.297 af

Reach 2R: (new Reach)

Avg. Flow Depth=0.27' Max Vel=3.66 fps Inflow=0.78 cfs 0.297 af
18.0" Round Pipe n=0.013 L=70.0' S=0.0114 '/' Capacity=11.23 cfs Outflow=0.78 cfs 0.297 af

Total Runoff Area = 2.164 ac Runoff Volume = 0.297 af Average Runoff Depth = 1.65"
100.00% Pervious = 2.164 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: pre developed

Runoff = 0.78 cfs @ 15.30 hrs, Volume= 0.297 af, Depth> 1.65"

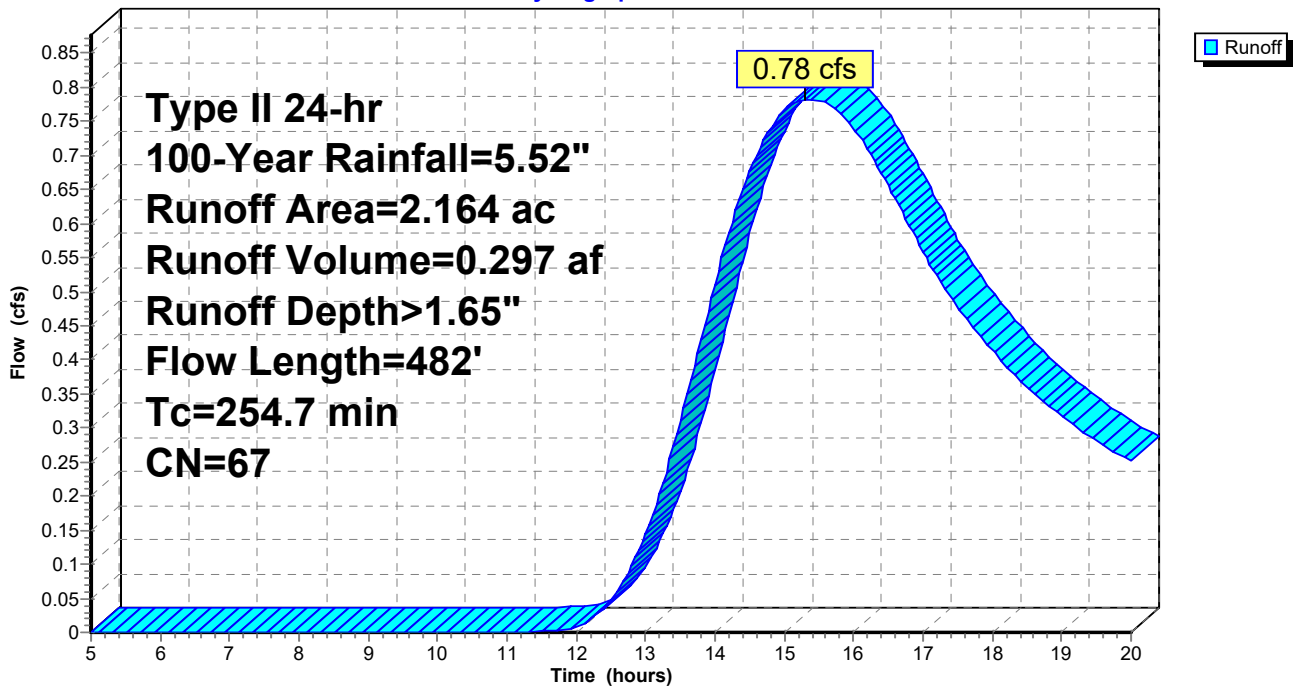
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-Year Rainfall=5.52"

Area (ac)	CN	Description
2.164	67	Brush, Poor, HSG B
2.164		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
253.1	170	0.0290	0.01		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 0.04"
1.5	282	0.2120	3.22		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.1	30	0.2330	3.38		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
254.7	482	Total			

Subcatchment 1S: pre developed

Hydrograph



Summary for Reach 2R: (new Reach)

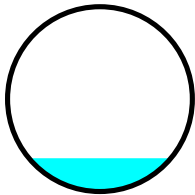
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 2.164 ac, 0.00% Impervious, Inflow Depth > 1.65" for 100-Year event
 Inflow = 0.78 cfs @ 15.30 hrs, Volume= 0.297 af
 Outflow = 0.78 cfs @ 15.35 hrs, Volume= 0.297 af, Atten= 0%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Max. Velocity= 3.66 fps, Min. Travel Time= 0.3 min
 Avg. Velocity = 2.66 fps, Avg. Travel Time= 0.4 min

Peak Storage= 15 cf @ 15.34 hrs
 Average Depth at Peak Storage= 0.27'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.23 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 70.0' Slope= 0.0114 '/'
 Inlet Invert= 853.80', Outlet Invert= 853.00'



Reach 2R: (new Reach)

Hydrograph

