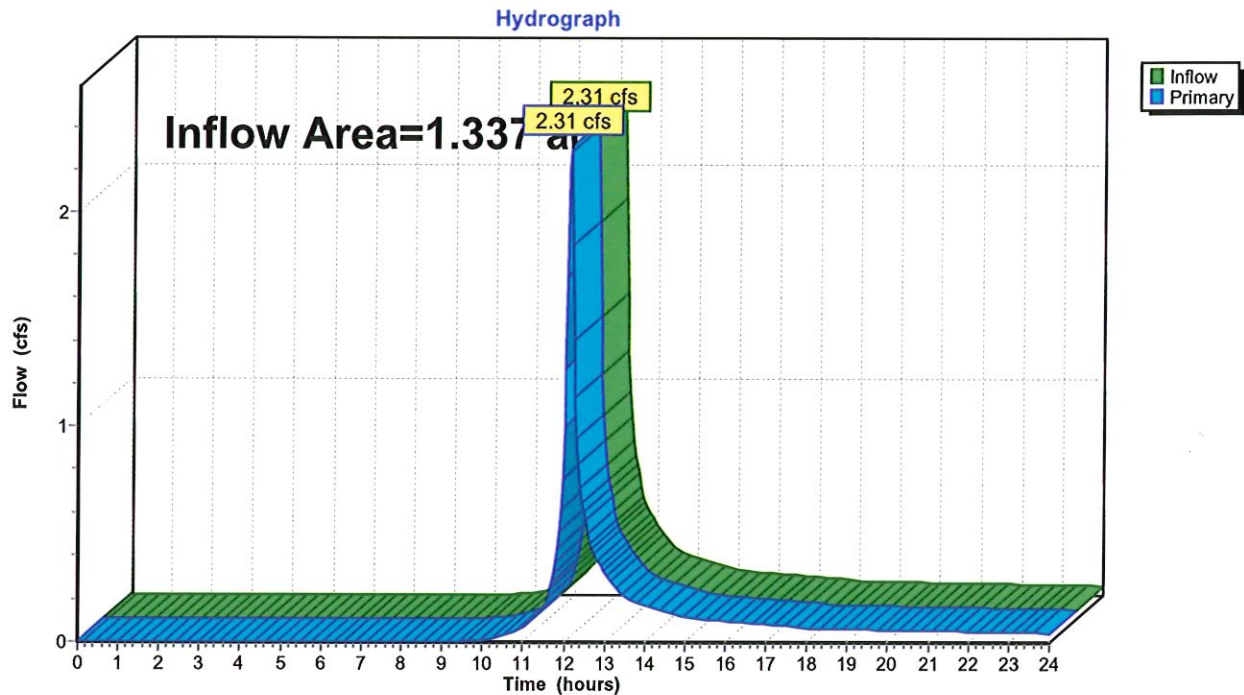


**Summary for Link 1L: Combined Hydrograph**

Inflow Area = 1.337 ac, 23.62% Impervious, Inflow Depth > 1.57" for 5 Year event  
Inflow = 2.31 cfs @ 12.15 hrs, Volume= 0.175 af  
Primary = 2.31 cfs @ 12.15 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

**Link 1L: Combined Hydrograph**

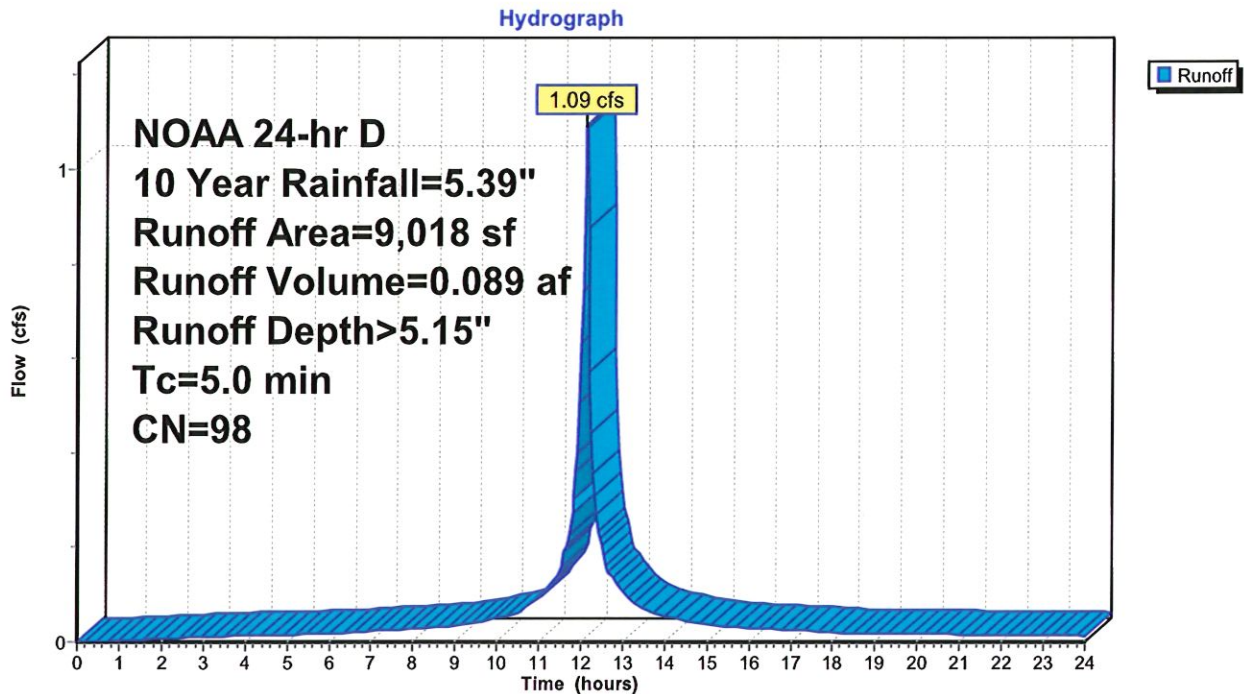
**Summary for Subcatchment 3S: Areas Routed to Retention**

Runoff = 1.09 cfs @ 12.11 hrs, Volume= 0.089 af, Depth> 5.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 NOAA 24-hr D 10 Year Rainfall=5.39"

Area (sf)	CN	Description
* 9,018	98	Driveway/Parking
9,018		100.00% Impervious Area

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

**Subcatchment 3S: Areas Routed to Retention**

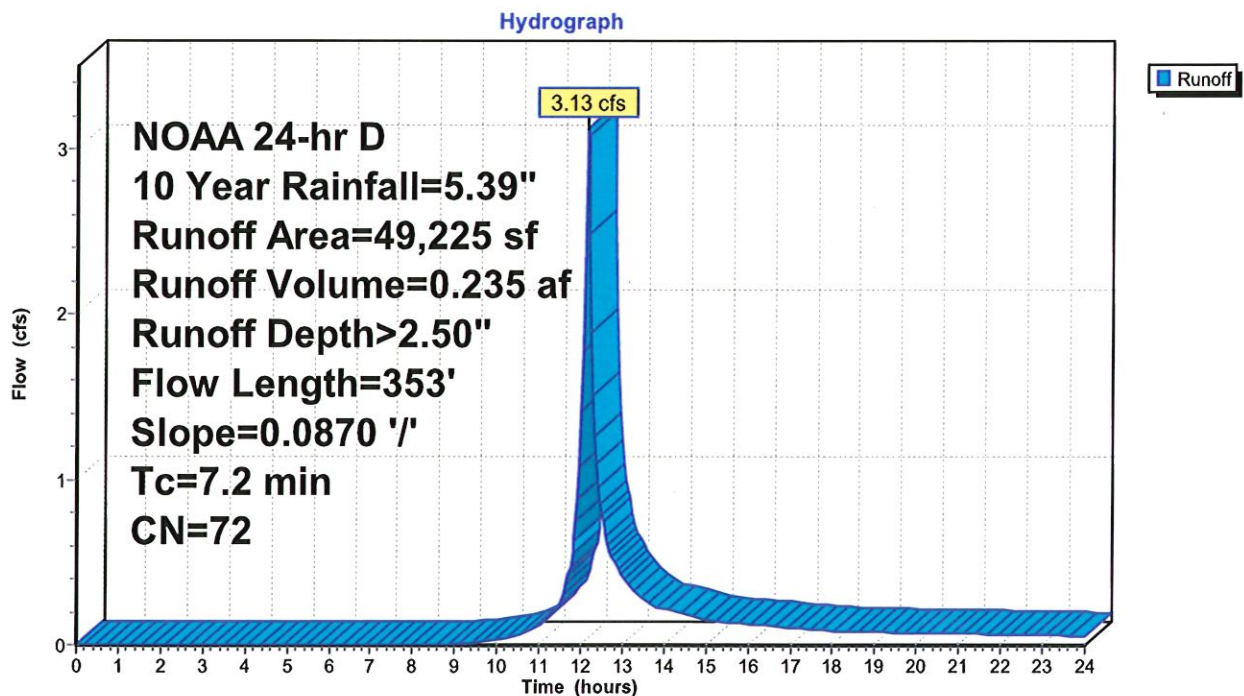
**Summary for Subcatchment 4S: Areas not Routed to Retention**

Runoff = 3.13 cfs @ 12.15 hrs, Volume= 0.235 af, Depth> 2.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 10 Year Rainfall=5.39"

Area (sf)	CN	Description
* 4,741	98	Building
44,484	69	50-75% Grass cover, Fair, HSG B
49,225	72	Weighted Average
44,484		90.37% Pervious Area
4,741		9.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 4S: Areas not Routed to Retention**



**Summary for Pond 1P: 48" Concrete Galleries**

Inflow Area = 0.207 ac, 100.00% Impervious, Inflow Depth > 5.15" for 10 Year event  
 Inflow = 1.09 cfs @ 12.11 hrs, Volume= 0.089 af  
 Outflow = 0.07 cfs @ 10.84 hrs, Volume= 0.089 af, Atten= 93%, Lag= 0.0 min  
 Discarded = 0.07 cfs @ 10.84 hrs, Volume= 0.089 af  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Peak Elev= 96.96' @ 13.43 hrs Surf.Area= 532 sf Storage= 1,446 cf

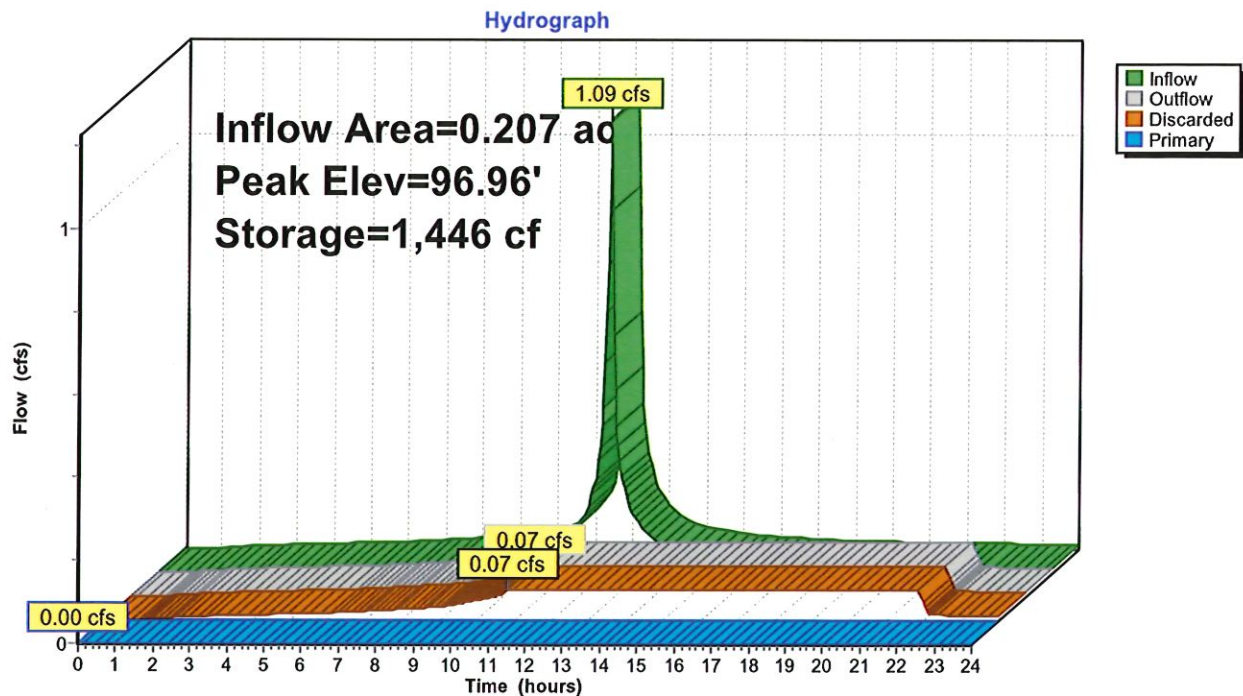
Plug-Flow detention time= 142.1 min calculated for 0.089 af (100% of inflow)  
 Center-of-Mass det. time= 141.6 min ( 888.1 - 746.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	93.90'	217 cf	<b>14.00'W x 38.00'L x 4.00'H Stone</b> 2,128 cf Overall - 1,585 cf Embedded = 543 cf x 40.0% Voids
#2	93.90'	1,585 cf	<b>12.00'W x 36.00'L x 3.67'H 48" Concrete Galleries</b> Inside #1
		1,802 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	97.90'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#2	Discarded	93.90'	<b>6.000 in/hr Exfiltration over Horizontal area</b>

**Discarded OutFlow** Max=0.07 cfs @ 10.84 hrs HW=93.94' (Free Discharge)  
 ↑2=Exfiltration (Exfiltration Controls 0.07 cfs)

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=93.90' (Free Discharge)  
 ↑1=Orifice/Grate ( Controls 0.00 cfs)

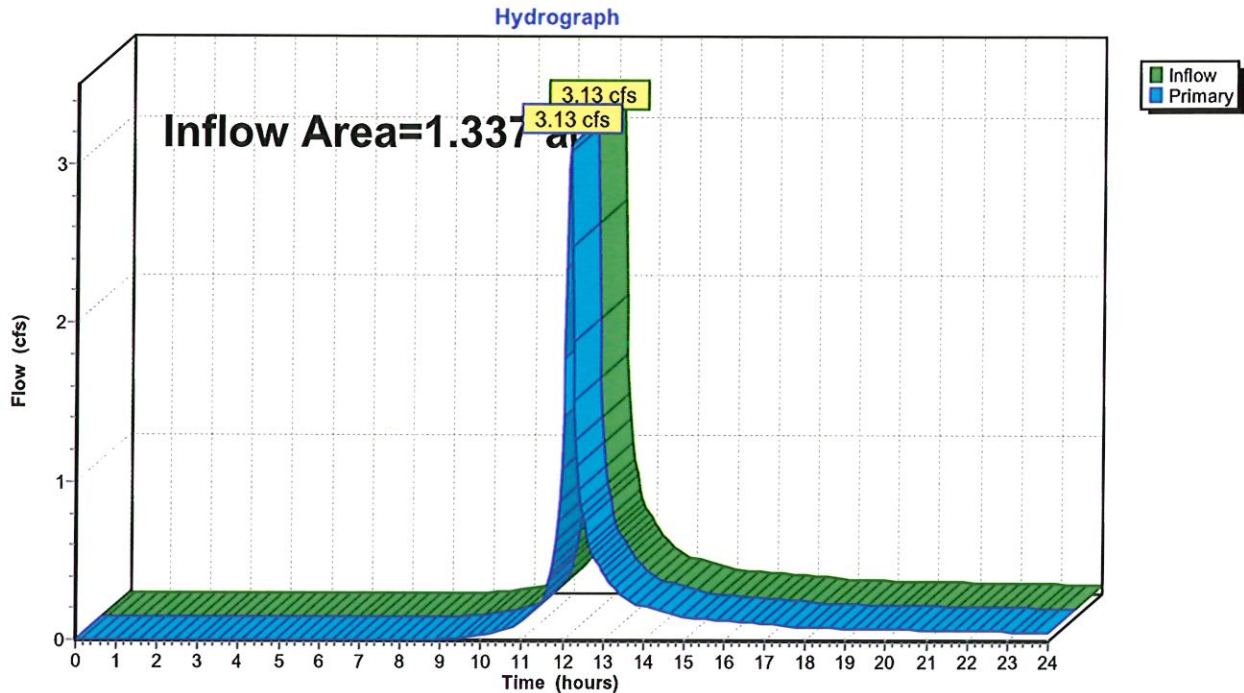
**Pond 1P: 48" Concrete Galleries**



**Summary for Link 1L: Combined Hydrograph**

Inflow Area = 1.337 ac, 23.62% Impervious, Inflow Depth > 2.11" for 10 Year event  
Inflow = 3.13 cfs @ 12.15 hrs, Volume= 0.235 af  
Primary = 3.13 cfs @ 12.15 hrs, Volume= 0.235 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

**Link 1L: Combined Hydrograph**

**Summary for Subcatchment 3S: Areas Routed to Retention**

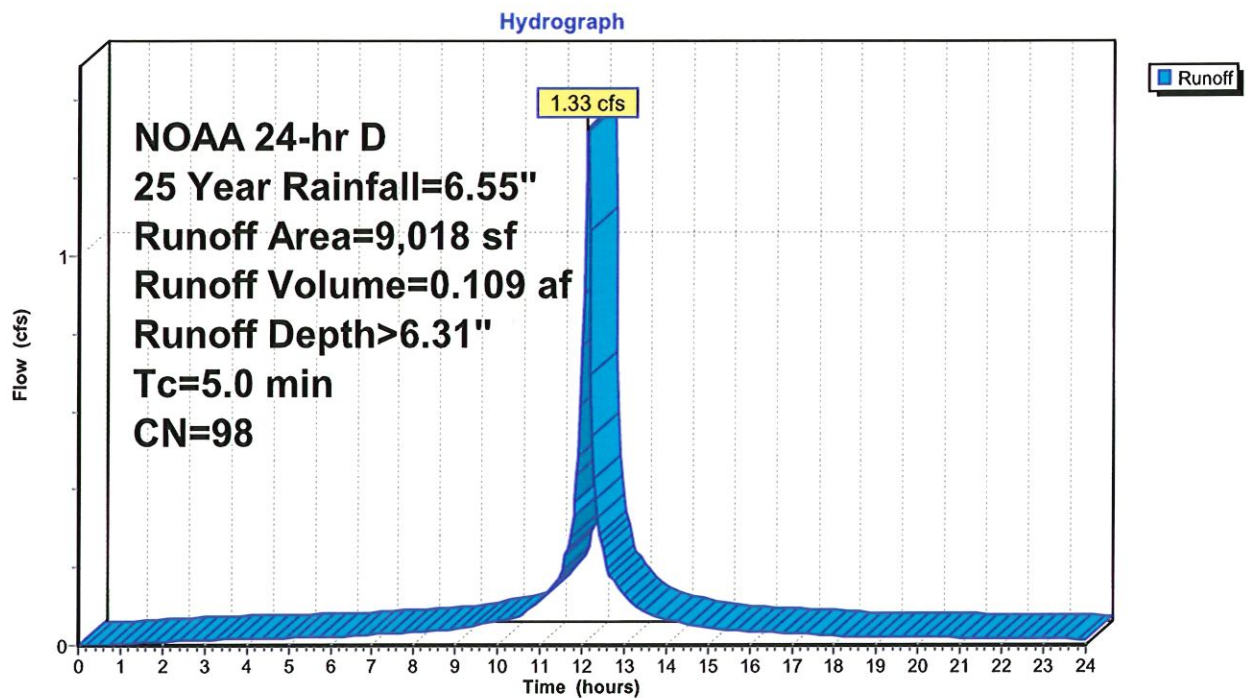
Runoff = 1.33 cfs @ 12.11 hrs, Volume= 0.109 af, Depth> 6.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

NOAA 24-hr D 25 Year Rainfall=6.55"

Area (sf)	CN	Description
* 9,018	98	Driveway/Parking
9,018		100.00% Impervious Area

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

**Subcatchment 3S: Areas Routed to Retention**

**Summary for Subcatchment 4S: Areas not Routed to Retention**

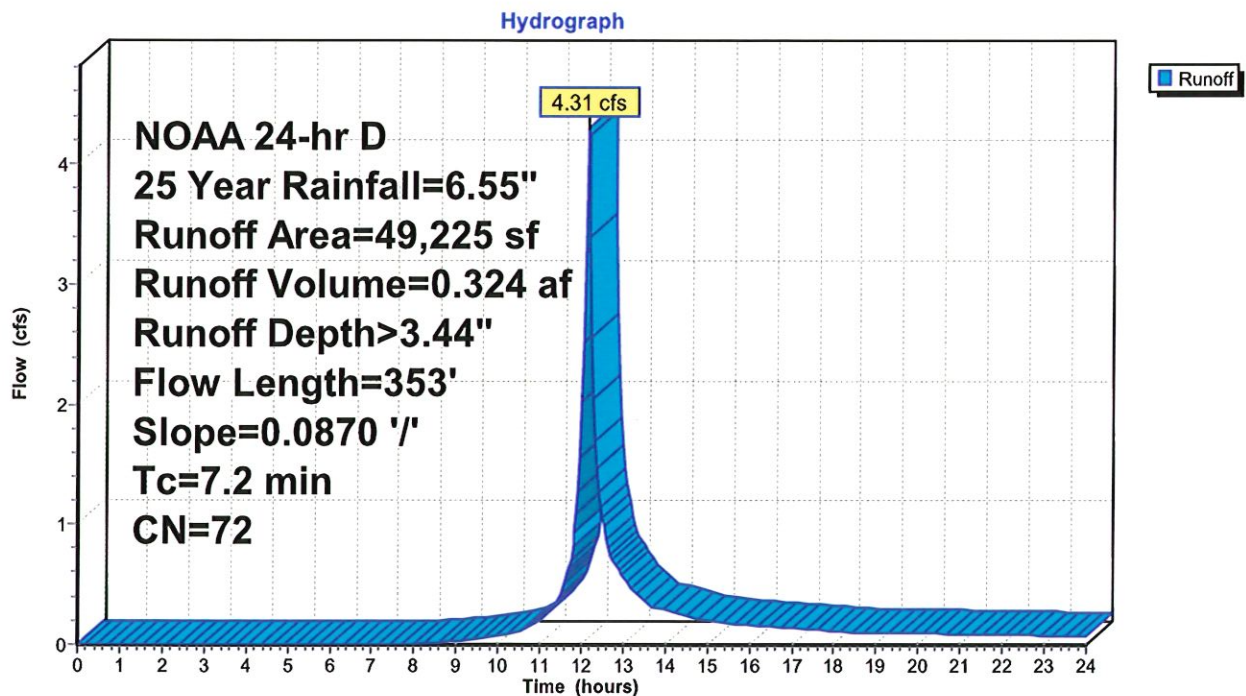
Runoff = 4.31 cfs @ 12.14 hrs, Volume= 0.324 af, Depth> 3.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 25 Year Rainfall=6.55"

Area (sf)	CN	Description
* 4,741	98	Building
44,484	69	50-75% Grass cover, Fair, HSG B
49,225	72	Weighted Average
44,484		90.37% Pervious Area
4,741		9.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		Shallow Concentrated Flow, Shallow Concentrated Flow Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 4S: Areas not Routed to Retention**



### Summary for Pond 1P: 48" Concrete Galleries

Inflow Area = 0.207 ac, 100.00% Impervious, Inflow Depth > 6.31" for 25 Year event  
 Inflow = 1.33 cfs @ 12.11 hrs, Volume= 0.109 af  
 Outflow = 0.23 cfs @ 12.80 hrs, Volume= 0.106 af, Atten= 83%, Lag= 41.2 min  
 Discarded = 0.07 cfs @ 10.60 hrs, Volume= 0.103 af  
 Primary = 0.16 cfs @ 12.80 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Peak Elev= 98.00' @ 12.80 hrs Surf.Area= 532 sf Storage= 1,802 cf

Plug-Flow detention time= 185.7 min calculated for 0.106 af (97% of inflow)  
 Center-of-Mass det. time= 168.8 min ( 912.2 - 743.5 )

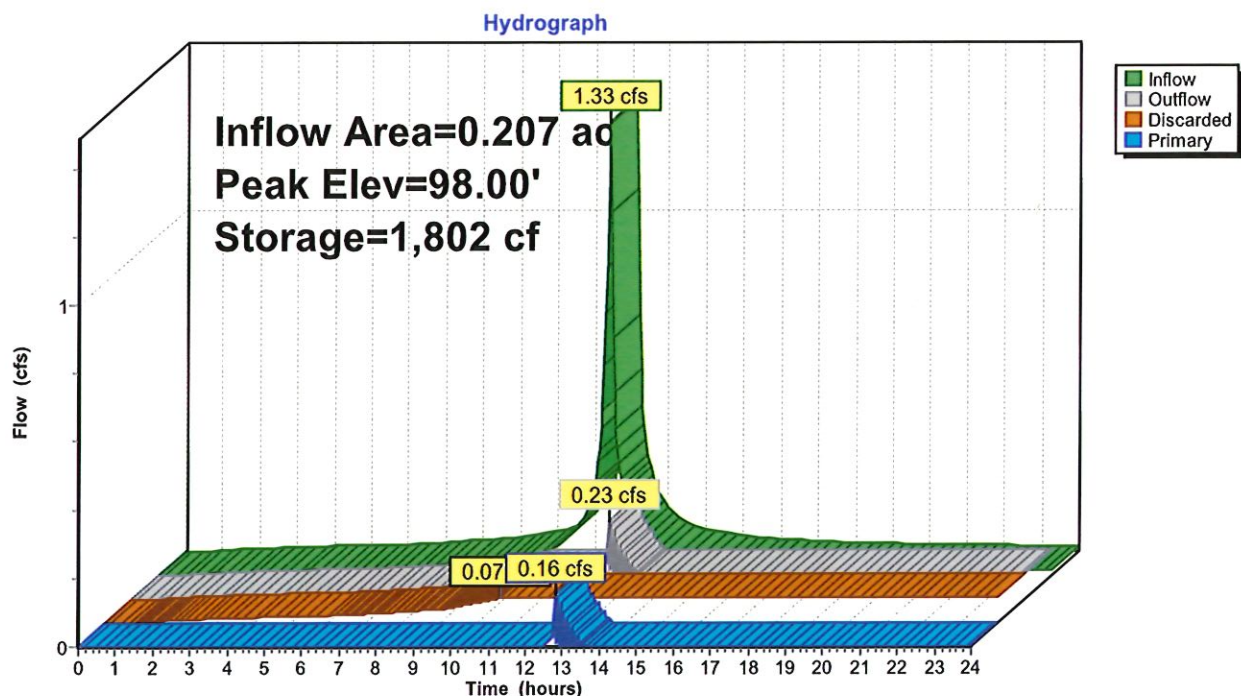
Volume	Invert	Avail.Storage	Storage Description
#1	93.90'	217 cf	14.00'W x 38.00'L x 4.00'H Stone 2,128 cf Overall - 1,585 cf Embedded = 543 cf x 40.0% Voids
#2	93.90'	1,585 cf	12.00'W x 36.00'L x 3.67'H 48" Concrete Galleries Inside #1
		1,802 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	97.90'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Discarded	93.90'	6.000 in/hr Exfiltration over Horizontal area

Discarded OutFlow Max=0.07 cfs @ 10.60 hrs HW=93.94' (Free Discharge)  
 ↳2=Exfiltration (Exfiltration Controls 0.07 cfs)

Primary OutFlow Max=0.15 cfs @ 12.80 hrs HW=98.00' (Free Discharge)  
 ↳1=Orifice/Grate (Weir Controls 0.15 cfs @ 1.01 fps)

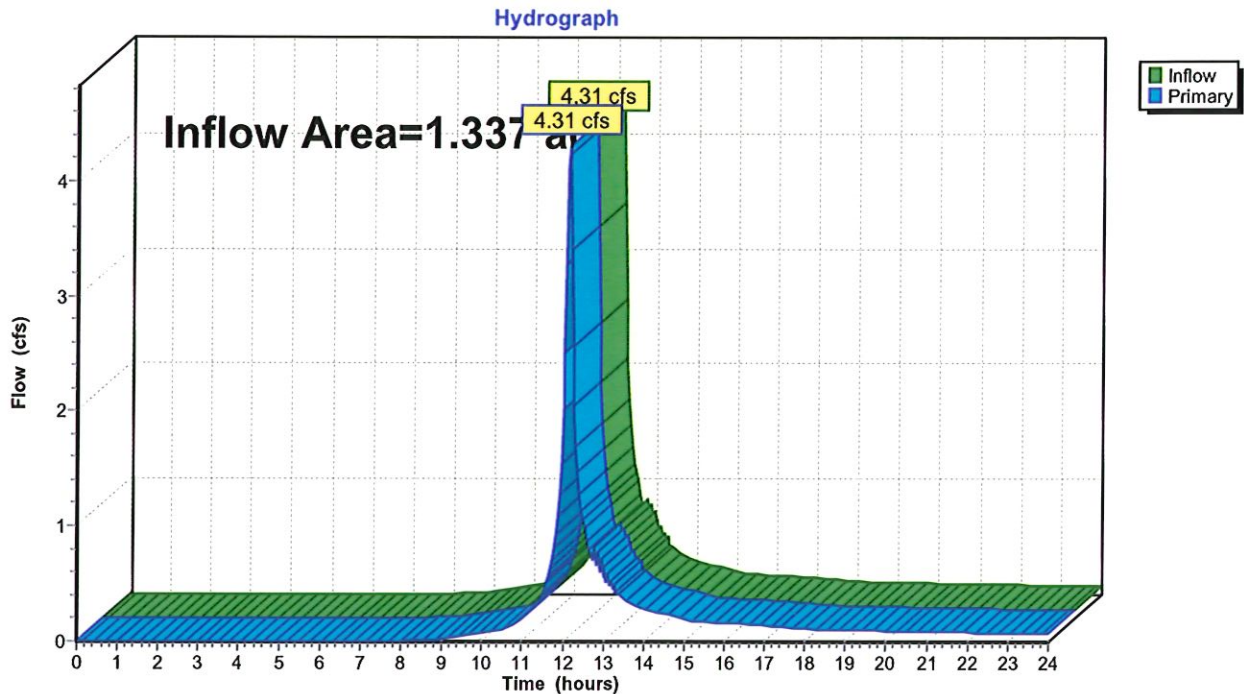
### Pond 1P: 48" Concrete Galleries



**Summary for Link 1L: Combined Hydrograph**

Inflow Area = 1.337 ac, 23.62% Impervious, Inflow Depth > 2.94" for 25 Year event  
Inflow = 4.31 cfs @ 12.14 hrs, Volume= 0.327 af  
Primary = 4.31 cfs @ 12.14 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

**Link 1L: Combined Hydrograph**

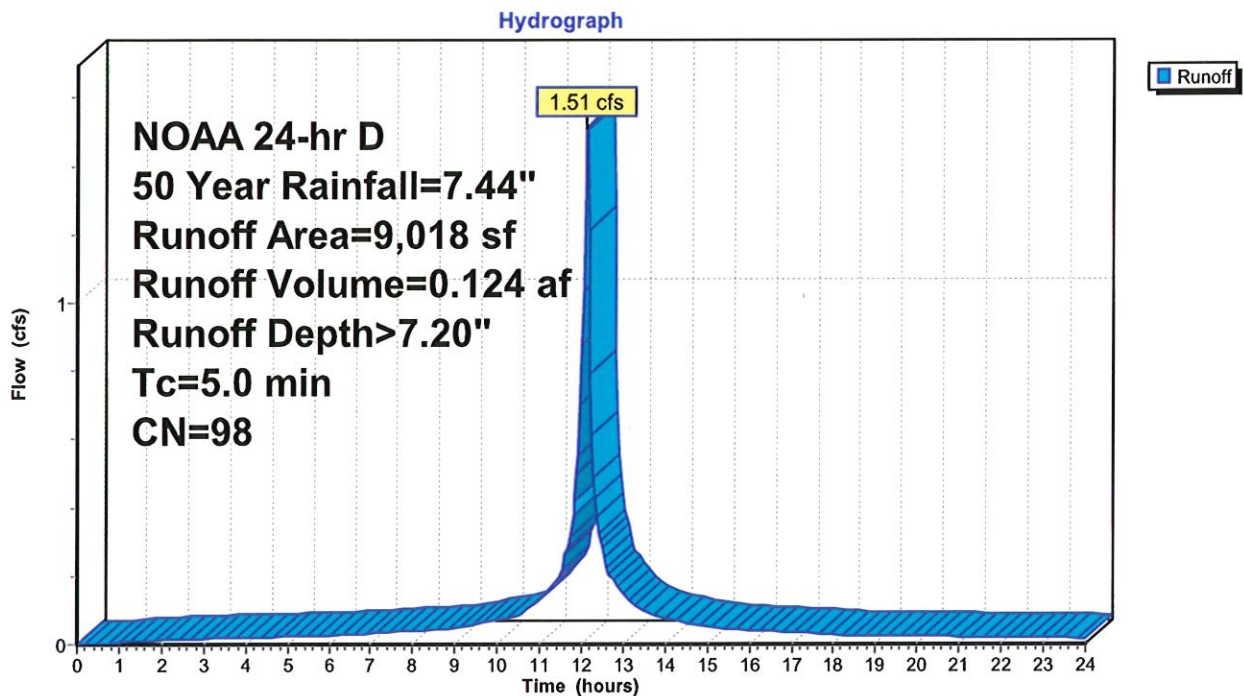
**Summary for Subcatchment 3S: Areas Routed to Retention**

Runoff = 1.51 cfs @ 12.11 hrs, Volume= 0.124 af, Depth> 7.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 50 Year Rainfall=7.44"

Area (sf)	CN	Description
* 9,018	98	Driveway/Parking
9,018		100.00% Impervious Area

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

**Subcatchment 3S: Areas Routed to Retention**



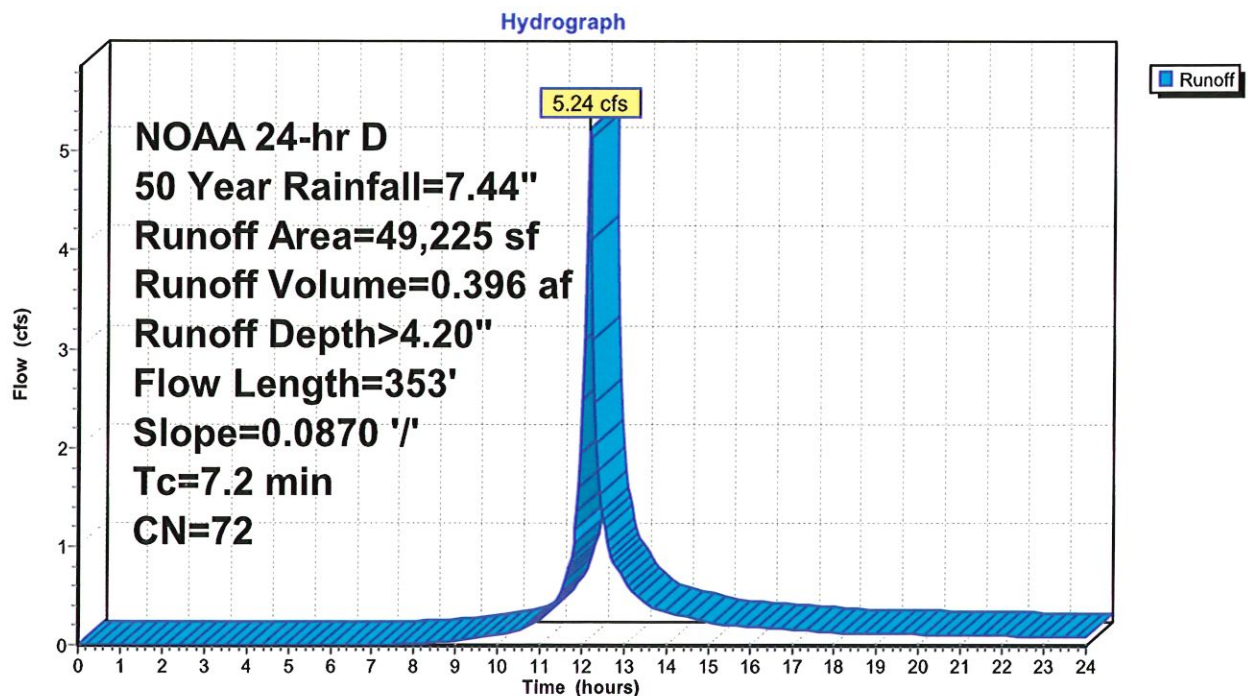
**Summary for Subcatchment 4S: Areas not Routed to Retention**

Runoff = 5.24 cfs @ 12.14 hrs, Volume= 0.396 af, Depth> 4.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 50 Year Rainfall=7.44"

Area (sf)	CN	Description
* 4,741	98	Building
44,484	69	50-75% Grass cover, Fair, HSG B
49,225	72	Weighted Average
44,484		90.37% Pervious Area
4,741		9.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 4S: Areas not Routed to Retention**

### Summary for Pond 1P: 48" Concrete Galleries

Inflow Area = 0.207 ac, 100.00% Impervious, Inflow Depth > 7.20" for 50 Year event  
 Inflow = 1.51 cfs @ 12.11 hrs, Volume= 0.124 af  
 Outflow = 0.42 cfs @ 12.35 hrs, Volume= 0.118 af, Atten= 72%, Lag= 13.9 min  
 Discarded = 0.07 cfs @ 10.24 hrs, Volume= 0.106 af  
 Primary = 0.35 cfs @ 12.35 hrs, Volume= 0.012 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Peak Elev= 98.07' @ 12.35 hrs Surf.Area= 532 sf Storage= 1,802 cf

Plug-Flow detention time= 174.9 min calculated for 0.118 af (95% of inflow)  
 Center-of-Mass det. time= 145.1 min ( 886.7 - 741.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	93.90'	217 cf	14.00'W x 38.00'L x 4.00'H Stone 2,128 cf Overall - 1,585 cf Embedded = 543 cf x 40.0% Voids
#2	93.90'	1,585 cf	12.00'W x 36.00'L x 3.67'H 48" Concrete Galleries Inside #1
		1,802 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	97.90'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Discarded	93.90'	6.000 in/hr Exfiltration over Horizontal area

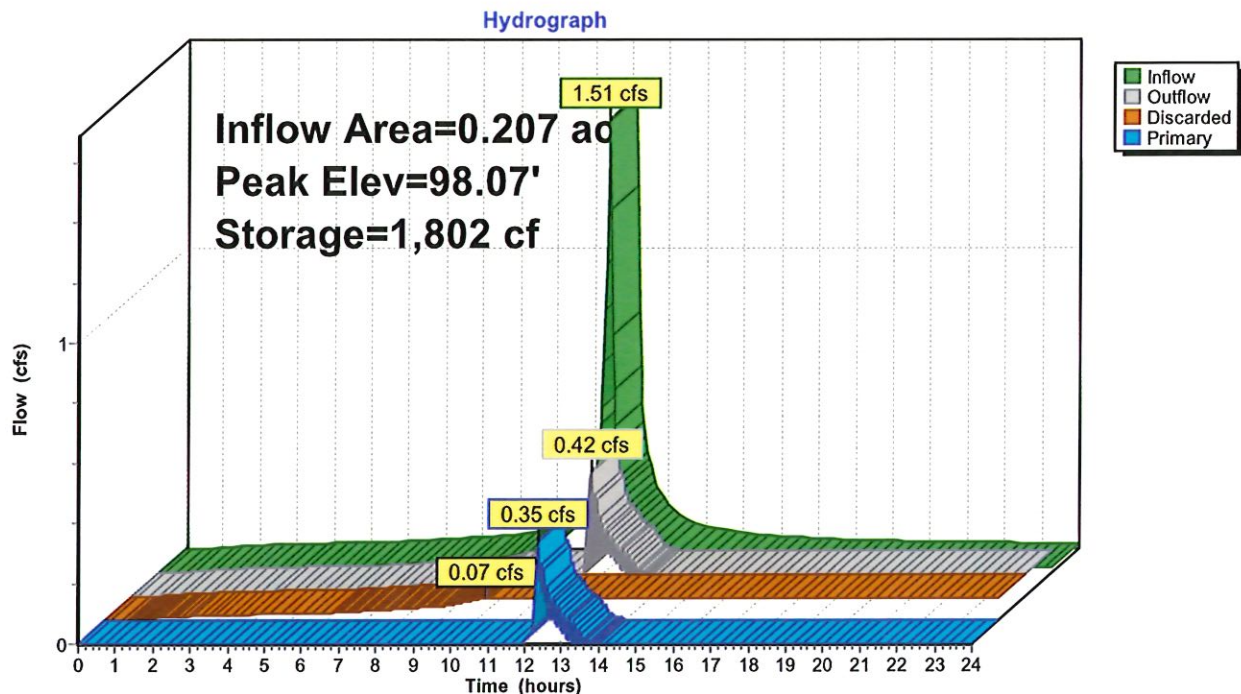
Discarded OutFlow Max=0.07 cfs @ 10.24 hrs HW=93.94' (Free Discharge)

↑2=Exfiltration (Exfiltration Controls 0.07 cfs)

Primary OutFlow Max=0.33 cfs @ 12.35 hrs HW=98.06' (Free Discharge)

↑1=Orifice/Grate (Weir Controls 0.33 cfs @ 1.31 fps)

### Pond 1P: 48" Concrete Galleries

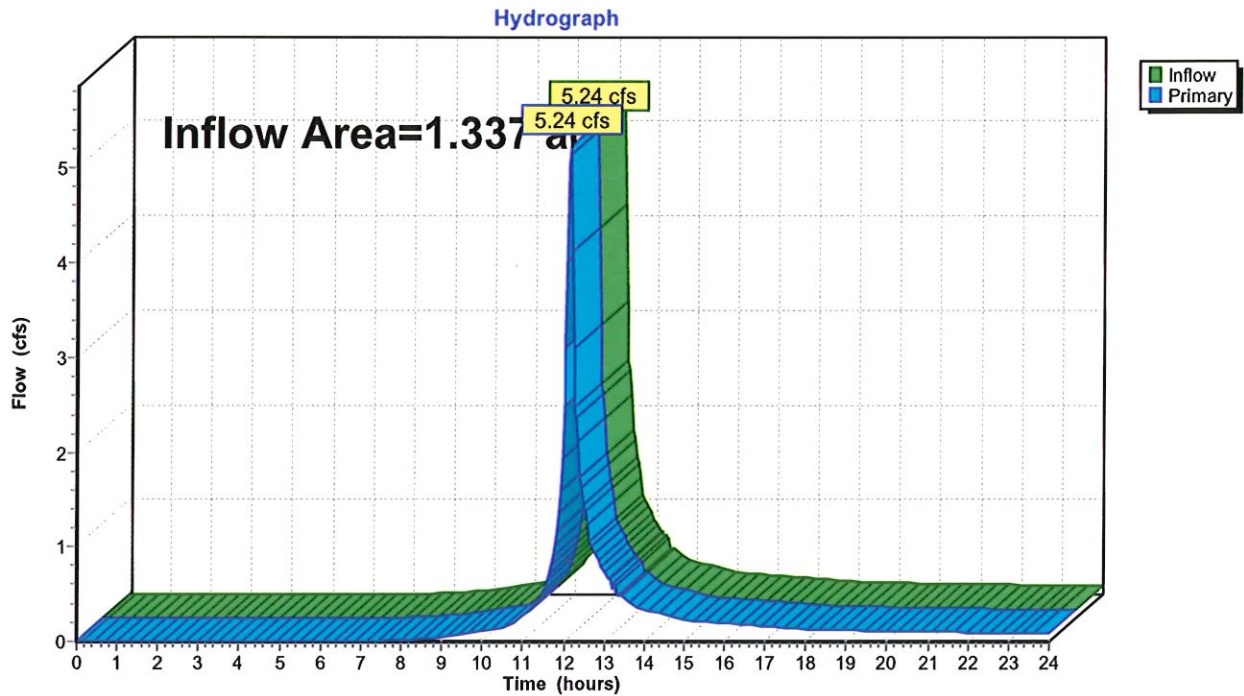




**Summary for Link 1L: Combined Hydrograph**

Inflow Area = 1.337 ac, 23.62% Impervious, Inflow Depth > 3.66" for 50 Year event  
Inflow = 5.24 cfs @ 12.14 hrs, Volume= 0.407 af  
Primary = 5.24 cfs @ 12.14 hrs, Volume= 0.407 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

**Link 1L: Combined Hydrograph**



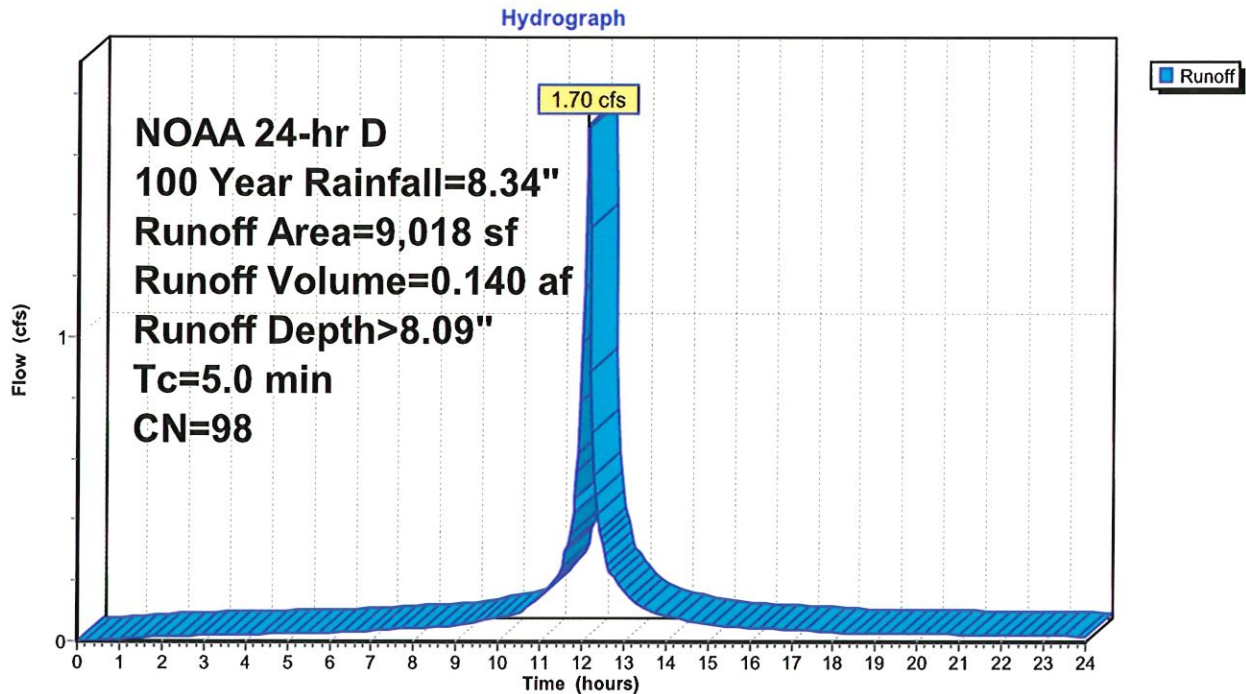
**Summary for Subcatchment 3S: Areas Routed to Retention**

Runoff = 1.70 cfs @ 12.11 hrs, Volume= 0.140 af, Depth> 8.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 NOAA 24-hr D 100 Year Rainfall=8.34"

Area (sf)	CN	Description
* 9,018	98	Driveway/Parking
9,018		100.00% Impervious Area

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

**Subcatchment 3S: Areas Routed to Retention**

**Summary for Subcatchment 4S: Areas not Routed to Retention**

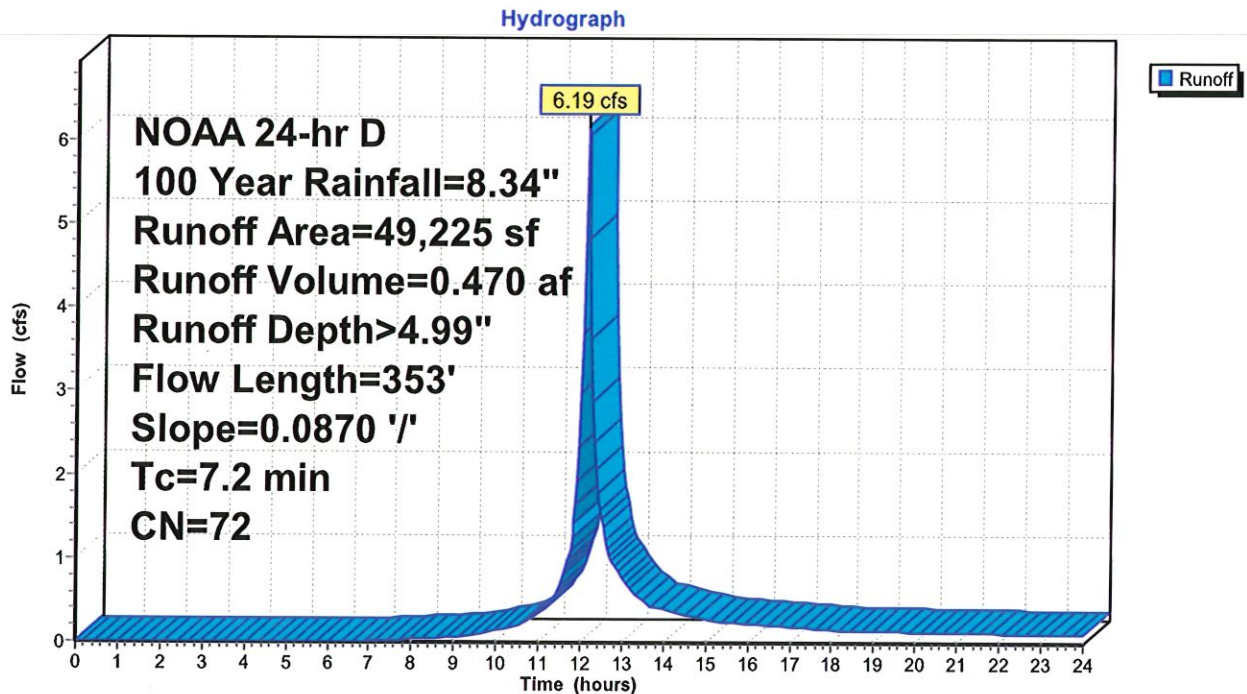
Runoff = 6.19 cfs @ 12.14 hrs, Volume= 0.470 af, Depth> 4.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 100 Year Rainfall=8.34"

	Area (sf)	CN	Description
*	4,741	98	Building
	44,484	69	50-75% Grass cover, Fair, HSG B
	49,225	72	Weighted Average
	44,484		90.37% Pervious Area
	4,741		9.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		Sheet Flow, Sheet Flow
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		Shallow Concentrated Flow, Shallow Concentrated Flow
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 4S: Areas not Routed to Retention**



### Summary for Pond 1P: 48" Concrete Galleries

Inflow Area = 0.207 ac, 100.00% Impervious, Inflow Depth > 8.09" for 100 Year event  
 Inflow = 1.70 cfs @ 12.11 hrs, Volume= 0.140 af  
 Outflow = 1.14 cfs @ 12.20 hrs, Volume= 0.131 af, Atten= 33%, Lag= 5.4 min  
 Discarded = 0.07 cfs @ 9.88 hrs, Volume= 0.109 af  
 Primary = 1.06 cfs @ 12.20 hrs, Volume= 0.021 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Peak Elev= 99.15' @ 12.20 hrs Surf.Area= 532 sf Storage= 1,802 cf

Plug-Flow detention time= 163.0 min calculated for 0.131 af (94% of inflow)  
 Center-of-Mass det. time= 125.0 min ( 865.1 - 740.1 )

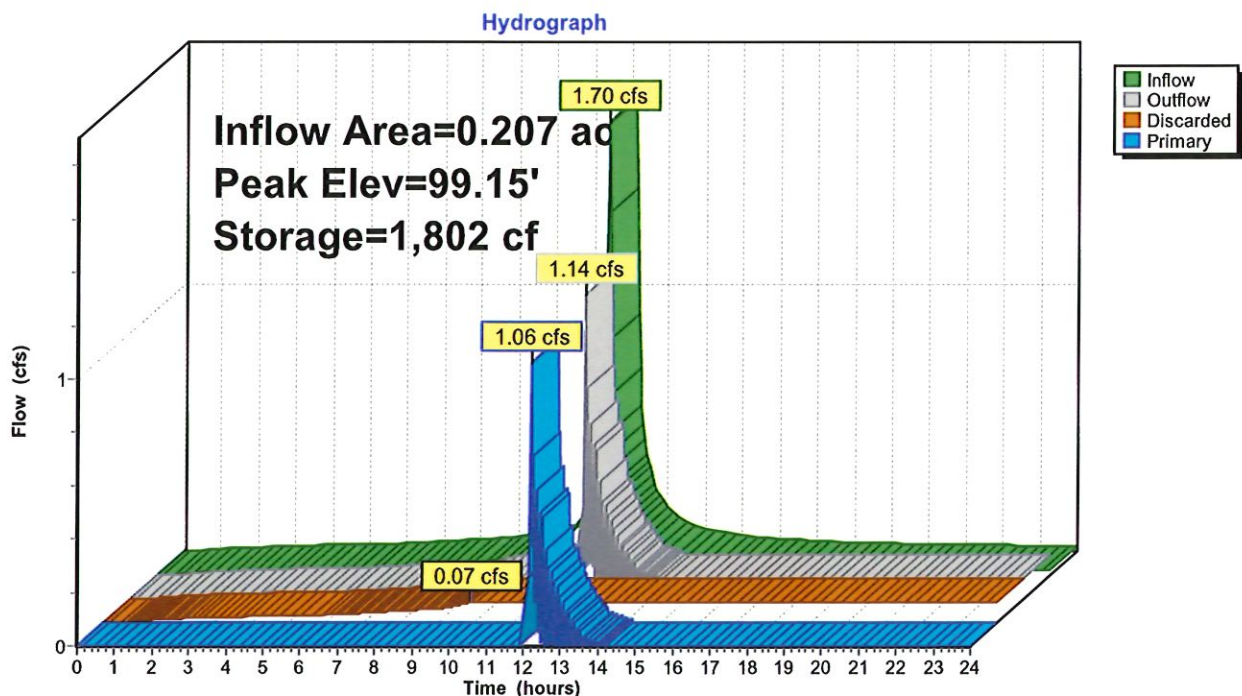
Volume	Invert	Avail.Storage	Storage Description
#1	93.90'	217 cf	<b>14.00'W x 38.00'L x 4.00'H Stone</b> 2,128 cf Overall - 1,585 cf Embedded = 543 cf x 40.0% Voids
#2	93.90'	1,585 cf	<b>12.00'W x 36.00'L x 3.67'H 48" Concrete Galleries</b> Inside #1
		1,802 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	97.90'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#2	Discarded	93.90'	<b>6.000 in/hr Exfiltration over Horizontal area</b>

**Discarded OutFlow** Max=0.07 cfs @ 9.88 hrs HW=93.94' (Free Discharge)  
 ↑2=Exfiltration (Exfiltration Controls 0.07 cfs)

**Primary OutFlow** Max=1.00 cfs @ 12.20 hrs HW=99.03' (Free Discharge)  
 ↑1=Orifice/Grate (Orifice Controls 1.00 cfs @ 5.11 fps)

### Pond 1P: 48" Concrete Galleries

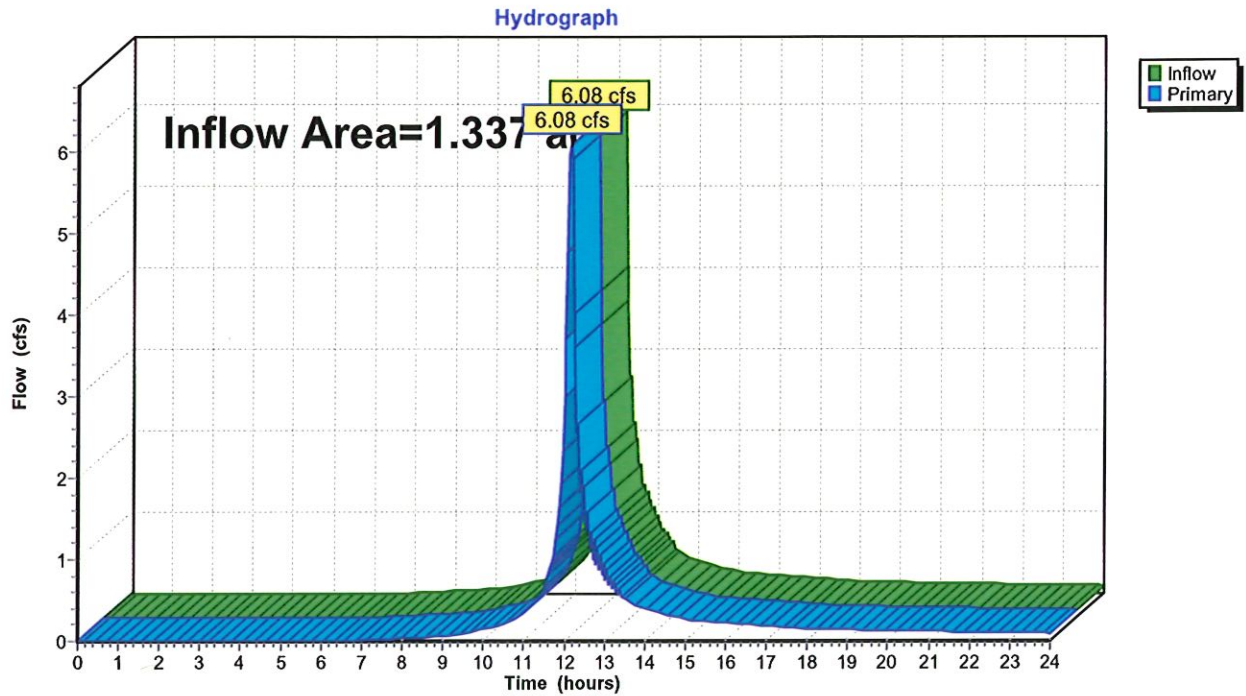




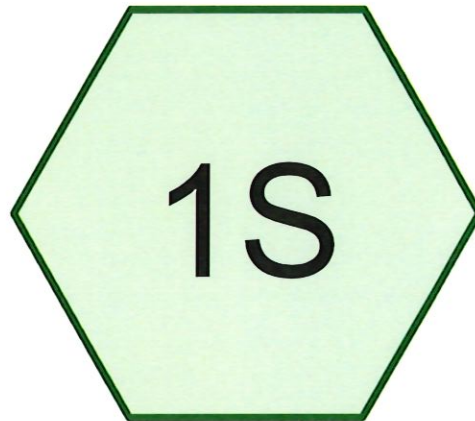
**Summary for Link 1L: Combined Hydrograph**

Inflow Area = 1.337 ac, 23.62% Impervious, Inflow Depth > 4.41" for 100 Year event  
Inflow = 6.08 cfs @ 12.16 hrs, Volume= 0.491 af  
Primary = 6.08 cfs @ 12.16 hrs, Volume= 0.491 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

**Link 1L: Combined Hydrograph**

**APPENDIX "D"**  
**HYDROCAD ANALYSIS**  
**PHASE 2**



# Existing Conditions





**Summary for Subcatchment 1S: Existing Conditions**

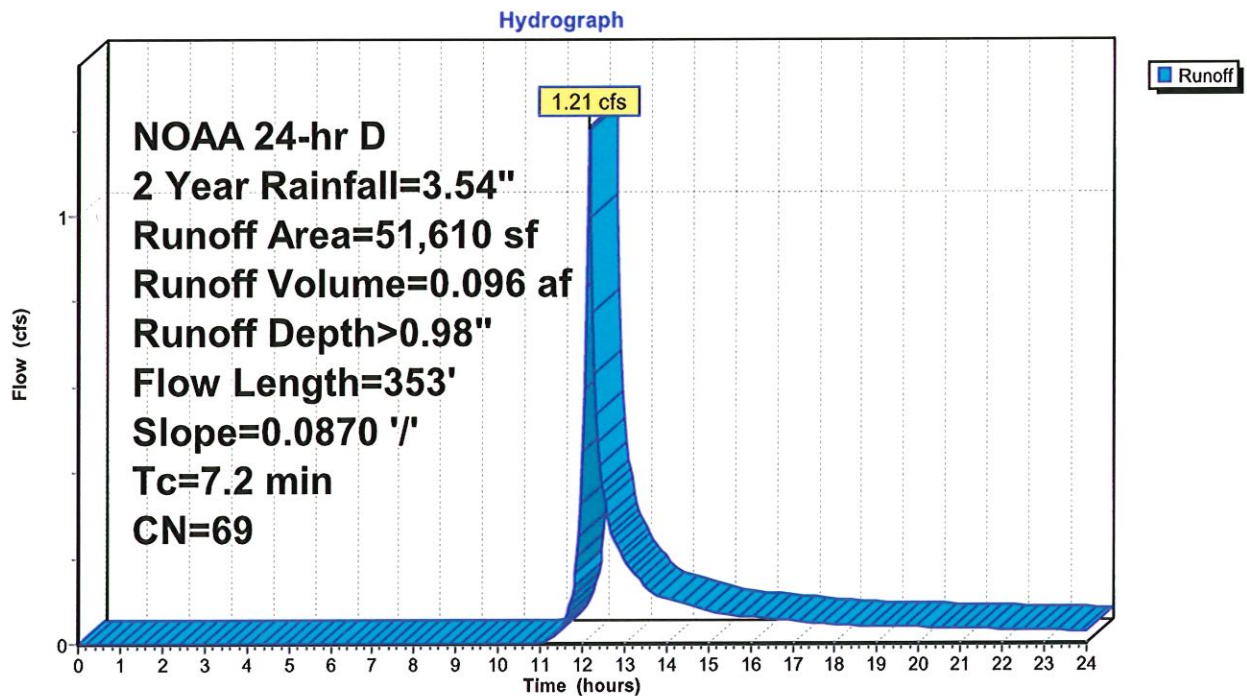
Runoff = 1.21 cfs @ 12.15 hrs, Volume= 0.096 af, Depth> 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 2 Year Rainfall=3.54"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b>
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b>
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**

**Summary for Subcatchment 1S: Existing Conditions**

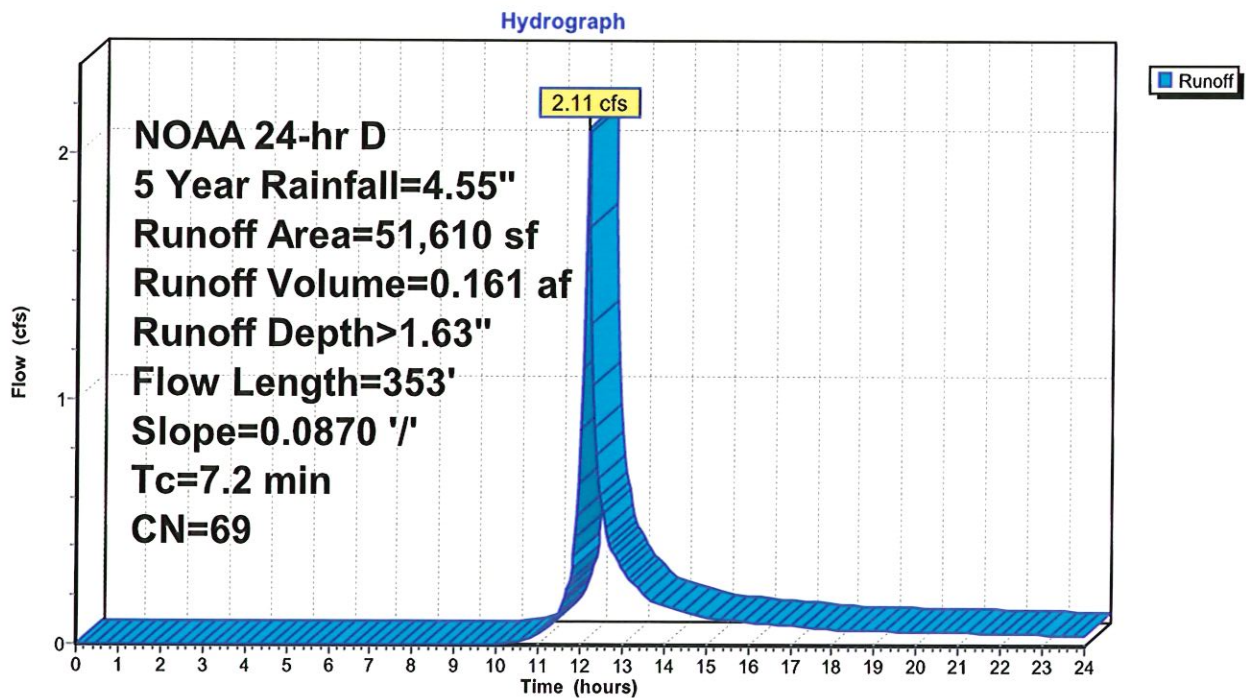
Runoff = 2.11 cfs @ 12.15 hrs, Volume= 0.161 af, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 5 Year Rainfall=4.55"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b>
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b>
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**

**Summary for Subcatchment 1S: Existing Conditions**

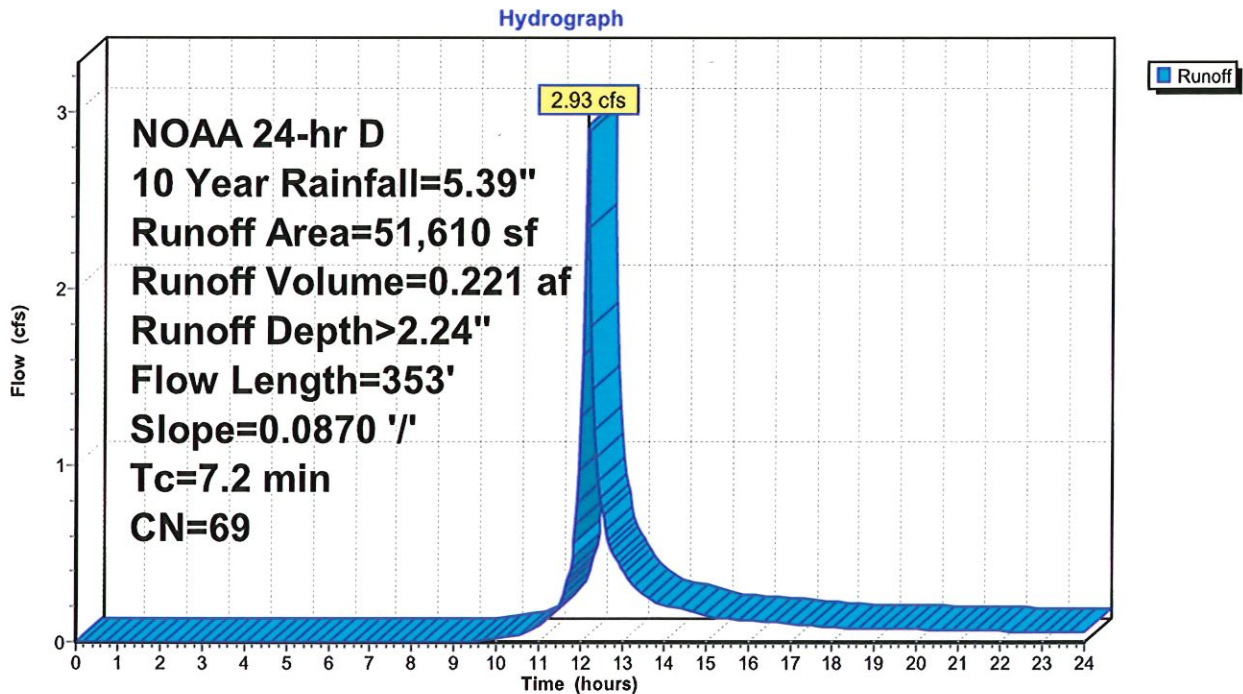
Runoff = 2.93 cfs @ 12.15 hrs, Volume= 0.221 af, Depth> 2.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 10 Year Rainfall=5.39"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b>
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b>
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**



**Summary for Subcatchment 1S: Existing Conditions**

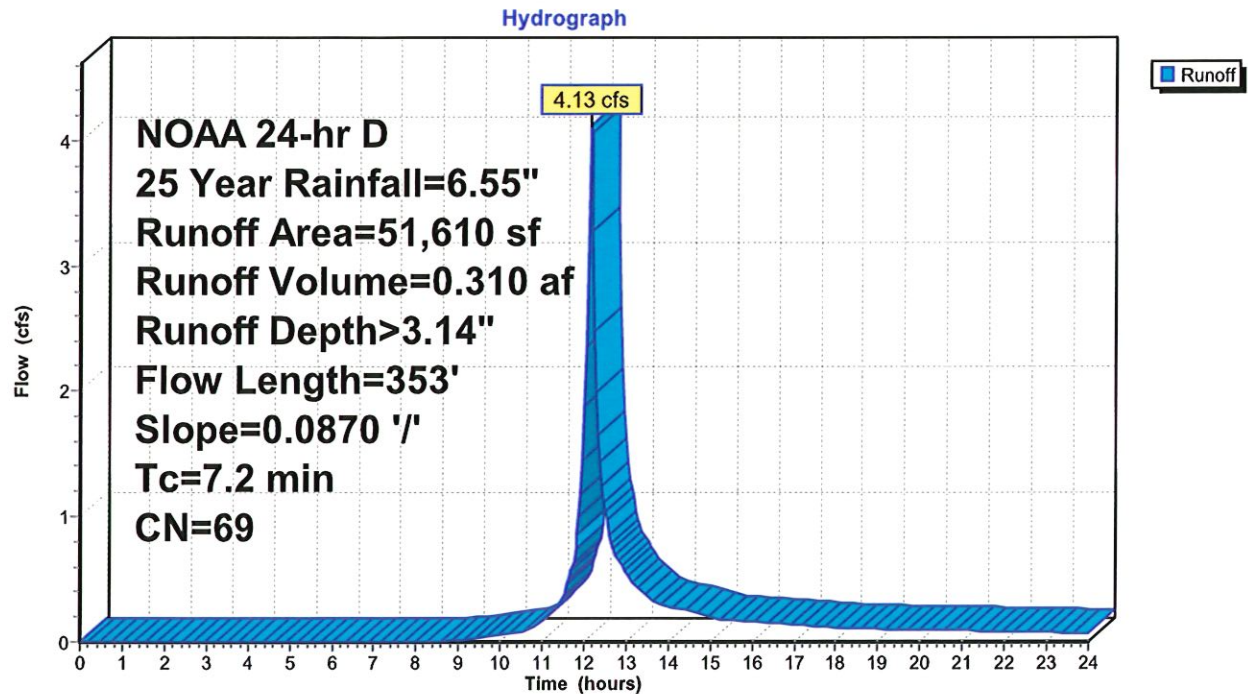
Runoff = 4.13 cfs @ 12.15 hrs, Volume= 0.310 af, Depth> 3.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 25 Year Rainfall=6.55"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**

**Summary for Subcatchment 1S: Existing Conditions**

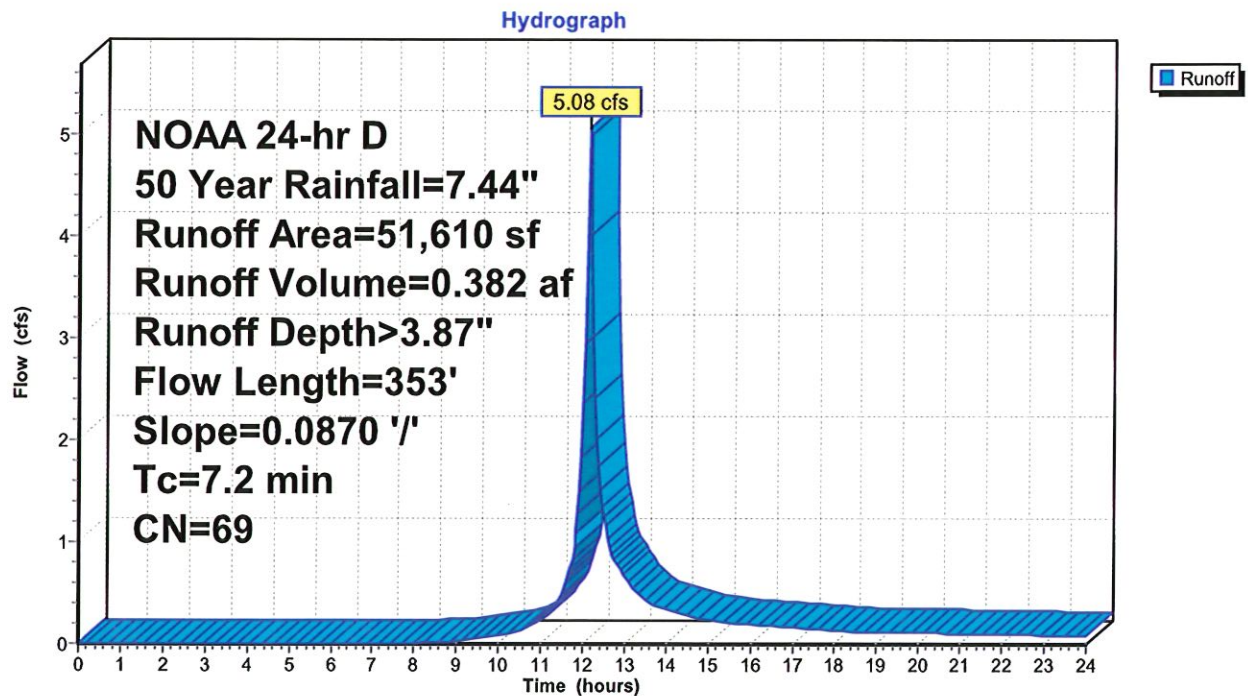
Runoff = 5.08 cfs @ 12.14 hrs, Volume= 0.382 af, Depth> 3.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 50 Year Rainfall=7.44"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		Shallow Concentrated Flow, Shallow Concentrated Flow Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**

**Summary for Subcatchment 1S: Existing Conditions**

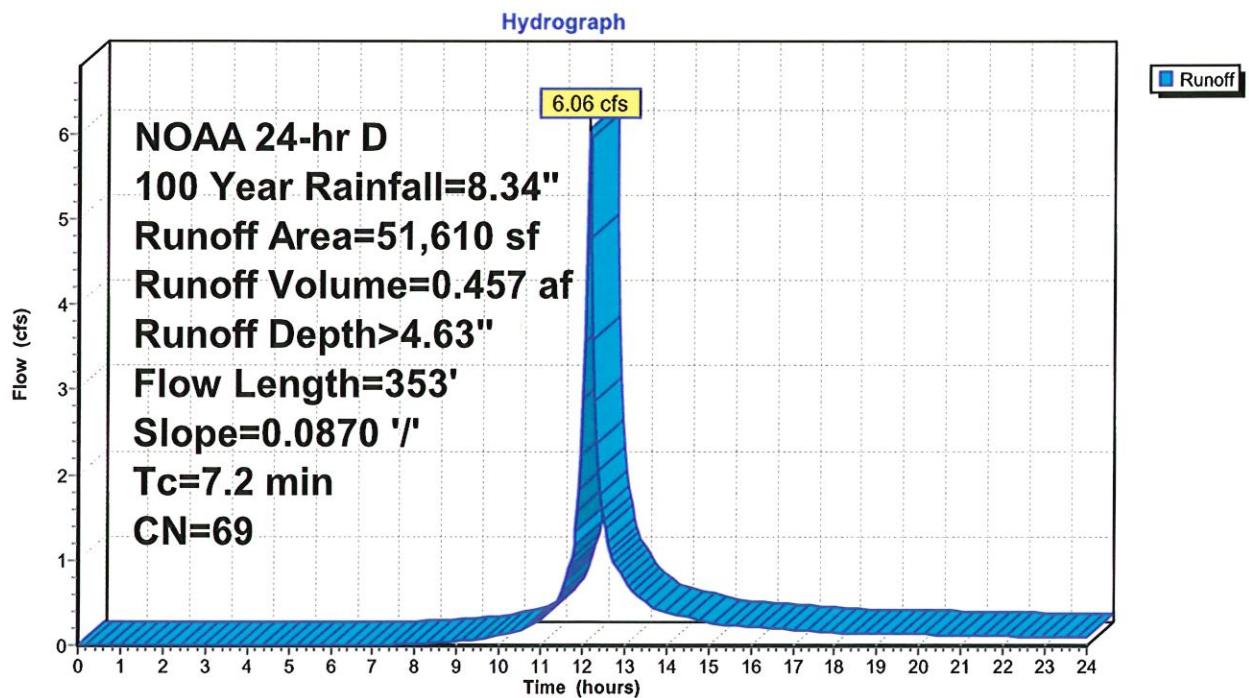
Runoff = 6.06 cfs @ 12.14 hrs, Volume= 0.457 af, Depth> 4.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 100 Year Rainfall=8.34"

Area (sf)	CN	Description
51,610	69	50-75% Grass cover, Fair, HSG B
51,610		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b>
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b>
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 1S: Existing Conditions**





# Proposed Conditions



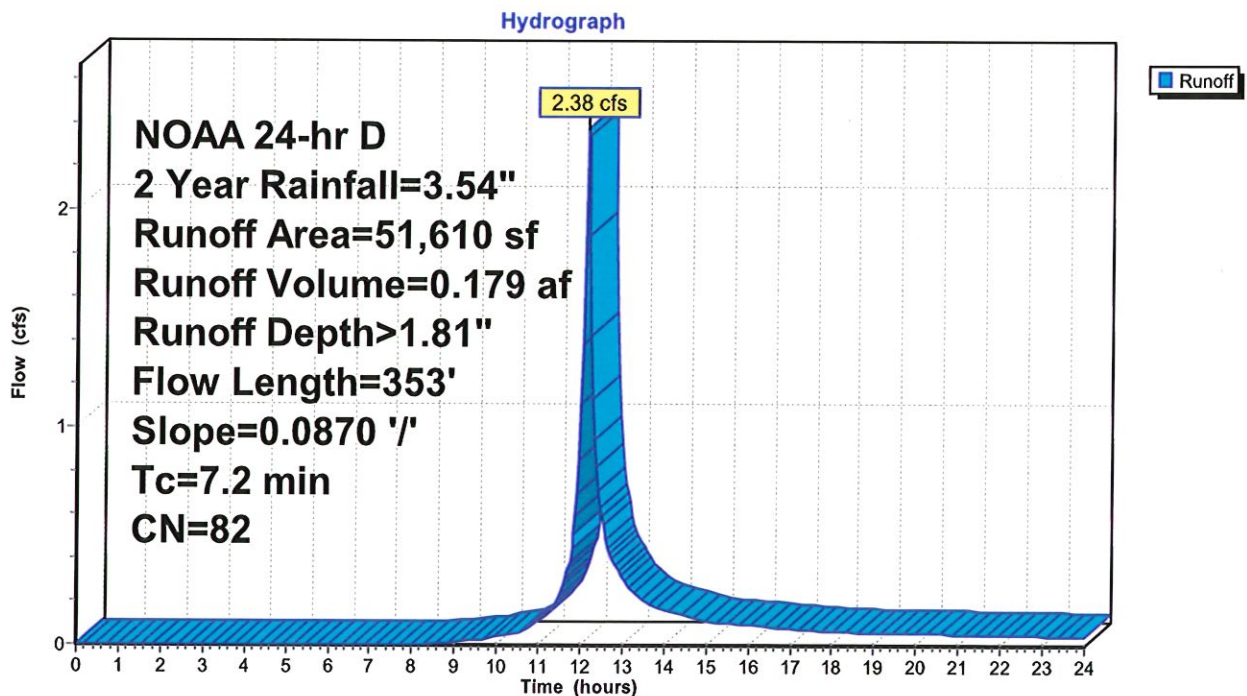
**Summary for Subcatchment 2S: Proposed Conditions**

Runoff = 2.38 cfs @ 12.14 hrs, Volume= 0.179 af, Depth> 1.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 2 Year Rainfall=3.54"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**

**Summary for Subcatchment 2S: Proposed Conditions**

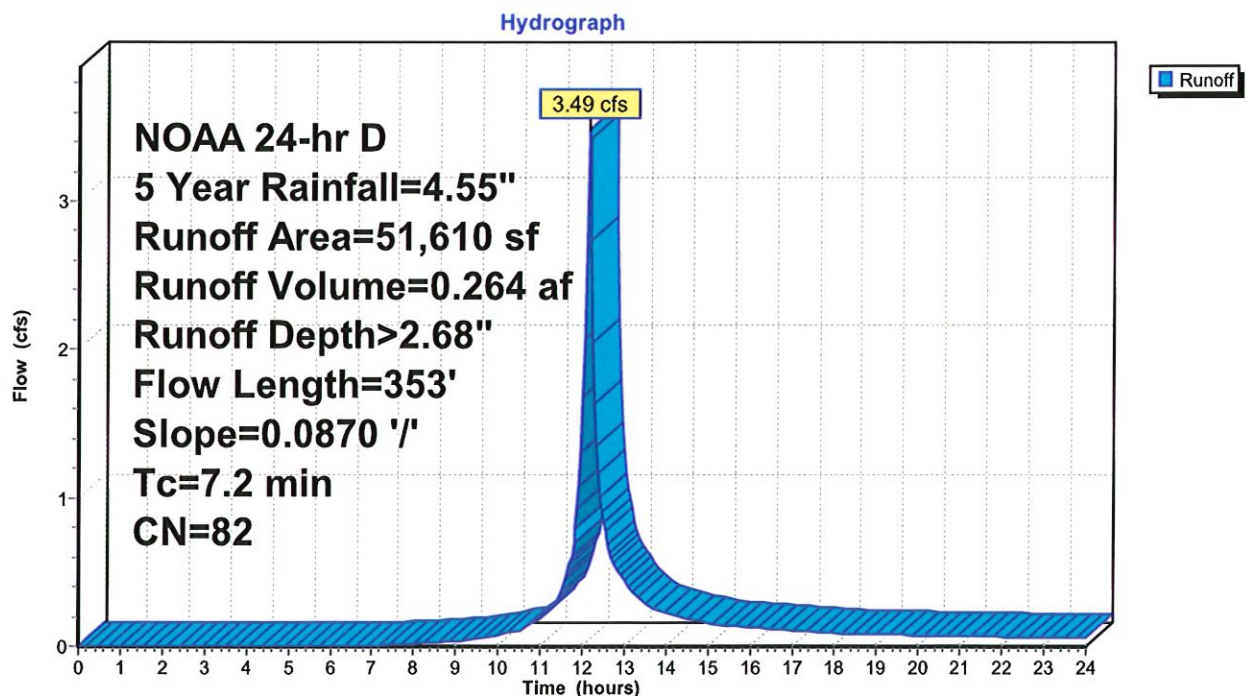
Runoff = 3.49 cfs @ 12.14 hrs, Volume= 0.264 af, Depth> 2.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 5 Year Rainfall=4.55"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		Sheet Flow, Sheet Flow
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		Shallow Concentrated Flow, Shallow Concentrated Flow
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**



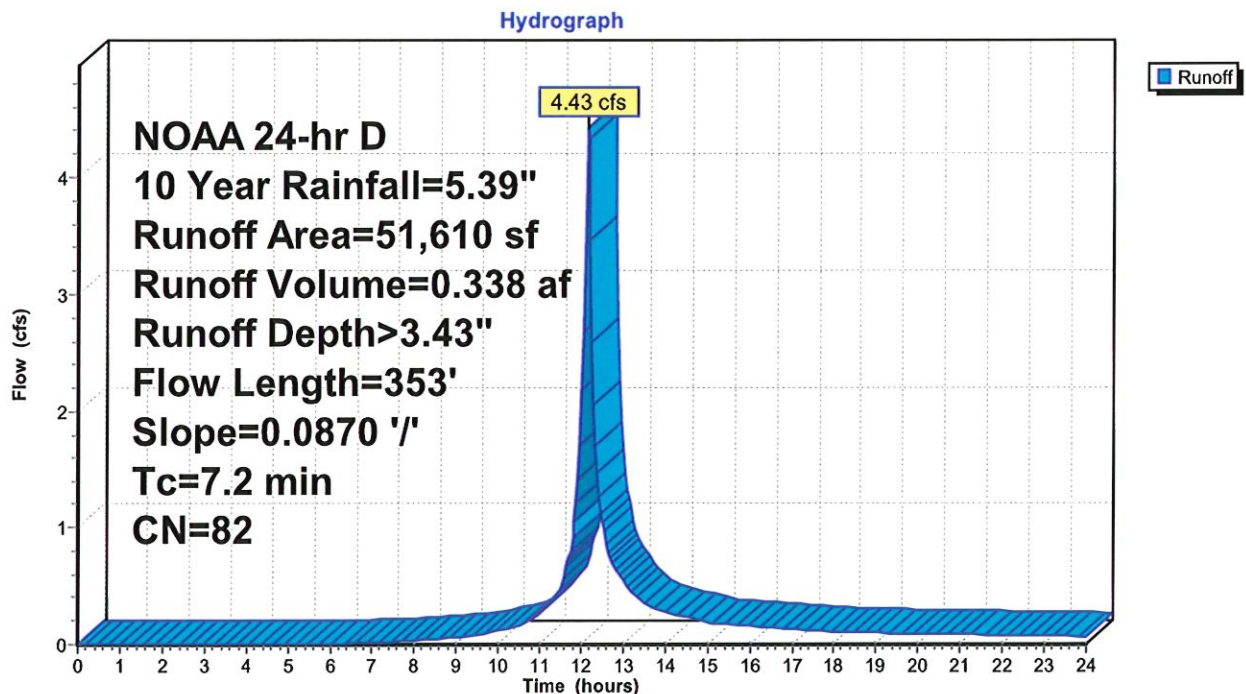
**Summary for Subcatchment 2S: Proposed Conditions**

Runoff = 4.43 cfs @ 12.14 hrs, Volume= 0.338 af, Depth> 3.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 10 Year Rainfall=5.39"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**

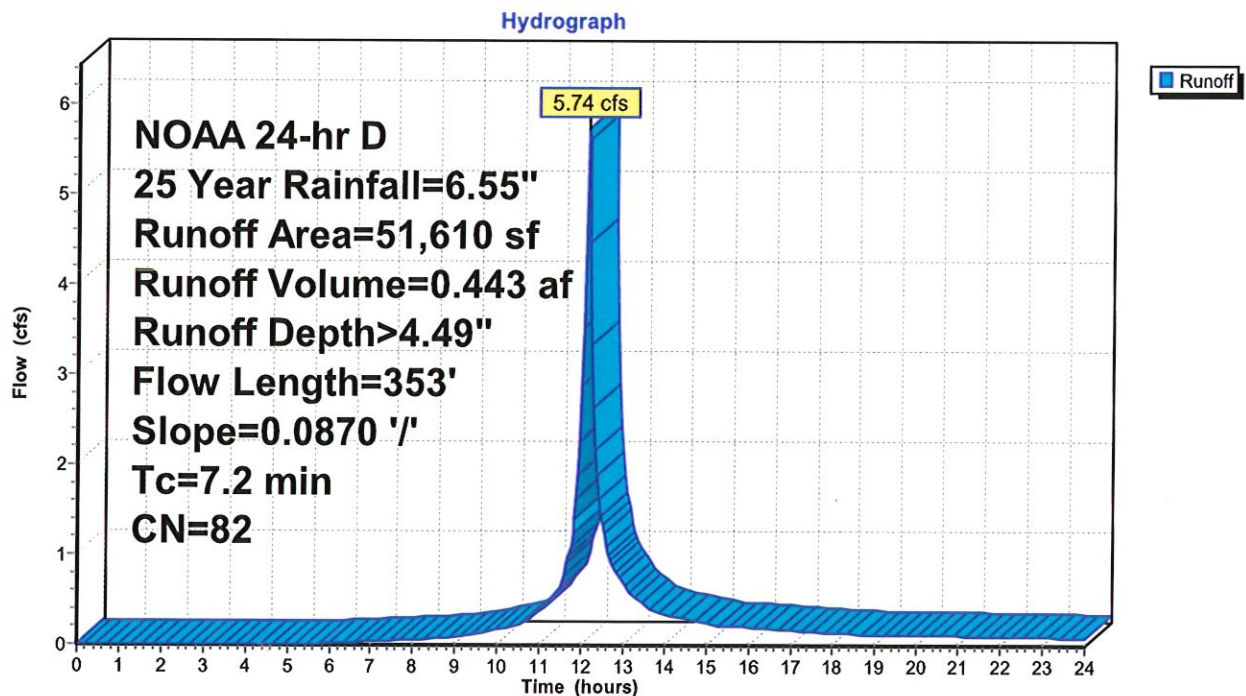
**Summary for Subcatchment 2S: Proposed Conditions**

Runoff = 5.74 cfs @ 12.14 hrs, Volume= 0.443 af, Depth> 4.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 25 Year Rainfall=6.55"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**



**Summary for Subcatchment 2S: Proposed Conditions**

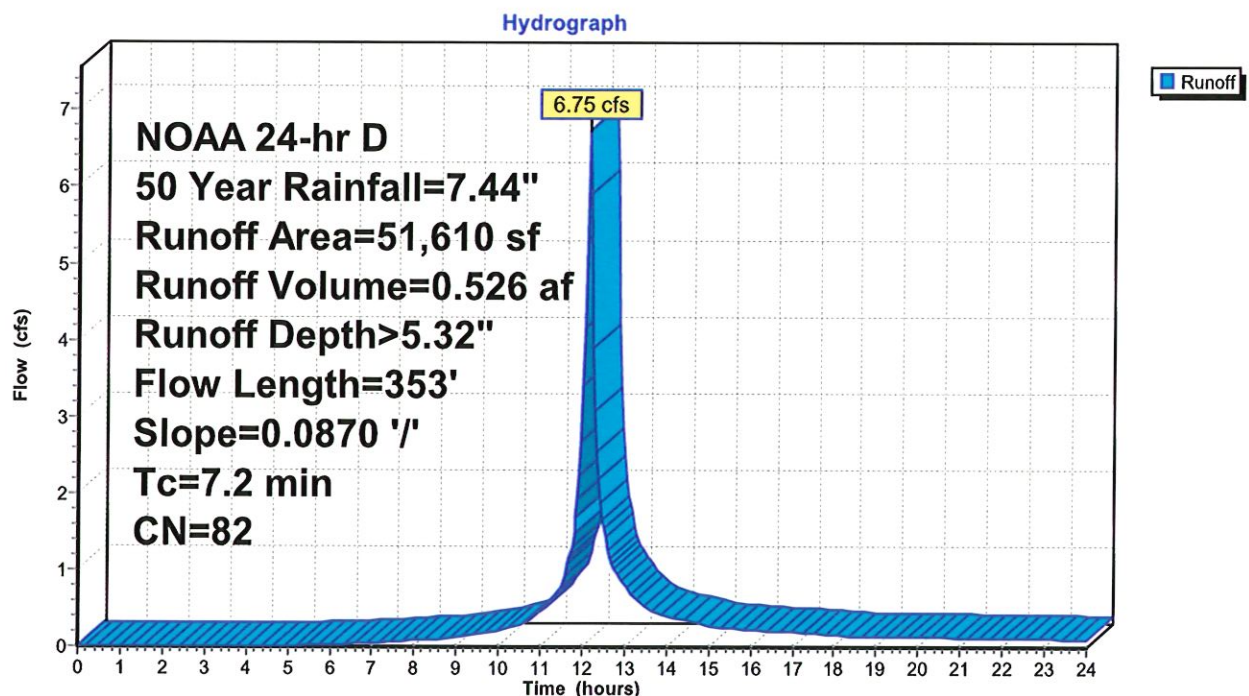
Runoff = 6.75 cfs @ 12.14 hrs, Volume= 0.526 af, Depth> 5.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 50 Year Rainfall=7.44"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b>
					Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b>
					Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**



**Summary for Subcatchment 2S: Proposed Conditions**

Runoff = 7.77 cfs @ 12.14 hrs, Volume= 0.610 af, Depth> 6.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
NOAA 24-hr D 100 Year Rainfall=8.34"

	Area (sf)	CN	Description
*	12,169	98	Buildings
*	10,597	98	Driveway/Parking
	28,844	69	50-75% Grass cover, Fair, HSG B
	51,610	82	Weighted Average
	28,844		55.89% Pervious Area
	22,766		44.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	100	0.0870	0.32		<b>Sheet Flow, Sheet Flow</b> Grass: Short n= 0.150 P2= 3.54"
2.0	253	0.0870	2.06		<b>Shallow Concentrated Flow, Shallow Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
7.2	353	Total			

**Subcatchment 2S: Proposed Conditions**