PRELIMINARY STORMWATER MANAGEMENT FACILITIES REPORT FOR



Site Address:

250 NW McNary Court Lee's Summit, MO 64086

Developer: TM Crowley 501 Pennsylvania Parkway Suite 160 Indianapolis, IN 46280 630-441-0165

Prepared By:





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Introduction

The proposed improvements that are depicted on the Preliminary Development Plan provides the design for the proposed development for Petsuites located at 250 NW McNary court. The development will increase the impervious area of the site therefore changing the characteristics of the stormwater runoff. The information supplied in this report will provide evidence that the Post Developed Stormwater Runoff has been mitigated appropriately with the Best Management Practices proposed for this development.

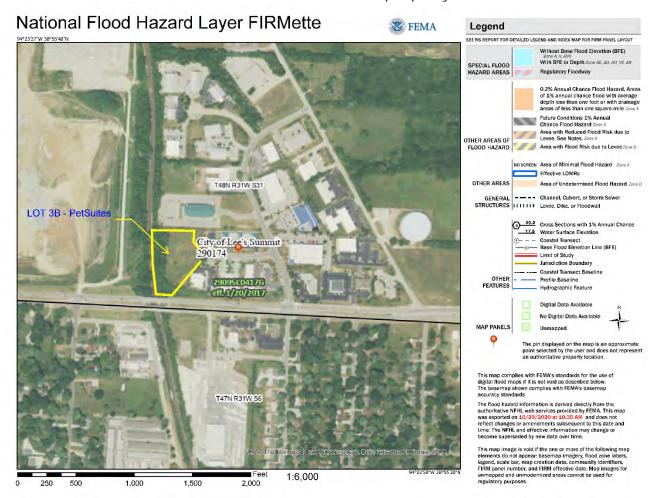
Project Narrative

TM Crowley is developing the subject property for Petsuites of America. The property size is ±2.11 acres and is located at the west end of the cul-de-sac on McNary Court. The proposed building will consist of a veterinary clinic and PetSuites for a total of 14,100 sq. ft. The overall drainage patterns of the existing area drain east to west towards the existing railroad.

FEMA Classification

This property is classified as Zone "X" areas outside the 100 year floodplain per 29095C0417G map effective date of 1/20/2017. There are no known flooding

issues. associated with this property.



Wetland and USACE Involvement

There are no wetlands listed associated with the national wetlands inventory.



Lake

Other

Riverine

November 2, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland
Freshwater Pond

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Site Area Calculations

Property Size	2.11 Acres
Pre-Development Condition	
2.11 Acres of Grass	CN=74
Post-Development Condition	
0.69 Acres of Impervious Area (Buildings and Pavement)	CN=98
1.42 Acres of Pervious Area	CN=74
"CN" Value Weighted Average	CN=82

Methodology

The methodology used for the project is Hydro CAD 10.10-3a for determination of SCS TR-55 hydrographs. The hydraulics for the project will be determined using Autodesk Civil 3D 2020 Storm Sewer Analysis. To determine the Storm Intensity and Frequency the overall project pre-development condition and post development condition was determined by the SCS method using NOAA's precipitation intensity data from their website.

Existing Condition Analysis

The summary of comprehensive control requirements shall be per 5601.5.A.4.and 5608.4 the "Comprehensive Control" release rate strategy. Assumed time of concentration associated with the areas were used to due to the minimal area to discharge locations.

The default strategy of comprehensive protection of the 1% (100 year event), 10% (10 year event) and 50% (2 year event) is being provided with this development. Comprehensive controls shall be the following:

- 50% storm peak rate less than nor equal to 0.5 cfs per site acre
- 10% storm peak rate less than nor equal to 2.0 cfs per site acre
- 1% storm peak rate less than nor equal to 3.0 cfs per site acre

Existing Conditions Summary Table

	iditions sumi					
ID J	RUNOFF (cfs)	TC	IMPERVIOUS AREA (ac.)	PERVIOUS AREA (ac.)	Total Area (ac.)	COMPOSITE C
E AREA A						
2-Year	2.79	30	0.99	0.175	1.17	94
10-Year	4.43	30	0.99	0.175	1.17	94
100-Year	6.58	30	0.99	0.175	1.17	94
■ AREA B						
2-Year	0.12	5	0.00	0.05	0.05	74
10-Year	0.24	5	0.00	0.05	0.05	74
100-Year	0.42	5	0.00	0.05	0.05	74
AREA C						
2-Year	0.35	5	0.00	0.15	0.15	74
10-Year	0.73	5	0.00	0.15	0.15	74
100-Year	1.27	5	0.00	0.15	0.15	74
AREA D						
2-Year	0.14	5	0.00	0.06	0.06	74
10-Year	0.29	5	0.00	0.06	0.06	74
100-Year	0.51	5	0.00	0.06	0.06	74
AREA E						
2-Year	6.56	20	1.84	0.325	2.17	94
10-Year	10.38	20	1.84	0.325	2.17	94
100-Year	15.41	20	1.84	0.325	2.17	94
AREA F						
2-Year	3.57	10	0.00	1.89	1.89	74
10-Year	7.6	10	0.00	1.89	1.89	74
100-Year	13.44	10	0.00	1.89	1.89	74
■ AREA G						
2-Year	0.04	10	0.00	0.02	0.02	74
10-Year	0.08	10	0.00	0.02	0.02	74
100-Year	0.14	10	0.00	0.02	0.02	74
AREA H						
2-Year	0.02	10	0.00	0.01	0.01	74
10-Year	0.04	10	0.00	0.01	0.01	74
100-Year	0.07	10	0.00	0.01	0.01	74

The site is an open field with a wooded area to the west. It is surrounded by commercial properties except the west which is railroad right of way. The existing runoff drains to the west. Due to the minimal TC and unknown relationship of discharge for the offsite basin we determined a 30 minute TC for Area A otherwise areas B, C and D were five minute time of concentrations. Area F, G, and H were given 10 minute time of concentrations representing the existing onsite conditions.

There are two points of interest associated with the existing conditions.

Existing Point of Interest #1

Point of Interest #1 – Existing Runoff to West of Site

This is in relationship to the property and the overland flow to the existing railway. The discharge associated with this is shown in Areas C, D, F, G and H. Area D drains offsite to the existing inlet at the street however its discharge associated with the project remains along with a small area of Area H that drains offsite however it is nominal of an area.

ID .	▼ RUNOFF (cfs)	TC	IMPERVIOUS AREA (ac.)	PERVIOUS AREA (ac.)	Total Area (ac.)	COMPOSITE CN
■ AREA C						
2-Year	0.35	5	0.00	0.15	0.15	74
10-Year	0.73	5	0.00	0.15	0.15	74
100-Yea	er 1.27	5	0.00	0.15	0.15	74
■ AREA D						
2-Year	0.14	5	0.00	0.06	0.06	74
10-Year	0.29	5	0.00	0.06	0.06	74
100-Yea	ar 0.51	5	0.00	0.06	0.06	74
■ AREA F						
2-Year	3.57	10	0.00	1.89	1.89	74
10-Year	7.6	10	0.00	1.89	1.89	74
100-Yea	ar 13.44	10	0.00	1.89	1.89	74
■ AREA G						
2-Year	0.04	10	0.00	0.02	0.02	74
10-Year	0.08	10	0.00	0.02	0.02	74
100-Yea	ar 0.14	10	0.00	0.02	0.02	74
■ AREA H						
2-Year	0.02	10	0.00	0.01	0.01	74
10-Year	0.04	10	0.00	0.01	0.01	74
100-Yea	er 0.07	10	0.00	0.01	0.01	74
2-Year	4.12					
10-Year	8.74					
100-Year	15.43					

The values listed at the bottom of the table are the combined runoff for the storm events for the existing conditions for the runoff onsite that leads offsite or to the existing storm sewers.

Existing Point of Interest #2

This point of interest is in relationship with the neighboring stormwater runoff that is collected in what appears to be a water quality basin. This is noted as area A. A longer time of concentration was provided to address the ponding area and reduced release rate and timing. We considering this 30 minute TC as conservative and protects the proposed project from potentially overcompensating with a larger TC and our calculations would not handle to the correct amount of stormwater.

ID TRUN	IOFF (cfs) TC IMPERVIO	OUS AREA (ac.) PERVIOU	S AREA (ac.) Total	Area (ac.) COMP	OSITE CN
■ AREA A					
2-Year	2.79 30	0.99	0.175	1.17	94
10-Year	4.43 30	0.99	0.175	1,17	94
100-Year	6.58 30	0.99	0.175	1.17	94

Allowable Release Rate Calculation

Due to this project providing the comprehensive control strategy that is listed in the existing condition analysis, our storm peak rate is based from the Existing Point of Interest #1. Since our site area is larger than the area listed in Existing Point of Interest #1 a table has been provided of the allowed release rates.

	Release Rate Per Acre (ac per cfs)	<u>Site Area (ac.)</u>	Allowable release rate (c.f.s.)
2 Year	0.50	2.11	1.06
10 Year	2.00	2.11	4.22
100 Year	3.00	2.11	6.33

Proposed Development Analysis

The proposed project will change the existing stormwater runoff by the increase of impervious area. The bypass areas have been mitigated to the maximum extent practical and the detention has accommodated for such areas. There is an overall reduction in the total runoff based on the proposed conditions as referenced in the Differential Runoff Table. The table was derived per the event tables from HydroCAD.

The proposed project will increase the impervious surface however it will reduce the runoff for the overall disturbed area per APWA 5600. This project proposes that areas that will route through the detention will meet the allowable release rate. The bypass areas consist of existing woodlands that will remain in place therefore to meet the requirements we would have to remove the existing vegetation in place.

Due to the orifice size for the WQv event designed at 1.5" the full water volume design cannot be obtained unless the orifice size is reduced to 0.67". Most municipalities in the Midwest with extended detention or channel protection requirements do not allow an orifice size less than 1.5". While we have a larger orifice size than the calculations state for the 40 hour extended detention, we are within 0.07 cfs of meeting the release rate.

Proposed Drainage Conditions Analysis

The proposed drainage area map that is referenced in the attachments provide a visual indicator for the runoff of each drainage area map. The proposed project will change the existing stormwater runoff by the increase of impervious area. The bypass areas have been mitigated to the maximum extent practical and the detention has accommodated for such areas. There is an overall reduction in the total runoff based on the proposed conditions as referenced in the Differential Runoff Table. The table was derived per the event tables from HydroCAD.

Proposed Runoff Table

Row Labels	Peak Runoff (cfs)	Impervious Area	Pervious Area	Total Area	Composite CN	TC
■ AREA 1		-				
2-Year	0.94	0.15	0.06	0.21	91	5
10-Year	1.52	0.15	0.06	0.21	91	. 5
100-Year	2.29	0.15	0.06	0.21	91	5
E AREA 2						
2-Year	1.04	0.16	0.08	0.24	90	5
10-Year	1.71	0.16	80.0	0.24	90	5
100-Year	2.6	0.16	0.08	0.24	90	5
AREA 3						
2-Year	1.51	0.16	0.28	0.44	83	5
10-Year	2.73	0.16	0.28	0.44	83	5
100-Year	4.37	0.16	0.28	0.44	83	5
AREA 4						
2-Year	1.69	0.33	0	0.33	98	5
10-Year	2.57	0.33	0	0.33	98	5
100-Year	3.74	0.33	0	0.33	98	5
AREA 5						
2-Year	0.38	0.05	0.05	0.1	86	5
10-Year	0.66	0.05	0.05	0.1	86	5
100-Year	1.04	0.05	0.05	0.1	86	5
■ AREA 6						
2-Year	1.36	0.06	0.45	0.51	77	5
10-Year	2.7	0.06	0.45	0.51	77	5
100-Year	4.59	0.06	0.45	0.51	77	5
AREA 7						
2-Year	0.22	0.02	0.05	0.07	81	5
10-Year	0.41	0.02	0.05	0.07	81	. 5
100-Year	0.68	0.02	0.05	0.07	81	. 5
AREA TO AI 11						
2-Year	0.05	0	0.02	0.02	74	5
10-Year	0.1	0	0.02	0.02	74	5
100-Year	0.17	0	0.02	0.02	74	5
OFFSITE TO CI	12					
2-Year	6.56	1.844	0.325	2.17	94	20
10-Year	10.38	1.844	0.325	2.17	94	20
100-Year	15.41	1.844	0.325	2.17	94	20

Proposed Drainage Area Description

- 1. Area to proposed inlet south of building. Routed through storm sewer.
- 2. Area east of building routed to inlet. Routed through storm sewer.
- 3. Overland flow path east of basin and basin area. Parking area through opening in trash enclosure.
- 4. Proposed Building Footprint
- 5. Areas that have turf that have underdrain systems.

- 6. Area onsite to the west of the property that slope to the existing railroad right of way. This area bypasses the detention basin.
- 7. Area onsite that drain to the existing curb inlet in the cul-de-sac. This area bypasses the detention basin.
- 8. Area to Al 11 Offsite Area to onsite.
- 9. Offsite Area to Curb Inlet in cul-de-sac.

Proposed Areas of Interest

The areas of interest and their corresponding runoff information is listed below. There are three points of interest for this project. The flowrate out of the basin, the discharge from the existing storm sewer outfall and the onsite areas that flow offsite due to the existing topography.

Proposed Area of Interest #1 – Discharge from Basin

Event	Inflow to Basin (ac.)	Peak Inflow (cfs)	Peak Elevation	Peak Storage (ac. ft.)	Peak Discharge (cfs)
DETENTION	BAŞIN				
2-Year	1.32	5.56	995.85	0.117	0.75
10-Year	1.32	9.19	996.77	0.19	2.67
100-Year	1.32	14.04	997.94	0.313	7.56

Proposed Area of Interest #2 - Onsite to Offsite Discharge

Event Peak I	Runoff (cfs) Sum o	of Pervious Imper	vious Area
■ AREA 6	(0.0)		
2-Year	1.36	0.45	0.06
10-Year	2.7	0.45	0.06
100-Year	4.59	0.45	0.06
■ AREA 7			
2-Year	0.22	0.05	0.02
10-Year	0.41	0.05	0.02
100-Year	0.68	0.05	0.02

Proposed Area of Interest #3 - Combined discharge existing storm sewer

Events Pea	k Outflow
■ 11-10	
2-Year	18.82
10-Year	31.26
100-Year	48.51

Worksheet 1 - Required Level of Service - Undeveloped Site

WORKSHEET 1 REQUIRED LEVEL OF SERVICE-UNDEVELOPED SITE

Project: PetSuites By: M. Fogarty
Location: Lee's Summit, MO
Date: 8/12/2020

1. Runoff Curve Number

A. Predevelopment CN

Cover Description	Soil	CN from		Product of CN x
Cover Description	HSG	Table 1	Area (ac.)	Area
Grass	С	80	2.11	168.8
				0
				0
		Totals:	2.11	168.80

Area-Weighted CN = total product/total area = 80 (Round to integer)

B. Postdevelopment CN

Cover Description	Soil	CN from		Product of CN x
Cover Description	HSG	Table 1	Area (ac.)	Area
Building	С	98	0.32	31.36
Pavement	С	98	0.4	39.2
Green Space	С	80	1.39	111.2
		Totals:	2.11	181.76

Area-Weighted CN = total product/total area = 86 (Round to integer)

C. Level of Service (LS) Calculation		Change in CN	LS
		17+	8
Predevelopment CN:	80	7 to 16	7
		4 to 6	6
Postdevelopment CN:	86	1 to 3	5
		0	4
Difference:	6	-7 to -1	3
		-8 to -17	2
LS Required:	6	-18 to -21	1
		-22 -	0

<u>Worksheet 2 – Develop Mitigation Package(s) That Meets the Required Level of Service</u>

WORKSHEET 2: DEVELOP MITIGATION PACKAGE(S) THAT MEETS THE REQUIRED LS

Pro	oject:	PetSuites				Ву:	M. Fogarty		
Lo	cation:	Lee's Summit, MO				Date:	8/6/2020		
1.	Required LS (New Development, Wksht 1) or Total VR (Redevelopment, Worksheet 1)								
	Note: Vario	us BMP's may alter CN of p	roposed develo _l	oment, and	LS, recalculat	e both if	applicable.		
2.	Proposed B	MP Option Package No.							
1		Cover/BMP Description	Treatment Area (ac)	VR from Table 4.4 or 4.6 ¹	Product of VR X Area	_			
		Vegetative Basin	1.32	6	7.92				
					0.00				
		Total ² :	1.32	Total:	7.92				
			*Weighte	d VR:	6.00				
		 VR calculated for final B Total treatment area caarea. Blank in Redevelopment 	•		f the actual si	te			
		Meets Required LS (Yes/No)	Yes	(If no, or a	dditional opti elow)	ons are b	peing tested		

40 Hour Extended Detention/Channel Protection Calculations

Project: PetSuites - Lee's Summit, MO PCE Project # 2008920

COMPUTATIONS FOR CP_V PROPOSED:

Site Acreage	<u>lm</u>	Impervious Area		Percent Impervious		
2.11 Ac.		0.69 A	C.		32.7	%
Impervious Areas						
Pavement Area		0.36	Ac.			
Roof Area	=	0.33	Ac.			
Total Impervious Area	=	0.69	Ac.			
Pervious Areas						
Grassed Areas	=	1.42	Ac.	Soil Type	= C	
Total Pervious Area	=	1.42	Ac.			

The following computational procedure follows the methodology detailed in Appendix D.11 of the Maryland Stormwater Design Manual.

1. Compute the time of concentration (tc) and the one year post-development runoff depth (Q_a) in inches.

From TR-55 $T_c = 0.10$ hours

2. Determine the curve number (See Hydrograph Report)

CN= 82

3. Determine the intial abstraction (la):

```
S = potential maximum retention after runoff begins (in) 

S = (1000 \div 82.0) - 10 

S = 2.20 

la = Initial abstraction 

la = 0.2 * S ( 200/CN) - 2 

la = 0.2 * 2.20 ( 200/82.0) - 2 

la = 0.44 0.44
```

4 Calculate Ia/P: For this method, the value of Ia/P must be in the range of:

0.1 <= la/P = 0.5. If la/P is less than 0.1 then set la/P to 0.1 If la/P is>0.5, then set la/P to 0.5

P=Channel Protection Storm Event Depth =
$$1.37$$
 " $Ia/P = 0.44 / 1.37 = 0.320$ Therefore use 0.10

5. Determine Qa (Runoff depth in watershed inches)

$$Q_{a} = \frac{(P - I_{a})^{2}}{(P - I_{a}) + S}$$

$$Q_{a} = \frac{(1.37 - 0.44)^{2}}{(1.37 - 0.44) + 2.20}$$

$$Q_{a} = 0.28 \text{ cfs}$$

_

6. With T_c and I_a/P known, find the unit peak factor (q_u) using Figure D.11.1 (attached).

$$T_c = 0.1$$

 $I_a/P = 0.10$
 $q_u = 990$

7. Compute the one year post-development peak discharge qi.

8. Find q_o/q_i from MARYLAND Stormwater Design Maunual Appendix D-11, Figur (Ratio of outflow to inflow)

9. Compute the peak outflow discharge

10. Compute V_s/V_r; for type II rainfall distirbution (Ratio of storage to runoff volume)

$$V_s/V_r = 0.683 - 1.43 (q_o/q_i) + 1.64 (q_o/q_i)^2 - 0.804 (q_o/q_i)^3$$

 $V_s/V_r = 0.683 - 1.43 (0.02) + 1.64 (0.02)^2 - 0.804 (0.02)^3$
 $V_s/V_r = 0.655$

11. Compute the extended detention storage volume

$$V_s$$
 = V_s/V_r (Q_a) (1 / 12) (Ac) = ac-ft
 V_s = 0.655 (0.28) (1 / 12) (2.11) = ac-ft
 V_s = 0.03193 ac-ft
= 1,391 cf Required

12. Define the CP_V Release Rate:

Known QI = 0.90 cfs

$$q_o = (q_0/q_i) q_i$$

 $q_o = (0.02 / 0.90) 0.90$
 $q_o = 0.018$ cfs

13. Compute the Channel Protection oriface size:

$$A_o = Q / [(C*(2 gh_o ^0.5)] C = 0.60$$

$$= 0.018 [4.81*(2.50 ^0.5)] h_o = 2.50 ft$$

$$A_o = 0.0024 sf pi = 3.14$$

$$D_o = [(4* Ao / pi)]* 0.5$$

$$D_o = 0.0551 ft = 0.661 in > 1.5 in$$

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WORKSHEET 1 REQUIRED LEVEL OF SERVICE-UNDEVELOPED SITE

Project: PetSuites By: M. Fogarty
Location: Lee's Summit, MO
Date: 8/12/2020

1. Runoff Curve Number

A. Predevelopment CN

Cover Description	Soil HSG	CN from Table 1	Area (ac.)	Product of CN x Area
Grass	С	80	2.11	168.8
				0
				0
		Totals:	2.11	168.80

Area-Weighted CN = total product/total area = 80 (Round to integer)

B. Postdevelopment CN

Cover Description	Soil HSG	CN from Table 1	Area (ac.)	Product of CN x Area
Building	С	98	0.32	31.36
Pavement	С	98	0.4	39.2
Green Space	С	80	1.39	111.2
		Totals:	2.11	181.76

Area-Weighted CN = total product/total area = 86 (Round to integer)

C. Level of Service (LS) Calculation		Change in CN	LS
		17+	8
Predevelopment CN:	80	7 to 16	7
		4 to 6	6
Postdevelopment CN:	86	1 to 3	5
		0	4
Difference:	6	-7 to -1	3
		-8 to -17	2
LS Required:	6	-18 to -21	1
		-22 -	0

Summarization and Conclusions

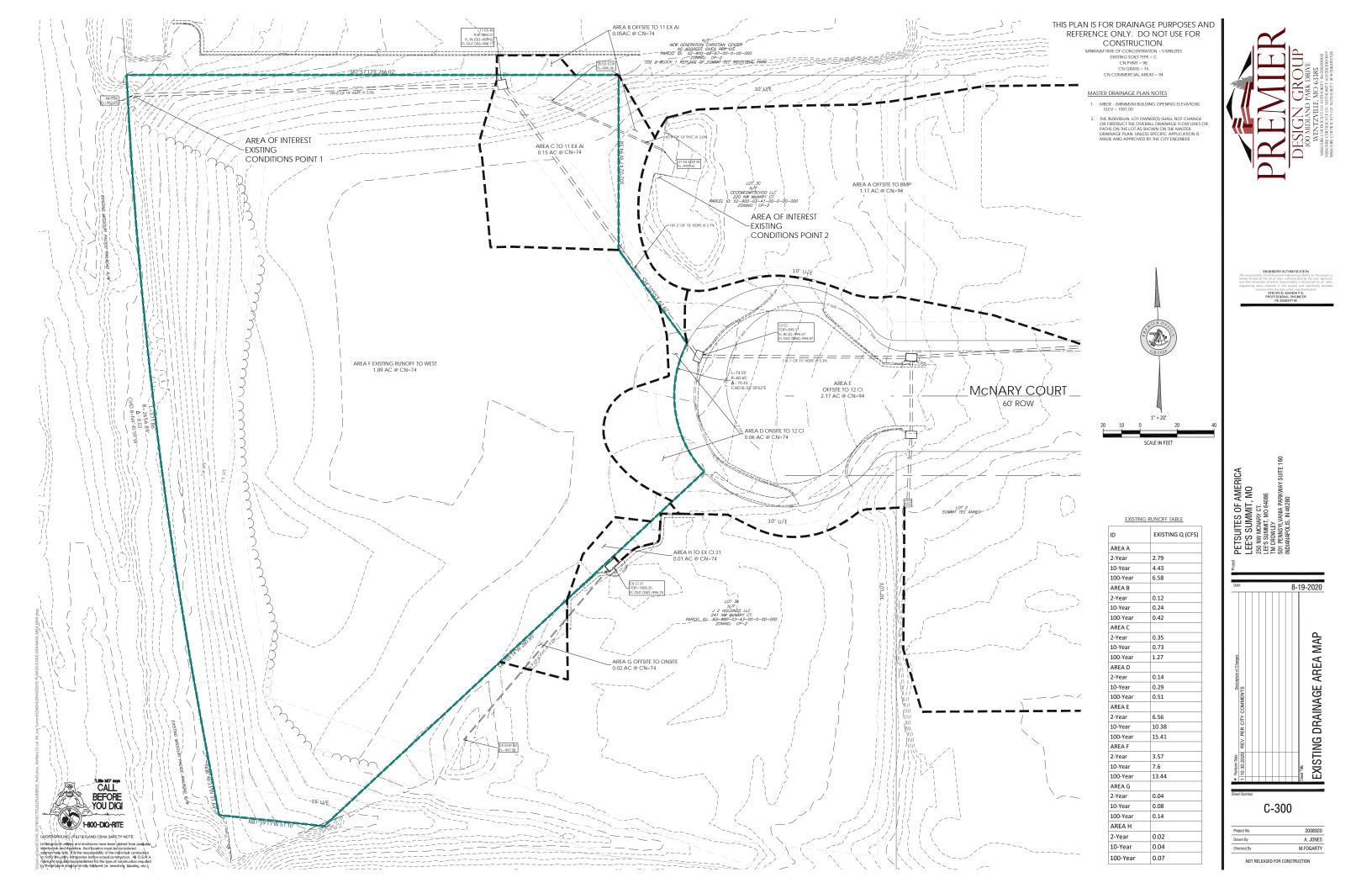
Impacts to downstream sewers and streams have been mitigated to the maximum extent practical. This project provides filters via catch basin inserts and a vegetated basin for water quality which meets the KC APWA MARC Manual. This project will meet the requirements that were being set forth by the governing jurisdiction.

The listed waivers as shown below are being requested for the post developed condition to allow the increase from the allowable release rate due to the Bypass Areas associated with the existing vegetation to remain instead of routing those areas to the basin. This waiver would be for the 2 Year, 10 Year and 100 Year Events. The proposed project will increase the impervious surface however it will reduce the runoff for the overall disturbed area per APWA 5600. This project proposes that areas that will route through the detention will meet the allowable release rate. The bypass areas consist of existing woodlands that will remain in place therefore to meet the requirements we would have to remove the existing vegetation in place.

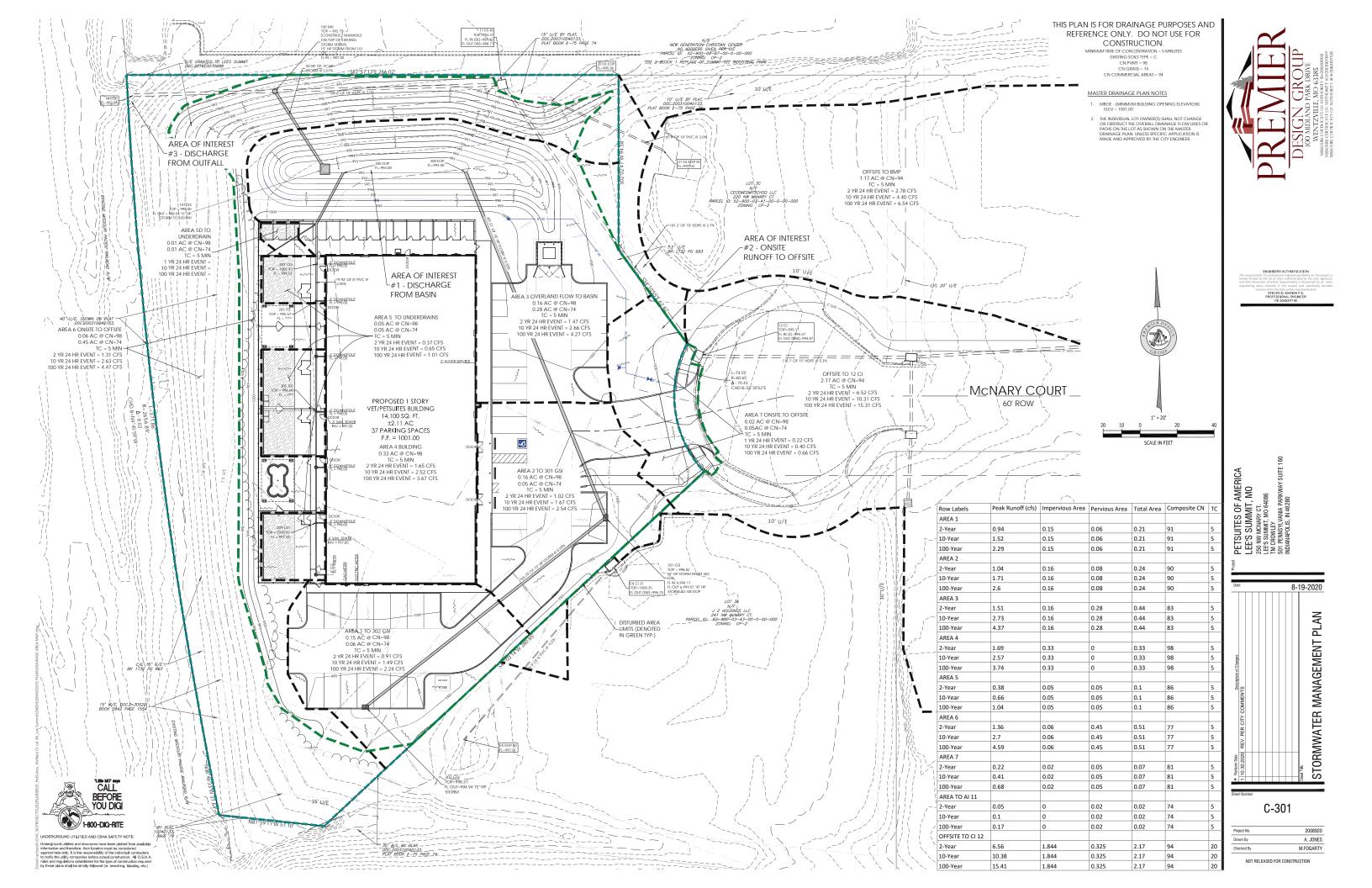
Due to the orifice size for the WQv event designed at 1.5" the full water volume design cannot be obtained unless the orifice size is reduced to 0.67". Most municipalities in the Midwest with extended detention or channel protection requirements do not allow an orifice size less than 1.5". While we have a larger orifice size than the calculations state for the 40 hour extended detention, we are within 0.07 cfs of meeting the release rate. Below is the final routing for the project.

	Existing Conditions	Post Developed Condition (No Detention) (c.f.s.)	Allowable release rate (c.f.s.)	Post Developed Routed through Detention (c.f.s.)	Bypass Areas (c.f.s.)	Post Developed Condition Final Routing (c.f.s.)	Differential Runoff Post Developed to Existing	Increase or Reduction for Runoff from Existing to Proposed Condition
2 Year	4.12	6.76	1.06	0.75	1.58	<mark>2.33</mark>	-1.79	Reduction
10 Year	8.74	12.44	4.22	2.67	3.11	<mark>5.78</mark>	-2.96	Reduction
100 Year	15.43	20.17	6.33	7.31	5.27	<mark>12.58</mark>	-2.85	Reduction

Appendix A Existing Drainage Area Map



Appendix B Proposed Drainage Area Map



Appendix C HydroCAD Hydrographs

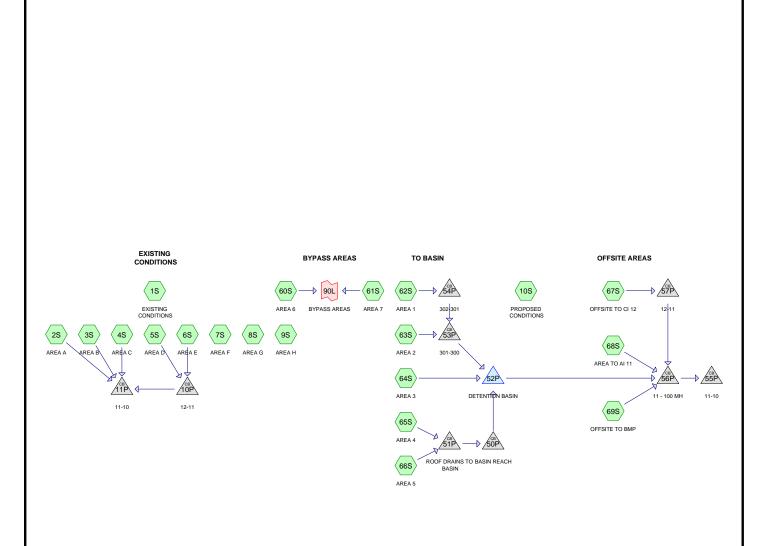










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- 40 Subcat 64S: AREA 3
- 41 Subcat 65S: AREA 4
- 42 Subcat 66S: AREA 5
- 43 Subcat 67S: OFFSITE TO CI 12
- 44 Subcat 68S: AREA TO Al 11
- 45 Subcat 69S: OFFSITE TO BMP
- 46 Pond 10P: 12-11
- 48 Pond 11P: 11-10
- 50 Pond 50P: BASIN REACH
- 52 Pond 51P: ROOF DRAINS TO BASIN
- 54 Pond 52P: DETENTION BASIN
- 56 Pond 53P: 301-300
- 58 Pond 54P: 302-301
- 60 Pond 55P: 11-10
- 62 Pond 56P: 11 100 MH
- 64 Pond 57P: 12-11
- 66 Link 90L: BYPASS AREAS

10-Year Event

- 67 Subcat 1S: EXISTING CONDITIONS
- 68 Subcat 2S: AREA A
- 69 Subcat 3S: AREA B
- 70 Subcat 4S: AREA C
- 71 Subcat 5S: AREA D
- 72 Subcat 6S: AREA E
- 73 Subcat 7S: AREA F
- 74 Subcat 8S: AREA G
- 75 Subcat 9S: AREA H
- 76 Subcat 10S: PROPOSED CONDITIONS
- 77 Subcat 60S: AREA 6
- 78 Subcat 61S: AREA 7
- 79 Subcat 62S: AREA 1
- 80 Subcat 63S: AREA 2
- 81 Subcat 64S: AREA 3
- 82 Subcat 65S: AREA 4
- 83 Subcat 66S: AREA 5
- 84 Subcat 67S: OFFSITE TO CI 12
- 85 Subcat 68S: AREA TO Al 11
- 86 Subcat 69S: OFFSITE TO BMP
- 87 Pond 10P: 12-11
- 89 Pond 11P: 11-10

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- 91 Pond 50P: BASIN REACH
- 93 Pond 51P: ROOF DRAINS TO BASIN
- 95 Pond 52P: DETENTION BASIN
- 97 Pond 53P: 301-300
- 99 Pond 54P: 302-301
- 101 Pond 55P: 11-10
- 103 Pond 56P: 11 100 MH
- 105 Pond 57P: 12-11
- 107 Link 90L: BYPASS AREAS

100-Year Event

- 108 Subcat 1S: EXISTING CONDITIONS
- 109 Subcat 2S: AREA A
- 110 Subcat 3S: AREA B
- 111 Subcat 4S: AREA C
- 112 Subcat 5S: AREA D
- 113 Subcat 6S: AREA E
- 114 Subcat 7S: AREA F
- 115 Subcat 8S: AREA G
- 116 Subcat 9S: AREA H
- 117 Subcat 10S: PROPOSED CONDITIONS
- 118 Subcat 60S: AREA 6
- 119 Subcat 61S: AREA 7
- 120 Subcat 62S: AREA 1
- 121 Subcat 63S: AREA 2
- 122 Subcat 64S: AREA 3
- 123 Subcat 65S: AREA 4
- 124 Subcat 66S: AREA 5
- 125 Subcat 67S: OFFSITE TO CI 12
- 126 Subcat 68S: AREA TO AI 11
- 127 Subcat 69S: OFFSITE TO BMP
- 128 Pond 10P: 12-11
- 130 Pond 11P: 11-10
- 132 Pond 50P: BASIN REACH
- 134 Pond 51P: ROOF DRAINS TO BASIN
- 136 Pond 52P: DETENTION BASIN
- 138 Pond 53P: 301-300
- 140 Pond 54P: 302-301
- 142 Pond 55P: 11-10
- 144 Pond 56P: 11 100 MH
- 146 Pond 57P: 12-11
- 148 Link 90L: BYPASS AREAS

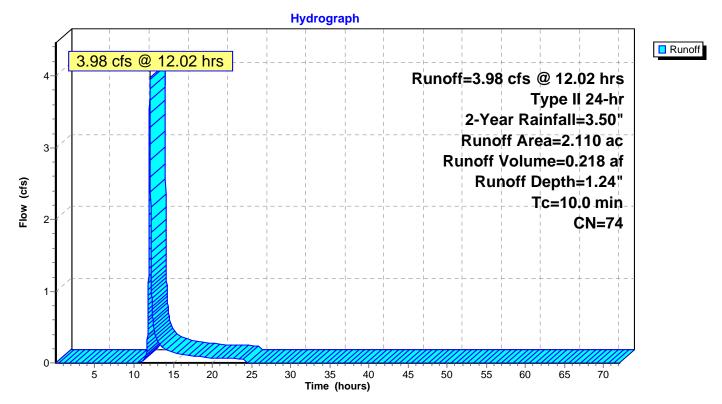
Multi-Event Tables

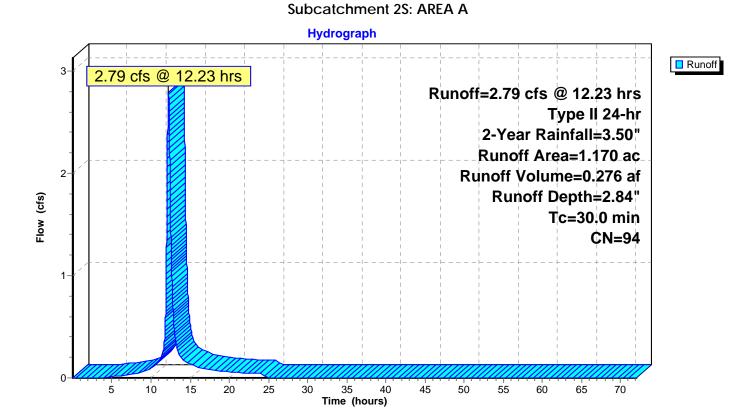
- 149 Subcat 1S: EXISTING CONDITIONS
- 150 Subcat 2S: AREA A
- 151 Subcat 3S: AREA B
- 152 Subcat 4S: AREA C
- 153 Subcat 5S: AREA D
- 154 Subcat 6S: AREA E
- 155 Subcat 7S: AREA F
- 156 Subcat 8S: AREA G
- 157 Subcat 9S: AREA H
- 158 Subcat 10S: PROPOSED CONDITIONS
- 159 Subcat 60S: AREA 6
- 160 Subcat 61S: AREA 7
- 161 Subcat 62S: AREA 1
- 162 Subcat 63S: AREA 2
- 163 Subcat 64S: AREA 3
- 164 Subcat 65S: AREA 4
- 165 Subcat 66S: AREA 5

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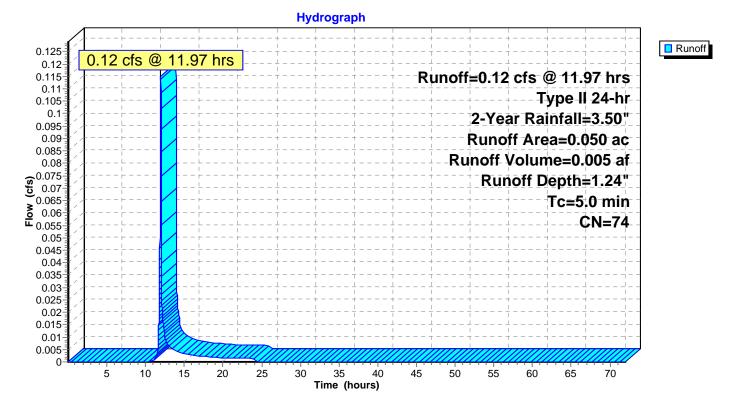
- 166 Subcat 67S: OFFSITE TO CI 12167 Subcat 68S: AREA TO AI 11168 Subcat 69S: OFFSITE TO BMP
- 169 Pond 10P: 12-11170 Pond 11P: 11-10
- 171 Pond 50P: BASIN REACH
- 172 Pond 51P: ROOF DRAINS TO BASIN
- 173 Pond 52P: DETENTION BASIN
- 174 Pond 53P: 301-300 175 Pond 54P: 302-301 176 Pond 55P: 11-10
- 177 Pond 56P: 11 100 MH
- 178 Pond 57P: 12-11
- 179 Link 90L: BYPASS AREAS

Subcatchment 1S: EXISTING CONDITIONS

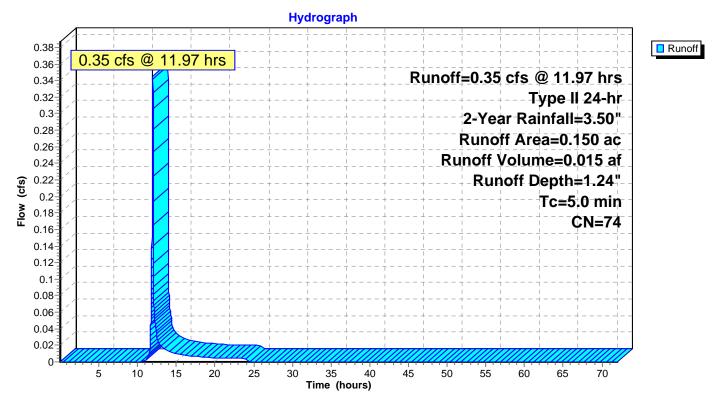




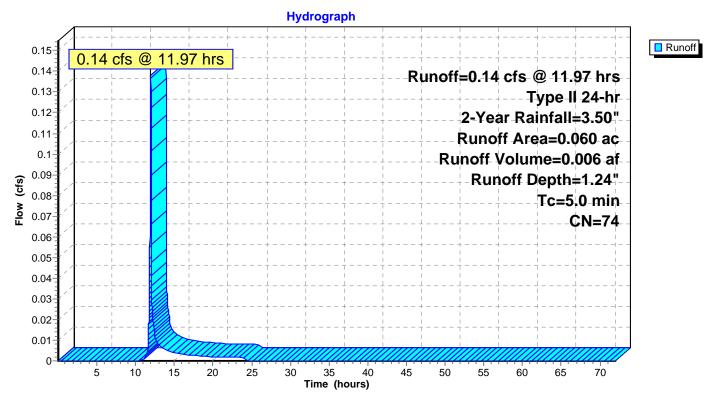
Subcatchment 3S: AREA B



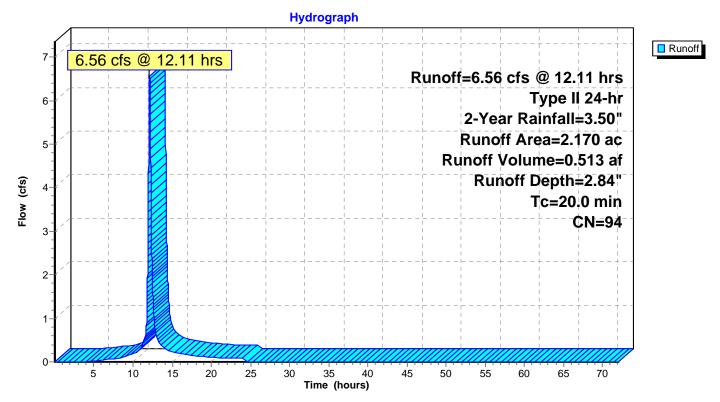
Subcatchment 4S: AREA C



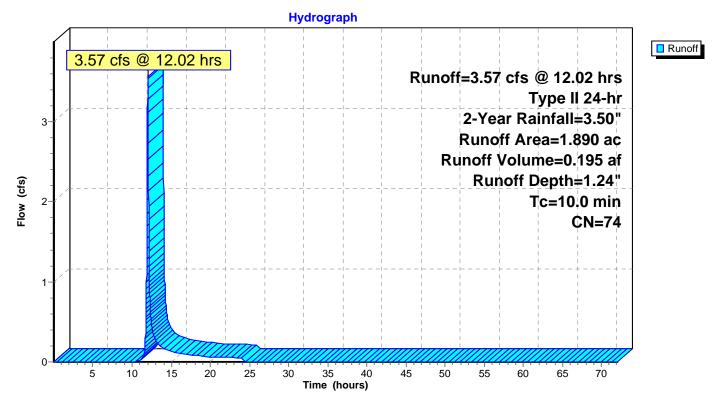
Subcatchment 5S: AREA D



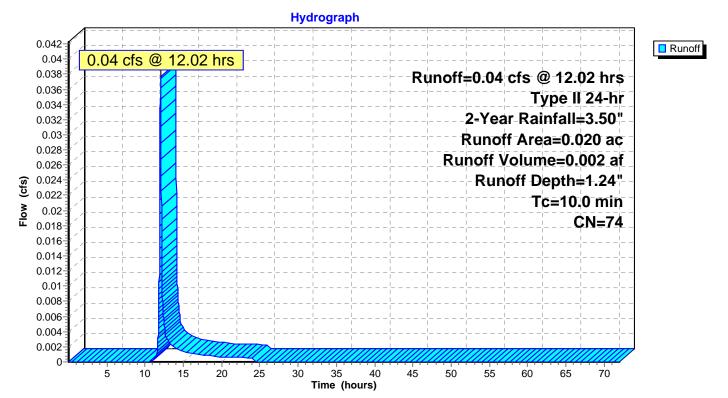
Subcatchment 6S: AREA E



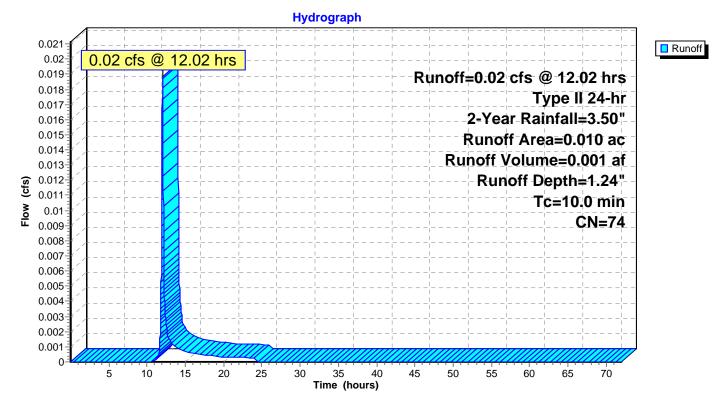
Subcatchment 7S: AREA F



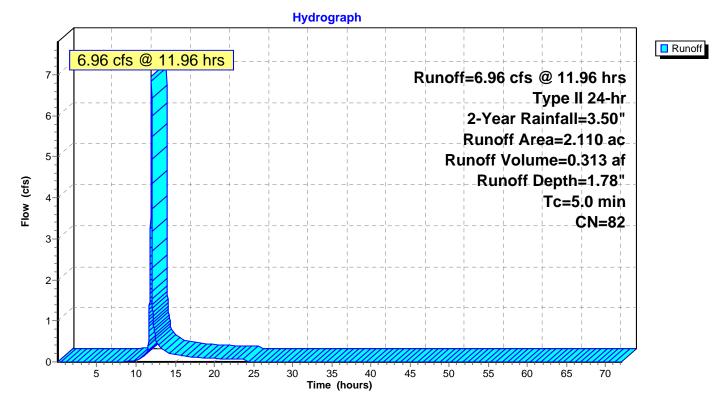
Subcatchment 8S: AREA G



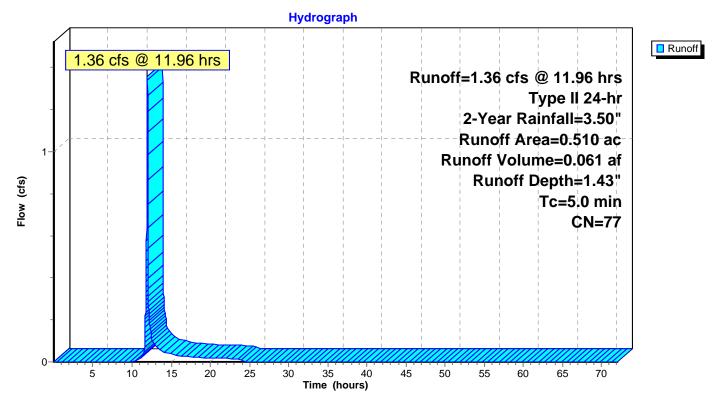
Subcatchment 9S: AREA H



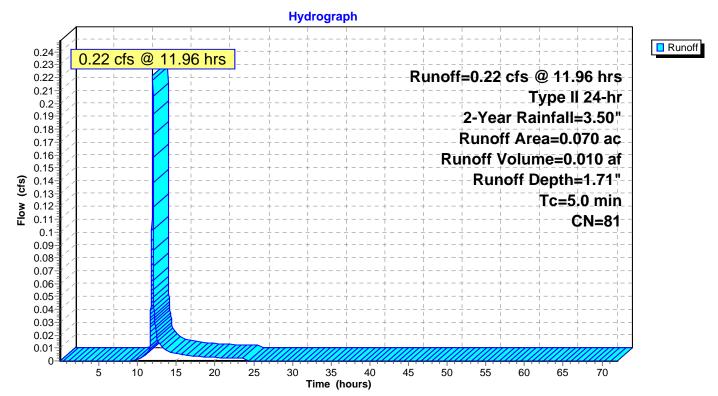
Subcatchment 10S: PROPOSED CONDITIONS



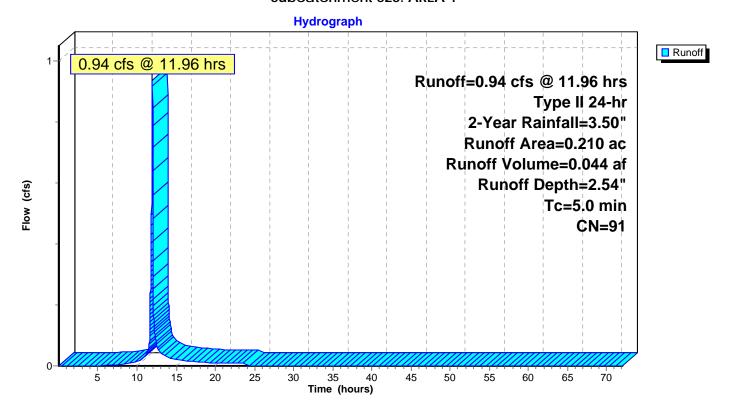
Subcatchment 60S: AREA 6



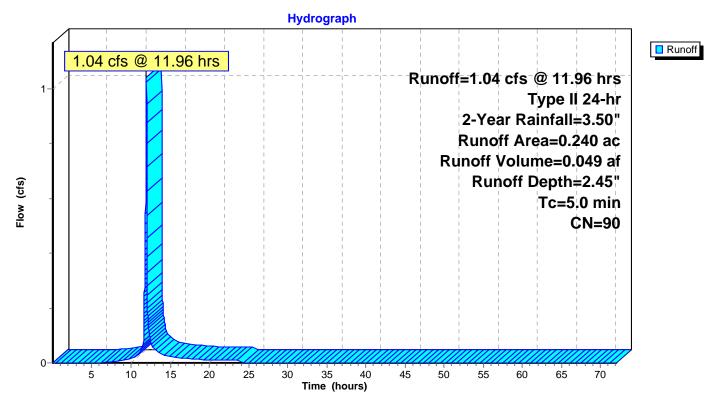
Subcatchment 61S: AREA 7



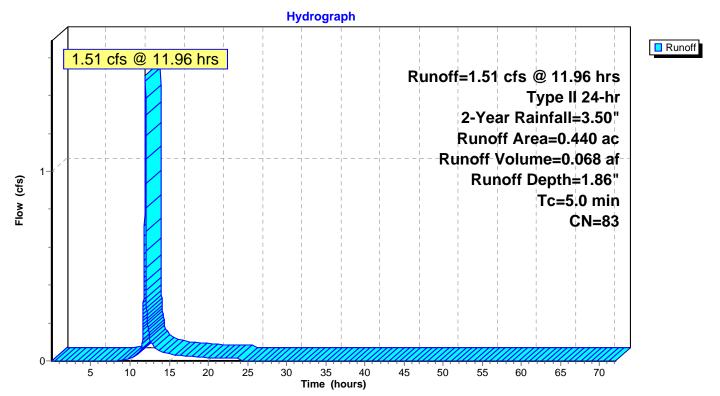
Subcatchment 62S: AREA 1



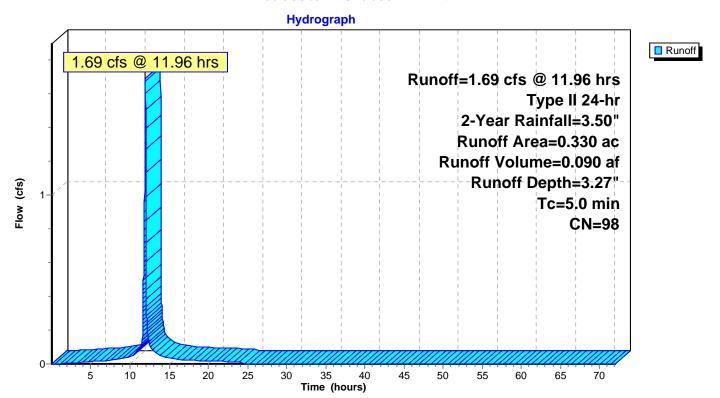
Subcatchment 63S: AREA 2



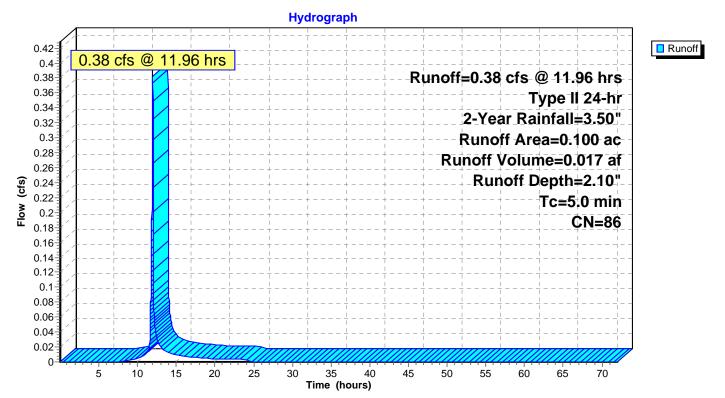
Subcatchment 64S: AREA 3



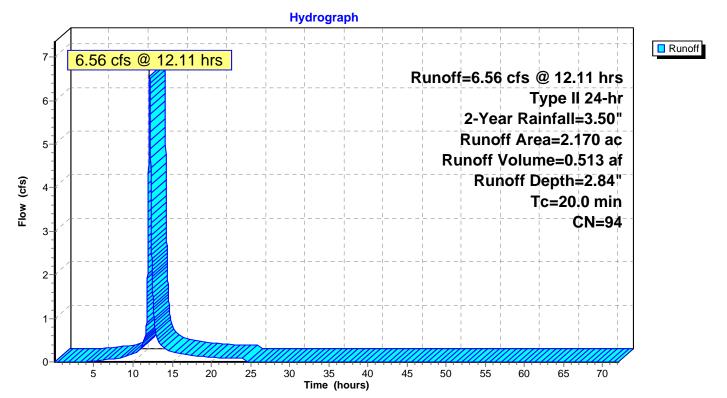
Subcatchment 65S: AREA 4



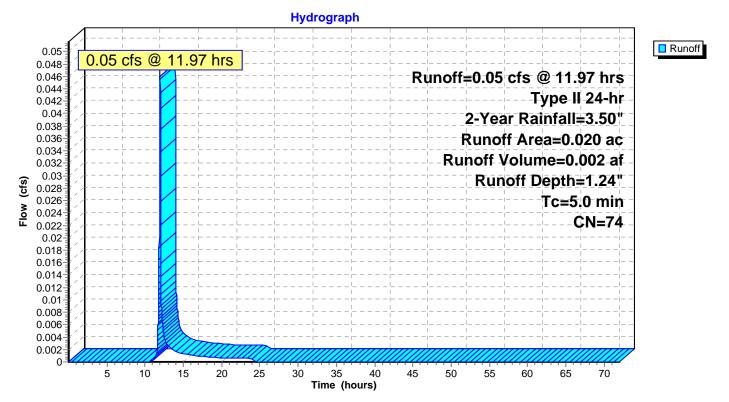
Subcatchment 66S: AREA 5



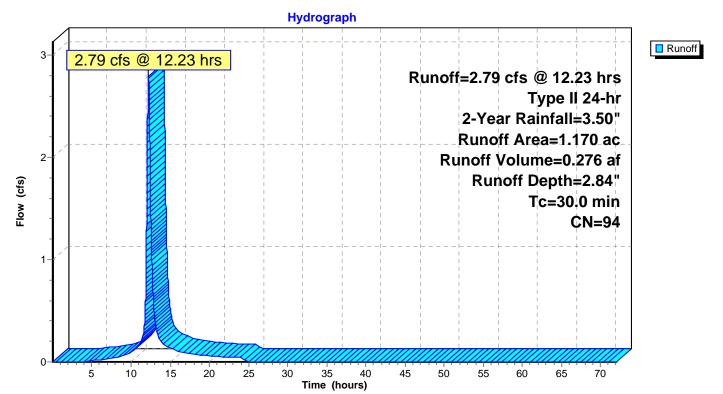
Subcatchment 67S: OFFSITE TO CI 12



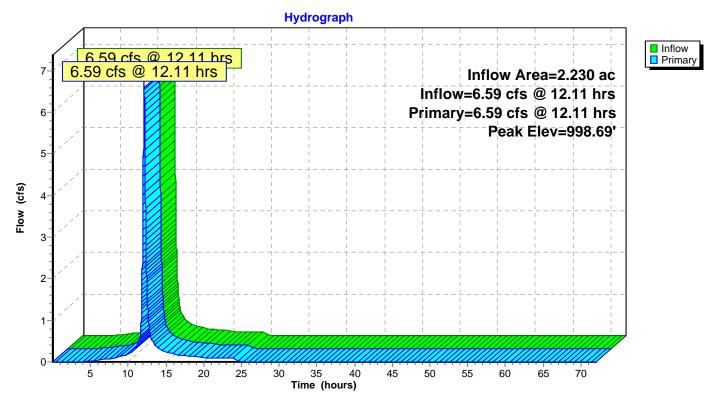
Subcatchment 68S: AREA TO AI 11



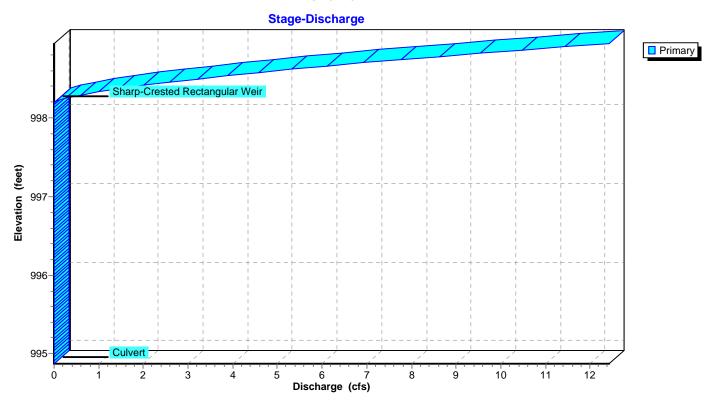
Subcatchment 69S: OFFSITE TO BMP



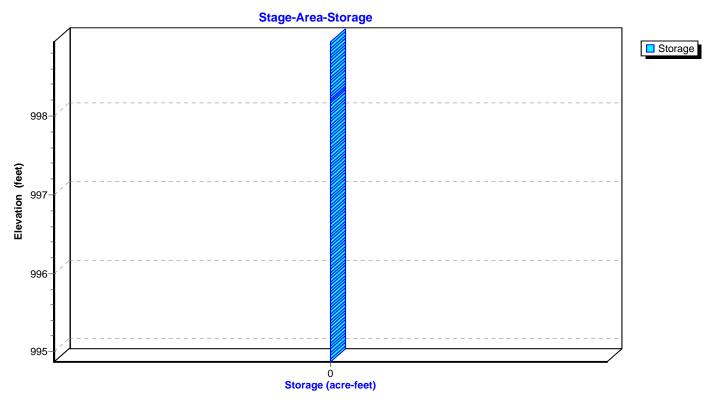
Pond 10P: 12-11



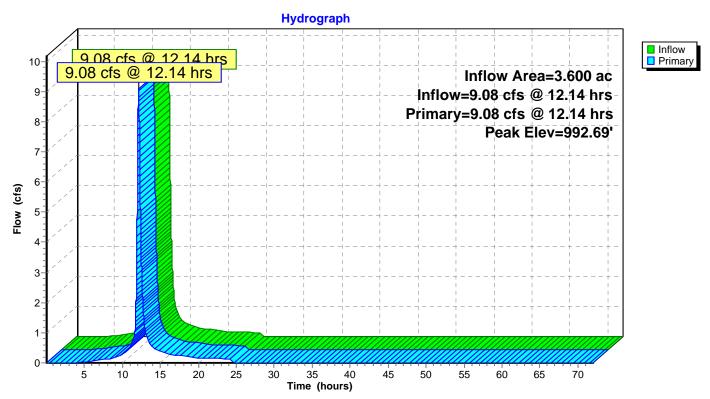
Pond 10P: 12-11



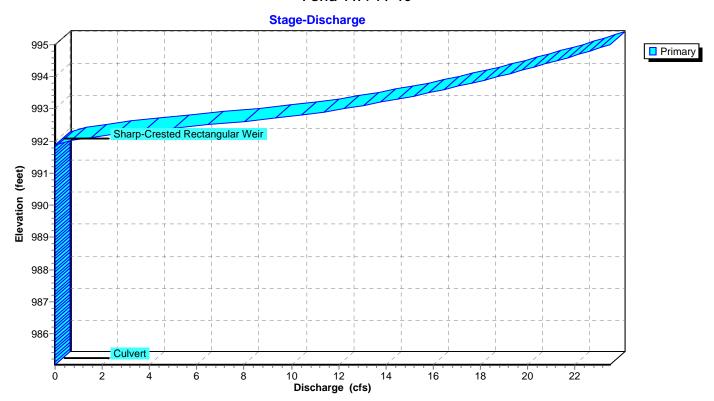




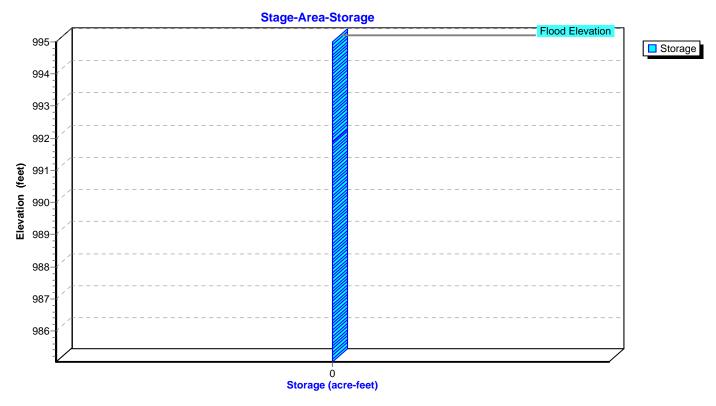
Pond 11P: 11-10



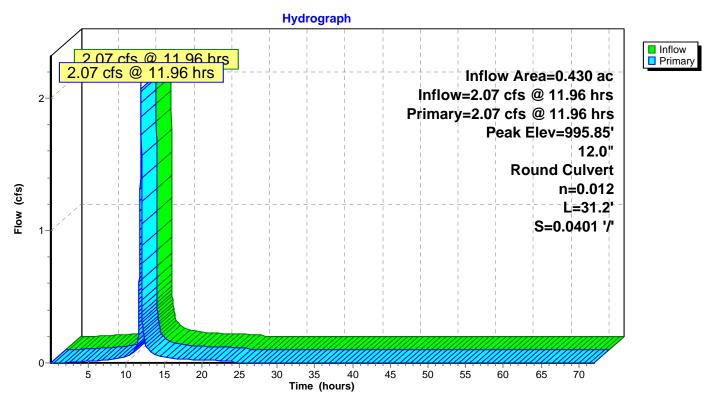
Pond 11P: 11-10



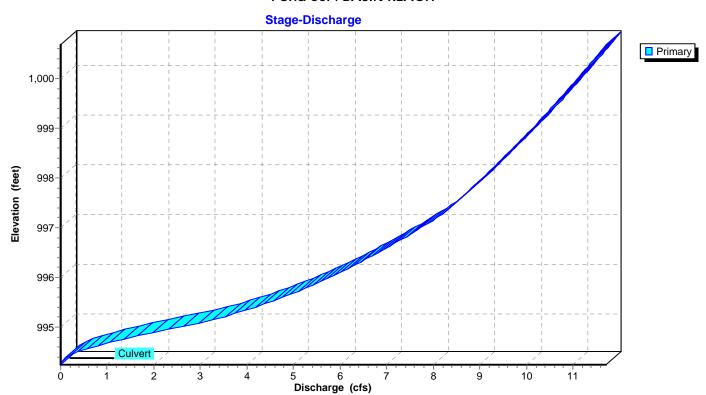




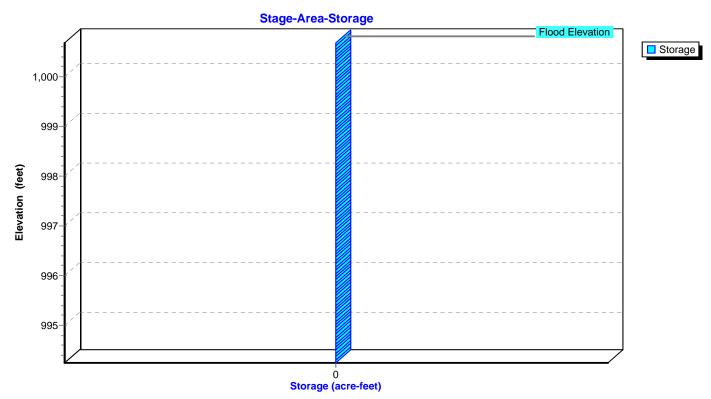
Pond 50P: BASIN REACH



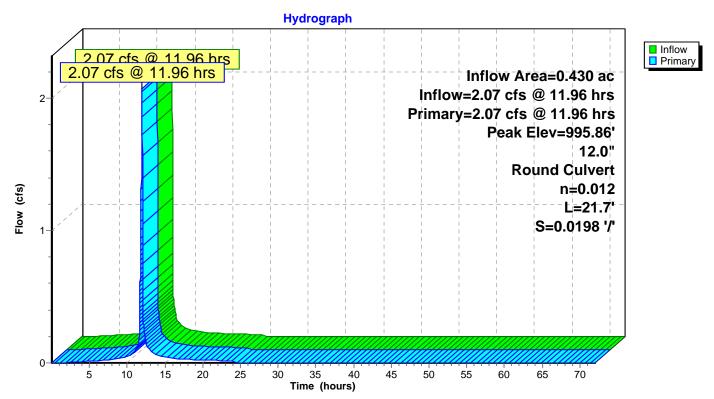
Pond 50P: BASIN REACH



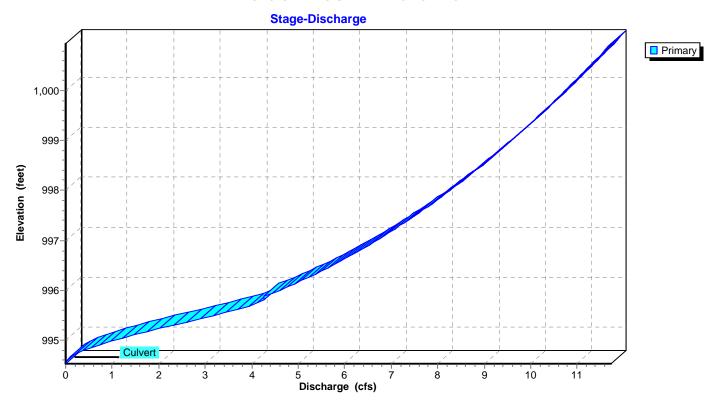
Pond 50P: BASIN REACH



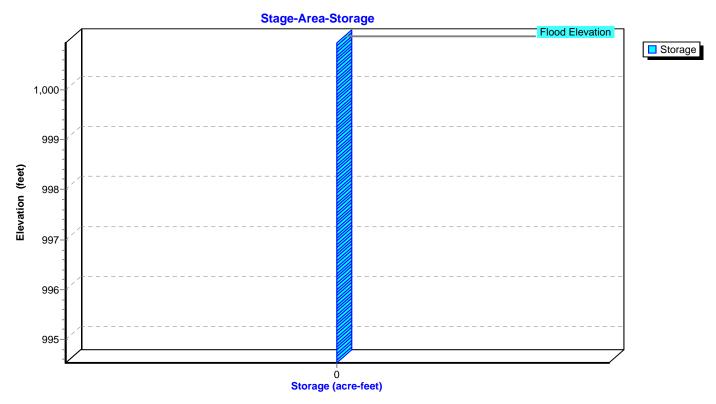
Pond 51P: ROOF DRAINS TO BASIN



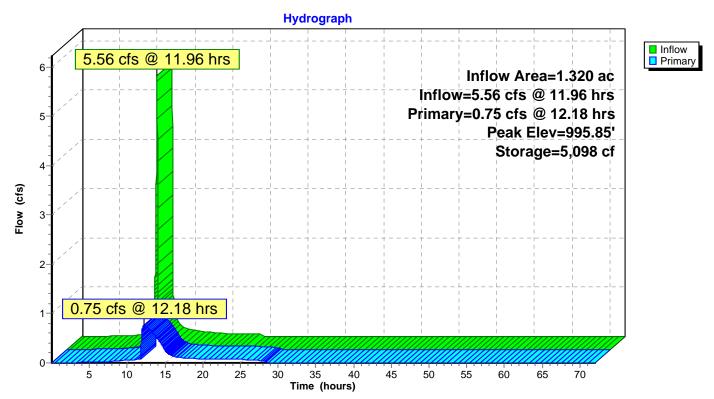
Pond 51P: ROOF DRAINS TO BASIN



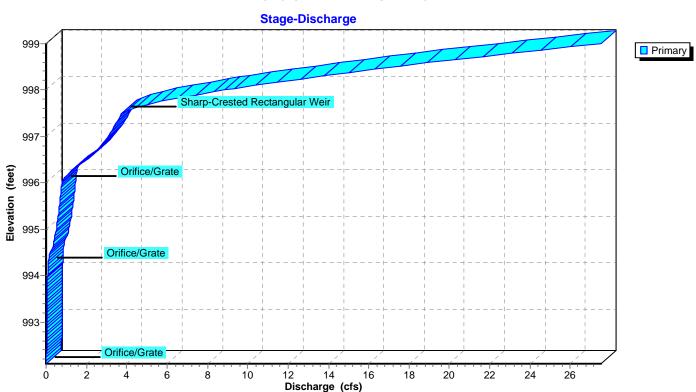
Pond 51P: ROOF DRAINS TO BASIN



Pond 52P: DETENTION BASIN

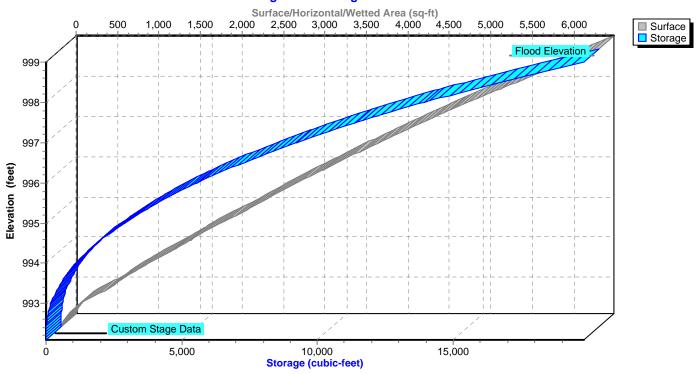


Pond 52P: DETENTION BASIN

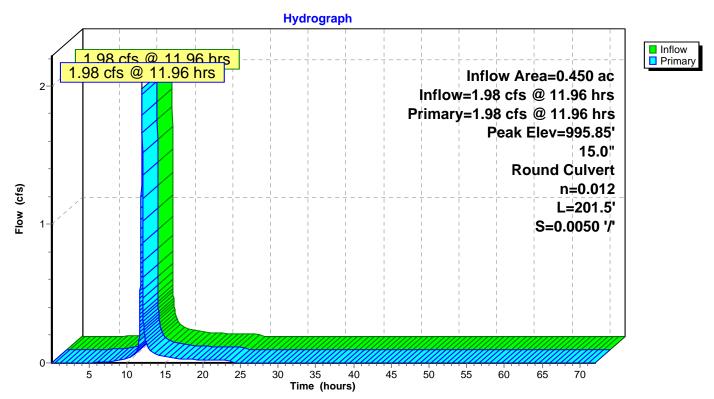


Pond 52P: DETENTION BASIN

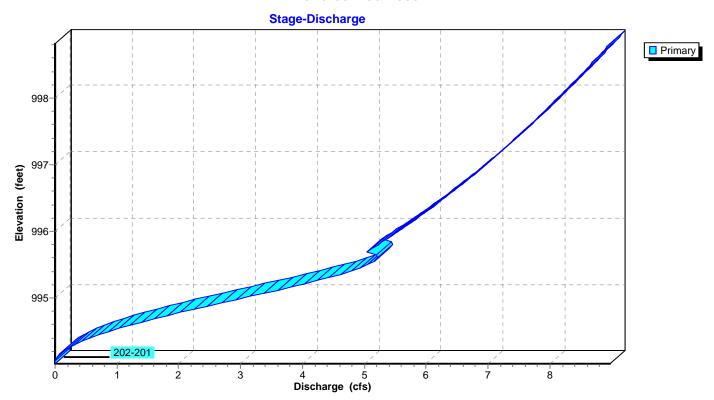
Stage-Area-Storage



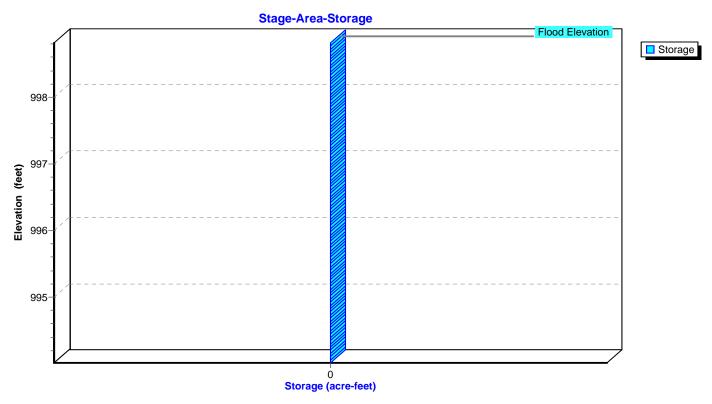
Pond 53P: 301-300



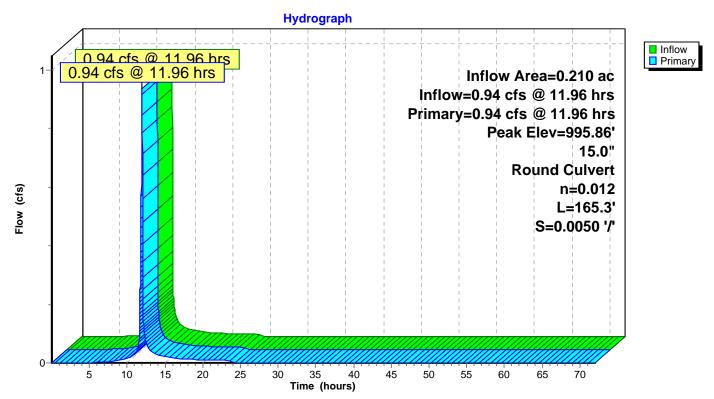
Pond 53P: 301-300



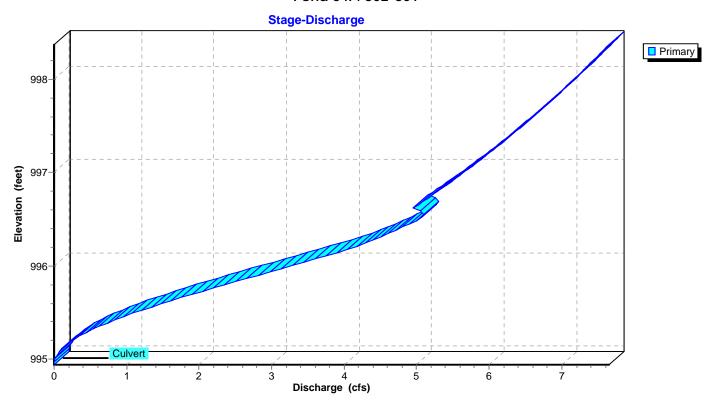
Pond 53P: 301-300



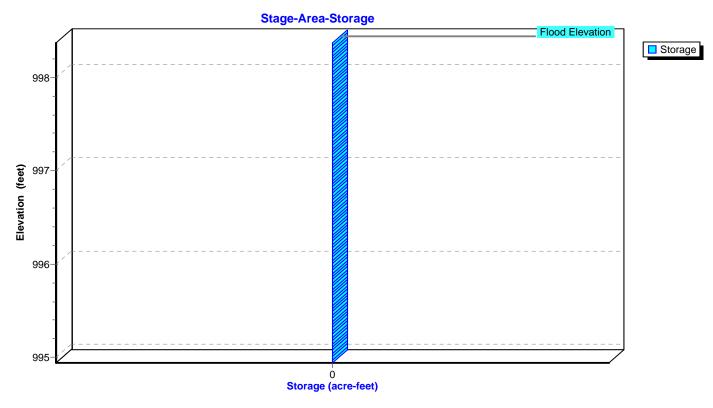
Pond 54P: 302-301



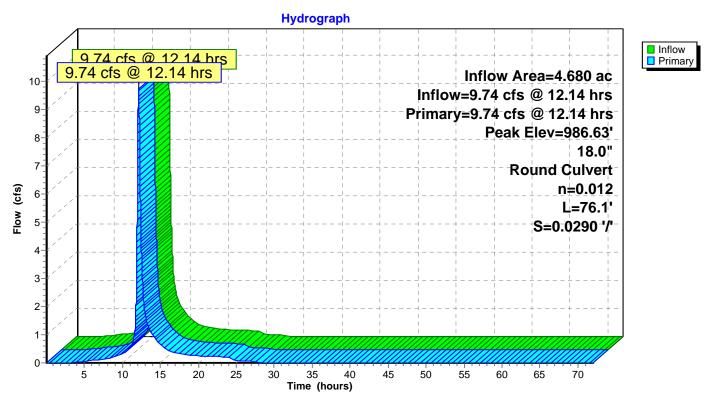
Pond 54P: 302-301



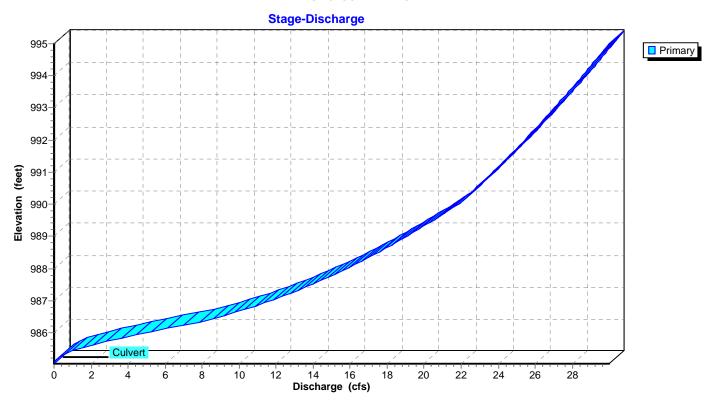
Pond 54P: 302-301



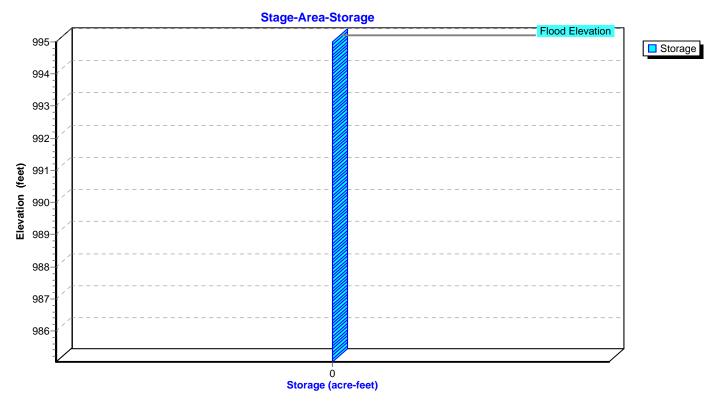
Pond 55P: 11-10



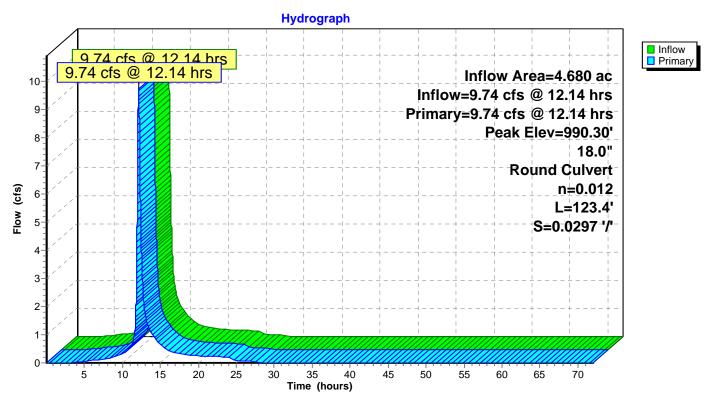
Pond 55P: 11-10



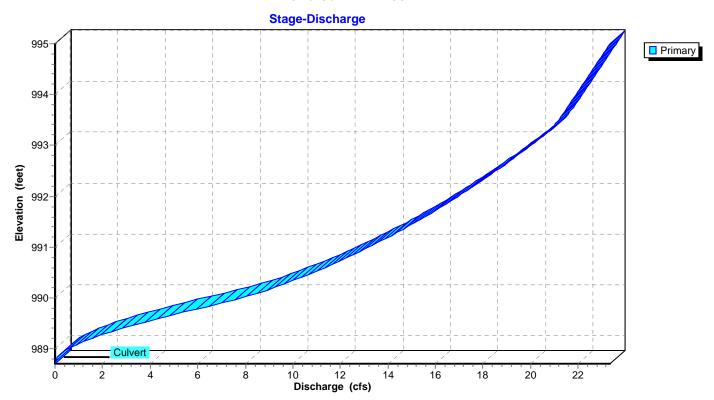




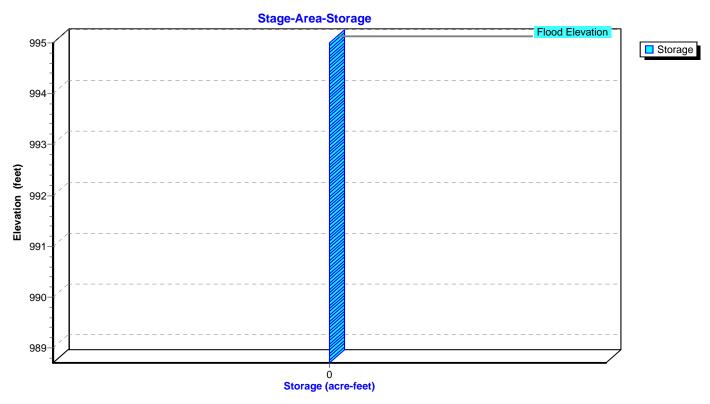
Pond 56P: 11 - 100 MH



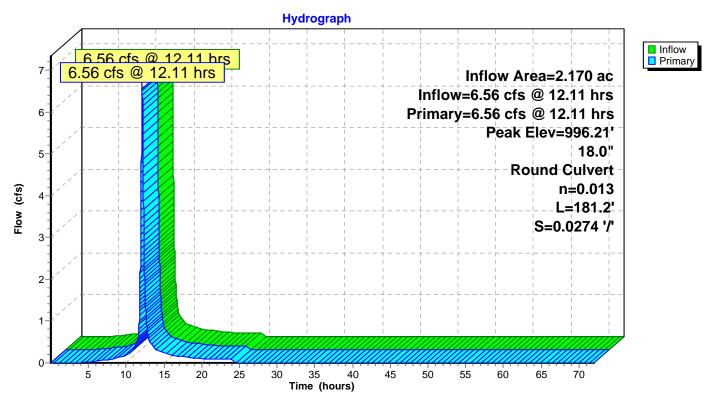
Pond 56P: 11 - 100 MH



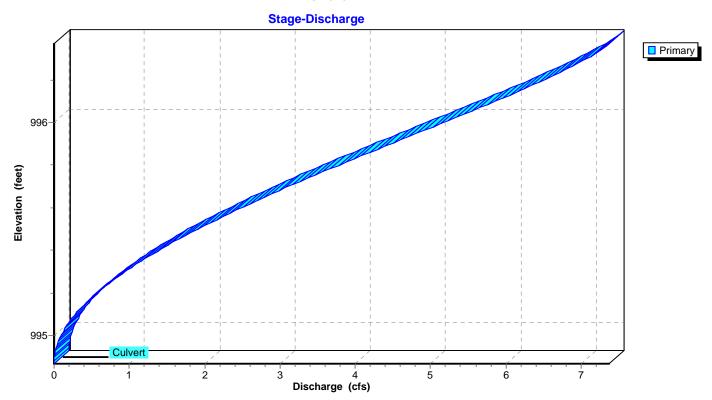
Pond 56P: 11 - 100 MH



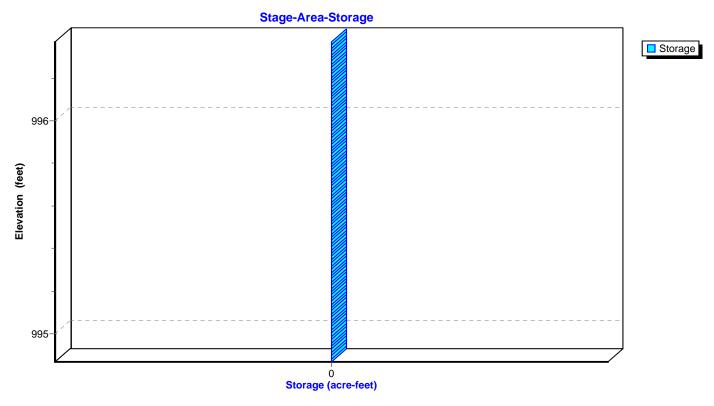
Pond 57P: 12-11



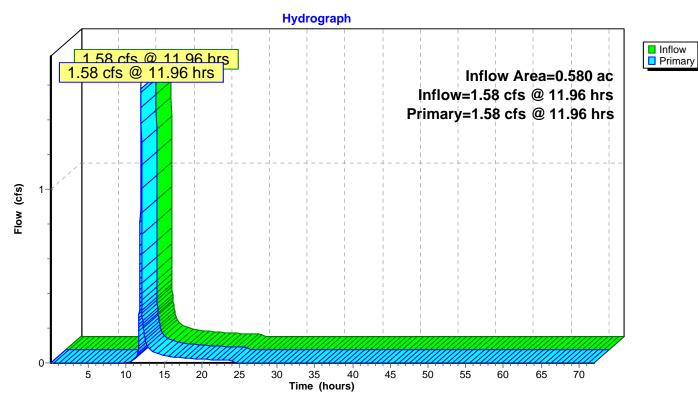
Pond 57P: 12-11



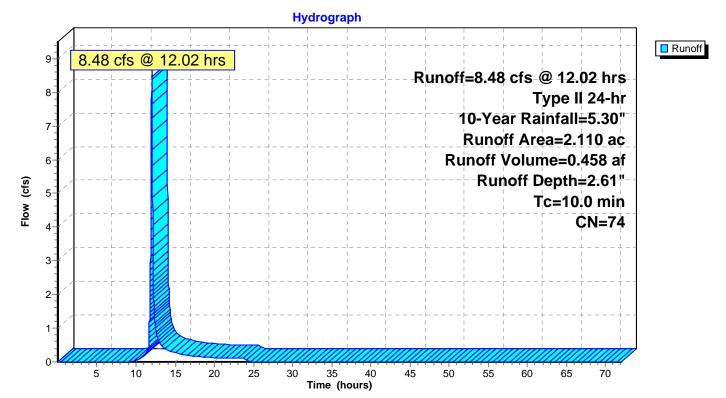
Pond 57P: 12-11



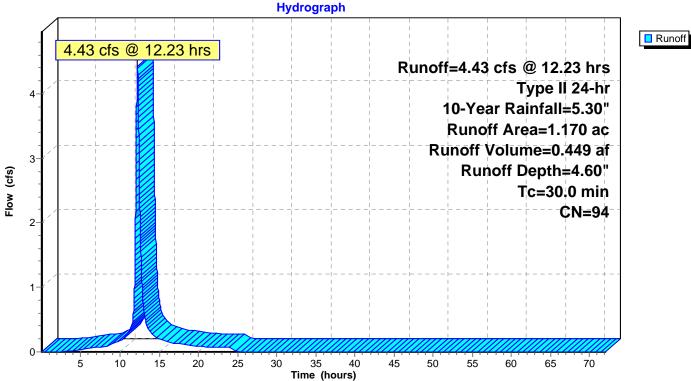
Link 90L: BYPASS AREAS



Subcatchment 1S: EXISTING CONDITIONS

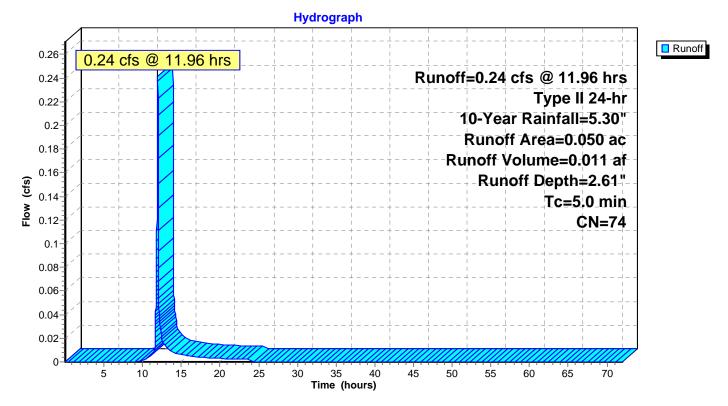


Subcatchment 2S: AREA A

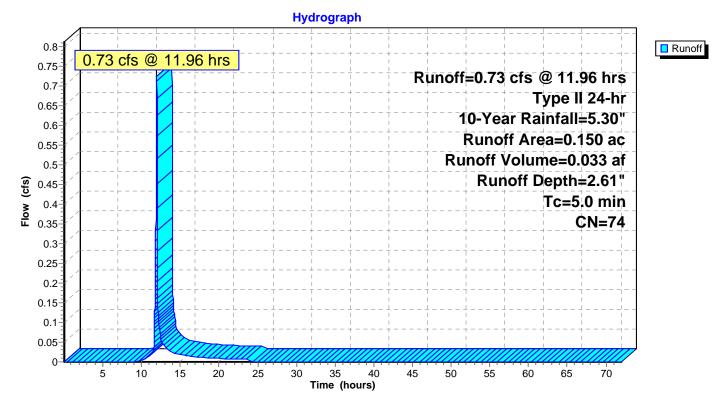




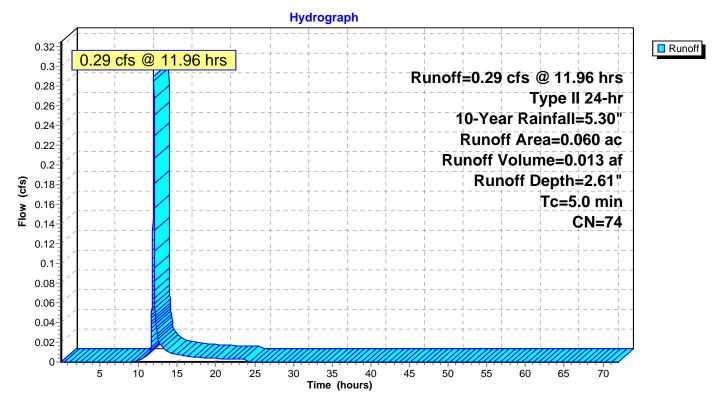
Subcatchment 3S: AREA B



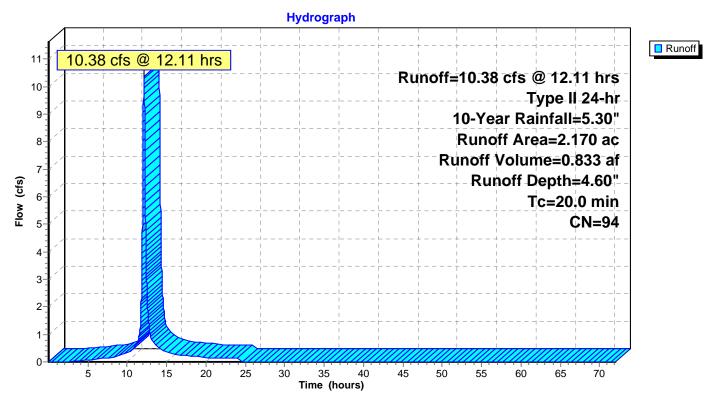
Subcatchment 4S: AREA C



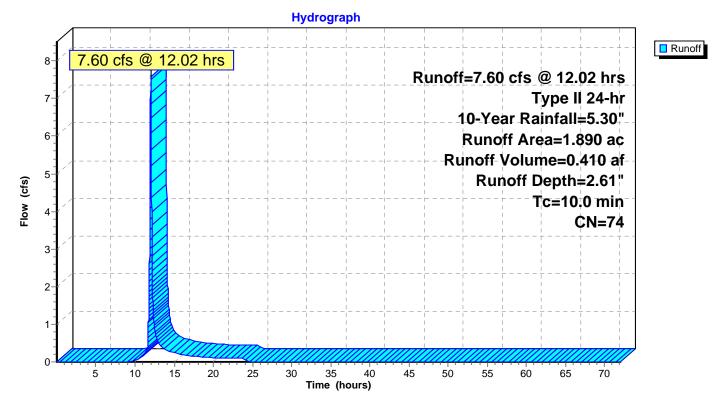
Subcatchment 5S: AREA D



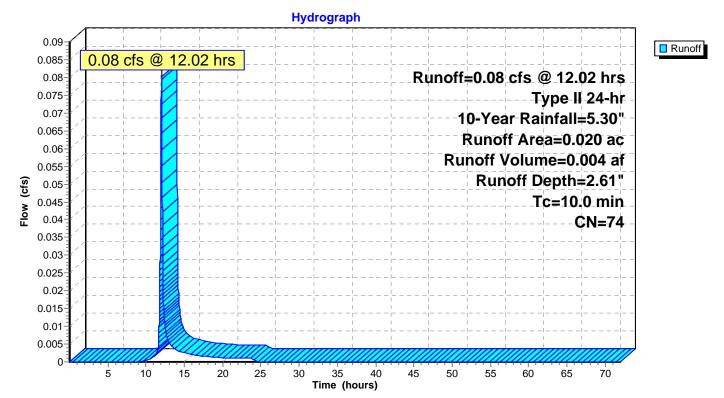
Subcatchment 6S: AREA E



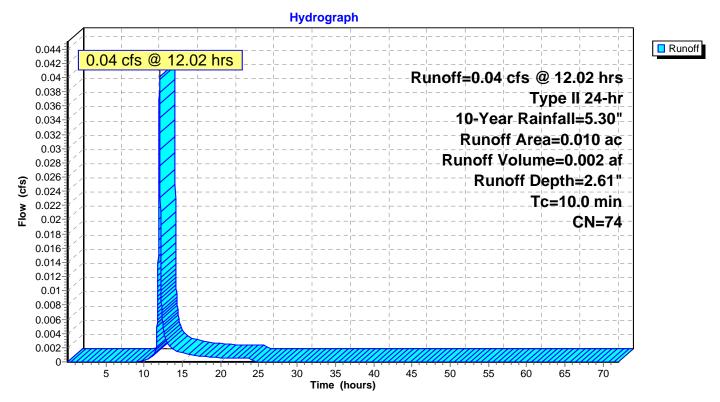
Subcatchment 7S: AREA F



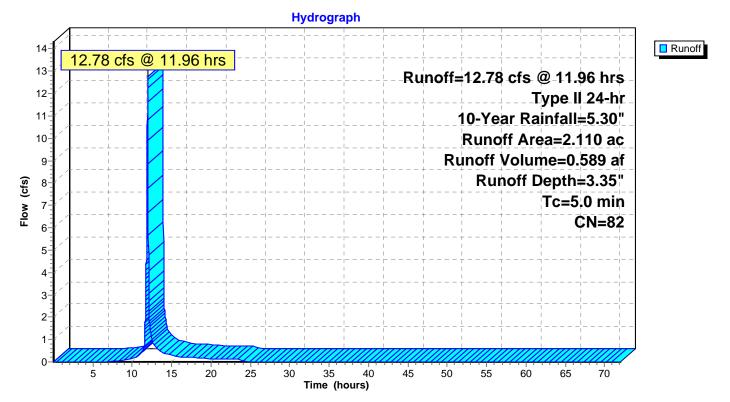
Subcatchment 8S: AREA G



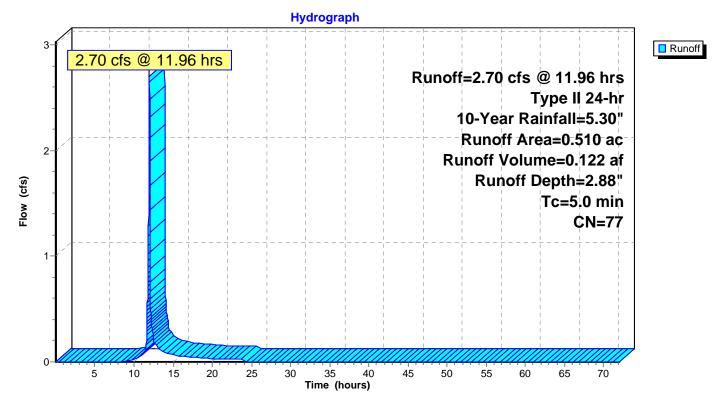
Subcatchment 9S: AREA H



Subcatchment 10S: PROPOSED CONDITIONS

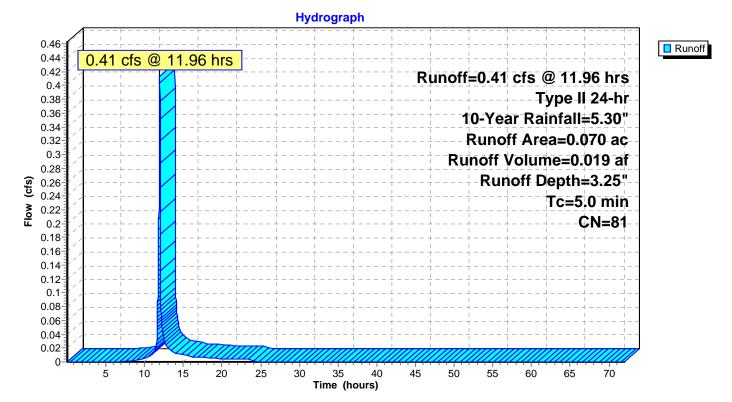


Subcatchment 60S: AREA 6

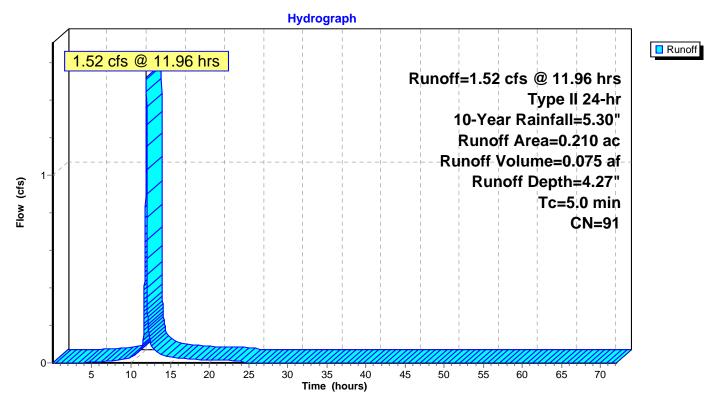


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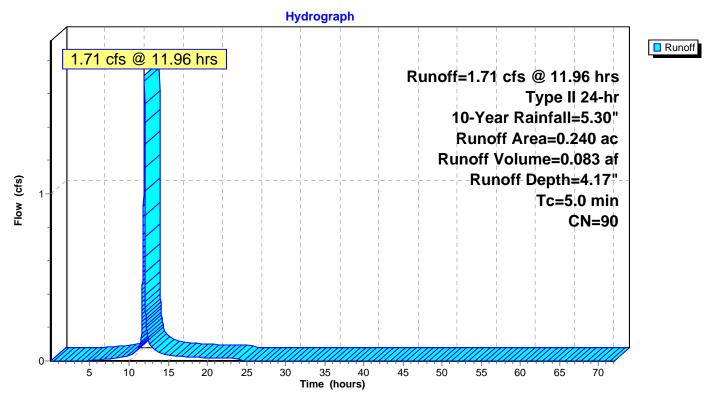
Subcatchment 61S: AREA 7



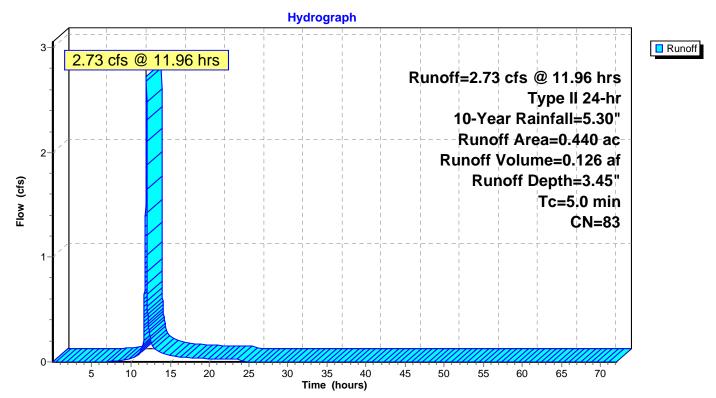
Subcatchment 62S: AREA 1



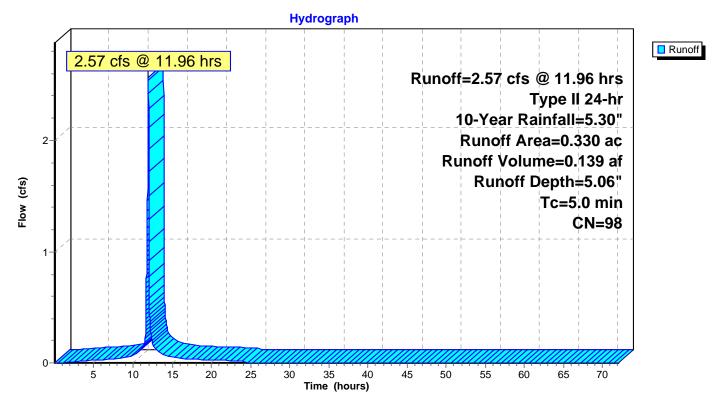
Subcatchment 63S: AREA 2



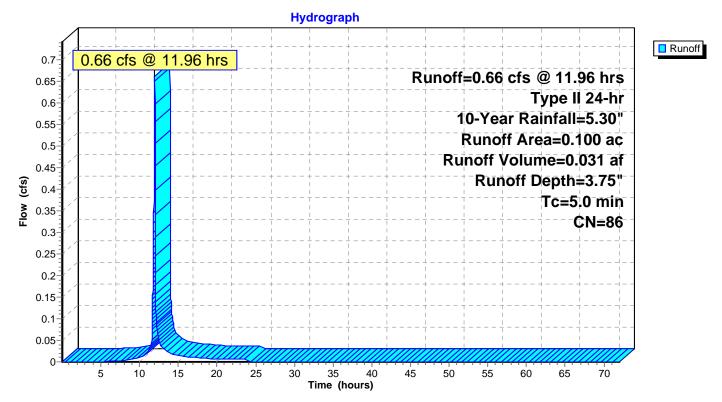
Subcatchment 64S: AREA 3



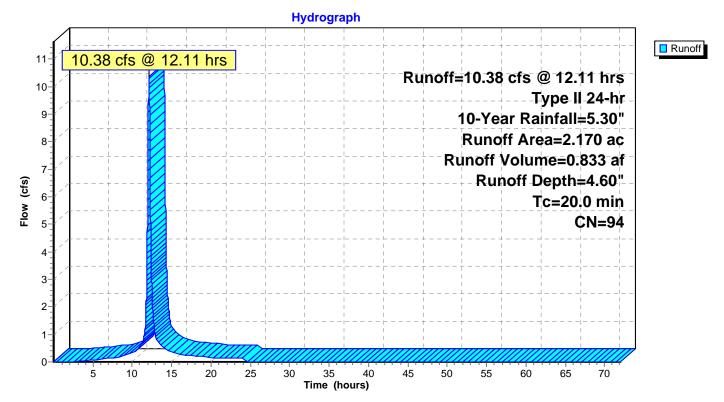
Subcatchment 65S: AREA 4



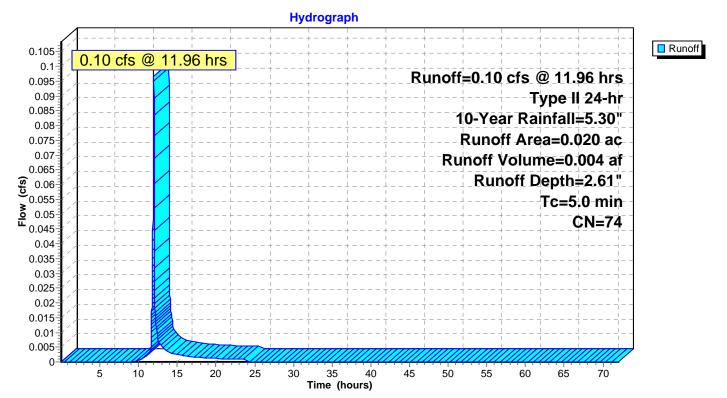
Subcatchment 66S: AREA 5



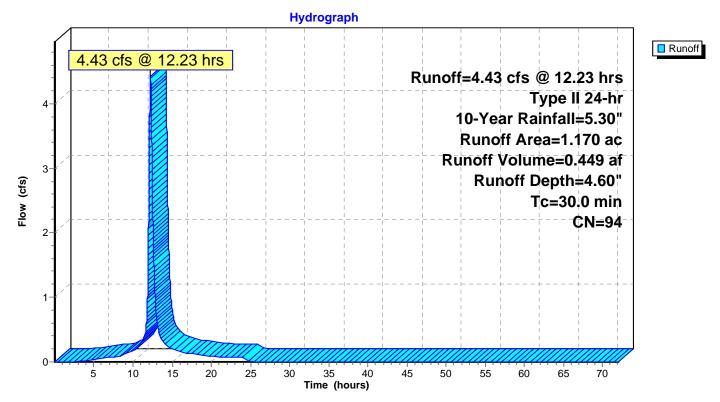
Subcatchment 67S: OFFSITE TO CI 12



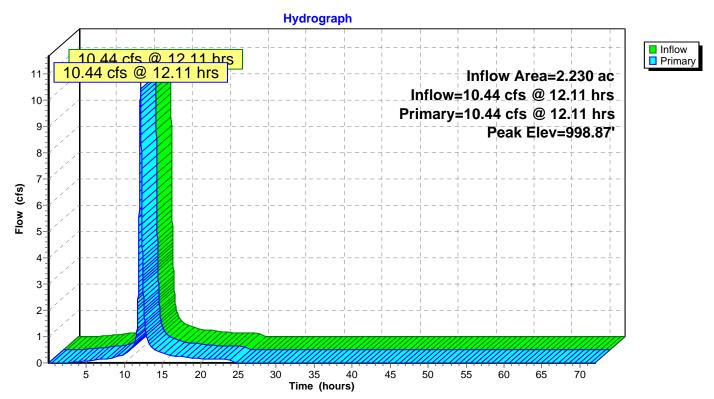
Subcatchment 68S: AREA TO AI 11



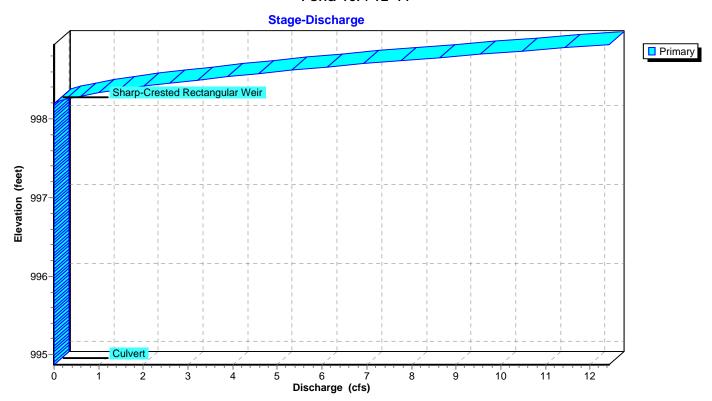
Subcatchment 69S: OFFSITE TO BMP



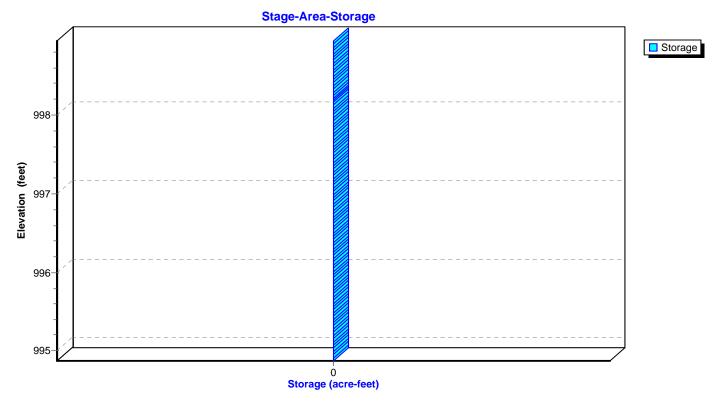
Pond 10P: 12-11



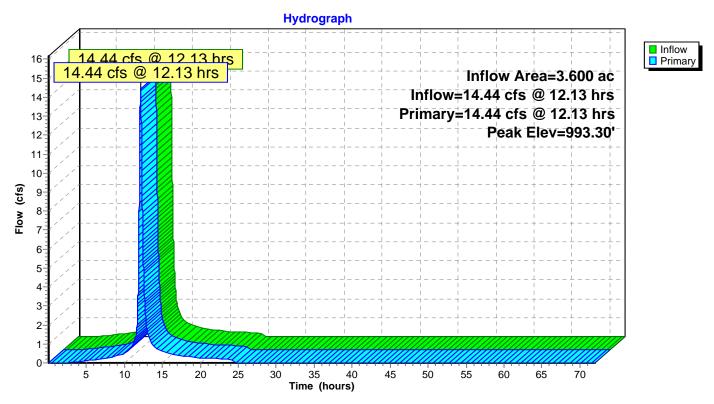
Pond 10P: 12-11



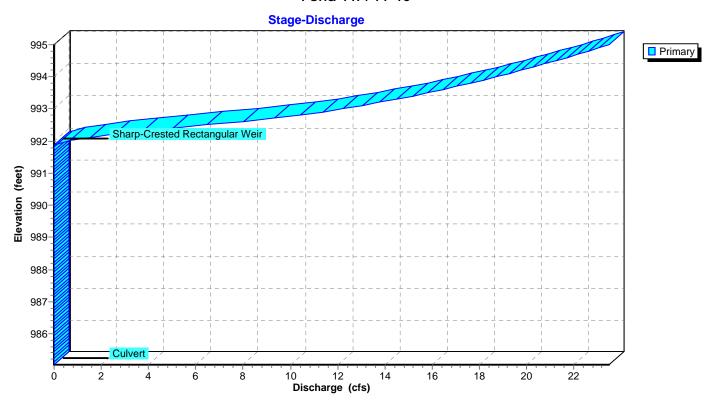




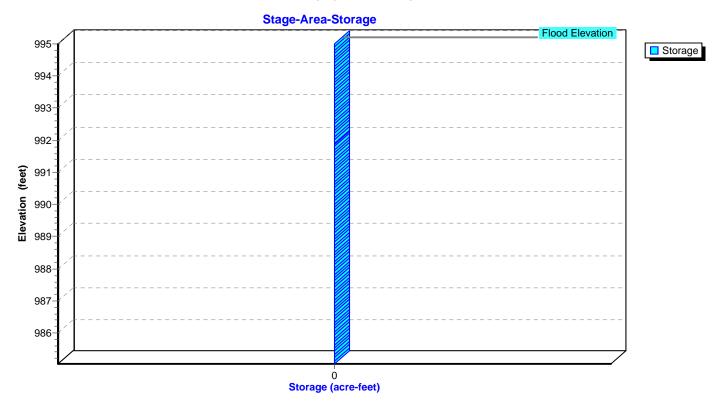
Pond 11P: 11-10



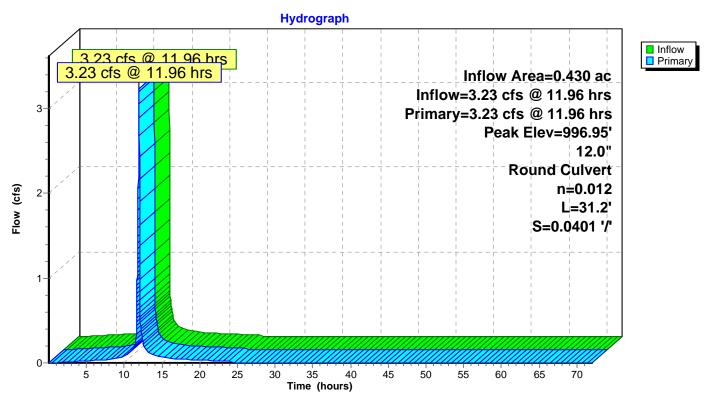
Pond 11P: 11-10



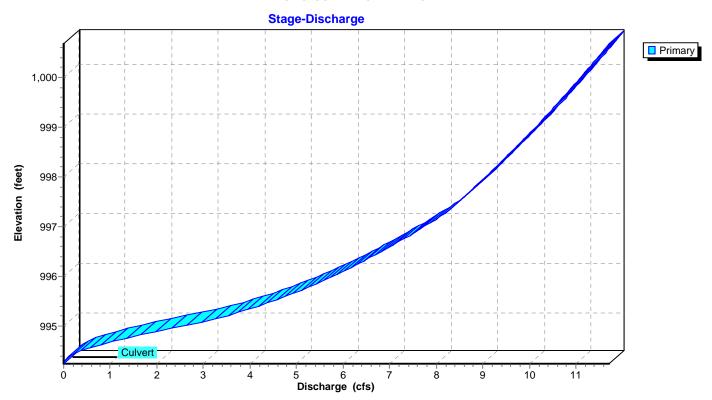
Pond 11P: 11-10



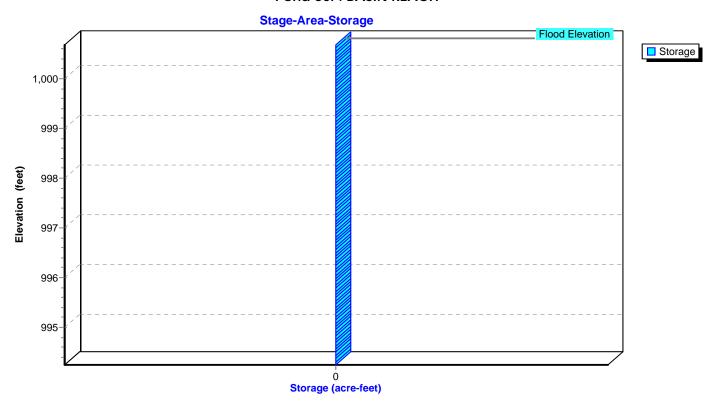
Pond 50P: BASIN REACH



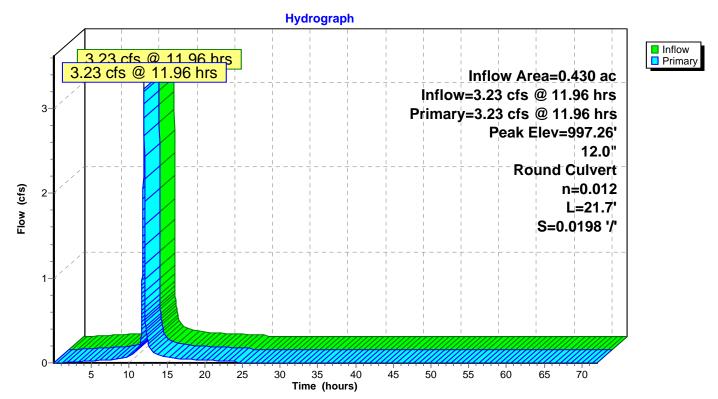
Pond 50P: BASIN REACH



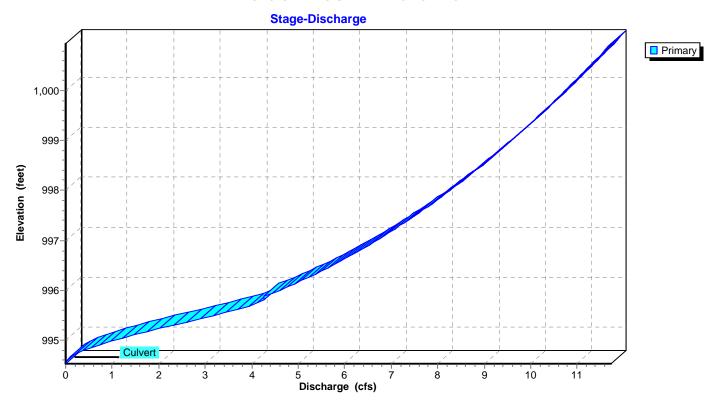
Pond 50P: BASIN REACH



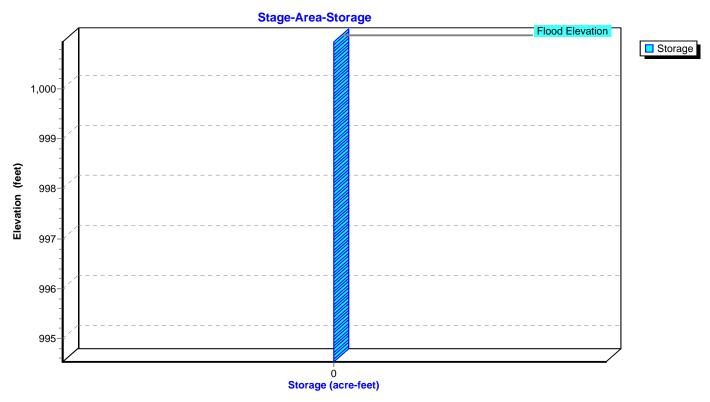
Pond 51P: ROOF DRAINS TO BASIN



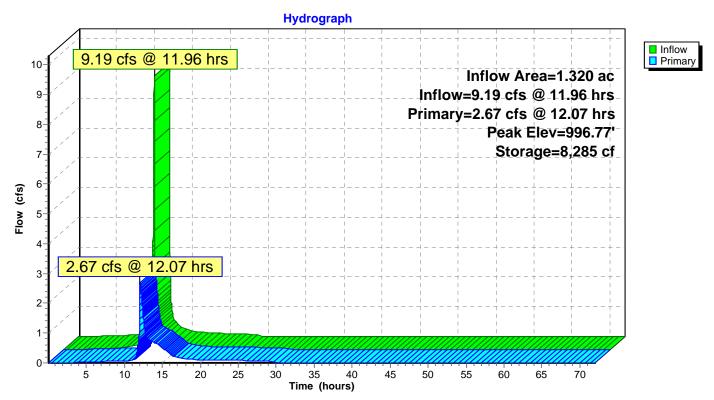
Pond 51P: ROOF DRAINS TO BASIN



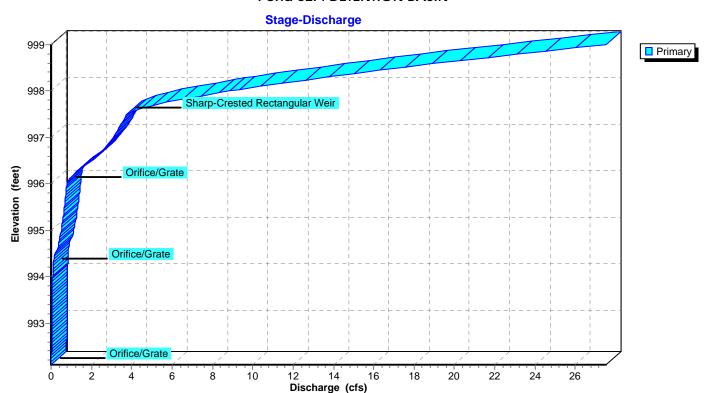
Pond 51P: ROOF DRAINS TO BASIN



Pond 52P: DETENTION BASIN

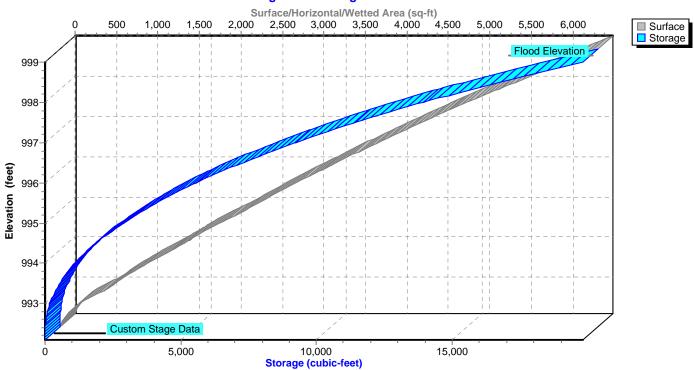


Pond 52P: DETENTION BASIN

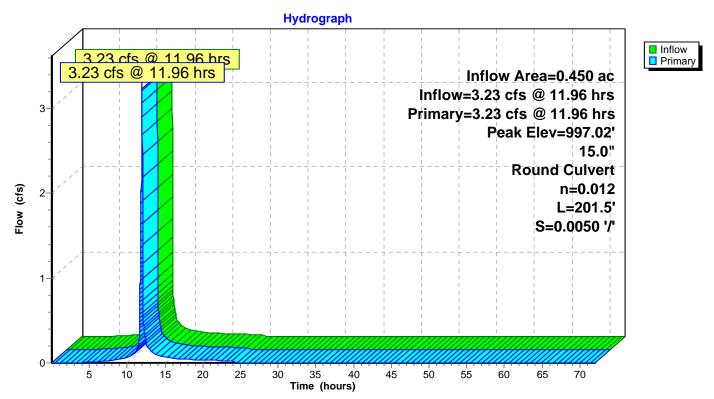


Pond 52P: DETENTION BASIN

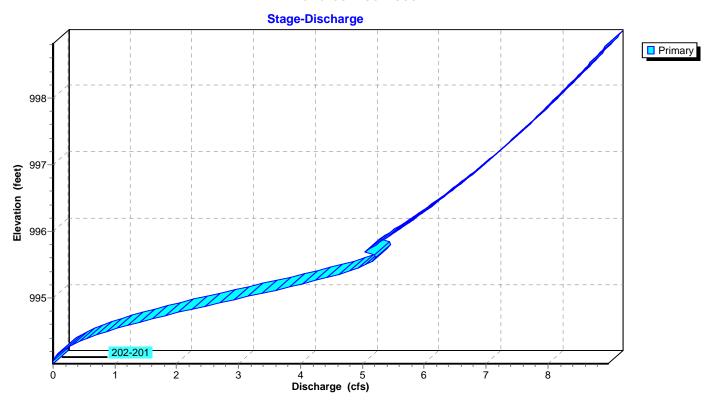
Stage-Area-Storage



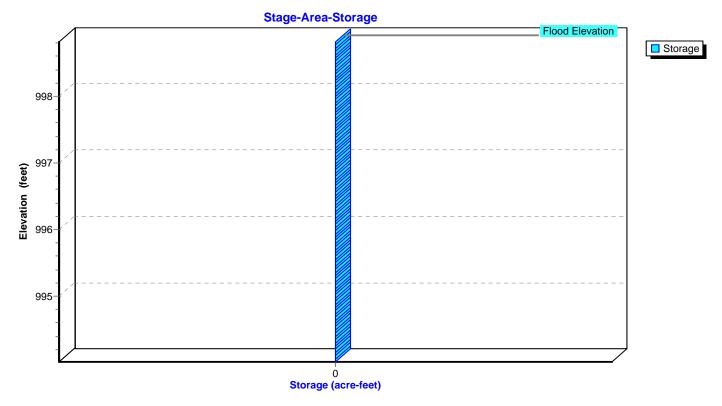
Pond 53P: 301-300



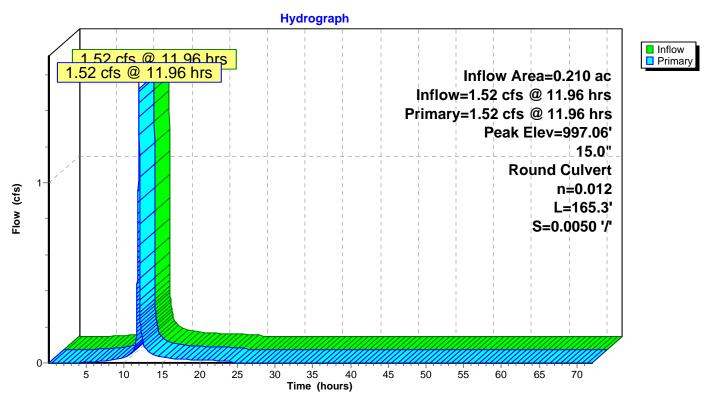
Pond 53P: 301-300



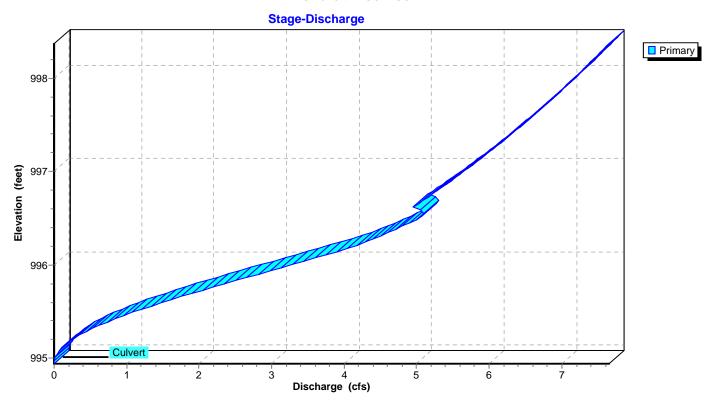
Pond 53P: 301-300



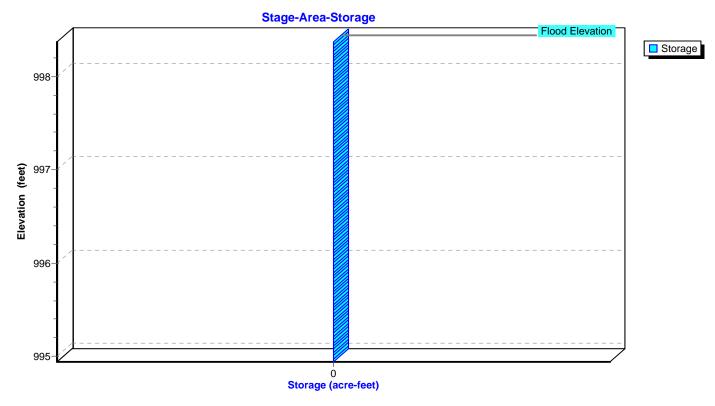
Pond 54P: 302-301



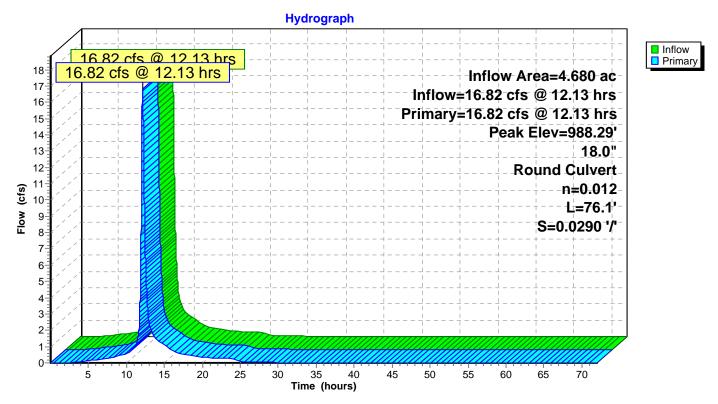
Pond 54P: 302-301



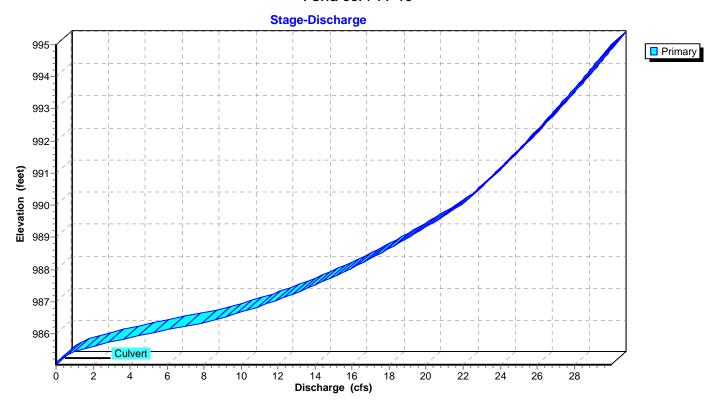
Pond 54P: 302-301



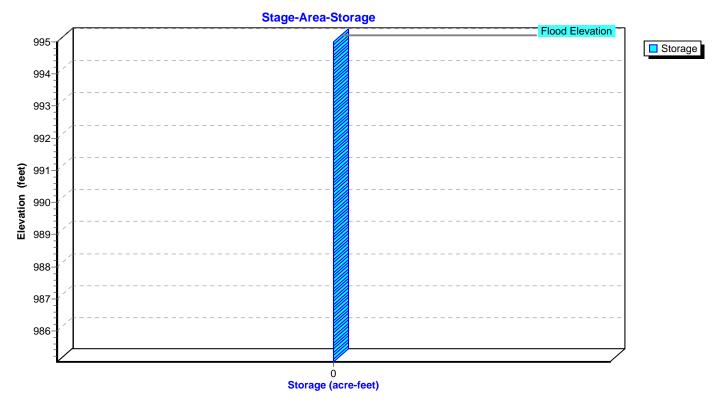
Pond 55P: 11-10



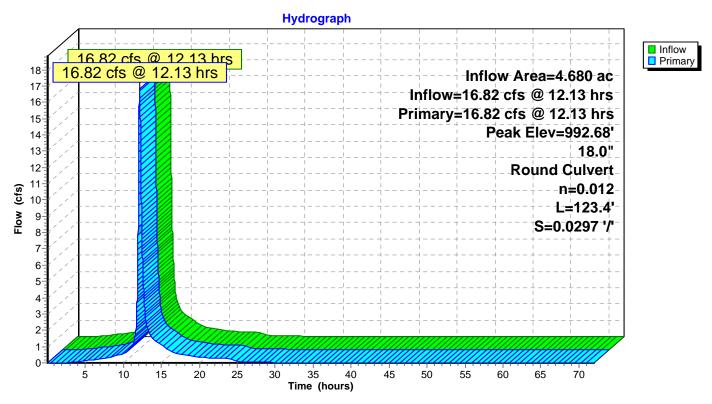
Pond 55P: 11-10



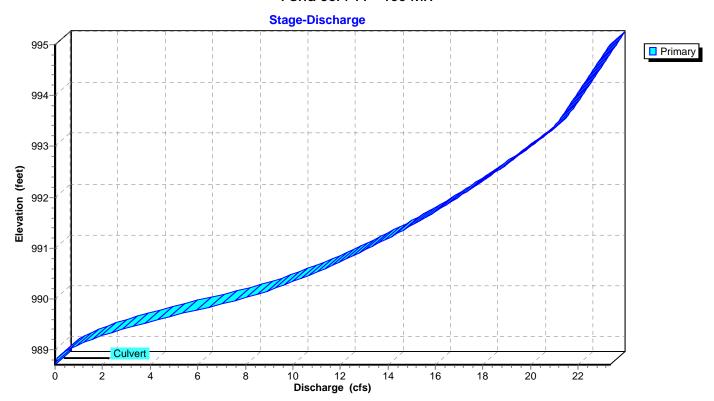
Pond 55P: 11-10



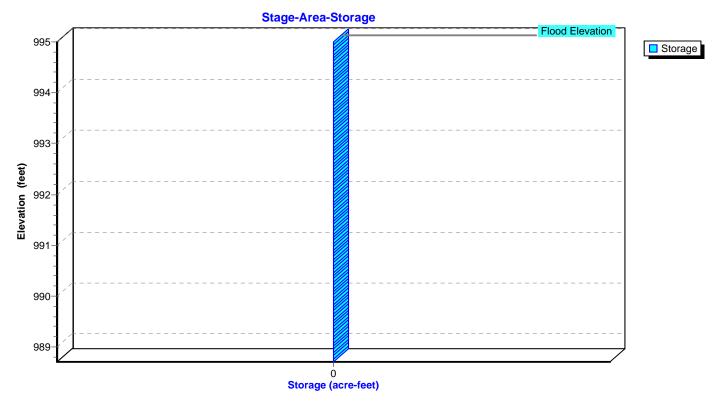
Pond 56P: 11 - 100 MH



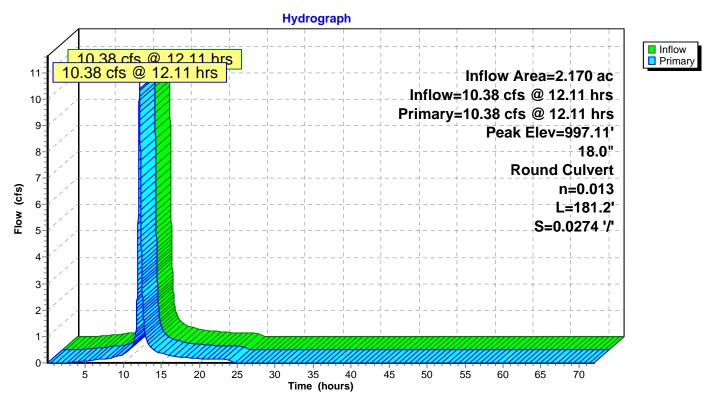
Pond 56P: 11 - 100 MH



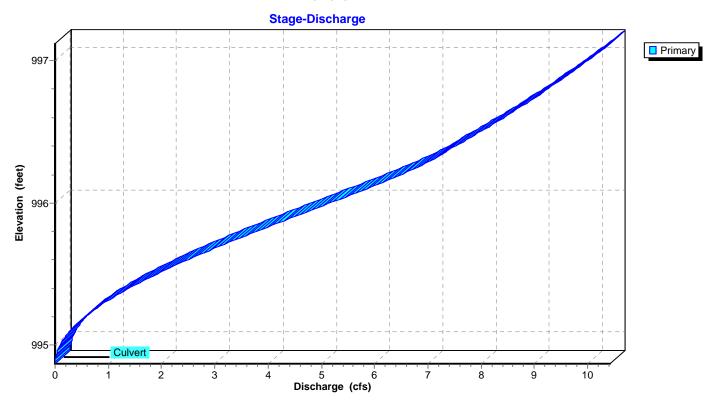
Pond 56P: 11 - 100 MH



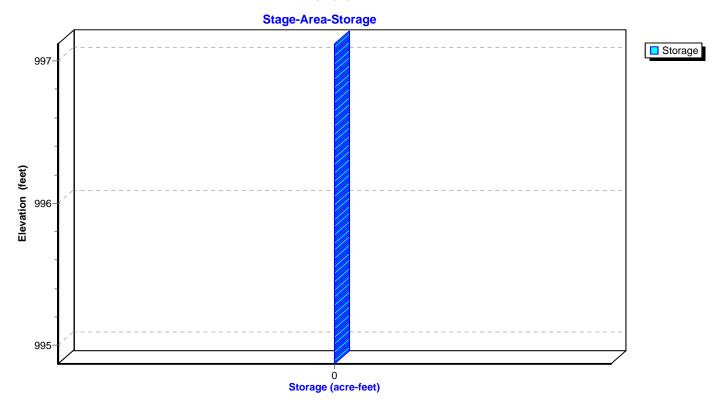
Pond 57P: 12-11



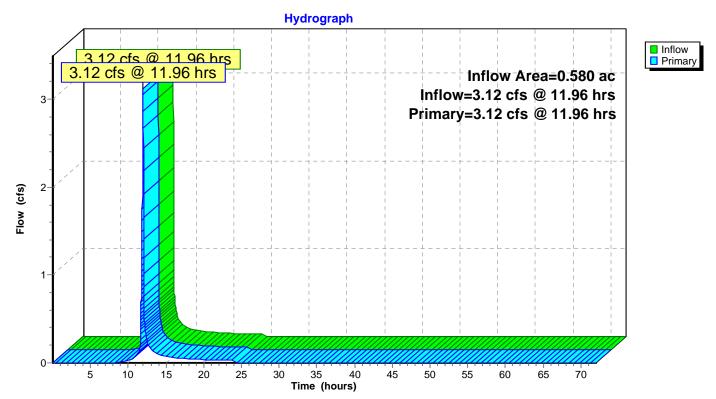
Pond 57P: 12-11



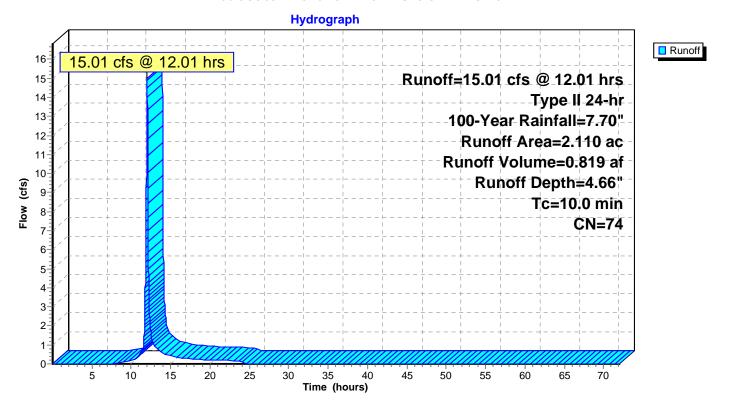
Pond 57P: 12-11



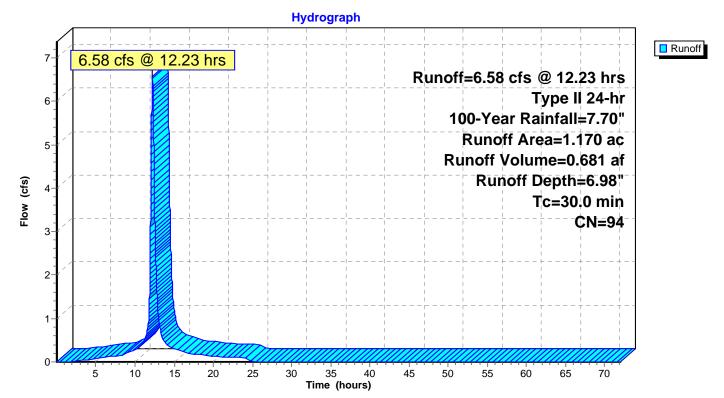
Link 90L: BYPASS AREAS



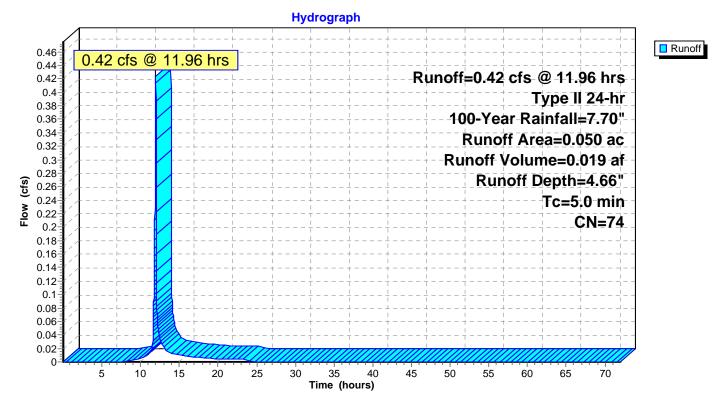
Subcatchment 1S: EXISTING CONDITIONS



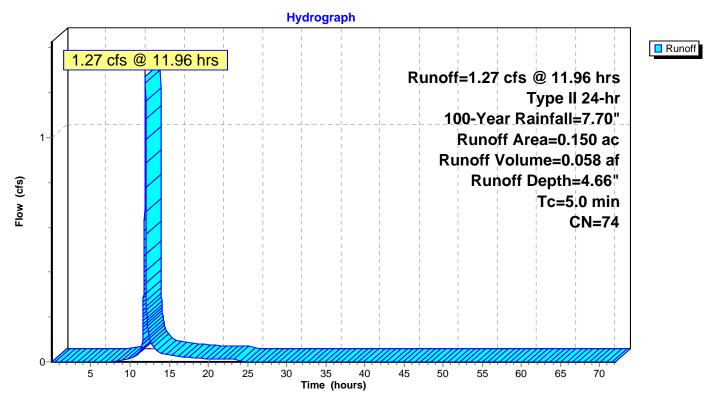
Subcatchment 2S: AREA A



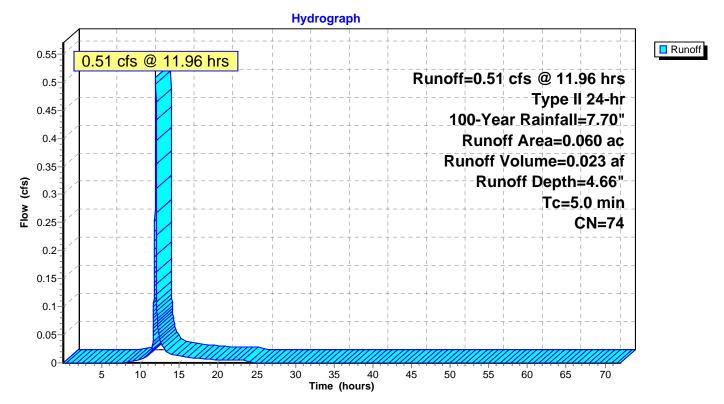
Subcatchment 3S: AREA B



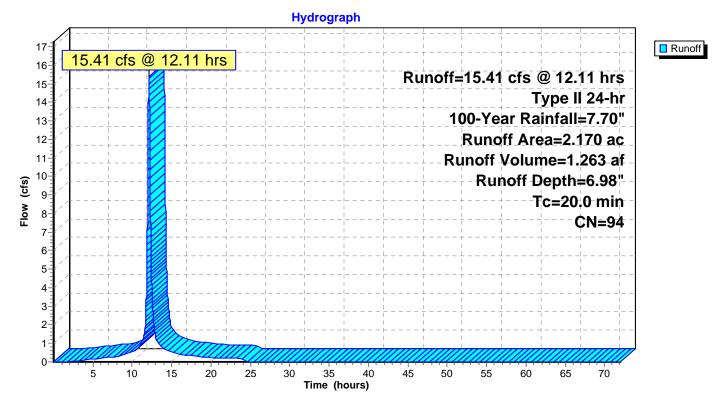
Subcatchment 4S: AREA C



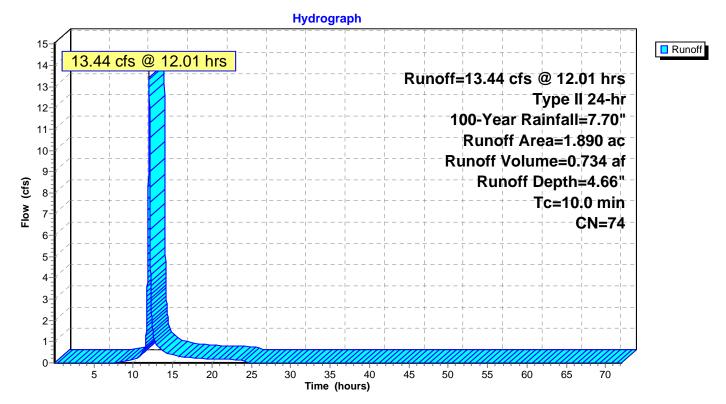
Subcatchment 5S: AREA D



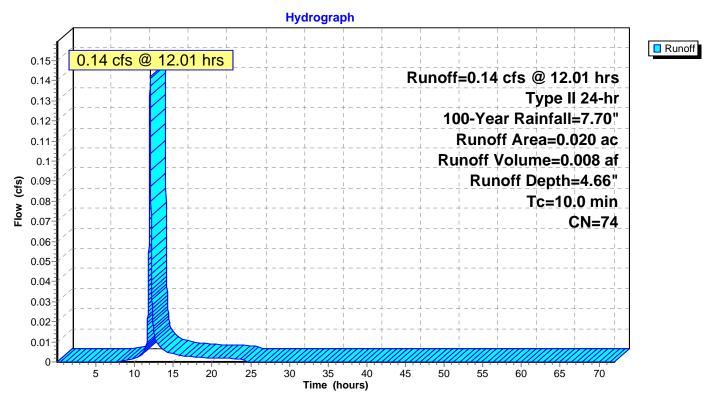
Subcatchment 6S: AREA E



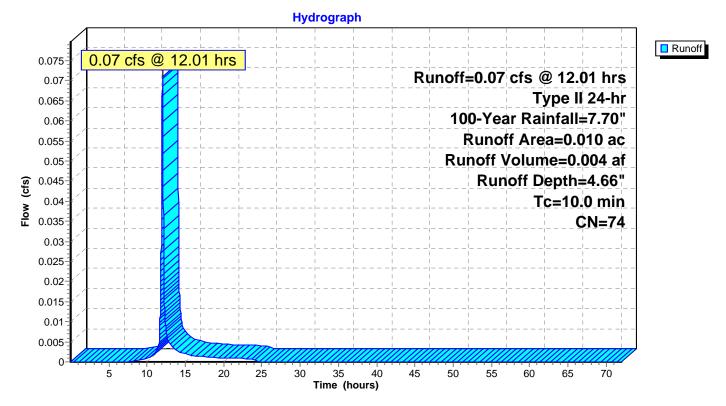
Subcatchment 7S: AREA F



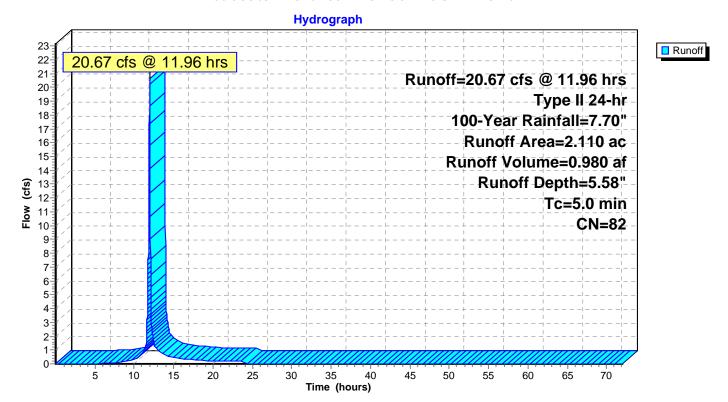
Subcatchment 8S: AREA G



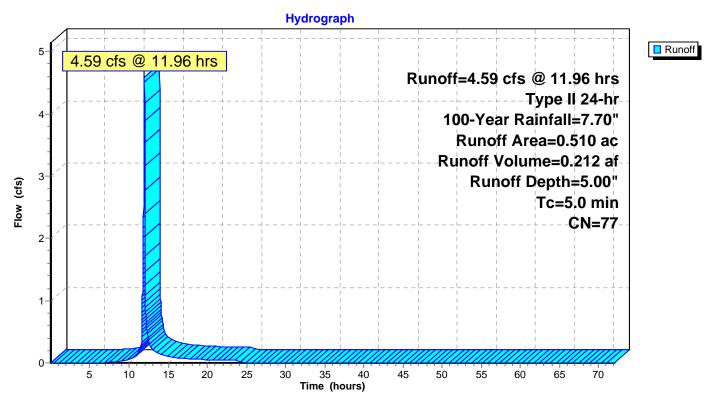
Subcatchment 9S: AREA H



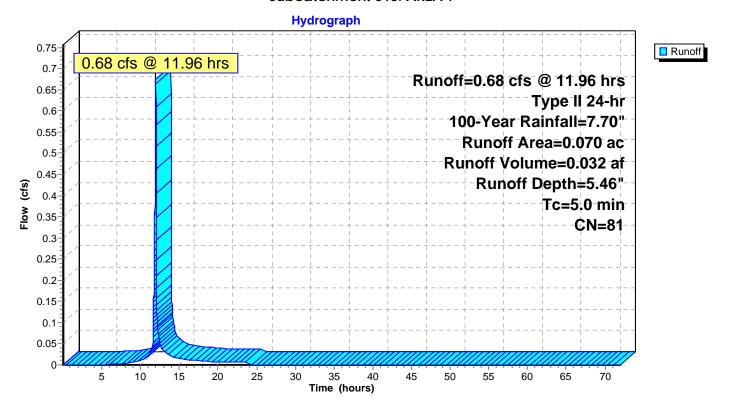
Subcatchment 10S: PROPOSED CONDITIONS



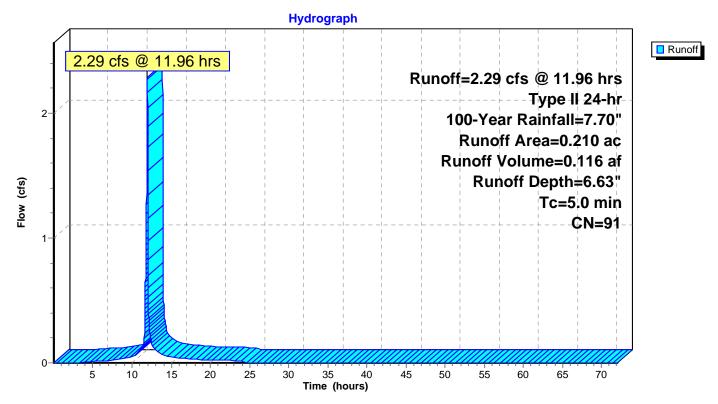
Subcatchment 60S: AREA 6



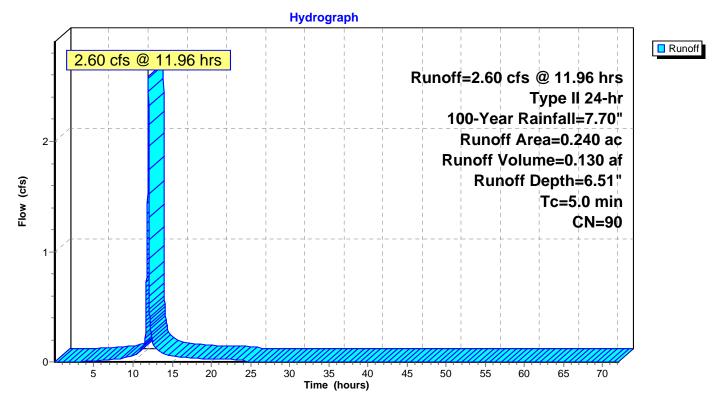
Subcatchment 61S: AREA 7



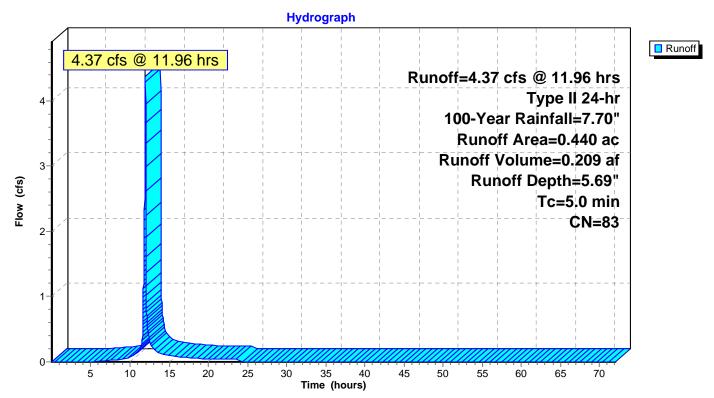
Subcatchment 62S: AREA 1



Subcatchment 63S: AREA 2



Subcatchment 64S: AREA 3



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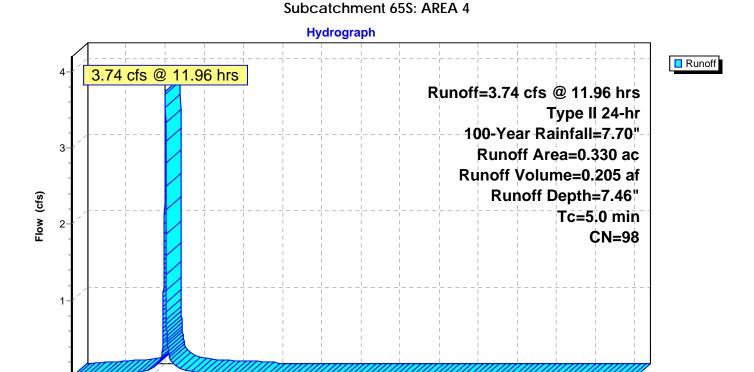
70

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10

15

25

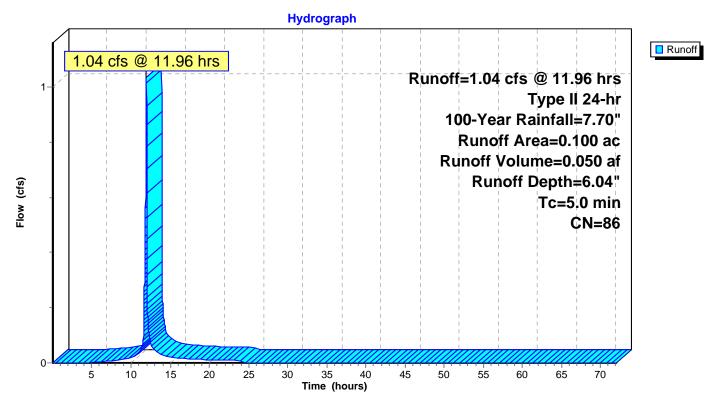


35

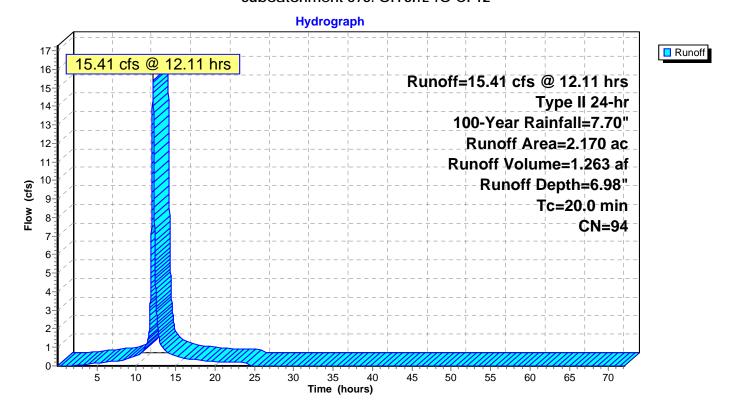
Time (hours)

45

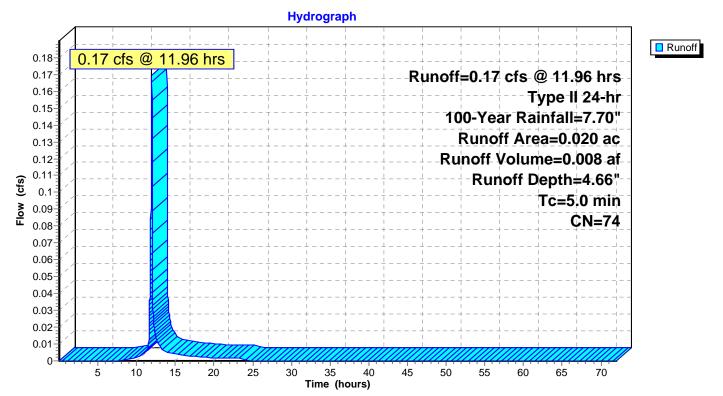
Subcatchment 66S: AREA 5



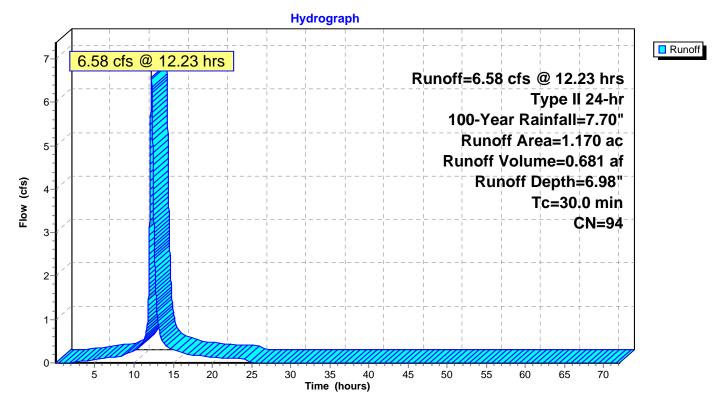
Subcatchment 67S: OFFSITE TO CI 12



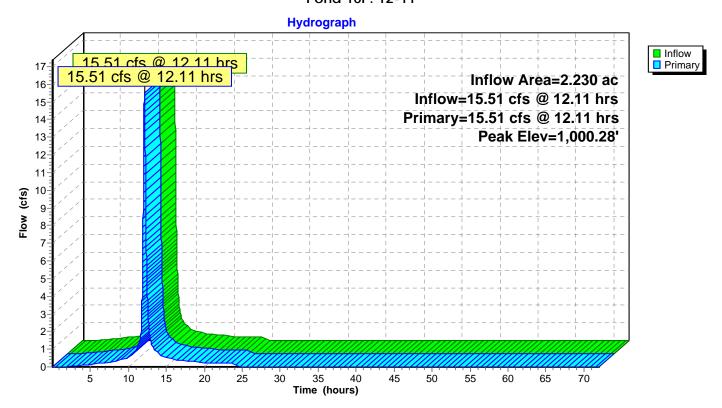
Subcatchment 68S: AREA TO AI 11



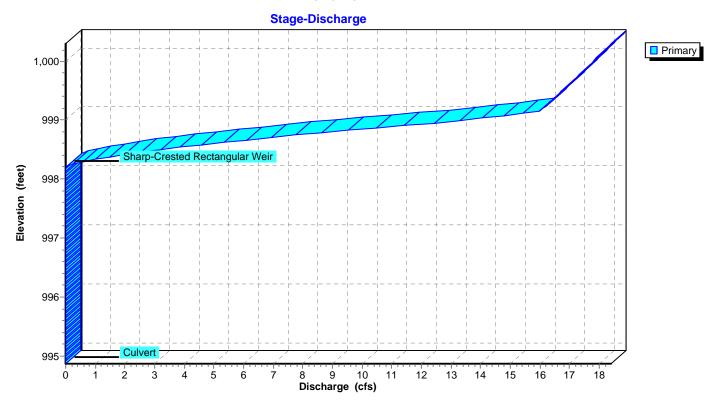
Subcatchment 69S: OFFSITE TO BMP



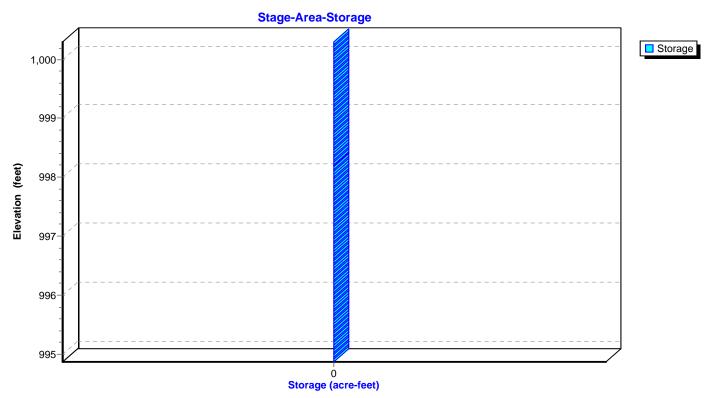
Pond 10P: 12-11



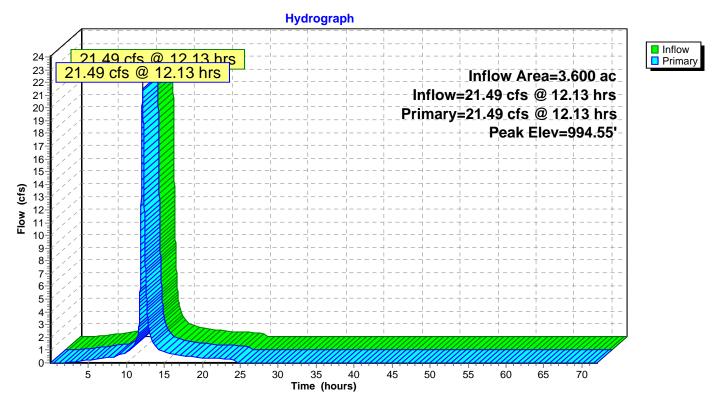
Pond 10P: 12-11



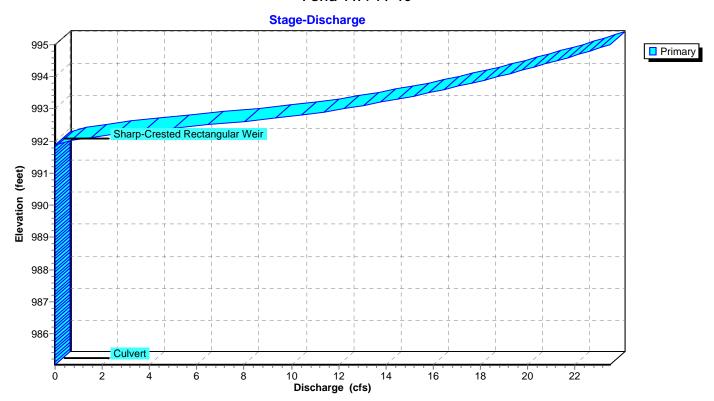
Pond 10P: 12-11



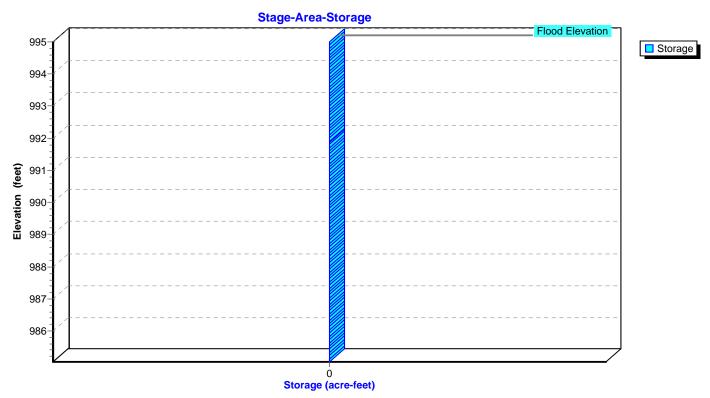
Pond 11P: 11-10



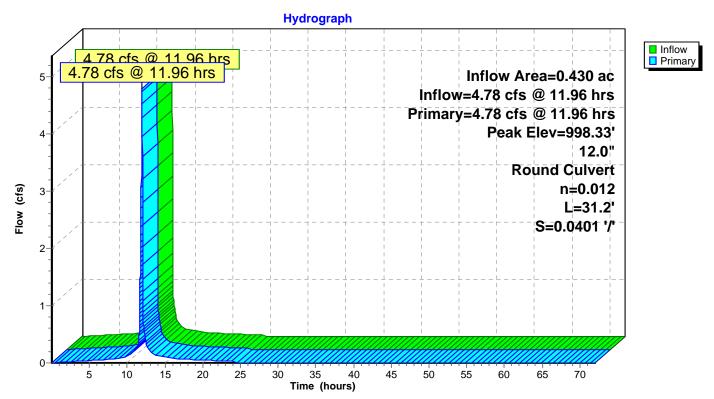
Pond 11P: 11-10



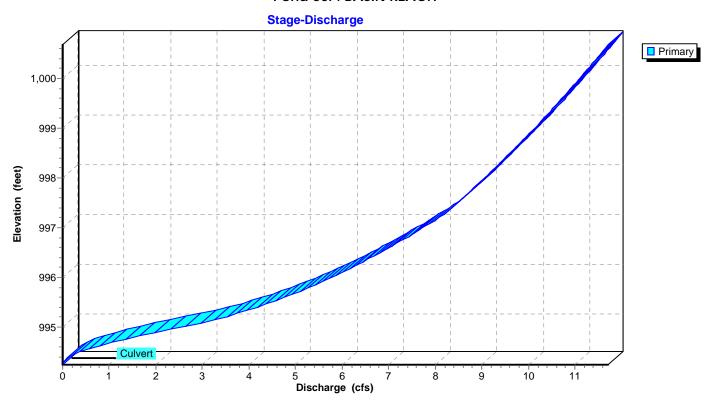
Pond 11P: 11-10



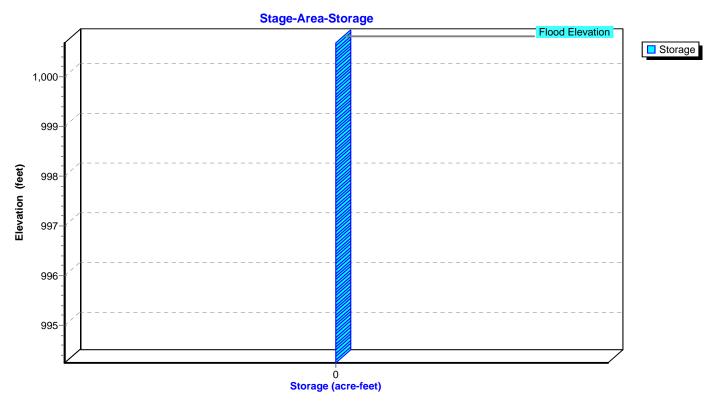
Pond 50P: BASIN REACH



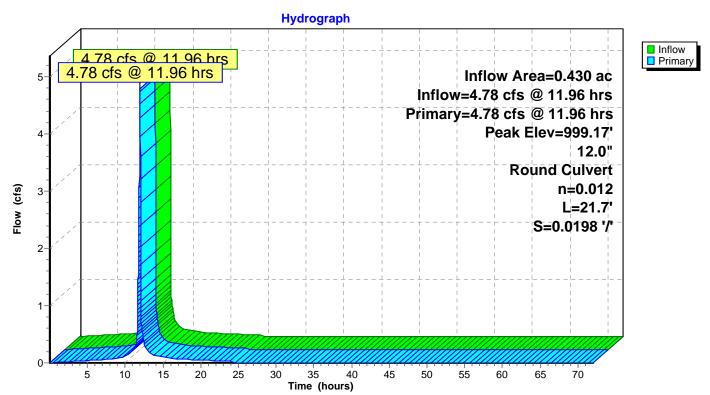
Pond 50P: BASIN REACH



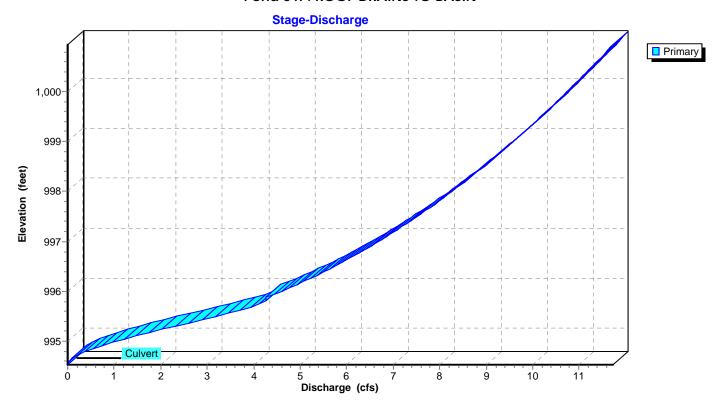
Pond 50P: BASIN REACH



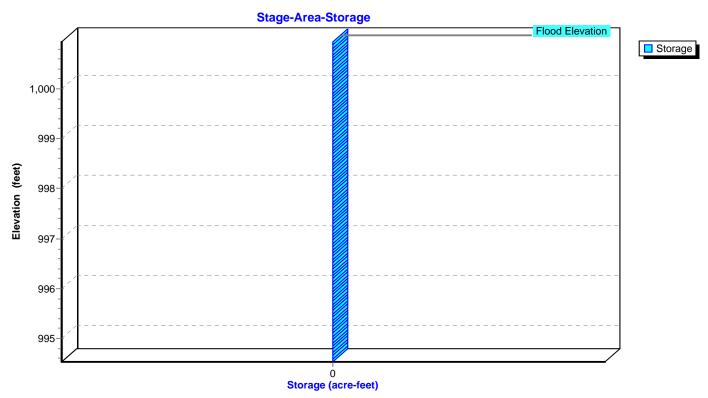
Pond 51P: ROOF DRAINS TO BASIN



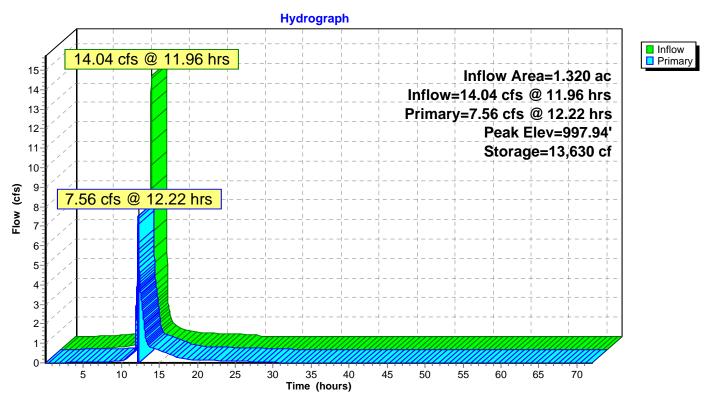
Pond 51P: ROOF DRAINS TO BASIN



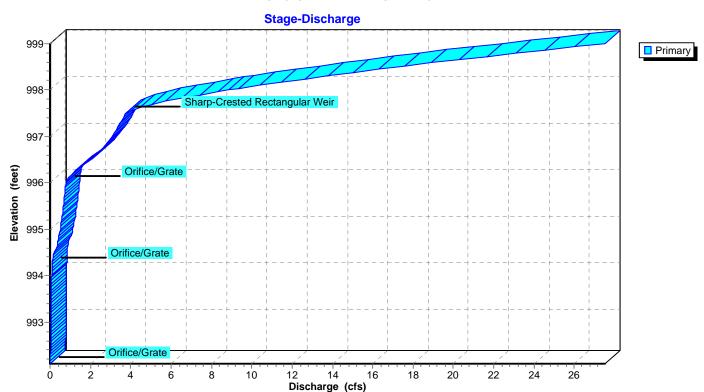
Pond 51P: ROOF DRAINS TO BASIN



Pond 52P: DETENTION BASIN

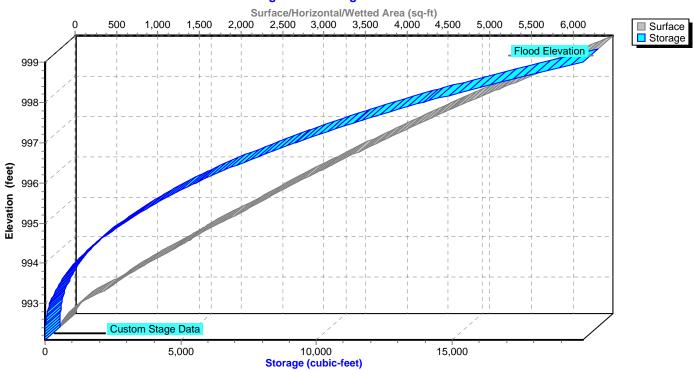


Pond 52P: DETENTION BASIN

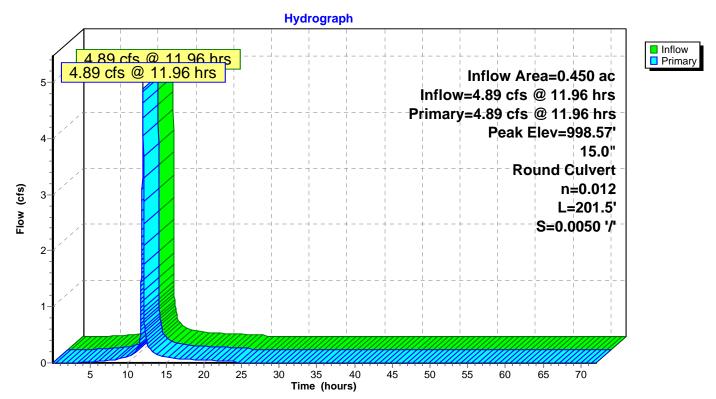


Pond 52P: DETENTION BASIN

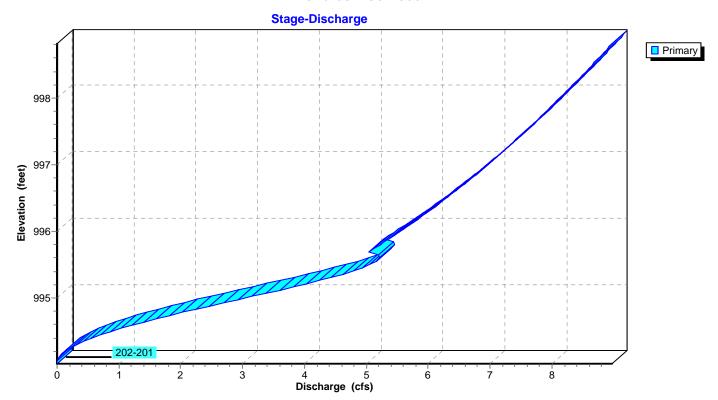
Stage-Area-Storage



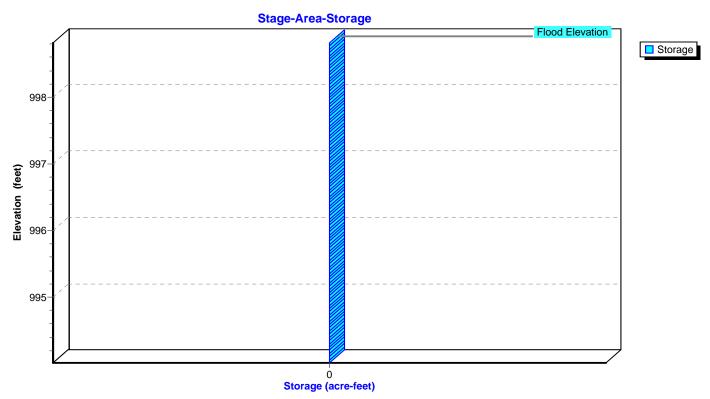
Pond 53P: 301-300



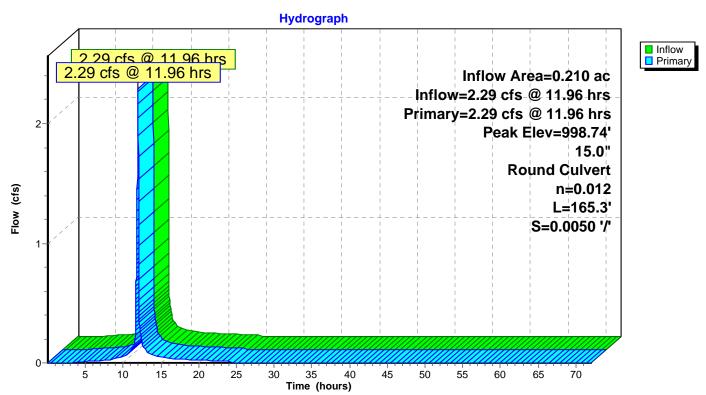
Pond 53P: 301-300



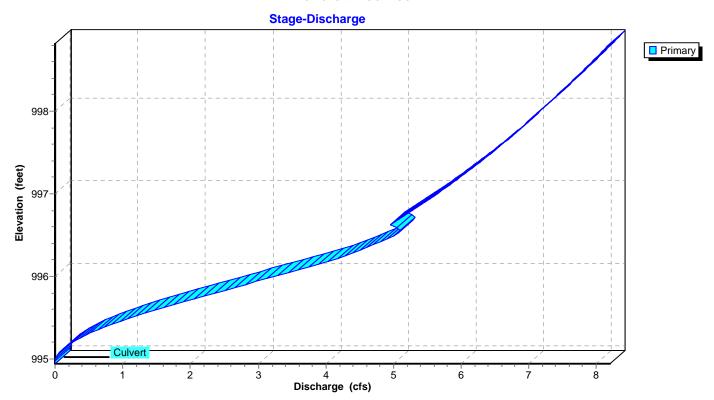
Pond 53P: 301-300



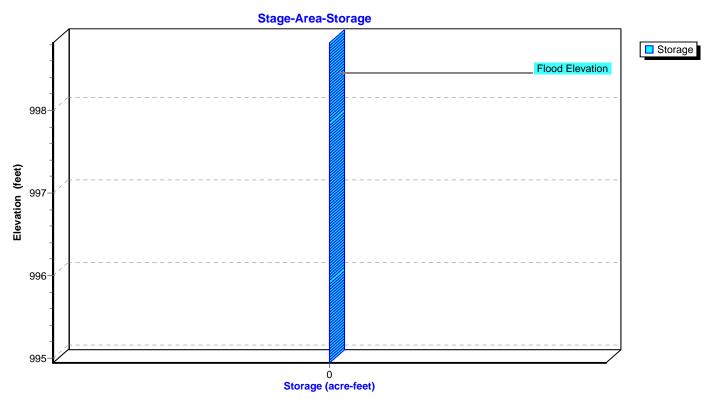
Pond 54P: 302-301



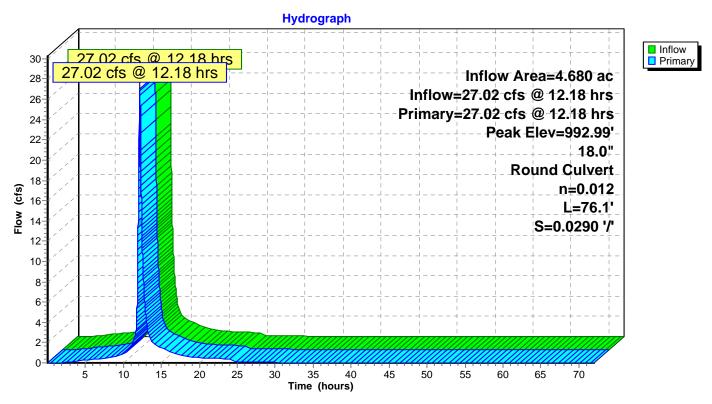
Pond 54P: 302-301



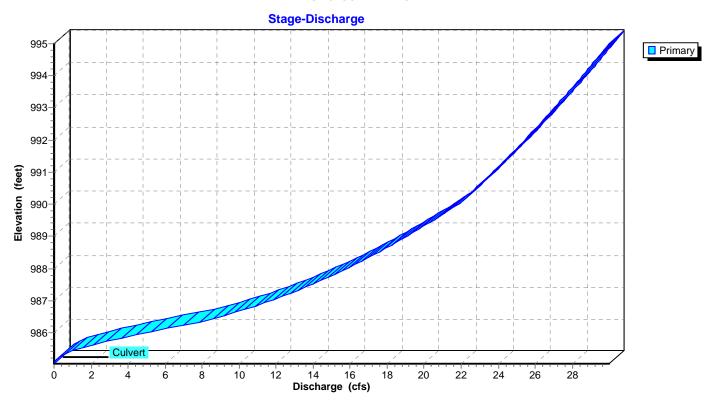
Pond 54P: 302-301



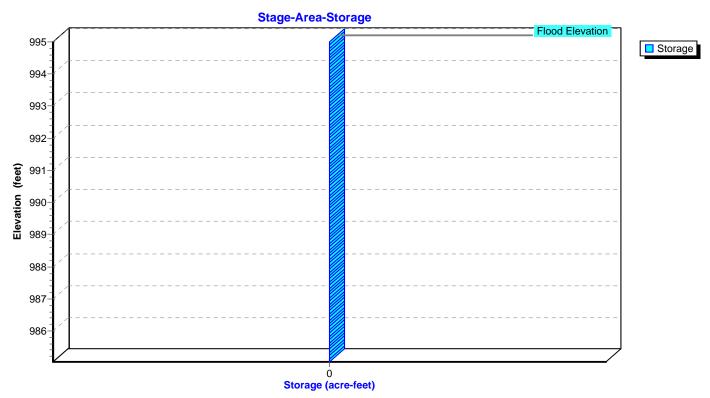
Pond 55P: 11-10



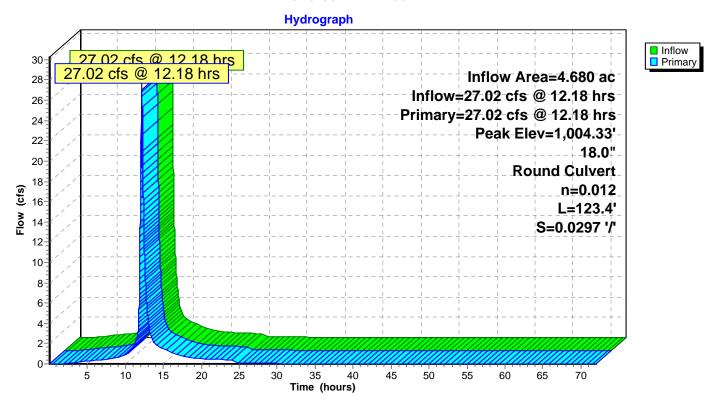
Pond 55P: 11-10



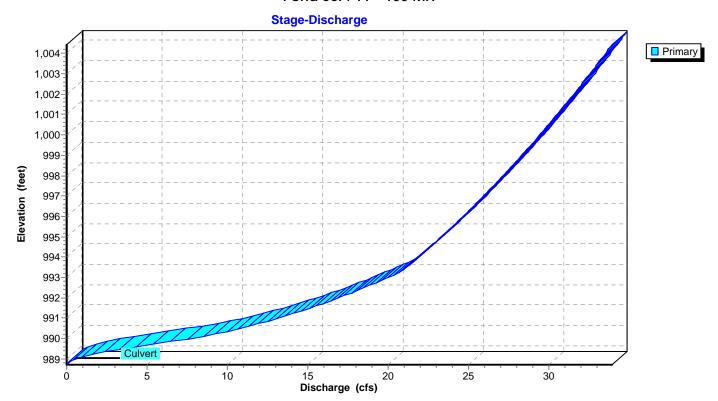
Pond 55P: 11-10



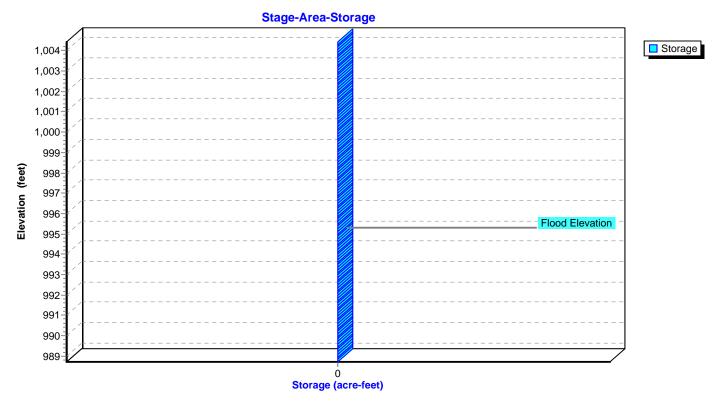
Pond 56P: 11 - 100 MH



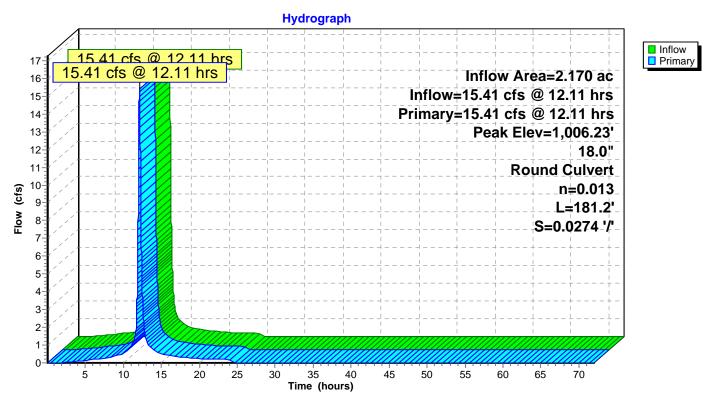
Pond 56P: 11 - 100 MH



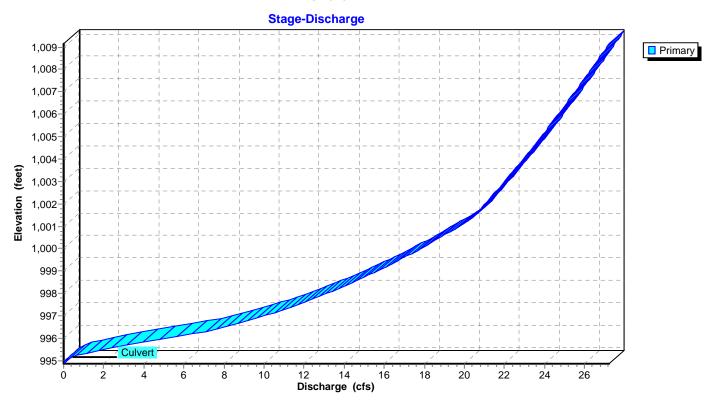
Pond 56P: 11 - 100 MH



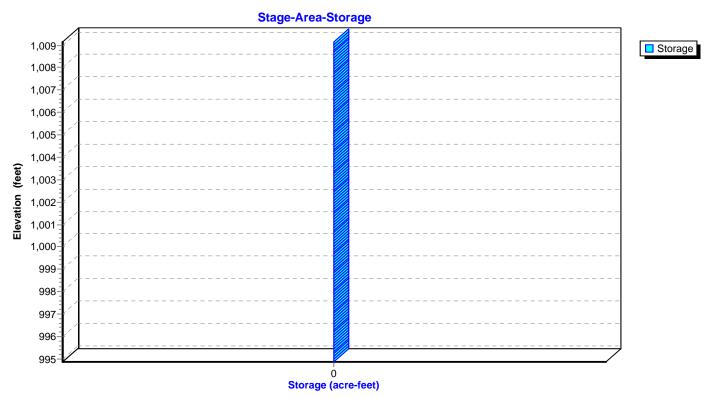
Pond 57P: 12-11



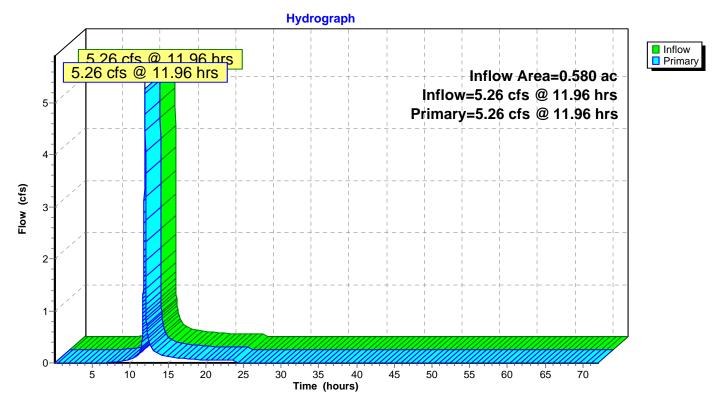
Pond 57P: 12-11



Pond 57P: 12-11



Link 90L: BYPASS AREAS



Events for Subcatchment 1S: EXISTING CONDITIONS

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	3.98	0.218	1.24
10-Year	5.30	8.48	0.458	2.61
100-Year	7.70	15.01	0.819	4.66

Events for Subcatchment 2S: AREA A

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	2.79	0.276	2.84
10-Year	5.30	4.43	0.449	4.60
100-Year	7.70	6.58	0.681	6.98

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Events for Subcatchment 3S: AREA B

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.12	0.005	1.24
10-Year	5.30	0.24	0.011	2.61
100-Year	7.70	0.42	0.019	4.66

Events for Subcatchment 4S: AREA C

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.35	0.015	1.24
10-Year	5.30	0.73	0.033	2.61
100-Year	7.70	1.27	0.058	4.66

Events for Subcatchment 5S: AREA D

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.14	0.006	1.24
10-Year	5.30	0.29	0.013	2.61
100-Year	7.70	0.51	0.023	4.66

Events for Subcatchment 6S: AREA E

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	6.56	0.513	2.84
10-Year	5.30	10.38	0.833	4.60
100-Year	7.70	15.41	1.263	6.98

Events for Subcatchment 7S: AREA F

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	3.57	0.195	1.24
10-Year	5.30	7.60	0.410	2.61
100-Year	7.70	13.44	0.734	4.66

Events for Subcatchment 8S: AREA G

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.04	0.002	1.24
10-Year	5.30	0.08	0.004	2.61
100-Year	7.70	0.14	0.008	4.66

Events for Subcatchment 9S: AREA H

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.02	0.001	1.24
10-Year	5.30	0.04	0.002	2.61
100-Year	7.70	0.07	0.004	4.66

Events for Subcatchment 10S: PROPOSED CONDITIONS

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	6.96	0.313	1.78
10-Year	5.30	12.78	0.589	3.35
100-Year	7.70	20.67	0.980	5.58

Events for Subcatchment 60S: AREA 6

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	1.36	0.061	1.43
10-Year	5.30	2.70	0.122	2.88
100-Year	7.70	4.59	0.212	5.00

Events for Subcatchment 61S: AREA 7

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.22	0.010	1.71
10-Year	5.30	0.41	0.019	3.25
100-Year	7.70	0.68	0.032	5.46

Events for Subcatchment 62S: AREA 1

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.94	0.044	2.54
10-Year	5.30	1.52	0.075	4.27
100-Year	7.70	2.29	0.116	6.63

Events for Subcatchment 63S: AREA 2

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	1.04	0.049	2.45
10-Year	5.30	1.71	0.083	4.17
100-Year	7.70	2.60	0.130	6.51

Events for Subcatchment 64S: AREA 3

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	1.51	0.068	1.86
10-Year	5.30	2.73	0.126	3.45
100-Year	7.70	4.37	0.209	5.69

Events for Subcatchment 65S: AREA 4

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	1.69	0.090	3.27
10-Year	5.30	2.57	0.139	5.06
100-Year	7.70	3.74	0.205	7.46

Events for Subcatchment 66S: AREA 5

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.38	0.017	2.10
10-Year	5.30	0.66	0.031	3.75
100-Year	7.70	1.04	0.050	6.04

Events for Subcatchment 67S: OFFSITE TO CI 12

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	6.56	0.513	2.84
10-Year	5.30	10.38	0.833	4.60
100-Year	7.70	15.41	1.263	6.98

Events for Subcatchment 68S: AREA TO AI 11

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	0.05	0.002	1.24
10-Year	5.30	0.10	0.004	2.61
100-Year	7.70	0.17	0.008	4.66

Events for Subcatchment 69S: OFFSITE TO BMP

Event	Rainfall	Runoff	Volume	Depth
	(inches)	(cfs)	(acre-feet)	(inches)
2-Year	3.50	2.79	0.276	2.84
10-Year	5.30	4.43	0.449	4.60
100-Year	7.70	6.58	0.681	6.98

Events for Pond 10P: 12-11

Event	Inflow	Primary	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	6.59	6.59	998.69	0.000
10-Year	10.44	10.44	998.87	0.000
100-Year	15.51	15.51	1,000.28	0.000

Events for Pond 11P: 11-10

	Event	Inflow	Primary	Elevation	Storage
		(cfs)	(cfs)	(feet)	(acre-feet)
2	-Year	9.08	9.08	992.69	0.000
10	-Year	14.44	14.44	993.30	0.000
100	-Year	21.49	21.49	994.55	0.000

Events for Pond 50P: BASIN REACH

Event	Inflow	Primary I	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	2.07	2.07	995.85	0.000
10-Year	3.23	3.23	996.95	0.000
100-Year	4.78	4.78	998.33	0.000

Events for Pond 51P: ROOF DRAINS TO BASIN

Event	Inflow	Primary	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	2.07	2.07	995.86	0.000
10-Year	3.23	3.23	997.26	0.000
100-Year	4.78	4.78	999.17	0.000

Events for Pond 52P: DETENTION BASIN

Event	Inflow	Primary	Elevation	Storage
	(cfs)	(cfs)	(feet)	(cubic-feet)
2-Year	5.56	0.75	995.85	5,098
10-Year	9.19	2.67	996.77	8,285
100-Year	14.04	7.56	997.94	13,630

Events for Pond 53P: 301-300

Event	Inflow	Primary	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	1.98	1.98	995.85	0.000
10-Year	3.23	3.23	997.02	0.000
100-Year	4.89	4.89	998.57	0.000

Events for Pond 54P: 302-301

Event	Inflow	Primary I	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	0.94	0.94	995.86	0.000
10-Year	1.52	1.52	997.06	0.000
100-Year	2.29	2.29	998.74	0.000

Events for Pond 55P: 11-10

Event	Inflow	Primary Elevation		Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	9.74	9.74	986.63	0.000
10-Year	16.82	16.82	988.29	0.000
100-Year	27.02	27.02	992.99	0.000

Multi-Event Tables
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Events for Pond 56P: 11 - 100 MH

Event	Inflow	Primary	Elevation	Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	9.74	9.74	990.30	0.000
10-Year	16.82	16.82	992.68	0.000
100-Year	27.02	27.02	1,004.33	0.000

Events for Pond 57P: 12-11

Event	Inflow	Primary Elevation		Storage
	(cfs)	(cfs)	(feet)	(acre-feet)
2-Year	6.56	6.56	996.21	0.000
10-Year	10.38	10.38	997.11	0.000
100-Year	15.41	15.41	1,006.23	0.000

Events for Link 90L: BYPASS AREAS

Event	Inflow	Primary	Elevation
	(cfs)	(cfs)	(feet)
2-Year	1.58	1.58	0.00
10-Year	3.12	3.12	0.00
100-Year	5.26	5.26	0.00