

1600 S FEDERAL HIGHWAY (MIXED-USE)
FES #24-1832.00

Drainage Calculations Summary:

This project is 2.35 acres redevelopment project. The site is currently an office building with surface parking. The proposed development is to keep the existing office building and add a high-rise residential building with structured parking.

The site is located at 1600 S Federal Highway, Pompano Beach, FL
(East Side of Federal Highway just South of McNab Road)

The control water elevation for this site is 2.50' NAVD.

Water quality required (0.35 ac-ft) will be provided in 1,020 LF exfiltration trench.

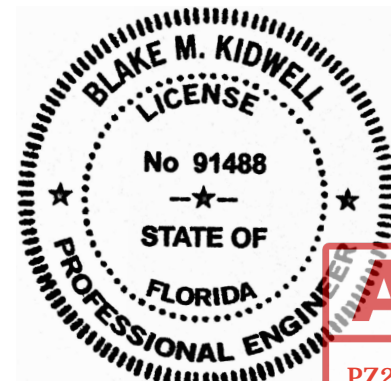
Water quantity will be provided in (1) on-site drainage wells each with 300gpm/ft of discharge starting at elevation 5.50NAVD. (2) provisional wells have been provided if the total required capacity of 300gpm/ft is not met with the first well.

No dewatering is anticipated for the site improvements. An irrigation well is not proposed for the site's irrigation.

	<u>Post Development</u>	<u>Pre Development</u>
100-yr - 3 day	6.47' NAVD	6.50' NAVD
(Minimum FFE=8.40 NAVD or Flood Proofed to 8.40 NAVD)		
25-yr - 3 day	6.17' NAVD	6.19' NAVD

This document has been digitally
signed and sealed by
Blake M. Kidwell on 01/27/2025.

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considered signed and sealed.



AAC
PZ24- 12000027
09/10/2025



1600 S FEDERAL HIGHWAY (MIXED-USE)

FES Project No. 24-1832.00

I. GENERAL INFORMATION

Overall Site Analysis

PROPOSED LAND USAGE

A. TOTAL ACREAGE =	102,519 SF =	2.35 AC	
B. BUILDING COVERAGE =	16,948 SF =	0.39 AC	17%
C. TOTAL ASPHALT & WALKS =	59,215 SF =	1.36 AC	58%
D. TOTAL IMPERVIOUS =	76,163 SF =	1.75 AC	74%
E. % WATER QUALITY IMPERVIOUS =			69%
F. PERVIOUS AREA =	26,356 SF=	0.61 AC	26%
			100%

EXISTING LAND USAGE

A. TOTAL ACREAGE =	102,519 SF =	2.35 AC	
B. BUILDING COVERAGE =	6,421 SF =	0.15 AC	6%
C. TOTAL ASPHALT & WALKS =	86,995 SF =	2.00 AC	85%
D. TOTAL IMPERVIOUS =	93,416 SF =	2.14 AC	91%
E. % WATER QUALITY IMPERVIOUS =			91%
F. PERVIOUS AREA =	9,103 SF=	0.21 AC	9%
			100%

II. WATER QUALITY CRITERIA

A. COMPUTE FIRST INCH OF RUNOFF FROM TOTAL SITE

1"/12 Total Acreage = 0.20 AC-FT= 2.35 AC-IN

B. COMPUTE 2.5 TIMES THE % OF "WATER QUALITY" IMPERVIOUS

2.5" x % Imperv. = 0.34 AC-FT= 4.07 AC-IN

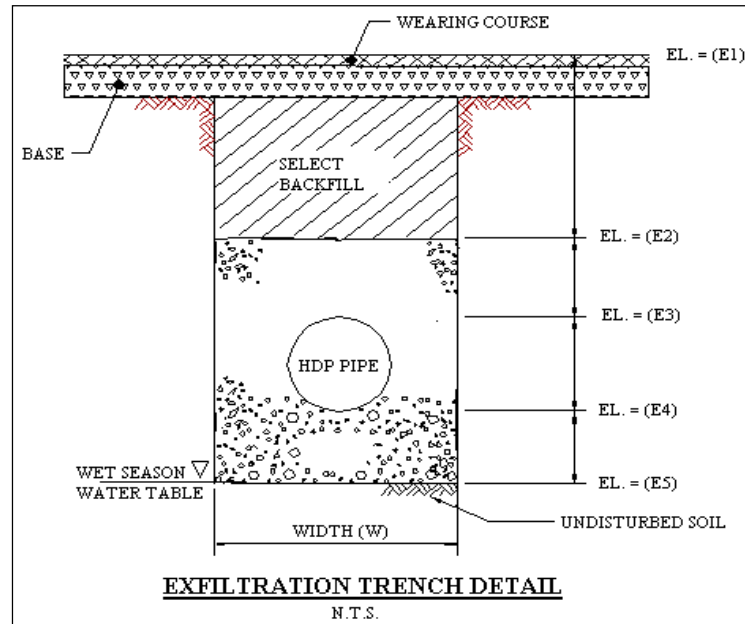
III. WATER QUANTITY CRITERIA

A. COMPUTE 3.2 INCHES OF RUNOFF FROM TOTAL SITE

3.2"/12 Total Acreage = 0.63 AC-FT= 7.53 AC-IN

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FES Project No. 24-1832.00



E1 = 4.25 ft. NAVD $k_1 = 5.00E-04$ cfs / ft² - ft. head (Hydraulic Conductivity)
 E2 = 4.25 ft. NAVD $k_2 = 5.00E-04$ cfs / ft² - ft. head (Hydraulic Conductivity)
 E3 = 3.75 ft. NAVD $K = (k_1 + k_2) / 2 = 5.00E-04$ cfs / ft² - ft. head
 E4 = 2.50 ft. NAVD
 E5 = 0.75 ft. NAVD
 Water Table = 2.50 ft. NAVD
 Width (W) = 7.00 ft.

L = 410 lineal feet of trench provided
 $K = 5.00E-04$ cfs / ft² - ft. head (Hydraulic Conductivity)
 $D_U = 1.75$ ft. (Non-Saturated Trench Depth) $D_U = E2 - (\text{The Shallower of Water Table or } E5)$
 $D_S = 1.75$ ft. (Saturated Trench Depth) $D_S = (\text{The Shallower of Water Table or } E5) - E5$
 $H_2 = 1.75$ ft. (Depth to water table) $H_2 = E1 - (\text{The Shallower of Water Table or } E5)$
 $W = 7.00$ ft. (Width of Trench)
 $V_{wq} = 4.25$ ac-in (Volume to be treated for water quality)
 $\%WQ = 0.50$
 $FS = 2.00$

$$L_{wq} = \frac{FS[(\%WQ)(V_{wq})]}{K(H_2W + 2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U} = \frac{4.25}{0.0107 + 0.0017} = 342 \text{ LF}$$

$L_{wq} = 342$ lineal feet of trench required for water quality

$V_{total} = V_{wq} + V_{qn} = 7.53$ ac-in (Total Volume required to be treated for water quantity)
 $V_{qn} = V_{total} - V_{wq} = 3.28$ ac-in (Volume to be treated in addition to water quality for water quantity)

$$L_{qn} = \frac{FS[(\%WQ)(V_{wq}) + V_{qn}]}{K(H_2W + 2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U} = \frac{10.81}{0.0107 + 0.0017} = 870 \text{ LF}$$

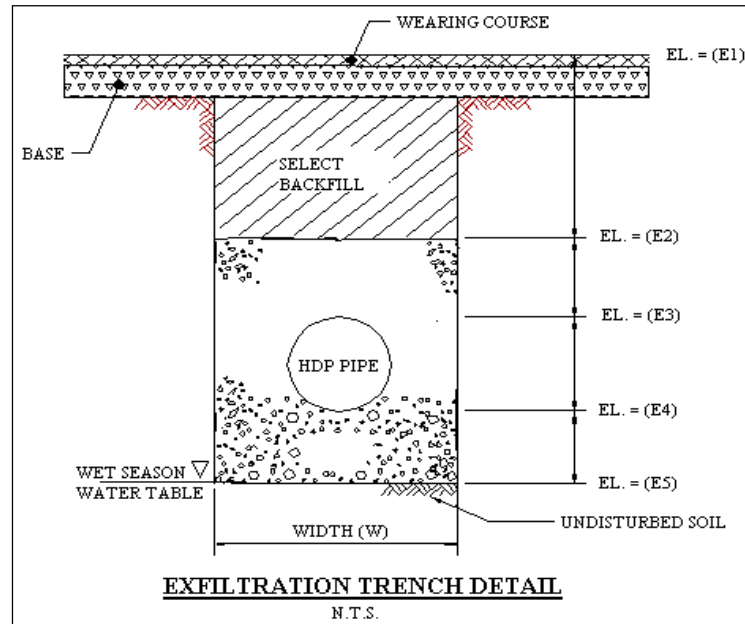
$L_{qn} = 870$ lineal feet of trench required for water quantity

$$V_{add} = \frac{[L \times (K(H_2W + 2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U)] - V_{wq}}{FS} = \frac{[410 \times (0.0107 + 0.0017)] - 4.25}{2.00}$$

$V_{add} = 0.42$ ac-in (Volume provided in addition to V_{wq})

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E1 = 4.25 ft. NAVD $k_1 = 5.00E-04$ cfs / ft² - ft. head (Hydraulic Conductivity)
 E2 = 3.25 ft. NAVD $k_2 = 5.00E-04$ cfs / ft² - ft. head (Hydraulic Conductivity)
 E3 = 2.25 ft. NAVD $K = (k_1 + k_2) / 2 = 5.00E-04$ cfs / ft² - ft. head
 E4 = 1.00 ft. NAVD
 E5 = -1.75 ft. NAVD
 Water Table = 2.50 ft. NAVD
 Width (W) = 10.00 ft.

L = 610 lineal feet of trench provided
 K = 5.00E-04 cfs / ft² - ft. head (Hydraulic Conductivity)
 D_U = 0.75 ft. (Non-Saturated Trench Depth) D_U = E2 - (The Shallower of Water Table or E5)
 D_S = 4.25 ft. (Saturated Trench Depth) D_S = (The Shallower of Water Table or E5) - E5
 H₂ = 1.75 ft. (Depth to water table) H₂ = E1 - (The Shallower of Water Table or E5)
 W = 10.00 ft. (Width of Trench)
 V_{wq} = 0.00 ac-in (Volume to be treated for water quality)
 %WQ = 0.50
 FS = 2.00

$$L_{wq} = \frac{FS[(\%WQ)(V_{wq})]}{K(2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U} = \frac{0.00}{0.0085 + 0.0010} = 0 \text{ LF}$$

L_{wq} = 0 lineal feet of trench required for water quality

V_{total} = V_{wq} + V_{qn} = 2.86 ac-in (Total Volume required to be treated for water quantity)
 V_{qn} = V_{total} - V_{wq} = 2.86 ac-in (Volume to be treated in addition to water quality for water quantity)

$$L_{qn} = \frac{FS[(\%WQ)(V_{wq}) + V_{qn}]}{K(2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U} = \frac{5.72}{0.0085 + 0.0010} = 601 \text{ LF}$$

L_{qn} = 601 lineal feet of trench required for water quantity

$$V_{add} = \frac{[L \times (K(2H_2D_U - D_U^2 + 2H_2D_S) + (0.000139)WD_U)] - V_{wq}}{FS} = \frac{[610 \times (0.0085 + 0.0010)] - 0.00}{2.00}$$

V_{add} = 2.90 ac-in (Volume provided in addition to V_{wq})

Flynn Engineering

Civil Engineering Services
Ft. Lauderdale, FL; (954) 522-1004

Client :
Job Number : 24-1832.00
Design Engineer : BMK

Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/15/24

Project Location : POMPANO BEACH, FL

Section / Township (S)/ Range (E): 12/49/42 Plat Book / Page: City: Pompano E County: Broward State: Florida

Project Description : Existing site.

PRE CONDITION

*All elevations referenced are in NAVI

Total Project Acreage : 2.350 Acres
Total Drainage Basin(with offsite): 2.350 Acres

Federal Insurance Rate Map Information : Map No. 12011C0 Date: 12-31-19 Zone AE Elev. 7.00 NAVD

Hydrogeologic Information :

RAINFALL DATA from SFWMD Tech. Pub. 81-3 May, 1981	1 Day Storm Event			3 Day Storm Event			Less Trench
	Rainfall Inches	Runoff Inches	Runoff Ac-Ft	Rainfall Inches	Runoff Inches	Runoff Ac-Ft	
100 Year Return Period	13.25	12.83	2.51	18.01	17.58	3.44	3.44
25 Year Return Period	10.70	10.28	2.01	14.54	14.12	2.76	2.76
10 Year Return Period	8.50	8.08	1.58	11.55	11.13	2.18	2.18
5 Year Return Period							
3 Year Return Period							

For Runoff estimation use USDA SCS formula
$$\text{Runoff (in.) } Q = \frac{(P-0.2S)^2}{P+0.8S}$$

Where: P = accumulated rainfall (in.)
S = Soil Storage Value

SUMMARY OF FLOOD ROUTING	Broward County maps	Calculated 1 Day Storm Event		Calculated 3 Day Storm Event	
		Peak Stage	Peak Discharge	Peak Stage	Peak Discharge
		100 Year Return Period	5.50	6.07	0.00
25 Year Return Period		5.84	0.00	6.19	0.00
10 Year Return Period	4.50	5.64	0.00		
5 Year Return Period		2.50	0.00		
3 Year Return Period		2.50	0.00		

Water Table Elevation (ft)= 2.50
Compacted Ground storage table

Depth to water table (Ft)	1.00	2.00	3.00	4.00
Ground storage(In)	0.45	1.88	4.05	6.75

Mean depth to ground water table (ft)= 3.00 (Pervious Area)
Soil Storage (S) Value = 0.36
Soil Storage Value (S) = Storage under pervious area / Total Area
Soil Storage under pavement and bldgs. is not considered, per SFWMD.
Time of Conc. (hr.) = 0.25

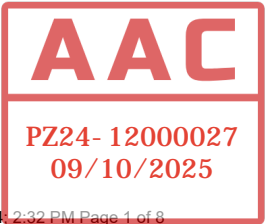
Water Quality Storage Requirements :

Based on Total Drainage Basin Acreage(with offsite)	Ac-Ft
1" x Area	0.20
2.5" X % Imp. X Area (less bldg. & water.For water quality)	0.44
2.5" X % Imp. X Area (Total site less water areas)	0.45
.5" X Area (Pretreatment - Commercial projects Only)	0.10

Based on Project Drainage Acreage(NO offsite)	Ac-Ft
1" x Area	0.20
2.5" X % Imp. X Area (less bldg. & water.For water quality)	0.44
2.5" X % Imp. X Area (Total site less water areas)	0.45
.5" X Area (Pretreatment - Commercial projects Only)	0.10

STORAGE SOURCE	Basin Storage (Ac-Ft)	Equivalent Wet Detention (Ac-Ft)	Project Storage (Ac-Ft)	Equivalent Wet Detention (Ac-Ft)
Retention				
Dry Detention				
Wet Detention				
Total Less Trench	0.00	0.00	0.00	0.00
Exfiltration Trench	0	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Storage from ____ to ____



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Date : 11/15/24

Table 1 - Site Acreage Information

	LAND USES	Input Information						Imperv. Paved Acres	Perv. Acres	Bldgs. Acres	Non Bldgs. Acres	Water Lake Acres	Perv. Area Avg. El.
		Acres	High Elev.	Low Elev.	% Imperv. Paved	% Bldgs.	% Water						
1	BUILDINGS	0.15	6.00	6.00	0.00	100.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
2	PAVEMENT/WALKS	1.99	5.50	4.25	100.00	0.00	0.00	1.99	0.00	0.00	1.99	0.00	0.00
3	LANDSCAPE	0.21	6.00	5.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21	0.00	5.50
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	PROJECT TOTALS / AVERAGE	2.35	6.00	4.25	84.68	6.38	0.00	1.99	0.21	0.15	2.20	0.00	0.00
	OFFSITE AREAS IN THIS BASIN												
29	NONE	0.000	10.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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31													
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	OFFSITE TOTALS / AVERAGE	0.00	10.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	EXFILTRATION TRENCH												
	BASIN TOTALS / AVERAGE	2.35	10.00	2.50	84.68	6.38	0.00	1.99	0.21	0.15	2.20	0.00	5.50

Basin % Imper. for Water Quality Purposes = 90.45

Drainage Basin % Impervious (incl. Bldg., No lakes)= 91.06

Project % Imper. for Water Quality Purposes = 90.45

Project % Impervious (incl. Bldg., No lakes)= 91.06

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Date : 11/15/24

Table 2 - Stage - Storage Information

LAND USES	Surface storage (Ac-Ft)											
	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.
	2.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
1 BUILDINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 PAVEMENT/WALKS	0.00	0.45	1.24	2.24	3.23	4.23	5.22	6.22	7.21	8.21	9.20	10.20
3 LANDSCAPE	0.00	0.00	0.03	0.11	0.21	0.32	0.42	0.53	0.63	0.74	0.84	0.95
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PROJECT TOTALS / AVERAGE	0.00	0.45	1.27	2.34	3.44	4.54	5.64	6.74	7.84	8.94	10.04	11.14
OFFSITE AREAS IN THIS BASIN												
29 NONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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OFFSITE TOTALS / AVERAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 EXFILTRATION TRENCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.45	1.27	2.34	3.44	4.54	5.64	6.74	7.84	8.94	10.04	11.14

Drainage Basin:

Recieving Water Body:

Runoff Formula: $Q=\frac{1}{10}A^{0.77}$

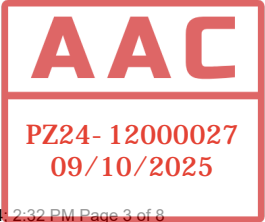
SFWMD allowable discharge: 4.58 CFS

Project Acreage : 2.35

Q=Allowable runoff (CFS)

A=Drainage Area (Square Miles)

Table 3 - Stage / Discharge Data	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.
Stage (feet)	2.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Discharge (Cfs)												



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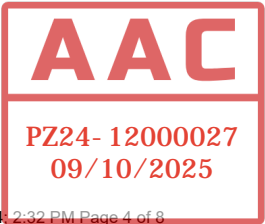
Table 4 - Soil Storage Information

	LAND USES	Depth to Water Table	Ground Storage Under Pervious	
			Inches	Ac-Ft
1	BUILDINGS	0.00	0.00	0.00
2	PAVEMENT/WALKS	0.00	0.00	0.00
3	LANDSCAPE	3.00	4.05	0.07
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	PROJECT TOTALS / AVERAGE		4.05	0.07
	OFFSITE AREAS IN THIS BASIN			
29	NONE	0.00	0.00	0.00
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41				
	OFFSITE TOTALS / AVERAGE		0.00	0.00
42				
	TOTAL/AVERAGE		4.05	0.07

Soil Storage Value (S) = Storage under pervious area / Total Area

S= 0.36

Soil Storage under pavement and buildings is not considered in computations



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Exfiltration Trench Design Information :
Hydraulic Conductivity Determination :

FALLING HEAD OPEN HOLE	Test 1	Test 2	Test 3	Test 4
Diameter of test hole (Ft)				
Height of water @ T1 (Ft)				
Height of water @ T2 (Ft)				
Saturated hole depth (Ft)				
Time , T2 - T1 (Sec)				

Hydraulic conductivity (Cfs/Ft^2)				
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Avg.

USUAL OPEN HOLE	Test 1	Test 2	Test 3	Test 4
Diameter of test hole (Ft)				
Depth to water table (Ft)				
Saturated hole depth (Ft)				
Stabilized flow rate (Gpm)				

Hydraulic conductivity (Cfs/Ft^2)				
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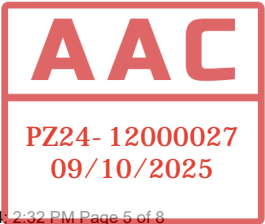
Avg.

Exfiltration Trench Information :

INPUT INFORMATION		
Depth To Top Of Trench (Ft)		
Trench Width (Ft)		
Trench Height (Ft)		
Low Pavement Elevation		
Avg. Hydraulic Conductivity (Cfs/Ft^2)		

Saturated Trench Depth	
Non-Saturated Trench Depth	
Volume Required (Ac-Ft)	
Depth To Water Table or Trench Bottom (Ft)	

Length Required (Ft)	
Length Provided (Ft)	



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Table 5 - Stage - Discharge Information

100 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.32	0.10	0.08	0.11	0.02	0.00	0.02	2.60	0.00	0.00	0.00
8.00	0.05	0.65	0.35	0.21	0.16	0.07	0.00	0.07	2.87	0.00	0.00	0.00
12.00	0.07	0.97	0.64	0.23	0.17	0.12	0.00	0.12	3.17	0.00	0.00	0.00
16.00	0.10	1.29	0.93	0.12	0.18	0.18	0.00	0.18	3.50	0.00	0.00	0.00
20.00	0.12	1.62	1.25	0.24	0.18	0.24	0.00	0.24	3.84	0.00	0.00	0.00
24.00	0.15	1.93	1.56	0.24	0.18	0.30	0.00	0.30	4.18	0.00	0.00	0.00
28.00	0.18	2.41	2.03	0.37	0.29	0.39	0.00	0.39	4.68	0.00	0.00	0.00
32.00	0.22	2.88	2.48	0.25	0.27	0.48	0.00	0.48	5.02	0.00	0.00	0.00
36.00	0.25	3.34	2.94	0.25	0.25	0.57	0.00	0.57	5.07	0.00	0.00	0.00
40.00	0.29	3.82	3.41	0.25	0.27	0.66	0.00	0.66	5.13	0.00	0.00	0.00
44.00	0.32	4.29	3.89	0.37	0.29	0.75	0.00	0.75	5.19	0.00	0.00	0.00
48.00	0.36	4.76	4.35	0.25	0.27	0.85	0.00	0.85	5.24	0.00	0.00	0.00
52.00	0.40	5.35	4.94	0.50	0.42	0.96	0.00	0.96	5.31	0.00	0.00	0.00
56.00	0.50	6.57	6.16	1.00	0.92	1.19	0.00	1.19	5.45	0.00	0.00	0.00
58.00	0.57	7.58	7.16	1.38	1.35	1.37	0.00	1.37	5.55	0.00	0.00	0.00
59.00	0.63	8.32	7.90	2.01	1.89	1.51	0.00	1.51	5.61	0.00	0.00	0.00
59.50	0.68	8.98	8.56	3.13	2.87	1.61	0.00	1.61	5.66	0.00	0.00	0.00
59.75	0.85	11.22	10.80	21.20	9.07	1.80	0.00	1.80	5.75	0.00	0.00	0.00
60.00	1.02	13.45	13.02	21.08	17.12	2.16	0.00	2.16	5.91	0.00	0.00	0.00
60.50	1.09	14.42	13.99	4.52	7.81	2.61	0.00	2.61	6.12	0.00	0.00	0.00
61.00	1.13	14.92	14.49	2.38	3.23	2.78	0.00	2.78	6.20	0.00	0.00	0.00
62.00	1.18	15.60	15.17	1.38	1.55	2.94	0.00	2.94	6.27	0.00	0.00	0.00
64.00	1.24	16.42	15.99	0.88	0.94	3.11	0.00	3.11	6.35	0.00	0.00	0.00
68.00	1.31	17.37	16.94	0.50	0.56	3.31	0.00	3.31	6.44	0.00	0.00	0.00
72.00	1.36	18.01	17.58	0.38	0.38	3.43	0.00	3.43	6.50	0.00	0.00	0.00
Peak stage						6.50	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

Table 6 - Stage - Discharge Information

25 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.26	0.06	0.06	0.08	0.01	0.00	0.01	2.56	0.00	0.00	0.00
8.00	0.05	0.52	0.25	0.16	0.12	0.05	0.00	0.05	2.76	0.00	0.00	0.00
12.00	0.07	0.78	0.47	0.18	0.13	0.09	0.00	0.09	2.99	0.00	0.00	0.00
16.00	0.10	1.04	0.70	0.09	0.14	0.14	0.00	0.14	3.25	0.00	0.00	0.00
20.00	0.12	1.31	0.95	0.19	0.14	0.18	0.00	0.18	3.52	0.00	0.00	0.00
24.00	0.15	1.56	1.20	0.19	0.15	0.23	0.00	0.23	3.79	0.00	0.00	0.00
28.00	0.18	1.95	1.57	0.30	0.23	0.30	0.00	0.30	4.19	0.00	0.00	0.00
32.00	0.22	2.32	1.94	0.20	0.21	0.38	0.00	0.38	4.59	0.00	0.00	0.00
36.00	0.25	2.70	2.31	0.20	0.20	0.45	0.00	0.45	5.00	0.00	0.00	0.00
40.00	0.29	3.08	2.69	0.20	0.22	0.52	0.00	0.52	5.04	0.00	0.00	0.00
44.00	0.32	3.47	3.07	0.30	0.24	0.60	0.00	0.60	5.09	0.00	0.00	0.00
48.00	0.36	3.84	3.44	0.20	0.22	0.67	0.00	0.67	5.13	0.00	0.00	0.00
52.00	0.40	4.32	3.92	0.40	0.34	0.76	0.00	0.76	5.19	0.00	0.00	0.00
56.00	0.50	5.31	4.90	0.81	0.74	0.94	0.00	0.94	5.30	0.00	0.00	0.00
58.00	0.57	6.12	5.71	1.11	1.09	1.09	0.00	1.09	5.39	0.00	0.00	0.00
59.00	0.63	6.72	6.30	1.62	1.53	1.20	0.00	1.20	5.46	0.00	0.00	0.00
59.50	0.68	7.25	6.84	2.53	2.32	1.29	0.00	1.29	5.51	0.00	0.00	0.00
59.75	0.85	9.06	8.64	17.11	7.32	1.44	0.00	1.44	5.58	0.00	0.00	0.00
60.00	1.02	10.86	10.44	17.02	13.81	1.73	0.00	1.73	5.71	0.00	0.00	0.00
60.50	1.09	11.64	11.22	3.65	6.31	2.09	0.00	2.09	5.88	0.00	0.00	0.00
61.00	1.13	12.05	11.62	1.93	2.60	2.23	0.00	2.23	5.95	0.00	0.00	0.00
62.00	1.18	12.59	12.17	1.11	1.25	2.36	0.00	2.36	6.01	0.00	0.00	0.00
64.00	1.24	13.26	12.83	0.71	0.76	2.50	0.00	2.50	6.07	0.00	0.00	0.00
68.00	1.31	14.03	13.60	0.41	0.46	2.65	0.00	2.65	6.14	0.00	0.00	0.00
72.00	1.36	14.54	14.12	0.30	0.30	2.76	0.00	2.76	6.19	0.00	0.00	0.00
Peak stage						6.19	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

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PZ24- 12000027
09/10/2025

Flynn Engineering

Civil Engineering Services

Ft. Lauderdale, FL; (954) 522-1004

Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program

Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/15/24

Table 7 - Stage - Discharge Information

10 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.20	0.04	0.04	0.05	0.01	0.00	0.01	2.53	0.00	0.00	0.00
8.00	0.05	0.42	0.17	0.12	0.09	0.03	0.00	0.03	2.67	0.00	0.00	0.00
12.00	0.07	0.62	0.33	0.14	0.10	0.06	0.00	0.06	2.85	0.00	0.00	0.00
16.00	0.10	0.82	0.51	0.07	0.11	0.10	0.00	0.10	3.04	0.00	0.00	0.00
20.00	0.12	1.04	0.70	0.15	0.11	0.13	0.00	0.13	3.25	0.00	0.00	0.00
24.00	0.15	1.24	0.89	0.15	0.11	0.17	0.00	0.17	3.46	0.00	0.00	0.00
28.00	0.18	1.55	1.18	0.23	0.18	0.23	0.00	0.23	3.77	0.00	0.00	0.00
32.00	0.22	1.84	1.47	0.16	0.17	0.28	0.00	0.28	4.09	0.00	0.00	0.00
36.00	0.25	2.14	1.76	0.16	0.16	0.34	0.00	0.34	4.41	0.00	0.00	0.00
40.00	0.29	2.45	2.06	0.16	0.17	0.40	0.00	0.40	4.74	0.00	0.00	0.00
44.00	0.32	2.75	2.36	0.24	0.19	0.46	0.00	0.46	5.01	0.00	0.00	0.00
48.00	0.36	3.05	2.66	0.16	0.17	0.52	0.00	0.52	5.04	0.00	0.00	0.00
52.00	0.40	3.43	3.03	0.32	0.27	0.59	0.00	0.59	5.09	0.00	0.00	0.00
56.00	0.50	4.22	3.81	0.64	0.59	0.73	0.00	0.73	5.17	0.00	0.00	0.00
58.00	0.57	4.86	4.45	0.88	0.86	0.85	0.00	0.85	5.25	0.00	0.00	0.00
59.00	0.63	5.34	4.93	1.28	1.21	0.94	0.00	0.94	5.30	0.00	0.00	0.00
59.50	0.68	5.76	5.35	2.01	1.84	1.01	0.00	1.01	5.34	0.00	0.00	0.00
59.75	0.85	7.20	6.78	13.58	5.81	1.13	0.00	1.13	5.41	0.00	0.00	0.00
60.00	1.02	8.63	8.21	13.51	10.96	1.35	0.00	1.35	5.54	0.00	0.00	0.00
60.50	1.09	9.25	8.83	2.90	5.01	1.65	0.00	1.65	5.68	0.00	0.00	0.00
61.00	1.13	9.57	9.15	1.53	2.07	1.75	0.00	1.75	5.73	0.00	0.00	0.00
62.00	1.18	10.00	9.58	0.89	0.99	1.86	0.00	1.86	5.77	0.00	0.00	0.00
64.00	1.24	10.53	10.11	0.56	0.60	1.97	0.00	1.97	5.82	0.00	0.00	0.00
68.00	1.31	11.14	10.72	0.32	0.36	2.09	0.00	2.09	5.88	0.00	0.00	0.00
72.00	1.36	11.55	11.13	0.24	0.24	2.17	0.00	2.17	5.92	0.00	0.00	0.00
Peak stage						5.92	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

Table 8 - Stage - Discharge Information

5 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
8.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
12.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
16.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
20.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
24.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
28.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
32.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
36.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
40.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
44.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
48.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
52.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
56.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
58.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.50	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.75	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.50	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
61.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
62.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
64.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
68.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
72.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
Peak stage						2.50	At hour	0.00				
Peak discharge						0.00	At hour	0.00				

AAC

PZ24- 12000027
09/10/2025

Flynn Engineering

Civil Engineering Services
Ft. Lauderdale, FL; (954) 522-1004

Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/15/24

Table 9 - Stage - Discharge Information 3 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
8.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
12.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
16.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
20.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
24.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
28.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
32.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
36.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
40.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
44.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
48.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
52.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
56.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
58.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.50	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.75	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.50	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
61.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
62.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
64.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
68.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
72.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
Peak stage						2.50	At hour	0.00				
Peak discharge						0.00	At hour	0.00				

AAC

PZ24- 12000027
09/10/2025

Flynn Engineering

Civil Engineering Services
Ft. Lauderdale, FL; (954) 522-1004

Client :
Job Number : 24-1832.00
Design Engineer : BMK

Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Project Location : FT LAUDERDALE, FL

Section / Township (S)/ Range (E): 12/49/42 Plat Book / Page: City: Pompano E County: Broward State: Florida

Project Description : Proposed development site.

POST CONDITION

*All elevations referenced are in NAVD

Total Project Acreage : 2.350 Acres
Total Drainage Basin(with offsite): 2.350 Acres

Federal Insurance Rate Map Information : Map No. 12011C0 Date: 12-31-19 Zone AE Elev. 7.00 NAVD

Hydrogeologic Information :

RAINFALL DATA from SFWMD Tech. Pub. 81-3 May, 1981	1 Day Storm Event			3 Day Storm Event			Less Trench Ac-Ft
	Rainfall Inches	Runoff Inches	Runoff Ac-Ft	Rainfall Inches	Runoff Inches	Runoff Ac-Ft	
100 Year Return Period	13.25	12.37	2.42	18.01	17.11	3.35	2.72
25 Year Return Period	10.70	9.83	1.92	14.54	13.66	2.67	2.04
10 Year Return Period	8.50	7.64	1.50	11.55	10.68	2.09	1.46
5 Year Return Period							
3 Year Return Period							

For Runoff estimation use USDA SCS formula
$$\text{Runoff (in.) } Q = \frac{(P-0.2S)^2}{P+0.8S}$$

Where: P = accumulated rainfall (in.)
S = Soil Storage Value

SUMMARY OF FLOOD ROUTING	Broward County maps	Calculated		Calculated	
		1 Day Storm Event		3 Day Storm Event	
		Peak Stage	Peak Discharge	Peak Stage	Peak Discharge
100 Year Return Period	5.50	6.48	0.00	7.06	0.00
25 Year Return Period		6.12	0.00	6.64	0.00
10 Year Return Period	4.50	5.77	0.00		
5 Year Return Period		2.50	0.00		
3 Year Return Period		2.50	0.00		

Water Table Elevation (ft)= 2.50
Compacted Ground storage table

Depth to water table (Ft)	1.00	2.00	3.00	4.00
Ground storage(In)	0.45	1.88	4.05	6.75

Mean depth to ground water table (ft)= 2.50 (Pervious Area)
Soil Storage (S) Value = 0.77
Soil Storage Value (S) = Storage under pervious area / Total Area
Soil Storage under pavement and bldgs. is not considered, per SFWMD.
Time of Conc. (hr.) = 0.25

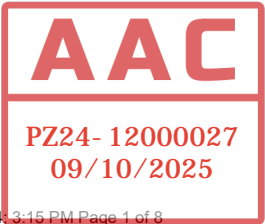
Water Quality Storage Requirements :

Based on Total Drainage Basin Acreage(with offsite)	Ac-Ft
1" x Area	0.20
2.5" X % Imp. X Area (less bldg. & water,For water quality)	0.34
2.5" X % Imp. X Area (Total site less water areas)	0.36
.5" X Area (Pretreatment - Commercial projects Only)	0.10

Based on Project Drainage Acreage(NO offsite)	Ac-Ft
1" x Area	0.20
2.5" X % Imp. X Area (less bldg. & water,For water quality)	0.34
2.5" X % Imp. X Area (Total site less water areas)	0.36
.5" X Area (Pretreatment - Commercial projects Only)	0.10

STORAGE SOURCE	Basin Storage (Ac-Ft)	Equivalent Wet Detention (Ac-Ft)	Project Storage (Ac-Ft)	Equivalent Wet Detention (Ac-Ft)
Retention				
Dry Detention				
Wet Detention				
Total Less Trench	0.00	0.00	0.00	0.00
Exfiltration Trench	0.63	0.63	0.00	0.00
Total	0.63	0.63	0.00	0.00

Storage from ____ to ____



Flynn Engineering

Civil Engineering Services
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Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Table 1 - Site Acreage Information

	LAND USES	Input Information						Imperv. Paved Acres	Perv. Acres	Bldgs. Acres	Non Bldgs. Acres	Water Lake Acres	Perv. Area Avg. El.
		Acres	High Elev.	Low Elev.	% Imperv. Paved	% Bldgs.	% Water						
1	BUILDINGS	0.39	8.40	8.40	0.00	100.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00
2	HIGH PAVEMENT/WALKS	0.45	8.00	6.50	100.00	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00
3	MEDIUM PAVEMENT/WALKS	0.45	6.50	5.50	100.00	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00
4	LOW PAVEMENT/WALKS	0.45	5.50	4.50	100.00	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00
5	LANDSCAPE	0.61	6.00	4.00	0.00	0.00	0.00	0.00	0.61	0.00	0.61	0.00	5.00
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
	PROJECT TOTALS / AVERAGE	2.35	8.40	4.00	57.45	16.60	0.00	1.35	0.61	0.39	1.96	0.00	0.00
	OFFSITE AREAS IN THIS BASIN												
29	NONE	0.000	10.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
	OFFSITE TOTALS / AVERAGE	0.00	10.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	EXFILTRATION TRENCH												
	BASIN TOTALS / AVERAGE	2.35	10.00	2.50	57.45	16.60	0.00	1.35	0.61	0.39	1.96	0.00	5.00

Basin % Imper. for Water Quality Purposes = 68.88

Drainage Basin % Impervious (incl. Bldg., No lakes)= 74.04

Project % Imper. for Water Quality Purposes = 68.88

Project % Impervious (incl. Bldg., No lakes)= 74.04

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Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Table 2 - Stage - Storage Information

LAND USES	Surface storage (Ac-Ft)											
	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.
	2.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
1 BUILDINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 HIGH PAVEMENT/WALKS	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.34	0.56	0.79	1.01	1.24
3 MEDIUM PAVEMENT/WALKS	0.00	0.00	0.00	0.06	0.23	0.45	0.68	0.90	1.13	1.35	1.58	1.80
4 LOW PAVEMENT/WALKS	0.00	0.06	0.23	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25
5 LANDSCAPE	0.00	0.15	0.34	0.61	0.92	1.22	1.53	1.83	2.14	2.44	2.75	3.05
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
PROJECT TOTALS / AVERAGE	0.00	0.21	0.57	1.12	1.82	2.61	3.48	4.42	5.40	6.38	7.36	8.34
OFFSITE AREAS IN THIS BASIN												
29 NONE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
OFFSITE TOTALS / AVERAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 EXFILTRATION TRENCH	0.00	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
TOTAL	0.00	0.84	1.20	1.75	2.45	3.24	4.11	5.05	6.03	7.01	7.99	8.97

Drainage Basin:

Recieving Water Body:

Runoff Formula: $Q=\{(72/$

SFWMD allowable discharge: 4.58 CFS

Project Acreage : 2.35

Q =Allowable runoff (CFS)

A =Drainage Area (Square Miles)

Table 3 - Stage / Discharge Data	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.	Elev.
Stage (feet)	2.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Discharge (Cfs)												

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Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

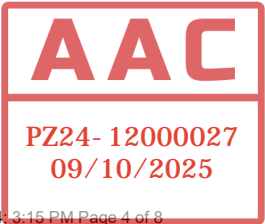
Table 4 - Soil Storage Information

LAND USES	Depth to Water Table	Ground Storage Under Pervious	
		Inches	Ac-Ft
1 BUILDINGS	0.00	0.00	0.00
2 HIGH PAVEMENT/WALKS	0.00	0.00	0.00
3 MEDIUM PAVEMENT/WALKS	0.00	0.00	0.00
4 LOW PAVEMENT/WALKS	0.00	0.00	0.00
5 LANDSCAPE	2.50	2.97	0.15
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
PROJECT TOTALS / AVERAGE		2.97	0.15
OFFSITE AREAS IN THIS BASIN			
29 NONE	0.00	0.00	0.00
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
OFFSITE TOTALS / AVERAGE		0.00	0.00
42			
TOTAL/AVERAGE		2.97	0.15

Soil Storage Value (S) = Storage under pervious area / Total Area

Soil Storage under pavement and buildings is not considered in computations

S= 0.77



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Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
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Date : 11/19/24

Exfiltration Trench Design Information :
Hydraulic Conductivity Determination :

FALLING HEAD OPEN HOLE	Test 1	Test 2	Test 3	Test 4
Diameter of test hole (Ft)				
Height of water @ T1 (Ft)				
Height of water @ T2 (Ft)				
Saturated hole depth (Ft)				
Time , T2 - T1 (Sec)				

Hydraulic conductivity (Cfs/Ft^2)				
-----------------------------------	--	--	--	--

Avg.

USUAL OPEN HOLE	Test 1	Test 2	Test 3	Test 4
Diameter of test hole (Ft)				
Depth to water table (Ft)				
Saturated hole depth (Ft)				
Stabilized flow rate (Gpm)				

Hydraulic conductivity (Cfs/Ft^2)				
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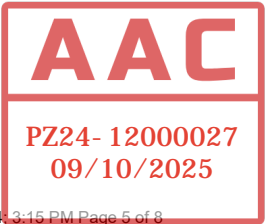
Avg.

Exfiltration Trench Information :

INPUT INFORMATION		
Depth To Top Of Trench (Ft)		
Trench Width (Ft)		
Trench Height (Ft)		
Low Pavement Elevation		
Avg. Hydraulic Conductivity (Cfs/Ft^2)		

Saturated Trench Depth	
Non-Saturated Trench Depth	
Volume Required (Ac-Ft)	
Depth To Water Table or Trench Bottom (Ft)	

Length Required (Ft)	
Length Provided (Ft)	



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Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program

Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Table 5 - Stage - Discharge Information

100 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.32	0.03	0.04	0.05	0.00	0.00	0.00	2.51	0.00	0.00	0.00
8.00	0.05	0.65	0.19	0.16	0.11	0.04	0.00	0.04	2.60	0.00	0.00	0.00
12.00	0.07	0.97	0.42	0.19	0.14	0.08	0.00	0.08	2.73	0.00	0.00	0.00
16.00	0.10	1.29	0.67	0.10	0.16	0.13	0.00	0.13	2.88	0.00	0.00	0.00
20.00	0.12	1.62	0.96	0.22	0.17	0.18	0.00	0.18	3.05	0.00	0.00	0.00
24.00	0.15	1.93	1.24	0.23	0.17	0.24	0.00	0.24	3.21	0.00	0.00	0.00
28.00	0.18	2.41	1.68	0.35	0.28	0.32	0.00	0.32	3.46	0.00	0.00	0.00
32.00	0.22	2.88	2.12	0.24	0.26	0.41	0.00	0.41	3.53	0.00	0.00	0.00
36.00	0.25	3.34	2.57	0.24	0.24	0.50	0.00	0.50	3.75	0.00	0.00	0.00
40.00	0.29	3.82	3.03	0.24	0.26	0.59	0.00	0.59	3.97	0.00	0.00	0.00
44.00	0.32	4.29	3.49	0.37	0.29	0.68	0.00	0.68	4.19	0.00	0.00	0.00
48.00	0.36	4.76	3.94	0.25	0.26	0.77	0.00	0.77	4.42	0.00	0.00	0.00
52.00	0.40	5.35	4.53	0.49	0.41	0.88	0.00	0.88	5.05	0.00	0.00	0.00
56.00	0.50	6.57	5.73	0.99	0.91	1.10	0.00	1.10	5.37	0.00	0.00	0.00
58.00	0.57	7.58	6.73	1.37	1.34	1.29	0.00	1.29	5.58	0.00	0.00	0.00
59.00	0.63	8.32	7.46	1.99	1.88	1.42	0.00	1.42	5.70	0.00	0.00	0.00
59.50	0.68	8.98	8.12	3.12	2.86	1.53	0.00	1.53	5.80	0.00	0.00	0.00
59.75	0.85	11.22	10.35	21.11	9.03	1.72	0.00	1.72	5.97	0.00	0.00	0.00
60.00	1.02	13.45	12.57	21.02	17.06	2.07	0.00	2.07	6.23	0.00	0.00	0.00
60.50	1.09	14.42	13.53	4.51	7.79	2.52	0.00	2.52	6.55	0.00	0.00	0.00
61.00	1.13	14.92	14.03	2.38	3.22	2.69	0.00	2.69	6.65	0.00	0.00	0.00
62.00	1.18	15.60	14.71	1.38	1.54	2.85	0.00	2.85	6.76	0.00	0.00	0.00
64.00	1.24	16.42	15.53	0.88	0.94	3.02	0.00	3.02	6.86	0.00	0.00	0.00
68.00	1.31	17.37	16.48	0.50	0.56	3.22	0.00	3.22	6.99	0.00	0.00	0.00
72.00	1.36	18.01	17.11	0.38	0.38	3.34	0.00	3.34	7.06	0.00	0.00	0.00
Peak stage						7.06	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

Table 6 - Stage - Discharge Information

25 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.26	0.01	0.02	0.03	0.00	0.00	0.00	2.51	0.00	0.00	0.00
8.00	0.05	0.52	0.12	0.11	0.08	0.02	0.00	0.02	2.56	0.00	0.00	0.00
12.00	0.07	0.78	0.28	0.14	0.10	0.05	0.00	0.05	2.66	0.00	0.00	0.00
16.00	0.10	1.04	0.47	0.08	0.12	0.09	0.00	0.09	2.77	0.00	0.00	0.00
20.00	0.12	1.31	0.69	0.17	0.13	0.13	0.00	0.13	2.89	0.00	0.00	0.00
24.00	0.15	1.56	0.91	0.18	0.13	0.18	0.00	0.18	3.02	0.00	0.00	0.00
28.00	0.18	1.95	1.25	0.28	0.22	0.24	0.00	0.24	3.22	0.00	0.00	0.00
32.00	0.22	2.32	1.60	0.19	0.20	0.31	0.00	0.31	3.42	0.00	0.00	0.00
36.00	0.25	2.70	1.95	0.19	0.19	0.38	0.00	0.38	3.45	0.00	0.00	0.00
40.00	0.29	3.08	2.32	0.19	0.21	0.45	0.00	0.45	3.63	0.00	0.00	0.00
44.00	0.32	3.47	2.69	0.29	0.23	0.52	0.00	0.52	3.80	0.00	0.00	0.00
48.00	0.36	3.84	3.05	0.20	0.21	0.59	0.00	0.59	3.99	0.00	0.00	0.00
52.00	0.40	4.32	3.52	0.40	0.33	0.68	0.00	0.68	4.21	0.00	0.00	0.00
56.00	0.50	5.31	4.48	0.80	0.73	0.86	0.00	0.86	5.03	0.00	0.00	0.00
58.00	0.57	6.12	5.28	1.10	1.08	1.01	0.00	1.01	5.24	0.00	0.00	0.00
59.00	0.63	6.72	5.88	1.60	1.51	1.12	0.00	1.12	5.39	0.00	0.00	0.00
59.50	0.68	7.25	6.41	2.51	2.30	1.20	0.00	1.20	5.51	0.00	0.00	0.00
59.75	0.85	9.06	8.20	17.01	7.27	1.36	0.00	1.36	5.64	0.00	0.00	0.00
60.00	1.02	10.86	9.99	16.95	13.74	1.64	0.00	1.64	5.90	0.00	0.00	0.00
60.50	1.09	11.64	10.77	3.64	6.28	2.01	0.00	2.01	6.19	0.00	0.00	0.00
61.00	1.13	12.05	11.17	1.92	2.60	2.14	0.00	2.14	6.28	0.00	0.00	0.00
62.00	1.18	12.59	11.72	1.11	1.24	2.27	0.00	2.27	6.37	0.00	0.00	0.00
64.00	1.24	13.26	12.38	0.71	0.76	2.41	0.00	2.41	6.47	0.00	0.00	0.00
68.00	1.31	14.03	13.14	0.40	0.46	2.57	0.00	2.57	6.58	0.00	0.00	0.00
72.00	1.36	14.54	13.66	0.30	0.30	2.67	0.00	2.67	6.64	0.00	0.00	0.00
Peak stage						6.64	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

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Flynn Engineering

Civil Engineering Services

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Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program

Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Table 7 - Stage - Discharge Information

10 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.20	0.00	0.01	0.01	0.00	0.00	0.00	2.50	0.00	0.00	0.00
8.00	0.05	0.42	0.07	0.07	0.05	0.01	0.00	0.01	2.54	0.00	0.00	0.00
12.00	0.07	0.62	0.18	0.10	0.07	0.03	0.00	0.03	2.60	0.00	0.00	0.00
16.00	0.10	0.82	0.31	0.06	0.09	0.06	0.00	0.06	2.68	0.00	0.00	0.00
20.00	0.12	1.04	0.47	0.13	0.09	0.09	0.00	0.09	2.77	0.00	0.00	0.00
24.00	0.15	1.24	0.64	0.13	0.10	0.12	0.00	0.12	2.86	0.00	0.00	0.00
28.00	0.18	1.55	0.90	0.21	0.16	0.17	0.00	0.17	3.01	0.00	0.00	0.00
32.00	0.22	1.84	1.16	0.15	0.16	0.22	0.00	0.22	3.17	0.00	0.00	0.00
36.00	0.25	2.14	1.43	0.15	0.15	0.28	0.00	0.28	3.33	0.00	0.00	0.00
40.00	0.29	2.45	1.72	0.15	0.16	0.33	0.00	0.33	3.49	0.00	0.00	0.00
44.00	0.32	2.75	2.01	0.23	0.18	0.39	0.00	0.39	3.47	0.00	0.00	0.00
48.00	0.36	3.05	2.29	0.15	0.17	0.45	0.00	0.45	3.61	0.00	0.00	0.00
52.00	0.40	3.43	2.66	0.31	0.26	0.51	0.00	0.51	3.79	0.00	0.00	0.00
56.00	0.50	4.22	3.42	0.63	0.57	0.66	0.00	0.66	4.14	0.00	0.00	0.00
58.00	0.57	4.86	4.05	0.87	0.85	0.77	0.00	0.77	4.44	0.00	0.00	0.00
59.00	0.63	5.34	4.51	1.27	1.19	0.86	0.00	0.86	5.03	0.00	0.00	0.00
59.50	0.68	5.76	4.93	1.98	1.82	0.93	0.00	0.93	5.12	0.00	0.00	0.00
59.75	0.85	7.20	6.35	13.45	5.75	1.05	0.00	1.05	5.29	0.00	0.00	0.00
60.00	1.02	8.63	7.77	13.42	10.88	1.27	0.00	1.27	5.57	0.00	0.00	0.00
60.50	1.09	9.25	8.38	2.88	4.98	1.56	0.00	1.56	5.83	0.00	0.00	0.00
61.00	1.13	9.57	8.71	1.52	2.06	1.67	0.00	1.67	5.93	0.00	0.00	0.00
62.00	1.18	10.00	9.14	0.88	0.99	1.77	0.00	1.77	6.02	0.00	0.00	0.00
64.00	1.24	10.53	9.66	0.56	0.60	1.88	0.00	1.88	6.10	0.00	0.00	0.00
68.00	1.31	11.14	10.27	0.32	0.36	2.00	0.00	2.00	6.18	0.00	0.00	0.00
72.00	1.36	11.55	10.68	0.24	0.24	2.09	0.00	2.09	6.24	0.00	0.00	0.00
Peak stage						6.24	At hour	72.00				
Peak discharge						0.00	At hour	0.00				

Table 8 - Stage - Discharge Information

5 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
8.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
12.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
16.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
20.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
24.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
28.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
32.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
36.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
40.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
44.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
48.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
52.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
56.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
58.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.50	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.75	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.50	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
61.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
62.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
64.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
68.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
72.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
Peak stage						2.50	At hour	0.00				
Peak discharge						0.00	At hour	0.00				

AAC

PZ24- 12000027
09/10/2025

Flynn Engineering

Civil Engineering Services
Ft. Lauderdale, FL; (954) 522-1004

Santa Barbara Urban Hydrograph Flood Routing, based on South Florida Water Management District Program
Project: 1600 S Federal Highway (Mixed-Use Development)

Date : 11/19/24

Table 9 - Stage - Discharge Information

3 - YEAR STORM EVENT

TIME STEP (HOUR)	Rain Fall Ratio	Rain C*P (In)	Q Scs (In)	Inst Q In (Cfs)	Sbuh Q (Cfs)	Tot Q In (Ac-Ft)	Sumq Out (Ac-Ft)	Stored Vol (Ac-Ft)	Stage Lk-Up (Feet)	Inst Q Lkup (Cfs)	Avg. Q Out (Cfs)	Step Qout (Ac-Ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
4.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
8.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
12.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
16.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
20.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
24.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
28.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
32.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
36.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
40.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
44.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
48.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
52.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
56.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
58.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.50	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
59.75	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
60.50	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
61.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
62.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
64.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
68.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
72.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00
Peak stage						2.50	At hour	0.00				
Peak discharge						0.00	At hour	0.00				

AAC

PZ24- 12000027
09/10/2025

Project Name: 1600 S FEDERAL HWY

Reviewer: BMK

Project Number: 24-1832.00

Period Begin: Jan 01, 2000;0000 hr End: Jan 04, 2000;0800 hr Duration: 80 hr

Time Step: 0.2 hr, Iterations: 10

Basin 1: SITE

Method: Santa Barbara Unit Hydrograph

Rainfall Distribution: SFWMD - 3day

Design Frequency: 25 year

3 Day Rainfall: 14.5399 inches

Area: 2.35 acres

Ground Storage: 0.77 inches

Time of Concentration: 0.25 hours

Initial Stage: 2.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
2.50	0.00
5.00	0.84
5.50	1.20
6.00	1.75
6.50	2.45
7.00	3.24
7.50	4.11
8.00	5.05
8.50	6.03

Offsite Receiving Body: Offsitel

Time (hr)	Stage (ft NGVD)
0.00	2.00
80.00	2.00

Structure: 1

From Basin: SITE

To Basin: Offsitel

Structure Type: Pump

On Elev = 5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.33	0.01	5.02	2.00
57.00	5.67	0.88	0.33	0.04	5.07	2.00
58.00	6.12	1.08	0.33	0.07	5.15	2.00
59.00	6.72	1.54	0.33	0.09	5.26	2.00
60.00	10.86	14.85	0.33	0.12	5.78	2.00
61.00	12.05	2.38	0.33	0.15	6.13	2.00
62.00	12.59	1.22	0.33	0.18	6.17	2.00
63.00	12.94	0.78	0.33	0.20	6.16	2.00
64.00	13.26	0.76	0.33	0.23	6.15	2.00
65.00	13.45	0.46	0.33	0.26	6.12	2.00
66.00	13.64	0.45	0.33	0.29	6.09	2.00
67.00	13.83	0.45	0.33	0.31	6.05	2.00
68.00	14.03	0.45	0.33	0.34	6.02	2.00
69.00	14.15	0.31	0.33	0.37	5.99	2.00
70.00	14.28	0.30	0.33	0.40	5.96	2.00
71.00	14.41	0.30	0.33	0.43	5.94	2.00
72.00	14.54	0.30	0.33	0.45	5.91	2.00
73.00	14.54	0.01	0.33	0.48	5.86	2.00
74.00	14.54	0.00	0.33	0.51	5.81	2.00
75.00	14.54	0.00	0.33	0.54	5.76	2.00
76.00	14.54	0.00	0.33	0.56	5.71	2.00
77.00	14.54	0.00	0.33	0.59	5.66	2.00
78.00	14.54	0.00	0.33	0.62	5.61	2.00
79.00	14.54	0.00	0.33	0.65	5.56	2.00
80.00	14.54	0.00	0.33	0.67	5.51	2.00

Structure: 2

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 5.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

AAC**PZ24- 12000027
09/10/2025**

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.00	0.00	5.02	2.00
57.00	5.67	0.88	0.00	0.00	5.07	2.00
58.00	6.12	1.08	0.00	0.00	5.15	2.00
59.00	6.72	1.54	0.00	0.00	5.26	2.00
60.00	10.86	14.85	0.33	0.01	5.78	2.00
61.00	12.05	2.38	0.33	0.04	6.13	2.00
62.00	12.59	1.22	0.33	0.07	6.17	2.00
63.00	12.94	0.78	0.33	0.09	6.16	2.00
64.00	13.26	0.76	0.33	0.12	6.15	2.00
65.00	13.45	0.46	0.33	0.15	6.12	2.00
66.00	13.64	0.45	0.33	0.18	6.09	2.00
67.00	13.83	0.45	0.33	0.20	6.05	2.00
68.00	14.03	0.45	0.33	0.23	6.02	2.00



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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
69.00	14.15	0.31	0.33	0.26	5.99	2.00
70.00	14.28	0.30	0.33	0.29	5.96	2.00
71.00	14.41	0.30	0.33	0.31	5.94	2.00
72.00	14.54	0.30	0.33	0.34	5.91	2.00
73.00	14.54	0.01	0.33	0.37	5.86	2.00
74.00	14.54	0.00	0.33	0.40	5.81	2.00
75.00	14.54	0.00	0.33	0.43	5.76	2.00
76.00	14.54	0.00	0.33	0.45	5.71	2.00
77.00	14.54	0.00	0.33	0.48	5.66	2.00
78.00	14.54	0.00	0.33	0.51	5.61	2.00
79.00	14.54	0.00	0.33	0.54	5.56	2.00
80.00	14.54	0.00	0.33	0.56	5.51	2.00

Structure: 3

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 6 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00

AAC

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.00	0.00	5.02	2.00
57.00	5.67	0.88	0.00	0.00	5.07	2.00
58.00	6.12	1.08	0.00	0.00	5.15	2.00
59.00	6.72	1.54	0.00	0.00	5.26	2.00
60.00	10.86	14.85	0.00	0.00	5.78	2.00
61.00	12.05	2.38	0.33	0.02	6.13	2.00
62.00	12.59	1.22	0.33	0.05	6.17	2.00
63.00	12.94	0.78	0.33	0.08	6.16	2.00
64.00	13.26	0.76	0.33	0.10	6.15	2.00
65.00	13.45	0.46	0.33	0.13	6.12	2.00
66.00	13.64	0.45	0.33	0.16	6.09	2.00
67.00	13.83	0.45	0.33	0.19	6.05	2.00
68.00	14.03	0.45	0.33	0.22	6.02	2.00
69.00	14.15	0.31	0.00	0.23	5.99	2.00
70.00	14.28	0.30	0.00	0.23	5.96	2.00
71.00	14.41	0.30	0.00	0.23	5.94	2.00
72.00	14.54	0.30	0.00	0.23	5.91	2.00
73.00	14.54	0.01	0.00	0.23	5.86	2.00
74.00	14.54	0.00	0.00	0.23	5.81	2.00
75.00	14.54	0.00	0.00	0.23	5.76	2.00
76.00	14.54	0.00	0.00	0.23	5.71	2.00
77.00	14.54	0.00	0.00	0.23	5.66	2.00
78.00	14.54	0.00	0.00	0.23	5.61	2.00
79.00	14.54	0.00	0.00	0.23	5.56	2.00
80.00	14.54	0.00	0.00	0.23	5.51	2.00

Structure: 4

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 6.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00

AAC

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.00	0.00	5.02	2.00
57.00	5.67	0.88	0.00	0.00	5.07	2.00
58.00	6.12	1.08	0.00	0.00	5.15	2.00
59.00	6.72	1.54	0.00	0.00	5.26	2.00
60.00	10.86	14.85	0.00	0.00	5.78	2.00
61.00	12.05	2.38	0.00	0.00	6.13	2.00
62.00	12.59	1.22	0.00	0.00	6.17	2.00
63.00	12.94	0.78	0.00	0.00	6.16	2.00
64.00	13.26	0.76	0.00	0.00	6.15	2.00
65.00	13.45	0.46	0.00	0.00	6.12	2.00
66.00	13.64	0.45	0.00	0.00	6.09	2.00
67.00	13.83	0.45	0.00	0.00	6.05	2.00
68.00	14.03	0.45	0.00	0.00	6.02	2.00
69.00	14.15	0.31	0.00	0.00	5.99	2.00
70.00	14.28	0.30	0.00	0.00	5.96	2.00
71.00	14.41	0.30	0.00	0.00	5.94	2.00
72.00	14.54	0.30	0.00	0.00	5.91	2.00
73.00	14.54	0.01	0.00	0.00	5.86	2.00
74.00	14.54	0.00	0.00	0.00	5.81	2.00
75.00	14.54	0.00	0.00	0.00	5.76	2.00
76.00	14.54	0.00	0.00	0.00	5.71	2.00
77.00	14.54	0.00	0.00	0.00	5.66	2.00
78.00	14.54	0.00	0.00	0.00	5.61	2.00
79.00	14.54	0.00	0.00	0.00	5.56	2.00
80.00	14.54	0.00	0.00	0.00	5.51	2.00

Structure: 5

From Basin: SITE
 To Basin: Offsitel
 Structure Type: Pump

AAC

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 09/10/2025

On Elev = 7 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.00	0.00	5.02	2.00
57.00	5.67	0.88	0.00	0.00	5.07	2.00
58.00	6.12	1.08	0.00	0.00	5.15	2.00
59.00	6.72	1.54	0.00	0.00	5.26	2.00
60.00	10.86	14.85	0.00	0.00	5.78	2.00
61.00	12.05	2.38	0.00	0.00	6.13	2.00
62.00	12.59	1.22	0.00	0.00	6.17	2.00
63.00	12.94	0.78	0.00	0.00	6.16	2.00
64.00	13.26	0.76	0.00	0.00	6.15	2.00
65.00	13.45	0.46	0.00	0.00	6.12	2.00
66.00	13.64	0.45	0.00	0.00	6.09	2.00

AAC

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
67.00	13.83	0.45	0.00	0.00	6.05	2.00
68.00	14.03	0.45	0.00	0.00	6.02	2.00
69.00	14.15	0.31	0.00	0.00	5.99	2.00
70.00	14.28	0.30	0.00	0.00	5.96	2.00
71.00	14.41	0.30	0.00	0.00	5.94	2.00
72.00	14.54	0.30	0.00	0.00	5.91	2.00
73.00	14.54	0.01	0.00	0.00	5.86	2.00
74.00	14.54	0.00	0.00	0.00	5.81	2.00
75.00	14.54	0.00	0.00	0.00	5.76	2.00
76.00	14.54	0.00	0.00	0.00	5.71	2.00
77.00	14.54	0.00	0.00	0.00	5.66	2.00
78.00	14.54	0.00	0.00	0.00	5.61	2.00
79.00	14.54	0.00	0.00	0.00	5.56	2.00
80.00	14.54	0.00	0.00	0.00	5.51	2.00

Structure: 6

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 7.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.07	0.00	0.00	0.00	2.50	2.00
2.00	0.13	0.00	0.00	0.00	2.50	2.00
3.00	0.20	0.01	0.00	0.00	2.50	2.00
4.00	0.26	0.03	0.00	0.00	2.51	2.00
5.00	0.33	0.05	0.00	0.00	2.52	2.00
6.00	0.39	0.06	0.00	0.00	2.53	2.00
7.00	0.46	0.07	0.00	0.00	2.54	2.00
8.00	0.52	0.08	0.00	0.00	2.56	2.00
9.00	0.59	0.09	0.00	0.00	2.58	2.00
10.00	0.65	0.10	0.00	0.00	2.61	2.00
11.00	0.72	0.10	0.00	0.00	2.63	2.00
12.00	0.78	0.11	0.00	0.00	2.66	2.00
13.00	0.85	0.11	0.00	0.00	2.68	2.00
14.00	0.91	0.11	0.00	0.00	2.71	2.00
15.00	0.98	0.12	0.00	0.00	2.74	2.00
16.00	1.04	0.12	0.00	0.00	2.77	2.00
17.00	1.11	0.12	0.00	0.00	2.80	2.00
18.00	1.17	0.13	0.00	0.00	2.83	2.00
19.00	1.24	0.13	0.00	0.00	2.86	2.00
20.00	1.30	0.13	0.00	0.00	2.89	2.00
21.00	1.37	0.13	0.00	0.00	2.92	2.00
22.00	1.43	0.13	0.00	0.00	2.96	2.00
23.00	1.50	0.13	0.00	0.00	2.99	2.00
24.00	1.56	0.13	0.00	0.00	3.02	2.00
25.00	1.66	0.20	0.00	0.00	3.07	2.00
26.00	1.75	0.20	0.00	0.00	3.12	2.00
27.00	1.85	0.20	0.00	0.00	3.16	2.00
28.00	1.94	0.20	0.00	0.00	3.21	2.00
29.00	2.04	0.21	0.00	0.00	3.27	2.00
30.00	2.13	0.21	0.00	0.00	3.32	2.00
31.00	2.23	0.21	0.00	0.00	3.37	2.00
32.00	2.32	0.21	0.00	0.00	3.42	2.00
33.00	2.42	0.21	0.00	0.00	3.47	2.00
34.00	2.51	0.21	0.00	0.00	3.52	2.00
35.00	2.61	0.21	0.00	0.00	3.57	2.00
36.00	2.70	0.21	0.00	0.00	3.63	2.00
37.00	2.80	0.21	0.00	0.00	3.68	2.00
38.00	2.89	0.21	0.00	0.00	3.73	2.00
39.00	2.99	0.21	0.00	0.00	3.78	2.00
40.00	3.08	0.22	0.00	0.00	3.84	2.00
41.00	3.18	0.22	0.00	0.00	3.89	2.00

AAC

PZ24- 12000027
09/10/2025

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
42.00	3.27	0.22	0.00	0.00	3.94	2.00
43.00	3.37	0.22	0.00	0.00	4.00	2.00
44.00	3.46	0.22	0.00	0.00	4.05	2.00
45.00	3.56	0.22	0.00	0.00	4.10	2.00
46.00	3.65	0.22	0.00	0.00	4.16	2.00
47.00	3.75	0.22	0.00	0.00	4.21	2.00
48.00	3.84	0.22	0.00	0.00	4.26	2.00
49.00	3.95	0.25	0.00	0.00	4.32	2.00
50.00	4.05	0.25	0.00	0.00	4.38	2.00
51.00	4.18	0.30	0.00	0.00	4.45	2.00
52.00	4.32	0.34	0.00	0.00	4.53	2.00
53.00	4.50	0.44	0.00	0.00	4.63	2.00
54.00	4.73	0.54	0.00	0.00	4.75	2.00
55.00	5.00	0.64	0.00	0.00	4.89	2.00
56.00	5.31	0.74	0.00	0.00	5.02	2.00
57.00	5.67	0.88	0.00	0.00	5.07	2.00
58.00	6.12	1.08	0.00	0.00	5.15	2.00
59.00	6.72	1.54	0.00	0.00	5.26	2.00
60.00	10.86	14.85	0.00	0.00	5.78	2.00
61.00	12.05	2.38	0.00	0.00	6.13	2.00
62.00	12.59	1.22	0.00	0.00	6.17	2.00
63.00	12.94	0.78	0.00	0.00	6.16	2.00
64.00	13.26	0.76	0.00	0.00	6.15	2.00
65.00	13.45	0.46	0.00	0.00	6.12	2.00
66.00	13.64	0.45	0.00	0.00	6.09	2.00
67.00	13.83	0.45	0.00	0.00	6.05	2.00
68.00	14.03	0.45	0.00	0.00	6.02	2.00
69.00	14.15	0.31	0.00	0.00	5.99	2.00
70.00	14.28	0.30	0.00	0.00	5.96	2.00
71.00	14.41	0.30	0.00	0.00	5.94	2.00
72.00	14.54	0.30	0.00	0.00	5.91	2.00
73.00	14.54	0.01	0.00	0.00	5.86	2.00
74.00	14.54	0.00	0.00	0.00	5.81	2.00
75.00	14.54	0.00	0.00	0.00	5.76	2.00
76.00	14.54	0.00	0.00	0.00	5.71	2.00
77.00	14.54	0.00	0.00	0.00	5.66	2.00
78.00	14.54	0.00	0.00	0.00	5.61	2.00
79.00	14.54	0.00	0.00	0.00	5.56	2.00
80.00	14.54	0.00	0.00	0.00	5.51	2.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.33	55.80	0.00	0.00
2	0.33	59.80	0.00	0.00
3	0.33	60.40	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
SITE	6.17	62.20	2.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
SITE	2.67	0.00	1.46	0.00	1.21	0.00

AACPZ24- 12000027
09/10/2025

Project Name: 1600 S FEDERAL HWY

Reviewer: BMK

Project Number: 24-1832.00

Period Begin: Jan 01, 2000;0000 hr End: Jan 04, 2000;0800 hr Duration: 80 hr

Time Step: 0.2 hr, Iterations: 10

Basin 1: SITE

Method: Santa Barbara Unit Hydrograph

Rainfall Distribution: SFWMD - 3day

Design Frequency: 100 year

3 Day Rainfall: 18.01 inches

Area: 2.35 acres

Ground Storage: 0.77 inches

Time of Concentration: 0.25 hours

Initial Stage: 2.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
2.50	0.00
5.00	0.84
5.50	1.20
6.00	1.75
6.50	2.45
7.00	3.24
7.50	4.11
8.00	5.05
8.50	6.03

Offsite Receiving Body: Offsitel

Time (hr)	Stage (ft NGVD)
0.00	2.00
80.00	2.00

Structure: 1

From Basin: SITE

To Basin: Offsitel

Structure Type: Pump

On Elev = 5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00



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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.33	0.01	5.00	2.00
52.00	5.35	0.42	0.33	0.03	5.01	2.00
53.00	5.58	0.55	0.33	0.06	5.03	2.00
54.00	5.86	0.67	0.33	0.09	5.06	2.00
55.00	6.19	0.80	0.33	0.12	5.11	2.00
56.00	6.57	0.92	0.33	0.14	5.17	2.00
57.00	7.02	1.10	0.33	0.17	5.25	2.00
58.00	7.58	1.35	0.33	0.20	5.35	2.00
59.00	8.32	1.92	0.33	0.23	5.49	2.00
60.00	13.45	18.43	0.33	0.25	6.02	2.00
61.00	14.92	2.95	0.33	0.28	6.41	2.00
62.00	15.60	1.51	0.33	0.31	6.47	2.00
63.00	16.02	0.97	0.33	0.34	6.47	2.00
64.00	16.42	0.94	0.33	0.36	6.47	2.00
65.00	16.66	0.57	0.33	0.39	6.45	2.00
66.00	16.90	0.56	0.33	0.42	6.43	2.00
67.00	17.14	0.56	0.33	0.45	6.40	2.00
68.00	17.37	0.56	0.33	0.48	6.37	2.00
69.00	17.53	0.38	0.33	0.50	6.34	2.00
70.00	17.69	0.38	0.33	0.53	6.30	2.00
71.00	17.85	0.38	0.33	0.56	6.27	2.00
72.00	18.01	0.38	0.33	0.59	6.23	2.00
73.00	18.01	0.01	0.33	0.61	6.17	2.00
74.00	18.01	0.00	0.33	0.64	6.12	2.00
75.00	18.01	0.00	0.33	0.67	6.06	2.00
76.00	18.01	0.00	0.33	0.70	6.00	2.00
77.00	18.01	0.00	0.33	0.72	5.95	2.00
78.00	18.01	0.00	0.33	0.75	5.90	2.00
79.00	18.01	0.00	0.33	0.78	5.85	2.00
80.00	18.01	0.00	0.33	0.81	5.80	2.00

Structure: 2

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 5.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

AAC**PZ24- 12000027
09/10/2025**

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.00	0.00	5.00	2.00
52.00	5.35	0.42	0.00	0.00	5.01	2.00
53.00	5.58	0.55	0.00	0.00	5.03	2.00
54.00	5.86	0.67	0.00	0.00	5.06	2.00
55.00	6.19	0.80	0.00	0.00	5.11	2.00
56.00	6.57	0.92	0.00	0.00	5.17	2.00
57.00	7.02	1.10	0.00	0.00	5.25	2.00
58.00	7.58	1.35	0.00	0.00	5.35	2.00
59.00	8.32	1.92	0.00	0.00	5.49	2.00
60.00	13.45	18.43	0.33	0.03	6.02	2.00
61.00	14.92	2.95	0.33	0.06	6.41	2.00
62.00	15.60	1.51	0.33	0.08	6.47	2.00
63.00	16.02	0.97	0.33	0.11	6.47	2.00
64.00	16.42	0.94	0.33	0.14	6.47	2.00
65.00	16.66	0.57	0.33	0.17	6.45	2.00
66.00	16.90	0.56	0.33	0.19	6.43	2.00
67.00	17.14	0.56	0.33	0.22	6.40	2.00
68.00	17.37	0.56	0.33	0.25	6.37	2.00



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09/10/2025

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
69.00	17.53	0.38	0.33	0.28	6.34	2.00
70.00	17.69	0.38	0.33	0.30	6.30	2.00
71.00	17.85	0.38	0.33	0.33	6.27	2.00
72.00	18.01	0.38	0.33	0.36	6.23	2.00
73.00	18.01	0.01	0.33	0.39	6.17	2.00
74.00	18.01	0.00	0.33	0.41	6.12	2.00
75.00	18.01	0.00	0.33	0.44	6.06	2.00
76.00	18.01	0.00	0.33	0.47	6.00	2.00
77.00	18.01	0.00	0.33	0.50	5.95	2.00
78.00	18.01	0.00	0.33	0.52	5.90	2.00
79.00	18.01	0.00	0.33	0.55	5.85	2.00
80.00	18.01	0.00	0.33	0.58	5.80	2.00

Structure: 3

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 6 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.00	0.00	5.00	2.00
52.00	5.35	0.42	0.00	0.00	5.01	2.00
53.00	5.58	0.55	0.00	0.00	5.03	2.00
54.00	5.86	0.67	0.00	0.00	5.06	2.00
55.00	6.19	0.80	0.00	0.00	5.11	2.00
56.00	6.57	0.92	0.00	0.00	5.17	2.00
57.00	7.02	1.10	0.00	0.00	5.25	2.00
58.00	7.58	1.35	0.00	0.00	5.35	2.00
59.00	8.32	1.92	0.00	0.00	5.49	2.00
60.00	13.45	18.43	0.33	0.01	6.02	2.00
61.00	14.92	2.95	0.33	0.03	6.41	2.00
62.00	15.60	1.51	0.33	0.06	6.47	2.00
63.00	16.02	0.97	0.33	0.09	6.47	2.00
64.00	16.42	0.94	0.33	0.12	6.47	2.00
65.00	16.66	0.57	0.33	0.14	6.45	2.00
66.00	16.90	0.56	0.33	0.17	6.43	2.00
67.00	17.14	0.56	0.33	0.20	6.40	2.00
68.00	17.37	0.56	0.33	0.23	6.37	2.00
69.00	17.53	0.38	0.33	0.25	6.34	2.00
70.00	17.69	0.38	0.33	0.28	6.30	2.00
71.00	17.85	0.38	0.33	0.31	6.27	2.00
72.00	18.01	0.38	0.33	0.34	6.23	2.00
73.00	18.01	0.01	0.33	0.36	6.17	2.00
74.00	18.01	0.00	0.33	0.39	6.12	2.00
75.00	18.01	0.00	0.33	0.42	6.06	2.00
76.00	18.01	0.00	0.00	0.44	6.00	2.00
77.00	18.01	0.00	0.00	0.44	5.95	2.00
78.00	18.01	0.00	0.00	0.44	5.90	2.00
79.00	18.01	0.00	0.00	0.44	5.85	2.00
80.00	18.01	0.00	0.00	0.44	5.80	2.00

Structure: 4

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 6.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00

AAC

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.00	0.00	5.00	2.00
52.00	5.35	0.42	0.00	0.00	5.01	2.00
53.00	5.58	0.55	0.00	0.00	5.03	2.00
54.00	5.86	0.67	0.00	0.00	5.06	2.00
55.00	6.19	0.80	0.00	0.00	5.11	2.00
56.00	6.57	0.92	0.00	0.00	5.17	2.00
57.00	7.02	1.10	0.00	0.00	5.25	2.00
58.00	7.58	1.35	0.00	0.00	5.35	2.00
59.00	8.32	1.92	0.00	0.00	5.49	2.00
60.00	13.45	18.43	0.00	0.00	6.02	2.00
61.00	14.92	2.95	0.00	0.00	6.41	2.00
62.00	15.60	1.51	0.00	0.00	6.47	2.00
63.00	16.02	0.97	0.00	0.00	6.47	2.00
64.00	16.42	0.94	0.00	0.00	6.47	2.00
65.00	16.66	0.57	0.00	0.00	6.45	2.00
66.00	16.90	0.56	0.00	0.00	6.43	2.00
67.00	17.14	0.56	0.00	0.00	6.40	2.00
68.00	17.37	0.56	0.00	0.00	6.37	2.00
69.00	17.53	0.38	0.00	0.00	6.34	2.00
70.00	17.69	0.38	0.00	0.00	6.30	2.00
71.00	17.85	0.38	0.00	0.00	6.27	2.00
72.00	18.01	0.38	0.00	0.00	6.23	2.00
73.00	18.01	0.01	0.00	0.00	6.17	2.00
74.00	18.01	0.00	0.00	0.00	6.12	2.00
75.00	18.01	0.00	0.00	0.00	6.06	2.00
76.00	18.01	0.00	0.00	0.00	6.00	2.00
77.00	18.01	0.00	0.00	0.00	5.95	2.00
78.00	18.01	0.00	0.00	0.00	5.90	2.00
79.00	18.01	0.00	0.00	0.00	5.85	2.00
80.00	18.01	0.00	0.00	0.00	5.80	2.00

Structure: 5

From Basin: SITE
 To Basin: Offsitel
 Structure Type: Pump

AAC

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On Elev = 7 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.00	0.00	5.00	2.00
52.00	5.35	0.42	0.00	0.00	5.01	2.00
53.00	5.58	0.55	0.00	0.00	5.03	2.00
54.00	5.86	0.67	0.00	0.00	5.06	2.00
55.00	6.19	0.80	0.00	0.00	5.11	2.00
56.00	6.57	0.92	0.00	0.00	5.17	2.00
57.00	7.02	1.10	0.00	0.00	5.25	2.00
58.00	7.58	1.35	0.00	0.00	5.35	2.00
59.00	8.32	1.92	0.00	0.00	5.49	2.00
60.00	13.45	18.43	0.00	0.00	6.02	2.00
61.00	14.92	2.95	0.00	0.00	6.41	2.00
62.00	15.60	1.51	0.00	0.00	6.47	2.00
63.00	16.02	0.97	0.00	0.00	6.47	2.00
64.00	16.42	0.94	0.00	0.00	6.47	2.00
65.00	16.66	0.57	0.00	0.00	6.45	2.00
66.00	16.90	0.56	0.00	0.00	6.43	2.00

AAC

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
67.00	17.14	0.56	0.00	0.00	6.40	2.00
68.00	17.37	0.56	0.00	0.00	6.37	2.00
69.00	17.53	0.38	0.00	0.00	6.34	2.00
70.00	17.69	0.38	0.00	0.00	6.30	2.00
71.00	17.85	0.38	0.00	0.00	6.27	2.00
72.00	18.01	0.38	0.00	0.00	6.23	2.00
73.00	18.01	0.01	0.00	0.00	6.17	2.00
74.00	18.01	0.00	0.00	0.00	6.12	2.00
75.00	18.01	0.00	0.00	0.00	6.06	2.00
76.00	18.01	0.00	0.00	0.00	6.00	2.00
77.00	18.01	0.00	0.00	0.00	5.95	2.00
78.00	18.01	0.00	0.00	0.00	5.90	2.00
79.00	18.01	0.00	0.00	0.00	5.85	2.00
80.00	18.01	0.00	0.00	0.00	5.80	2.00

Structure: 6

From Basin: SITE

To Basin: Offsite1

Structure Type: Pump

On Elev = 7.5 ft NGVD, Off Elev = 8 ft NGVD, Capacity = 150 gpm

Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
0.00	0.00	0.00	0.00	0.00	2.50	2.00
1.00	0.08	0.00	0.00	0.00	2.50	2.00
2.00	0.16	0.00	0.00	0.00	2.50	2.00
3.00	0.24	0.03	0.00	0.00	2.50	2.00
4.00	0.32	0.06	0.00	0.00	2.51	2.00
5.00	0.40	0.08	0.00	0.00	2.53	2.00
6.00	0.48	0.09	0.00	0.00	2.55	2.00
7.00	0.56	0.11	0.00	0.00	2.58	2.00
8.00	0.64	0.12	0.00	0.00	2.60	2.00
9.00	0.73	0.13	0.00	0.00	2.63	2.00
10.00	0.81	0.13	0.00	0.00	2.67	2.00
11.00	0.89	0.14	0.00	0.00	2.70	2.00
12.00	0.97	0.14	0.00	0.00	2.73	2.00
13.00	1.05	0.15	0.00	0.00	2.77	2.00
14.00	1.13	0.15	0.00	0.00	2.81	2.00
15.00	1.21	0.16	0.00	0.00	2.85	2.00
16.00	1.29	0.16	0.00	0.00	2.88	2.00
17.00	1.37	0.16	0.00	0.00	2.92	2.00
18.00	1.45	0.16	0.00	0.00	2.96	2.00
19.00	1.53	0.17	0.00	0.00	3.00	2.00
20.00	1.61	0.17	0.00	0.00	3.05	2.00
21.00	1.69	0.17	0.00	0.00	3.09	2.00
22.00	1.77	0.17	0.00	0.00	3.13	2.00
23.00	1.85	0.17	0.00	0.00	3.17	2.00
24.00	1.93	0.17	0.00	0.00	3.21	2.00
25.00	2.05	0.25	0.00	0.00	3.27	2.00
26.00	2.17	0.26	0.00	0.00	3.33	2.00
27.00	2.29	0.26	0.00	0.00	3.40	2.00
28.00	2.41	0.26	0.00	0.00	3.46	2.00
29.00	2.52	0.26	0.00	0.00	3.52	2.00
30.00	2.64	0.26	0.00	0.00	3.59	2.00
31.00	2.76	0.26	0.00	0.00	3.65	2.00
32.00	2.88	0.26	0.00	0.00	3.72	2.00
33.00	2.99	0.27	0.00	0.00	3.78	2.00
34.00	3.11	0.27	0.00	0.00	3.85	2.00
35.00	3.23	0.27	0.00	0.00	3.92	2.00
36.00	3.35	0.27	0.00	0.00	3.98	2.00
37.00	3.46	0.27	0.00	0.00	4.05	2.00
38.00	3.58	0.27	0.00	0.00	4.11	2.00
39.00	3.70	0.27	0.00	0.00	4.18	2.00
40.00	3.82	0.27	0.00	0.00	4.25	2.00
41.00	3.93	0.27	0.00	0.00	4.31	2.00

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Time (hr)	Cumulative Rainfall (in)	Instant Runoff (cfs)	Current Discharge (cfs)	Cumulative Discharge (acre-ft)	Head Water Stage (ft NGVD)	Tail Water Stage (ft NGVD)
42.00	4.05	0.27	0.00	0.00	4.38	2.00
43.00	4.17	0.27	0.00	0.00	4.45	2.00
44.00	4.29	0.27	0.00	0.00	4.51	2.00
45.00	4.40	0.27	0.00	0.00	4.58	2.00
46.00	4.52	0.27	0.00	0.00	4.65	2.00
47.00	4.64	0.27	0.00	0.00	4.71	2.00
48.00	4.76	0.27	0.00	0.00	4.78	2.00
49.00	4.89	0.31	0.00	0.00	4.85	2.00
50.00	5.02	0.31	0.00	0.00	4.93	2.00
51.00	5.18	0.37	0.00	0.00	5.00	2.00
52.00	5.35	0.42	0.00	0.00	5.01	2.00
53.00	5.58	0.55	0.00	0.00	5.03	2.00
54.00	5.86	0.67	0.00	0.00	5.06	2.00
55.00	6.19	0.80	0.00	0.00	5.11	2.00
56.00	6.57	0.92	0.00	0.00	5.17	2.00
57.00	7.02	1.10	0.00	0.00	5.25	2.00
58.00	7.58	1.35	0.00	0.00	5.35	2.00
59.00	8.32	1.92	0.00	0.00	5.49	2.00
60.00	13.45	18.43	0.00	0.00	6.02	2.00
61.00	14.92	2.95	0.00	0.00	6.41	2.00
62.00	15.60	1.51	0.00	0.00	6.47	2.00
63.00	16.02	0.97	0.00	0.00	6.47	2.00
64.00	16.42	0.94	0.00	0.00	6.47	2.00
65.00	16.66	0.57	0.00	0.00	6.45	2.00
66.00	16.90	0.56	0.00	0.00	6.43	2.00
67.00	17.14	0.56	0.00	0.00	6.40	2.00
68.00	17.37	0.56	0.00	0.00	6.37	2.00
69.00	17.53	0.38	0.00	0.00	6.34	2.00
70.00	17.69	0.38	0.00	0.00	6.30	2.00
71.00	17.85	0.38	0.00	0.00	6.27	2.00
72.00	18.01	0.38	0.00	0.00	6.23	2.00
73.00	18.01	0.01	0.00	0.00	6.17	2.00
74.00	18.01	0.00	0.00	0.00	6.12	2.00
75.00	18.01	0.00	0.00	0.00	6.06	2.00
76.00	18.01	0.00	0.00	0.00	6.00	2.00
77.00	18.01	0.00	0.00	0.00	5.95	2.00
78.00	18.01	0.00	0.00	0.00	5.90	2.00
79.00	18.01	0.00	0.00	0.00	5.85	2.00
80.00	18.01	0.00	0.00	0.00	5.80	2.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.33	51.00	0.00	0.00
2	0.33	59.20	0.00	0.00
3	0.33	60.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
SITE	6.47	62.80	2.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
SITE	3.35	0.00	1.82	0.00	1.53	0.00

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