

MADISON TERRACE
City of Lake Worth Beach, FL

WATER MANAGEMENT REPORT

PREPARED FOR:

**Madison Terrace, LLC
558 W New England Ave, Suite 230
Winter Park, FL 32789**

JOB NO. 23-064

**DATE: July 2024
Revised February 2025**

Gregory F. Bolen, Professional Engineer, State of Florida, License No.56729

This item has been digitally signed and sealed by Gregory F. Bolen, P.E., on 2/7/2025.

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1.0 Project Summary

The project is located at 821 South Dixie Hwy in Lake Worth, Florida. The proposed project consists of two 6-story residential buildings, a stormwater management system, and associated parking.

The SWM system will consist of catch basins, storm sewer pipes, a dry detention area, and exfiltration trench discharging through a control structure and connecting to the City of Lake Worth Beach drainage system on the south side of the property on 9th Ave. S. Exfiltration trench is proposed for water quality and stormwater attenuation. The control elevation for the site is 8.90 NAVD, which is the invert elevation at the outfall connection. The water table is approximately 6.50 NAVD. All elevations in this report are in the NAVD 88 datum.

2.0 Land Use

<u>Land Use Type</u>	<u>Existing Area (Acres)</u>	<u>Proposed Area (Acres)</u>	<u>Grading (NAVD 88)</u>
Building	0.09	0.30	FFE = 15.5
**Impervious	0.81	1.05	13.5 – 15.5
Pervious	0.98	0.43	13.5 – 15.0
Dry Detention Bottom	-	0.07	8.9 – Up
Dry Detention Bank	-	0.02	12.8 – 14.3
Dry Detention Bottom	-	0.01	12.8 – Up
Total	1.88	1.88	

** Includes 0.28 acres of Covered Area

3.0 Proposed Soil Storage:

(Ground storage on site per existing land use and SFWMD coastal compacted soils chart)

$$[(0.07 \text{ ac} * 3.108'') + (0.46 \text{ ac} * 8.18'')]/ 1.88 \text{ ac} \\ = 2.12''$$

4.0 Water Quality Calculations:

The site is located in WBID 3226F2, which is listed as an impaired water body. An additional 150% of water quality will be provided.

A) 1" Over Entire Site:

$$1.88 \text{ ac} (1'') \times 150\% \\ = 2.82 \text{ ac-in} = 0.24 \text{ ac-ft (met in trench)}$$

B) 2.5" * 150% Impervious:

$$(0.77\text{ac})/((1.88\text{ac} - 0.58\text{ac}) \times 2\frac{1}{2}'' \times (1.88\text{ac})) \\ = 2.78 \text{ ac-in} * 150\% \text{ (Impaired Water Body**) } \\ = 4.18 \text{ ac-in} = \underline{0.35 \text{ ac-ft}}$$

Water Quality is provided in 211 LF of 5'x10' Exfiltration Trench

5.0 Pre-Post Discharge Calculations

The project will be designed to reduce the total discharge from the site during the design storm events (100 year 3 day, 25 year 3 day and 5 year 1 day) through the use of underground exfiltration trench and dry detention. The below calculations include existing and proposed stormwater runoff conditions:

(Based on "I" = 10 min. Time of Concentration for FDOT Zone 10 IDF Curve)

Pre-Condition

The proposed drainage system is designed to limit the post development discharge to that of the predevelopment up to and including the 100 year – 3 day storm. The Existing Drainage Map (Appendix A) shows that approximately 0.39 acres from the site sheet flows to the City of Lake Worth Beach Drainage System, which is where our system is designed to outfall to.

Q	=	C I A
5 Yr – 1 Day	=	(0.70)(7.2 In/Hr)(0.39 Ac) = 1.97 cfs
25 Yr – 3 Day	=	(0.70)(8.5 In/Hr)(0.39 Ac) = 2.32 cfs
100 Yr – 3 Day	=	(0.70)(10 In/Hr)(0.39 Ac) = 2.73 cfs

Post Condition

See attached Cascade Routing

5 Yr – 1 Day	=	0.33 cfs
25 Yr – 3 Day	=	0.54 cfs
100 Yr – 3 Day	=	NA

As shown above, the discharge rates in the post condition are less than in the pre-condition.

6.0 Proposed Stage/Storage/Discharge Summary:

Design Storm	Rainfall (in.)	Max Stage (ft.)	Project Criteria	Discharge (cfs)
5 year – 1 day	7.0	10.97	Min. Onsite Rd. = 13.50	0.33
25 year – 3 day	13.0	14.29	Min. Perimeter Berm = 14.30	0.54
100 year – 3 day	18.0	15.43	Min FFE = 15.50	NA

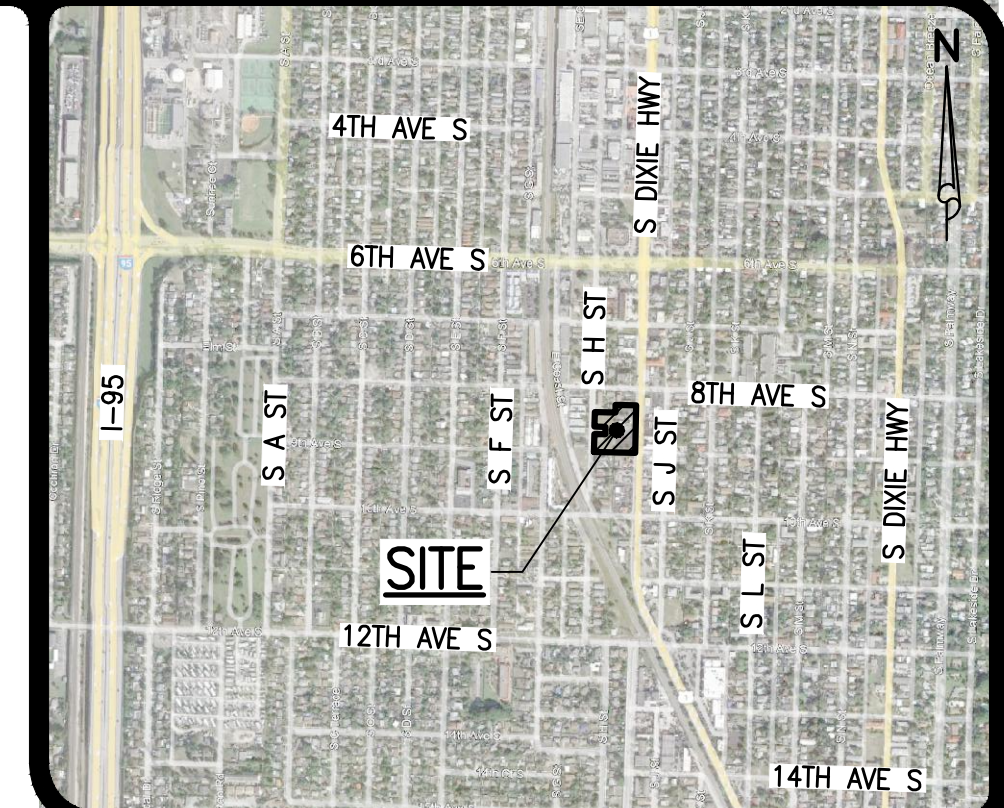
7.0 Conclusion :

As shown in the report, parking lots are protected from flooding during a 5-year, 1 day rainfall event, no runoff is to leave the site except through an approved control structure up to the level produced by the 25-year, 3 day rainfall event, and building floor elevations are protected from 100-year, 3 day rainfall event. Water quality is met onsite by exfiltration trench.

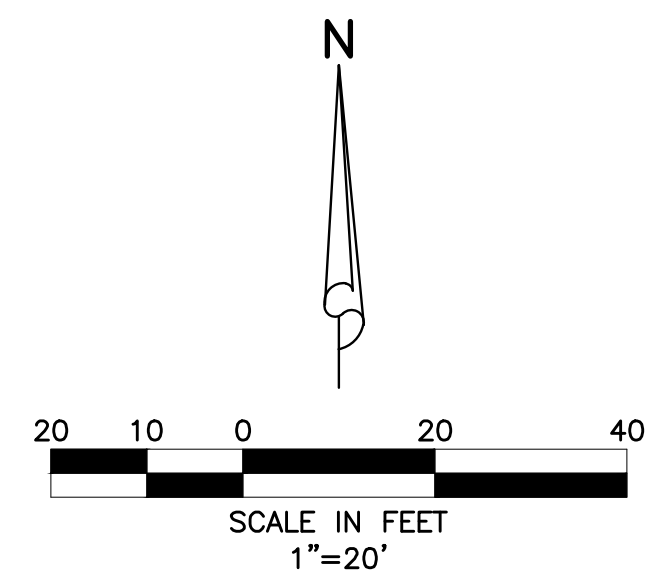


APPENDIX A

Existing Drainage Map

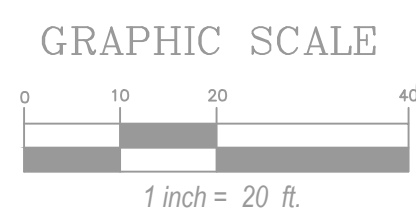


LOCATION MAP
NOT TO SCALE



LEGEND

- +13.60 EXISTING GRADE ELEVATION
- EXISTING FLOW DIRECTION
- EXISTING 1' CONTOUR AND ELEVATION
- EXISTING 0.5' CONTOUR AND ELEVATION
- BASIN LINE
- EXISTING BASIN (0.39 ACRES)



NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY PRINCIPAL MERIDIAN SURVEYING, INC. (561) 478-7764.

5/23/2024



**SIMMONS
& WHITE**
2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

MADISON TERRACE
SECTION 28, TOWNSHIP 44S., RANGE 43E.
CITY OF LAKE WORTH, FLORIDA
EXISTING DRAINAGE MAP

REVISIONS					DESIGN E.V.	DRAWN D.B.	CHECKED	APPROVED	DATE	JOB NO. 23-064	DRAWING NO. 23064Z02	SHEET 1 OF 1
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APPENDIX B

Stage Storage Sheet

STAGE STORAGE TABLE (PROPOSED CONSTRUCTION)

Stage (ac-ft)	Site Storage (ac-ft)	Exfiltration Trench Storage WQ (ac-ft)	Exfiltration Trench Storage Attenuation (ac-ft)	Total (ac-ft)
6.5	0.00	0.00	0.00	0.00
7	0.00	0.04	0.01	0.04
7.5	0.00	0.07	0.02	0.09
8	0.00	0.11	0.03	0.13
8.5	0.00	0.14	0.04	0.18
9	0.01	0.18	0.05	0.23
9.5	0.04	0.21	0.05	0.30
10	0.08	0.25	0.06	0.39
10.5	0.11	0.28	0.07	0.46
11	0.15	0.32	0.08	0.55
11.5	0.18	0.35	0.09	0.62
12	0.22	0.35	0.09	0.66
12.5	0.25	0.35	0.09	0.69
13	0.29	0.35	0.09	0.73
13.5	0.33	0.35	0.09	0.77
14	0.48	0.35	0.09	0.92
14.5	0.83	0.35	0.09	1.27
15	1.39	0.35	0.09	1.83
15.5	2.12	0.35	0.09	2.56



APPENDIX C

Exfiltration Trench Calculations

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Water Quality

SIMMONS & WHITE INC.

2581 Metrocentre Blvd, Suite 3
WEST PALM BEACH, FLORIDA 33407

CERTIFICATE OF AUTHORIZATION #3452

**EXFILTRATION TRENCH LENGTH CALCULATION
(WATER QUALITY)**

Madison Terrace

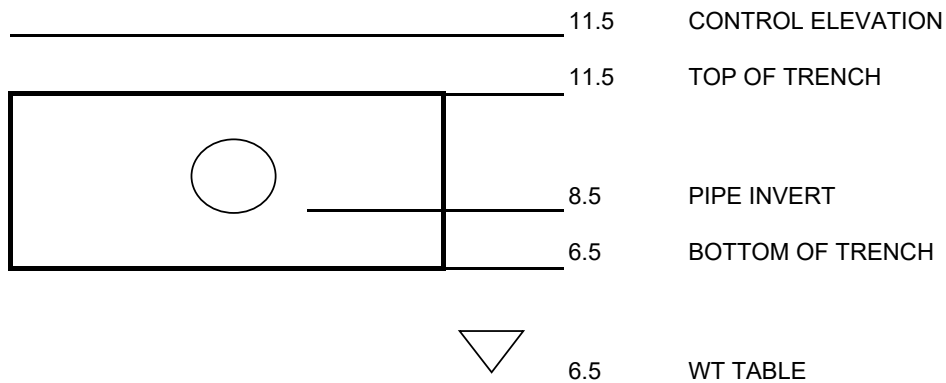
JOB NO: 23-064

DATE: 6/6/2023

Rev: 2/4/2025

$$L = \frac{V}{K(H_2 W + 2 H_2 D_U - D_U^2 + 2 H_2 D_S) + (1.39 \times 10^{-4}) W D_U}$$

V= VOLUME TO BE TREATED	0.35 AC-FT
V= VOLUME TO BE TREATED	4.18 AC-IN
W= WIDTH OF TRENCH	10 FT
K= HYDRAULIC CONDUCTIVITY	0.000172 CFS/SF-FT
H2= DEPTH TO WATER TABLE FROM CONTROL ELEVATION	5.0 FT
DU= NON-SATURATED TRENCH DEPTH	5.0 FT
DS= SATURATED TRENCH DEPTH	0.0 FT
L= REQUIRED TRENCH LENGTH	<u>211 FT</u>





APPENDIX D

Exfiltration Trench Calculations

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Attenuation

SIMMONS & WHITE INC.

2581 Metrocentre Blvd West, Ste 3
WEST PALM BEACH, FLORIDA 33407

CERTIFICATE OF AUTHORIZATION #3452

**EXFILTRATION TRENCH LENGTH CALCULATION
(ATTENUATION)**

Madison Terrace

JOB NO: 23-064

DATE: 6/6/2023

REV: 2/4/2025

$$L = \frac{V}{K(H_2 W + 2 H_2 D_U - D_U^2 + 2 H_2 D_S) + (1.39 \times 10^{-4}) W D_U}$$

V= VOLUME TO BE TREATED

0.09 AC-FT

V= VOLUME TO BE TREATED

1.08 AC-IN

W= WIDTH OF TRENCH

10 FT

K= HYDRAULIC CONDUCTIVITY

0.000172 CFS/SF-FT

H2= DEPTH TO WATER TABLE FROM CONTROL ELEVATION

5.0 FT

DU= NON-SATURATED TRENCH DEPTH

5.0 FT

DS= SATURATED TRENCH DEPTH

0.0 FT

L= TRENCH LENGTH

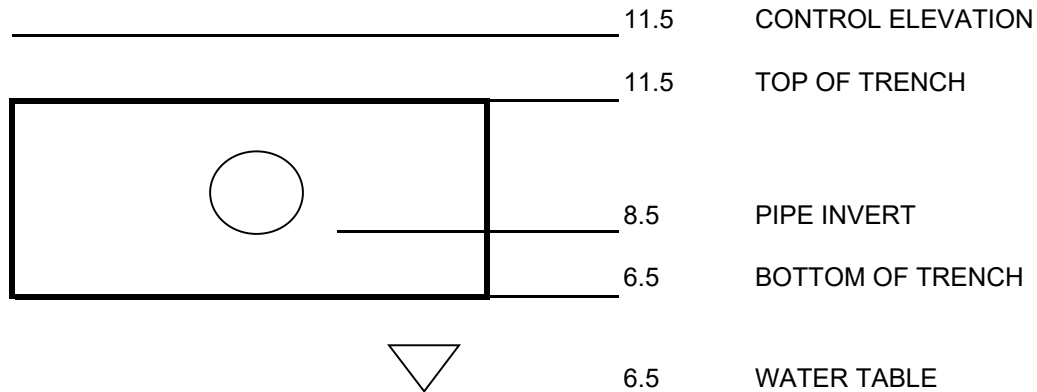
54 FT

FS= SAFETY FACTOR

2.00

L= REQUIRED TRENCH LENGTH

109 FT





APPENDIX E

Cascade Flood Routings

Project Name: Madison Terrace

Reviewer: EV

Project Number: 23-064

Period Begin: Jan 01, 2000;0000 hr End: Jan 06, 2000;0000 hr Duration: 120 hr

Time Step: 0.016 hr, Iterations: 10

Basin 1: Basin 1

Method: Santa Barbara Unit Hydrograph

Rainfall Distribution: SFWMD - 24 hr

Design Frequency: 5 year

1 Day Rainfall: 7 inches

Area: 1.88 acres

Ground Storage: 2.12 inches

Time of Concentration: 0.5 hours

Initial Stage: 6.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
6.50	0.00
7.00	0.04
7.50	0.09
8.00	0.13
8.50	0.18
9.00	0.23
9.50	0.30
10.00	0.39
10.50	0.46
11.00	0.55
11.50	0.62
12.00	0.66
12.50	0.69
13.00	0.73
13.50	0.77
14.00	0.92
14.50	1.27
15.00	1.83
15.50	2.56

Offsite Receiving Body: Offsitel

Time (hr)	Stage (ft NGVD)
0.00	8.90
120.00	8.90

Structure: 1

From Basin: Basin 1

To Basin: Offsitel

Structure Type: Gravity

Weir: Sharp Crested, Crest Elev = 14.3 ft NGVD, Length = 4.5 ft

Bleeder: Circular, Invert Elev = 8.9 ft NGVD, Diameter = 0.25 ft

Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6

Pipe: Diameter = 1.5 ft, Manning's n = 0.013, Length = 10 ft

US Invert Elev = 9 ft NGVD, DS Invert Elev = 8.9 ft NGVD, no flap gate

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	6.50	8.90
1.00	0.07	0.00	0.00	0.00	6.50	8.90
2.00	0.14	0.00	0.00	0.00	6.50	8.90
3.00	0.22	0.00	0.00	0.00	6.50	8.90
4.00	0.31	0.00	0.00	0.00	6.50	8.90
5.00	0.43	0.00	0.00	0.00	6.50	8.90
6.00	0.58	0.02	0.00	0.00	6.51	8.90

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)
7.00	0.76	0.07	0.00	0.00	6.55	8.90
8.00	0.96	0.12	0.00	0.00	6.65	8.90
9.00	1.20	0.19	0.00	0.00	6.81	8.90
10.00	1.49	0.28	0.00	0.00	7.04	8.90
11.00	1.88	0.46	0.00	0.00	7.34	8.90
12.00	4.59	4.97	0.01	0.00	8.97	8.90
13.00	5.37	1.65	0.28	0.02	10.47	8.90
14.00	5.73	0.74	0.32	0.04	10.84	8.90
15.00	5.95	0.43	0.33	0.07	10.94	8.90
16.00	6.16	0.38	0.33	0.10	10.97	8.90
17.00	6.29	0.24	0.33	0.12	10.95	8.90
18.00	6.41	0.23	0.32	0.15	10.90	8.90
19.00	6.54	0.22	0.32	0.18	10.86	8.90
20.00	6.66	0.22	0.32	0.20	10.82	8.90
21.00	6.75	0.16	0.31	0.23	10.76	8.90
22.00	6.83	0.15	0.30	0.25	10.68	8.90
23.00	6.92	0.15	0.30	0.28	10.61	8.90
24.00	7.00	0.15	0.29	0.30	10.55	8.90
25.00	7.00	0.02	0.28	0.33	10.43	8.90
26.00	7.00	0.00	0.26	0.35	10.28	8.90
27.00	7.00	0.00	0.25	0.37	10.12	8.90
28.00	7.00	0.00	0.23	0.39	9.99	8.90
29.00	7.00	0.00	0.22	0.41	9.88	8.90
30.00	7.00	0.00	0.21	0.43	9.79	8.90
31.00	7.00	0.00	0.19	0.44	9.69	8.90
32.00	7.00	0.00	0.18	0.46	9.61	8.90
33.00	7.00	0.00	0.17	0.47	9.53	8.90
34.00	7.00	0.00	0.15	0.49	9.44	8.90
35.00	7.00	0.00	0.14	0.50	9.36	8.90
36.00	7.00	0.00	0.12	0.51	9.28	8.90
37.00	7.00	0.00	0.10	0.52	9.22	8.90
38.00	7.00	0.00	0.09	0.53	9.16	8.90
39.00	7.00	0.00	0.06	0.53	9.12	8.90
40.00	7.00	0.00	0.05	0.54	9.08	8.90
41.00	7.00	0.00	0.04	0.54	9.06	8.90
42.00	7.00	0.00	0.03	0.54	9.04	8.90
43.00	7.00	0.00	0.02	0.55	9.02	8.90
44.00	7.00	0.00	0.02	0.55	9.01	8.90
45.00	7.00	0.00	0.02	0.55	9.00	8.90
46.00	7.00	0.00	0.01	0.55	8.98	8.90
47.00	7.00	0.00	0.01	0.55	8.98	8.90
48.00	7.00	0.00	0.01	0.55	8.97	8.90
49.00	7.00	0.00	0.01	0.55	8.96	8.90
50.00	7.00	0.00	0.01	0.55	8.96	8.90
51.00	7.00	0.00	0.00	0.55	8.95	8.90
52.00	7.00	0.00	0.00	0.55	8.95	8.90
53.00	7.00	0.00	0.00	0.55	8.95	8.90
54.00	7.00	0.00	0.00	0.55	8.94	8.90
55.00	7.00	0.00	0.00	0.55	8.94	8.90
56.00	7.00	0.00	0.00	0.56	8.94	8.90
57.00	7.00	0.00	0.00	0.56	8.94	8.90
58.00	7.00	0.00	0.00	0.56	8.93	8.90
59.00	7.00	0.00	0.00	0.56	8.93	8.90
60.00	7.00	0.00	0.00	0.56	8.93	8.90
61.00	7.00	0.00	0.00	0.56	8.93	8.90
62.00	7.00	0.00	0.00	0.56	8.93	8.90
63.00	7.00	0.00	0.00	0.56	8.93	8.90
64.00	7.00	0.00	0.00	0.56	8.93	8.90
65.00	7.00	0.00	0.00	0.56	8.92	8.90
66.00	7.00	0.00	0.00	0.56	8.92	8.90
67.00	7.00	0.00	0.00	0.56	8.92	8.90
68.00	7.00	0.00	0.00	0.56	8.92	8.90
69.00	7.00	0.00	0.00	0.56	8.92	8.90
70.00	7.00	0.00	0.00	0.56	8.92	8.90
71.00	7.00	0.00	0.00	0.56	8.92	8.90
72.00	7.00	0.00	0.00	0.56	8.92	8.90
73.00	7.00	0.00	0.00	0.56	8.92	8.90
74.00	7.00	0.00	0.00	0.56	8.92	8.90
75.00	7.00	0.00	0.00	0.56	8.92	8.90

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)
76.00	7.00	0.00	0.00	0.56	8.92	8.90
77.00	7.00	0.00	0.00	0.56	8.92	8.90
78.00	7.00	0.00	0.00	0.56	8.92	8.90
79.00	7.00	0.00	0.00	0.56	8.92	8.90
80.00	7.00	0.00	0.00	0.56	8.92	8.90
81.00	7.00	0.00	0.00	0.56	8.92	8.90
82.00	7.00	0.00	0.00	0.56	8.92	8.90
83.00	7.00	0.00	0.00	0.56	8.91	8.90
84.00	7.00	0.00	0.00	0.56	8.91	8.90
85.00	7.00	0.00	0.00	0.56	8.91	8.90
86.00	7.00	0.00	0.00	0.56	8.91	8.90
87.00	7.00	0.00	0.00	0.56	8.91	8.90
88.00	7.00	0.00	0.00	0.56	8.91	8.90
89.00	7.00	0.00	0.00	0.56	8.91	8.90
90.00	7.00	0.00	0.00	0.56	8.91	8.90
91.00	7.00	0.00	0.00	0.56	8.91	8.90
92.00	7.00	0.00	0.00	0.56	8.91	8.90
93.00	7.00	0.00	0.00	0.56	8.91	8.90
94.00	7.00	0.00	0.00	0.56	8.91	8.90
95.00	7.00	0.00	0.00	0.56	8.91	8.90
96.00	7.00	0.00	0.00	0.56	8.91	8.90
97.00	7.00	0.00	0.00	0.56	8.91	8.90
98.00	7.00	0.00	0.00	0.56	8.91	8.90
99.00	7.00	0.00	0.00	0.56	8.91	8.90
100.00	7.00	0.00	0.00	0.56	8.91	8.90
101.00	7.00	0.00	0.00	0.56	8.91	8.90
102.00	7.00	0.00	0.00	0.56	8.91	8.90
103.00	7.00	0.00	0.00	0.56	8.91	8.90
104.00	7.00	0.00	0.00	0.56	8.91	8.90
105.00	7.00	0.00	0.00	0.56	8.91	8.90
106.00	7.00	0.00	0.00	0.56	8.91	8.90
107.00	7.00	0.00	0.00	0.56	8.91	8.90
108.00	7.00	0.00	0.00	0.56	8.91	8.90
109.00	7.00	0.00	0.00	0.56	8.91	8.90
110.00	7.00	0.00	0.00	0.56	8.91	8.90
111.00	7.00	0.00	0.00	0.56	8.91	8.90
112.00	7.00	0.00	0.00	0.56	8.91	8.90
113.00	7.00	0.00	0.00	0.56	8.91	8.90
114.00	7.00	0.00	0.00	0.56	8.91	8.90
115.00	7.00	0.00	0.00	0.56	8.91	8.90
116.00	7.00	0.00	0.00	0.56	8.91	8.90
117.00	7.00	0.00	0.00	0.56	8.91	8.90
118.00	7.00	0.00	0.00	0.56	8.91	8.90
119.00	7.00	0.00	0.00	0.56	8.91	8.90
120.00	7.00	0.00	0.00	0.56	8.91	8.90

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.33	16.18	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Basin 1	10.97	16.18	6.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Basin 1	0.78	0.00	0.56	0.00	0.22	0.00

Project Name: Madison Terrace

Reviewer: EV

Project Number: 23-064

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr

Time Step: 0.016 hr, Iterations: 10

Basin 1: Basin 1

Method: Santa Barbara Unit Hydrograph

Rainfall Distribution: SFWMD - 3day

Design Frequency: 25 year

3 Day Rainfall: 13 inches

Area: 1.88 acres

Ground Storage: 2.12 inches

Time of Concentration: 0.5 hours

Initial Stage: 6.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
6.50	0.00
7.00	0.04
7.50	0.09
8.00	0.13
8.50	0.18
9.00	0.23
9.50	0.30
10.00	0.39
10.50	0.46
11.00	0.55
11.50	0.62
12.00	0.66
12.50	0.69
13.00	0.73
13.50	0.77
14.00	0.92
14.50	1.27
15.00	1.83
15.50	2.56

Offsite Receiving Body: Offsitel

Time (hr)	Stage (ft NGVD)
0.00	8.90
360.00	8.90

Structure: 1

From Basin: Basin 1

To Basin: Offsitel

Structure Type: Gravity

Weir: Sharp Crested, Crest Elev = 14.3 ft NGVD, Length = 4.5 ft

Bleeder: Circular, Invert Elev = 8.9 ft NGVD, Diameter = 0.25 ft

Default Coefs: Weir Coef = 0.6, Orifice Coef = 0.6

Pipe: Diameter = 1.5 ft, Manning's n = 0.013, Length = 10 ft

US Invert Elev = 9 ft NGVD, DS Invert Elev = 8.9 ft NGVD, no flap gate

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	6.50	8.90
1.00	0.06	0.00	0.00	0.00	6.50	8.90
2.00	0.12	0.00	0.00	0.00	6.50	8.90
3.00	0.17	0.00	0.00	0.00	6.50	8.90
4.00	0.23	0.00	0.00	0.00	6.50	8.90
5.00	0.29	0.00	0.00	0.00	6.50	8.90
6.00	0.35	0.00	0.00	0.00	6.50	8.90

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)
7.00	0.41	0.00	0.00	0.00	6.50	8.90
8.00	0.47	0.00	0.00	0.00	6.50	8.90
9.00	0.52	0.01	0.00	0.00	6.51	8.90
10.00	0.58	0.01	0.00	0.00	6.52	8.90
11.00	0.64	0.02	0.00	0.00	6.53	8.90
12.00	0.70	0.02	0.00	0.00	6.55	8.90
13.00	0.76	0.03	0.00	0.00	6.57	8.90
14.00	0.81	0.03	0.00	0.00	6.60	8.90
15.00	0.87	0.03	0.00	0.00	6.64	8.90
16.00	0.93	0.04	0.00	0.00	6.67	8.90
17.00	0.99	0.04	0.00	0.00	6.71	8.90
18.00	1.05	0.04	0.00	0.00	6.76	8.90
19.00	1.11	0.05	0.00	0.00	6.80	8.90
20.00	1.16	0.05	0.00	0.00	6.85	8.90
21.00	1.22	0.05	0.00	0.00	6.90	8.90
22.00	1.28	0.05	0.00	0.00	6.95	8.90
23.00	1.34	0.06	0.00	0.00	7.01	8.90
24.00	1.40	0.06	0.00	0.00	7.06	8.90
25.00	1.48	0.08	0.00	0.00	7.12	8.90
26.00	1.57	0.09	0.00	0.00	7.19	8.90
27.00	1.65	0.09	0.00	0.00	7.27	8.90
28.00	1.74	0.10	0.00	0.00	7.35	8.90
29.00	1.82	0.10	0.00	0.00	7.43	8.90
30.00	1.91	0.10	0.00	0.00	7.52	8.90
31.00	1.99	0.11	0.00	0.00	7.62	8.90
32.00	2.08	0.11	0.00	0.00	7.73	8.90
33.00	2.16	0.11	0.00	0.00	7.85	8.90
34.00	2.25	0.11	0.00	0.00	7.96	8.90
35.00	2.33	0.12	0.00	0.00	8.07	8.90
36.00	2.42	0.12	0.00	0.00	8.16	8.90
37.00	2.50	0.12	0.00	0.00	8.26	8.90
38.00	2.59	0.12	0.00	0.00	8.36	8.90
39.00	2.67	0.12	0.00	0.00	8.46	8.90
40.00	2.75	0.12	0.00	0.00	8.56	8.90
41.00	2.84	0.13	0.00	0.00	8.66	8.90
42.00	2.92	0.13	0.00	0.00	8.77	8.90
43.00	3.01	0.13	0.00	0.00	8.87	8.90
44.00	3.09	0.13	0.01	0.00	8.98	8.90
45.00	3.18	0.13	0.03	0.00	9.05	8.90
46.00	3.26	0.13	0.06	0.01	9.10	8.90
47.00	3.35	0.13	0.07	0.01	9.14	8.90
48.00	3.43	0.13	0.09	0.02	9.17	8.90
49.00	3.53	0.15	0.10	0.03	9.19	8.90
50.00	3.63	0.15	0.11	0.03	9.22	8.90
51.00	3.74	0.18	0.11	0.04	9.26	8.90
52.00	3.86	0.20	0.12	0.05	9.30	8.90
53.00	4.03	0.26	0.14	0.06	9.36	8.90
54.00	4.23	0.33	0.15	0.08	9.45	8.90
55.00	4.47	0.39	0.17	0.09	9.55	8.90
56.00	4.74	0.46	0.19	0.10	9.67	8.90
57.00	5.07	0.55	0.21	0.12	9.81	8.90
58.00	5.47	0.69	0.23	0.14	10.00	8.90
59.00	6.01	0.95	0.27	0.16	10.32	8.90
60.00	9.71	7.89	0.42	0.19	12.21	8.90
61.00	10.77	2.51	0.53	0.23	14.13	8.90
62.00	11.26	1.08	0.54	0.27	14.26	8.90
63.00	11.57	0.62	0.54	0.32	14.29	8.90
64.00	11.85	0.54	0.54	0.36	14.29	8.90
65.00	12.02	0.35	0.54	0.41	14.28	8.90
66.00	12.20	0.32	0.54	0.45	14.25	8.90
67.00	12.37	0.32	0.54	0.50	14.23	8.90
68.00	12.54	0.32	0.54	0.54	14.20	8.90
69.00	12.66	0.23	0.54	0.59	14.17	8.90
70.00	12.77	0.21	0.53	0.63	14.13	8.90
71.00	12.89	0.21	0.53	0.67	14.09	8.90
72.00	13.00	0.21	0.53	0.72	14.06	8.90
73.00	13.00	0.03	0.53	0.76	14.01	8.90
74.00	13.00	0.00	0.52	0.80	13.87	8.90
75.00	13.00	0.00	0.51	0.85	13.73	8.90

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)
76.00	13.00	0.00	0.50	0.89	13.59	8.90
77.00	13.00	0.00	0.49	0.93	13.32	8.90
78.00	13.00	0.00	0.46	0.97	12.83	8.90
79.00	13.00	0.00	0.43	1.01	12.32	8.90
80.00	13.00	0.00	0.39	1.04	11.82	8.90
81.00	13.00	0.00	0.37	1.07	11.46	8.90
82.00	13.00	0.00	0.35	1.10	11.24	8.90
83.00	13.00	0.00	0.34	1.13	11.04	8.90
84.00	13.00	0.00	0.32	1.16	10.88	8.90
85.00	13.00	0.00	0.31	1.18	10.74	8.90
86.00	13.00	0.00	0.30	1.21	10.60	8.90
87.00	13.00	0.00	0.28	1.23	10.45	8.90
88.00	13.00	0.00	0.27	1.25	10.29	8.90
89.00	13.00	0.00	0.25	1.28	10.14	8.90
90.00	13.00	0.00	0.23	1.30	10.00	8.90
91.00	13.00	0.00	0.22	1.31	9.89	8.90
92.00	13.00	0.00	0.21	1.33	9.80	8.90
93.00	13.00	0.00	0.19	1.35	9.70	8.90
94.00	13.00	0.00	0.18	1.36	9.62	8.90
95.00	13.00	0.00	0.17	1.38	9.54	8.90
96.00	13.00	0.00	0.15	1.39	9.45	8.90
97.00	13.00	0.00	0.14	1.40	9.36	8.90
98.00	13.00	0.00	0.12	1.42	9.29	8.90
99.00	13.00	0.00	0.10	1.42	9.22	8.90
100.00	13.00	0.00	0.09	1.43	9.16	8.90
101.00	13.00	0.00	0.07	1.44	9.12	8.90
102.00	13.00	0.00	0.05	1.44	9.08	8.90
103.00	13.00	0.00	0.04	1.45	9.06	8.90
104.00	13.00	0.00	0.03	1.45	9.04	8.90
105.00	13.00	0.00	0.02	1.45	9.02	8.90
106.00	13.00	0.00	0.02	1.45	9.01	8.90
107.00	13.00	0.00	0.02	1.46	9.00	8.90
108.00	13.00	0.00	0.01	1.46	8.99	8.90
109.00	13.00	0.00	0.01	1.46	8.98	8.90
110.00	13.00	0.00	0.01	1.46	8.97	8.90
111.00	13.00	0.00	0.01	1.46	8.96	8.90
112.00	13.00	0.00	0.01	1.46	8.96	8.90
113.00	13.00	0.00	0.01	1.46	8.95	8.90
114.00	13.00	0.00	0.00	1.46	8.95	8.90
115.00	13.00	0.00	0.00	1.46	8.95	8.90
116.00	13.00	0.00	0.00	1.46	8.94	8.90
117.00	13.00	0.00	0.00	1.46	8.94	8.90
118.00	13.00	0.00	0.00	1.46	8.94	8.90
119.00	13.00	0.00	0.00	1.46	8.94	8.90
120.00	13.00	0.00	0.00	1.46	8.93	8.90
121.00	13.00	0.00	0.00	1.46	8.93	8.90
122.00	13.00	0.00	0.00	1.46	8.93	8.90
123.00	13.00	0.00	0.00	1.46	8.93	8.90
124.00	13.00	0.00	0.00	1.46	8.93	8.90
125.00	13.00	0.00	0.00	1.46	8.93	8.90
126.00	13.00	0.00	0.00	1.46	8.93	8.90
127.00	13.00	0.00	0.00	1.46	8.92	8.90
128.00	13.00	0.00	0.00	1.46	8.92	8.90
129.00	13.00	0.00	0.00	1.46	8.92	8.90
130.00	13.00	0.00	0.00	1.46	8.92	8.90
131.00	13.00	0.00	0.00	1.46	8.92	8.90
132.00	13.00	0.00	0.00	1.46	8.92	8.90
133.00	13.00	0.00	0.00	1.46	8.92	8.90
134.00	13.00	0.00	0.00	1.46	8.92	8.90
135.00	13.00	0.00	0.00	1.46	8.92	8.90
136.00	13.00	0.00	0.00	1.46	8.92	8.90
137.00	13.00	0.00	0.00	1.46	8.92	8.90
138.00	13.00	0.00	0.00	1.46	8.92	8.90
139.00	13.00	0.00	0.00	1.46	8.92	8.90
140.00	13.00	0.00	0.00	1.46	8.92	8.90
141.00	13.00	0.00	0.00	1.46	8.92	8.90
142.00	13.00	0.00	0.00	1.46	8.92	8.90
143.00	13.00	0.00	0.00	1.46	8.92	8.90
144.00	13.00	0.00	0.00	1.46	8.92	8.90

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)
145.00	13.00	0.00	0.00	1.46	8.91	8.90
146.00	13.00	0.00	0.00	1.46	8.91	8.90
147.00	13.00	0.00	0.00	1.46	8.91	8.90
148.00	13.00	0.00	0.00	1.46	8.91	8.90
149.00	13.00	0.00	0.00	1.46	8.91	8.90
150.00	13.00	0.00	0.00	1.46	8.91	8.90
151.00	13.00	0.00	0.00	1.46	8.91	8.90
152.00	13.00	0.00	0.00	1.46	8.91	8.90
153.00	13.00	0.00	0.00	1.46	8.91	8.90
154.00	13.00	0.00	0.00	1.46	8.91	8.90
155.00	13.00	0.00	0.00	1.46	8.91	8.90
156.00	13.00	0.00	0.00	1.46	8.91	8.90
157.00	13.00	0.00	0.00	1.46	8.91	8.90
158.00	13.00	0.00	0.00	1.46	8.91	8.90
159.00	13.00	0.00	0.00	1.46	8.91	8.90
160.00	13.00	0.00	0.00	1.46	8.91	8.90
161.00	13.00	0.00	0.00	1.46	8.91	8.90
162.00	13.00	0.00	0.00	1.46	8.91	8.90
163.00	13.00	0.00	0.00	1.46	8.91	8.90
164.00	13.00	0.00	0.00	1.46	8.91	8.90
165.00	13.00	0.00	0.00	1.46	8.91	8.90
166.00	13.00	0.00	0.00	1.46	8.91	8.90
167.00	13.00	0.00	0.00	1.46	8.91	8.90
168.00	13.00	0.00	0.00	1.46	8.91	8.90
169.00	13.00	0.00	0.00	1.46	8.91	8.90
170.00	13.00	0.00	0.00	1.46	8.91	8.90
171.00	13.00	0.00	0.00	1.46	8.91	8.90
172.00	13.00	0.00	0.00	1.46	8.91	8.90
173.00	13.00	0.00	0.00	1.46	8.91	8.90
174.00	13.00	0.00	0.00	1.46	8.91	8.90
175.00	13.00	0.00	0.00	1.46	8.91	8.90
176.00	13.00	0.00	0.00	1.46	8.91	8.90
177.00	13.00	0.00	0.00	1.46	8.91	8.90
178.00	13.00	0.00	0.00	1.46	8.91	8.90
179.00	13.00	0.00	0.00	1.46	8.91	8.90
180.00	13.00	0.00	0.00	1.46	8.91	8.90
181.00	13.00	0.00	0.00	1.46	8.91	8.90
182.00	13.00	0.00	0.00	1.46	8.91	8.90
183.00	13.00	0.00	0.00	1.46	8.91	8.90
184.00	13.00	0.00	0.00	1.46	8.91	8.90
185.00	13.00	0.00	0.00	1.46	8.91	8.90
186.00	13.00	0.00	0.00	1.46	8.91	8.90
187.00	13.00	0.00	0.00	1.46	8.91	8.90
188.00	13.00	0.00	0.00	1.46	8.91	8.90
189.00	13.00	0.00	0.00	1.46	8.91	8.90
190.00	13.00	0.00	0.00	1.46	8.91	8.90
191.00	13.00	0.00	0.00	1.46	8.91	8.90
192.00	13.00	0.00	0.00	1.46	8.91	8.90
193.00	13.00	0.00	0.00	1.46	8.91	8.90
194.00	13.00	0.00	0.00	1.46	8.91	8.90
195.00	13.00	0.00	0.00	1.46	8.91	8.90
196.00	13.00	0.00	0.00	1.46	8.91	8.90
197.00	13.00	0.00	0.00	1.46	8.91	8.90
198.00	13.00	0.00	0.00	1.46	8.91	8.90
199.00	13.00	0.00	0.00	1.47	8.91	8.90
200.00	13.00	0.00	0.00	1.47	8.91	8.90
201.00	13.00	0.00	0.00	1.47	8.91	8.90
202.00	13.00	0.00	0.00	1.47	8.91	8.90
203.00	13.00	0.00	0.00	1.47	8.91	8.90
204.00	13.00	0.00	0.00	1.47	8.91	8.90
205.00	13.00	0.00	0.00	1.47	8.91	8.90
206.00	13.00	0.00	0.00	1.47	8.91	8.90
207.00	13.00	0.00	0.00	1.47	8.91	8.90
208.00	13.00	0.00	0.00	1.47	8.91	8.90
209.00	13.00	0.00	0.00	1.47	8.91	8.90
210.00	13.00	0.00	0.00	1.47	8.91	8.90
211.00	13.00	0.00	0.00	1.47	8.91	8.90
212.00	13.00	0.00	0.00	1.47	8.91	8.90
213.00	13.00	0.00	0.00	1.47	8.91	8.90

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)
214.00	13.00	0.00	0.00	1.47	8.91	8.90
215.00	13.00	0.00	0.00	1.47	8.91	8.90
216.00	13.00	0.00	0.00	1.47	8.91	8.90
217.00	13.00	0.00	0.00	1.47	8.91	8.90
218.00	13.00	0.00	0.00	1.47	8.91	8.90
219.00	13.00	0.00	0.00	1.47	8.91	8.90
220.00	13.00	0.00	0.00	1.47	8.91	8.90
221.00	13.00	0.00	0.00	1.47	8.91	8.90
222.00	13.00	0.00	0.00	1.47	8.91	8.90
223.00	13.00	0.00	0.00	1.47	8.91	8.90
224.00	13.00	0.00	0.00	1.47	8.91	8.90
225.00	13.00	0.00	0.00	1.47	8.91	8.90
226.00	13.00	0.00	0.00	1.47	8.91	8.90
227.00	13.00	0.00	0.00	1.47	8.91	8.90
228.00	13.00	0.00	0.00	1.47	8.90	8.90
229.00	13.00	0.00	0.00	1.47	8.90	8.90
230.00	13.00	0.00	0.00	1.47	8.90	8.90
231.00	13.00	0.00	0.00	1.47	8.90	8.90
232.00	13.00	0.00	0.00	1.47	8.90	8.90
233.00	13.00	0.00	0.00	1.47	8.90	8.90
234.00	13.00	0.00	0.00	1.47	8.90	8.90
235.00	13.00	0.00	0.00	1.47	8.90	8.90
236.00	13.00	0.00	0.00	1.47	8.90	8.90
237.00	13.00	0.00	0.00	1.47	8.90	8.90
238.00	13.00	0.00	0.00	1.47	8.90	8.90
239.00	13.00	0.00	0.00	1.47	8.90	8.90
240.00	13.00	0.00	0.00	1.47	8.90	8.90
241.00	13.00	0.00	0.00	1.47	8.90	8.90
242.00	13.00	0.00	0.00	1.47	8.90	8.90
243.00	13.00	0.00	0.00	1.47	8.90	8.90
244.00	13.00	0.00	0.00	1.47	8.90	8.90
245.00	13.00	0.00	0.00	1.47	8.90	8.90
246.00	13.00	0.00	0.00	1.47	8.90	8.90
247.00	13.00	0.00	0.00	1.47	8.90	8.90
248.00	13.00	0.00	0.00	1.47	8.90	8.90
249.00	13.00	0.00	0.00	1.47	8.90	8.90
250.00	13.00	0.00	0.00	1.47	8.90	8.90
251.00	13.00	0.00	0.00	1.47	8.90	8.90
252.00	13.00	0.00	0.00	1.47	8.90	8.90
253.00	13.00	0.00	0.00	1.47	8.90	8.90
254.00	13.00	0.00	0.00	1.47	8.90	8.90
255.00	13.00	0.00	0.00	1.47	8.90	8.90
256.00	13.00	0.00	0.00	1.47	8.90	8.90
257.00	13.00	0.00	0.00	1.47	8.90	8.90
258.00	13.00	0.00	0.00	1.47	8.90	8.90
259.00	13.00	0.00	0.00	1.47	8.90	8.90
260.00	13.00	0.00	0.00	1.47	8.90	8.90
261.00	13.00	0.00	0.00	1.47	8.90	8.90
262.00	13.00	0.00	0.00	1.47	8.90	8.90
263.00	13.00	0.00	0.00	1.47	8.90	8.90
264.00	13.00	0.00	0.00	1.47	8.90	8.90
265.00	13.00	0.00	0.00	1.47	8.90	8.90
266.00	13.00	0.00	0.00	1.47	8.90	8.90
267.00	13.00	0.00	0.00	1.47	8.90	8.90
268.00	13.00	0.00	0.00	1.47	8.90	8.90
269.00	13.00	0.00	0.00	1.47	8.90	8.90
270.00	13.00	0.00	0.00	1.47	8.90	8.90
271.00	13.00	0.00	0.00	1.47	8.90	8.90
272.00	13.00	0.00	0.00	1.47	8.90	8.90
273.00	13.00	0.00	0.00	1.47	8.90	8.90
274.00	13.00	0.00	0.00	1.47	8.90	8.90
275.00	13.00	0.00	0.00	1.47	8.90	8.90
276.00	13.00	0.00	0.00	1.47	8.90	8.90
277.00	13.00	0.00	0.00	1.47	8.90	8.90
278.00	13.00	0.00	0.00	1.47	8.90	8.90
279.00	13.00	0.00	0.00	1.47	8.90	8.90
280.00	13.00	0.00	0.00	1.47	8.90	8.90
281.00	13.00	0.00	0.00	1.47	8.90	8.90
282.00	13.00	0.00	0.00	1.47	8.90	8.90

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)
283.00	13.00	0.00	0.00	1.47	8.90	8.90
284.00	13.00	0.00	0.00	1.47	8.90	8.90
285.00	13.00	0.00	0.00	1.47	8.90	8.90
286.00	13.00	0.00	0.00	1.47	8.90	8.90
287.00	13.00	0.00	0.00	1.47	8.90	8.90
288.00	13.00	0.00	0.00	1.47	8.90	8.90
289.00	13.00	0.00	0.00	1.47	8.90	8.90
290.00	13.00	0.00	0.00	1.47	8.90	8.90
291.00	13.00	0.00	0.00	1.47	8.90	8.90
292.00	13.00	0.00	0.00	1.47	8.90	8.90
293.00	13.00	0.00	0.00	1.47	8.90	8.90
294.00	13.00	0.00	0.00	1.47	8.90	8.90
295.00	13.00	0.00	0.00	1.47	8.90	8.90
296.00	13.00	0.00	0.00	1.47	8.90	8.90
297.00	13.00	0.00	0.00	1.47	8.90	8.90
298.00	13.00	0.00	0.00	1.47	8.90	8.90
299.00	13.00	0.00	0.00	1.47	8.90	8.90
300.00	13.00	0.00	0.00	1.47	8.90	8.90
301.00	13.00	0.00	0.00	1.47	8.90	8.90
302.00	13.00	0.00	0.00	1.47	8.90	8.90
303.00	13.00	0.00	0.00	1.47	8.90	8.90
304.00	13.00	0.00	0.00	1.47	8.90	8.90
305.00	13.00	0.00	0.00	1.47	8.90	8.90
306.00	13.00	0.00	0.00	1.47	8.90	8.90
307.00	13.00	0.00	0.00	1.47	8.90	8.90
308.00	13.00	0.00	0.00	1.47	8.90	8.90
309.00	13.00	0.00	0.00	1.47	8.90	8.90
310.00	13.00	0.00	0.00	1.47	8.90	8.90
311.00	13.00	0.00	0.00	1.47	8.90	8.90
312.00	13.00	0.00	0.00	1.47	8.90	8.90
313.00	13.00	0.00	0.00	1.47	8.90	8.90
314.00	13.00	0.00	0.00	1.47	8.90	8.90
315.00	13.00	0.00	0.00	1.47	8.90	8.90
316.00	13.00	0.00	0.00	1.47	8.90	8.90
317.00	13.00	0.00	0.00	1.47	8.90	8.90
318.00	13.00	0.00	0.00	1.47	8.90	8.90
319.00	13.00	0.00	0.00	1.47	8.90	8.90
320.00	13.00	0.00	0.00	1.47	8.90	8.90
321.00	13.00	0.00	0.00	1.47	8.90	8.90
322.00	13.00	0.00	0.00	1.47	8.90	8.90
323.00	13.00	0.00	0.00	1.47	8.90	8.90
324.00	13.00	0.00	0.00	1.47	8.90	8.90
325.00	13.00	0.00	0.00	1.47	8.90	8.90
326.00	13.00	0.00	0.00	1.47	8.90	8.90
327.00	13.00	0.00	0.00	1.47	8.90	8.90
328.00	13.00	0.00	0.00	1.47	8.90	8.90
329.00	13.00	0.00	0.00	1.47	8.90	8.90
330.00	13.00	0.00	0.00	1.47	8.90	8.90
331.00	13.00	0.00	0.00	1.47	8.90	8.90
332.00	13.00	0.00	0.00	1.47	8.90	8.90
333.00	13.00	0.00	0.00	1.47	8.90	8.90
334.00	13.00	0.00	0.00	1.47	8.90	8.90
335.00	13.00	0.00	0.00	1.47	8.90	8.90
336.00	13.00	0.00	0.00	1.47	8.90	8.90
337.00	13.00	0.00	0.00	1.47	8.90	8.90
338.00	13.00	0.00	0.00	1.47	8.90	8.90
339.00	13.00	0.00	0.00	1.47	8.90	8.90
340.00	13.00	0.00	0.00	1.47	8.90	8.90
341.00	13.00	0.00	0.00	1.47	8.90	8.90
342.00	13.00	0.00	0.00	1.47	8.90	8.90
343.00	13.00	0.00	0.00	1.47	8.90	8.90
344.00	13.00	0.00	0.00	1.47	8.90	8.90
345.00	13.00	0.00	0.00	1.47	8.90	8.90
346.00	13.00	0.00	0.00	1.47	8.90	8.90
347.00	13.00	0.00	0.00	1.47	8.90	8.90
348.00	13.00	0.00	0.00	1.47	8.90	8.90
349.00	13.00	0.00	0.00	1.47	8.90	8.90
350.00	13.00	0.00	0.00	1.47	8.90	8.90
351.00	13.00	0.00	0.00	1.47	8.90	8.90

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)
352.00	13.00	0.00	0.00	1.47	8.90	8.90
353.00	13.00	0.00	0.00	1.47	8.90	8.90
354.00	13.00	0.00	0.00	1.47	8.90	8.90
355.00	13.00	0.00	0.00	1.47	8.90	8.90
356.00	13.00	0.00	0.00	1.47	8.90	8.90
357.00	13.00	0.00	0.00	1.47	8.90	8.90
358.00	13.00	0.00	0.00	1.47	8.90	8.90
359.00	13.00	0.00	0.00	1.47	8.90	8.90
360.00	13.00	0.00	0.00	1.47	8.90	8.90

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
1	0.54	63.98	0.00	0.00

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Basin 1	14.29	63.98	6.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Basin 1	1.69	0.00	1.47	0.00	0.22	0.00

Project Name: Madison Terrace

Reviewer: EV

Project Number: 23-064

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr

Time Step: 0.016 hr, Iterations: 10

Basin 1: Basin 1

Method: Santa Barbara Unit Hydrograph

Rainfall Distribution: SFWMD - 3day

Design Frequency: 100 year

3 Day Rainfall: 18 inches

Area: 1.88 acres

Ground Storage: 2.12 inches

Time of Concentration: 0.5 hours

Initial Stage: 6.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
6.50	0.00
7.00	0.04
7.50	0.09
8.00	0.13
8.50	0.18
9.00	0.23
9.50	0.30
10.00	0.39
10.50	0.46
11.00	0.55
11.50	0.62
12.00	0.66
12.50	0.69
13.00	0.73
13.50	0.77
14.00	0.92
14.50	1.27
15.00	1.83
15.50	2.56

Offsite Receiving Body: Offsitel

Time (hr)	Stage (ft NGVD)
0.00	8.90
360.00	8.90

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max (cfs)	Time (hr)	Min (cfs)	Time (hr)
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BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Basin 1	15.43	76.03	6.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Basin 1	2.46	0.00	0.00	0.00	2.46	0.00