

**STORM WATER DETENTION  
CALCULATIONS AND REPORT  
FOR  
DELMAR GARDENS  
O'FALLON, MISSOURI**

Prepared For:

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CEC Project No. 00228.10

May 20, 2002  
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Revised January 28, 2007  
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## **DESCRIPTION AND PROCEDURE**

Delmar Gardens is planning to construct a New Self-Care facility and construct additions to the Existing Skilled-Care Facility west of the Highway K and south of Highway N and the Page Avenue extension. The existing site conditions consist of the Existing Skilled-Care facility and associated parking lots and drives. During the first phase of the project (the Skilled Care Facility), the wet detention basin and 2 dry detention basins were designed and constructed for the future conditions. The building additions to the Skilled Care Facility and the New Self Care Facility have been accounted for in the detention basin design during phase 1.

The site slopes from the north to the south. The following calculations have been revised to reflect the revised wet basin configuration and the revised drainage areas.

Calculations for the existing conditions as described above are located in the following report. See the drainage area maps located in the plans for details. We used Version 7.5 of Pond Pack for Windows created by Haested Methods to perform the detention calculations. The Rational Method was used to determine the hydrographs for the site. The existing hydrograph consists of using a runoff factor based on the intensity and duration of the 2-, 15-, 25-, and 100-year storm events to calculate the peak runoff. Trapezoidal hydrographs were created by using the peak flow for a duration equal to the time of concentration. We modeled the site as one watershed. Our goal for the proposed conditions was to at least meet the existing undeveloped runoff conditions from the entire site for the 25-year design storm.

The existing conditions consist of 24.45 acres of undeveloped onsite area. The existing conditions hydrograph determined the maximum allowable release rate for the site. See Table 2 Existing Conditions for the existing conditions release rate for the site.

The proposed conditions consist of three onsite detention basins. Two will be dry basins that drain a majority of the site. The third is a water feature that will detain a minimal amount of runoff from surrounding sheet flow. There are some areas that were not physically able to be drained to a detention basin and therefore will leave the site undetained and labeled as bypass areas. These areas and runoff are deducted from the allowable release rate for the site. Included in the bypass are areas along Twin Chimneys Boulevard and slope areas from the south end of the site that drain to the bounding Twin Chimneys Lindenwood Village B subdivision. As a worst-case scenario, we have modeled the detention as if there were two years of sedimentation in the bottom of the South and Southwest basins per the Soil and Water Conservation District. This was modeled by inserting a node in the volume table for the basins at the 2-year sediment elevation in the respective basin with a surface area of one cubic foot. PondPack requires increasing areas for successive elevations or the program will assume that you want an elevation interpreted. See Table 1 List of Drainage Areas and the submitted Proposed Drainage Area Map for breakdown of all drainage areas.

Inflow and bypass areas for each of the three basins are located in Tables 3, 4, and 5, respectively. The results of detention calculations for the three basins, as well as the overall watershed conditions and outflow structure information, are located in Table 6 Detention Summary. See the plans for details of the outflow structures.

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**TABLE 5. PROPOSED CONDITIONS - SOUTHWEST BASIN**

Area No.	Area (Ac.)	15-Minute Duration								Off- Site
		2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	
<b>INFLOW</b>										
89	0.80	2.11	1.69	3.44	2.75	4.24	3.39	5.43	4.34	
90	0.54	1.95	1.05	3.17	1.71	3.91	2.11	5.01	2.70	
91	0.70	1.77	1.24	2.88	2.01	3.55	2.48	4.54	3.18	
92	0.46	2.12	0.98	3.45	1.59	4.26	1.96	5.45	2.51	
94	0.13	1.25	0.16	2.04	0.27	2.52	0.33	3.22	0.42	
95	0.96	1.19	1.15	1.94	1.86	2.39	2.30	3.06	2.94	
97	0.46	2.50	1.15	4.07	1.87	5.02	2.31	6.43	2.96	
98	3.09	2.50	7.73	4.07	12.58	5.02	15.51	6.43	19.86	
99	0.06	2.50	0.15	4.07	0.24	5.02	0.30	6.43	0.39	
101	0.04	2.50	0.10	4.07	0.16	5.02	0.20	6.43	0.26	
102	0.11	2.50	0.29	4.07	0.46	5.02	0.57	6.43	0.73	
104	0.06	2.50	0.15	4.07	0.24	5.02	0.30	6.43	0.39	
110	0.03	2.50	0.08	4.07	0.12	5.02	0.15	6.43	0.19	
<b>TOTALS</b>	<b>4.94</b>		<b>10.95</b>		<b>17.81</b>		<b>21.98</b>		<b>28.14</b>	
<b>BYPASS</b>										
100	0.74	1.15	0.85	1.87	1.38	2.31	1.71	2.95	2.19	
<b>TOTALS</b>	<b>5.68</b>		<b>11.80</b>		<b>19.20</b>		<b>23.68</b>		<b>30.32</b>	

**NOTE: AREAS ABOVE ARE BASED ON ACTUAL TIME OF CONCENTRATION FOR THE DETENTION CALCS ONLY. TIME OF CONCENTRATION IS 15-MIN.**

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**TABLE 2. EXISTING CONDITIONS**

**OVERALL SITE**

% Imp	Area (Ac.)	20-Minute Duration							
		2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)
5	24.45	1.15	28.12	1.87	45.72	2.31	56.48	2.95	72.13

**SOUTHWEST BASIN**

% Imp	Area (Ac.)	20-Minute Duration							
		2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)
5	0.60	1.15	0.69	1.87	1.12	2.31	1.39	2.95	1.77
5	0.49	1.15	0.56	1.87	0.92	2.31	1.13	2.95	1.45
5	2.02	1.15	2.32	1.87	3.78	2.31	4.67	2.95	5.96
	3.11		3.58		5.82		7.18		9.17

NOTE: SOUTHWEST BASIN AREAS TAKEN FROM CALCULATIONS PERFORMED BY PICKETT, RAY & SILVER, INC. DATED 8/19/1988 & REVISED 9/29/1988 AS SUPPLIED BY THE CITY OF O'FALLON.

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**TABLE 3. PROPOSED CONDITIONS - WET BASIN**

Area No.	Area (Ac.)	15-Minute Duration								Off- Site
		2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	
<b>INFLOW</b>										
5	0.95	1.15	1.09	1.87	1.78	2.31	2.19	2.95	2.81	
93	0.19	1.85	0.35	3.02	0.57	3.72	0.71	4.76	0.91	
96	0.36	2.00	0.72	3.25	1.17	4.00	1.44	5.13	1.85	
108	0.29	2.37	0.68	3.85	1.10	4.75	1.36	6.08	1.75	
109	0.03	2.37	0.07	3.85	0.12	4.75	0.14	6.08	0.18	
<b>TOTALS</b>	<b>1.82</b>		<b>2.91</b>		<b>4.74</b>		<b>5.85</b>		<b>7.48</b>	
<b>BYPASS WET BASIN</b>										
4	0.08	2.37	0.19	3.85	0.31	4.75	0.38	6.08	0.49	

**NOTE: AREAS ABOVE ARE BASED ON ACTUAL TIME OF CONCENTRATION FOR THE DETENTION CALCS ONLY. TIME OF CONCENTRATION IS 15-MIN.**

**DELMAR GARDENS**  
O'Fallon, MO

**TABLE 4. PROPOSED CONDITIONS - SOUTH BASIN**

Area No.	% Imp	Area (Ac.)	20-Minute Duration								Off- Site
			2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	
<b>INFLOW</b>											
1	0	0.51	2.39	1.22	3.85	1.96	4.75	2.42	6.08	3.10	X
2	0.43	0.43	1.15	0.49	1.87	0.80	2.31	0.99	2.95	1.27	X
6	0.27	0.73	2.50	1.83	3.70	2.70	4.56	3.33	5.84	4.27	
7	0.03	0.19	2.18	0.41	3.22	0.61	3.97	0.75	5.09	0.97	
8	0.16	0.48	1.98	0.95	3.19	1.53	3.94	1.89	5.04	2.42	
9	0	0.54	2.60	1.41	3.85	2.08	4.75	2.56	6.08	3.28	
10	0.394	0.99	2.07	2.05	3.06	3.03	3.77	3.74	4.83	4.79	
11	0.18	0.35	1.75	0.61	2.83	0.99	3.49	1.22	4.47	1.57	X
12	0.096	0.13	1.47	0.19	2.39	0.31	2.95	0.38	3.77	0.49	
26	0.055	0.13	2.03	0.26	3.00	0.39	3.70	0.48	4.74	0.62	
27	0.017	0.15	2.44	0.37	3.60	0.54	4.44	0.67	5.69	0.85	
28	0.13	0.37	2.13	0.79	3.15	1.17	3.89	1.44	4.98	1.84	
30	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
31	0.06	0.13	1.99	0.26	2.94	0.38	3.63	0.47	4.64	0.60	
32	0.09	0.21	2.08	0.44	3.07	0.64	3.79	0.80	4.85	1.02	
33	0.01	0.08	2.44	0.19	3.60	0.29	4.44	0.36	5.69	0.45	
34	0	0.08	2.39	0.19	3.85	0.31	4.75	0.38	6.08	0.49	
35	0.06	0.15	1.89	0.28	3.06	0.46	3.77	0.57	4.83	0.72	
36	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
37	0	0.05	2.39	0.12	3.85	0.19	4.75	0.24	6.08	0.30	
38	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
39	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
40	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
41	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
42	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
43	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
44	0	0.06	2.39	0.14	3.85	0.23	4.75	0.28	6.08	0.36	
45	0.05	0.17	1.85	0.31	2.73	0.46	3.37	0.57	4.31	0.73	
46	0.01	0.03	1.98	0.06	3.19	0.10	3.94	0.12	5.04	0.15	
47	0.008	0.09	2.48	0.22	3.67	0.33	4.53	0.41	5.80	0.52	
48	0.053	0.12	2.03	0.24	3.00	0.36	3.70	0.44	4.74	0.57	
49	0.037	0.12	2.20	0.26	3.25	0.39	4.01	0.48	5.13	0.62	
50	0.06	0.19	1.99	0.38	2.94	0.56	3.63	0.69	4.64	0.88	
51	0	0.06	2.39	0.14	3.85	0.23	4.75	0.28	6.08	0.36	
52	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
53	0	0.03	2.39	0.07	3.85	0.12	4.75	0.14	6.08	0.18	
54	0	0.03	2.39	0.07	3.85	0.12	4.75	0.14	6.08	0.18	
55	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
56	0	0.03	2.39	0.07	3.85	0.12	4.75	0.14	6.08	0.18	
57	0	0.05	2.39	0.12	3.85	0.19	4.75	0.24	6.08	0.30	
58	0.01	0.01	1.15	0.01	1.87	0.02	2.31	0.02	2.95	0.03	
59	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
60	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
61	0.01	0.01	1.26	0.01	1.87	0.02	2.31	0.02	2.95	0.03	
62	0.01	0.01	1.26	0.01	1.87	0.02	2.31	0.02	2.95	0.03	
63	0.016	0.02	1.69	0.03	2.50	0.05	3.08	0.06	3.95	0.08	
64	0.039	0.05	1.42	0.07	2.31	0.12	2.84	0.14	3.64	0.18	
65	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
66	0	0.01	2.39	0.02	3.85	0.04	4.75	0.05	6.08	0.06	
67	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
68	0	0.04	2.39	0.10	3.85	0.15	4.75	0.19	6.08	0.24	

**DELMAR GARDENS**  
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**TABLE 4. PROPOSED CONDITIONS - SOUTH BASIN**

Area No.	% Imp	Area (Ac.)	20-Minute Duration								Off- Site
			2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	
69	0	0.03	2.39	0.07	3.85	0.12	4.75	0.14	6.08	0.18	
70	0.008	0.01	1.40	0.01	2.27	0.02	2.80	0.03	3.58	0.04	
71	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
72	0.014	0.02	1.52	0.03	2.46	0.05	3.04	0.06	3.89	0.08	
73	0	0.02	2.39	0.05	3.85	0.08	4.75	0.09	6.08	0.12	
74	0.018	0.03	1.65	0.05	2.66	0.08	3.28	0.10	4.20	0.13	
75	0.046	0.06	1.44	0.09	2.33	0.14	2.88	0.17	3.68	0.22	
76	0.011	0.07	2.41	0.17	3.57	0.25	4.40	0.31	5.64	0.39	
77	0.01	0.07	2.41	0.17	3.56	0.25	4.39	0.31	5.62	0.39	
78	0.04	0.16	2.27	0.36	3.35	0.54	4.13	0.66	5.29	0.85	
79	0.01	0.07	2.41	0.17	3.56	0.25	4.39	0.31	5.62	0.39	
80	0	0.05	2.60	0.13	3.85	0.19	4.75	0.24	6.08	0.30	
81	0.05	0.16	2.18	0.35	3.23	0.52	3.98	0.64	5.10	0.82	
82	0.03	0.07	2.03	0.14	3.00	0.21	3.70	0.26	4.74	0.33	
83	0.04	0.30	2.43	0.73	3.59	1.08	4.43	1.33	5.67	1.70	
84	0	0.01	2.60	0.03	3.85	0.04	4.75	0.05	6.08	0.06	
85	0.15	0.58	2.26	1.31	3.34	1.94	4.12	2.39	5.28	3.06	
86	1.14	1.19	1.20	1.43	1.95	2.32	2.41	2.87	3.09	3.67	
87	0.07	0.25	2.23	0.56	3.30	0.83	4.07	1.02	5.21	1.30	
88	0.1	0.43	2.37	1.02	3.50	1.51	4.32	1.86	5.53	2.38	
103	0	0.32	2.39	0.76	3.85	1.23	4.75	1.52	6.08	1.95	
105	0	0.39	2.39	0.93	3.85	1.50	4.75	1.85	6.08	2.37	
106	0.16	0.18	1.29	0.23	2.09	0.38	2.58	0.46	3.30	0.59	
107	0.31	0.57	1.72	0.98	2.77	1.58	3.42	1.95	4.38	2.50	
SUB-TOTALS		11.59		23.53		36.01		44.43		56.88	
BYPASS											
3	0.8	0.80	1.15	0.92	1.87	1.50	2.31	1.85	2.95	2.36	
13	0.117	0.24	2.23	0.54	3.30	0.79	4.07	0.98	5.21	1.25	
14	0.123	0.24	2.23	0.54	3.30	0.79	4.07	0.98	5.21	1.25	
15	0.062	0.08	2.23	0.18	3.30	0.26	4.07	0.33	5.21	0.42	
16	0.09	0.09	1.15	0.10	1.87	0.17	2.31	0.21	2.95	0.27	
17	0.04	0.04	1.15	0.05	1.87	0.07	2.31	0.09	2.95	0.12	
18	0.119	0.15	1.54	0.23	2.27	0.34	2.80	0.42	3.59	0.54	
19	0	0.14	2.60	0.36	3.85	0.54	4.75	0.66	6.08	0.85	
20	0.14	0.22	1.75	0.39	2.59	0.57	3.20	0.70	4.09	0.90	
21	0.01	0.10	2.47	0.25	3.65	0.37	4.50	0.45	5.77	0.58	
22	0.094	0.13	1.56	0.20	2.31	0.30	2.85	0.37	3.65	0.47	
23	0.065	0.23	2.04	0.47	3.29	0.76	4.06	0.93	5.20	1.20	
24	0.07	0.07	1.15	0.08	1.87	0.13	2.31	0.16	2.95	0.21	
25	0.013	0.09	2.41	0.22	3.56	0.32	4.39	0.40	5.62	0.51	
29	0.35	0.35	1.15	0.40	1.87	0.65	2.31	0.81	2.95	1.03	
SUB-TOTALS		2.97		4.92		7.56		9.33		11.95	
TOTALS		14.56		28.45		43.58		53.76		68.83	

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**TABLE 4. PROPOSED CONDITIONS - SOUTH BASIN**

Area No.	% Imp	Area (Ac.)	20-Minute Duration								Off- Site
			2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	

BASED ON PROPOSED SITE PLAN - ACTUAL PERCENT OF SITE IMPERVIOUS = 53%

SATURATION FACTOR WAS NOT USED ON ROOF & PAVEMENT SURFACES  
BECAUSE THEY ARE IMPERVIOUS.



# DELMAR GARDENS

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**TABLE 5. PROPOSED CONDITIONS - SOUTHWEST BASIN**

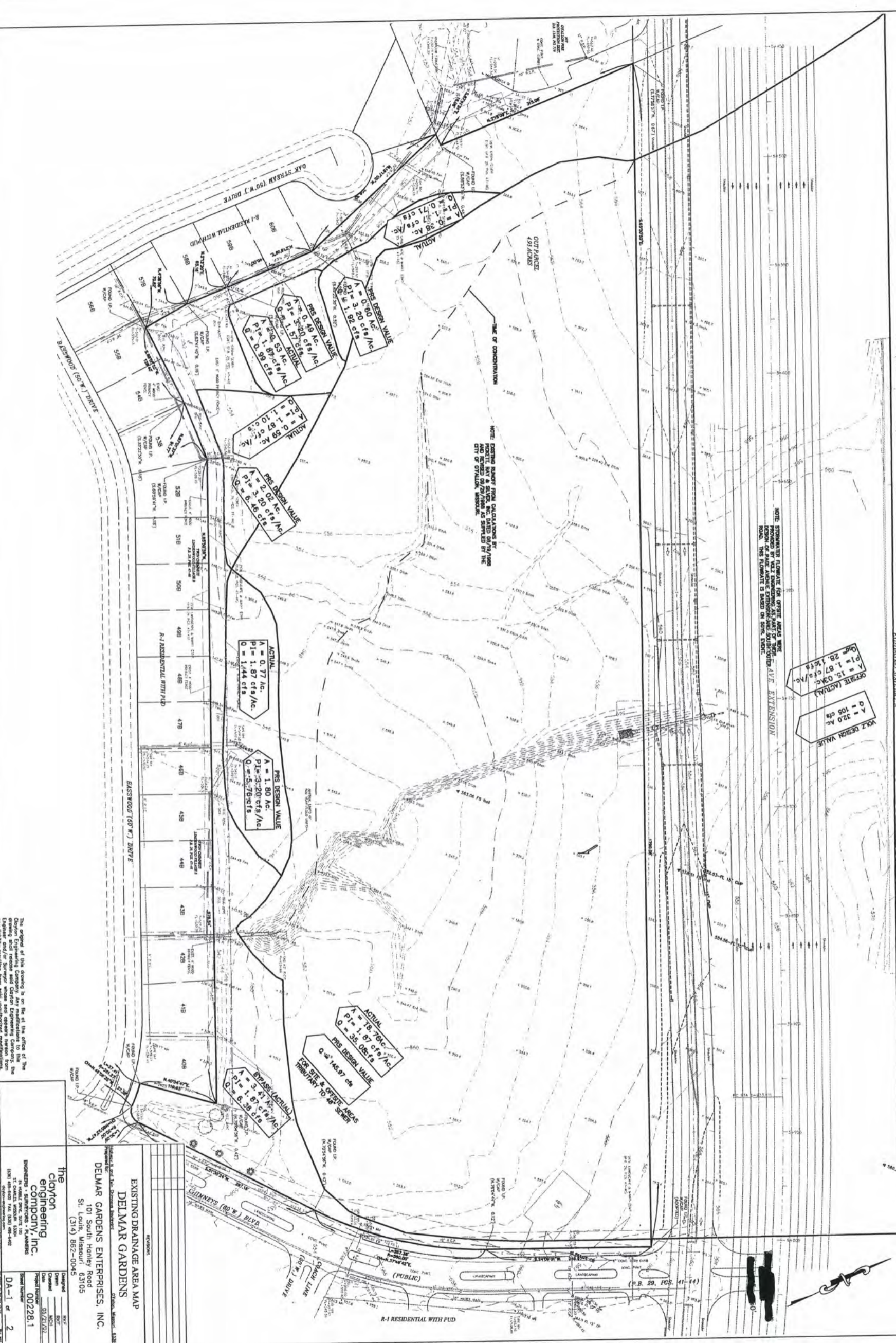
Area No.	Area (Ac.)	15-Minute Duration								Off- Site
		2-Year PI Factor (cfs/Ac.)	2-Year Q (cfs)	15-Year PI Factor (cfs/Ac.)	15-Year Q (cfs)	25-Year PI Factor (cfs/Ac.)	25-Year Q (cfs)	100-Year PI Factor (cfs/Ac.)	100-Year Q (cfs)	
<b>INFLOW</b>										
89	0.80	2.11	1.69	3.44	2.75	4.24	3.39	5.43	4.34	
90	0.54	1.95	1.05	3.17	1.71	3.91	2.11	5.01	2.70	
91	0.70	1.77	1.24	2.88	2.01	3.55	2.48	4.54	3.18	
92	0.46	2.12	0.98	3.45	1.59	4.26	1.96	5.45	2.51	
94	0.13	1.25	0.16	2.04	0.27	2.52	0.33	3.22	0.42	
95	0.96	1.19	1.15	1.94	1.86	2.39	2.30	3.06	2.94	
97	0.46	2.50	1.15	4.07	1.87	5.02	2.31	6.43	2.96	
98	3.09	2.50	7.73	4.07	12.58	5.02	15.51	6.43	19.86	
99	0.06	2.50	0.15	4.07	0.24	5.02	0.30	6.43	0.39	
101	0.04	2.50	0.10	4.07	0.16	5.02	0.20	6.43	0.26	
102	0.11	2.50	0.29	4.07	0.46	5.02	0.57	6.43	0.73	
104	0.06	2.50	0.15	4.07	0.24	5.02	0.30	6.43	0.39	
110	0.03	2.50	0.08	4.07	0.12	5.02	0.15	6.43	0.19	
<b>TOTALS</b>	<b>4.94</b>		<b>10.95</b>		<b>17.81</b>		<b>21.98</b>		<b>28.14</b>	
<b>BYPASS</b>										
100	0.74	1.15	0.85	1.87	1.38	2.31	1.71	2.95	2.19	
<b>TOTALS</b>	<b>5.68</b>		<b>11.80</b>		<b>19.20</b>		<b>23.68</b>		<b>30.32</b>	

**NOTE:** AREAS ABOVE ARE BASED ON ACTUAL TIME OF CONCENTRATION FOR THE DETENTION CALCS ONLY. TIME OF CONCENTRATION IS 15-MIN.

SCALE: 1" = 150'

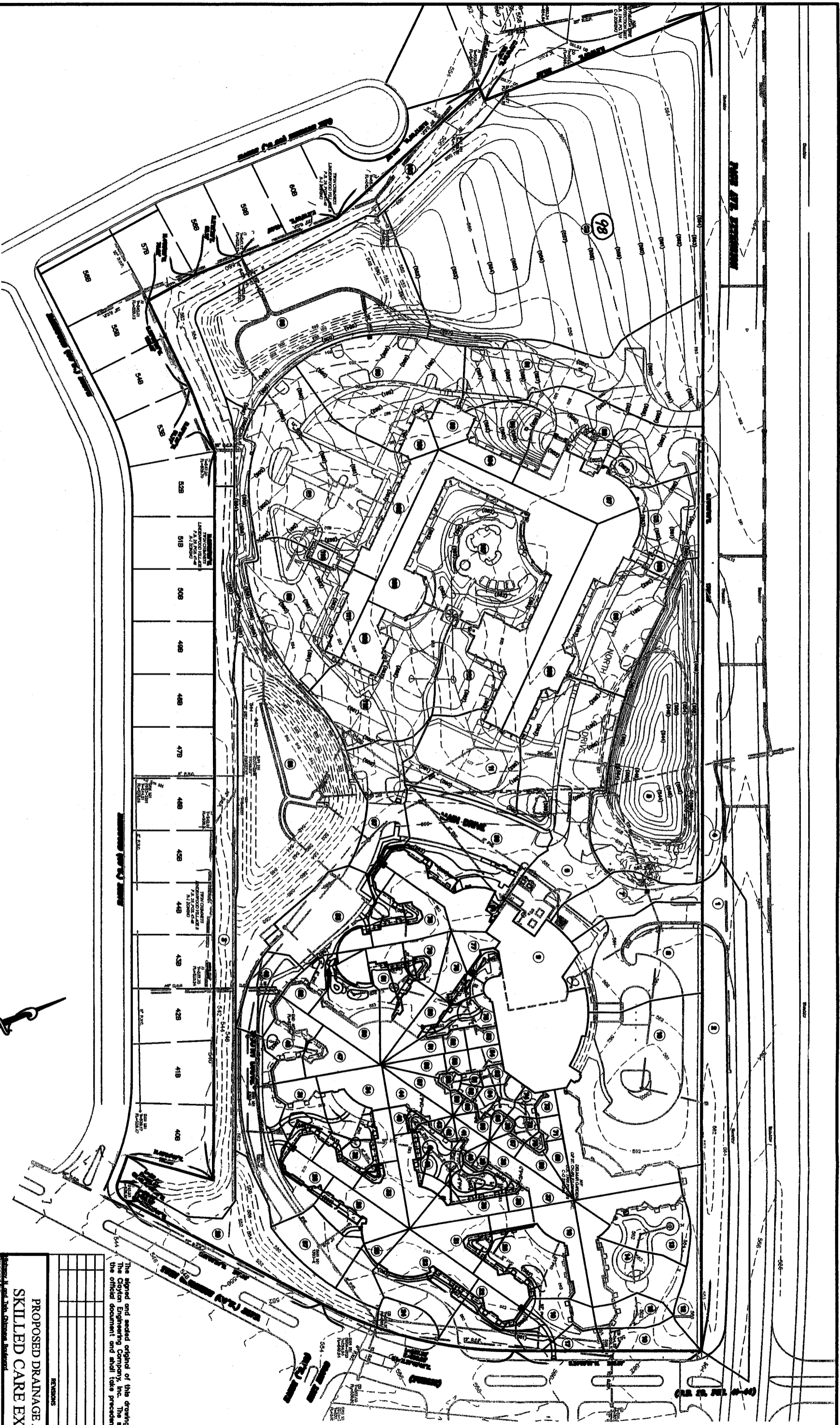
NOTES: PROPOSED FLOWRATE FOR OPTITE AREAS WERE PROVIDED BY FOX ENGINEERING, AS PART OF THEIR REPORT FOR THE 100' WIDE AVENUE EXTENSION PROJECT. THE FLOWRATE IS BASED ON SOME, BUT NOT ALL, OF THE INFORMATION PROVIDED BY THE CLIENT.

NOTE: DESIGN REPORT FROM CALCULATIONS BY FOX ENGINEERING, DATED 08/19/1998, AND REPORT ON 27/10/98, AS SUPPLIED BY THE CLIENT.



The subject of this drawing is on file in the office of the City of St. Louis. Any modifications to this drawing and/or notes and/or drawings shall be the responsibility of the engineer. Any modifications shall be made in accordance with the City of St. Louis Engineering Department's standards and specifications.

<p><b>DELMAR GARDENS ENTERPRISES, INC.</b>          101 South Honey Road          St. Louis, Missouri 63105          (314) 862-0045</p>	
<p><b>the clynton engineering company, inc.</b>          ENGINEERS - ARCHITECTS - PLANNERS          1001 South Grand Blvd.          St. Louis, Missouri 63105          (314) 442-7400 FAX (314) 442-4400</p>	<p>Project No. 00228.1          Sheet No. DA-1 of 2</p>



0 50 100  
 SCALE IN FEET  
 Scale 1" = 60'



REVISIONS


The signed and sealed original of this drawing is on file at the offices of The Clayton Engineering Company, Inc. The signed and sealed original is the official document and shall take precedence over any digital version.

**PROPOSED DRAINAGE AREA MAP  
 SKILLED CARE EXPANSION**

**DELMAR GARDENS ENTERPRISES, INC.**  
 14805 N. Outer 40  
 Chesterfield, MO 63017  
 636-733-7000

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Designed: RCF  
 Drawn: RCF  
 Checked: M/V  
 Date: 12/17/07  
 Project Number: 00228.11  
 Sheet Number: C-10 of 10



**DETENTION BASIN**

**2 -, 15 -, 25 -, 100 - Year Storm Calculations**

Job File: G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Rain Dir: F:\PPK7\STORM FILES\

=====  
JOB TITLE  
=====

DELMAR GARDENS  
O'Fallon, Missouri  
  
Detention Calculations

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MASTER NETWORK SUMMARY  
 (\*Node=Outfall; +Node=Diversion;)  
 (Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Type	Return Event	HYG Vol cu.ft	Trun	Qpeak min	Qpeak cfs	Max WSEL ft	Max Pond cu.ft
*SITE OUTFALL	JCT	002	67417		30.00	29.52		
*SITE OUTFALL	JCT	015	104361		30.00	44.16		
*SITE OUTFALL	JCT	025	128781		30.00	53.99		
*SITE OUTFALL	JCT	100	164867		30.00	74.27		
SOUTH BASIN	IN	POND	002		30.00	25.41		
SOUTH BASIN	IN	POND	015		30.00	39.07		
SOUTH BASIN	IN	POND	025		30.00	48.46		
SOUTH BASIN	IN	POND	100		30.00	62.47		
SOUTH BASIN	OUT	POND	002		30.00	22.33	542.87	12550
SOUTH BASIN	OUT	POND	015		30.00	33.68	543.63	23372
SOUTH BASIN	OUT	POND	025		30.00	41.38	544.09	30572
SOUTH BASIN	OUT	POND	100		30.00	58.48	544.58	38726
SOUTH BASIN	INFL	HYG	002		1.00	23.53		
SOUTH BASIN	INFL	HYG	015		1.00	36.01		
SOUTH BASIN	INFL	HYG	025		1.00	44.43		
SOUTH BASIN	INFL	HYG	100		1.00	56.88		
SOUTH BYPASS		HYG	002		1.00	4.92		
SOUTH BYPASS		HYG	015		1.00	7.56		
SOUTH BYPASS		HYG	025		1.00	9.33		
SOUTH BYPASS		HYG	100		1.00	11.95		
SW BASIN	IN	POND	002		1.00	10.95		
SW BASIN	IN	POND	015		1.00	17.81		
SW BASIN	IN	POND	025		1.00	21.98		
SW BASIN	IN	POND	100		1.00	28.14		
SW BASIN	OUT	POND	002		16.00	2.52	548.14	7716
SW BASIN	OUT	POND	015		16.00	3.21	548.47	13739
SW BASIN	OUT	POND	025		16.00	3.63	548.66	17302
SW BASIN	OUT	POND	100		16.00	4.68	548.93	22552
SW BASIN	INFLOW	HYG	002		1.00	10.95		
SW BASIN	INFLOW	HYG	015		1.00	17.81		
SW BASIN	INFLOW	HYG	025		1.00	21.98		
SW BASIN	INFLOW	HYG	100		1.00	28.14		

MASTER NETWORK SUMMARY  
 Hydrograph File Import Option Used for 6 Node(s)

(\*Node=Outfall; +Node=Diversion;)  
 (Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Storage Node ID	Return Type	Event	HYG Vol cu.ft	Trun	Qpeak min	Qpeak cfs	Max WSEL ft	Max Pond cu.ft
SW BYPASS	HYG	002	1035		1.00	1.15		
SW BYPASS	HYG	015	1242		1.00	1.38		
SW BYPASS	HYG	025	1539		1.00	1.71		
SW BYPASS	HYG	100	1971		1.00	2.19		
WET BASIN	IN	POND	002	5151	1.00	2.91		
WET BASIN	IN	POND	015	8390	1.00	4.74		
WET BASIN	IN	POND	025	10355	1.00	5.85		
WET BASIN	IN	POND	100	13240	1.00	7.48		
WET BASIN	OUT	POND	002	5146	30.00	1.88	555.64	135925
WET BASIN	OUT	POND	015	8385	30.00	3.06	555.72	137953
WET BASIN	OUT	POND	025	10350	30.00	4.03	555.78	139136
WET BASIN	OUT	POND	100	13235	30.00	5.59	555.84	140617
WET BASIN	BYPASS	HYG	002	171	1.00	.19		
WET BASIN	BYPASS	HYG	015	279	1.00	.31		
WET BASIN	BYPASS	HYG	025	342	1.00	.38		
WET BASIN	BYPASS	HYG	100	441	1.00	.49		
WET BASIN	INFLOW	HYG	002	5151	1.00	2.91		
WET BASIN	INFLOW	HYG	015	8390	1.00	4.74		
WET BASIN	INFLOW	HYG	025	10355	1.00	5.85		
WET BASIN	INFLOW	HYG	100	13240	1.00	7.48		

Type.... Executive Summary (Nodes)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Node ID	Type	HYG Vol cu.ft	Qpeak Trun. min	Qpeak cfs	Max WSEL ft
Outfall SITE OUTFALL	JCT	67417	30.00	29.52	
SOUTH BASIN IN	POND	47500	30.00	25.41	
SOUTH BASIN OUT	POND	47500	30.00	22.33	542.87
SOUTH BASIN INFL	HYG	41648	1.00	23.53	
SOUTH BYPASS	HYG	8708	1.00	4.92	
SW BASIN IN	POND	9855	1.00	10.95	
SW BASIN OUT	POND	9855	16.00	2.52	548.14
SW BASIN INFLOW	HYG	9855	1.00	10.95	
SW BYPASS	HYG	1035	1.00	1.15	
WET BASIN IN	POND	5151	1.00	2.91	
WET BASIN OUT	POND	5146	30.00	1.88	555.64
WET BASIN BYPASS	HYG	171	1.00	.19	
WET BASIN INFLOW	HYG	5151	1.00	2.91	

Type.... Executive Summary (Links)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol cu.ft	Peak Time Trun. min	Peak Q cfs	End Points
A 20	ADD	UN	171	1.00	.19	WET BASIN BYPASS
		DL	171	1.00	.19	
		DN	67417	30.00	29.52	SITE OUTFALL
BYPASS AREAS	ADD	UN	8708	1.00	4.92	SOUTH BYPASS
		DL	8708	1.00	4.92	
		DN	67417	30.00	29.52	SITE OUTFALL
SOUTH BASIN INFL	ADD	UN	41648	1.00	23.53	SOUTH BASIN INFL
		DL	41648	1.00	23.53	
		DN	47500	30.00	25.41	SOUTH BASIN IN
SOUTH BASIN OUT SOUTH BASIN OUT	PONDrt	UN	47500	30.00	25.41	SOUTH BASIN IN
			47500	30.00	22.33	SOUTH BASIN OUT
		DL	47500	30.00	22.33	
		DN	67417	30.00	29.52	SITE OUTFALL
SW BASIN INFLOW	ADD	UN	9855	1.00	10.95	SW BASIN INFLOW
		DL	9855	1.00	10.95	
		DN	9855	1.00	10.95	SW BASIN IN
SW BASIN OUT SW BASIN OUT	PONDrt	UN	9855	1.00	10.95	SW BASIN IN
			9855	16.00	2.52	SW BASIN OUT
		DL	9855	16.00	2.52	
		DN	67417	30.00	29.52	SITE OUTFALL
SW BYPASS	ADD	UN	1035	1.00	1.15	SW BYPASS
		DL	1035	1.00	1.15	
		DN	67417	30.00	29.52	SITE OUTFALL
WET BASIN INFLOW	ADD	UN	5151	1.00	2.91	WET BASIN INFLOW
		DL	5151	1.00	2.91	
		DN	5151	1.00	2.91	WET BASIN IN
WET BASIN OUTFLOW WET BASIN OUTFLOW	PONDrt	UN	5151	1.00	2.91	WET BASIN IN
			5146	30.00	1.88	WET BASIN OUT
		DL	5146	30.00	1.88	
		DN	47500	30.00	25.41	SOUTH BASIN IN



Type.... Executive Summary (Nodes)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 2.03  
 Event: 015 yr

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Node ID	Type	HYG Vol cu.ft	Trun.	Qpeak min	Qpeak cfs	Max WSEL ft
Outfall SITE OUTFALL	JCT	104361		30.00	44.16	
SOUTH BASIN IN	POND	73203		30.00	39.07	
SOUTH BASIN OUT	POND	73203		30.00	33.68	543.63
SOUTH BASIN INFL	HYG	63738		1.00	36.01	
SOUTH BYPASS	HYG	13381		1.00	7.56	
SW BASIN IN	POND	16029		1.00	17.81	
SW BASIN OUT	POND	16029		16.00	3.21	548.47
SW BASIN INFLOW	HYG	16029		1.00	17.81	
SW BYPASS	HYG	1242		1.00	1.38	
WET BASIN IN	POND	8390		1.00	4.74	
WET BASIN OUT	POND	8385		30.00	3.06	555.72
WET BASIN BYPASS	HYG	279		1.00	.31	
WET BASIN INFLOW	HYG	8390		1.00	4.74	

Type.... Executive Summary (Links)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

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 Event: 015 yr

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol cu.ft	Trun.	Peak Time min	Peak Q cfs	End Points
A 20	ADD	UN	279		1.00	.31	WET BASIN BYPASS
		DL	279		1.00	.31	
		DN	104361		30.00	44.16	SITE OUTFALL
BYPASS AREAS	ADD	UN	13381		1.00	7.56	SOUTH BYPASS
		DL	13381		1.00	7.56	
		DN	104361		30.00	44.16	SITE OUTFALL
SOUTH BASIN INFL	ADD	UN	63738		1.00	36.01	SOUTH BASIN INFL
		DL	63738		1.00	36.01	
		DN	73203		30.00	39.07	SOUTH BASIN IN
SOUTH BASIN OUT	PONDrt	UN	73203		30.00	39.07	SOUTH BASIN IN
SOUTH BASIN OUT			73203		30.00	33.68	SOUTH BASIN OUT
		DL	73203		30.00	33.68	
		DN	104361		30.00	44.16	SITE OUTFALL
SW BASIN INFLOW	ADD	UN	16029		1.00	17.81	SW BASIN INFLOW
		DL	16029		1.00	17.81	
		DN	16029		1.00	17.81	SW BASIN IN
SW BASIN OUT	PONDrt	UN	16029		1.00	17.81	SW BASIN IN
SW BASIN OUT			16029		16.00	3.21	SW BASIN OUT
		DL	16029		16.00	3.21	
		DN	104361		30.00	44.16	SITE OUTFALL
SW BYPASS	ADD	UN	1242		1.00	1.38	SW BYPASS
		DL	1242		1.00	1.38	
		DN	104361		30.00	44.16	SITE OUTFALL
WET BASIN INFLOW	ADD	UN	8390		1.00	4.74	WET BASIN INFLOW
		DL	8390		1.00	4.74	
		DN	8390		1.00	4.74	WET BASIN IN
WET BASIN OUTFLOW	PONDrt	UN	8390		1.00	4.74	WET BASIN IN
WET BASIN OUTFLOW			8385		30.00	3.06	WET BASIN OUT
		DL	8385		30.00	3.06	
		DN	73203		30.00	39.07	SOUTH BASIN IN

Type.... Executive Summary (Nodes)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 2.05  
 Event: 025 yr

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Node ID	Type	HYG Vol cu.ft	Trun.	Qpeak min	Qpeak cfs	Max WSEL ft
Outfall SITE OUTFALL	JCT	128781		30.00	53.99	
SOUTH BASIN IN	POND	90324		30.00	48.46	
SOUTH BASIN OUT	POND	90324		30.00	41.38	544.09
SOUTH BASIN INFL	HYG	78641		1.00	44.43	
SOUTH BYPASS	HYG	16514		1.00	9.33	
SW BASIN IN	POND	19782		1.00	21.98	
SW BASIN OUT	POND	19782		16.00	3.63	548.66
SW BASIN INFLOW	HYG	19782		1.00	21.98	
SW BYPASS	HYG	1539		1.00	1.71	
WET BASIN IN	POND	10355		1.00	5.85	
WET BASIN OUT	POND	10350		30.00	4.03	555.78
WET BASIN BYPASS	HYG	342		1.00	.38	
WET BASIN INFLOW	HYG	10355		1.00	5.85	

Type.... Executive Summary (Links)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 2.06  
 Event: 025 yr

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol cu.ft	Trun.	Peak Time min	Peak Q cfs	End Points
A 20	ADD	UN	342		1.00	.38	WET BASIN BYPASS
		DL	342		1.00	.38	
		DN	128781		30.00	53.99	SITE OUTFALL
BYPASS AREAS	ADD	UN	16514		1.00	9.33	SOUTH BYPASS
		DL	16514		1.00	9.33	
		DN	128781		30.00	53.99	SITE OUTFALL
SOUTH BASIN INFL	ADD	UN	78641		1.00	44.43	SOUTH BASIN INFL
		DL	78641		1.00	44.43	
		DN	90324		30.00	48.46	SOUTH BASIN IN
SOUTH BASIN OUT SOUTH BASIN OUT	PONDrt	UN	90324		30.00	48.46	SOUTH BASIN IN
			90324		30.00	41.38	SOUTH BASIN OUT
		DL	90324		30.00	41.38	
		DN	128781		30.00	53.99	SITE OUTFALL
SW BASIN INFLOW	ADD	UN	19782		1.00	21.98	SW BASIN INFLOW
		DL	19782		1.00	21.98	
		DN	19782		1.00	21.98	SW BASIN IN
SW BASIN OUT SW BASIN OUT	PONDrt	UN	19782		1.00	21.98	SW BASIN IN
			19782		16.00	3.63	SW BASIN OUT
		DL	19782		16.00	3.63	
		DN	128781		30.00	53.99	SITE OUTFALL
SW BYPASS	ADD	UN	1539		1.00	1.71	SW BYPASS
		DL	1539		1.00	1.71	
		DN	128781		30.00	53.99	SITE OUTFALL
WET BASIN INFLOW	ADD	UN	10355		1.00	5.85	WET BASIN INFLOW
		DL	10355		1.00	5.85	
		DN	10355		1.00	5.85	WET BASIN IN
WET BASIN OUTFLOW WET BASIN OUTFLOW	PONDrt	UN	10355		1.00	5.85	WET BASIN IN
			10350		30.00	4.03	WET BASIN OUT
		DL	10350		30.00	4.03	
		DN	90324		30.00	48.46	SOUTH BASIN IN

Type.... Executive Summary (Nodes)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 2.07  
 Event: 100 yr

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Node ID	Type	HYG Vol cu.ft	Trun.	Qpeak min	Qpeak cfs	Max WSEL ft
Outfall SITE OUTFALL	JCT	164867		30.00	74.27	
SOUTH BASIN IN	POND	115619		30.00	62.47	
SOUTH BASIN OUT	POND	115619		30.00	58.48	544.58
SOUTH BASIN INFL	HYG	100678		1.00	56.88	
SOUTH BYPASS	HYG	21152		1.00	11.95	
SW BASIN IN	POND	25326		1.00	28.14	
SW BASIN OUT	POND	25326		16.00	4.68	548.93
SW BASIN INFLOW	HYG	25326		1.00	28.14	
SW BYPASS	HYG	1971		1.00	2.19	
WET BASIN IN	POND	13240		1.00	7.48	
WET BASIN OUT	POND	13235		30.00	5.59	555.84
WET BASIN BYPASS	HYG	441		1.00	.49	
WET BASIN INFLOW	HYG	13240		1.00	7.48	

Type.... Executive Summary (Links)  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 2.08  
 Event: 100 yr

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol cu.ft	Trun.	Peak Time min	Peak Q cfs	End Points
A 20	ADD	UN	441		1.00	.49	WET BASIN BYPASS
		DL	441		1.00	.49	
		DN	164867		30.00	74.27	SITE OUTFALL
BYPASS AREAS	ADD	UN	21152		1.00	11.95	SOUTH BYPASS
		DL	21152		1.00	11.95	
		DN	164867		30.00	74.27	SITE OUTFALL
SOUTH BASIN INFL	ADD	UN	100678		1.00	56.88	SOUTH BASIN INFL
		DL	100678		1.00	56.88	
		DN	115619		30.00	62.47	SOUTH BASIN IN
SOUTH BASIN OUT	PONDrt	UN	115619		30.00	62.47	SOUTH BASIN IN
SOUTH BASIN OUT			115619		30.00	58.48	SOUTH BASIN OUT
		DL	115619		30.00	58.48	
		DN	164867		30.00	74.27	SITE OUTFALL
SW BASIN INFLOW	ADD	UN	25326		1.00	28.14	SW BASIN INFLOW
		DL	25326		1.00	28.14	
		DN	25326		1.00	28.14	SW BASIN IN
SW BASIN OUT	PONDrt	UN	25326		1.00	28.14	SW BASIN IN
SW BASIN OUT			25326		16.00	4.68	SW BASIN OUT
		DL	25326		16.00	4.68	
		DN	164867		30.00	74.27	SITE OUTFALL
SW BYPASS	ADD	UN	1971		1.00	2.19	SW BYPASS
		DL	1971		1.00	2.19	
		DN	164867		30.00	74.27	SITE OUTFALL
WET BASIN INFLOW	ADD	UN	13240		1.00	7.48	WET BASIN INFLOW
		DL	13240		1.00	7.48	
		DN	13240		1.00	7.48	WET BASIN IN
WET BASIN OUTFLOW	PONDrt	UN	13240		1.00	7.48	WET BASIN IN
WET BASIN OUTFLOW			13235		30.00	5.59	WET BASIN OUT
		DL	13235		30.00	5.59	
		DN	115619		30.00	62.47	SOUTH BASIN IN

Type.... Network Calcs Sequence  
Name.... Watershed  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100 Tag: 100

Page 2.09  
Event: 100 yr

NETWORK RUNOFF NODE SEQUENCE

```
=====
Runoff Data          Apply to Node          Receiving Link
=====
Read HYGWET BASIN INFLOW HYG Qin WET BASIN INFLOW Add Hyd WET BASIN INFLOW
Read HYG SOUTH BASIN INFL HYG Qin SOUTH BASIN INFL Add Hyd SOUTH BASIN INFL
Read HYG SOUTH BYPASS HYG Qin SOUTH BYPASS Add Hyd SOUTH BYPASS
Read HYG SW BASIN INFLOW HYG Qin SW BASIN INFLOW Add Hyd SW BASIN INFLOW
Read HYG SW BYPASS HYG Qin SW BYPASS Add Hyd SW BYPASS
Read HYG Wet Basin ByPass HYG Qin WET BASIN BYPASS Add Hyd WET BASIN BYPASS
=====
```

Type.... Network Calcs Sequence  
 Name.... Watershed  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 2.10  
 Event: 100 yr

NETWORK ROUTING SEQUENCE

```

=====
Link Operation                UPstream Node                DNstream Node
=====
Add Hyd WET BASIN INFLOW      HYG Qin WET BASIN INFLOW     Pond      WET BASIN  IN
POND ROUTE TOTAL OUTFLOW...
Total Pond Outflow           Pond      WET BASIN  IN      Outflow WET BASIN  OUT
SET POND ROUTING LINK TO TOTAL POND OUTFLOW...
Outlet WET BASIN OUTFLW      Outflow WET BASIN  OUT     Pond      SOUTH BASIN IN
Add Hyd SW BASIN INFLOW      HYG Qin SW BASIN INFLOW      Pond      SW BASIN   IN
POND ROUTE TOTAL OUTFLOW...
Total Pond Outflow           Pond      SW BASIN   IN      Outflow SW BASIN  OUT
SET POND ROUTING LINK TO TOTAL POND OUTFLOW...
Outlet SW BASIN OUT          Outflow SW BASIN  OUT     Jct       SITE OUTFALL
Add Hyd SOUTH BASIN INFL     HYG Qin SOUTH BASIN INFL     Pond      SOUTH BASIN IN
POND ROUTE TOTAL OUTFLOW...
Total Pond Outflow           Pond      SOUTH BASIN IN  Outflow SOUTH BASIN  OUT
SET POND ROUTING LINK TO TOTAL POND OUTFLOW...
Outlet SOUTH BASIN OUT       Outflow SOUTH BASIN  OUT     Jct       SITE OUTFALL
Add Hyd SW BYPASS            HYG Qin SW BYPASS            Jct       SITE OUTFALL
Add Hyd BYPASS AREAS        HYG Qin SOUTH BYPASS        Jct       SITE OUTFALL
Add Hyd A 20                 HYG Qin WET BASIN BYPASS     Jct       SITE OUTFALL
=====

```



Type.... Read HYG  
 Name.... SOUTH BASIN INFL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

Page 3.01  
 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\S-BASIN.HYG  
 HYG ID = 002 YEAR  
 HYG Tag = 002

-----  
 Peak Discharge = 23.53 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 41648 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	23.53	23.53	23.53	23.53
5.00	23.53	23.53	23.53	23.53	23.53
10.00	23.53	23.53	23.53	23.53	23.53
15.00	23.53	23.53	23.53	23.53	23.53
20.00	23.53	23.53	23.53	23.53	23.53
25.00	23.53	23.53	23.53	23.53	23.53
30.00	23.53				

Type.... Read HYG  
 Name.... SOUTH BASIN INFL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

Page 3.02  
 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\S-BASIN.HYG  
 HYG ID = 015 YEAR  
 HYG Tag = 015

-----  
 Peak Discharge = 36.01 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 63738 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	36.01	36.01	36.01	36.01
5.00	36.01	36.01	36.01	36.01	36.01
10.00	36.01	36.01	36.01	36.01	36.01
15.00	36.01	36.01	36.01	36.01	36.01
20.00	36.01	36.01	36.01	36.01	36.01
25.00	36.01	36.01	36.01	36.01	36.01
30.00	36.01				

Type.... Read HYG  
 Name.... SOUTH BASIN INFL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 025

Page 3.03  
 Event: 025 yr

HYG file = G:\00XXX\00228-10\DETEN\S-BASIN.HYG  
 HYG ID = 025 YEAR  
 HYG Tag = 025

-----  
 Peak Discharge = 44.43 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 78641 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	44.43	44.43	44.43	44.43
5.00	44.43	44.43	44.43	44.43	44.43
10.00	44.43	44.43	44.43	44.43	44.43
15.00	44.43	44.43	44.43	44.43	44.43
20.00	44.43	44.43	44.43	44.43	44.43
25.00	44.43	44.43	44.43	44.43	44.43
30.00	44.43				

Type.... Read HYG  
 Name.... SOUTH BASIN INFL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

Page 3.04  
 Event: 100 yr

HYG file = G:\00XXX\00228-10\DETEN\S-BASIN.HYG  
 HYG ID = 100 YEAR  
 HYG Tag = 100

-----  
 Peak Discharge = 56.88 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 100678 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	56.88	56.88	56.88	56.88
5.00	56.88	56.88	56.88	56.88	56.88
10.00	56.88	56.88	56.88	56.88	56.88
15.00	56.88	56.88	56.88	56.88	56.88
20.00	56.88	56.88	56.88	56.88	56.88
25.00	56.88	56.88	56.88	56.88	56.88
30.00	56.88				

Type.... Read HYG  
 Name.... SOUTH BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

Page 3.05  
 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\BYPASS.HYG  
 HYG ID = 002 YEAR  
 HYG Tag = 002

-----  
 Peak Discharge = 4.92 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 8708 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	4.92	4.92	4.92	4.92
5.00	4.92	4.92	4.92	4.92	4.92
10.00	4.92	4.92	4.92	4.92	4.92
15.00	4.92	4.92	4.92	4.92	4.92
20.00	4.92	4.92	4.92	4.92	4.92
25.00	4.92	4.92	4.92	4.92	4.92
30.00	4.92				

Type.... Read HYG  
 Name.... SOUTH BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

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 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\BYPASS.HYG  
 HYG ID = 015 YEAR  
 HYG Tag = 015

-----  
 Peak Discharge = 7.56 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 13381 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	7.56	7.56	7.56	7.56
5.00	7.56	7.56	7.56	7.56	7.56
10.00	7.56	7.56	7.56	7.56	7.56
15.00	7.56	7.56	7.56	7.56	7.56
20.00	7.56	7.56	7.56	7.56	7.56
25.00	7.56	7.56	7.56	7.56	7.56
30.00	7.56				

Type.... Read HYG  
Name.... SOUTH BYPASS  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... Tag: 025

Page 3.07  
Event: 025 yr

HYG file = G:\00XXX\00228-10\DETEN\BYPASS.HYG  
HYG ID = 025 YEAR  
HYG Tag = 025

-----  
Peak Discharge = 9.33 cfs  
Time to Peak = 1.00 min  
HYG Volume = 16514 cu.ft  
-----

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = 1.00 min  
Time on left represents time for first value in each row.

Time min					
.00	.00	9.33	9.33	9.33	9.33
5.00	9.33	9.33	9.33	9.33	9.33
10.00	9.33	9.33	9.33	9.33	9.33
15.00	9.33	9.33	9.33	9.33	9.33
20.00	9.33	9.33	9.33	9.33	9.33
25.00	9.33	9.33	9.33	9.33	9.33
30.00	9.33				

Type.... Read HYG  
 Name.... SOUTH BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

Page 3.08  
 Event: 100 yr

HYG file = G:\00XXX\00228-10\DETEN\BYPASS.HYG  
 HYG ID = 100 YEAR  
 HYG Tag = 100

-----  
 Peak Discharge = 11.95 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 21152 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	11.95	11.95	11.95	11.95
5.00	11.95	11.95	11.95	11.95	11.95
10.00	11.95	11.95	11.95	11.95	11.95
15.00	11.95	11.95	11.95	11.95	11.95
20.00	11.95	11.95	11.95	11.95	11.95
25.00	11.95	11.95	11.95	11.95	11.95
30.00	11.95				



Type.... Read HYG  
 Name.... SW BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

Page 3.09  
 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BASIN.HYG  
 HYG ID = 002 YEAR  
 HYG Tag = 002

-----  
 Peak Discharge = 10.95 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 9855 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	10.95	10.95	10.95	10.95
5.00	10.95	10.95	10.95	10.95	10.95
10.00	10.95	10.95	10.95	10.95	10.95
15.00	10.95	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

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 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BASIN.HYG  
 HYG ID = 015 YEAR  
 HYG Tag = 015

-----  
 Peak Discharge = 17.81 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 16029 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	17.81	17.81	17.81	17.81
5.00	17.81	17.81	17.81	17.81	17.81
10.00	17.81	17.81	17.81	17.81	17.81
15.00	17.81	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 025

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 Event: 025 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BASIN.HYG  
 HYG ID = 025 YEAR  
 HYG Tag = 025

-----  
 Peak Discharge = 21.98 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 19782 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	21.98	21.98	21.98	21.98
5.00	21.98	21.98	21.98	21.98	21.98
10.00	21.98	21.98	21.98	21.98	21.98
15.00	21.98	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

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 Event: 100 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BASIN.HYG  
 HYG ID = 100 YEAR  
 HYG Tag = 100

-----  
 Peak Discharge = 28.14 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 25326 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	28.14	28.14	28.14	28.14
5.00	28.14	28.14	28.14	28.14	28.14
10.00	28.14	28.14	28.14	28.14	28.14
15.00	28.14	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

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 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BYPAS.HYG  
 HYG ID = 002 YEAR  
 HYG Tag = 002

-----  
 Peak Discharge = 1.15 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 1035 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	1.15	1.15	1.15	1.15
5.00	1.15	1.15	1.15	1.15	1.15
10.00	1.15	1.15	1.15	1.15	1.15
15.00	1.15	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

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 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BYPAS.HYG  
 HYG ID = 015 YEAR  
 HYG Tag = 015

-----  
 Peak Discharge = 1.38 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 1242 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	1.38	1.38	1.38	1.38
5.00	1.38	1.38	1.38	1.38	1.38
10.00	1.38	1.38	1.38	1.38	1.38
15.00	1.38	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 025

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 Event: 025 yr

HYG file = G:\00XXX\00228-10\DETEN\SW-BYPAS.HYG  
 HYG ID = 025 YEAR  
 HYG Tag = 025

-----  
 Peak Discharge = 1.71 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 1539 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	1.71	1.71	1.71	1.71
5.00	1.71	1.71	1.71	1.71	1.71
10.00	1.71	1.71	1.71	1.71	1.71
15.00	1.71	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... SW BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

HYG file = G:\00XXX\00228-10\DETEN\SW-BYPAS.HYG  
 HYG ID = 100 YEAR  
 HYG Tag = 100

-----  
 Peak Discharge = 2.19 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 1971 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	2.19	2.19	2.19	2.19
5.00	2.19	2.19	2.19	2.19	2.19
10.00	2.19	2.19	2.19	2.19	2.19
15.00	2.19	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				



Type.... Read HYG  
 Name.... WET BASIN BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

Page 3.17  
 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBYPSS.HYG  
 HYG ID = HYG 10  
 HYG Tag = 2-yr

-----  
 Peak Discharge = .19 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 171 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min	Output Time increment = 1.00 min				
.00	.00	.19	.19	.19	.19
5.00	.19	.19	.19	.19	.19
10.00	.19	.19	.19	.19	.19
15.00	.19	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... WET BASIN BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

Page 3.18  
 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBYPSS.HYG  
 HYG ID = HYG 20  
 HYG Tag =

-----  
 Peak Discharge = .31 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 279 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min	HYDROGRAPH ORDINATES (cfs)				
.00	.00	.31	.31	.31	.31
5.00	.31	.31	.31	.31	.31
10.00	.31	.31	.31	.31	.31
15.00	.31	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... WET BASIN BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 025

HYG file = G:\00XXX\00228-10\DETEN\WETBYPSS.HYG  
 HYG ID = HYG 30  
 HYG Tag = 25yr

-----  
 Peak Discharge = .38 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 342 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
.00	.00	.38	.38	.38	.38	.38
5.00	.38	.38	.38	.38	.38	.38
10.00	.38	.38	.38	.38	.38	.38
15.00	.38	.00	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00	.00
30.00	.00					

Type.... Read HYG  
 Name.... WET BASIN BYPASS  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

Page 3.20  
 Event: 100 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBYPSS.HYG  
 HYG ID = 100yr  
 HYG Tag = 15 min

-----  
 Peak Discharge = .49 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 441 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	.49	.49	.49	.49
5.00	.49	.49	.49	.49	.49
10.00	.49	.49	.49	.49	.49
15.00	.49	.00	.00	.00	.00
20.00	.00	.00	.00	.00	.00
25.00	.00	.00	.00	.00	.00
30.00	.00				

Type.... Read HYG  
 Name.... WET BASIN INFLOW Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 002

Page 3.21  
 Event: 002 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBASIN.HYG  
 HYG ID = 002 YEAR  
 HYG Tag = 002

-----  
 Peak Discharge = 2.91 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 5151 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	2.91	2.91	2.91	2.91
5.00	2.91	2.91	2.91	2.91	2.91
10.00	2.91	2.91	2.91	2.91	2.91
15.00	2.91	2.91	2.91	2.91	2.91
20.00	2.91	2.91	2.91	2.91	2.91
25.00	2.91	2.91	2.91	2.91	2.91
30.00	2.91				

Type.... Read HYG  
 Name.... WET BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 015

Page 3.22  
 Event: 015 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBASIN.HYG  
 HYG ID = 015 YEAR  
 HYG Tag = 015

-----  
 Peak Discharge = 4.74 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 8390 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	4.74	4.74	4.74	4.74
5.00	4.74	4.74	4.74	4.74	4.74
10.00	4.74	4.74	4.74	4.74	4.74
15.00	4.74	4.74	4.74	4.74	4.74
20.00	4.74	4.74	4.74	4.74	4.74
25.00	4.74	4.74	4.74	4.74	4.74
30.00	4.74				

Type.... Read HYG  
 Name.... WET BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 025

Page 3.23  
 Event: 025 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBASIN.HYG  
 HYG ID = 025 YEAR  
 HYG Tag = 025

-----  
 Peak Discharge = 5.85 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 10355 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	5.85	5.85	5.85	5.85
5.00	5.85	5.85	5.85	5.85	5.85
10.00	5.85	5.85	5.85	5.85	5.85
15.00	5.85	5.85	5.85	5.85	5.85
20.00	5.85	5.85	5.85	5.85	5.85
25.00	5.85	5.85	5.85	5.85	5.85
30.00	5.85				

Type.... Read HYG  
 Name.... WET BASIN INFLOW  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... Tag: 100

Page 3.24  
 Event: 100 yr

HYG file = G:\00XXX\00228-10\DETEN\WETBASIN.HYG  
 HYG ID = 100 YEAR  
 HYG Tag = 100

-----  
 Peak Discharge = 7.48 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 13240 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	7.48	7.48	7.48	7.48
5.00	7.48	7.48	7.48	7.48	7.48
10.00	7.48	7.48	7.48	7.48	7.48
15.00	7.48	7.48	7.48	7.48	7.48
20.00	7.48	7.48	7.48	7.48	7.48
25.00	7.48	7.48	7.48	7.48	7.48
30.00	7.48				



Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 4.01  
 Event: 002 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SITE OUTFALL

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
SOUTH BASIN OUT  SOUTH BASIN IN      SOUTH BASIN OUT 002
SW BYPASS        SW BYPASS           002 YEAR         002
BYPASS AREAS     SOUTH BYPASS        002 YEAR         002
SW BASIN OUT     SW BASIN IN        SW BASIN OUT     002
A 20            WET BASIN BYPASS    HYG 10           2-yr
=====
  
```

INFLOWS TO: SITE OUTFALL

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time    Peak Flow
              cu.ft       min          cfs
-----
              SOUTH BASIN OUT 002          47500        30.00        22.33
              002 YEAR       002          1035         1.00         1.15
              002 YEAR       002          8708         1.00         4.92
              SW BASIN OUT   002          9855         16.00        2.52
              HYG 10        2-yr         171          1.00         .19
  
```

TOTAL FLOW INTO: SITE OUTFALL

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time    Peak Flow
              cu.ft       min          cfs
-----
              SITE OUTFALL   002          67417        30.00        29.52
  
```

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 4.02  
 Event: 002 yr

TOTAL NODE INFLOW...  
 HYG file =  
 HYG ID = SITE OUTFALL  
 HYG Tag = 002

-----  
 Peak Discharge = 29.52 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 67417 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)						
Time min	Output Time increment = 1.00 min					
	Time on left represents time for first value in each row.					
.00	.00	15.36	18.83	19.76	20.65	
5.00	21.35	22.01	22.65	23.26	23.85	
10.00	24.41	24.94	25.45	25.95	26.44	
15.00	26.91	25.98	26.33	26.66	26.98	
20.00	27.28	27.56	27.83	28.08	28.32	
25.00	28.55	28.77	28.97	29.17	29.35	
30.00	29.52	24.07	22.87	21.74	20.67	
35.00	19.66	18.74	17.88	17.07	16.30	
40.00	15.57	14.88	14.22	13.59	12.33	
45.00	10.29	7.73	3.05	3.00	2.95	
50.00	2.90	2.86	2.81	2.77	2.72	
55.00	2.68	2.64	2.60	2.56	2.52	
60.00	2.48	2.45	2.41	2.37	2.31	
65.00	2.25	2.19	2.13	2.07	2.01	
70.00	1.96	1.91	1.86	1.81	1.76	
75.00	1.71	1.67	1.62	1.58	1.54	
80.00	1.50	1.46	1.42	1.38	1.35	
85.00	1.31	1.28	1.24	.88	.24	
90.00	.23	.22	.22	.21	.20	
95.00	.19	.19	.18	.17	.17	
100.00	.16	.16	.15	.15	.14	
105.00	.14	.13	.13	.12	.12	
110.00	.11	.11	.11	.10	.10	
115.00	.10	.09	.09	.09	.08	
120.00	.08	.08	.08	.07	.07	
125.00	.07	.07	.06	.06	.06	
130.00	.06	.05	.05	.05	.05	
135.00	.05	.05	.04	.04	.04	
140.00	.04	.04	.04	.04	.03	
145.00	.03	.03	.03	.03	.03	
150.00	.03	.03	.03	.03	.02	
155.00	.02	.02	.02	.02	.02	
160.00	.02	.02	.02	.02	.02	

Type.... Node: Addition Summary  
Name.... SITE OUTFALL  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 002 Tag: 002

Page 4.03  
Event: 002 yr

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = 1.00 min  
Time on left represents time for first value in each row.

---

Time min					
165.00	.02	.02	.02	.01	.01
170.00	.01	.01	.01	.01	.01
175.00	.01	.01	.01	.01	.01
180.00	.01	.01	.01	.01	.01
185.00	.01	.01	.01	.01	.01
190.00	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.00
200.00	.00	.00	.00	.00	.00
205.00	.00	.00	.00	.00	.00
210.00	.00	.00	.00	.00	.00

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 4.04  
 Event: 015 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SITE OUTFALL

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
SOUTH BASIN OUT  SOUTH BASIN IN          SOUTH BASIN OUT 015
SW BYPASS        SW BYPASS              015 YEAR        015
BYPASS AREAS     SOUTH BYPASS           015 YEAR        015
SW BASIN OUT     SW BASIN IN           SW BASIN OUT    015
A 20             WET BASIN BYPASS      HYG 20
=====

```

INFLOWS TO: SITE OUTFALL

```

-----
HYG file          HYG ID          HYG tag          Volume          Peak Time        Peak Flow
                   cu.ft          min              cfs
-----
                SOUTH BASIN OUT  015             73203           30.00           33.68
                015 YEAR          015             1242            1.00            1.38
                015 YEAR          015             13381           1.00            7.56
                SW BASIN OUT    015             16029           16.00           3.21
                HYG 20              279             1.00            .31
-----

```

TOTAL FLOW INTO: SITE OUTFALL

```

-----
HYG file          HYG ID          HYG tag          Volume          Peak Time        Peak Flow
                   cu.ft          min              cfs
-----
                SITE OUTFALL    015             104361          30.00           44.16
-----

```

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 4.05  
 Event: 015 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SITE OUTFALL  
 HYG Tag = 015

-----  
 Peak Discharge = 44.16 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 104361 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time min	Time on left represents time for first value in each row.				
.00	.00	19.81	23.04	24.65	26.05
5.00	27.38	28.65	29.93	31.15	32.30
10.00	33.41	34.46	35.45	36.41	37.34
15.00	38.23	37.32	38.00	38.64	39.25
20.00	39.83	40.37	40.89	41.37	41.83
25.00	42.27	42.69	43.09	43.46	43.82
30.00	44.16	35.79	33.91	32.16	30.52
35.00	28.96	27.50	26.14	24.88	23.69
40.00	22.56	21.50	20.49	19.55	18.70
45.00	17.88	17.11	16.38	15.68	15.02
50.00	14.39	13.79	11.93	10.13	6.34
55.00	3.72	3.66	3.60	3.54	3.48
60.00	3.42	3.37	3.31	3.26	3.21
65.00	3.16	3.11	3.07	3.02	2.98
70.00	2.93	2.89	2.85	2.81	2.77
75.00	2.73	2.69	2.66	2.62	2.59
80.00	2.55	2.52	2.49	2.45	2.42
85.00	2.39	2.36	2.33	2.30	2.28
90.00	2.25	2.22	2.19	2.17	2.14
95.00	2.12	2.09	2.06	2.01	1.96
100.00	1.91	1.86	1.81	1.76	1.72
105.00	1.67	1.63	1.59	1.55	1.51
110.00	1.47	1.43	1.40	1.36	1.33
115.00	1.29	1.26	1.23	1.20	1.17
120.00	1.14	1.11	.61	.12	.11
125.00	.11	.11	.10	.10	.10
130.00	.09	.09	.09	.08	.08
135.00	.08	.07	.07	.07	.07
140.00	.06	.06	.06	.06	.06
145.00	.05	.05	.05	.05	.05
150.00	.05	.04	.04	.04	.04
155.00	.04	.04	.04	.03	.03
160.00	.03	.03	.03	.03	.03

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 4.06  
 Event: 015 yr

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

---

Time min						
165.00	.03	.03	.03	.02	.02	.02
170.00	.02	.02	.02	.02	.02	.02
175.00	.02	.02	.02	.02	.02	.02
180.00	.02	.02	.01	.01	.01	.01
185.00	.01	.01	.01	.01	.01	.01
190.00	.01	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.00	.00	.00
215.00	.00	.00	.00	.00	.00	.00
220.00	.00	.00	.00	.00	.00	.00
225.00	.00	.00	.00	.00	.00	.00

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 4.07  
 Event: 025 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SITE OUTFALL

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
SOUTH BASIN OUT  SOUTH BASIN IN          SOUTH BASIN OUT 025
SW BYPASS        SW BYPASS              025 YEAR         025
BYPASS AREAS     SOUTH BYPASS          025 YEAR         025
SW BASIN OUT     SW BASIN IN           SW BASIN OUT     025
A 20             WET BASIN BYPASS      HYG 30           25yr
=====

```

INFLOWS TO: SITE OUTFALL

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time    Peak Flow
              cu.ft       min          cfs
-----
              SOUTH BASIN OUT 025          90324       30.00       41.38
              025 YEAR       025          1539        1.00        1.71
              025 YEAR       025          16514       1.00        9.33
              SW BASIN OUT   025          19782       16.00       3.63
              HYG 30         25yr         342         1.00        .38
-----

```

TOTAL FLOW INTO: SITE OUTFALL

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time    Peak Flow
              cu.ft       min          cfs
-----
              SITE OUTFALL   025          128781      30.00       53.99
-----

```

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 4.08  
 Event: 025 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SITE OUTFALL  
 HYG Tag = 025

-----  
 Peak Discharge = 53.99 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 128781 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	22.96	26.01	27.99	29.83
5.00	31.63	33.39	35.07	36.66	38.18
10.00	39.65	41.06	42.40	43.67	44.88
15.00	46.03	44.96	45.87	46.73	47.53
20.00	48.30	49.02	49.70	50.34	50.95
25.00	51.52	52.06	52.58	53.07	53.55
30.00	53.99	43.68	41.36	39.18	37.12
35.00	35.18	33.39	31.70	30.11	28.60
40.00	27.19	25.89	24.67	23.51	22.42
45.00	21.38	20.40	19.51	18.68	17.89
50.00	17.13	16.42	15.74	15.09	14.48
55.00	13.78	11.66	9.99	5.28	4.05
60.00	3.98	3.92	3.85	3.79	3.73
65.00	3.67	3.62	3.56	3.50	3.45
70.00	3.40	3.35	3.30	3.25	3.21
75.00	3.16	3.11	3.07	3.03	2.99
80.00	2.95	2.91	2.87	2.83	2.79
85.00	2.76	2.72	2.69	2.65	2.62
90.00	2.59	2.56	2.53	2.49	2.47
95.00	2.44	2.41	2.38	2.35	2.33
100.00	2.30	2.27	2.25	2.22	2.20
105.00	2.17	2.15	2.13	2.11	2.08
110.00	2.06	2.04	2.02	2.00	1.97
115.00	1.92	1.88	1.83	1.78	1.74
120.00	1.69	1.65	1.61	1.57	1.53
125.00	1.49	1.45	1.42	1.38	1.35
130.00	1.31	1.28	1.25	1.22	1.19
135.00	1.16	1.13	1.10	1.07	.82
140.00	.08	.08	.07	.07	.07
145.00	.07	.06	.06	.06	.06
150.00	.06	.05	.05	.05	.05
155.00	.05	.05	.04	.04	.04
160.00	.04	.04	.04	.04	.03



Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 4.09  
 Event: 025 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
Time on left represents time for first value in each row.					
165.00	.03	.03	.03	.03	.03
170.00	.03	.03	.03	.02	.02
175.00	.02	.02	.02	.02	.02
180.00	.02	.02	.02	.02	.02
185.00	.02	.02	.02	.01	.01
190.00	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.01	.01
215.00	.01	.01	.01	.01	.00
220.00	.00	.00	.00	.00	.00
225.00	.00	.00	.00	.00	.00
230.00	.00	.00	.00	.00	.00

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 4.10  
 Event: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SITE OUTFALL

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
SOUTH BASIN OUT  SOUTH BASIN IN      SOUTH BASIN OUT 100
SW BYPASS        SW BYPASS           100 YEAR        100
BYPASS AREAS    SOUTH BYPASS        100 YEAR        100
SW BASIN OUT    SW BASIN IN        SW BASIN OUT    100
A 20            WET BASIN BYPASS    100yr           15 min
=====
  
```

INFLOWS TO: SITE OUTFALL

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
              cu.ft         min          cfs
-----
              SOUTH BASIN OUT  100         115619      30.00       58.48
              100 YEAR        100         1971        1.00        2.19
              100 YEAR        100         21152       1.00        11.95
              SW BASIN OUT    100         25326       16.00       4.68
              100yr          15 min      441         1.00        .49
  
```

TOTAL FLOW INTO: SITE OUTFALL

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
              cu.ft         min          cfs
-----
              SITE OUTFALL    100         164867      30.00       74.27
  
```

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 4.11  
 Event: 100 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SITE OUTFALL  
 HYG Tag = 100

-----  
 Peak Discharge = 74.27 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 164867 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	27.23	30.33	32.95	35.53
5.00	38.03	40.41	42.71	44.92	47.02
10.00	49.00	50.91	52.74	54.47	56.12
15.00	57.68	56.81	57.83	59.08	60.99
20.00	62.74	64.31	65.73	67.01	68.16
25.00	69.20	70.25	71.52	72.59	73.49
30.00	74.27	58.13	52.46	47.49	44.35
35.00	42.05	39.88	37.83	35.89	34.08
40.00	32.39	30.80	29.29	27.87	26.56
45.00	25.33	24.17	23.07	22.03	21.04
50.00	20.13	19.30	18.50	17.74	17.02
55.00	16.34	15.68	15.06	14.48	12.74
60.00	10.95	7.76	4.55	4.48	4.41
65.00	4.34	4.27	4.20	4.14	4.08
70.00	4.02	3.96	3.90	3.85	3.79
75.00	3.74	3.68	3.63	3.58	3.53
80.00	3.49	3.44	3.39	3.35	3.30
85.00	3.26	3.22	3.18	3.14	3.10
90.00	3.06	3.02	2.98	2.95	2.91
95.00	2.88	2.84	2.81	2.78	2.75
100.00	2.72	2.68	2.65	2.63	2.60
105.00	2.57	2.54	2.51	2.49	2.46
110.00	2.43	2.41	2.38	2.36	2.33
115.00	2.31	2.29	2.26	2.24	2.22
120.00	2.20	2.18	2.15	2.13	2.11
125.00	2.09	2.07	2.05	2.03	2.02
130.00	2.00	1.98	1.96	1.94	1.92
135.00	1.91	1.89	1.84	1.80	1.75
140.00	1.71	1.67	1.62	1.58	1.54
145.00	1.51	1.47	1.43	1.40	1.36
150.00	1.33	1.30	1.26	1.23	1.20
155.00	1.17	1.14	1.12	1.09	1.06
160.00	1.04	.81	.04	.04	.04

Type.... Node: Addition Summary  
 Name.... SITE OUTFALL  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 4.12  
 Event: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
165.00	.04	.04	.04	.04	.03
170.00	.03	.03	.03	.03	.03
175.00	.03	.03	.03	.03	.02
180.00	.02	.02	.02	.02	.02
185.00	.02	.02	.02	.02	.02
190.00	.02	.02	.02	.01	.01
195.00	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.01	.01
215.00	.01	.01	.01	.01	.01
220.00	.01	.01	.01	.01	.00
225.00	.00	.00	.00	.00	.00
230.00	.00	.00	.00	.00	.00
235.00	.00	.00	.00	.00	.00

Type.... Time-Elev  
 Name.... SOUTH BASIN OUT Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 5.01  
 Event: 002 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	540.50	541.69	542.01	542.06	542.12
5.00	542.17	542.22	542.27	542.31	542.36
10.00	542.40	542.44	542.47	542.51	542.54
15.00	542.57	542.60	542.62	542.65	542.67
20.00	542.70	542.72	542.74	542.76	542.78
25.00	542.80	542.81	542.83	542.85	542.86
30.00	542.87	542.84	542.75	542.67	542.59
35.00	542.52	542.45	542.38	542.31	542.25
40.00	542.19	542.13	542.08	542.03	541.91
45.00	541.71	541.56	541.02	541.01	541.00
50.00	540.99	540.97	540.95	540.94	540.92
55.00	540.91	540.89	540.88	540.87	540.85
60.00	540.84	540.83	540.82	540.81	540.80
65.00	540.79	540.78	540.77	540.76	540.75
70.00	540.74	540.73	540.72	540.72	540.71
75.00	540.70	540.69	540.69	540.68	540.68
80.00	540.67	540.66	540.66	540.65	540.65
85.00	540.64	540.64	540.63	540.63	540.62
90.00	540.62	540.61	540.61	540.61	540.60
95.00	540.60	540.60	540.59	540.59	540.59
100.00	540.58	540.58	540.58	540.58	540.57
105.00	540.57	540.57	540.57	540.56	540.56
110.00	540.56	540.56	540.55	540.55	540.55
115.00	540.55	540.55	540.55	540.54	540.54
120.00	540.54	540.54	540.54	540.54	540.54
125.00	540.53	540.53	540.53	540.53	540.53
130.00	540.53	540.53	540.53	540.53	540.53
135.00	540.52	540.52	540.52	540.52	540.52
140.00	540.52	540.52	540.52	540.52	540.52
145.00	540.52	540.52	540.52	540.52	540.52
150.00	540.51	540.51	540.51	540.51	540.51
155.00	540.51	540.51	540.51	540.51	540.51
160.00	540.51	540.51	540.51	540.51	540.51
165.00	540.51	540.51	540.51	540.51	540.51
170.00	540.51	540.51	540.51	540.51	540.51
175.00	540.51	540.51	540.51	540.51	540.51
180.00	540.51	540.50	540.50	540.50	540.50
185.00	540.50	540.50	540.50	540.50	540.50
190.00	540.50	540.50	540.50	540.50	540.50
195.00	540.50	540.50	540.50	540.50	540.50
200.00	540.50	540.50	540.50	540.50	540.50
205.00	540.50	540.50	540.50	540.50	540.50
210.00	540.50	540.50	540.50	540.50	540.50

Type.... Time-Elev  
 Name.... SOUTH BASIN OUT Tag: 015  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 5.02  
 Event: 015 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	540.50	541.83	542.09	542.20	542.30
5.00	542.40	542.50	542.59	542.67	542.74
10.00	542.81	542.88	542.95	543.01	543.06
15.00	543.12	543.16	543.21	543.26	543.30
20.00	543.34	543.37	543.41	543.44	543.47
25.00	543.50	543.53	543.56	543.58	543.60
30.00	543.63	543.58	543.46	543.35	543.24
35.00	543.14	543.04	542.95	542.86	542.77
40.00	542.69	542.62	542.54	542.47	542.40
45.00	542.34	542.28	542.22	542.16	542.11
50.00	542.06	542.01	541.83	541.66	541.52
55.00	541.08	541.07	541.06	541.05	541.04
60.00	541.03	541.02	541.01	541.00	540.98
65.00	540.97	540.95	540.94	540.92	540.91
70.00	540.89	540.88	540.87	540.85	540.84
75.00	540.83	540.82	540.81	540.80	540.79
80.00	540.78	540.77	540.76	540.75	540.74
85.00	540.73	540.72	540.72	540.71	540.70
90.00	540.69	540.69	540.68	540.67	540.67
95.00	540.66	540.66	540.65	540.65	540.64
100.00	540.64	540.63	540.63	540.62	540.62
105.00	540.61	540.61	540.61	540.60	540.60
110.00	540.60	540.59	540.59	540.59	540.58
115.00	540.58	540.58	540.58	540.57	540.57
120.00	540.57	540.57	540.56	540.56	540.56
125.00	540.56	540.55	540.55	540.55	540.55
130.00	540.55	540.55	540.54	540.54	540.54
135.00	540.54	540.54	540.54	540.54	540.53
140.00	540.53	540.53	540.53	540.53	540.53
145.00	540.53	540.53	540.53	540.53	540.52
150.00	540.52	540.52	540.52	540.52	540.52
155.00	540.52	540.52	540.52	540.52	540.52
160.00	540.52	540.52	540.52	540.51	540.51
165.00	540.51	540.51	540.51	540.51	540.51
170.00	540.51	540.51	540.51	540.51	540.51
175.00	540.51	540.51	540.51	540.51	540.51
180.00	540.51	540.51	540.51	540.51	540.51
185.00	540.51	540.51	540.51	540.51	540.51
190.00	540.51	540.51	540.51	540.51	540.51
195.00	540.50	540.50	540.50	540.50	540.50
200.00	540.50	540.50	540.50	540.50	540.50
205.00	540.50	540.50	540.50	540.50	540.50
210.00	540.50	540.50	540.50	540.50	540.50
215.00	540.50	540.50	540.50	540.50	540.50
220.00	540.50	540.50	540.50	540.50	540.50

Type.... Time-Elev  
Name.... SOUTH BASIN OUT Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015 Tag: 015

Page 5.03  
Event: 015 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.			
225.00	540.50	540.50	540.50	540.50

Type.... Time-Elev  
 Name.... SOUTH BASIN OUT Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 5.04  
 Event: 025 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	540.50	541.92	542.14	542.29	542.43
5.00	542.56	542.68	542.79	542.89	542.99
10.00	543.08	543.17	543.25	543.32	543.39
15.00	543.46	543.52	543.58	543.63	543.68
20.00	543.73	543.78	543.82	543.86	543.90
25.00	543.94	543.97	544.00	544.03	544.06
30.00	544.09	544.03	543.90	543.76	543.64
35.00	543.52	543.41	543.30	543.19	543.10
40.00	543.00	542.91	542.82	542.74	542.66
45.00	542.59	542.52	542.45	542.38	542.32
50.00	542.26	542.20	542.14	542.09	542.04
55.00	541.98	541.78	541.62	541.39	541.10
60.00	541.09	541.07	541.06	541.05	541.04
65.00	541.03	541.02	541.02	541.01	541.00
70.00	540.98	540.96	540.95	540.93	540.92
75.00	540.90	540.89	540.87	540.86	540.85
80.00	540.84	540.83	540.81	540.80	540.79
85.00	540.78	540.77	540.76	540.75	540.75
90.00	540.74	540.73	540.72	540.71	540.71
95.00	540.70	540.69	540.69	540.68	540.67
100.00	540.67	540.66	540.66	540.65	540.64
105.00	540.64	540.63	540.63	540.63	540.62
110.00	540.62	540.61	540.61	540.61	540.60
115.00	540.60	540.59	540.59	540.59	540.59
120.00	540.58	540.58	540.58	540.57	540.57
125.00	540.57	540.57	540.56	540.56	540.56
130.00	540.56	540.56	540.55	540.55	540.55
135.00	540.55	540.55	540.55	540.54	540.54
140.00	540.54	540.54	540.54	540.54	540.54
145.00	540.53	540.53	540.53	540.53	540.53
150.00	540.53	540.53	540.53	540.53	540.52
155.00	540.52	540.52	540.52	540.52	540.52
160.00	540.52	540.52	540.52	540.52	540.52
165.00	540.52	540.52	540.52	540.52	540.51
170.00	540.51	540.51	540.51	540.51	540.51
175.00	540.51	540.51	540.51	540.51	540.51
180.00	540.51	540.51	540.51	540.51	540.51
185.00	540.51	540.51	540.51	540.51	540.51
190.00	540.51	540.51	540.51	540.51	540.51
195.00	540.51	540.51	540.51	540.51	540.51
200.00	540.50	540.50	540.50	540.50	540.50
205.00	540.50	540.50	540.50	540.50	540.50
210.00	540.50	540.50	540.50	540.50	540.50
215.00	540.50	540.50	540.50	540.50	540.50
220.00	540.50	540.50	540.50	540.50	540.50



Type.... Time-Elev  
Name.... SOUTH BASIN OUT Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025 Tag: 025

Page 5.05  
Event: 025 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
Time on left represents time for first value in each row.

Time min					
225.00	540.50	540.50	540.50	540.50	540.50
230.00	540.50	540.50	540.50	540.50	540.50

Type.... Time-Elev  
 Name.... SOUTH BASIN OUT Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 5.06  
 Event: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
.00	540.50	542.01	542.22	542.42	542.61
5.00	542.78	542.94	543.08	543.22	543.34
10.00	543.46	543.57	543.67	543.77	543.86
15.00	543.94	544.02	544.09	544.16	544.22
20.00	544.27	544.32	544.37	544.41	544.44
25.00	544.48	544.51	544.53	544.55	544.57
30.00	544.58	544.51	544.34	544.19	544.04
35.00	543.91	543.78	543.66	543.54	543.42
40.00	543.31	543.21	543.11	543.02	542.93
45.00	542.84	542.76	542.68	542.60	542.53
50.00	542.47	542.40	542.33	542.27	542.22
55.00	542.16	542.11	542.06	542.01	541.85
60.00	541.67	541.54	541.12	541.11	541.10
65.00	541.09	541.08	541.07	541.06	541.05
70.00	541.04	541.03	541.02	541.01	541.00
75.00	540.98	540.97	540.95	540.93	540.92
80.00	540.90	540.89	540.88	540.86	540.85
85.00	540.84	540.83	540.82	540.81	540.80
90.00	540.78	540.77	540.77	540.76	540.75
95.00	540.74	540.73	540.72	540.71	540.71
100.00	540.70	540.69	540.69	540.68	540.67
105.00	540.67	540.66	540.66	540.65	540.65
110.00	540.64	540.64	540.63	540.63	540.62
115.00	540.62	540.61	540.61	540.61	540.60
120.00	540.60	540.60	540.59	540.59	540.59
125.00	540.58	540.58	540.58	540.57	540.57
130.00	540.57	540.57	540.56	540.56	540.56
135.00	540.56	540.56	540.55	540.55	540.55
140.00	540.55	540.55	540.55	540.54	540.54
145.00	540.54	540.54	540.54	540.54	540.54
150.00	540.53	540.53	540.53	540.53	540.53
155.00	540.53	540.53	540.53	540.53	540.53
160.00	540.52	540.52	540.52	540.52	540.52
165.00	540.52	540.52	540.52	540.52	540.52
170.00	540.52	540.52	540.52	540.52	540.51
175.00	540.51	540.51	540.51	540.51	540.51
180.00	540.51	540.51	540.51	540.51	540.51
185.00	540.51	540.51	540.51	540.51	540.51
190.00	540.51	540.51	540.51	540.51	540.51
195.00	540.51	540.51	540.51	540.51	540.51
200.00	540.51	540.51	540.51	540.51	540.51
205.00	540.51	540.50	540.50	540.50	540.50
210.00	540.50	540.50	540.50	540.50	540.50
215.00	540.50	540.50	540.50	540.50	540.50
220.00	540.50	540.50	540.50	540.50	540.50

Type.... Time-Elev  
Name.... SOUTH BASIN OUT Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100 Tag: 100

Page 5.07  
Event: 100 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
Time on left represents time for first value in each row.

Time min					
225.00	540.50	540.50	540.50	540.50	540.50
230.00	540.50	540.50	540.50	540.50	540.50
235.00	540.50	540.50	540.50	540.50	540.50

Type.... Time-Elev  
 Name.... SW BASIN      OUT      Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002      Tag: 002

Page 5.08  
 Event: 002 yr

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	546.25	547.32	547.46	547.61	547.75
5.00	547.78	547.82	547.85	547.89	547.92
10.00	547.96	547.99	548.02	548.06	548.09
15.00	548.12	548.14	548.13	548.12	548.11
20.00	548.10	548.09	548.08	548.07	548.06
25.00	548.05	548.04	548.03	548.02	548.01
30.00	548.01	548.00	547.99	547.98	547.97
35.00	547.96	547.95	547.95	547.94	547.93
40.00	547.92	547.91	547.90	547.90	547.89
45.00	547.88	547.87	547.87	547.86	547.85
50.00	547.84	547.83	547.83	547.82	547.81
55.00	547.81	547.80	547.79	547.78	547.78
60.00	547.77	547.76	547.76	547.74	547.72
65.00	547.69	547.67	547.64	547.62	547.60
70.00	547.57	547.55	547.53	547.51	547.49
75.00	547.47	547.45	547.43	547.41	547.39
80.00	547.37	547.36	547.34	547.32	547.31
85.00	547.29	547.28	547.26	547.05	546.25

Type.... Time-Elev  
 Name.... SW BASIN      OUT      Tag: 015  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015      Tag: 015

Page 5.09  
 Event: 015 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	546.25	547.37	547.62	547.78	547.84
5.00	547.90	547.96	548.02	548.08	548.14
10.00	548.20	548.26	548.30	548.35	548.40
15.00	548.45	548.47	548.46	548.45	548.44
20.00	548.43	548.42	548.41	548.40	548.39
25.00	548.38	548.37	548.36	548.35	548.34
30.00	548.33	548.32	548.31	548.30	548.29
35.00	548.28	548.27	548.26	548.26	548.25
40.00	548.24	548.22	548.21	548.20	548.19
45.00	548.18	548.17	548.16	548.15	548.14
50.00	548.13	548.12	548.11	548.10	548.10
55.00	548.09	548.08	548.07	548.06	548.05
60.00	548.04	548.03	548.02	548.01	548.00
65.00	548.00	547.99	547.98	547.97	547.96
70.00	547.95	547.94	547.94	547.93	547.92
75.00	547.91	547.90	547.90	547.89	547.88
80.00	547.87	547.86	547.86	547.85	547.84
85.00	547.83	547.83	547.82	547.81	547.80
90.00	547.80	547.79	547.78	547.78	547.77
95.00	547.76	547.75	547.74	547.71	547.69
100.00	547.66	547.64	547.62	547.59	547.57
105.00	547.55	547.53	547.50	547.48	547.46
110.00	547.44	547.43	547.41	547.39	547.37
115.00	547.35	547.34	547.32	547.30	547.29
120.00	547.27	547.26	546.96	546.25	

Type.... Time-Elev  
 Name.... SW BASIN     OUT    Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025    Tag: 025

Page 5.10  
 Event: 025 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	546.25	547.40	547.71	547.82	547.89
5.00	547.97	548.05	548.12	548.20	548.27
10.00	548.33	548.39	548.45	548.51	548.57
15.00	548.63	548.66	548.64	548.63	548.62
20.00	548.61	548.60	548.59	548.58	548.57
25.00	548.55	548.54	548.53	548.52	548.51
30.00	548.50	548.49	548.48	548.47	548.46
35.00	548.45	548.44	548.43	548.42	548.41
40.00	548.40	548.39	548.38	548.37	548.36
45.00	548.35	548.34	548.33	548.32	548.31
50.00	548.30	548.29	548.28	548.28	548.27
55.00	548.26	548.25	548.24	548.23	548.22
60.00	548.21	548.20	548.19	548.18	548.17
65.00	548.16	548.15	548.14	548.13	548.12
70.00	548.11	548.10	548.09	548.08	548.07
75.00	548.06	548.05	548.04	548.03	548.02
80.00	548.02	548.01	548.00	547.99	547.98
85.00	547.97	547.96	547.96	547.95	547.94
90.00	547.93	547.92	547.91	547.91	547.90
95.00	547.89	547.88	547.87	547.87	547.86
100.00	547.85	547.84	547.84	547.83	547.82
105.00	547.81	547.81	547.80	547.79	547.78
110.00	547.78	547.77	547.76	547.76	547.75
115.00	547.72	547.69	547.67	547.65	547.62
120.00	547.60	547.58	547.55	547.53	547.51
125.00	547.49	547.47	547.45	547.43	547.41
130.00	547.39	547.38	547.36	547.34	547.32
135.00	547.31	547.29	547.28	547.26	547.12
140.00	546.25				

Type.... Time-Elev  
 Name.... SW BASIN      OUT      Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100      Tag: 100

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 Event: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	546.25	547.45	547.77	547.88	547.98
5.00	548.08	548.18	548.27	548.35	548.43
10.00	548.51	548.59	548.67	548.75	548.83
15.00	548.90	548.93	548.92	548.90	548.89
20.00	548.88	548.86	548.85	548.84	548.83
25.00	548.81	548.80	548.79	548.78	548.76
30.00	548.75	548.74	548.73	548.72	548.70
35.00	548.69	548.68	548.67	548.66	548.65
40.00	548.63	548.62	548.61	548.60	548.59
45.00	548.58	548.57	548.55	548.54	548.53
50.00	548.52	548.51	548.50	548.49	548.48
55.00	548.47	548.46	548.45	548.44	548.43
60.00	548.42	548.41	548.40	548.39	548.38
65.00	548.37	548.36	548.35	548.34	548.33
70.00	548.32	548.31	548.30	548.29	548.28
75.00	548.28	548.27	548.26	548.25	548.24
80.00	548.23	548.22	548.21	548.20	548.19
85.00	548.18	548.17	548.16	548.15	548.14
90.00	548.13	548.12	548.11	548.10	548.09
95.00	548.08	548.07	548.06	548.05	548.04
100.00	548.03	548.02	548.02	548.01	548.00
105.00	547.99	547.98	547.97	547.96	547.96
110.00	547.95	547.94	547.93	547.92	547.91
115.00	547.91	547.90	547.89	547.88	547.87
120.00	547.87	547.86	547.85	547.84	547.84
125.00	547.83	547.82	547.81	547.81	547.80
130.00	547.79	547.78	547.78	547.77	547.76
135.00	547.76	547.75	547.72	547.70	547.67
140.00	547.65	547.62	547.60	547.58	547.55
145.00	547.53	547.51	547.49	547.47	547.45
150.00	547.43	547.41	547.39	547.38	547.36
155.00	547.34	547.32	547.31	547.29	547.28
160.00	547.26	547.14	546.25		

Type.... Time-Elev  
 Name.... WET BASIN OUT Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	555.50	555.50	555.51	555.52	555.52
5.00	555.53	555.54	555.54	555.55	555.56
10.00	555.56	555.57	555.57	555.58	555.58
15.00	555.59	555.59	555.59	555.60	555.60
20.00	555.61	555.61	555.61	555.62	555.62
25.00	555.62	555.63	555.63	555.63	555.64
30.00	555.64	555.63	555.63	555.62	555.62
35.00	555.62	555.61	555.61	555.60	555.60
40.00	555.60	555.59	555.59	555.59	555.58
45.00	555.58	555.58	555.58	555.57	555.57
50.00	555.57	555.57	555.56	555.56	555.56
55.00	555.56	555.56	555.55	555.55	555.55
60.00	555.55	555.55	555.54	555.54	555.54
65.00	555.54	555.54	555.54	555.54	555.54
70.00	555.53	555.53	555.53	555.53	555.53
75.00	555.53	555.53	555.53	555.53	555.52
80.00	555.52	555.52	555.52	555.52	555.52
85.00	555.52	555.52	555.52	555.52	555.52
90.00	555.52	555.52	555.52	555.52	555.51
95.00	555.51	555.51	555.51	555.51	555.51
100.00	555.51	555.51	555.51	555.51	555.51
105.00	555.51	555.51	555.51	555.51	555.51
110.00	555.51	555.51	555.51	555.51	555.51
115.00	555.51	555.51	555.51	555.51	555.51
120.00	555.51	555.51	555.51	555.51	555.51
125.00	555.50	555.50	555.50	555.50	555.50
130.00	555.50	555.50	555.50	555.50	555.50
135.00	555.50	555.50	555.50	555.50	555.50
140.00	555.50	555.50	555.50	555.50	555.50
145.00	555.50	555.50	555.50	555.50	555.50
150.00	555.50	555.50	555.50	555.50	555.50
155.00	555.50	555.50	555.50	555.50	555.50
160.00	555.50	555.50	555.50	555.50	555.50
165.00	555.50	555.50	555.50	555.50	555.50
170.00	555.50	555.50	555.50	555.50	555.50
175.00	555.50	555.50	555.50	555.50	555.50
180.00	555.50	555.50	555.50	555.50	555.50
185.00	555.50	555.50	555.50	555.50	555.50
190.00	555.50	555.50	555.50	555.50	555.50
195.00	555.50	555.50	555.50	555.50	555.50
200.00	555.50	555.50	555.50	555.50	555.50
205.00	555.50	555.50	555.50	555.50	555.50
210.00	555.50	555.50	555.50	555.50	555.50



TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	555.50	555.51	555.52	555.53	555.54
5.00	555.55	555.56	555.57	555.58	555.59
10.00	555.60	555.61	555.62	555.62	555.63
15.00	555.64	555.65	555.65	555.66	555.67
20.00	555.67	555.68	555.68	555.69	555.70
25.00	555.70	555.71	555.71	555.72	555.72
30.00	555.72	555.72	555.71	555.70	555.70
35.00	555.69	555.68	555.68	555.67	555.66
40.00	555.66	555.65	555.65	555.64	555.64
45.00	555.63	555.63	555.62	555.62	555.62
50.00	555.61	555.61	555.60	555.60	555.60
55.00	555.59	555.59	555.59	555.58	555.58
60.00	555.58	555.58	555.57	555.57	555.57
65.00	555.57	555.56	555.56	555.56	555.56
70.00	555.56	555.55	555.55	555.55	555.55
75.00	555.55	555.54	555.54	555.54	555.54
80.00	555.54	555.54	555.54	555.53	555.53
85.00	555.53	555.53	555.53	555.53	555.53
90.00	555.53	555.53	555.53	555.52	555.52
95.00	555.52	555.52	555.52	555.52	555.52
100.00	555.52	555.52	555.52	555.52	555.52
105.00	555.52	555.52	555.52	555.51	555.51
110.00	555.51	555.51	555.51	555.51	555.51
115.00	555.51	555.51	555.51	555.51	555.51
120.00	555.51	555.51	555.51	555.51	555.51
125.00	555.51	555.51	555.51	555.51	555.51
130.00	555.51	555.51	555.51	555.51	555.51
135.00	555.51	555.51	555.51	555.51	555.50
140.00	555.50	555.50	555.50	555.50	555.50
145.00	555.50	555.50	555.50	555.50	555.50
150.00	555.50	555.50	555.50	555.50	555.50
155.00	555.50	555.50	555.50	555.50	555.50
160.00	555.50	555.50	555.50	555.50	555.50
165.00	555.50	555.50	555.50	555.50	555.50
170.00	555.50	555.50	555.50	555.50	555.50
175.00	555.50	555.50	555.50	555.50	555.50
180.00	555.50	555.50	555.50	555.50	555.50
185.00	555.50	555.50	555.50	555.50	555.50
190.00	555.50	555.50	555.50	555.50	555.50
195.00	555.50	555.50	555.50	555.50	555.50
200.00	555.50	555.50	555.50	555.50	555.50
205.00	555.50	555.50	555.50	555.50	555.50
210.00	555.50	555.50	555.50	555.50	555.50
215.00	555.50	555.50	555.50	555.50	555.50
220.00	555.50	555.50	555.50	555.50	555.50

Type.... Time-Elev  
Name.... WET BASIN    OUT    Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015    Tag: 015

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Event: 015 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.		
225.00	555.50	555.50	555.50

Type.... Time-Elev  
 Name.... WET BASIN OUT Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

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 Event: 025 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	555.50	555.51	555.52	555.54	555.55
5.00	555.56	555.58	555.59	555.60	555.61
10.00	555.62	555.63	555.64	555.65	555.66
15.00	555.67	555.68	555.69	555.70	555.71
20.00	555.71	555.72	555.73	555.73	555.74
25.00	555.75	555.75	555.76	555.77	555.77
30.00	555.78	555.77	555.76	555.75	555.74
35.00	555.73	555.72	555.71	555.71	555.70
40.00	555.69	555.69	555.68	555.67	555.67
45.00	555.66	555.66	555.65	555.65	555.64
50.00	555.64	555.63	555.63	555.62	555.62
55.00	555.61	555.61	555.61	555.60	555.60
60.00	555.60	555.59	555.59	555.59	555.58
65.00	555.58	555.58	555.57	555.57	555.57
70.00	555.57	555.56	555.56	555.56	555.56
75.00	555.56	555.55	555.55	555.55	555.55
80.00	555.55	555.55	555.54	555.54	555.54
85.00	555.54	555.54	555.54	555.54	555.53
90.00	555.53	555.53	555.53	555.53	555.53
95.00	555.53	555.53	555.53	555.53	555.52
100.00	555.52	555.52	555.52	555.52	555.52
105.00	555.52	555.52	555.52	555.52	555.52
110.00	555.52	555.52	555.52	555.51	555.51
115.00	555.51	555.51	555.51	555.51	555.51
120.00	555.51	555.51	555.51	555.51	555.51
125.00	555.51	555.51	555.51	555.51	555.51
130.00	555.51	555.51	555.51	555.51	555.51
135.00	555.51	555.51	555.51	555.51	555.51
140.00	555.51	555.51	555.51	555.51	555.50
145.00	555.50	555.50	555.50	555.50	555.50
150.00	555.50	555.50	555.50	555.50	555.50
155.00	555.50	555.50	555.50	555.50	555.50
160.00	555.50	555.50	555.50	555.50	555.50
165.00	555.50	555.50	555.50	555.50	555.50
170.00	555.50	555.50	555.50	555.50	555.50
175.00	555.50	555.50	555.50	555.50	555.50
180.00	555.50	555.50	555.50	555.50	555.50
185.00	555.50	555.50	555.50	555.50	555.50
190.00	555.50	555.50	555.50	555.50	555.50
195.00	555.50	555.50	555.50	555.50	555.50
200.00	555.50	555.50	555.50	555.50	555.50
205.00	555.50	555.50	555.50	555.50	555.50
210.00	555.50	555.50	555.50	555.50	555.50
215.00	555.50	555.50	555.50	555.50	555.50
220.00	555.50	555.50	555.50	555.50	555.50

Type.... Time-Elev  
Name.... WET BASIN    OUT    Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025    Tag: 025

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Event: 025 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
225.00	555.50	555.50	555.50	555.50	555.50
230.00	555.50	555.50	555.50	555.50	

Type.... Time-Elev  
 Name.... WET BASIN      OUT      Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100      Tag: 100

Page 5.17  
 Event: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	555.50	555.51	555.53	555.55	555.56
5.00	555.58	555.60	555.61	555.63	555.64
10.00	555.66	555.67	555.68	555.70	555.71
15.00	555.72	555.73	555.74	555.75	555.76
20.00	555.77	555.78	555.79	555.80	555.80
25.00	555.81	555.82	555.82	555.83	555.83
30.00	555.84	555.82	555.81	555.80	555.79
35.00	555.78	555.77	555.76	555.75	555.74
40.00	555.73	555.72	555.72	555.71	555.70
45.00	555.69	555.69	555.68	555.68	555.67
50.00	555.66	555.66	555.65	555.65	555.64
55.00	555.64	555.63	555.63	555.62	555.62
60.00	555.61	555.61	555.61	555.60	555.60
65.00	555.60	555.59	555.59	555.59	555.58
70.00	555.58	555.58	555.58	555.57	555.57
75.00	555.57	555.57	555.56	555.56	555.56
80.00	555.56	555.55	555.55	555.55	555.55
85.00	555.55	555.55	555.54	555.54	555.54
90.00	555.54	555.54	555.54	555.54	555.53
95.00	555.53	555.53	555.53	555.53	555.53
100.00	555.53	555.53	555.53	555.53	555.52
105.00	555.52	555.52	555.52	555.52	555.52
110.00	555.52	555.52	555.52	555.52	555.52
115.00	555.52	555.52	555.52	555.51	555.51
120.00	555.51	555.51	555.51	555.51	555.51
125.00	555.51	555.51	555.51	555.51	555.51
130.00	555.51	555.51	555.51	555.51	555.51
135.00	555.51	555.51	555.51	555.51	555.51
140.00	555.51	555.51	555.51	555.51	555.51
145.00	555.51	555.51	555.51	555.51	555.51
150.00	555.50	555.50	555.50	555.50	555.50
155.00	555.50	555.50	555.50	555.50	555.50
160.00	555.50	555.50	555.50	555.50	555.50
165.00	555.50	555.50	555.50	555.50	555.50
170.00	555.50	555.50	555.50	555.50	555.50
175.00	555.50	555.50	555.50	555.50	555.50
180.00	555.50	555.50	555.50	555.50	555.50
185.00	555.50	555.50	555.50	555.50	555.50
190.00	555.50	555.50	555.50	555.50	555.50
195.00	555.50	555.50	555.50	555.50	555.50
200.00	555.50	555.50	555.50	555.50	555.50
205.00	555.50	555.50	555.50	555.50	555.50
210.00	555.50	555.50	555.50	555.50	555.50
215.00	555.50	555.50	555.50	555.50	555.50
220.00	555.50	555.50	555.50	555.50	555.50

Type.... Time-Elev  
Name.... WET BASIN    OUT    Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100    Tag: 100

Page 5.18  
Event: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
-----					
225.00	555.50	555.50	555.50	555.50	555.50
230.00	555.50	555.50	555.50	555.50	555.50
235.00	555.50	555.50	555.50	555.50	

Type.... Time vs. Volume  
 Name.... SOUTH BASIN OUT Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 6.01  
 Event: 002 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	0	1304	2011	2688
5.00	3338	3961	4557	5129	5678
10.00	6203	6705	7186	7641	8052
15.00	8444	8818	9175	9515	9839
20.00	10149	10443	10724	10993	11248
25.00	11492	11724	11946	12157	12359
30.00	12550	12036	10862	9768	8744
35.00	7788	6847	5948	5104	4311
40.00	3567	2866	2207	1586	438
45.00	1	0	0	0	0
50.00	0	0	0	0	0
55.00	0	0	0	0	0
60.00	0	0	0	0	0
65.00	0	0	0	0	0
70.00	0	0	0	0	0
75.00	0	0	0	0	0
80.00	0	0	0	0	0
85.00	0	0	0	0	0
90.00	0	0	0	0	0
95.00	0	0	0	0	0
100.00	0	0	0	0	0
105.00	0	0	0	0	0
110.00	0	0	0	0	0
115.00	0	0	0	0	0
120.00	0	0	0	0	0
125.00	0	0	0	0	0
130.00	0	0	0	0	0
135.00	0	0	0	0	0
140.00	0	0	0	0	0
145.00	0	0	0	0	0
150.00	0	0	0	0	0
155.00	0	0	0	0	0
160.00	0	0	0	0	0
165.00	0	0	0	0	0
170.00	0	0	0	0	0
175.00	0	0	0	0	0
180.00	0	0	0	0	0
185.00	0	0	0	0	0
190.00	0	0	0	0	0
195.00	0	0	0	0	0
200.00	0	0	0	0	0
205.00	0	0	0	0	0
210.00	0	0	0	0	0

Type.... Time vs. Volume  
 Name.... SOUTH BASIN OUT Tag: 015  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 6.02  
 Event: 015 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	93	2292	3677	5014
5.00	6303	7544	8660	9729	10753
10.00	11733	12671	13568	14417	15184
15.00	15916	16612	17276	17909	18511
20.00	19084	19630	20150	20644	21116
25.00	21560	21960	22340	22702	23046
30.00	23372	22649	20920	19246	17690
35.00	16243	14896	13598	12349	11182
40.00	10092	9073	8118	7202	6305
45.00	5461	4669	3922	3220	2558
50.00	1934	1346	105	0	0
55.00	0	0	0	0	0
60.00	0	0	0	0	0
65.00	0	0	0	0	0
70.00	0	0	0	0	0
75.00	0	0	0	0	0
80.00	0	0	0	0	0
85.00	0	0	0	0	0
90.00	0	0	0	0	0
95.00	0	0	0	0	0
100.00	0	0	0	0	0
105.00	0	0	0	0	0
110.00	0	0	0	0	0
115.00	0	0	0	0	0
120.00	0	0	0	0	0
125.00	0	0	0	0	0
130.00	0	0	0	0	0
135.00	0	0	0	0	0
140.00	0	0	0	0	0
145.00	0	0	0	0	0
150.00	0	0	0	0	0
155.00	0	0	0	0	0
160.00	0	0	0	0	0
165.00	0	0	0	0	0
170.00	0	0	0	0	0
175.00	0	0	0	0	0
180.00	0	0	0	0	0
185.00	0	0	0	0	0
190.00	0	0	0	0	0
195.00	0	0	0	0	0
200.00	0	0	0	0	0
205.00	0	0	0	0	0
210.00	0	0	0	0	0
215.00	0	0	0	0	0
220.00	0	0	0	0	0



Type.... Time vs. Volume  
Name.... SOUTH BASIN OUT Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015 Tag: 015

Page 6.03  
Event: 015 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.			
225.00	0	0	0	0

Type.... Time vs. Volume  
 Name.... SOUTH BASIN OUT Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 6.04  
 Event: 025 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	469	2964	4818	6615
5.00	8300	9866	11371	12819	14208
10.00	15461	16654	17795	18884	19925
15.00	20918	21842	22690	23496	24264
20.00	24994	25689	26350	26978	27576
25.00	28144	28687	29203	29680	30136
30.00	30572	29687	27514	25479	23593
35.00	21844	20138	18531	17039	15648
40.00	14353	13069	11866	10741	9689
45.00	8704	7782	6874	6005	5187
50.00	4419	3693	3011	2368	1762
55.00	1047	24	0	0	0
60.00	0	0	0	0	0
65.00	0	0	0	0	0
70.00	0	0	0	0	0
75.00	0	0	0	0	0
80.00	0	0	0	0	0
85.00	0	0	0	0	0
90.00	0	0	0	0	0
95.00	0	0	0	0	0
100.00	0	0	0	0	0
105.00	0	0	0	0	0
110.00	0	0	0	0	0
115.00	0	0	0	0	0
120.00	0	0	0	0	0
125.00	0	0	0	0	0
130.00	0	0	0	0	0
135.00	0	0	0	0	0
140.00	0	0	0	0	0
145.00	0	0	0	0	0
150.00	0	0	0	0	0
155.00	0	0	0	0	0
160.00	0	0	0	0	0
165.00	0	0	0	0	0
170.00	0	0	0	0	0
175.00	0	0	0	0	0
180.00	0	0	0	0	0
185.00	0	0	0	0	0
190.00	0	0	0	0	0
195.00	0	0	0	0	0
200.00	0	0	0	0	0
205.00	0	0	0	0	0
210.00	0	0	0	0	0
215.00	0	0	0	0	0
220.00	0	0	0	0	0

Type.... Time vs. Volume  
Name.... SOUTH BASIN OUT Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025 Tag: 025

Page 6.05  
Event: 025 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
225.00	0	0	0	0	0
230.00	0	0	0	0	0

Type.... Time vs. Volume  
 Name.... SOUTH BASIN OUT Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 6.06  
 Event: 100 yr

TIME vs. VOLUME (cu.ft)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	0	1367	3991	6554	8953
5.00	11217	13407	15444	17351	19183
10.00	20942	22560	24074	25523	26906
15.00	28227	29475	30630	31714	32692
20.00	33582	34387	35117	35781	36382
25.00	36929	37415	37825	38173	38471
30.00	38726	37405	34593	32124	29872
35.00	27725	25703	23822	22074	20379
40.00	18769	17271	15877	14578	13304
45.00	12096	10966	9910	8920	7994
50.00	7096	6222	5400	4626	3897
55.00	3210	2563	1951	1375	145
60.00	0	0	0	0	0
65.00	0	0	0	0	0
70.00	0	0	0	0	0
75.00	0	0	0	0	0
80.00	0	0	0	0	0
85.00	0	0	0	0	0
90.00	0	0	0	0	0
95.00	0	0	0	0	0
100.00	0	0	0	0	0
105.00	0	0	0	0	0
110.00	0	0	0	0	0
115.00	0	0	0	0	0
120.00	0	0	0	0	0
125.00	0	0	0	0	0
130.00	0	0	0	0	0
135.00	0	0	0	0	0
140.00	0	0	0	0	0
145.00	0	0	0	0	0
150.00	0	0	0	0	0
155.00	0	0	0	0	0
160.00	0	0	0	0	0
165.00	0	0	0	0	0
170.00	0	0	0	0	0
175.00	0	0	0	0	0
180.00	0	0	0	0	0
185.00	0	0	0	0	0
190.00	0	0	0	0	0
195.00	0	0	0	0	0
200.00	0	0	0	0	0
205.00	0	0	0	0	0
210.00	0	0	0	0	0
215.00	0	0	0	0	0
220.00	0	0	0	0	0

Type.... Time vs. Volume  
Name.... SOUTH BASIN OUT Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100 Tag: 100

Page 6.07  
Event: 100 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
225.00	0	0	0	0	0
230.00	0	0	0	0	0
235.00	0	0	0	0	0

Type.... Time vs. Volume  
 Name.... SW BASIN      OUT      Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002      Tag: 002

Page 6.08  
 Event: 002 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	81	364	970	1995
5.00	2357	2735	3147	3595	4080
10.00	4603	5163	5753	6341	6928
15.00	7511	7716	7543	7371	7200
20.00	7031	6864	6697	6532	6369
25.00	6207	6046	5888	5729	5572
30.00	5417	5263	5113	4967	4824
35.00	4685	4550	4419	4290	4166
40.00	4045	3927	3812	3701	3591
45.00	3486	3383	3283	3185	3091
50.00	2999	2909	2822	2737	2654
55.00	2574	2496	2420	2346	2275
60.00	2205	2137	2071	1968	1738
65.00	1533	1348	1183	1035	903
70.00	786	682	590	508	436
75.00	372	317	268	226	189
80.00	157	130	106	86	69
85.00	55	43	33	0	0

Type.... Time vs. Volume  
 Name.... SW BASIN      OUT      Tag: 015  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015      Tag: 015

Page 6.09  
 Event: 015 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	149	1019	2289	2964
5.00	3752	4663	5694	6750	7807
10.00	8863	9895	10773	11650	12525
15.00	13398	13739	13548	13358	13170
20.00	12984	12798	12615	12433	12252
25.00	12073	11895	11719	11544	11371
30.00	11199	11027	10858	10690	10524
35.00	10358	10194	10032	9870	9697
40.00	9507	9317	9130	8946	8761
45.00	8579	8398	8219	8040	7865
50.00	7690	7517	7345	7174	7006
55.00	6839	6672	6507	6344	6183
60.00	6022	5863	5706	5549	5394
65.00	5241	5090	4944	4803	4664
70.00	4530	4399	4272	4148	4027
75.00	3910	3795	3684	3576	3471
80.00	3368	3268	3171	3077	2985
85.00	2896	2809	2724	2642	2562
90.00	2484	2409	2336	2264	2195
95.00	2127	2061	1932	1706	1504
100.00	1322	1159	1014	885	770
105.00	667	577	496	426	364
110.00	309	261	220	184	152
115.00	126	103	83	67	53
120.00	42	32	0	0	

Type.... Time vs. Volume  
 Name.... SW BASIN OUT Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 6.10  
 Event: 025 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	205	1659	2707	3671
5.00	4829	6155	7498	8843	10121
10.00	11243	12365	13487	14609	15730
15.00	16852	17302	17081	16862	16645
20.00	16430	16217	16005	15795	15588
25.00	15381	15176	14973	14772	14572
30.00	14375	14178	13983	13789	13598
35.00	13408	13220	13032	12847	12663
40.00	12480	12299	12120	11942	11765
45.00	11589	11415	11243	11072	10903
50.00	10734	10567	10402	10238	10074
55.00	9912	9746	9556	9367	9180
60.00	8993	8809	8626	8445	8266
65.00	8087	7910	7736	7562	7389
70.00	7219	7049	6882	6715	6551
75.00	6387	6225	6064	5905	5746
80.00	5589	5435	5280	5129	4982
85.00	4840	4700	4565	4433	4304
90.00	4180	4058	3940	3824	3713
95.00	3604	3497	3394	3294	3196
100.00	3101	3009	2919	2831	2746
105.00	2663	2583	2505	2429	2354
110.00	2282	2213	2144	2078	1995
115.00	1762	1554	1367	1200	1051
120.00	917	798	693	599	516
125.00	443	379	322	273	230
130.00	193	160	132	108	88
135.00	71	56	44	34	0
140.00	0				



Type.... Time vs. Volume  
 Name.... SW BASIN      OUT      Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100      Tag: 100

Page 6.11  
 Event: 100 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	0	311	2255	3419	4915
5.00	6667	8435	10139	11624	13110
10.00	14601	16093	17589	19087	20534
15.00	21983	22552	22283	22027	21776
20.00	21526	21277	21031	20788	20546
25.00	20306	20069	19834	19601	19369
30.00	19140	18905	18672	18440	18210
35.00	17981	17755	17531	17309	17088
40.00	16869	16652	16437	16223	16012
45.00	15802	15594	15388	15182	14979
50.00	14778	14578	14380	14184	13989
55.00	13795	13604	13414	13225	13038
60.00	12852	12669	12486	12305	12125
65.00	11947	11770	11595	11421	11248
70.00	11077	10907	10739	10573	10406
75.00	10242	10079	9918	9753	9562
80.00	9373	9185	8999	8815	8632
85.00	8451	8271	8093	7916	7741
90.00	7567	7395	7224	7055	6888
95.00	6721	6556	6392	6230	6069
100.00	5909	5751	5595	5439	5284
105.00	5134	4986	4844	4705	4569
110.00	4437	4309	4183	4062	3944
115.00	3828	3716	3607	3501	3398
120.00	3297	3199	3104	3011	2922
125.00	2834	2749	2666	2585	2507
130.00	2431	2357	2285	2214	2146
135.00	2080	2002	1769	1560	1373
140.00	1205	1055	921	802	696
145.00	602	519	445	381	324
150.00	274	231	194	161	133
155.00	109	89	71	57	45
160.00	35	1	0		

Type.... Time vs. Volume  
 Name.... WET BASIN OUT Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 6.12  
 Event: 002 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
.00	132740	132825	132990	133151	133307
5.00	133457	133602	133742	133877	134008
10.00	134135	134257	134374	134489	134599
15.00	134705	134808	134907	135003	135095
20.00	135184	135270	135354	135434	135512
25.00	135587	135660	135729	135797	135862
30.00	135925	135814	135708	135604	135504
35.00	135407	135315	135226	135140	135056
40.00	134976	134898	134823	134750	134681
45.00	134613	134548	134484	134425	134366
50.00	134310	134255	134202	134152	134103
55.00	134056	134010	133966	133924	133882
60.00	133842	133804	133768	133731	133697
65.00	133664	133633	133602	133571	133543
70.00	133515	133488	133461	133438	133412
75.00	133390	133367	133345	133324	133304
80.00	133285	133265	133247	133230	133213
85.00	133196	133181	133165	133150	133136
90.00	133123	133109	133097	133084	133073
95.00	133060	133049	133039	133028	133018
100.00	133008	133000	132990	132982	132973
105.00	132965	132958	132950	132943	132936
110.00	132929	132923	132916	132910	132905
115.00	132898	132894	132888	132882	132878
120.00	132873	132868	132864	132860	132856
125.00	132852	132847	132843	132840	132836
130.00	132833	132831	132826	132824	132821
135.00	132818	132815	132812	132811	132808
140.00	132805	132803	132801	132798	132797
145.00	132794	132793	132791	132790	132787
150.00	132786	132784	132783	132782	132780
155.00	132779	132777	132776	132775	132773
160.00	132772	132770	132770	132769	132768
165.00	132768	132766	132765	132765	132763
170.00	132762	132762	132761	132761	132759
175.00	132759	132758	132758	132756	132756
180.00	132756	132755	132755	132754	132754
185.00	132754	132752	132752	132752	132751
190.00	132751	132751	132751	132749	132749
195.00	132749	132749	132748	132748	132748
200.00	132748	132747	132747	132747	132747
205.00	132747	132747	132745	132745	132745
210.00	132745	132745	132745	132745	132745

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
.00	132740	132878	133149	133411	133665
5.00	133910	134146	134376	134597	134810
10.00	135017	135218	135410	135596	135776
15.00	135950	136118	136280	136438	136589
20.00	136736	136877	137014	137146	137273
25.00	137396	137515	137631	137741	137848
30.00	137953	137769	137593	137425	137260
35.00	137103	136951	136804	136661	136525
40.00	136392	136266	136142	136024	135909
45.00	135799	135692	135590	135491	135395
50.00	135303	135213	135127	135045	134964
55.00	134887	134812	134740	134671	134604
60.00	134539	134476	134417	134357	134303
65.00	134248	134195	134145	134095	134049
70.00	134004	133960	133918	133876	133837
75.00	133799	133762	133727	133693	133659
80.00	133629	133598	133567	133539	133511
85.00	133484	133459	133433	133409	133386
90.00	133365	133342	133321	133301	133282
95.00	133264	133245	133227	133210	133195
100.00	133178	133164	133149	133135	133121
105.00	133108	133095	133083	133070	133059
110.00	133048	133038	133027	133017	133007
115.00	132999	132989	132980	132972	132965
120.00	132957	132950	132941	132934	132929
125.00	132922	132915	132909	132903	132898
130.00	132892	132887	132882	132877	132873
135.00	132867	132863	132859	132854	132850
140.00	132847	132843	132839	132836	132833
145.00	132829	132826	132824	132821	132818
150.00	132815	132812	132810	132808	132805
155.00	132803	132801	132798	132797	132794
160.00	132793	132791	132789	132787	132786
165.00	132784	132783	132782	132780	132779
170.00	132777	132776	132775	132773	132772
175.00	132770	132770	132769	132768	132766
180.00	132766	132765	132763	132763	132762
185.00	132762	132761	132761	132759	132759
190.00	132758	132758	132756	132756	132755
195.00	132755	132755	132754	132754	132754
200.00	132752	132752	132752	132751	132751
205.00	132751	132751	132749	132749	132749
210.00	132749	132748	132748	132748	132748
215.00	132747	132747	132747	132747	132747
220.00	132747	132745	132745	132745	132745

Type.... Time vs. Volume  
Name.... WET BASIN OUT Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015 Tag: 015

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.		
225.00	132745	132745	132745

Type.... Time vs. Volume  
 Name.... WET BASIN OUT Tag: 025  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

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 Event: 025 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
.00	132740	132910	133245	133570	133882
5.00	134186	134477	134761	135034	135298
10.00	135555	135801	136040	136270	136493
15.00	136708	136917	137118	137313	137501
20.00	137682	137857	138027	138191	138348
25.00	138502	138644	138779	138906	139024
30.00	139136	138905	138687	138481	138280
35.00	138085	137898	137718	137543	137376
40.00	137213	137058	136907	136761	136622
45.00	136486	136355	136229	136107	135990
50.00	135877	135767	135662	135560	135463
55.00	135368	135276	135188	135103	135021
60.00	134942	134864	134791	134720	134651
65.00	134585	134521	134459	134398	134342
70.00	134286	134232	134180	134131	134083
75.00	134035	133990	133948	133905	133865
80.00	133825	133789	133752	133717	133683
85.00	133650	133619	133588	133558	133530
90.00	133504	133477	133452	133426	133402
95.00	133380	133358	133336	133315	133296
100.00	133276	133258	133240	133223	133206
105.00	133189	133174	133158	133144	133130
110.00	133116	133104	133091	133078	133067
115.00	133056	133045	133035	133024	133014
120.00	133004	132996	132987	132978	132971
125.00	132962	132954	132947	132940	132933
130.00	132926	132920	132913	132908	132902
135.00	132896	132891	132885	132881	132875
140.00	132871	132866	132861	132857	132853
145.00	132850	132846	132842	132839	132835
150.00	132832	132829	132825	132822	132819
155.00	132817	132814	132812	132810	132807
160.00	132804	132803	132800	132798	132796
165.00	132794	132793	132790	132789	132787
170.00	132786	132783	132782	132780	132779
175.00	132777	132776	132775	132775	132773
180.00	132772	132770	132769	132769	132768
185.00	132766	132766	132765	132763	132763
190.00	132762	132762	132761	132761	132759
195.00	132759	132758	132758	132756	132756
200.00	132755	132755	132755	132754	132754
205.00	132754	132752	132752	132752	132751
210.00	132751	132751	132749	132749	132749
215.00	132749	132748	132748	132748	132748
220.00	132748	132747	132747	132747	132747

Type.... Time vs. Volume  
Name.... WET BASIN    OUT    Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025    Tag: 025

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Event: 025 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
225.00	132747	132747	132745	132745	132745
230.00	132745	132745	132745	132745	132745

Type.... Time vs. Volume  
 Name.... WET BASIN OUT Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

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 Event: 100 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
.00	132740	132958	133386	133800	134201
5.00	134589	134964	135327	135678	136017
10.00	136344	136661	136968	137265	137551
15.00	137828	138095	138354	138601	138833
20.00	139050	139253	139445	139625	139795
25.00	139954	140103	140243	140377	140501
30.00	140617	140294	139990	139706	139439
35.00	139188	138952	138732	138524	138321
40.00	138126	137938	137757	137581	137412
45.00	137248	137091	136939	136793	136651
50.00	136515	136382	136256	136134	136014
55.00	135901	135791	135685	135582	135484
60.00	135387	135295	135206	135121	135038
65.00	134959	134881	134806	134734	134665
70.00	134599	134534	134472	134411	134353
75.00	134298	134243	134191	134141	134093
80.00	134045	134000	133956	133914	133873
85.00	133834	133796	133759	133724	133690
90.00	133657	133626	133595	133565	133536
95.00	133509	133482	133456	133432	133408
100.00	133384	133362	133341	133320	133300
105.00	133280	133262	133244	133226	133209
110.00	133193	133177	133163	133147	133133
115.00	133119	133107	133094	133081	133070
120.00	133059	133048	133036	133027	133017
125.00	133007	132997	132989	132980	132972
130.00	132964	132957	132948	132941	132934
135.00	132927	132922	132915	132909	132903
140.00	132898	132892	132887	132881	132877
145.00	132871	132867	132863	132859	132854
150.00	132850	132846	132843	132839	132836
155.00	132832	132829	132826	132824	132821
160.00	132818	132815	132812	132810	132807
165.00	132805	132803	132801	132798	132797
170.00	132794	132793	132791	132789	132787
175.00	132786	132784	132783	132782	132780
180.00	132779	132777	132776	132775	132773
185.00	132772	132770	132770	132769	132768
190.00	132766	132766	132765	132763	132763
195.00	132762	132762	132761	132761	132759
200.00	132759	132758	132758	132756	132756
205.00	132755	132755	132755	132754	132754
210.00	132754	132752	132752	132752	132751
215.00	132751	132751	132751	132749	132749
220.00	132749	132749	132748	132748	132748

Type.... Time vs. Volume  
 Name.... WET BASIN OUT Tag: 100  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

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 Event: 100 yr

TIME vs. VOLUME (cu.ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
225.00	132748	132747	132747	132747	132747
230.00	132747	132747	132745	132745	132745
235.00	132745	132745	132745	132745	132745



File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sq(A1*A2) (sq.ft)	Volume (cu.ft)	Volume Sum (cu.ft)
540.50	-----	0	0	0	0
541.70	-----	1	1	0	0
542.00	-----	12195	12306	1231	1231
544.00	-----	15816	41899	27933	29164
546.00	-----	19719	53195	35463	64627
548.00	-----	23726	65075	43383	108010

POND VOLUME EQUATIONS

\* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment  
 Area1,Area2 = Areas computed for EL1, EL2, respectively  
 Volume = Incremental volume between EL1 and EL2

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume (cu.ft)	Volume Sum (cu.ft)
546.25	-----	0	0	0	0
547.10	-----	1	1	0	0
548.00	-----	17590	17724	5317	5318
550.00	-----	21867	59069	39380	44697
552.00	-----	26488	72422	48281	92978
554.00	-----	31141	86349	57566	150545

POND VOLUME EQUATIONS

\* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment  
 Area1,Area2 = Areas computed for EL1, EL2, respectively  
 Volume = Incremental volume between EL1 and EL2

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume (cu.ft)	Volume Sum (cu.ft)
544.00	-----	2212	0	0	0
546.00	-----	5239	10855	7237	7237
548.00	-----	8180	19965	13310	20547
550.00	-----	11320	29123	19415	39962
552.00	-----	15222	39669	26446	66408
554.00	-----	19450	51879	34586	100994
556.00	-----	24147	65269	43512	144506
557.00	-----	26595	76083	25361	169867

POND VOLUME EQUATIONS

\* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment  
 Area1, Area2 = Areas computed for EL1, EL2, respectively  
 Volume = Incremental volume between EL1 and EL2

Type.... Outlet Input Data  
Name.... SOUTH BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 540.50 ft  
Increment = .50 ft  
Max. Elev.= 548.00 ft

\*\*\*\*\*  
OUTLET CONNECTIVITY  
\*\*\*\*\*

---> Forward Flow Only (UpStream to DnStream)  
<--- Reverse Flow Only (DnStream to UpStream)  
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
-----	-----		-----	-----	-----
Weir-Rectangular	4	--->	TW	544.140	548.000
Weir-Rectangular	2	--->	TW	540.500	548.000
TW SETUP, DS Channel					

Type.... Outlet Input Data  
Name.... SOUTH BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 4  
Structure Type = Weir-Rectangular

-----  
# of Openings = 1  
Crest Elev. = 544.14 ft  
Weir Length = 8.50 ft

Weir Table File: BRDWEIR.WCT  
Weir Table ID: 6inBRDCRESTWEIR  
WEIR COEFFICIENT TABLE

Depth, ft	Weir C
-----	-----
.20	2.8000
.40	2.9200
.60	3.0800
.80	3.3000
1.00	3.3200
1.20	3.3200
1.40	3.3200
1.60	3.3200
1.80	3.3200
2.00	3.3200
2.50	3.3200
3.00	3.3200
3.50	3.3200
4.00	3.3200
4.50	3.3200
5.00	3.3200
5.50	3.3200

Weir TW effects (Use adjustment equation)

Type.... Outlet Input Data  
Name.... SOUTH BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 2  
Structure Type = Weir-Rectangular  
-----  
# of Openings = 1  
Crest Elev. = 540.50 ft  
Weir Length = 1.83 ft

Weir Table File: BRDWEIR.WCT  
Weir Table ID: 6inBRDCRESTWEIR  
WEIR COEFFICIENT TABLE

Depth, ft	Weir C
.20	2.8000
.40	2.9200
.60	3.0800
.80	3.3000
1.00	3.3200
1.20	3.3200
1.40	3.3200
1.60	3.3200
1.80	3.3200
2.00	3.3200
2.50	3.3200
3.00	3.3200
3.50	3.3200
4.00	3.3200
4.50	3.3200
5.00	3.3200
5.50	3.3200

Weir TW effects (Use adjustment equation)

Structure ID = TW  
Structure Type = TW SETUP, DS Channel  
-----

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...  
Maximum Iterations= 30  
Min. TW tolerance = .01 ft  
Max. TW tolerance = .01 ft  
Min. HW tolerance = .01 ft  
Max. HW tolerance = .01 ft  
Min. Q tolerance = .10 cfs  
Max. Q tolerance = .10 cfs

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 4 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
WS Elev.	Q	TW Elev	Converge	Computation Messages
ft	cfs	ft	+/-ft	
540.50	.00	Free Outfall		HW & TW below Inv.El.=544.140
541.00	.00	Free Outfall		HW & TW below Inv.El.=544.140
541.50	.00	Free Outfall		HW & TW below Inv.El.=544.140
542.00	.00	Free Outfall		HW & TW below Inv.El.=544.140
542.50	.00	Free Outfall		HW & TW below Inv.El.=544.140
543.00	.00	Free Outfall		HW & TW below Inv.El.=544.140
543.50	.00	Free Outfall		HW & TW below Inv.El.=544.140
544.00	.00	Free Outfall		HW & TW below Inv.El.=544.140
544.14	.00	Free Outfall		C=2.800; H=.00; Htw=.00; Qfree=.00;
544.50	5.32	Free Outfall		C=2.896; H=.36; Htw=.00; Qfree=5.32;
545.00	22.41	Free Outfall		C=3.306; H=.86; Htw=.00; Qfree=22.41;
545.50	44.76	Free Outfall		C=3.320; H=1.36; Htw=.00; Qfree=44.76;
546.00	71.58	Free Outfall		C=3.320; H=1.86; Htw=.00; Qfree=71.58;
546.50	102.31	Free Outfall		C=3.320; H=2.36; Htw=.00; Qfree=102.31;
547.00	136.49	Free Outfall		C=3.320; H=2.86; Htw=.00; Qfree=136.49;
547.50	173.81	Free Outfall		C=3.320; H=3.36; Htw=.00; Qfree=173.81;
548.00	214.01	Free Outfall		C=3.320; H=3.86; Htw=.00; Qfree=214.01;

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 2 (Weir-Rectangular)  
 -----  
 Upstream ID = (Pond Water Surface)  
 DNstream ID = TW (Pond Outfall)

WS Elev, Device Q	Tail Water	Notes
WS Elev. ft	Q cfs	TW Elev Converge ft +/-ft
-----		
Computation Messages		
-----		
540.50	.00	Free Outfall C=2.800; H=.00; Htw=.00; Qfree=.00;
541.00	1.94	Free Outfall C=3.000; H=.50; Htw=.00; Qfree=1.94;
541.50	6.09	Free Outfall C=3.320; H=1.00; Htw=.00; Qfree=6.09;
542.00	11.18	Free Outfall C=3.320; H=1.50; Htw=.00; Qfree=11.18;
542.50	17.21	Free Outfall C=3.320; H=2.00; Htw=.00; Qfree=17.21;
543.00	24.06	Free Outfall C=3.320; H=2.50; Htw=.00; Qfree=24.06;
543.50	31.62	Free Outfall C=3.320; H=3.00; Htw=.00; Qfree=31.62;
544.00	39.85	Free Outfall C=3.320; H=3.50; Htw=.00; Qfree=39.85;
544.14	42.26	Free Outfall C=3.320; H=3.64; Htw=.00; Qfree=42.26;
544.50	48.68	Free Outfall C=3.320; H=4.00; Htw=.00; Qfree=48.68;
545.00	58.09	Free Outfall C=3.320; H=4.50; Htw=.00; Qfree=58.09;
545.50	68.04	Free Outfall C=3.320; H=5.00; Htw=.00; Qfree=68.04;
546.00	78.50	Free Outfall C=3.320; H=5.50; Htw=.00; Qfree=78.50;
546.50	89.44	Free Outfall C=3.320; H=6.00; Htw=.00; Qfree=89.44;
547.00	100.85	Free Outfall C=3.320; H=6.50; Htw=.00; Qfree=100.85;
547.50	112.71	Free Outfall C=3.320; H=7.00; Htw=.00; Qfree=112.71;
548.00	124.99	Free Outfall C=3.320; H=7.50; Htw=.00; Qfree=124.99;



Type.... Composite Rating Curve  
Name.... SOUTH BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

\*\*\*\*\* COMPOSITE OUTFLOW SUMMARY \*\*\*\*\*

WS Elev, Total Q		Converge		Notes
Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
540.50	.00	Free Outfall	2	
541.00	1.94	Free Outfall	2	
541.50	6.09	Free Outfall	2	
542.00	11.18	Free Outfall	2	
542.50	17.21	Free Outfall	2	
543.00	24.06	Free Outfall	2	
543.50	31.62	Free Outfall	2	
544.00	39.85	Free Outfall	2	
544.14	42.26	Free Outfall	4 +2	
544.50	54.00	Free Outfall	4 +2	
545.00	80.50	Free Outfall	4 +2	
545.50	112.80	Free Outfall	4 +2	
546.00	150.08	Free Outfall	4 +2	
546.50	191.75	Free Outfall	4 +2	
547.00	237.34	Free Outfall	4 +2	
547.50	286.51	Free Outfall	4 +2	
548.00	339.01	Free Outfall	4 +2	

Type.... Outlet Input Data  
Name.... SW BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 546.25 ft  
Increment = .50 ft  
Max. Elev.= 554.00 ft

\*\*\*\*\*  
OUTLET CONNECTIVITY  
\*\*\*\*\*

---> Forward Flow Only (UpStream to DnStream)  
<--- Reverse Flow Only (DnStream to UpStream)  
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
-----	-----		-----	-----	-----
Weir-Rectangular	5	--->	TW	548.900	554.000
Weir-Rectangular	3	--->	TW	546.250	554.000
TW SETUP, DS Channel					

Type.... Outlet Input Data  
Name.... SW BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 5  
Structure Type = Weir-Rectangular

-----  
# of Openings = 1  
Crest Elev. = 548.90 ft  
Weir Length = 8.50 ft

Weir Table File: BRDWEIR.WCT  
Weir Table ID: 6inBRDCRESTWEIR  
WEIR COEFFICIENT TABLE

Depth, ft	Weir C
-----	-----
.20	2.8000
.40	2.9200
.60	3.0800
.80	3.3000
1.00	3.3200
1.20	3.3200
1.40	3.3200
1.60	3.3200
1.80	3.3200
2.00	3.3200
2.50	3.3200
3.00	3.3200
3.50	3.3200
4.00	3.3200
4.50	3.3200
5.00	3.3200
5.50	3.3200

Weir TW effects (Use adjustment equation)

Type.... Outlet Input Data  
Name.... SW BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 3  
Structure Type = Weir-Rectangular  
-----  
# of Openings = 1  
Crest Elev. = 546.25 ft  
Weir Length = .29 ft

Weir Table File: BRDWEIR.WCT  
Weir Table ID: 6inBRDCRESTWEIR  
WEIR COEFFICIENT TABLE

Depth, ft	Weir C
.20	2.8000
.40	2.9200
.60	3.0800
.80	3.3000
1.00	3.3200
1.20	3.3200
1.40	3.3200
1.60	3.3200
1.80	3.3200
2.00	3.3200
2.50	3.3200
3.00	3.3200
3.50	3.3200
4.00	3.3200
4.50	3.3200
5.00	3.3200
5.50	3.3200

Weir TW effects (Use adjustment equation)

Structure ID = TW  
Structure Type = TW SETUP, DS Channel  
-----

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...  
Maximum Iterations= 30  
Min. TW tolerance = .01 ft  
Max. TW tolerance = .01 ft  
Min. HW tolerance = .01 ft  
Max. HW tolerance = .01 ft  
Min. Q tolerance = .10 cfs  
Max. Q tolerance = .10 cfs

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 5 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

WS Elev, Device Q		Tail Water		Notes
WS Elev. ft	Q cfs	TW Elev ft	Converge +/-ft	Computation Messages
546.25	.00	Free Outfall		HW & TW below Inv.El.=548.900
546.75	.00	Free Outfall		HW & TW below Inv.El.=548.900
547.25	.00	Free Outfall		HW & TW below Inv.El.=548.900
547.75	.00	Free Outfall		HW & TW below Inv.El.=548.900
548.25	.00	Free Outfall		HW & TW below Inv.El.=548.900
548.75	.00	Free Outfall		HW & TW below Inv.El.=548.900
548.90	.00	Free Outfall		C=2.800; H=.00; Htw=.00; Qfree=.00;
549.25	5.09	Free Outfall		C=2.890; H=.35; Htw=.00; Qfree=5.09;
549.75	22.01	Free Outfall		C=3.305; H=.85; Htw=.00; Qfree=22.01;
550.25	44.26	Free Outfall		C=3.320; H=1.35; Htw=.00; Qfree=44.26;
550.75	71.01	Free Outfall		C=3.320; H=1.85; Htw=.00; Qfree=71.01;
551.25	101.66	Free Outfall		C=3.320; H=2.35; Htw=.00; Qfree=101.66;
551.75	135.77	Free Outfall		C=3.320; H=2.85; Htw=.00; Qfree=135.77;
552.25	173.03	Free Outfall		C=3.320; H=3.35; Htw=.00; Qfree=173.03;
552.75	213.18	Free Outfall		C=3.320; H=3.85; Htw=.00; Qfree=213.18;
553.25	256.03	Free Outfall		C=3.320; H=4.35; Htw=.00; Qfree=256.03;
553.75	301.42	Free Outfall		C=3.320; H=4.85; Htw=.00; Qfree=301.42;
554.00	325.02	Free Outfall		C=3.320; H=5.10; Htw=.00; Qfree=325.02;

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 3 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water	Notes
WS Elev. ft	Q cfs	TW Elev Converge ft +/-ft	Computation Messages
546.25	.00	Free Outfall	C=2.800; H=.00; Htw=.00; Qfree=.00;
546.75	.31	Free Outfall	C=3.000; H=.50; Htw=.00; Qfree=.31;
547.25	.97	Free Outfall	C=3.320; H=1.00; Htw=.00; Qfree=.97;
547.75	1.78	Free Outfall	C=3.320; H=1.50; Htw=.00; Qfree=1.78;
548.25	2.74	Free Outfall	C=3.320; H=2.00; Htw=.00; Qfree=2.74;
548.75	3.83	Free Outfall	C=3.320; H=2.50; Htw=.00; Qfree=3.83;
548.90	4.18	Free Outfall	C=3.320; H=2.65; Htw=.00; Qfree=4.18;
549.25	5.04	Free Outfall	C=3.320; H=3.00; Htw=.00; Qfree=5.04;
549.75	6.35	Free Outfall	C=3.320; H=3.50; Htw=.00; Qfree=6.35;
550.25	7.76	Free Outfall	C=3.320; H=4.00; Htw=.00; Qfree=7.76;
550.75	9.25	Free Outfall	C=3.320; H=4.50; Htw=.00; Qfree=9.25;
551.25	10.84	Free Outfall	C=3.320; H=5.00; Htw=.00; Qfree=10.84;
551.75	12.50	Free Outfall	C=3.320; H=5.50; Htw=.00; Qfree=12.50;
552.25	14.25	Free Outfall	C=3.320; H=6.00; Htw=.00; Qfree=14.25;
552.75	16.07	Free Outfall	C=3.320; H=6.50; Htw=.00; Qfree=16.07;
553.25	17.95	Free Outfall	C=3.320; H=7.00; Htw=.00; Qfree=17.95;
553.75	19.91	Free Outfall	C=3.320; H=7.50; Htw=.00; Qfree=19.91;
554.00	20.92	Free Outfall	C=3.320; H=7.75; Htw=.00; Qfree=20.92;

Type.... Composite Rating Curve  
 Name.... SW BASIN OUT

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

\*\*\*\*\* COMPOSITE OUTFLOW SUMMARY \*\*\*\*

WS Elev, Total Q		Converge		Notes
Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
546.25	.00	Free Outfall	3	
546.75	.31	Free Outfall	3	
547.25	.97	Free Outfall	3	
547.75	1.78	Free Outfall	3	
548.25	2.74	Free Outfall	3	
548.75	3.83	Free Outfall	3	
548.90	4.18	Free Outfall	5 +3	
549.25	10.12	Free Outfall	5 +3	
549.75	28.36	Free Outfall	5 +3	
550.25	52.02	Free Outfall	5 +3	
550.75	80.26	Free Outfall	5 +3	
551.25	112.50	Free Outfall	5 +3	
551.75	148.28	Free Outfall	5 +3	
552.25	187.28	Free Outfall	5 +3	
552.75	229.24	Free Outfall	5 +3	
553.25	273.98	Free Outfall	5 +3	
553.75	321.33	Free Outfall	5 +3	
554.00	345.94	Free Outfall	5 +3	

Type.... Outlet Input Data  
Name.... WET BASIN OUTFLOW

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 544.00 ft  
Increment = .25 ft  
Max. Elev.= 557.00 ft

\*\*\*\*\*  
OUTLET CONNECTIVITY  
\*\*\*\*\*

---> Forward Flow Only (UpStream to DnStream)  
<--- Reverse Flow Only (DnStream to UpStream)  
<---> Forward and Reverse Both Allowed

Structure	No.	Outfall	E1, ft	E2, ft
Inlet Box TW SETUP, DS Channel	1	---> TW	555.500	557.000



File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 1  
Structure Type = Inlet Box  
-----  
# of Openings = 1  
Invert Elev. = 555.50 ft  
Orifice Area = 5.1600 sq.ft  
Orifice Coeff. = .600  
Weir Length = 9.08 ft  
Weir Coeff. = 3.000  
K, Submerged = .000  
K, Reverse = 1.000  
Kb, Barrel = .000000 (per ft of full flow)  
Barrel Length = .00 ft  
Mannings n = .0000

Structure ID = TW  
Structure Type = TW SETUP, DS Channel  
-----

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...  
Maximum Iterations= 30  
Min. TW tolerance = .01 ft  
Max. TW tolerance = .01 ft  
Min. HW tolerance = .01 ft  
Max. HW tolerance = .01 ft  
Min. Q tolerance = .10 cfs  
Max. Q tolerance = .10 cfs

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 1 (Inlet Box)

Upstream ID = (Pond Water Surface)  
 DNstream ID = TW (Pond Outfall)

WS Elev, Device Q		Tail Water		Notes
WS Elev. ft	Q cfs	TW Elev ft	Converge +/-ft	Computation Messages
544.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
544.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
544.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
544.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
545.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
545.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
545.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
545.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
546.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
546.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
546.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
546.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
547.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
547.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
547.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
547.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
548.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
548.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
548.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
548.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
549.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
549.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
549.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
549.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
550.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
550.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
550.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
550.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
551.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
551.25	.00	Free Outfall		HW & TW < Inv.El.=555.500
551.50	.00	Free Outfall		HW & TW < Inv.El.=555.500
551.75	.00	Free Outfall		HW & TW < Inv.El.=555.500
552.00	.00	Free Outfall		HW & TW < Inv.El.=555.500
552.25	.00	Free Outfall		HW & TW < Inv.El.=555.500

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 1 (Inlet Box)  
 -----  
 Upstream ID = (Pond Water Surface)  
 DNstream ID = TW (Pond Outfall)

WS Elev, Device Q	Tail Water	Notes
WS Elev. ft	Q cfs	TW Elev Converge ft +/-ft
Computation Messages		
552.50	.00	Free Outfall
552.75	.00	Free Outfall
553.00	.00	Free Outfall
553.25	.00	Free Outfall
553.50	.00	Free Outfall
553.75	.00	Free Outfall
554.00	.00	Free Outfall
554.25	.00	Free Outfall
554.50	.00	Free Outfall
554.75	.00	Free Outfall
555.00	.00	Free Outfall
555.25	.00	Free Outfall
555.50	.00	Free Outfall
555.75	3.41	Free Outfall
556.00	9.63	Free Outfall
556.25	17.70	Free Outfall
556.50	24.84	Free Outfall
		Orifice: H =1.00
556.75	27.77	Free Outfall
		Orifice: H =1.25
557.00	30.42	Free Outfall
		Orifice: H =1.50

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

\*\*\*\*\* COMPOSITE OUTFLOW SUMMARY \*\*\*\*\*

WS Elev, Total Q		Converge		Notes
Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
544.00	.00	Free Outfall		None contributing
544.25	.00	Free Outfall		None contributing
544.50	.00	Free Outfall		None contributing
544.75	.00	Free Outfall		None contributing
545.00	.00	Free Outfall		None contributing
545.25	.00	Free Outfall		None contributing
545.50	.00	Free Outfall		None contributing
545.75	.00	Free Outfall		None contributing
546.00	.00	Free Outfall		None contributing
546.25	.00	Free Outfall		None contributing
546.50	.00	Free Outfall		None contributing
546.75	.00	Free Outfall		None contributing
547.00	.00	Free Outfall		None contributing
547.25	.00	Free Outfall		None contributing
547.50	.00	Free Outfall		None contributing
547.75	.00	Free Outfall		None contributing
548.00	.00	Free Outfall		None contributing
548.25	.00	Free Outfall		None contributing
548.50	.00	Free Outfall		None contributing
548.75	.00	Free Outfall		None contributing
549.00	.00	Free Outfall		None contributing
549.25	.00	Free Outfall		None contributing
549.50	.00	Free Outfall		None contributing
549.75	.00	Free Outfall		None contributing
550.00	.00	Free Outfall		None contributing
550.25	.00	Free Outfall		None contributing
550.50	.00	Free Outfall		None contributing
550.75	.00	Free Outfall		None contributing
551.00	.00	Free Outfall		None contributing
551.25	.00	Free Outfall		None contributing
551.50	.00	Free Outfall		None contributing
551.75	.00	Free Outfall		None contributing
552.00	.00	Free Outfall		None contributing
552.25	.00	Free Outfall		None contributing
552.50	.00	Free Outfall		None contributing
552.75	.00	Free Outfall		None contributing
553.00	.00	Free Outfall		None contributing
553.25	.00	Free Outfall		None contributing

File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

\*\*\*\*\* COMPOSITE OUTFLOW SUMMARY \*\*\*\*\*

WS Elev, Total Q		Converge		Notes
Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
553.50	.00	Free Outfall		None contributing
553.75	.00	Free Outfall		None contributing
554.00	.00	Free Outfall		None contributing
554.25	.00	Free Outfall		None contributing
554.50	.00	Free Outfall		None contributing
554.75	.00	Free Outfall		None contributing
555.00	.00	Free Outfall		None contributing
555.25	.00	Free Outfall		None contributing
555.50	.00	Free Outfall		1
555.75	3.41	Free Outfall		1
556.00	9.63	Free Outfall		1
556.25	17.70	Free Outfall		1
556.50	24.84	Free Outfall		1
556.75	27.77	Free Outfall		1
557.00	30.42	Free Outfall		1

LEVEL POOL ROUTING DATA

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - SOUTH BASIN IN 002  
 Outflow HYG file = NONE STORED - SOUTH BASIN OUT 002

Pond Node Data = SOUTH BASIN  
 Pond Volume Data = SOUTH BASIN-SED  
 Pond Outlet Data = SOUTH BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 540.50 ft  
 Starting Volume = 0 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage cu.ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
540.50	.00	0	0	.00	.00	.00
541.00	1.94	0	0	.00	1.94	1.95
541.50	6.09	0	1	.00	6.09	6.09
542.00	11.18	1231	12195	.00	11.18	52.21
542.50	17.21	7543	13056	.00	17.21	268.63
543.00	24.06	14292	13947	.00	24.06	500.46
543.50	31.62	21494	14867	.00	31.62	748.09
544.00	39.85	29164	15816	.00	39.85	1011.97
544.14	42.26	31396	16075	.00	42.26	1088.80
544.50	54.00	37304	16751	.00	54.00	1297.48
545.00	80.50	45920	17714	.00	80.50	1611.15
545.50	112.80	55023	18703	.00	112.80	1946.88
546.00	150.08	64627	19719	.00	150.08	2304.31
546.50	191.75	74727	20686	.00	191.75	2682.65
547.00	237.34	85317	21676	.00	237.34	3081.23
547.50	286.51	96407	22690	.00	286.51	3500.08
548.00	339.01	108010	23726	.00	339.01	3939.34

Type.... Node: Pond Inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SOUTH BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file  HYG ID  HYG tag
-----
WET BASIN OUTFLW  WET BASIN IN  WET BASIN OUTFLW002
SOUTH BASIN INFL  SOUTH BASIN INFL  002 YEAR 002
=====
  
```

INFLOWS TO: SOUTH BASIN IN

```

-----
HYG file  HYG ID  HYG tag  Volume  Peak Time  Peak Flow
              cu.ft  min      cfs
-----
          WET BASIN OUTFLW  002  5146  30.00  1.88
          002 YEAR          002  41648  1.00  23.53
  
```

TOTAL FLOW INTO: SOUTH BASIN IN

```

-----
HYG file  HYG ID  HYG tag  Volume  Peak Time  Peak Flow
              cu.ft  min      cfs
-----
          SOUTH BASIN IN  002  47500  30.00  25.41
  
```

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 9.03  
 Event: 002 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SOUTH BASIN IN  
 HYG Tag = 002

-----  
 Peak Discharge = 25.41 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 47500 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
.00	.00	23.58	23.68	23.77	23.87
5.00	23.96	24.04	24.12	24.20	24.28
10.00	24.36	24.43	24.50	24.57	24.63
15.00	24.69	24.75	24.81	24.87	24.92
20.00	24.97	25.03	25.07	25.12	25.17
25.00	25.21	25.25	25.29	25.33	25.37
30.00	25.41	1.81	1.75	1.69	1.63
35.00	1.58	1.52	1.47	1.42	1.37
40.00	1.32	1.28	1.23	1.19	1.15
45.00	1.11	1.07	1.03	1.00	.96
50.00	.93	.90	.87	.84	.81
55.00	.78	.75	.73	.70	.68
60.00	.65	.63	.61	.59	.57
65.00	.55	.53	.51	.49	.48
70.00	.46	.44	.43	.41	.40
75.00	.39	.37	.36	.35	.34
80.00	.32	.31	.30	.29	.28
85.00	.27	.26	.25	.24	.24
90.00	.23	.22	.21	.20	.20
95.00	.19	.18	.18	.17	.17
100.00	.16	.15	.15	.14	.14
105.00	.13	.13	.13	.12	.12
110.00	.11	.11	.10	.10	.10
115.00	.09	.09	.09	.08	.08
120.00	.08	.08	.07	.07	.07
125.00	.07	.06	.06	.06	.06
130.00	.06	.05	.05	.05	.05
135.00	.05	.05	.04	.04	.04
140.00	.04	.04	.04	.04	.04
145.00	.03	.03	.03	.03	.03
150.00	.03	.03	.03	.02	.02
155.00	.02	.02	.02	.02	.02
160.00	.02	.02	.02	.02	.02



Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 9.04  
 Event: 002 yr

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

---

Time min					
165.00	.02	.02	.02	.01	.01
170.00	.01	.01	.01	.01	.01
175.00	.01	.01	.01	.01	.01
180.00	.01	.01	.01	.01	.01
185.00	.01	.01	.01	.01	.01
190.00	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.00
200.00	.00	.00	.00	.00	.00
205.00	.00	.00	.00	.00	.00
210.00	.00	.00	.00	.00	.00

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 9.05  
 Event: 015 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SOUTH BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
WET BASIN OUTFLW  WET BASIN      IN            WET BASIN OUTFLW015
SOUTH BASIN INFL  SOUTH BASIN INFL          015 YEAR      015
=====

```

INFLOWS TO: SOUTH BASIN IN

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time     Peak Flow
              cu.ft         min          cfs
-----
              WET BASIN OUTFLW  015          8385        30.00        3.06
              015 YEAR         015          63738       1.00         36.01

```

TOTAL FLOW INTO: SOUTH BASIN IN

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time     Peak Flow
              cu.ft         min          cfs
-----
              SOUTH BASIN IN   015          73203       30.00        39.07

```

Type.... Node: Pond flow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 9.06  
 Event: 015 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SOUTH BASIN IN  
 HYG Tag = 015

-----  
 Peak Discharge = 39.07 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 73203 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	36.09	36.25	36.41	36.56
5.00	36.70	36.84	36.98	37.11	37.24
10.00	37.36	37.47	37.59	37.70	37.80
15.00	37.90	38.00	38.10	38.19	38.28
20.00	38.36	38.45	38.53	38.60	38.68
25.00	38.75	38.82	38.88	38.95	39.01
30.00	39.07	2.96	2.85	2.75	2.66
35.00	2.57	2.48	2.39	2.31	2.23
40.00	2.15	2.08	2.01	1.94	1.87
45.00	1.81	1.74	1.68	1.62	1.57
50.00	1.51	1.46	1.41	1.36	1.32
55.00	1.27	1.23	1.18	1.14	1.10
60.00	1.07	1.03	.99	.96	.93
65.00	.89	.86	.83	.80	.78
70.00	.75	.72	.70	.67	.65
75.00	.63	.61	.59	.57	.55
80.00	.53	.51	.49	.47	.46
85.00	.44	.43	.41	.40	.38
90.00	.37	.36	.35	.33	.32
95.00	.31	.30	.29	.28	.27
100.00	.26	.25	.24	.23	.23
105.00	.22	.21	.20	.20	.19
110.00	.18	.18	.17	.16	.16
115.00	.15	.15	.14	.14	.13
120.00	.13	.12	.12	.12	.11
125.00	.11	.10	.10	.10	.09
130.00	.09	.09	.08	.08	.08
135.00	.08	.07	.07	.07	.07
140.00	.06	.06	.06	.06	.06
145.00	.05	.05	.05	.05	.05
150.00	.04	.04	.04	.04	.04
155.00	.04	.04	.04	.03	.03
160.00	.03	.03	.03	.03	.03

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

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 Event: 015 yr

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

---

Time min					
165.00	.03	.03	.02	.02	.02
170.00	.02	.02	.02	.02	.02
175.00	.02	.02	.02	.02	.02
180.00	.02	.02	.01	.01	.01
185.00	.01	.01	.01	.01	.01
190.00	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.00	.00
215.00	.00	.00	.00	.00	.00
220.00	.00	.00	.00	.00	.00
225.00	.00	.00	.00	.00	.00

Type.... Node: Pond Inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

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 Event: 025 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SOUTH BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
WET BASIN OUTFLW  WET BASIN      IN            WET BASIN OUTFLW025
SOUTH BASIN INFL  SOUTH BASIN INFL          025 YEAR      025
=====
  
```

INFLOWS TO: SOUTH BASIN IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft        min          cfs
-----
              WET BASIN OUTFLW  025          10350        30.00         4.03
              025 YEAR          025          78641        1.00         44.43
  
```

TOTAL FLOW INTO: SOUTH BASIN IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft        min          cfs
-----
              SOUTH BASIN IN    025          90324        30.00         48.46
  
```

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 9.09  
 Event: 025 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SOUTH BASIN IN  
 HYG Tag = 025

-----  
 Peak Discharge = 48.46 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 90324 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	44.53	44.73	44.92	45.11
5.00	45.29	45.46	45.63	45.79	45.94
10.00	46.09	46.24	46.38	46.51	46.64
15.00	46.77	46.89	47.01	47.12	47.23
20.00	47.33	47.44	47.53	47.63	47.72
25.00	47.81	47.94	48.08	48.22	48.34
30.00	48.46	3.78	3.55	3.37	3.25
35.00	3.14	3.03	2.93	2.82	2.73
40.00	2.63	2.54	2.45	2.37	2.29
45.00	2.21	2.13	2.06	1.99	1.92
50.00	1.85	1.79	1.73	1.67	1.61
55.00	1.55	1.50	1.45	1.40	1.35
60.00	1.30	1.26	1.21	1.17	1.13
65.00	1.09	1.05	1.02	.98	.95
70.00	.92	.88	.85	.82	.80
75.00	.77	.74	.72	.69	.67
80.00	.64	.62	.60	.58	.56
85.00	.54	.52	.50	.49	.47
90.00	.45	.44	.42	.41	.39
95.00	.38	.37	.35	.34	.33
100.00	.32	.31	.30	.29	.28
105.00	.27	.26	.25	.24	.23
110.00	.22	.22	.21	.20	.19
115.00	.19	.18	.18	.17	.16
120.00	.16	.15	.15	.14	.14
125.00	.13	.13	.12	.12	.11
130.00	.11	.11	.10	.10	.10
135.00	.09	.09	.09	.08	.08
140.00	.08	.08	.07	.07	.07
145.00	.07	.06	.06	.06	.06
150.00	.05	.05	.05	.05	.05
155.00	.05	.04	.04	.04	.04
160.00	.04	.04	.04	.03	.03

Type.... Node: Pond Inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 9.10  
 Event: 025 yr

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

---

Time min					
165.00	.03	.03	.03	.03	.03
170.00	.03	.03	.03	.02	.02
175.00	.02	.02	.02	.02	.02
180.00	.02	.02	.02	.02	.02
185.00	.02	.02	.01	.01	.01
190.00	.01	.01	.01	.01	.01
195.00	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.01	.01
215.00	.01	.01	.01	.01	.00
220.00	.00	.00	.00	.00	.00
225.00	.00	.00	.00	.00	.00
230.00	.00	.00	.00	.00	.00

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.11  
 Event: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SOUTH BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
WET BASIN OUTFLW  WET BASIN      IN            WET BASIN OUTFLW100
SOUTH BASIN INFL  SOUTH BASIN INFL            100 YEAR      100
=====

```

INFLOWS TO: SOUTH BASIN IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft       min          cfs
-----
              WET BASIN OUTFLW  100          13235        30.00         5.59
              100 YEAR          100          100678       1.00         56.88

```

TOTAL FLOW INTO: SOUTH BASIN IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft       min          cfs
-----
              SOUTH BASIN IN    100          115619       30.00         62.47

```



Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.12  
 Event: 100 yr

TOTAL NODE INFLOW...  
 HYG file =  
 HYG ID = SOUTH BASIN IN  
 HYG Tag = 100

-----  
 Peak Discharge = 62.47 cfs  
 Time to Peak = 30.00 min  
 HYG Volume = 115619 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	57.01	57.26	57.51	57.75
5.00	57.97	58.20	58.41	58.61	58.81
10.00	59.01	59.19	59.37	59.54	59.71
15.00	59.87	60.02	60.17	60.34	60.59
20.00	60.82	61.03	61.24	61.43	61.60
25.00	61.77	61.93	62.08	62.22	62.35
30.00	62.47	5.25	4.93	4.63	4.35
35.00	4.08	3.84	3.60	3.39	3.28
40.00	3.16	3.05	2.95	2.85	2.75
45.00	2.65	2.56	2.47	2.39	2.30
50.00	2.22	2.15	2.07	2.00	1.93
55.00	1.87	1.80	1.74	1.68	1.62
60.00	1.56	1.51	1.46	1.41	1.36
65.00	1.31	1.27	1.22	1.18	1.14
70.00	1.10	1.06	1.03	.99	.96
75.00	.92	.89	.86	.83	.80
80.00	.77	.75	.72	.70	.67
85.00	.65	.63	.60	.58	.56
90.00	.54	.53	.51	.49	.47
95.00	.46	.44	.43	.41	.40
100.00	.38	.37	.36	.34	.33
105.00	.32	.31	.30	.29	.28
110.00	.27	.26	.25	.24	.23
115.00	.23	.22	.21	.20	.20
120.00	.19	.18	.18	.17	.16
125.00	.16	.15	.15	.14	.14
130.00	.13	.13	.12	.12	.12
135.00	.11	.11	.10	.10	.10
140.00	.09	.09	.09	.08	.08
145.00	.08	.08	.07	.07	.07
150.00	.07	.06	.06	.06	.06
155.00	.06	.05	.05	.05	.05
160.00	.05	.04	.04	.04	.04

Type.... Node: Pond inflow Summary  
 Name.... SOUTH BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.13  
 Event: 100 yr

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

---

Time min					
165.00	.04	.04	.04	.03	.03
170.00	.03	.03	.03	.03	.03
175.00	.03	.03	.03	.02	.02
180.00	.02	.02	.02	.02	.02
185.00	.02	.02	.02	.02	.02
190.00	.02	.02	.02	.01	.01
195.00	.01	.01	.01	.01	.01
200.00	.01	.01	.01	.01	.01
205.00	.01	.01	.01	.01	.01
210.00	.01	.01	.01	.01	.01
215.00	.01	.01	.01	.01	.01
220.00	.01	.01	.01	.01	.00
225.00	.00	.00	.00	.00	.00
230.00	.00	.00	.00	.00	.00
235.00	.00	.00	.00	.00	.00

Type.... Pond Routing Summary  
 Name.... SOUTH BASIN OUT Tag: 002  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 9.14  
 Event: 002 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - SOUTH BASIN IN 002  
 Outflow HYG file = NONE STORED - SOUTH BASIN OUT 002

Pond Node Data = SOUTH BASIN  
 Pond Volume Data = SOUTH BASIN-SED  
 Pond Outlet Data = SOUTH BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 540.50 ft  
 Starting Volume = 0 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
 Peak Inflow = 25.41 cfs at 30.00 min  
 Peak Outflow = 22.33 cfs at 30.00 min  
 -----  
 Peak Elevation = 542.87 ft  
 Peak Storage = 12550 cu.ft  
 =====

MASS BALANCE (cu.ft)

-----  
 + Initial Vol = 0  
 + HYG Vol IN = 47500  
 - Infiltration = 0  
 - HYG Vol OUT = 47500  
 - Retained Vol = 0  
 -----  
 Unrouted Vol = - cu.ft (.000% of Inflow Volume)

Type.... Pond Routing Summary  
Name.... SOUTH BASIN OUT Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015 Tag: 015

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Event: 015 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SOUTH BASIN IN 015  
Outflow HYG file = NONE STORED - SOUTH BASIN OUT 015

Pond Node Data = SOUTH BASIN  
Pond Volume Data = SOUTH BASIN-SED  
Pond Outlet Data = SOUTH BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev = 540.50 ft  
Starting Volume = 0 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout = .00 cfs  
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 39.07 cfs at 30.00 min  
Peak Outflow = 33.68 cfs at 30.00 min  
-----  
Peak Elevation = 543.63 ft  
Peak Storage = 23372 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 0  
+ HYG Vol IN = 73203  
- Infiltration = 0  
- HYG Vol OUT = 73203  
- Retained Vol = 0  
-----  
Unrouted Vol = - cu.ft (.000% of Inflow Volume)

Type.... Pond Routing Summary  
Name.... SOUTH BASIN OUT Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025 Tag: 025

Page 9.16  
Event: 025 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SOUTH BASIN IN 025  
Outflow HYG file = NONE STORED - SOUTH BASIN OUT 025

Pond Node Data = SOUTH BASIN  
Pond Volume Data = SOUTH BASIN-SED  
Pond Outlet Data = SOUTH BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev = 540.50 ft  
Starting Volume = 0 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout= .00 cfs  
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 48.46 cfs at 30.00 min  
Peak Outflow = 41.38 cfs at 30.00 min  
-----  
Peak Elevation = 544.09 ft  
Peak Storage = 30572 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 0  
+ HYG Vol IN = 90324  
- Infiltration = 0  
- HYG Vol OUT = 90324  
- Retained Vol = 0  
-----  
Unrouted Vol = 0 cu.ft (.000% of Outflow Volume)

Type.... Pond Routing Summary  
Name.... SOUTH BASIN OUT Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100 Tag: 100

Page 9.17  
Event: 100 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SOUTH BASIN IN 100  
Outflow HYG file = NONE STORED - SOUTH BASIN OUT 100

Pond Node Data = SOUTH BASIN  
Pond Volume Data = SOUTH BASIN-SED  
Pond Outlet Data = SOUTH BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev = 540.50 ft  
Starting Volume = 0 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout = .00 cfs  
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 62.47 cfs at 30.00 min  
Peak Outflow = 58.48 cfs at 30.00 min  
-----  
Peak Elevation = 544.58 ft  
Peak Storage = 38726 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 0  
+ HYG Vol IN = 115619  
- Infiltration = 0  
- HYG Vol OUT = 115619  
- Retained Vol = 0  
-----  
Unrouted Vol = - cu.ft (.000% of Inflow Volume)

LEVEL POOL ROUTING DATA

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - SW BASIN IN 002  
 Outflow HYG file = NONE STORED - SW BASIN OUT 002

Pond Node Data = SW BASIN  
 Pond Volume Data = SW BASIN-SED  
 Pond Outlet Data = SW BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 546.25 ft  
 Starting Volume = 0 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage cu.ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
546.25	.00	0	0	.00	.00	.00
546.75	.31	0	0	.00	.31	.31
547.25	.97	28	526	.00	.97	1.90
547.75	1.78	2021	9229	.00	1.78	69.14
548.25	2.74	9779	18099	.00	2.74	328.69
548.75	3.83	19087	19139	.00	3.83	640.06
548.90	4.18	21982	19457	.00	4.18	736.92
549.25	10.12	28923	20209	.00	10.12	974.21
549.75	28.36	39300	21307	.00	28.36	1338.37
550.25	52.02	50233	22420	.00	52.02	1726.44
550.75	80.26	61724	23548	.00	80.26	2137.72
551.25	112.50	73785	24703	.00	112.50	2572.01
551.75	148.28	86432	25886	.00	148.28	3029.33
552.25	187.28	99670	27049	.00	187.28	3509.61
552.75	229.24	113479	28189	.00	229.24	4011.86
553.25	273.98	127863	29352	.00	273.98	4536.07
553.75	321.33	142835	30539	.00	321.33	5082.48
554.00	345.94	150545	31141	.00	345.94	5364.08

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SW BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
SW BASIN INFLOW  SW BASIN INFLOW                002 YEAR      002
=====

```

```

INFLOWS TO:  SW BASIN    IN
-----
HYG file      HYG ID                HYG tag      Volume      Peak Time     Peak Flow
              HYG ID                HYG tag      cu.ft       min           cfs
-----
              002 YEAR              002          9855        1.00         10.95

```

```

TOTAL FLOW INTO:  SW BASIN    IN
-----
HYG file      HYG ID                HYG tag      Volume      Peak Time     Peak Flow
              HYG ID                HYG tag      cu.ft       min           cfs
-----
              SW BASIN    IN    002          9855        1.00         10.95

```



Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

TOTAL NODE INFLOW...  
 HYG file =  
 HYG ID = SW BASIN IN  
 HYG Tag = 002

-----  
 Peak Discharge = 10.95 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 9855 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	10.95	10.95	10.95	10.95
5.00	10.95	10.95	10.95	10.95	10.95
10.00	10.95	10.95	10.95	10.95	10.95
15.00	10.95	.00			

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

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 Event: 015 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SW BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
SW BASIN INFLOW  SW BASIN INFLOW                015 YEAR    015
=====
  
```

```

INFLOWS TO:  SW BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              HYG ID      HYG tag      cu.ft       min            cfs
-----
              015 YEAR    015          16029       1.00          17.81
  
```

```

TOTAL FLOW INTO:  SW BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              HYG ID      HYG tag      cu.ft       min            cfs
-----
              SW BASIN    IN  015          16029       1.00          17.81
  
```

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

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 Event: 015 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SW BASIN IN  
 HYG Tag = 015

-----  
 Peak Discharge = 17.81 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 16029 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	17.81	17.81	17.81	17.81
5.00	17.81	17.81	17.81	17.81	17.81
10.00	17.81	17.81	17.81	17.81	17.81
15.00	17.81	.00			

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

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 Event: 025 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SW BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
SW BASIN INFLOW  SW BASIN INFLOW                025 YEAR    025
=====

```

```

INFLOWS TO:  SW BASIN      IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
                cu.ft        min          cfs
-----
                025 YEAR    025          19782        1.00          21.98

```

```

TOTAL FLOW INTO:  SW BASIN      IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
                cu.ft        min          cfs
-----
                SW BASIN    IN    025          19782        1.00          21.98

```

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 9.24  
 Event: 025 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SW BASIN IN  
 HYG Tag = 025

-----  
 Peak Discharge = 21.98 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 19782 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	21.98	21.98	21.98	21.98
5.00	21.98	21.98	21.98	21.98	21.98
10.00	21.98	21.98	21.98	21.98	21.98
15.00	21.98	.00			

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.25  
 Event: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: SW BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
SW BASIN INFLOW  SW BASIN INFLOW                100 YEAR    100
=====

```

```

INFLOWS TO:  SW BASIN      IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              HYG ID      HYG tag      cu.ft       min            cfs
-----
              100 YEAR    100          25326       1.00          28.14

```

```

TOTAL FLOW INTO:  SW BASIN      IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              HYG ID      HYG tag      cu.ft       min            cfs
-----
              SW BASIN    IN    100          25326       1.00          28.14

```

Type.... Node: Pond Inflow Summary  
 Name.... SW BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.26  
 Event: 100 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = SW BASIN IN  
 HYG Tag = 100

-----  
 Peak Discharge = 28.14 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 25326 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	28.14	28.14	28.14	28.14
5.00	28.14	28.14	28.14	28.14	28.14
10.00	28.14	28.14	28.14	28.14	28.14
15.00	28.14	.00			

Type.... Pond Routing Summary  
Name.... SW BASIN       OUT    Tag: 002  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 002    Tag: 002

Page 9.27  
Event: 002 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir                = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SW BASIN        IN  002  
Outflow HYG file = NONE STORED - SW BASIN        OUT 002

Pond Node    Data = SW BASIN  
Pond Volume Data = SW BASIN-SED  
Pond Outlet Data = SW BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev    =    546.25 ft  
Starting Volume     =         0 cu.ft  
Starting Outflow    =         .00 cfs  
Starting Infiltr.   =         .00 cfs  
Starting Total Qout=         .00 cfs  
Time Increment     =         1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow        =       10.95 cfs     at       1.00 min  
Peak Outflow       =        2.52 cfs     at       16.00 min  
-----  
Peak Elevation     =       548.14 ft  
Peak Storage       =       7716 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol    =            0  
+ HYG Vol IN     =        9855  
- Infiltration   =            0  
- HYG Vol OUT    =        9855  
- Retained Vol   =            0  
-----  
Unrouted Vol = -                cu.ft (.000% of Inflow Volume)



Type.... Pond Routing Summary  
Name.... SW BASIN      OUT      Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015      Tag: 015

Page 9.28  
Event: 015 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir                    = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SW BASIN      IN 015  
Outflow HYG file = NONE STORED - SW BASIN      OUT 015

Pond Node    Data = SW BASIN  
Pond Volume Data = SW BASIN-SED  
Pond Outlet Data = SW BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev    =    546.25 ft  
Starting Volume     =            0 cu.ft  
Starting Outflow    =            .00 cfs  
Starting Infiltr.   =            .00 cfs  
Starting Total Qout =            .00 cfs  
Time Increment     =            1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow        =    17.81 cfs      at      1.00 min  
Peak Outflow       =    3.21 cfs      at      16.00 min  
-----  
Peak Elevation     =    548.47 ft  
Peak Storage       =    13739 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol    =            0  
+ HYG Vol IN    =           16029  
- Infiltration   =            0  
- HYG Vol OUT   =           16029  
- Retained Vol   =            0  
-----

Unrouted Vol = -                    cu.ft (.000% of Inflow Volume)

Type.... Pond Routing Summary  
Name.... SW BASIN      OUT      Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025      Tag: 025

LEVEL POOL ROUTING SUMMARY

HYG Dir                    = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SW BASIN      IN 025  
Outflow HYG file = NONE STORED - SW BASIN      OUT 025

Pond Node    Data = SW BASIN  
Pond Volume Data = SW BASIN-SED  
Pond Outlet Data = SW BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev    =    546.25 ft  
Starting Volume     =        0 cu.ft  
Starting Outflow    =        .00 cfs  
Starting Infiltr.    =        .00 cfs  
Starting Total Qout =        .00 cfs  
Time Increment     =        1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow         =        21.98 cfs      at        1.00 min  
Peak Outflow        =        3.63 cfs      at        16.00 min  
-----  
Peak Elevation      =        548.66 ft  
Peak Storage        =        17302 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol        =            0  
+ HYG Vol IN        =        19782  
- Infiltration       =            0  
- HYG Vol OUT       =        19782  
- Retained Vol      =            0  
-----  
Unrouted Vol        =        0 cu.ft    (.000% of Outflow Volume)

Type.... Pond Routing Summary  
Name.... SW BASIN      OUT    Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100    Tag: 100

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Event: 100 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir                = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - SW BASIN      IN 100  
Outflow HYG file = NONE STORED - SW BASIN      OUT 100

Pond Node    Data = SW BASIN  
Pond Volume Data = SW BASIN-SED  
Pond Outlet Data = SW BASIN OUT

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev    =    546.25 ft  
Starting Volume     =        0 cu.ft  
Starting Outflow    =        .00 cfs  
Starting Infiltr.   =        .00 cfs  
Starting Total Qout =        .00 cfs  
Time Increment     =        1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow        =        28.14 cfs    at        1.00 min  
Peak Outflow       =        4.68 cfs    at        16.00 min  
-----

Peak Elevation     =        548.93 ft  
Peak Storage       =        22552 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol    =            0  
+ HYG Vol IN    =        25326  
- Infiltration   =            0  
- HYG Vol OUT   =        25326  
- Retained Vol   =            0  
-----  
Unrouted Vol =            0 cu.ft (.000% of Outflow Volume)

LEVEL POOL ROUTING DATA

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - WET BASIN IN 002  
 Outflow HYG file = NONE STORED - WET BASIN OUT 002

Pond Node Data = WET BASIN  
 Pond Volume Data = WET BASIN  
 Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 555.50 ft  
 Starting Volume = 132740 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage cu.ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
544.00	.00	0	2212	.00	.00	.00
544.25	.00	591	2520	.00	.00	19.70
544.50	.00	1262	2848	.00	.00	42.06
544.75	.00	2017	3197	.00	.00	67.23
545.00	.00	2862	3565	.00	.00	95.39
545.25	.00	3801	3953	.00	.00	126.70
545.50	.00	4840	4362	.00	.00	161.33
545.75	.00	5984	4790	.00	.00	199.45
546.00	.00	7237	5239	.00	.00	241.23
546.25	.00	8588	5571	.00	.00	286.26
546.50	.00	10023	5913	.00	.00	334.10
546.75	.00	11545	6265	.00	.00	384.84
547.00	.00	13157	6628	.00	.00	438.56
547.25	.00	14860	7001	.00	.00	495.33
547.50	.00	16658	7384	.00	.00	555.26
547.75	.00	18553	7777	.00	.00	618.42
548.00	.00	20547	8180	.00	.00	684.90
548.25	.00	22637	8545	.00	.00	754.58
548.50	.00	24820	8917	.00	.00	827.33
548.75	.00	27097	9298	.00	.00	903.22
549.00	.00	29470	9686	.00	.00	982.32
549.25	.00	31941	10083	.00	.00	1064.69
549.50	.00	34512	10487	.00	.00	1150.39

LEVEL POOL ROUTING DATA

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - WET BASIN IN 002  
 Outflow HYG file = NONE STORED - WET BASIN OUT 002

Pond Node Data = WET BASIN  
 Pond Volume Data = WET BASIN  
 Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 555.50 ft  
 Starting Volume = 132740 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage cu.ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
549.75	.00	37185	10900	.00	.00	1239.50
550.00	.00	39962	11320	.00	.00	1332.07
550.25	.00	42849	11776	.00	.00	1428.30
550.50	.00	45851	12241	.00	.00	1528.37
550.75	.00	48971	12716	.00	.00	1632.35
551.00	.00	52210	13199	.00	.00	1740.32
551.25	.00	55571	13691	.00	.00	1852.35
551.50	.00	59056	14192	.00	.00	1968.53
551.75	.00	62668	14703	.00	.00	2088.92
552.00	.00	66408	15222	.00	.00	2213.60
552.25	.00	70276	15722	.00	.00	2342.53
552.50	.00	74270	16230	.00	.00	2475.66
552.75	.00	78392	16747	.00	.00	2613.06
553.00	.00	82644	17271	.00	.00	2754.79
553.25	.00	87028	17804	.00	.00	2900.93
553.50	.00	91547	18344	.00	.00	3051.55
553.75	.00	96201	18893	.00	.00	3206.70
554.00	.00	100994	19450	.00	.00	3366.46
554.25	.00	105926	20009	.00	.00	3530.86
554.50	.00	110999	20577	.00	.00	3699.97
554.75	.00	116215	21152	.00	.00	3873.83
555.00	.00	121576	21735	.00	.00	4052.52
555.25	.00	127083	22326	.00	.00	4236.10

Type.... Pond E-V-Q Table  
 Name.... WET BASIN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW

LEVEL POOL ROUTING DATA

HYG Dir = G:\00XXX\00228-10\DETEN\  
 Inflow HYG file = NONE STORED - WET BASIN IN 002  
 Outflow HYG file = NONE STORED - WET BASIN OUT 002

Pond Node Data = WET BASIN  
 Pond Volume Data = WET BASIN  
 Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 555.50 ft  
 Starting Volume = 132740 cu.ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage cu.ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
555.50	.00	132740	22925	.00	.00	4424.64
555.75	3.41	138547	23532	.00	3.41	4621.62
556.00	9.63	144506	24147	.00	9.63	4826.50
556.25	17.70	150618	24748	.00	17.70	5038.29
556.50	24.84	156881	25356	.00	24.84	5254.19
556.75	27.77	163297	25972	.00	27.77	5470.98
557.00	30.42	169867	26595	.00	30.42	5692.65

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

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 Event: 002 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: WET BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
WET BASIN INFLOW  WET BASIN INFLOW                002 YEAR    002
=====
  
```

```

INFLOWS TO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft       min          cfs
-----
              002 YEAR    002          5151        1.00          2.91
  
```

```

TOTAL FLOW INTO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              cu.ft       min          cfs
-----
              WET BASIN  IN  002          5151        1.00          2.91
  
```

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 002 Tag: 002

Page 9.35  
 Event: 002 yr

TOTAL NODE INFLOW...  
 HYG file =  
 HYG ID = WET BASIN IN  
 HYG Tag = 002

-----  
 Peak Discharge = 2.91 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 5151 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	2.91	2.91	2.91	2.91
5.00	2.91	2.91	2.91	2.91	2.91
10.00	2.91	2.91	2.91	2.91	2.91
15.00	2.91	2.91	2.91	2.91	2.91
20.00	2.91	2.91	2.91	2.91	2.91
25.00	2.91	2.91	2.91	2.91	2.91
30.00	2.91				



Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

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 Event: 015 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: WET BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
WET BASIN INFLOW  WET BASIN INFLOW                015 YEAR      015
=====
  
```

```

INFLOWS TO:  WET BASIN  IN
-----
HYG file      HYG ID          HYG tag        Volume      Peak Time    Peak Flow
              HYG ID          HYG tag        cu.ft       min          cfs
-----
              015 YEAR        015            8390        1.00        4.74
  
```

```

TOTAL FLOW INTO:  WET BASIN  IN
-----
HYG file      HYG ID          HYG tag        Volume      Peak Time    Peak Flow
              HYG ID          HYG tag        cu.ft       min          cfs
-----
              WET BASIN      IN  015            8390        1.00        4.74
  
```

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 015 Tag: 015

Page 9.37  
 Event: 015 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = WET BASIN IN  
 HYG Tag = 015

-----  
 Peak Discharge = 4.74 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 8390 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	4.74	4.74	4.74	4.74
5.00	4.74	4.74	4.74	4.74	4.74
10.00	4.74	4.74	4.74	4.74	4.74
15.00	4.74	4.74	4.74	4.74	4.74
20.00	4.74	4.74	4.74	4.74	4.74
25.00	4.74	4.74	4.74	4.74	4.74
30.00	4.74				

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

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 Event: 025 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: WET BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
WET BASIN INFLOW  WET BASIN INFLOW                025 YEAR    025
=====
  
```

```

INFLOWS TO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time     Peak Flow
              HYG ID      HYG tag      cu.ft       min           cfs
-----
              025 YEAR    025          10355       1.00         5.85
  
```

```

TOTAL FLOW INTO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time     Peak Flow
              HYG ID      HYG tag      cu.ft       min           cfs
-----
              WET BASIN  IN  025          10355       1.00         5.85
  
```

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 025 Tag: 025

Page 9.39  
 Event: 025 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = WET BASIN IN  
 HYG Tag = 025

-----  
 Peak Discharge = 5.85 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 10355 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	5.85	5.85	5.85	5.85
5.00	5.85	5.85	5.85	5.85	5.85
10.00	5.85	5.85	5.85	5.85	5.85
15.00	5.85	5.85	5.85	5.85	5.85
20.00	5.85	5.85	5.85	5.85	5.85
25.00	5.85	5.85	5.85	5.85	5.85
30.00	5.85				

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

Page 9.40  
 Event: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: WET BASIN IN

HYG Directory: G:\00XXX\00228-10\DETEN\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
WET BASIN INFLOW  WET BASIN INFLOW      100 YEAR      100
=====

```

```

INFLOWS TO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
                cu.ft      min      cfs
-----
                100 YEAR      100      13240      1.00      7.48

```

```

TOTAL FLOW INTO:  WET BASIN  IN
-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
                cu.ft      min      cfs
-----
                WET BASIN  IN  100      13240      1.00      7.48

```

Type.... Node: Pond Inflow Summary  
 Name.... WET BASIN IN  
 File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
 Storm... 100 Tag: 100

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 Event: 100 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = WET BASIN IN  
 HYG Tag = 100

-----  
 Peak Discharge = 7.48 cfs  
 Time to Peak = 1.00 min  
 HYG Volume = 13240 cu.ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min  
 Time on left represents time for first value in each row.

Time min					
.00	.00	7.48	7.48	7.48	7.48
5.00	7.48	7.48	7.48	7.48	7.48
10.00	7.48	7.48	7.48	7.48	7.48
15.00	7.48	7.48	7.48	7.48	7.48
20.00	7.48	7.48	7.48	7.48	7.48
25.00	7.48	7.48	7.48	7.48	7.48
30.00	7.48				

Type.... Pond Routing Summary  
Name.... WET BASIN OUT Tag: 002  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 002 Tag: 002

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Event: 002 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - WET BASIN IN 002  
Outflow HYG file = NONE STORED - WET BASIN OUT 002

Pond Node Data = WET BASIN  
Pond Volume Data = WET BASIN  
Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev = 555.50 ft  
Starting Volume = 132740 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout = .00 cfs  
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 2.91 cfs at 1.00 min  
Peak Outflow = 1.88 cfs at 30.00 min  
-----

Peak Elevation = 555.64 ft  
Peak Storage = 135925 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 132740  
+ HYG Vol IN = 5151  
- Infiltration = 0  
- HYG Vol OUT = 5146  
- Retained Vol = 132745  
-----  
Unrouted Vol = 0 cu.ft (.009% of Inflow Volume)

Type.... Pond Routing Summary  
Name.... WET BASIN    OUT    Tag: 015  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 015    Tag: 015

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Event: 015 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir                = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - WET BASIN    IN 015  
Outflow HYG file = NONE STORED - WET BASIN    OUT 015

Pond Node    Data = WET BASIN  
Pond Volume Data = WET BASIN  
Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev    =    555.50 ft  
Starting Volume    =    132740 cu.ft  
Starting Outflow    =        .00 cfs  
Starting Infiltr.   =        .00 cfs  
Starting Total Qout =        .00 cfs  
Time Increment     =        1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow        =        4.74 cfs    at        1.00 min  
Peak Outflow       =        3.06 cfs    at        30.00 min  
-----  
Peak Elevation     =        555.72 ft  
Peak Storage       =        137953 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol    =        132740  
+ HYG Vol IN     =        8390  
- Infiltration   =        0  
- HYG Vol OUT    =        8385  
- Retained Vol   =        132745  
-----  
Unrouted Vol    =            0 cu.ft    (.006% of Inflow Volume)



Type.... Pond Routing Summary  
Name.... WET BASIN OUT Tag: 025  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 025 Tag: 025

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Event: 025 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - WET BASIN IN 025  
Outflow HYG file = NONE STORED - WET BASIN OUT 025

Pond Node Data = WET BASIN  
Pond Volume Data = WET BASIN  
Pond Outlet Data = WET BASIN OUTFLW

No Infiltration

INITIAL CONDITIONS

-----  
Starting WS Elev = 555.50 ft  
Starting Volume = 132740 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout = .00 cfs  
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 5.85 cfs at 1.00 min  
Peak Outflow = 4.03 cfs at 30.00 min  
-----  
Peak Elevation = 555.78 ft  
Peak Storage = 139136 cu.ft  
=====

MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 132740  
+ HYG Vol IN = 10355  
- Infiltration = 0  
- HYG Vol OUT = 10350  
- Retained Vol = 132745  
-----  
Unrouted Vol = 1 cu.ft (.007% of Inflow Volume)

Type.... Pond Routing Summary  
Name.... WET BASIN OUT Tag: 100  
File.... G:\00XXX\00228-10\DETEN\PROPOSED2.PPW  
Storm... 100 Tag: 100

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Event: 100 yr

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = G:\00XXX\00228-10\DETEN\  
Inflow HYG file = NONE STORED - WET BASIN IN 100  
Outflow HYG file = NONE STORED - WET BASIN OUT 100

Pond Node Data = WET BASIN  
Pond Volume Data = WET BASIN  
Pond Outlet Data = WET BASIN OUTFLOW

No Infiltration

#### INITIAL CONDITIONS

-----  
Starting WS Elev = 555.50 ft  
Starting Volume = 132740 cu.ft  
Starting Outflow = .00 cfs  
Starting Infiltr. = .00 cfs  
Starting Total Qout = .00 cfs  
Time Increment = 1.00 min

#### INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
Peak Inflow = 7.48 cfs at 1.00 min  
Peak Outflow = 5.59 cfs at 30.00 min  
-----

Peak Elevation = 555.84 ft  
Peak Storage = 140617 cu.ft  
=====

#### MASS BALANCE (cu.ft)

-----  
+ Initial Vol = 132740  
+ HYG Vol IN = 13240  
- Infiltration = 0  
- HYG Vol OUT = 13235  
- Retained Vol = 132745  
-----  
Unrouted Vol = 1 cu.ft (.004% of Inflow Volume)

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*Delmar Gardens  
O'Fallon, Missouri*

**EMERGENCY OVERFLOW STRUCTURE**

**LOW FLOW OUTLET BLOCKED**

**100 - Year Storm Calculation**

THE CLAYTON ENGINEERING CO.

Project No. 00228.10 Project Name Delmar Gardens - O'Fallon

Computation for Delmar Gardens

By MJV Date 28 Jan 07 Checked \_\_\_\_\_ Date \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

Low Flow Structures Assumed Blocked

South Basin

$Q = 58.41$  cfs

$C = 3.32$

$L = 8.5'$  or Weir (Standard MSW Area Inlet open 3 sides)

$h = \left( \frac{Q}{CL} \right)^{2/3} = \left( \frac{58.41}{3.32(8.5)} \right)^{2/3} = 1.62$  Ft

100-yr :  $\text{Sill} + h + \text{Freeboard} = \text{min top of dam}$

$544.14 + 1.62 + 1 = 546.76$

proposed top of dam = 548.0 okay

Southwest Basin

$Q = 28.14$  cfs

$C = 3.32$

$L = 8.5$  Ft

$h = \left( \frac{28.14}{3.32(8.5)} \right)^{2/3} = 1.0$  Ft

100yr :  $548.9 + 1.0 + 1.0 = 550.9$

proposed Top of Dam = 554.0 okay