

***** MWRD PERMIT # 08-076 SUMMARY *****
 ESPLANADE AT ARLINGTON PARK
 A 4.67 ACRE PARCEL PORTION OF LOT 9
 OF THE 36.68 ACRE ARLINGTON PARK OFFICE
 CENTER DEVELOPMENT WITH 1.18 ACRE-FT.
 STORAGE REQUIRED FOR THE 3.43 ACRE DEVELOPMENT
 HOWEVER, 1.30 ACRE-FT LESS 1.18 ACRE LESS 0.046 ACRE-FT
 1.30 ACRE-FT PROVIDED LESS 1.18 ACRE LESS 0.046 ACRE-FT
 1.18 ACRE-FT. FOR ESPLANADE PARKING EXPANSION
 0.046 ACRE-FT. CREDIT AVAILABLE
 0.223 ACRE-FT CREDIT AVAILABLE

REQUIRED BULLETIN-70 DETENTION CALCULATIONS

STATION	TIME	INLET FLOW (CFS)	PEAK FLOW (CFS)	STORAGE (CU FT)	RELEASE RATE (CFS)
1	0.00	0.00	0.00	0.00	0.00
2	0.10	1.00	1.00	0.00	1.00
3	0.20	2.00	2.00	0.00	2.00
4	0.30	3.00	3.00	0.00	3.00
5	0.40	4.00	4.00	0.00	4.00
6	0.50	5.00	5.00	0.00	5.00
7	0.60	6.00	6.00	0.00	6.00
8	0.70	7.00	7.00	0.00	7.00
9	0.80	8.00	8.00	0.00	8.00
10	0.90	9.00	9.00	0.00	9.00
11	1.00	10.00	10.00	0.00	10.00
12	1.10	11.00	11.00	0.00	11.00
13	1.20	12.00	12.00	0.00	12.00
14	1.30	13.00	13.00	0.00	13.00
15	1.40	14.00	14.00	0.00	14.00
16	1.50	15.00	15.00	0.00	15.00
17	1.60	16.00	16.00	0.00	16.00
18	1.70	17.00	17.00	0.00	17.00
19	1.80	18.00	18.00	0.00	18.00
20	1.90	19.00	19.00	0.00	19.00
21	2.00	20.00	20.00	0.00	20.00
22	2.10	21.00	21.00	0.00	21.00
23	2.20	22.00	22.00	0.00	22.00
24	2.30	23.00	23.00	0.00	23.00
25	2.40	24.00	24.00	0.00	24.00
26	2.50	25.00	25.00	0.00	25.00
27	2.60	26.00	26.00	0.00	26.00
28	2.70	27.00	27.00	0.00	27.00
29	2.80	28.00	28.00	0.00	28.00
30	2.90	29.00	29.00	0.00	29.00
31	3.00	30.00	30.00	0.00	30.00
32	3.10	31.00	31.00	0.00	31.00
33	3.20	32.00	32.00	0.00	32.00
34	3.30	33.00	33.00	0.00	33.00
35	3.40	34.00	34.00	0.00	34.00
36	3.50	35.00	35.00	0.00	35.00
37	3.60	36.00	36.00	0.00	36.00
38	3.70	37.00	37.00	0.00	37.00
39	3.80	38.00	38.00	0.00	38.00
40	3.90	39.00	39.00	0.00	39.00
41	4.00	40.00	40.00	0.00	40.00
42	4.10	41.00	41.00	0.00	41.00
43	4.20	42.00	42.00	0.00	42.00
44	4.30	43.00	43.00	0.00	43.00
45	4.40	44.00	44.00	0.00	44.00
46	4.50	45.00	45.00	0.00	45.00
47	4.60	46.00	46.00	0.00	46.00
48	4.70	47.00	47.00	0.00	47.00
49	4.80	48.00	48.00	0.00	48.00
50	4.90	49.00	49.00	0.00	49.00
51	5.00	50.00	50.00	0.00	50.00
52	5.10	51.00	51.00	0.00	51.00
53	5.20	52.00	52.00	0.00	52.00
54	5.30	53.00	53.00	0.00	53.00
55	5.40	54.00	54.00	0.00	54.00
56	5.50	55.00	55.00	0.00	55.00
57	5.60	56.00	56.00	0.00	56.00
58	5.70	57.00	57.00	0.00	57.00
59	5.80	58.00	58.00	0.00	58.00
60	5.90	59.00	59.00	0.00	59.00
61	6.00	60.00	60.00	0.00	60.00
62	6.10	61.00	61.00	0.00	61.00
63	6.20	62.00	62.00	0.00	62.00
64	6.30	63.00	63.00	0.00	63.00
65	6.40	64.00	64.00	0.00	64.00
66	6.50	65.00	65.00	0.00	65.00
67	6.60	66.00	66.00	0.00	66.00
68	6.70	67.00	67.00	0.00	67.00
69	6.80	68.00	68.00	0.00	68.00
70	6.90	69.00	69.00	0.00	69.00
71	7.00	70.00	70.00	0.00	70.00
72	7.10	71.00	71.00	0.00	71.00
73	7.20	72.00	72.00	0.00	72.00
74	7.30	73.00	73.00	0.00	73.00
75	7.40	74.00	74.00	0.00	74.00
76	7.50	75.00	75.00	0.00	75.00
77	7.60	76.00	76.00	0.00	76.00
78	7.70	77.00	77.00	0.00	77.00
79	7.80	78.00	78.00	0.00	78.00
80	7.90	79.00	79.00	0.00	79.00
81	8.00	80.00	80.00	0.00	80.00
82	8.10	81.00	81.00	0.00	81.00
83	8.20	82.00	82.00	0.00	82.00
84	8.30	83.00	83.00	0.00	83.00
85	8.40	84.00	84.00	0.00	84.00
86	8.50	85.00	85.00	0.00	85.00
87	8.60	86.00	86.00	0.00	86.00
88	8.70	87.00	87.00	0.00	87.00
89	8.80	88.00	88.00	0.00	88.00
90	8.90	89.00	89.00	0.00	89.00
91	9.00	90.00	90.00	0.00	90.00
92	9.10	91.00	91.00	0.00	91.00
93	9.20	92.00	92.00	0.00	92.00
94	9.30	93.00	93.00	0.00	93.00
95	9.40	94.00	94.00	0.00	94.00
96	9.50	95.00	95.00	0.00	95.00
97	9.60	96.00	96.00	0.00	96.00
98	9.70	97.00	97.00	0.00	97.00
99	9.80	98.00	98.00	0.00	98.00
100	9.90	99.00	99.00	0.00	99.00
101	10.00	100.00	100.00	0.00	100.00

Revised Curve Number

Curve Number	Area (Acres)	Runoff Coefficient	Runoff (CFS)
1	0.00	0.00	0.00
2	0.10	0.10	1.00
3	0.20	0.20	2.00
4	0.30	0.30	3.00
5	0.40	0.40	4.00
6	0.50	0.50	5.00
7	0.60	0.60	6.00
8	0.70	0.70	7.00
9	0.80	0.80	8.00
10	0.90	0.90	9.00
11	1.00	1.00	10.00
12	1.10	1.10	11.00
13	1.20	1.20	12.00
14	1.30	1.30	13.00
15	1.40	1.40	14.00
16	1.50	1.50	15.00
17	1.60	1.60	16.00
18	1.70	1.70	17.00
19	1.80	1.80	18.00
20	1.90	1.90	19.00
21	2.00	2.00	20.00
22	2.10	2.10	21.00
23	2.20	2.20	22.00
24	2.30	2.30	23.00
25	2.40	2.40	24.00
26	2.50	2.50	25.00
27	2.60	2.60	26.00
28	2.70	2.70	27.00
29	2.80	2.80	28.00
30	2.90	2.90	29.00
31	3.00	3.00	30.00
32	3.10	3.10	31.00
33	3.20	3.20	32.00
34	3.30	3.30	33.00
35	3.40	3.40	34.00
36	3.50	3.50	35.00
37	3.60	3.60	36.00
38	3.70	3.70	37.00
39	3.80	3.80	38.00
40	3.90	3.90	39.00
41	4.00	4.00	40.00
42	4.10	4.10	41.00
43	4.20	4.20	42.00
44	4.30	4.30	43.00
45	4.40	4.40	44.00
46	4.50	4.50	45.00
47	4.60	4.60	46.00
48	4.70	4.70	47.00
49	4.80	4.80	48.00
50	4.90	4.90	49.00
51	5.00	5.00	50.00
52	5.10	5.10	51.00
53	5.20	5.20	52.00
54	5.30	5.30	53.00
55	5.40	5.40	54.00
56	5.50	5.50	55.00
57	5.60	5.60	56.00
58	5.70	5.70	57.00
59	5.80	5.80	58.00
60	5.90	5.90	59.00
61	6.00	6.00	60.00
62	6.10	6.10	61.00
63	6.20	6.20	62.00
64	6.30	6.30	63.00
65	6.40	6.40	64.00
66	6.50	6.50	65.00
67	6.60	6.60	66.00
68	6.70	6.70	67.00
69	6.80	6.80	68.00
70	6.90	6.90	69.00
71	7.00	7.00	70.00
72	7.10	7.10	71.00
73	7.20	7.20	72.00
74	7.30	7.30	73.00
75	7.40	7.40	74.00
76	7.50	7.50	75.00
77	7.60	7.60	76.00
78	7.70	7.70	77.00
79	7.80	7.80	78.00
80	7.90	7.90	79.00
81	8.00	8.00	80.00
82	8.10	8.10	81.00
83	8.20	8.20	82.00
84	8.30	8.30	83.00
85	8.40	8.40	84.00
86	8.50	8.50	85.00
87	8.60	8.60	86.00
88	8.70	8.70	87.00
89	8.80	8.80	88.00
90	8.90	8.90	89.00
91	9.00	9.00	90.00
92	9.10	9.10	91.00
93	9.20	9.20	92.00
94	9.30	9.30	93.00
95	9.40	9.40	94.00
96	9.50	9.50	95.00
97	9.60	9.60	96.00
98	9.70	9.70	97.00
99	9.80	9.80	98.00
100	9.90	9.90	99.00
101	10.00	10.00	100.00

STORM SEWER DATA

10 PROVIDE RIP-RAP TO EXIST. CONCRETE CHANNEL FROM CONCRETE FLARED END SECTION DOWN-SLOPE

11 EA. 12" FLARED END SECTION, WITH RIP-RAP

12 EA. 12" RCP(CL-IV) @ 0.22%

13 EA. AUTOMATIC DRAINAGE GATE (NEENAH R-5050-SF12)

14 3 LF 12" RCP(CL-IV) @ 0.50%

15 EA. 2" RESTRICTOR W/ TRAP, PROJECTING EDGE (SEE DETAIL SHEET)

16 8 LF 12" RCP(CL-IV) @ 0.22%

17 120 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.20%

18 EA. STORM TRAP UNDERGROUND VOLUME STORAGE VAULT ON 8" CONCRETE BASE (See Storm Trap Dwg./Sections)

19 4 LF 12" PVC(SDR-26)

20 EA. STORM TRAP STORM WATER QUALITY STRUCTURE (4'-9"x8'-9") (NOTE: SEE STORM TRAP DRAWINGS)

21 PROVIDE RIP-RAP TO EXIST. CONCRETE CHANNEL FROM CONCRETE FLARED END SECTION DOWN-SLOPE

22 EA. 12" FLARED END SECTION, WITH RIP-RAP

23 EA. 12" RCP(CL-IV) @ 0.22%

24 15 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

25 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

26 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

27 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

28 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

29 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

30 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

31 12 LF 4" PERFORATED PVC(SDR-26) w/ SOCK @ 0.50%

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