
Appendix F: Project Prioritization and Ranking Analysis



Target Scenario (Future Typical Tide; 100 Year SC Long Rainfall)								
Flood Extent Reduction (Acres)								
Project Name	Service Area (Acres)	Cost	Existing Flood Extent (Acres)	Proposed Flood Extent (Acres)	Reduction (Acres)	Rank	Unweighted Score	Weighted Score
Osceola Avenue	27.71	\$ 10,784,000.00	9.18	0.74	8.44	4	15	15.00
Station 14	22.80	\$ 2,588,000.00	1.88	0.60	1.28	11	8	8.00
Station 16 Extension	14.46	\$ 1,663,000.00	1.01	0.20	0.81	16	3	3.00
Station 17	12.58	\$ 2,337,000.00	5.58	4.85	0.73	17	2	2.00
Station 18	25.08	\$ 4,095,000.00	3.65	2.59	1.06	13	6	6.00
Station 19	10.99	\$ 1,608,000.00	1.33	0.17	1.16	12	7	7.00
Station 20.5	18.11	\$ 3,914,000.00	5.14	0.35	4.79	6	13	13.00
Station 20.5 Extension	22.77	\$ 3,121,000.00	4.33	0.28	4.05	7	12	12.00
Station 22.5	18.34	\$ 3,627,000.00	2.96	0.54	2.42	8	11	11.00
Station 22.5 Extension	3.35	\$ 1,877,000.00	0.36	0.00	0.36	18	1	1.00
Station 23	11.71	\$ 3,153,000.00	1.52	0.05	1.47	9	10	10.00
Station 24	13.57	\$ 3,802,000.00	1.99	0.61	1.38	10	9	9.00
Station 24 Extension	6.06	\$ 1,462,000.00	1.08	0.09	0.99	14	5	5.00
Station 26.5	32.28	\$ 6,312,000.00	10.01	0.66	9.35	2	17	17.00
Station 26.5 Extension	36.68	\$ 7,054,000.00	8.58	0.03	8.55	3	16	16.00
Station 28.5 Extension	34.46	\$ 6,652,000.00	8.37	0.35	8.02	5	14	14.00
Station 30 Extension	26.15	\$ 3,273,000.00	13.65	1.45	12.20	1	18	18.00
Station 31 Extension	10.40	\$ 1,603,000.00	0.97	0.00	0.97	15	4	4.00

Target Scenario (Future Typical Tide; 100 Year SC Long Rainfall)						
Reduction in Buildings Impacted by Flooding						
Project Name	Existing Buildings Impacted	Proposed Buildings Impacted	Reduction	Rank	Unweighted Score	Weighted Score
Osceola Avenue	35	4	31	4	15	11.25
Station 14	12	3	9	10.5	8.5	6.38
Station 16 Extension	4	0	4	16.5	2.5	1.88
Station 17	14	12	2	18	1	0.75
Station 18	22	18	4	16.5	2.5	1.88
Station 19	6	0	6	12.5	6.5	4.88
Station 20.5	24	5	19	8	11	8.25
Station 20.5 Extension	26	3	23	6	13	9.75
Station 22.5	31	5	26	5	14	10.50
Station 22.5 Extension	5	0	5	14.5	4.5	3.38
Station 23	8	2	6	12.5	6.5	4.88
Station 24	14	4	10	9	10	7.50
Station 24 Extension	12	3	9	10.5	8.5	6.38
Station 26.5	31	11	20	7	12	9.00
Station 26.5 Extension	44	1	43	2	17	12.75
Station 28.5 Extension	49	4	45	1	18	13.50
Station 30 Extension	49	7	42	3	16	12.00
Station 31 Extension	5	0	5	14.5	4.5	3.38

Target Scenario (Future Typical Tide; 100 Year SC Long Rainfall)								
Project Name	Cost per Acre of Flood Reduction				Cost per Reduction in Buildings Impacted			
	Cost per Acre of Reduced Flooding	Rank	Unweighted Score	Weighted Score	Cost per Building	Rank	Unweighted Score	Weighted Score
Osceola Avenue	\$ 1,277,725.12	7	12	6.00	\$ 347,870.97	12	7	1.75
Station 14	\$ 2,021,875.00	12	7	3.50	\$ 287,555.56	9	10	2.50
Station 16 Extension	\$ 2,053,086.42	13	6	3.00	\$ 415,750.00	15	4	1.00
Station 17	\$ 3,201,369.86	16	3	1.50	\$ 1,168,500.00	18	1	0.25
Station 18	\$ 3,863,207.55	17	2	1.00	\$ 1,023,750.00	17	2	0.50
Station 19	\$ 1,386,206.90	8	11	5.50	\$ 268,000.00	8	11	2.75
Station 20.5	\$ 817,119.00	4	15	7.50	\$ 206,000.00	7	12	3.00
Station 20.5 Extension	\$ 770,617.28	3	16	8.00	\$ 135,695.65	2	17	4.25
Station 22.5	\$ 1,498,760.33	10	9	4.50	\$ 139,500.00	3	16	4.00
Station 22.5 Extension	\$ 5,213,888.89	18	1	0.50	\$ 375,400.00	13	6	1.50
Station 23	\$ 2,144,897.96	14	5	2.50	\$ 525,500.00	16	3	0.75
Station 24	\$ 2,755,072.46	15	4	2.00	\$ 380,200.00	14	5	1.25
Station 24 Extension	\$ 1,476,767.68	9	10	5.00	\$ 162,444.44	5	14	3.50
Station 26.5	\$ 675,080.21	2	17	8.50	\$ 315,600.00	10	9	2.25
Station 26.5 Extension	\$ 825,029.24	5	14	7.00	\$ 164,046.51	6	13	3.25
Station 28.5 Extension	\$ 829,426.43	6	13	6.50	\$ 147,822.22	4	15	3.75
Station 30 Extension	\$ 268,278.69	1	18	9.00	\$ 77,928.57	1	18	4.50
Station 31 Extension	\$ 1,652,577.32	11	8	4.00	\$ 320,600.00	11	8	2.00

Tidal Flooding Scenario (Future Typical Tide; No Rainfall)						
Flood Extent Reduction (Acres)						
Project Name	Existing Flood Extent (Acres)	Proposed Flood Extent (Acres)	Reduction (Acres)	Rank	Unweighted Score	Weighted Score
Osceola Avenue	9.14	0.74	8.40	1	18	9.00
Station 14	0.00	0.00	0.00	-	0	0.00
Station 16 Extension	0.00	0.00	0.00	-	0	0.00
Station 17	4.83	4.23	0.60	3	16	8.00
Station 18	1.83	0.06	1.77	2	17	8.50
Station 19	0.17	0.00	0.17	4	0	0.00
Station 20.5	0.08	0.08	0.00	-	0	0.00
Station 20.5 Extension	0.00	0.00	0.00	-	0	0.00
Station 22.5	0.00	0.00	0.00	-	0	0.00
Station 22.5 Extension	0.00	0.00	0.00	-	0	0.00
Station 23	0.02	0.02	0.00	-	0	0.00
Station 24	0.51	0.37	0.14	5	0	0.00
Station 24 Extension	0.00	0.00	0.00	-	0	0.00
Station 26.5	0.02	0.02	0.00	-	0	0.00
Station 26.5 Extension	0.00	0.00	0.00	-	0	0.00
Station 28.5 Extension	0.00	0.00	0.00	-	0	0.00
Station 30 Extension	0.00	0.00	0.00	-	0	0.00
Station 31 Extension	0.00	0.00	0.00	-	0	0.00

Tidal Flooding Scenario (Future Typical Tide; No Rainfall)						
Reduction in Buildings Impacted by Flooding						
Project Name	Existing Buildings Impacted	Proposed Buildings Impacted	Reduction	Rank	Unweighted Score	Weighted Score
Osceola Avenue	34	4	30	1	18	6.75
Station 14	0	0	0	-	0	0.00
Station 16 Extension	0	0	0	-	0	0.00
Station 17	11	10	1	3	16	6.00
Station 18	13	1	12	2	17	6.38
Station 19	0	0	0	-	0	0.00
Station 20.5	0	0	0	-	0	0.00
Station 20.5 Extension	0	0	0	-	0	0.00
Station 22.5	0	0	0	-	0	0.00
Station 22.5 Extension	0	0	0	-	0	0.00
Station 23	1	1	0	-	0	0.00
Station 24	2	2	0	-	0	0.00
Station 24 Extension	0	0	0	-	0	0.00
Station 26.5	0	0	0	-	0	0.00
Station 26.5 Extension	0	0	0	-	0	0.00
Station 28.5 Extension	0	0	0	-	0	0.00
Station 30 Extension	0	0	0	-	0	0.00
Station 31 Extension	0	0	0	-	0	0.00

Tidal Flooding Scenario (Future Typical Tide; No Rainfall)								
Project Name	Cost per Acre of Flood Reduction				Cost per Reduction in Buildings Impacted			
	Cost per Acre of Reduced Flooding	Rank	Unweighted Score	Weighted Score	Cost per Building	Rank	Unweighted Score	Weighted Score
Osceola Avenue	\$ 1,283,809.52	1	18	4.50	\$ 359,466.67	2	17	2.13
Station 14	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 16 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 17	\$ 3,895,000.00	3	16	4.00	\$ 2,337,000.00	3	16	2.00
Station 18	\$ 2,313,559.32	2	17	4.25	\$ 341,250.00	1	18	2.25
Station 19	\$ 9,458,823.53	4	15	3.75	\$ -	-	0	0.00
Station 20.5	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 20.5 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 22.5	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 22.5 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 23	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 24	\$ 27,157,142.86	5	14	3.50	\$ -	-	0	0.00
Station 24 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 26.5	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 26.5 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 28.5 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 30 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00
Station 31 Extension	\$ -	-	0	0.00	\$ -	-	0	0.00

Prioritization and Ranking			
Project Name	Cumulative Score	Initial Rank	Final Rank
Osceola Avenue	56.38	1	1
Station 14	20.38	13	13
Station 16 Extension	8.88	17	17
Station 17	24.50	10	10
Station 18	30.75	8	8
Station 19	23.88	11	11
Station 20.5	31.75	7	6
Station 20.5 Extension	34.00	6	7
Station 22.5	30.00	9	9
Station 22.5 Extension	6.38	18	18
Station 23	18.13	15	15
Station 24	23.25	12	12
Station 24 Extension	19.88	14	14
Station 26.5	36.75	5	2
Station 26.5 Extension	39.00	3	4
Station 28.5 Extension	37.75	4	5
Station 30 Extension	43.50	2	3
Station 31 Extension	13.38	16	16