

**TABLE 5  
CLEARANCES BETWEEN USF AND HGL (100-YR, & 100-YR+20%) BASED ON PCSWMM RESULTS**

Manhole		Connected Building Laterals			Dist. MH-MH (m)	Distance from Bldg Lateral Connection to D/S Manhole	Top of Road Elevations			<sup>2</sup> BFF Elevation (m)	MUSF Elevation (m)	100-year HGL Elev's			100-year + 20% HGL Elev's			Clearances		
U/S	D/S	Single or Block #	Unit No.	Lot #			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	USF-100yr HGL (m)	BFF - 100yr+20 %	CL Road - 100-yr HGL
213	212	Single	Unit 1	L007	78.45	45.0	122.11	120.64	121.48	118.92	118.62	118.19	117.09	117.72	118.20	117.29	117.81	0.90	1.11	3.77
213	212	Single	Unit 2	L008	78.45	31.0	122.11	120.64	121.22	118.92	118.62	118.19	117.09	117.52	118.20	117.29	117.65	1.10	1.27	3.70
213	212	Single	Unit 3	L009	78.45	23.7	122.11	120.64	121.08	118.92	118.62	118.19	117.09	117.42	118.20	117.29	117.56	1.20	1.36	3.66
213	212	Single	Unit 4	L010	78.45	9.9	122.11	120.64	120.83	118.92	118.62	118.19	117.09	117.23	118.20	117.29	117.40	1.39	1.52	3.60
213	212	Single	Unit 5	L011	78.45	2.5	122.11	120.64	120.69	118.92	118.62	118.19	117.09	117.12	118.20	117.29	117.32	1.50	1.60	3.56
212	211	Single	Unit 6	L012	81.45	71.9	120.64	120.16	120.58	118.92	118.62	117.09	116.95	117.07	117.29	117.13	117.27	1.55	1.65	3.51
212	211	Single	Unit 7	L013	81.45	61.3	120.64	120.16	120.52	117.83	117.53	117.09	116.95	117.05	117.29	117.13	117.25	0.48	0.58	3.47
212	211	Single	Unit 8	L014	81.45	50.7	120.64	120.16	120.46	117.83	117.53	117.09	116.95	117.03	117.29	117.13	117.23	0.50	0.60	3.42
212	211	Single	Unit 9	L015	81.45	40.1	120.64	120.16	120.40	117.83	117.53	117.09	116.95	117.02	117.29	117.13	117.21	0.51	0.62	3.38
212	211	Single	Unit 10	L016	81.45	29.5	120.64	120.16	120.33	117.83	117.53	117.09	116.95	117.00	117.29	117.13	117.19	0.53	0.64	3.34
212	211	Single	Unit 11	L017	81.45	18.9	120.64	120.16	120.27	117.80	117.50	117.09	116.95	116.98	117.29	117.13	117.17	0.52	0.63	3.29
212	211	Single	Unit 12	L018	81.45	7.9	120.64	120.16	120.21	117.80	117.50	117.09	116.95	116.96	117.29	117.13	117.15	0.54	0.65	3.25
211	210	Single	Unit 13	L019	10.40	10.4	120.16	120.03	120.16	117.80	117.50	116.95	116.94	116.95	117.13	117.12	117.13	0.56	0.67	3.22
211	210	Single	Unit 14	L020	10.40	5.1	120.16	120.03	120.09	117.84	117.54	116.95	116.94	116.94	117.13	117.12	117.12	0.60	0.72	3.15
211	210	Single	Unit 15	L022	10.40	0.0	120.16	120.03	120.03	117.84	117.54	116.95	116.94	116.94	117.13	117.12	117.12	0.60	0.72	3.09
210	209	Single	Unit 16	L023	67.44	59.0	120.03	119.11	119.91	117.84	117.54	116.94	116.69	116.91	117.12	116.88	117.09	0.63	0.75	3.00
210	209	Single	Unit 17	L024	67.44	49.0	120.03	119.11	119.78	117.47	117.17	116.94	116.69	116.87	117.12	116.88	117.05	0.30	0.42	2.91
210	209	Single	Unit 18	L025	67.44	38.0	120.03	119.11	119.63	117.43	117.13	116.94	116.69	116.83	117.12	116.88	117.02	0.30	0.42	2.80
210	209	Single	Unit 19	L026	67.44	27.5	120.03	119.11	119.49	117.40	117.10	116.94	116.69	116.79	117.12	116.88	116.98	0.31	0.42	2.69
210	209	Single	Unit 20	L027	67.44	16.8	120.03	119.11	119.34	117.40	117.10	116.94	116.69	116.75	117.12	116.88	116.94	0.35	0.46	2.58
213	212	01	Unit 1	L003	78.45	69.9	122.11	120.64	121.95	119.74	119.44	118.19	117.09	118.07	118.20	117.29	118.10	1.37	1.64	3.88
213	212	01	Unit 2	L004	78.45	63.6	122.11	120.64	121.83	119.74	119.44	118.19	117.09	117.98	118.20	117.29	118.02	1.46	1.72	3.85
213	212	01	Unit 3	L005	78.45	63.6	122.11	120.64	121.83	119.74	119.44	118.19	117.09	117.98	118.20	117.29	118.02	1.46	1.72	3.85
213	212	01	Unit 4	L006	78.45	55.7	122.11	120.64	121.68	119.74	119.44	118.19	117.09	117.87	118.20	117.29	117.93	1.57	1.81	3.82
213	212	02	Unit 1	L142	78.45	66.7	122.11	120.64	121.89	119.74	119.44	118.19	117.09	118.02	118.20	117.29	118.06	1.42	1.68	3.87
213	212	02	Unit 2	L143	78.45	66.7	122.11	120.64	121.89	119.74	119.44	118.19	117.09	118.02	118.20	117.29	118.06	1.42	1.68	3.87
213	212	02	Unit 3	L144	78.45	54.6	122.11	120.64	121.66	119.74	119.44	118.19	117.09	117.85	118.20	117.29	117.92	1.59	1.82	3.81
213	212	02	Unit 4	L145	78.45	54.6	122.11	120.64	121.66	119.74	119.44	118.19	117.09	117.85	118.20	117.29	117.92	1.59	1.82	3.81
213	212	02	Unit 5	L146	78.45	42.3	122.11	120.64	121.43	118.92	118.62	118.19	117.09	117.68	118.20	117.29	117.78	0.94	1.14	3.75
213	212	02	Unit 6	L147	78.45	42.3	122.11	120.64	121.43	118.92	118.62	118.19	117.09	117.68	118.20	117.29	117.78	0.94	1.14	3.75
213	212	02	Unit 7	L148	78.45	30.2	122.11	120.64	121.21	118.92	118.62	118.19	117.09	117.51	118.20	117.29	117.64	1.11	1.28	3.69
213	212	02	Unit 8	L149	78.45	30.2	122.11	120.64	121.21	118.92	118.62	118.19	117.09	117.51	118.20	117.29	117.64	1.11	1.28	3.69
213	212	03	Unit 1	L150	78.45	14.1	122.11	120.64	120.90	118.70	118.40	118.19	117.09	117.29	118.20	117.29	117.45	1.11	1.25	3.62
213	212	03	Unit 2	L151	78.45	14.1	122.11	120.64	120.90	118.70	118.40	118.19	117.09	117.29	118.20	117.29	117.45	1.11	1.25	3.62
213	212	03	Unit 3	L152	78.45	3.2	122.11	120.64	120.70	118.70	118.40	118.19	117.09	117.13	118.20	117.29	117.33	1.27	1.37	3.57
212	211	03	Unit 4	L153	81.45	77.5	120.64	120.16	120.62	117.83	117.53	117.09	116.95	117.08	117.29	117.13	117.28	0.45	0.55	3.53
212	211	03	Unit 5	L154	81.45	77.5	120.64	120.16	120.62	117.83	117.53	117.09	116.95	117.08	117.29	117.13	117.28	0.45	0.55	3.53
212	211	03	Unit 6	L155	81.45	65.4	120.64	120.16	120.55	117.83	117.53	117.09	116.95	117.06	117.29	117.13	117.26	0.47	0.57	3.48
212	211	04	Unit 1	L157	81.45	46.3	120.64	120.16	120.43	117.80	117.50	117.09	116.95	117.03	117.29	117.13	117.22	0.47	0.58	3.41
212	211	04	Unit 2	L158	81.45	46.3	120.64	120.16	120.43	117.80	117.50	117.09	116.95	117.03	117.29	117.13	117.22	0.47	0.58	3.41
212	211	04	Unit 3	L159	81.45	35.9	120.64	120.16	120.37	117.80	117.50	117.09	116.95	117.01	117.29	117.13	117.20	0.49	0.60	3.36
212	211	04	Unit 4	L160	81.45	28.5	120.64	120.16	120.33	117.80	117.50	117.09	116.95	117.00	117.29	117.13	117.19	0.50	0.61	3.33
212	211	04	Unit 5	L161	81.45	28.5	120.64	120.16	120.33	117.80	117.50	117.09	116.95	117.00	117.29	117.13	117.19	0.50	0.61	3.33
212	211	04	Unit 6	L162	81.45	20.8	120.64	120.16	120.28	117.80	117.50	117.09	116.95	116.98	117.29	117.13	117.17	0.52	0.63	3.30
212	211	04	Unit 7	L163	81.45	10.6	120.64	120.16	120.22	117.80	117.50	117.09	116.95	116.96	117.29	117.13	117.15	0.54	0.65	3.26
212	211	04	Unit 8	L164	81.45	10.6	120.64	120.16	120.22	117.80	117.50	117.09	116.95	116.96	117.29	117.13	117.15	0.54	0.65	3.26
210	209	05	Unit 1	L165	67.44	29.7	120.03	119.11	119.52	117.40	117.10	116.94	116.69	116.80	117.12	116.88	116.99	0.30	0.42	2.71
210	209	05	Unit 2	L166	67.44	24.1	120.03	119.11	119.44	117.38	117.08	116.94	116.69	116.78	117.12	116.88	116.97	0.30	0.41	2.66
210	209	05	Unit 3	L167	67.44	16.3	120.03	119.11	119.33	117.35	117.05	116.94	116.69	116.75	117.12	116.88	116.94	0.30	0.41	2.58

Manhole		Connected Building Laterals			Dist. MH-MH (m)	Distance from Bldg Lateral Connection to D/S Manhole	Top of Road Elevations			<sup>2</sup> BFF Elevation (m)	MUSF Elevation (m)	100-year HGL Elev's			100-year + 20% HGL Elev's			Clearances		
U/S	D/S	Single or Block #	Unit No.	Lot #			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	USF-100yr HGL (m)	BFF - 100yr+20 %	CL Road - 100-yr HGL
210	209	05	Unit 4	L168	67.44	16.3	120.03	119.11	119.33	117.35	117.05	116.94	116.69	116.75	117.12	116.88	116.94	0.30	0.41	2.58
210	209	05	Unit 5	L169	67.44	9.0	120.03	119.11	119.23	117.33	117.03	116.94	116.69	116.73	117.12	116.88	116.92	0.30	0.41	2.51
209	208	06	Unit 1	L170	41.05	38.3	119.11	118.70	119.08	117.28	116.98	116.69	116.54	116.68	116.88	116.74	116.87	0.30	0.41	2.40
209	208	06	Unit 2	L171	41.05	32.6	119.11	118.70	119.03	117.26	116.96	116.69	116.54	116.66	116.88	116.74	116.85	0.30	0.41	2.36
209	208	06	Unit 3	L172	41.05	24.8	119.11	118.70	118.95	117.23	116.93	116.69	116.54	116.63	116.88	116.74	116.83	0.30	0.41	2.32
209	208	06	Unit 4	L173	41.05	24.8	119.11	118.70	118.95	117.23	116.93	116.69	116.54	116.63	116.88	116.74	116.83	0.30	0.41	2.32
209	208	06	Unit 5	L174	41.05	17.5	119.11	118.70	118.87	117.20	116.90	116.69	116.54	116.60	116.88	116.74	116.80	0.30	0.40	2.27
209	208	07	Unit 1	L028	41.05	20.8	119.11	118.70	118.91	117.22	116.92	116.69	116.54	116.62	116.88	116.74	116.81	0.30	0.40	2.29
209	208	07	Unit 2	L029	41.05	20.8	119.11	118.70	118.91	117.22	116.92	116.69	116.54	116.62	116.88	116.74	116.81	0.30	0.40	2.29
209	208	07	Unit 3	L030	41.05	10.4	119.11	118.70	118.80	117.18	116.88	116.69	116.54	116.58	116.88	116.74	116.77	0.30	0.40	2.23
209	208	07	Unit 4	L031	41.05	3.0	119.11	118.70	118.73	117.15	116.85	116.69	116.54	116.55	116.88	116.74	116.75	0.30	0.40	2.18
209	208	07	Unit 5	L032	41.05	3.0	119.11	118.70	118.73	117.15	116.85	116.69	116.54	116.55	116.88	116.74	116.75	0.30	0.40	2.18
208	207	07	Unit 6	L033	118.01	113.7	118.70	118.31	118.69	117.11	116.81	116.54	115.90	116.51	116.74	116.15	116.72	0.30	0.40	2.17
208	207	07	Unit 7	L034	118.01	103.2	118.70	118.31	118.65	117.06	116.76	116.54	115.90	116.46	116.74	116.15	116.66	0.30	0.39	2.19
208	207	07	Unit 8	L035	118.01	103.2	118.70	118.31	118.65	117.06	116.76	116.54	115.90	116.46	116.74	116.15	116.66	0.30	0.39	2.19
208	207	08	Unit 1	L036	118.01	88.2	118.70	118.31	118.60	116.98	116.68	116.54	115.90	116.38	116.74	116.15	116.59	0.30	0.39	2.23
208	207	08	Unit 2	L037	118.01	88.2	118.70	118.31	118.60	116.98	116.68	116.54	115.90	116.38	116.74	116.15	116.59	0.30	0.39	2.23
208	207	08	Unit 3	L038	118.01	77.8	118.70	118.31	118.57	116.92	116.62	116.54	115.90	116.32	116.74	116.15	116.54	0.30	0.38	2.25
208	207	08	Unit 4	L039	118.01	70.3	118.70	118.31	118.54	116.88	116.58	116.54	115.90	116.28	116.74	116.15	116.50	0.30	0.38	2.26
208	207	08	Unit 5	L040	118.01	70.3	118.70	118.31	118.54	116.88	116.58	116.54	115.90	116.28	116.74	116.15	116.50	0.30	0.38	2.26
208	207	08	Unit 6	L041	118.01	63.0	118.70	118.31	118.52	116.84	116.54	116.54	115.90	116.24	116.74	116.15	116.46	0.30	0.38	2.28
208	207	08	Unit 7	L042	118.01	52.6	118.70	118.31	118.48	116.79	116.49	116.54	115.90	116.19	116.74	116.15	116.41	0.30	0.37	2.30
208	207	08	Unit 8	L043	118.01	52.6	118.70	118.31	118.48	116.79	116.49	116.54	115.90	116.19	116.74	116.15	116.41	0.30	0.37	2.30
208	207	09	Unit 1	L044	118.01	37.7	118.70	118.31	118.43	116.71	116.41	116.54	115.90	116.11	116.74	116.15	116.34	0.30	0.37	2.33
208	207	09	Unit 2	L045	118.01	37.7	118.70	118.31	118.43	116.71	116.41	116.54	115.90	116.11	116.74	116.15	116.34	0.30	0.37	2.33
208	207	09	Unit 3	L046	118.01	27.4	118.70	118.31	118.40	116.65	116.35	116.54	115.90	116.05	116.74	116.15	116.29	0.30	0.36	2.35
208	207	09	Unit 4	L047	118.01	19.9	118.70	118.31	118.38	116.61	116.31	116.54	115.90	116.01	116.74	116.15	116.25	0.30	0.36	2.37
208	207	09	Unit 5	L048	118.01	19.9	118.70	118.31	118.38	116.61	116.31	116.54	115.90	116.01	116.74	116.15	116.25	0.30	0.36	2.37
208	207	09	Unit 6	L049	118.01	12.5	118.70	118.31	118.35	116.57	116.27	116.54	115.90	115.97	116.74	116.15	116.21	0.30	0.36	2.38
208	207	09	Unit 7	L050	118.01	2.0	118.70	118.31	118.32	116.51	116.21	116.54	115.90	115.91	116.74	116.15	116.16	0.30	0.35	2.40
208	207	09	Unit 8	L051	118.01	2.0	118.70	118.31	118.32	116.51	116.21	116.54	115.90	115.91	116.74	116.15	116.16	0.30	0.35	2.40
207	206	10	Unit 1	L052	11.41	6.1	118.31	118.32	118.31	116.48	116.18	115.90	115.86	115.88	116.15	116.14	116.14	0.30	0.34	2.43
207	206	10	Unit 2	L053	11.41	6.1	118.31	118.32	118.31	116.48	116.18	115.90	115.86	115.88	116.15	116.14	116.14	0.30	0.34	2.43
206	205	11	Unit 1	L054	68.67	67.3	118.32	118.22	118.32	116.46	116.16	115.86	115.84	115.86	116.14	116.08	116.14	0.30	0.32	2.46
206	205	11	Unit 2	L055	68.67	67.3	118.32	118.22	118.32	116.46	116.16	115.86	115.84	115.86	116.14	116.08	116.14	0.30	0.32	2.46
206	205	11	Unit 3	L056	68.67	57.6	118.32	118.22	118.30	116.46	116.16	115.86	115.84	115.86	116.14	116.08	116.13	0.30	0.33	2.45
206	205	11	Unit 4	L057	68.67	50.0	118.32	118.22	118.29	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.12	0.30	0.33	2.44
206	205	11	Unit 5	L058	68.67	50.0	118.32	118.22	118.29	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.12	0.30	0.33	2.44
206	205	11	Unit 6	L059	68.67	42.7	118.32	118.22	118.28	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.12	0.30	0.34	2.43
206	205	11	Unit 7	L060	68.67	32.3	118.32	118.22	118.27	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.11	0.30	0.34	2.42
206	205	11	Unit 8	L061	68.67	32.3	118.32	118.22	118.27	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.11	0.30	0.34	2.42
206	205	12	Unit 1	L062	68.67	17.6	118.32	118.22	118.25	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.10	0.30	0.35	2.40
206	205	12	Unit 2	L063	68.67	17.6	118.32	118.22	118.25	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.10	0.30	0.35	2.40
206	205	12	Unit 3	L064	68.67	7.0	118.32	118.22	118.23	116.44	116.14	115.86	115.84	115.84	116.14	116.08	116.09	0.30	0.36	2.39
206	205	12	Unit 4	L065	68.67	0.0	118.32	118.22	118.22	116.44	116.14	115.86	115.84	115.84	116.14	116.08	116.08	0.30	0.36	2.38
205	204	12	Unit 5	L066	53.43	53.4	118.22	118.36	118.22	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.08	0.30	0.36	2.38
205	204	12	Unit 6	L067	53.43	45.5	118.22	118.36	118.24	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.08	0.30	0.37	2.40
205	204	12	Unit 7	L068	53.43	35.2	118.22	118.36	118.27	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.07	0.30	0.38	2.43
205	204	12	Unit 8	L069	53.43	35.2	118.22	118.36	118.27	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.07	0.30	0.38	2.43
205	204	13	Unit 1	L070	53.43	20.3	118.22	118.36	118.31	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.06	0.30	0.39	2.46
205	204	13	Unit 2	L071	53.43	20.3	118.22	118.36	118.31	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.06	0.30	0.39	2.46
205	204	13	Unit 3	L072	53.43	10.1	118.22	118.36	118.33	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.05	0.30	0.40	2.49

Manhole		Connected Building Laterals			Dist. MH-MH (m)	Distance from Bldg Lateral Connection to D/S Manhole	Top of Road Elevations			<sup>2</sup> BFF Elevation (m)	MUSF Elevation (m)	100-year HGL Elev's			100-year + 20% HGL Elev's			Clearances		
U/S	D/S	Single or Block #	Unit No.	Lot #			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	USF-100yr HGL (m)	BFF - 100yr+20 %	CL Road - 100-yr HGL
205	204	13	Unit 4	L073	53.43	2.4	118.22	118.36	118.35	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.04	0.30	0.40	2.51
205	204	13	Unit 5	L074	53.43	2.4	118.22	118.36	118.35	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.04	0.30	0.40	2.51
204	203	13	Unit 6	L075	27.20	22.4	118.36	118.19	118.33	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.04	0.30	0.41	2.49
204	203	13	Unit 7	L076	27.20	12.0	118.36	118.19	118.27	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.03	0.30	0.41	2.42
204	203	13	Unit 8	L077	27.20	12.0	118.36	118.19	118.27	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.03	0.30	0.41	2.42
227	208	14	Unit 1	L110	63.84	57.5	118.77	118.70	118.90	117.39	117.09	116.82	116.54	116.79	117.09	116.74	117.06	0.30	0.33	2.11
227	208	14	Unit 2	L111	63.84	57.5	118.77	118.70	118.90	117.39	117.09	116.82	116.54	116.79	117.09	116.74	117.06	0.30	0.33	2.11
227	208	14	Unit 3	L112	63.84	45.4	118.77	118.70	118.84	117.34	117.04	116.82	116.54	116.74	117.09	116.74	116.99	0.30	0.35	2.10
227	208	14	Unit 4	L113	63.84	45.4	118.77	118.70	118.86	117.34	117.04	116.82	116.54	116.74	117.09	116.74	116.99	0.30	0.35	2.12
227	208	14	Unit 5	L114	63.84	33.1	118.77	118.70	118.79	117.28	116.98	116.82	116.54	116.68	117.09	116.74	116.92	0.30	0.36	2.11
227	208	14	Unit 6	L115	63.84	33.1	118.77	118.70	118.79	117.28	116.98	116.82	116.54	116.68	117.09	116.74	116.92	0.30	0.36	2.11
227	208	14	Unit 7	L116	63.84	21.2	118.77	118.70	118.73	117.23	116.93	116.82	116.54	116.63	117.09	116.74	116.86	0.30	0.37	2.10
227	208	14	Unit 8	L117	63.84	21.2	118.77	118.70	118.73	117.23	116.93	116.82	116.54	116.63	117.09	116.74	116.86	0.30	0.37	2.10
208	207	15	Unit 1	L118	118.01	71.2	118.70	118.31	118.55	116.88	116.58	116.54	115.90	116.28	116.74	116.15	116.50	0.30	0.38	2.26
208	207	15	Unit 2	L119	118.01	71.2	118.70	118.31	118.55	116.88	116.58	116.54	115.90	116.28	116.74	116.15	116.50	0.30	0.38	2.26
208	207	15	Unit 3	L120	118.01	60.8	118.70	118.31	118.51	116.83	116.53	116.54	115.90	116.23	116.74	116.15	116.45	0.30	0.38	2.28
208	207	15	Unit 4	L121	118.01	53.7	118.70	118.31	118.49	116.79	116.49	116.54	115.90	116.19	116.74	116.15	116.42	0.30	0.37	2.30
208	207	15	Unit 5	L122	118.01	53.7	118.70	118.31	118.49	116.79	116.49	116.54	115.90	116.19	116.74	116.15	116.42	0.30	0.37	2.30
208	207	15	Unit 6	L123	118.01	45.9	118.70	118.31	118.46	116.75	116.45	116.54	115.90	116.15	116.74	116.15	116.38	0.30	0.37	2.31
208	207	15	Unit 7	L124	118.01	35.6	118.70	118.31	118.43	116.69	116.39	116.54	115.90	116.09	116.74	116.15	116.33	0.30	0.37	2.33
208	207	15	Unit 8	L125	118.01	35.6	118.70	118.31	118.43	116.69	116.39	116.54	115.90	116.09	116.74	116.15	116.33	0.30	0.37	2.33
215	205	16	Unit 1	L141	89.77	81.9	118.66	118.22	118.62	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.78
215	205	16	Unit 2	L140	89.77	81.9	118.66	118.22	118.62	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.78
215	205	16	Unit 3	L139	89.77	71.5	118.66	118.22	118.57	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.73
215	205	16	Unit 4	L138	89.77	64.2	118.66	118.22	118.53	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.69
215	205	16	Unit 5	L137	89.77	64.2	118.66	118.22	118.53	116.64	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.69
215	205	16	Unit 6	L136	89.77	56.6	118.66	118.22	118.50	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.65
215	205	16	Unit 7	L135	89.77	46.2	118.66	118.22	118.45	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.60
215	205	16	Unit 8	L134	89.77	46.2	118.66	118.22	118.45	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.60
206	205	17	Unit 1	L126	68.67	54.6	118.32	118.22	118.30	116.46	116.16	115.86	115.84	115.86	116.14	116.08	116.13	0.30	0.33	2.44
206	205	17	Unit 2	L127	68.67	54.6	118.32	118.22	118.30	116.46	116.16	115.86	115.84	115.86	116.14	116.08	116.13	0.30	0.33	2.44
206	205	17	Unit 3	L128	68.67	44.6	118.32	118.22	118.28	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.12	0.30	0.33	2.43
206	205	17	Unit 4	L129	68.67	37.3	118.32	118.22	118.27	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.11	0.30	0.34	2.42
206	205	17	Unit 5	L130	68.67	37.3	118.32	118.22	118.27	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.11	0.30	0.34	2.42
206	205	17	Unit 6	L131	68.67	29.8	118.32	118.22	118.26	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.11	0.30	0.34	2.41
206	205	17	Unit 7	L132	68.67	19.4	118.32	118.22	118.25	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.10	0.30	0.35	2.40
206	205	17	Unit 8	L133	68.67	19.4	118.32	118.22	118.25	116.45	116.15	115.86	115.84	115.85	116.14	116.08	116.10	0.30	0.35	2.40
228	216	18	Unit 1	L085	64.73	58.4	119.31	119.74	119.35	117.05	116.75	116.50	115.99	116.45	116.50	116.13	116.47	0.30	0.58	2.90
228	216	18	Unit 2	L084	64.73	58.4	119.31	119.74	119.35	117.05	116.75	116.50	115.99	116.45	116.50	116.13	116.47	0.30	0.58	2.90
228	216	18	Unit 3	L083	64.73	46.2	119.31	119.74	119.43	117.05	116.75	116.50	115.99	116.36	116.50	116.13	116.40	0.39	0.65	3.08
228	216	18	Unit 4	L082	64.73	46.2	119.31	119.74	119.43	117.05	116.75	116.50	115.99	116.36	116.50	116.13	116.40	0.39	0.65	3.08
228	216	18	Unit 5	L081	64.73	34.0	119.31	119.74	119.51	117.03	116.73	116.50	115.99	116.26	116.50	116.13	116.33	0.47	0.70	3.26
228	216	18	Unit 6	L080	64.73	34.0	119.31	119.74	119.51	117.03	116.73	116.50	115.99	116.26	116.50	116.13	116.33	0.47	0.70	3.26
228	216	18	Unit 7	L079	64.73	21.8	119.31	119.74	119.60	117.03	116.73	116.50	115.99	116.16	116.50	116.13	116.26	0.57	0.77	3.44
228	216	18	Unit 8	L078	64.73	21.8	119.31	119.74	119.60	117.03	116.73	116.50	115.99	116.16	116.50	116.13	116.26	0.57	0.77	3.44
215	205	19	Unit 1	L086	89.77	80.8	118.66	118.22	118.62	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.77
215	205	19	Unit 2	L087	89.77	80.8	118.66	118.22	118.62	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.77
215	205	19	Unit 3	L088	89.77	70.4	118.66	118.22	118.57	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.72
215	205	19	Unit 4	L089	89.77	62.9	118.66	118.22	118.53	116.60	116.30	115.84	115.84	115.84	116.09	116.08	116.08	0.46	0.52	2.68
215	205	19	Unit 5	L090	89.77	62.9	118.66	118.22	118.53	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.68
215	205	19	Unit 6	L091	89.77	55.5	118.66	118.22	118.49	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.65
215	205	19	Unit 7	L092	89.77	45.0	118.66	118.22	118.44	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.60

Manhole		Connected Building Laterals			Dist. MH-MH (m)	Distance from Bldg Lateral Connection to D/S Manhole	Top of Road Elevations			<sup>2</sup> BFF Elevation (m)	MUSF Elevation (m)	100-year HGL Elev's			100-year + 20% HGL Elev's			Clearances		
U/S	D/S	Single or Block #	Unit No.	Lot #			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)			At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	At U/S MH	At D/S MH	<sup>1</sup> At Building (m)	USF-100yr HGL (m)	BFF - 100yr+20 %	CL Road - 100-yr HGL
215	205	19	Unit 8	L093	89.77	45.0	118.66	118.22	118.44	116.44	116.14	115.84	115.84	115.84	116.09	116.08	116.08	0.30	0.36	2.60
205	204	20	Unit 1	L094	53.43	31.3	118.22	118.36	118.28	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.06	0.30	0.38	2.44
205	204	20	Unit 2	L095	53.43	31.3	118.22	118.36	118.28	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.06	0.30	0.38	2.44
205	204	20	Unit 3	L096	53.43	20.3	118.22	118.36	118.31	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.06	0.30	0.39	2.46
205	204	20	Unit 4	L097	53.43	13.0	118.22	118.36	118.33	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.05	0.30	0.39	2.48
205	204	20	Unit 5	L098	53.43	13.0	118.22	118.36	118.33	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.05	0.30	0.39	2.48
205	204	20	Unit 6	L099	53.43	6.0	118.22	118.36	118.34	116.44	116.14	115.84	115.84	115.84	116.08	116.04	116.04	0.30	0.40	2.50
204	203	20	Unit 7	L100	27.20	22.4	118.36	118.19	118.33	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.04	0.30	0.41	2.49
204	203	20	Unit 8	L101	27.20	22.4	118.36	118.19	118.33	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.04	0.30	0.41	2.49
216	226	21	Unit 1	L109	69.42	21.4	119.74	118.76	119.06	116.76	116.46	115.99	115.84	115.89	116.13	116.04	116.07	0.57	0.69	3.17
216	226	21	Unit 2	L108	69.42	21.4	119.74	118.76	119.06	116.76	116.46	115.99	115.84	115.89	116.13	116.04	116.07	0.57	0.69	3.17
216	226	21	Unit 3	L107	69.42	11.0	119.74	118.76	118.92	116.76	116.46	115.99	115.84	115.87	116.13	116.04	116.05	0.59	0.71	3.05
216	226	21	Unit 4	L106	69.42	3.5	119.74	118.76	118.81	116.76	116.46	115.99	115.84	115.85	116.13	116.04	116.04	0.61	0.72	2.96
216	226	21	Unit 5	L105	69.42	3.5	119.74	118.76	118.81	116.45	116.15	115.99	115.84	115.85	116.13	116.04	116.04	0.30	0.41	2.96
226	203	21	Unit 6	L104	60.84	57.0	118.76	118.19	118.72	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.03	0.30	0.41	2.88
226	203	21	Unit 7	L103	60.84	46.6	118.76	118.19	118.63	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.03	0.30	0.41	2.78
226	203	21	Unit 8	L102	60.84	46.6	118.76	118.19	118.63	116.44	116.14	115.84	115.84	115.84	116.04	116.02	116.03	0.30	0.41	2.78
minimum =																		0.30	0.32	2.10
maximum =																		1.59	1.82	3.88
Notes																				
1) Interpolated between manholes																				
2) BFF elevations are set at 300mm above USF elevations																				

**HGL ELEVATIONS AT MANHOLES (FROM PCSWMM)**

MH	100-yr HGL (m)	100-yr +20% HGL (m)	MH T/Lid
203	115.84	116.02	118.19
204	115.84	116.04	118.36
205	115.84	116.08	118.22
206	115.86	116.14	118.32
207	115.90	116.15	118.31
208	116.54	116.74	118.7
209	116.69	116.88	119.11
210	116.94	117.12	120.03
211	116.95	117.13	120.16
212	117.09	117.29	120.64
213	118.19	118.20	122.11
215	115.84	116.09	118.66
216	115.99	116.13	119.74
217	116.37	116.37	120.04
218	117.33	117.34	120.89
219	118.16	118.16	121.74
220	117.70	117.70	121.04
221	117.76	117.76	121.12
223	116.22	116.22	118.83
225	116.90	117.09	118.55
226	115.84	116.04	118.76
227	116.82	117.09	118.77
228	116.50	116.50	119.31