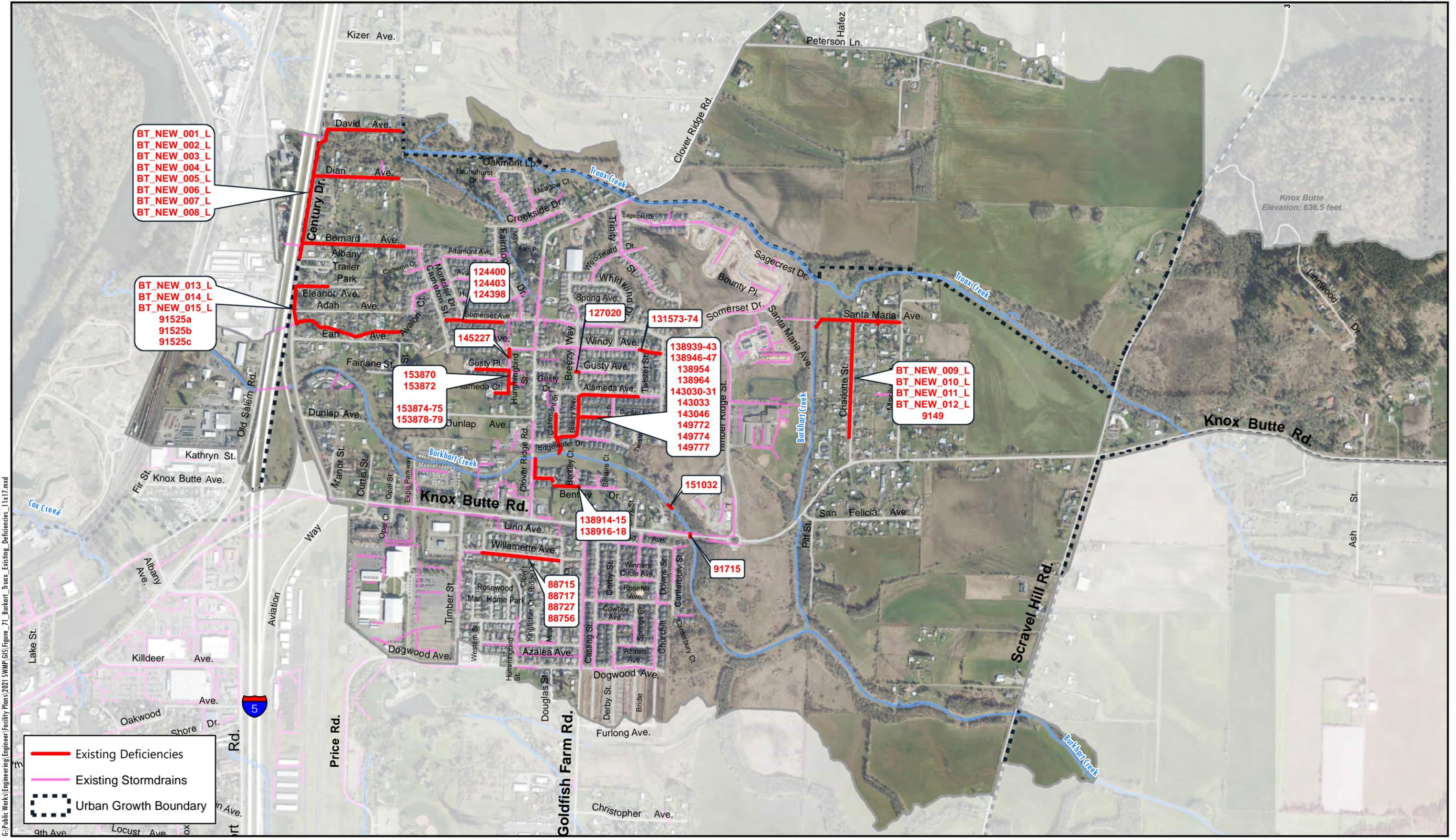


# Appendix A – Existing and Build-Out (with flood control) Deficiencies

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- Figure 7.1 Burkart-Truax Basin Existing Deficiencies
- Table 7.1 Burkart-Truax Basin Existing Deficiencies
- Figure 7.2 Cox Creek Basin Existing Deficiencies
- Table 7.2 Cox Creek Basin Existing Deficiencies
- Figure 7.3 North Albany Basin Existing Deficiencies
- Table 7.3 North Albany Basin Existing Deficiencies
- Figure 7.4 Oak Creek Basin Existing Deficiencies
- Table 7.4 Oak Creek Basin Existing Deficiencies
- Figure 7.5 Periwinkle Creek Basin Existing Deficiencies
- Table 7.5 Periwinkle Creek Basin Existing Deficiencies
- Figure 7.6 Willamette River Basin Existing Deficiencies
- Table 7.6 Willamette River Basin Existing Deficiencies
- Figure 8.1 Burkart-Truax Basin Build-Out Deficiencies
- Table 8.1 Burkart-Truax Basin Build-Out Deficiencies
- Figure 8.2 Cox Creek Basin Build-Out Deficiencies
- Table 8.2 Cox Creek Basin Build-Out Deficiencies
- Figure 8.3 North Albany Basin Build-Out Deficiencies
- Table 8.3 North Albany Basin Build-Out Deficiencies
- Figure 8.4 Oak Creek Basin Build-Out Deficiencies
- Table 8.4 Oak Creek Basin Build-Out Deficiencies
- Figure 8.5 Periwinkle Creek Basin Build-Out Deficiencies
- Table 8.5 Periwinkle Creek Basin Build-Out Deficiencies
- Figure 8.6 Willamette River Basin Build-Out Deficiencies
- Table 8.6 Willamette River Basin Build-Out Deficiencies



G:\Public Works\Engineering\Facility Plans\2021 SWMP\GIS\Figure 7.1\_Burkart\_Trux\_Existing\_Deficiencies\_11x17.mxd

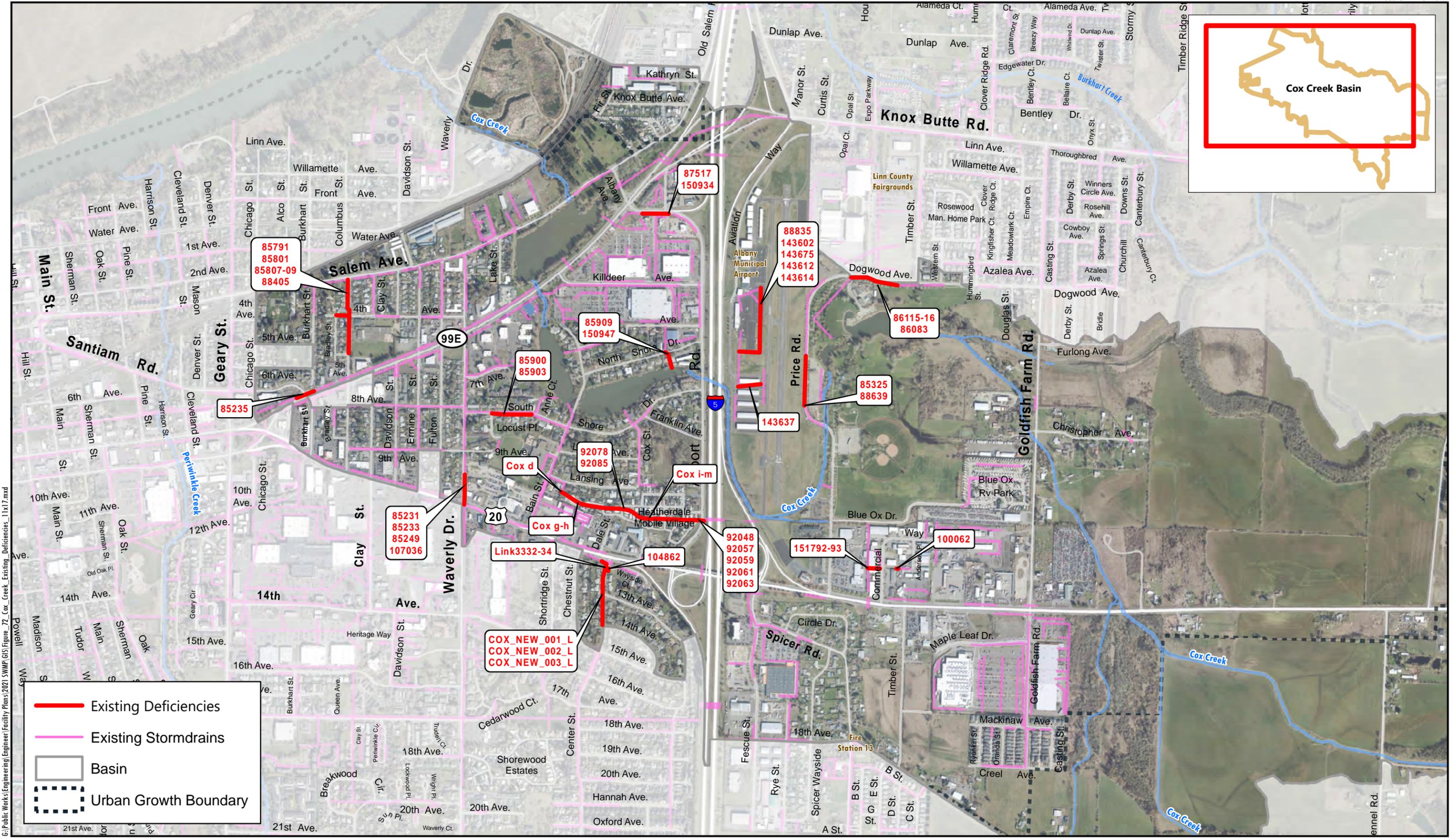
0 0.25 0.5 1 Miles

Date: 3/21/2021

**Burkart-Truax Basin Existing Deficiencies**

Figure 7.2

Burkhart-Traux Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
91715	30320210HW	30320220PE	Bridge/Culvert Trunk	100-yr	216.97	224.97	216.60	225.00	68.00	0.54	8	0.00	0.00	3149.55	352.57	414.33	425.32	431.48	0.62	0.00	0.00	0.00	0.71	0.09	0.09	0.09
151032	Crk_B_6	Crk_B_5	Bridge/Culvert Trunk	100-yr	216.62	227.00	216.55	227.00	39.00	0.18	10	0.38	0.38	129.47	353.36	398.31	401.04	402.65	3.00	2.32	2.31	2.31	4.68	4.38	4.38	4.38
88715	30441540CB	30441580CB	Collector	25-yr	219.94	222.60	218.95	222.47	330.75	0.30	1.5	1.16	1.16	5.75	6.28	7.69	7.83	7.97	1.20	0.12	0.00	0.00	2.12	1.73	1.66	1.62
88717	30441510CB	30441540CB	Collector	25-yr	220.84	224.01	219.94	222.60	298.15	0.30	1.5	1.67	1.67	5.77	4.43	5.30	5.35	5.42	2.05	0.82	0.72	0.66	1.20	0.12	0.00	0.00
88727	30441460CB	30441510CB	Collector	25-yr	221.03	224.19	220.84	224.01	66.86	0.28	1.25	1.91	1.91	3.44	4.47	5.29	5.34	5.39	1.91	0.58	0.51	0.46	2.05	0.82	0.72	0.66
88756	30441450CB	30441460CB	Collector	25-yr	221.59	224.76	221.03	224.19	183.50	0.31	1.25	1.92	1.92	3.57	4.52	5.28	5.33	5.37	1.67	0.00	0.00	0.00	1.91	0.58	0.51	0.46
91498	33440020HW	33440010PE	Collector	25-yr	221.25	223.56	221.11	226.30	40.71	0.34	1.667	0.64	0.64	8.16	9.08	12.72	13.84	15.42	1.12	0.91	0.85	0.80	3.83	3.63	3.59	3.56
124398	30410160MH	30410050MH	Collector	25-yr	217.30	220.63	217.02	220.72	139.18	0.15	1	2.33	2.33	1.38	2.54	2.75	2.81	2.94	0.57	0.00	0.00	0.00	1.33	0.81	0.76	0.70
124400	30410050MH	30410040MH	Collector	25-yr	217.02	220.72	216.68	220.28	91.72	0.29	1	2.70	2.70	1.93	2.51	2.70	2.72	2.80	1.33	0.81	0.76	0.70	1.33	0.85	0.76	0.66
124403	30410040MH	30410030MH	Collector	25-yr	216.68	220.28	215.49	220.21	408.83	0.26	1	2.60	2.60	1.82	2.51	2.68	2.69	2.72	1.33	0.85	0.76	0.66	3.27	2.93	2.65	2.40
127020	30410100MH	30410090MH	Collector	25-yr	217.96	220.78	217.82	220.84	38.02	0.37	1	1.82	1.82	2.16	2.31	2.90	3.37	3.40	1.63	0.87	0.12	0.00	1.84	1.18	0.51	0.40
131573	30320060MH	30320050MH	Collector	25-yr	219.94	222.97	219.20	222.90	114.47	0.61	0.833	2.20	2.20	1.71	2.32	2.37	2.43	2.50	0.00	0.00	0.00	0.00	1.09	0.94	0.77	0.57
131574	30320050MH	30320040MH	Collector	25-yr	219.20	222.90	218.76	222.17	130.04	0.30	0.833	2.87	2.87	1.20	2.31	2.37	2.43	2.50	1.09	0.94	0.77	0.57	1.71	1.49	1.24	0.98
138939	30410880MH	30410870MH	Collector	25-yr	215.60	222.48	215.43	221.85	143.09	0.12	2	4.88	4.88	7.80	6.67	8.67	9.08	8.92	1.57	1.05	1.03	1.01	0.96	0.43	0.42	0.40
138940	30410870MH	30410840MH	Collector	25-yr	215.43	221.85	215.10	221.70	60.69	0.68	2	4.42	4.42	18.59	6.67	8.66	9.07	8.91	0.96	0.43	0.42	0.40	0.81	0.29	0.27	0.26
138941	30410840MH	30410850MH	Collector	25-yr	215.10	221.70	215.00	221.59	8.29	0.24	2	4.60	4.60	11.11	8.27	10.71	11.52	11.81	0.81	0.29	0.27	0.26	0.70	0.18	0.16	0.15
138942	30410850MH	30410860MH	Collector	25-yr	215.00	221.59	214.80	220.14	117.00	0.09	2	4.59	4.59	6.94	9.43	12.19	13.38	14.07	0.70	0.18	0.16	0.15	0.00	0.00	0.00	0.00
138943	30410860MH	30410860OF	Collector	25-yr	214.80	220.14	213.93	220.00	54.02	0.06	2	3.34	3.34	5.33	9.43	12.18	13.37	14.07	0.00	0.00	0.00	0.00	1.14	0.60	0.59	0.58
138954	30410900MH	30410890MH	Collector	25-yr	216.00	222.64	215.83	222.38	85.88	0.08	1.5	5.14	5.14	3.00	5.43	7.03	7.16	6.94	1.68	1.18	1.16	1.13	1.46	0.94	0.92	0.90
138964	30410890MH	30410880MH	Collector	25-yr	215.83	222.38	215.60	222.48	30.15	0.20	1.5	5.05	5.05	4.69	5.89	7.65	7.91	7.71	1.46	0.94	0.92	0.90	1.57	1.05	1.03	1.01
143030	30320210MH	30320200MH	Collector	25-yr	217.23	223.99	216.80	221.70	342.00	0.11	1.5	5.26	5.26	3.55	2.80	3.72	4.39	4.46	2.94	2.39	1.80	1.70	0.69	0.19	0.09	0.00
143031	30320200MH	30410920MH	Collector	25-yr	216.80	221.70	216.27	221.78	48.00	0.25	1.5	3.40	3.40	5.25	3.75	4.97	5.99	6.40	0.69	0.19	0.09	0.00	0.78	0.29	0.27	0.23
143033	30411940MH	30410920MH	Collector	25-yr	216.93	221.80	216.27	221.78	244.25	0.27	1.25	3.62	3.62	3.36	1.74	2.27	2.20	2.13	0.77	0.32	0.31	0.29	0.78	0.29	0.27	0.23
143046	30410920MH	30410900MH	Collector	25-yr	216.27	221.78	216.00	222.64	109.31	0.12	1.5	4.01	4.01	3.62	5.43	7.02	7.16	6.95	0.78	0.29	0.27	0.23	1.68	1.18	1.16	1.13
145227	30410957CI	30410950MH	Collector	25-yr	216.64	221.35	216.32	221.89	94.51	0.34	1	3.71	3.71	1.93	2.95	2.99	2.98	2.95	1.24	0.98	0.72	0.44	2.49	2.24	1.89	1.51
149774	30320240MH	30411930MH	Collector	25-yr	218.15	221.77	217.26	221.48	297.00	0.27	1	2.62	2.62	1.84	1.32	1.72	1.66	1.71	0.69	0.00	0.00	0.00	0.45	0.00	0.00	0.00
149777	30411930MH	30411940MH	Collector	25-yr	217.26	221.48	216.93	221.80	51.00	0.43	1.25	2.97	2.97	4.24	1.32	1.71	1.63	1.53	0.45	0.00	0.00	0.00	0.77	0.32	0.31	0.29
91525a	Node3313	38420210HW	Collector	25-yr	217.80	222.00	212.11	218.00	380.75	1.49	0	4.20	4.20	329.54	6.36	7.94	10.35	13.14	3.79	3.74	3.68	3.62	5.34	5.28	5.19	5.10
91525b	Node3312	Node3313	Collector	25-yr	219.22	223.00	217.80	222.00	462.38	0.31	0	3.78	3.78	30.06	6.37	7.94	10.36	13.15	2.54	2.47	2.41	2.34	3.79	3.74	3.68	3.62
91525c	Node3311	Node3312	Collector	25-yr	220.05	225.00	219.22	223.00	398.52	0.21	0	4.95	4.95	38.11	6.38	7.96	10.37	13.16	3.67	3.54	3.38	3.21	2.54	2.47	2.41	2.34
138914	30410835CI	30410830MH	Feeder	10-yr	217.77	222.83	217.27	222.47	44.52	1.10	1	4.06	4.06	3.74	3.72	4.01	4.34	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138915	30410830MH	30410820MH	Feeder	10-yr	217.27	222.47	216.54	222.15	246.38	0.22	1	4.20	4.20	1.65	3.81	3.63	3.49	3.36	0.00	0.00	0.00	0.00	1.22	0.30	0.17	0.11
138916	30410820CI	30410810MH	Feeder	10-yr	216.09	222.09	215.87	221.61	28.48	0.14	1.25	4.75	4.75	2.42	3.79	3.63	3.49	3.36	1.29	0.50	0.43	0.42	0.83	0.06	0.00	0.00
138917	30410810MH	30410800MH	Feeder	10-yr	215.87	221.61	215.37	221.52	198.12	0.15	1.5	4.24	4.24	4.02	4.87	4.95	5.13	5.41	0.83	0.06	0.00	0.00	0.81	0.12	0.08	0.08
138918	30410800MH	30410800OF	Feeder	10-yr	215.37	221.52	213.72	226.00	218.50	0.07	1.5	4.65	4.65	2.84	4.86	4.94	5.13	5.40	0.81	0.12	0.08	0.08	5.37	4.76	4.75	4.74
138946	30410910MH	30410840CI	Feeder	10-yr	217.41	221.31	216.80	221.97	259.90	0.23	1	2.90	2.90	1.73	0.80	1.02	1.28	1.54	0.41	0.00	0.00	0.00	1.08	0.56	0.55	0.54
138947	30410840CI	30410840MH	Feeder	10-yr	216.80	221.97	215.10	221.70	19.84	0.25	1	4.17	4.17	1.79	0.80	1.02	1.28	1.54	1.08	0.56	0.55	0.54	0.81	0.29	0.27	0.26
149772	30320230MH	30320240MH	Feeder	10-yr	219.27	222.56	218.15	221.77	335.00	0.33	1	2.29	2.29	2.06	0.42	0.63	0.81	1.01	1.47	0.68	0.49	0.28	0.69	0.00	0.00	0.00
153870	Node3329	Node3328	Feeder	10-yr	218.28	222.10	217.74	222.40	150.00	0.29	1	2.82	2.82	1.79	1.05	1.22	1.23	1.27	0.31	0.00	0.00	0.00	0.75	0.43	0.35	0.30
153872	Node3328	Node3327	Feeder	10-yr	217.74	222.40	217.47	222.44	112.00	0.22	1	3.66	3.66	1.56	1.04	1.21	1.18	1.15	0.75	0.43	0.35	0.30	0.89	0.57	0.43	0.34
153874	Node3344	Node3327	Feeder	10-yr	218.56	222.48	217.47	222.44	25.00	3.56	0.833	3.09	3.09	3.83	0.43	0.65	1.02	1.44	0.92	0.58	0.41	0.26	0.89	0.57	0.43	0.34
153875	Node3327	Node3326	Feeder	10-yr	217.47	222.44	216.98	222.48	152.00	0.26	1	3.97	3.97	1.68	1.46	1.65	1.69	1.70	0.89	0.57	0.43	0.34	1.22	0.97	0.83	0.72
153878	Node3332	Node3331	Feeder	10-yr	218.10	222.00	217.93	222.00	50.00	0.28	1	2.90	2.90	1.75	1.60	1.71	1.91	2.24	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
153879	Node3331	Node3330	Feeder	10-yr	217.93	222.00	217.06	223.00	304.00	0.29	1	3.07	3.07	1.77	1.59	1.71	1.70	1.73	0.09	0.00	0.00	0.00	1.69	1.45	1.33	1.23
New Infrastructure																										
BT_NEW_001_L	BT_NEW_001	BT_NEW_003	Feeder	10-yr																						
BT_NEW_002_L	BT_NEW_002	BT_NEW_003	Collector	25-yr</																						



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Date: 3/21/2021

Cox Creek Basin Existing Deficiencies

Figure 7.2

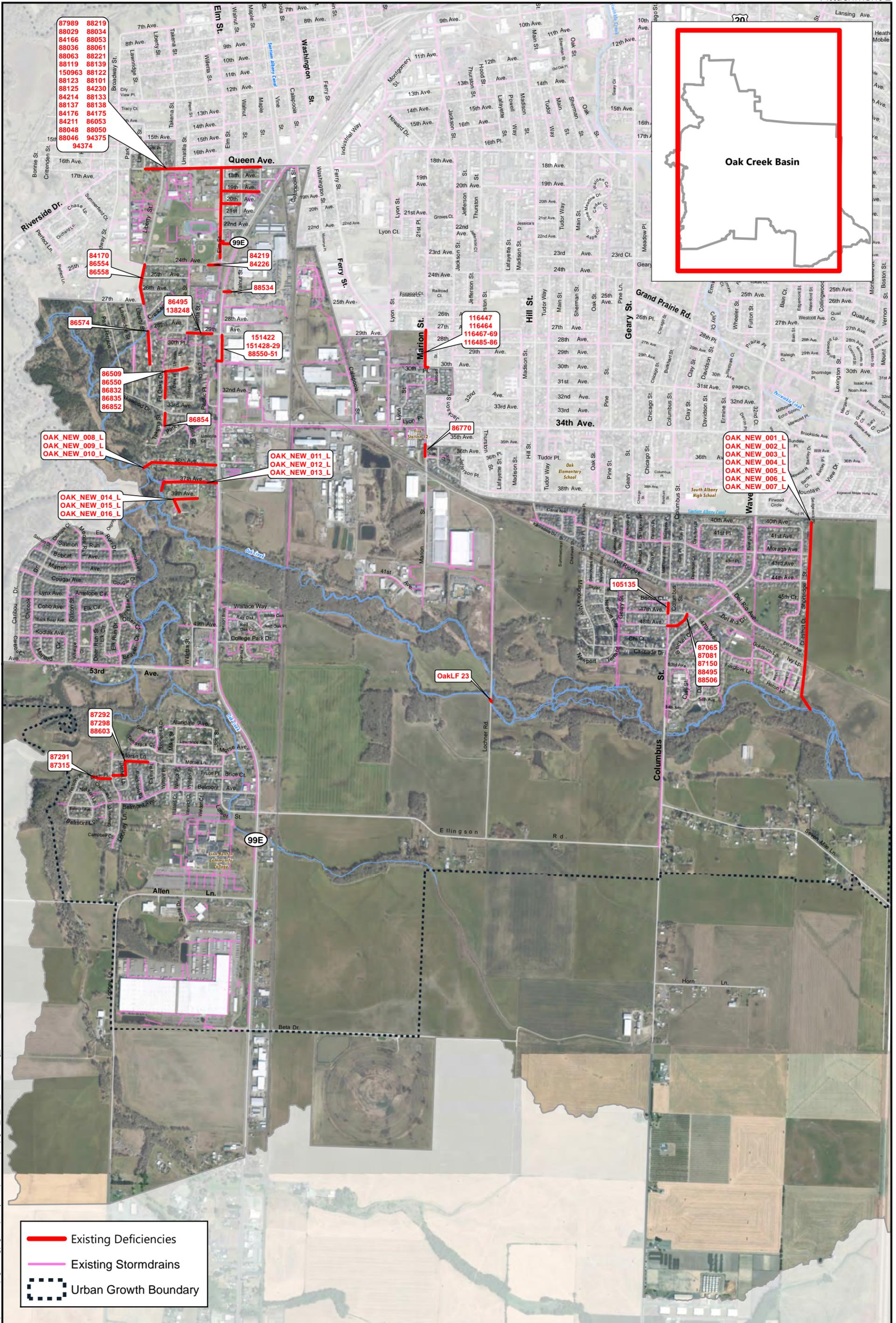
Cox Creek Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
92048	30920560HW	30922210X	Bridge/Culvert Collector	100-yr	216.25	225.00	215.95	225.00	59.00	0.51	2	10.75	10.75	16.13	11.27	12.11	12.77	13.60	5.66	5.12	4.68	4.24	6.18	5.72	5.34	4.97
92057	30920920HW	30920920PE	Bridge/Culvert Collector	100-yr	214.53	219.90	214.16	219.90	155.00	0.24	2	7.37	7.37	11.05	11.27	12.08	12.70	13.31	1.08	0.62	0.24	0.00	1.83	1.48	1.19	0.91
92059	30920910HW	30920910PE	Bridge/Culvert Collector	100-yr	214.01	219.75	213.90	219.20	47.00	0.23	2	7.74	7.74	10.94	11.30	12.10	12.73	13.34	1.68	1.33	1.04	0.76	1.62	1.34	1.11	0.89
92061	30920900HW	30920900PE	Bridge/Culvert Collector	100-yr	213.91	219.21	213.22	218.75	55.00	1.25	2	7.30	7.30	25.34	12.30	13.17	13.85	14.48	1.63	1.35	1.12	0.90	1.78	1.59	1.43	1.28
92063	30920890HW	30920890PE	Bridge/Culvert Collector	100-yr	213.62	218.50	212.89	218.76	70.00	1.04	2	6.88	6.88	23.10	12.31	13.18	13.85	14.48	1.54	1.34	1.19	1.03	2.45	2.35	2.27	2.19
92078	30920870HW	30920870PE	Bridge/Culvert Collector	100-yr	212.82	219.50	212.47	217.90	85.00	0.41	2.5	9.18	9.18	26.32	12.34	13.20	13.87	14.50	3.41	3.33	3.28	3.23	1.97	1.93	1.90	1.88
92085	30920880HW	30920880PE	Bridge/Culvert Collector	100-yr	213.20	219.07	212.89	219.60	55.00	0.56	2.5	8.37	8.37	30.79	12.32	13.19	13.86	14.49	2.76	2.66	2.58	2.51	3.50	3.42	3.38	3.33
151792	30912970MH	30910005MH	Bridge/Culvert Collector	100-yr	221.98	224.46	218.78	225.21	41.00	0.66	1	3.48	3.48	2.89	2.71	3.23	3.60	3.73	1.19	1.01	0.79	0.70	4.84	4.69	4.58	4.50
151793	30912970MH	30910005MH	Bridge/Culvert Collector	100-yr	221.98	224.46	218.78	225.21	41.00	0.66	1	3.48	3.48	2.89	2.71	3.23	3.60	3.73	1.19	1.01	0.79	0.70	4.84	4.69	4.58	4.50
85231	30811560CB	30810260MH	Collector	25-yr	219.85	223.12	219.69	223.47	6.70	2.39	1.75	5.02	5.02	24.49	7.48	8.91	10.05	10.64	1.13	0.88	0.65	0.52	1.51	1.25	1.02	0.90
85233	30811570CB	30811560CB	Collector	25-yr	220.37	223.39	219.85	223.12	156.83	0.33	1.75	4.77	4.77	9.12	7.47	8.91	10.05	10.64	1.08	0.66	0.29	0.11	1.13	0.88	0.65	0.52
85235	30821020MH	30821160MH	Collector	25-yr	214.50	220.17	214.02	219.91	213.69	0.22	1.25	6.92	6.92	3.06	2.89	3.46	3.90	4.15	1.65	0.00	0.00	0.00	1.80	0.07	0.00	0.00
85249	30810230MH	30811570CB	Collector	25-yr	220.30	223.57	220.37	223.39	76.19	0.35	1.75	5.02	5.02	9.43	7.46	8.90	10.06	10.64	1.10	0.60	0.16	0.00	1.08	0.66	0.29	0.11
85801	30541330MH	30540830MH	Collector	25-yr	213.16	216.72	212.52	215.40	25.92	2.47	1.25	4.81	4.81	10.15	6.81	7.02	7.26	7.47	1.02	0.95	0.86	0.74	0.00	0.00	0.00	0.00
85807	30540840MH	30541330MH	Collector	25-yr	213.41	217.12	213.16	216.72	63.00	0.40	1.25	4.96	4.96	4.07	5.96	6.03	6.13	6.20	0.89	0.81	0.70	0.57	1.02	0.95	0.86	0.74
85808	30540830MH	30540830MH	Collector	25-yr	212.52	215.40	208.86	216.92	325.40	0.42	1.25	4.13	4.13	4.21	6.52	6.60	6.68	6.79	0.00	0.00	0.00	0.00	5.68	5.46	5.27	5.08
85809	30540860MH	30540840MH	Collector	25-yr	215.35	219.24	213.41	217.12	429.20	0.45	1	4.89	4.89	2.40	3.33	3.33	3.35	3.35	0.00	0.00	0.00	0.00	0.89	0.81	0.70	0.57
85900	30811910MH	30811920MH	Collector	25-yr	211.85	218.00	211.25	215.82	137.07	0.38	1	7.15	7.15	2.19	1.76	2.09	2.35	2.60	3.73	2.06	1.59	1.40	1.88	0.34	0.00	0.00
85903	30811920MH	30811940MH	Collector	25-yr	211.25	215.82	210.60	216.58	367.99	0.16	1	5.57	5.57	1.43	1.77	2.10	2.40	2.54	1.88	0.34	0.00	0.00	3.52	2.31	1.91	1.69
85909	30430590MH	30430450ED	Collector	25-yr	211.81	215.37	206.26	222.00	164.59	3.37	1	4.56	4.56	6.54	3.87	4.56	5.03	4.87	1.67	0.90	0.00	0.00	8.45	8.41	8.39	8.37
87517	30430110MH	30430440T	Collector	25-yr	214.60	216.37	211.48	216.05	297.50	1.05	1	2.77	2.77	3.65	4.34	4.44	4.49	4.53	0.00	0.00	0.00	0.00	3.19	3.03	2.89	2.78
88835	30430400MH	30430390MH	Collector	25-yr	214.12	218.97	213.16	218.49	232.76	0.41	1.25	6.10	6.10	4.15	7.70	7.62	7.48	7.10	0.46	0.00	0.00	0.00	2.87	2.09	1.67	1.38
100062	30912901MH	30912901OF	Collector	25-yr	222.53	224.80	222.33	223.72	22.72	0.88	1	3.27	3.27	3.34	5.54	6.67	7.54	7.85	0.93	0.53	0.11	0.00	0.38	0.21	0.00	0.00
104862	30922430CI	Node3382	Collector	25-yr	225.71	227.67	225.42	227.72	32.00	0.28	1	2.96	2.96	1.75	2.16	2.27	2.30	2.42	0.00	0.00	0.00	0.00	0.18	0.09	0.01	0.00
107036	30810220MH	30810230MH	Collector	25-yr	220.97	225.20	220.30	223.57	101.89	0.69	2	6.23	6.23	18.75	7.46	8.89	10.07	11.22	2.67	2.08	1.59	1.34	1.10	0.60	0.16	0.00
143602	30430405MH	30430400MH	Collector	25-yr	214.37	219.24	214.12	218.97	59.65	0.42	1.5	6.37	6.37	6.80	7.75	7.71	7.60	7.39	0.45	0.02	0.00	0.00	0.46	0.00	0.00	0.00
143612	30430409CB	30430407CB	Collector	25-yr	216.37	219.10	214.79	219.93	373.61	0.42	1.5	4.23	4.23	6.83	4.92	5.03	5.13	5.20	0.00	0.00	0.00	0.00	1.05	0.66	0.49	0.34
143614	30430407CB	30430405MH	Collector	25-yr	214.79	219.93	214.37	219.24	116.24	0.36	1.5	6.64	6.64	6.31	4.92	5.03	5.13	5.20	1.05	0.66	0.49	0.34	0.45	0.02	0.00	0.00
143637	30430413MH	30430410MH	Collector	25-yr	211.75	218.95	210.51	220.16	260.03	0.42	1.25	8.45	8.45	4.20	5.86	6.99	7.22	7.07	2.10	0.40	0.00	0.00	5.38	4.51	4.00	3.67
143675	30430330CB	30430409CB	Collector	25-yr	217.26	219.65	216.37	219.10	185.97	0.48	1.25	3.64	3.64	4.47	4.77	4.79	4.79	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150947	30432560MH	30430590MH	Collector	25-yr	212.10	215.57	211.81	215.37	38.80	0.75	1.5	4.97	4.97	9.08	3.89	4.57	5.36	5.87	1.87	1.02	0.10	0.00	1.67	0.90	0.00	0.00
Cox d	30921040OF	30811000OF	Collector	25-yr	214.74	222.21	210.25	219.86	226.63	1.98	0	7.47	7.47	2073.50	19.71	21.91	23.53	25.12	6.28	6.24	6.21	6.19	7.46	7.03	5.99	5.35
Cox g	30920870PE	30921040OF	Collector	25-yr	212.47	217.90	214.74	222.21	34.72	-6.54	0	5.43	5.43	1789.33	12.34	13.20	13.87	14.50	1.97	1.93	1.90	1.88	6.28	6.24	6.21	6.19
Cox h	30920880PE	30920870HW	Collector	25-yr	212.89	219.60	212.82	219.50	145.14	0.05	0	6.71	6.71	286.77	12.33	13.19	13.86	14.50	3.50	3.42	3.38	3.33	3.41	3.33	3.28	3.23
Cox i	30920890PE	30920880HW	Collector	25-yr	212.89	218.76	213.20	219.07	146.41	-0.21	0	5.87	5.87	468.41	12.32	13.18	13.85	14.49	2.45	2.35	2.27	2.19	2.76	2.66	2.58	2.51
Cox j	30920900PE	30920890HW	Collector	25-yr	213.22	218.75	213.62	218.50	316.15	-0.13	0	5.53	5.53	176.60	12.30	13.17	13.84	14.47	1.78	1.59	1.43	1.28	1.54	1.34	1.19	1.03
Cox k	30920910PE	30920900HW	Collector	25-yr	213.90	219.20	213.91	219.21	105.18	-0.01	0	5.30	5.30	89.34	11.31	12.12	12.75	13.36	1.62	1.34	1.11	0.89	1.63	1.35	1.12	0.90
Cox l	30920920PE	30920910HW	Collector	25-yr	214.16	219.90	214.01	219.75	72.47	0.21	0	5.74	5.74	477.03	11.28	12.09	12.71	13.32	1.83	1.48	1.19	0.91	1.68	1.33	1.04	0.76
Cox m	30922210X	30920920HW	Collector	25-yr	215.95	225.00	214.53	219.90	163.14	0.87	0	9.05	9.05	935.60	11.26	12.08	12.71	13.49	6.18	5.72	5.34	4.97	1.08	0.62	0.24	0.00
Link3332	Node3382	Node3383	Collector	25-yr	225.42	227.72	224.87	227.72	39.19	0.00	0.833	3.13	3.13	1.45	2.15	2.27	2.30	2.30	0.18	0.09	0.01	0.00	0.61	0.48	0.38	0.31
Link3333	Node3383	Node3384	Collector	25-yr	224.87	227.72	224.65	227.72	50.00	0.00	0.833	3.68	3.68	1.44	2.15	2.28	2.30	2.30	0.61	0.48	0.38	0.31	1.15	0.97	0.85	0.71
Link3334	Node3384	30922440MH	Collector	25-yr	224.65	227.72	224.65	227.65	52.10	0.00	0.833	3.90	3.90	1.32	2.15	2.28	2.31	2.31	1.15	0.97	0.85	0.71	1.66	1.42	1.27	1.06
85325	Cox 18	30920240MH	Feeder	10-yr	214.05	218.83	213.64	220.30	192.26	0.16	2.5	7.28	7.28	16.47	0.66	0.89	1.18	1.40	0.22	0.19	0.19	0.18	1.69	1.66	1.66	1.65
85791	30530480MH	30532000T	Feeder	10-yr	214.08	217.71	213.51	216.59	93.07	0.61	1	4.63	4.63	2.78	2.89	3.45	3.82	3.86	0.53	0.23	0.00	0.00	0.01	0.00	0.00	0.00
86083	30440930MH	30440920MH	Feeder	10-yr	215.73	221.82	215.30	219.88	249.91	0.17	1.25	7.34														



North Albany Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
85874	43620360F1	43620360PE	Bridge/Culvert Trunk	100-yr	267.18	270.98	262.67	268.88	193.62	2.33	1.25	5.05	5.05	9.86	7.39	8.36	9.10	9.66	1.20	0.73	0.33	0.01	5.60	5.55	5.51	5.48
Culv_B_1	NA_CR_129	NA_CR_31	Bridge/Culvert Trunk	100-yr	200.60	211.00	200.11	210.00	19.00	2.58	3.33	13.73	13.73	131.38	30.74	32.23	33.48	34.85	1.93	1.47	1.09	0.97	0.95	0.49	0.12	0.00
Culv_C_1	NA_CR_855	NA_CR_851	Bridge/Culvert Trunk	100-yr	210.12	216.00	209.63	216.00	24.00	0.67	2	7.88	7.88	17.15	23.15	26.33	30.13	33.13	2.79	2.28	1.59	0.98	5.28	5.24	5.19	5.16
Culv_E_1	NA_CR_12	NA_CR_11	Bridge/Culvert Trunk	100-yr	236.33	240.84	236.00	239.54	10.00	8.30	1	5.51	5.51	9.53	9.73	10.11	10.21	10.26	0.00	0.00	0.00	0.00	2.22	2.20	2.20	2.20
Culv_E_2	NA_CR_14	NA_CR_13	Bridge/Culvert Trunk	100-yr	241.52	250.00	238.03	245.00	60.40	5.78	1	9.48	9.48	7.95	10.00	10.63	10.66	10.67	1.05	0.00	0.00	0.00	4.04	3.74	3.67	3.63
89977	40120440HW	40120150PE	Bridge/Culvert Collector	100-yr	203.37	205.20	202.73	204.50	46.79	1.37	1.75	3.58	3.58	17.21	3.06	3.91	5.14	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89982	40120140HW	40120140PE	Bridge/Culvert Collector	100-yr	204.07	205.50	203.51	204.80	30.19	1.86	1.25	2.68	2.68	8.17	3.06	3.91	5.15	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90501	43520080HW	43520080PE	Bridge/Culvert Collector	100-yr	280.36	282.83	279.30	281.63	52.00	2.00	1	3.47	3.47	4.68	5.40	5.40	5.40	5.40	0.08	0.08	0.08	0.08	1.35	1.35	1.35	1.35
90523	43510530HW	43510530PE	Bridge/Culvert Collector	100-yr	304.65	308.00	303.61	308.00	21.00	2.57	1	4.35	4.35	5.31	5.36	6.67	7.16	7.16	1.16	0.34	0.00	0.00	3.49	3.34	3.29	3.29
5884	43510390MH	43510400T	Collector	25-yr	271.60	277.57	270.65	277.74	47.68	2.00	1.25	7.22	7.22	9.14	7.56	7.57	7.58	7.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87637	43630460MH	43630480MH	Collector	25-yr	316.53	319.45	315.72	318.75	115.71	0.53	1	3.92	3.92	2.59	5.44	5.44	5.44	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87689	43630450MH	43630460MH	Collector	25-yr	317.48	325.11	316.53	319.45	153.88	0.49	1	8.63	8.63	2.49	5.95	6.87	7.02	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87700	43620040MH	43620350OF	Collector	25-yr	268.93	273.19	268.70	271.84	21.95	1.05	1	5.26	5.26	3.65	9.64	11.58	12.80	13.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87704	43620010MH	43620020MH	Collector	25-yr	257.86	263.46	255.30	262.07	135.80	1.74	1	6.60	6.60	4.70	5.84	5.89	5.92	5.93	0.00	0.00	0.00	0.00	2.06	2.06	2.06	2.06
87723	43620010T	43610400MH	Collector	25-yr	254.99	262.01	250.63	255.73	159.51	2.74	1	8.02	8.02	5.89	5.83	5.83	5.83	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87769	43610410MH	43610420ED	Collector	25-yr	245.20	252.50	242.75	251.47	106.97	2.29	1.25	8.55	8.55	9.78	6.91	6.97	7.01	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87776	43610390T	43610400MH	Collector	25-yr	250.96	255.85	250.63	255.73	16.90	0.45	1	5.89	5.89	2.45	4.45	4.46	4.45	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87777	43610400MH	43610410MH	Collector	25-yr	250.63	255.73	245.20	252.50	198.92	2.68	1.25	6.35	6.35	10.57	8.33	8.33	8.33	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87794	43610380MH	43610390T	Collector	25-yr	251.02	255.81	250.96	255.85	14.12	0.45	1	5.79	5.79	2.32	4.45	4.45	4.45	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87802	43610380T	43610380MH	Collector	25-yr	252.37	256.25	251.02	255.81	26.33	4.37	1	4.88	4.88	7.45	4.44	4.44	4.44	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87825	43540140MH	43540140T	Collector	25-yr	292.07	296.65	290.14	292.92	235.10	0.82	1.5	6.08	6.08	9.52	7.13	9.98	12.48	13.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87869	43510340X	43510360MH	Collector	25-yr	280.72	286.48	275.96	281.08	550.09	0.85	1	6.76	6.76	3.29	3.87	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87870	43510360MH	43510390MH	Collector	25-yr	275.96	281.08	271.60	277.57	248.36	1.23	1	6.12	6.12	3.95	3.85	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87871	43510400T	43510410MH	Collector	25-yr	270.65	277.74	269.04	277.11	445.94	0.59	1.25	8.34	8.34	4.96	7.56	7.57	7.58	7.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87880	43510640MH	43510650MH	Collector	25-yr	276.57	279.10	276.00	279.43	44.86	1.05	1.5	4.03	4.03	10.75	3.51	4.26	5.03	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87883	43510320MH	43510320T	Collector	25-yr	281.58	287.31	281.21	286.72	123.50	0.30	1	6.73	6.73	1.96	1.90	2.15	2.15	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87886	43510320T	43510310MH	Collector	25-yr	281.21	286.72	280.98	287.01	48.66	0.30	1	6.51	6.51	1.96	-1.41	-2.14	-2.72	-2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87887	43510310MH	43510340X	Collector	25-yr	280.98	287.01	280.72	286.48	31.02	0.85	1	7.03	7.03	3.26	4.15	4.27	4.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87895	43510460MH	43510450T	Collector	25-yr	275.40	279.44	275.00	278.96	109.17	0.37	1	5.04	5.04	2.16	3.48	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87909	43510650MH	43510650OF	Collector	25-yr	276.00	279.43	275.57	278.57	49.84	0.86	2	5.43	5.43	21.01	3.51	4.26	5.02	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87914	43510450T	43510440MH	Collector	25-yr	275.00	278.96	272.30	279.39	29.04	0.34	1	4.96	4.96	2.09	3.48	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87916	43620700MH	43510460MH	Collector	25-yr	275.99	279.64	275.40	279.44	281.75	0.19	1	4.65	4.65	1.53	3.49	3.49	3.49	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90222	43620130HW	43620130PE	Collector	25-yr	266.04	268.40	266.04	268.40	31.00	0.00	2	4.36	4.36	0.72	11.61	11.61	11.61	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90238	43620150HW	43620150PE	Collector	25-yr	258.52	261.39	258.03	261.39	32.50	1.51	2	4.87	4.87	27.78	11.61	11.61	11.61	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90240	43620160HW	43620160PE	Collector	25-yr	255.86	258.08	255.06	258.08	32.53	2.46	2	4.22	4.22	35.48	11.61	11.61	11.61	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90281	43620120HW	43620120PE	Collector	25-yr	269.78	272.10	269.17	272.10	50.42	1.21	1.75	4.07	4.07	17.43	11.61	11.61	11.61	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91852	33130010HW	33130010PE	Collector	25-yr	191.31	194.00	190.83	207.00	41.68	1.15	1.5	4.19	4.19	11.27	17.61	19.54	19.76	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94656	43610940MH	43610950MH	Collector	25-yr	242.62	247.89	240.54	245.57	152.64	1.30	1	6.27	6.27	4.06	6.04	6.05	6.04	6.07	0.00	0.00	0.00	0.00	1.77	1.64	1.51	1.36
94657	43610930MH	43610940MH	Collector	25-yr	249.99	256.75	242.62	247.89	251.96	2.87	1	7.76	7.76	6.03	6.90	6.90	6.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94658	43610920MH	43610930MH	Collector	25-yr	275.55	283.09	249.99	256.75	327.03	7.73	1	8.54	8.54	9.91	4.09	5.01	6.08	7.08	7.09	7.02	6.95	6.87	0.00	0.00	0.00	0.00
95446	43540140T	43540140Ta	Collector	25-yr	290.14	292.92	290.15	294.12	44.63	-0.02	1.5	4.28	4.28	1.57	7.13	9.98	11.02	11.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96843	43510860MH	43510860MH	Collector	25-yr	279.04	282.24	278.29	282.24	300.03	0.23	1.5	4.70	4.70	5.07	3.57	4.09	4.14	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96844	43510770MH	43510850MH	Collector	25-yr	279.65	282.00	279.04	282.24	20.85	2.54	1.5	3.85	3.85	16.75	3.57	4.12	4.21	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96849	43510900MH	43510880MH	Collector	25-yr	280.26	283.68	278.69	282.99	318.38	0.40	1.25	4.67	4.67	4.06	3.81	4.65	5.03	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96850	43510910MH	43510900MH	Collector	25-yr	281.47	285.41	280.26	283.68	280.99	0.41	1.25	5.19	5.19	4.15	2.62	3.16	3.66									

North Albany Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
118364	43611100MH	43611110MH	Feeder	10-yr	228.40	232.91	221.53	225.80	410.00	1.64	1	5.51	5.51	4.56	4.79	4.79	4.79	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122918	43611200MH	43611200T	Feeder	10-yr	222.10	228.53	222.02	227.48	20.05	0.40	1	7.43	7.43	2.25	1.35	1.37	1.38	1.39	1.03	1.02	1.02	1.01	0.00	0.00	0.00	0.00
122921	43621205T	43611200MH	Feeder	10-yr	222.64	227.55	222.10	228.53	49.07	0.47	1	5.91	5.91	2.44	1.33	1.35	1.36	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146239	42530553PE	42530553CB	Feeder	10-yr	362.69	364.00	356.34	357.89	72.38	8.57	0.667	1.98	1.98	3.54	1.57	1.90	2.24	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146241	42530607PE	42530607DI	Feeder	10-yr	335.77	336.64	319.22	323.31	333.21	4.97	0.667	1.54	1.54	2.70	0.74	0.89	1.03	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151073	43511080CB	43520075CB	Feeder	10-yr	283.05	287.41	281.65	287.29	365.75	0.36	1	5.36	5.36	2.15	1.03	1.05	1.07	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152297	43631630MH	43631630OF	Feeder	10-yr	336.50	339.72	334.17	337.18	37.49	4.72	1	4.22	4.22	7.74	2.10	2.62	3.26	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New Infrastructure																										
NA_NEW_001_L	NA_NEW_018	NA_NEW_017	Collector	25-yr																						
NA_NEW_002_L	NA_NEW_019	NA_NEW_018	Collector	25-yr																						
NA_NEW_003_L	NA_NEW_020	NA_NEW_019	Collector	25-yr																						
NA_NEW_004_L	NA_NEW_002	NA_NEW_001	Collector	25-yr																						
NA_NEW_005_L	NA_NEW_003	NA_NEW_002	Collector	25-yr																						
NA_NEW_006_L	NA_NEW_004	NA_NEW_003	Collector	25-yr																						
NA_NEW_007_L	NA_NEW_005	NA_NEW_004	Collector	25-yr																						
NA_NEW_008_L	NA_NEW_006	NA_NEW_005	Collector	25-yr																						
NA_NEW_009_L	NA_NEW_007	NA_NEW_006	Collector	25-yr																						
NA_NEW_010_L	NA_NEW_008	NA_NEW_007	Collector	25-yr																						
NA_NEW_011_L	NA_NEW_009	NA_NEW_007	Collector	25-yr																						
NA_NEW_012_L	NA_NEW_010	NA_NEW_009	Collector	25-yr																						
NA_NEW_013_L	NA_NEW_011	NA_NEW_010	Collector	25-yr																						
NA_NEW_014_L	NA_NEW_012	NA_NEW_011	Collector	25-yr																						
NA_NEW_015_L	NA_NEW_013	NA_NEW_009	Collector	25-yr																						
NA_NEW_016_L	NA_NEW_014	NA_NEW_013	Collector	25-yr																						
NA_NEW_017_L	NA_NEW_015	NA_NEW_014	Collector	25-yr																						
NA_NEW_018_L	NA_NEW_016	NA_NEW_015	Collector	25-yr																						
NA_NEW_019_L	NA_NEW_022	NA_NEW_021	Collector	25-yr																						
NA_NEW_020_L	NA_NEW_023	NA_NEW_022	Collector	25-yr																						
NA_NEW_021_L	NA_NEW_024	NA_NEW_023	Collector	25-yr																						
NA_NEW_022_L	NA_NEW_025	NA_NEW_023	Collector	25-yr																						

Table 7.3 North Albany Basin Existing Deficiencies



G:\Public Works\Engineering\Facility Plans\2021 SWMP\GIS\Figure\_74\_Oak\_Creek\_Existing\_Deficiencies\_11x17.mxd



0 0.125 0.25 0.5 Miles

Date: 3/21/2021

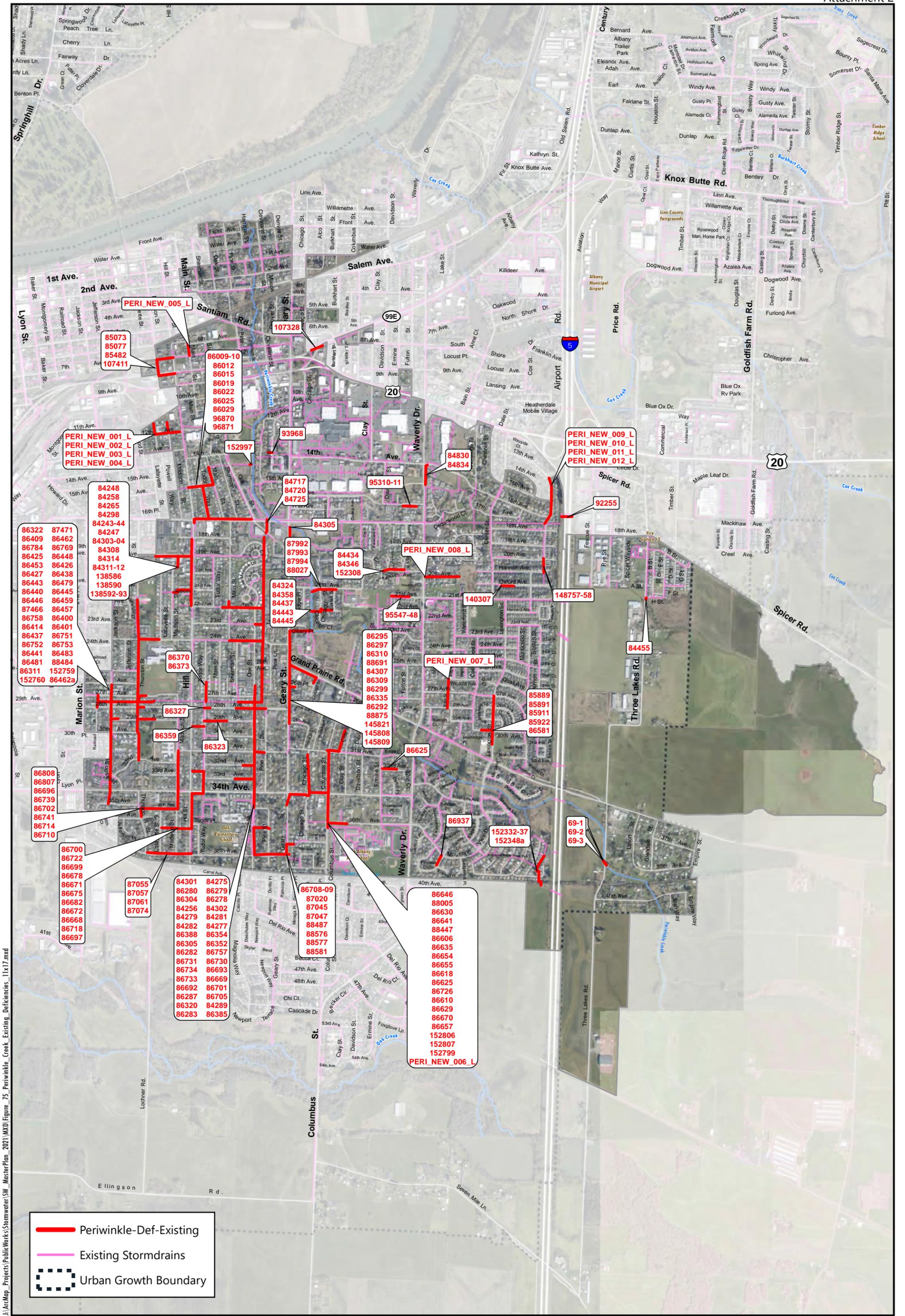
# Oak Creek Basin Existing Deficiencies

Figure 7.4

Oak Creek Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
OakLF 23	31942700PE	31942830HW	Bridge/Culvert Trunk	100-yr	211.66	220.70	214.24	223.10	74.61	-3.46	0	9.04	9.04	20734.13	493.57	808.03	1156.02	1581.95	3.43	2.40	1.59	0.90	5.84	4.81	4.00	3.31
84175	41310050MH	41310050CB	Collector	25-yr	208.89	214.34	208.82	214.02	94.73	0.07	2	7.45	7.45	6.15	9.16	8.99	8.87	8.78	0.92	0.90	0.85	0.78	0.73	0.69	0.65	0.58
84176	41310010CB	41310010MH	Collector	25-yr	209.30	213.76	209.11	213.41	14.87	1.01	2	6.46	6.46	22.72	5.09	5.50	5.81	6.09	0.34	0.34	0.34	0.34	0.00	0.00	0.00	0.00
84211	41310050CB	41310070MH	Collector	25-yr	208.82	214.02	208.69	213.36	165.11	0.08	2	7.20	7.20	6.35	9.16	8.99	8.86	8.78	0.73	0.69	0.65	0.58	0.26	0.21	0.16	0.10
84214	41310010MH	41310050MH	Collector	25-yr	209.11	213.41	208.89	214.34	272.97	0.08	2	6.30	6.30	6.42	4.66	4.53	4.49	-5.15	0.00	0.00	0.00	0.00	0.92	0.90	0.85	0.78
84219	41310110MH	41310580MH	Collector	25-yr	211.18	214.35	210.58	214.64	107.10	0.56	1	4.17	4.17	2.67	3.47	3.39	3.36	3.33	0.00	0.00	0.00	0.00	1.05	1.00	0.96	0.92
84226	41310580MH	41310090MH	Collector	25-yr	210.58	214.64	208.41	214.85	114.94	0.63	1	5.06	5.06	2.82	3.47	3.39	3.36	3.33	1.05	1.00	0.96	0.92	2.08	1.96	1.89	1.81
84230	41310070MH	41310080MH	Collector	25-yr	208.69	213.36	208.47	214.85	314.36	0.07	2	6.67	6.67	5.98	8.72	8.56	8.60	8.59	0.26	0.21	0.16	0.10	1.98	1.89	1.82	1.74
86053	41241440MH	41240840MH	Collector	25-yr	209.57	214.20	209.59	214.11	56.00	-0.04	2	6.63	6.63	4.28	3.13	3.39	3.61	3.81	0.60	0.57	0.54	0.51	0.52	0.49	0.47	0.44
86495	41310530MH	41310470MH	Collector	25-yr	210.97	213.85	210.16	213.98	270.59	0.30	0.833	3.71	3.71	1.20	2.27	2.27	2.27	2.27	0.00	0.00	0.00	0.00	2.75	2.65	2.55	2.44
86509	41340430CI	41340220CB	Collector	25-yr	212.27	214.28	211.80	214.50	124.81	0.38	0.833	2.84	2.84	1.25	0.95	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.48
86550	41340040CB	41340200MH	Collector	25-yr	211.79	213.95	209.05	214.45	265.42	1.03	0.833	2.99	2.99	2.06	0.94	0.94	0.94	0.94	0.01	0.01	0.01	0.01	1.06	1.05	1.05	1.05
86554	41320380MH	41320390MH	Collector	25-yr	213.63	216.47	211.11	216.42	331.68	0.16	1.25	4.09	4.09	2.58	4.39	4.56	4.67	4.78	0.89	0.77	0.68	0.59	4.38	4.30	4.20	3.42
86558	41320360MH	41320380MH	Collector	25-yr	214.51	216.50	213.63	216.47	176.51	0.50	1	2.99	2.99	2.52	2.65	2.65	2.65	2.66	0.00	0.00	0.00	0.00	0.89	0.77	0.68	0.59
86574	41340010MH	41310280MH	Collector	25-yr	210.40	214.44	206.15	213.70	655.29	0.29	1	5.04	5.04	1.90	2.65	3.14	3.20	3.20	1.41	0.18	0.00	0.00	5.50	5.26	5.09	4.94
86770	31840610MH	31840610CB	Collector	25-yr	221.71	226.90	220.53	226.06	233.64	0.42	1.25	6.44	6.44	4.18	7.24	7.23	7.25	7.25	0.00	0.00	0.00	0.00	1.99	1.99	1.99	1.99
86832	41340160CB	41340190CB	Collector	25-yr	212.10	215.90	211.08	213.50	445.82	0.18	0.833	4.63	4.63	0.86	1.52	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86835	41340190CB	41340200MH	Collector	25-yr	211.08	213.50	209.05	214.45	77.73	0.46	0.833	3.25	3.25	1.38	1.06	1.06	1.06	1.05	0.00	0.00	0.00	0.00	1.06	1.05	1.05	1.05
86852	41340220CB	41340040CB	Collector	25-yr	211.80	214.50	211.79	213.95	40.61	0.03	0.833	3.53	3.53	0.32	0.94	0.94	0.94	0.94	0.48	0.48	0.48	0.48	0.01	0.01	0.01	0.01
86854	41340120MH	41340110MH	Collector	25-yr	213.00	216.42	211.75	217.75	246.78	0.51	0.833	4.25	4.25	1.56	2.12	2.20	2.20	2.20	0.29	0.00	0.00	0.00	3.87	3.72	3.71	3.71
87065	32010040MH	32011020T	Collector	25-yr	232.32	236.12	232.27	236.02	13.57	0.37	1.25	5.05	5.05	3.92	3.35	3.93	4.38	4.83	0.06	0.05	0.04	0.03	0.00	0.00	0.00	0.00
87081	32011020T	32011010T	Collector	25-yr	232.27	236.02	232.11	236.36	43.77	0.37	1.25	5.00	5.00	3.91	2.77	2.74	2.78	2.75	0.00	0.00	0.00	0.00	0.41	0.40	0.40	0.40
87150	32010010MH	32020480MH	Collector	25-yr	231.26	236.38	230.36	238.31	194.00	0.40	1.25	6.37	6.37	4.07	2.75	2.73	2.74	2.75	0.83	0.78	0.76	0.74	3.07	2.98	2.96	2.92
87291	42520010CB	42520310OF	Collector	25-yr	211.08	213.88	210.59	215.50	122.52	0.40	1.5	4.30	4.30	6.17	6.77	7.15	7.44	7.71	1.04	0.83	0.64	0.48	2.67	2.46	2.28	2.13
87292	42520260CB	42520030CB	Collector	25-yr	215.57	218.78	213.11	216.36	254.78	0.95	1	4.21	4.21	3.22	4.21	4.22	4.21	4.21	0.00	0.00	0.00	0.00	1.60	1.44	1.31	1.11
87315	42520320MH	42520010CB	Collector	25-yr	212.29	216.10	211.08	213.88	238.09	0.40	1.25	5.06	5.06	3.81	5.41	5.55	5.65	5.72	1.87	1.68	1.54	1.32	1.04	0.83	0.64	0.48
88029	41241140MH	41241180MH	Collector	25-yr	214.51	216.00	213.16	216.00	269.25	0.50	1	2.49	2.49	2.52	1.64	1.61	1.61	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88034	41241100MH	41241140MH	Collector	25-yr	215.66	217.00	214.51	216.00	229.19	0.50	0.833	2.17	2.17	1.55	1.43	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88050	41241250MH	41240800MH	Collector	25-yr	210.81	213.64	210.00	214.42	382.12	0.15	0.833	3.66	3.66	0.84	1.20	1.32	1.30	1.28	0.00	0.00	0.00	0.00	0.75	0.70	0.66	0.62
88053	41241180MH	41241190T	Collector	25-yr	213.16	216.00	212.04	216.00	224.68	0.50	0.833	3.67	3.67	1.55	1.64	1.65	1.65	1.66	0.00	0.00	0.00	0.00	0.84	0.79	0.74	0.69
88061	41241200T	41240800MH	Collector	25-yr	211.54	215.10	210.00	214.42	307.10	0.50	0.833	4.39	4.39	1.55	1.65	1.65	1.66	1.66	0.33	0.29	0.25	0.21	0.75	0.70	0.66	0.62
88063	41241190T	41241200T	Collector	25-yr	212.04	216.00	211.54	215.10	99.08	0.50	0.833	4.79	4.79	1.55	1.64	1.65	1.65	1.66	0.84	0.79	0.74	0.69	0.33	0.29	0.25	0.21
88119	41240800MH	41240820MH	Collector	25-yr	210.00	214.42	209.95	214.05	213.88	0.02	2	6.42	6.42	3.46	3.12	3.39	3.60	3.81	0.75	0.70	0.66	0.62	0.42	0.38	0.34	0.31
88122	41240930MH	41240950MH	Collector	25-yr	209.45	213.69	209.34	213.86	111.12	0.10	2	6.24	6.24	7.12	3.75	4.12	4.41	4.71	0.14	0.12	0.10	0.08	0.34	0.32	0.31	0.29
88123	41240840MH	41240930MH	Collector	25-yr	209.59	214.11	209.45	213.69	134.14	0.24	2	6.52	6.52	11.05	3.75	4.12	4.41	4.71	0.52	0.49	0.47	0.44	0.14	0.12	0.10	0.08
88133	41240820MH	41241440MH	Collector	25-yr	209.95	214.05	209.57	214.20	188.94	0.11	2	6.10	6.10	7.54	3.12	3.39	3.60	3.81	0.42	0.38	0.34	0.31	0.60	0.57	0.54	0.51
88137	41240950MH	41241010CB	Collector	25-yr	209.34	213.86	209.38	213.90	103.08	0.06	2	6.52	6.52	5.46	5.09	5.50	5.81	6.09	0.34	0.32	0.31	0.29	0.43	0.42	0.42	0.41
88138	41241010CB	41310010CB	Collector	25-yr	209.38	213.90	209.30	213.76	99.19	0.06	2	6.52	6.52	5.56	5.09	5.50	5.81	6.09	0.43	0.42	0.42	0.41	0.34	0.34	0.34	0.34
88495	32010020MH	32010010MH	Collector	25-yr	231.88	236.48	231.26	236.38	181.51	0.45	1.25	5.85	5.85	4.34	2.74	2.74	2.74	2.75	0.63	0.61	0.61	0.60	0.83	0.78	0.76	0.74
88506	32011010T	32010020MH	Collector	25-yr	232.11	236.36	231.88	236.48	63.00	0.37	1.25	5.50	5.50	3.90	2.75	2.74	2.75	2.75	0.41	0.40	0.40	0.40	0.63	0.61	0.61	0.60
88534	41310670B	41310390MH	Collector	25-yr	210.56	214.63	208.63	217.45	134.60	0.54	1.5	5.57	5.57	7.74	13.68	14.25	14.26	14.19	0.18	0.00	0.00	0.00	5.06	4.79	4.67	4.56
88550	41310660CB	41310650CB	Collector	25-yr	212.89	216.67	212.65	217.11	80.00	0.30	1.5	5.28	5.28	5.75	5.73	5.73	5.75	5.73	0.00	0.00	0.00	0.00	0.67	0.65	0.64	0.64
88551	41310650CB	41310640MH	Collector	25-yr	212.65	217.11	212.09	216.97	43.73	1.28	1	5.46	5.46	4.03	5.73	5.73	5.73	5.72	0.67	0.65	0.64	0.64	1.59	1.49	1.45	1.42
105135	32020720MH	32020710MH	Collector	25-yr	231.73	238.00	231.28	238.47	203.99	0.19	1	7.27	7.27	1.56	2.46	2.85	2.87	2.89	0.73	0.00	0.00	0.00	2.13	1.69	1.67	1.66
116447	31840850MH	31840840MH	Collector	25-yr	218.97	225.00	218.52	225.00	55.00	0.71	0.833	6.86	6.86</													

Oak Creek Watershed																									
Existing Deficiencies																									
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node			
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.
New Infrastructure																									
OAK_NEW_001_L	OAK_NEW_001	OAK_NEW_002	Collector	25-yr																					
OAK_NEW_002_L	OAK_NEW_002	OAK_NEW_003	Collector	25-yr																					
OAK_NEW_003_L	OAK_NEW_003	OAK_NEW_004	Trunk	50-yr																					
OAK_NEW_004_L	OAK_NEW_004	OAK_NEW_005	Trunk	50-yr																					
OAK_NEW_005_L	OAK_NEW_005	OAK_NEW_006	Trunk	50-yr																					
OAK_NEW_006_L	OAK_NEW_006	OAK_NEW_007	Trunk	50-yr																					
OAK_NEW_007_L	OAK_NEW_007	Crk_Oak 81	Trunk	50-yr																					
OAK_NEW_008_L	OAK_NEW_008	Crk_Oak 21	Collector	25-yr																					
OAK_NEW_009_L	OAK_NEW_009	OAK_NEW_008	Collector	25-yr																					
OAK_NEW_010_L	OAK_NEW_010	OAK_NEW_009	Collector	25-yr																					
OAK_NEW_011_L	OAK_NEW_011	Crk_Oak 23	Collector	25-yr																					
OAK_NEW_012_L	OAK_NEW_012	OAK_NEW_011	Collector	25-yr																					
OAK_NEW_013_L	OAK_NEW_013	OAK_NEW_012	Collector	25-yr																					
OAK_NEW_014_L	OAK_NEW_014	4241052OF	Collector	25-yr																					
OAK_NEW_015_L	OAK_NEW_015	OAK_NEW_014	Collector	25-yr																					
OAK_NEW_016_L	OAK_NEW_016	OAK_NEW_014	Collector	25-yr																					

Table 7.4 Oak Creek Basin Existing Deficiencies



- Periwinkle-Def-Existing
- Existing Stormdrains
- Urban Growth Boundary

J:\ArcMap\_P\Projects\PublicWorks\Stormwater\SW\_MasterPlan\_2021\MXD\Figure\_75\_Periwinkle\_Creek\_Existing\_Deficiencies\_11x17.mxd



0 0.125 0.25 0.5 Miles

# Periwinkle Creek Basin Existing Deficiencies

Date: 3/21/2021

Figure 7.5

Periwinkle Creek Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
92255	30930260HW	30930260PE	Bridge/Culvert Trunk	100-yr	229.51	233.20	228.73	232.00	212.00	0.57	3	6.69	6.69	50.18	14.76	18.89	23.85	27.98	2.10	1.89	1.60	1.31	1.58	1.26	0.83	0.48
69-1	Crk_P_19	Crk_P_18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	3	9.85	9.85	33.80	47.68	50.99	51.59	51.86	0.89	0.34	0.22	0.00	2.46	1.70	1.43	1.28
69-2	Crk_P_19	Crk_P_18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	4	10.85	10.85	72.79	91.46	97.76	98.91	99.47	0.89	0.34	0.22	0.00	2.46	1.70	1.43	1.28
69-3	Crk_P_19	Crk_P_18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	3	9.85	9.85	33.80	47.68	50.99	51.59	51.86	0.89	0.34	0.22	0.00	2.46	1.70	1.43	1.28
84256	31720600MH	31720880MH	Trunk	50-yr	211.92	224.32	211.60	223.46	319.08	0.10	4.5	16.90	16.90	62.28	65.51	74.38	75.62	69.15	1.00	0.96	0.99	0.83	0.16	0.08	0.04	0.06
84275	31720590MH	30830210MH	Trunk	50-yr	211.60	223.59	210.63	221.09	1031.86	0.09	4.5	16.49	16.49	60.29	101.06	102.30	102.96	101.05	1.11	0.38	0.76	0.20	1.27	1.02	0.98	0.74
84302	30830210MH	30830090MH	Trunk	50-yr	210.63	221.09	210.18	220.39	376.76	0.12	4.5	14.96	14.96	67.96	121.37	123.96	122.79	123.26	1.27	1.02	0.98	0.74	2.03	1.80	1.64	0.91
84717	30830510MH	30830100CB	Trunk	50-yr	210.08	218.22	209.91	218.10	164.29	0.10	4.5	12.64	12.64	63.26	123.29	124.81	125.09	124.92	0.42	0.14	0.00	0.00	0.96	0.61	0.30	0.23
84720	30830100CB	30830110CB	Trunk	50-yr	209.91	218.10	209.85	218.63	56.93	0.11	4.5	12.69	12.69	63.84	123.43	125.01	125.17	124.94	0.96	0.61	0.30	0.23	1.71	1.35	1.09	0.98
84725	30830520MH	30830510MH	Trunk	50-yr	210.13	219.48	210.08	218.22	44.47	0.11	4.5	13.85	13.85	65.94	123.00	125.01	124.87	124.89	1.51	1.24	1.08	1.06	0.42	0.14	0.00	0.00
86278	31720240MH	31720230MH	Trunk	50-yr	213.19	224.26	212.67	224.00	401.04	0.13	4.5	15.57	15.57	70.81	56.57	59.89	61.76	58.54	0.74	0.55	0.56	0.39	0.49	0.36	0.38	0.13
86279	31720230MH	31720220MH	Trunk	50-yr	212.67	224.00	212.25	224.21	429.77	0.09	4.5	15.83	15.83	59.24	56.73	61.12	64.09	59.55	0.49	0.36	0.38	0.13	0.80	0.72	0.72	0.54
86280	31720220MH	31720600MH	Trunk	50-yr	212.25	224.21	211.92	224.32	329.43	0.10	4.5	16.46	16.46	62.24	58.08	66.16	65.71	62.23	0.80	0.72	0.72	0.54	1.00	0.96	0.99	0.83
86304	31720350MH	31720240MH	Trunk	50-yr	213.51	223.80	213.19	224.26	399.36	0.08	4.5	14.79	14.79	55.67	56.83	59.23	59.11	58.42	0.25	0.04	0.00	0.00	0.74	0.55	0.56	0.39
86305	31720300MH	31720350MH	Trunk	50-yr	213.63	224.01	213.51	223.80	149.45	0.08	4.5	14.88	14.88	55.72	54.61	57.55	58.82	57.78	0.40	0.24	0.16	0.14	0.25	0.04	0.00	0.00
86320	31720310MH	31720300MH	Trunk	50-yr	215.50	224.38	213.63	224.01	123.66	0.40	1.75	10.63	10.63	10.08	14.83	13.83	14.38	14.41	0.58	0.40	0.20	0.15	0.40	0.24	0.16	0.14
86352	31720170MH	31720300MH	Trunk	50-yr	214.47	225.28	213.63	224.01	320.67	0.11	4	14.81	14.81	46.77	41.99	42.45	43.73	40.86	1.53	1.36	1.27	1.23	0.40	0.24	0.16	0.14
86409	31810030MH	31810040MH	Trunk	50-yr	218.10	225.40	218.05	228.35	43.05	0.12	2.25	9.55	9.55	10.55	21.35	19.43	18.05	17.97	0.44	0.27	0.20	0.16	3.45	3.28	3.21	3.17
86462	31810510MH	31810515MH	Trunk	50-yr	218.55	225.60	218.52	225.58	22.00	0.16	2.25	9.30	9.30	11.44	20.07	17.77	16.20	16.02	0.16	0.00	0.00	0.00	0.16	0.00	0.00	0.00
86692	31730180MH	31730150MH	Trunk	50-yr	218.74	223.56	217.42	223.65	292.24	0.45	1.75	6.57	6.57	10.65	10.93	11.51	11.77	11.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86701	31730150MH	31730150MH	Trunk	50-yr	217.42	223.65	216.52	224.47	290.90	0.31	1.75	7.98	7.98	8.81	10.98	11.52	11.77	12.51	0.00	0.00	0.00	0.00	0.50	0.26	0.10	0.00
86705	31720320MH	31720310MH	Trunk	50-yr	216.52	224.47	215.50	224.38	261.21	0.39	1.75	9.70	9.70	9.90	11.73	11.85	12.14	12.89	0.50	0.26	0.10	0.00	0.58	0.40	0.20	0.15
86733	31730200MH	31730180MH	Trunk	50-yr	219.53	226.04	218.74	223.56	274.43	0.29	1.5	8.01	8.01	5.64	9.97	10.06	10.24	10.36	0.55	0.32	0.15	0.00	0.00	0.00	0.00	0.00
86734	31730250MH	31730200MH	Trunk	50-yr	220.61	227.20	219.53	226.04	270.19	0.40	1.5	8.09	8.09	6.64	8.00	8.10	7.85	7.71	0.86	0.69	0.55	0.38	0.55	0.32	0.15	0.00
152332	32120050MH	31632080MH	Trunk	50-yr	230.36	238.49	230.27	237.11	87.71	0.10	2	10.13	10.13	7.25	14.23	16.49	17.83	18.53	3.99	2.69	1.84	1.38	2.95	1.76	0.99	0.57
152333	32120040MH	32120050MH	Trunk	50-yr	230.40	237.50	230.36	238.49	42.99	0.10	2	9.10	9.10	6.90	14.23	16.50	17.83	18.53	2.83	1.47	0.59	0.11	3.99	2.69	1.84	1.38
152334	32120030CB	32120040MH	Trunk	50-yr	230.50	236.46	230.40	237.50	101.64	0.10	2	7.96	7.96	7.10	14.23	16.50	17.83	18.53	1.39	0.00	0.00	0.00	2.83	1.47	0.59	0.11
152335	32120020MH	32120030CB	Trunk	50-yr	230.60	238.52	230.50	236.46	102.94	0.10	2	9.92	9.92	7.05	9.29	13.22	15.51	17.26	3.33	1.70	0.53	0.00	1.39	0.00	0.00	0.00
152336	32120010MH	32120020MH	Trunk	50-yr	230.65	238.10	230.60	238.52	49.48	0.10	2	9.45	9.45	7.19	9.28	13.22	15.51	19.44	2.85	1.13	0.00	0.00	3.33	1.70	0.53	0.00
152337	Crk_P_o	32120010MH	Trunk	50-yr	235.12	239.47	230.65	238.10	66.00	0.73	2	6.35	6.35	19.29	9.28	13.12	15.77	19.80	2.74	2.26	0.87	0.00	2.85	1.13	0.00	0.00
152348a	31632080MH	T1	Trunk	50-yr	230.27	237.11	230.02	236.34	254.13	0.10	2	8.84	8.84	7.10	14.23	16.49	17.83	18.53	2.95	1.76	0.99	0.57	3.17	2.32	1.77	1.47
86462a	31810515MH	31810030MH	Trunk	50-yr	218.52	225.58	218.10	225.40	263.98	0.16	2.25	9.31	9.31	12.35	21.41	19.53	18.14	17.97	0.16	0.00	0.00	0.00	0.44	0.27	0.20	0.16
84243	30740090T	30740100MH	Collector	25-yr	223.22	227.75	220.98	228.91	47.64	0.63	0.667	5.20	5.20	0.96	1.40	1.36	1.60	1.49	0.76	0.42	0.15	0.00	2.26	1.90	1.62	1.43
84244	30740150MH	30740100MH	Collector	25-yr	221.90	229.00	220.98	228.91	271.02	0.32	1.5	8.60	8.60	5.99	8.65	8.31	7.63	7.62	1.29	0.97	0.73	0.51	2.26	1.90	1.62	1.43
84247	30740110MH	30740100MH	Collector	25-yr	222.00	229.80	220.98	228.91	316.45	0.45	1	8.80	8.80	2.40	2.93	2.93	3.02	3.00	1.46	0.90	0.58	0.49	2.26	1.90	1.62	1.43
84248	30740170MH	30740160MH	Collector	25-yr	223.33	227.80	222.73	228.00	132.98	0.45	1	5.47	5.47	2.39	2.27	3.42	3.63	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84258	30740200MH	30740150MH	Collector	25-yr	223.00	226.91	221.90	229.00	448.36	0.25	1.5	5.41	5.41	5.20	4.32	3.53	3.42	3.51	0.00	0.00	0.00	0.00	1.29	0.97	0.73	0.51
84265	30740160MH	30740150MH	Collector	25-yr	222.73	228.00	221.90	229.00	217.06	0.29	1	6.27	6.27	1.90	2.28	3.43	3.64	3.66	0.00	0.00	0.00	0.00	1.29	0.97	0.73	0.51
84277	31720730MH	31720660MH	Collector	25-yr	220.50	226.00	218.10	222.85	539.85	0.41	1.25	6.75	6.75	4.12	5.43	4.95	5.94	5.47	0.67	0.56	0.46	0.41	0.00	0.00	0.00	0.00
84279	31720710MH	31720730MH	Collector	25-yr	224.17	227.50	220.50	226.00	125.09	0.42	1	4.33	4.33	2.30	1.93	2.15	2.47	2.65	1.87	1.63	1.41	1.26	0.67	0.56	0.46	0.41
84281	31720740MH	31720730MH	Collector	25-yr	221.91	226.00	220.50	226.00	121.00	1.00	1	5.09	5.09	3.56	3.36	3.12	3.50	3.29	0.00	0.00	0.00	0.00	0.67	0.56	0.46	0.41
84282	31720660MH	31720590MH	Collector	25-yr	218.10	222.85	211.60	223.59	146.56	0.30	1.25	6.00	6.00	3.54	5.74	5.69	6.20	6.28	0.00	0.00	0.00	0.00	1.11	0.38	0.76	0.20
84298	30740130MH	30740090T	Collector	25-yr	225.00	228.95	223.22	227.75	295.60	0.60	0.667	4.62	4.62	0.94	1.48	1.45	1.31	1.47	0.00	0.00	0.00	0.00	0.76	0.42	0.15	0.00
84301	31720610MH	31720600MH	Collector	25-yr	218.21	223.55	211.92	224.32	87.89	7.16	0.833	6.17	6.17	5.86	3.03	3.02	3.83	3.36	0.00	0.00	0.00	0.00	1.00	0.96	0.99	0.83

Periwinkle Creek Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
86297	31720460CB	31720455MH	Collector	25-yr	220.11	223.68	219.86	223.28	91.74	0.15	2	5.57	5.57	8.84	4.98	5.92	6.91	8.01	0.72	0.38	0.31	0.28	0.35	0.02	0.00	0.00
86299	31720410CB	31720400MH	Collector	25-yr	219.40	223.30	218.73	224.00	50.14	1.34	2	5.90	5.90	26.15	5.46	6.84	6.87	7.20	0.59	0.23	0.05	0.02	1.32	0.95	0.76	0.72
86309	31720450CB	31720440CB	Collector	25-yr	217.76	223.64	216.82	223.40	359.25	0.26	2	7.88	7.88	11.57	12.28	12.22	12.19	12.11	1.16	0.71	0.46	0.43	1.74	0.97	0.49	0.47
86310	31720400MH	31720450CB	Collector	25-yr	218.73	224.00	217.76	223.64	75.31	1.29	2	7.27	7.27	25.67	12.28	12.23	12.20	12.12	1.32	0.95	0.76	0.72	1.16	0.71	0.46	0.43
86322	31810690CB	31810650MH	Collector	25-yr	224.60	227.95	224.35	227.94	33.88	0.74	1.25	4.60	4.60	5.55	2.51	2.49	2.44	2.44	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
86323	31720140MH	31720010MH	Collector	25-yr	221.50	225.50	217.44	226.80	450.86	0.28	0.833	4.83	4.83	1.16	1.68	1.70	1.63	1.67	0.00	0.00	0.00	0.00	2.84	2.61	2.53	2.48
86327	31720030MH	31720020MH	Collector	25-yr	221.00	225.61	217.03	226.43	117.17	0.30	0.833	5.44	5.44	1.20	2.36	2.67	2.91	2.79	0.46	0.00	0.00	0.00	2.44	2.22	2.21	2.10
86335	31720440CB	31720580MH	Collector	25-yr	216.82	223.40	216.14	222.67	324.85	0.21	2	8.58	8.58	10.35	12.27	12.21	12.17	12.10	1.74	0.97	0.49	0.47	1.45	0.61	0.00	0.00
86354	31720250MH	31720290MH	Collector	25-yr	219.12	222.57	217.66	223.73	254.02	0.57	0.833	4.28	4.28	1.66	2.72	2.81	2.77	2.82	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
86359	31840030MH	31730010MH	Collector	25-yr	222.00	223.54	217.59	226.52	233.89	0.41	0.833	2.37	2.37	1.39	1.59	1.60	1.17	-1.27	0.00	0.00	0.00	0.00	2.55	2.33	2.23	2.20
86385	31720200MH	31720220MH	Collector	25-yr	217.07	223.14	212.25	224.21	163.24	0.45	1.25	7.32	7.32	4.32	2.71	2.79	3.77	3.28	0.00	0.00	0.00	0.00	0.80	0.72	0.72	0.54
86388	31720110MH	31720200MH	Collector	25-yr	218.08	228.52	217.07	223.14	505.34	0.20	1.25	11.69	11.69	2.89	2.33	2.93	3.26	3.24	5.15	4.90	4.73	4.51	0.00	0.00	0.00	0.00
86400	31810410MH	31810480MH	Collector	25-yr	220.33	226.76	219.49	225.18	269.28	0.31	2	8.43	8.43	12.64	3.67	3.87	3.69	3.62	1.28	1.10	1.06	1.03	0.00	0.00	0.00	0.00
86425	31810480MH	31810510MH	Collector	25-yr	219.49	225.18	218.55	225.60	526.66	0.12	2	7.69	7.69	7.89	10.12	10.30	10.73	10.43	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
86426	31810320MH	31810360MH	Collector	25-yr	220.59	225.54	220.38	225.70	233.66	0.09	1.25	6.20	6.20	1.94	4.99	5.13	5.69	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86440	31840390MH	31810320MH	Collector	25-yr	221.17	226.73	220.59	225.54	283.04	0.20	1.25	6.81	6.81	2.92	4.68	4.79	4.87	4.94	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86441	31810650MH	31810640MH	Collector	25-yr	224.35	227.94	223.13	227.00	334.75	0.36	1.25	4.84	4.84	3.90	3.44	3.45	3.47	3.47	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
86443	31810500MH	31810510MH	Collector	25-yr	219.69	226.92	218.55	225.60	107.81	0.13	1.25	8.48	8.48	2.33	4.89	4.94	4.99	5.04	0.98	0.76	0.73	0.72	0.16	0.00	0.00	0.00
86445	31810340MH	31810500MH	Collector	25-yr	219.92	227.08	219.69	226.92	237.55	0.08	1.25	8.41	8.41	1.87	3.62	3.62	3.79	3.68	0.62	0.43	0.38	0.37	0.98	0.76	0.73	0.72
86446	31810350MH	31810340MH	Collector	25-yr	219.97	226.71	219.92	227.08	47.21	0.11	1.25	7.99	7.99	2.10	1.90	1.90	2.00	1.88	0.22	0.04	0.00	0.00	0.62	0.43	0.38	0.37
86448	31810470MH	31810480MH	Collector	25-yr	220.34	224.76	219.49	225.18	114.60	0.30	1.25	5.67	5.67	3.52	4.22	4.51	4.58	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86453	31810360MH	31810480MH	Collector	25-yr	220.38	225.70	219.49	225.18	110.65	0.13	1.25	6.57	6.57	2.30	5.78	5.58	6.11	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86457	31840420MH	31840410MH	Collector	25-yr	220.50	228.40	220.32	227.50	56.77	0.14	1.25	9.15	9.15	2.42	1.89	1.90	1.93	1.86	1.74	1.60	1.53	1.51	0.88	0.73	0.67	0.65
86459	31840410MH	31810350MH	Collector	25-yr	220.32	227.50	219.97	226.71	201.76	0.17	1.25	8.43	8.43	2.69	1.89	1.90	1.96	1.87	0.88	0.73	0.67	0.65	0.22	0.04	0.00	0.00
86479	31810580MH	31810510MH	Collector	25-yr	221.16	226.69	218.55	225.60	391.32	0.41	1.25	6.78	6.78	4.14	4.92	4.24	3.90	3.94	0.37	0.29	0.25	0.23	0.16	0.00	0.00	0.00
86481	31810630MH	31810580MH	Collector	25-yr	221.98	227.46	221.16	226.69	244.95	0.33	1.25	6.73	6.73	3.74	4.91	4.45	4.01	3.96	0.57	0.53	0.50	0.47	0.37	0.29	0.25	0.23
86483	31810640MH	31810630MH	Collector	25-yr	223.13	227.00	221.98	227.46	276.79	0.43	1.25	5.12	5.12	4.22	3.82	3.60	3.40	3.27	0.00	0.00	0.00	0.00	0.57	0.53	0.50	0.47
86605	31740780CB	31740120CB	Collector	25-yr	227.34	229.61	226.74	229.93	284.77	0.21	1	3.27	3.27	1.64	2.00	2.36	2.70	3.04	1.22	0.88	0.45	0.00	2.52	2.45	2.40	2.34
86606	31730610MH	31730600MH	Collector	25-yr	228.12	232.34	227.87	232.47	42.96	0.00	1.25	5.47	5.47	0.20	4.05	4.17	4.25	4.26	0.67	0.33	0.20	0.10	0.75	0.39	0.29	0.21
86610	31730560CB	31730570CB	Collector	25-yr	228.88	231.05	228.60	231.03	39.19	0.71	1	3.17	3.17	3.01	3.07	3.14	3.19	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86618	31740030MH	31740010CB	Collector	25-yr	224.76	228.50	224.32	229.38	435.64	0.10	2	5.74	5.74	7.19	10.32	10.75	10.78	10.26	0.13	0.00	0.00	0.00	1.90	1.74	1.59	1.33
86625	31730570CB	31730550MH	Collector	25-yr	228.60	231.03	228.50	231.04	63.31	0.13	1	3.43	3.43	1.27	3.45	3.58	3.59	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86629	31730750B	31730560CB	Collector	25-yr	228.96	231.46	228.88	231.05	31.93	0.20	0.833	3.33	3.33	0.95	1.62	2.01	2.04	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86630	31731180MH	31731190MH	Collector	25-yr	228.91	233.82	228.10	233.03	480.00	0.15	2	6.91	6.91	8.70	9.45	10.63	10.70	10.71	1.15	0.65	0.63	0.62	1.19	0.81	0.72	0.65
86635	31730600MH	31730600CB	Collector	25-yr	227.87	232.47	227.75	232.64	20.27	0.59	1.5	6.10	6.10	8.08	7.19	7.43	7.56	7.67	0.75	0.39	0.29	0.21	1.01	0.66	0.56	0.48
86641	31730620MH	31731180MH	Collector	25-yr	229.23	233.86	228.91	233.82	51.20	0.29	2	6.63	6.63	12.24	9.47	10.63	10.71	10.72	1.10	0.58	0.57	0.56	1.15	0.65	0.63	0.62
86646	31731190MH	31730600MH	Collector	25-yr	228.10	233.03	227.87	232.47	71.10	0.20	2	6.93	6.93	5.37	9.44	10.63	10.71	10.72	1.19	0.81	0.72	0.65	0.75	0.39	0.29	0.21
86654	31730600CB	31730760T	Collector	25-yr	227.75	232.64	226.18	229.19	568.50	0.27	1.5	6.39	6.39	5.45	7.19	7.43	7.56	7.67	1.01	0.66	0.56	0.48	0.00	0.00	0.00	0.00
86655	31730760T	31730780MH	Collector	25-yr	226.18	229.19	225.53	229.75	256.55	0.25	1.5	4.51	4.51	5.29	7.19	7.30	7.36	7.40	0.00	0.00	0.00	0.00	1.11	0.96	0.86	0.74
86657	31730780CB	31730780MH	Collector	25-yr	227.89	232.92	225.53	229.75	36.42	1.00	1	6.03	6.03	3.54	1.49	1.77	2.02	2.29	4.25	4.06	3.92	3.76	1.11	0.96	0.86	0.74
86668	31840240CB	31840250CB	Collector	25-yr	222.20	224.65	222.25	227.30	50.15	-0.10	1.25	3.70	3.70	2.04	-1.43	1.38	1.51	1.57	0.00	0.00	0.00	0.00	2.59	2.65	2.62	2.59
86669	31730300MH	31730180MH	Collector	25-yr	221.74	224.72	218.74	223.56	199.02	0.50	1	3.98	3.98	2.53	2.17	2.25	2.19	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86671	31840830CB	31730100MH	Collector	25-yr	221.14	226.54	220.80	224.35	224.54	0.15	2	7.40	7.40	8.80	5.56	5.45	5.20	5.02	2.23	2.02	2.21	2.51	0.37	0.44	0.37	0.40
86672	31840220CB	31840240CB	Collector	25-yr	222.57	224.65	222.20	224.65	230.64	0.16	1.25	3.33	3.33	2.59	1.07	1.21	1.25	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86675	31840200CB	31840210CB	Collector	25-yr	223.20	225.73	222.64	226.30	275.21	0.20	1	3.53	3.53	1.61	1.06	1.16	1.3									

Periwinkle Creek Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
86808	31840700MH	31840170MH	Collector	25-yr	223.57	228.53	222.11	226.54	734.96	0.20	1	5.96	5.96	1.59	2.63	2.61	2.63	2.69	0.05	0.00	0.00	0.00	0.00	0.00	0.38	0.27
86937	31740420CB	31740480CB	Collector	25-yr	230.63	232.55	229.97	233.41	216.62	0.31	1.25	3.17	3.17	3.57	2.67	3.08	3.11	3.08	0.86	0.00	0.00	0.00	2.06	1.32	1.18	0.98
87020	31730450MH	31730290MH	Collector	25-yr	225.11	231.14	223.03	231.22	542.18	0.42	1	7.03	7.03	2.32	2.78	2.87	2.77	2.77	0.00	0.00	0.00	0.00	2.69	2.58	2.43	2.24
87045	31730500MH	31730491CB	Collector	25-yr	229.32	234.00	228.19	232.29	141.54	0.30	0.833	5.51	5.51	1.19	1.29	1.52	1.74	2.00	1.24	1.05	0.85	0.57	0.00	0.00	0.00	0.00
87047	31730491CB	31730500T	Collector	25-yr	228.19	232.29	227.80	231.68	214.41	0.18	0.833	4.93	4.93	0.93	1.23	1.28	1.27	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87055	31840320CB	31840340CB	Collector	25-yr	223.47	225.72	223.26	225.73	225.35	0.09	1	3.25	3.25	1.09	1.83	1.87	1.88	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87057	31840340CB	31840300CB	Collector	25-yr	223.26	225.73	223.16	225.56	64.59	0.16	1	3.47	3.47	1.40	1.82	1.86	1.84	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87061	31840300CB	31840280CB	Collector	25-yr	223.16	225.56	222.67	226.18	320.91	0.16	1	3.40	3.40	1.43	1.98	2.02	2.07	2.08	0.00	0.00	0.00	0.00	0.08	0.13	0.32	0.23
87074	31840280CB	31840260CB	Collector	25-yr	222.67	226.18	222.27	226.93	265.35	0.09	1	4.51	4.51	1.07	2.78	2.83	2.73	2.52	0.08	0.13	0.32	0.23	1.95	1.70	1.97	2.11
87466	31810740T	31810750MH	Collector	25-yr	227.65	230.00	225.60	228.28	410.32	0.50	0.833	3.18	3.18	1.55	1.21	1.43	1.43	1.43	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87471	31810750MH	31810690CB	Collector	25-yr	225.60	228.28	224.60	227.95	341.74	0.29	0.833	3.51	3.51	1.18	1.03	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87992	30830260CB	30830760OF	Collector	25-yr	218.51	222.41	214.50	224.90	144.29	1.39	1	4.90	4.90	4.21	3.19	3.23	3.18	3.10	1.27	0.43	0.00	0.00	3.90	3.08	2.41	1.89
87993	30830270CB	30830260CB	Collector	25-yr	218.72	222.74	218.51	222.41	52.28	0.40	1	5.02	5.02	2.26	3.20	3.23	3.18	3.10	1.46	0.69	0.21	0.21	1.27	0.43	0.00	0.00
87994	30830280CB	30830270CB	Collector	25-yr	219.60	223.05	218.72	222.74	231.14	0.38	1	4.45	4.45	2.20	3.21	3.24	3.18	3.12	0.00	0.00	0.00	0.00	1.46	0.69	0.21	0.21
88005	31730550MH	31730610MH	Collector	25-yr	228.50	231.04	228.12	232.34	337.62	0.11	1.5	4.04	4.04	3.52	4.05	4.17	4.25	4.26	0.00	0.00	0.00	0.00	0.67	0.33	0.20	0.10
88027	30830290CB	30830280CB	Collector	25-yr	220.07	232.38	219.60	232.05	58.04	0.48	1	4.31	4.31	2.47	1.89	2.25	2.56	2.73	0.17	0.10	0.04	0.00	0.00	0.00	0.00	0.00
88447	31730780MH	31740030MH	Collector	25-yr	225.53	229.75	224.76	228.50	198.00	0.34	2	6.22	6.22	13.26	8.77	8.90	8.76	8.68	1.11	0.96	0.86	0.74	0.13	0.00	0.00	0.00
88484	31810200MH	31810650MH	Collector	25-yr	224.96	229.62	224.35	227.94	421.76	0.14	1.25	5.91	5.91	2.46	1.74	2.05	2.34	2.71	1.36	1.27	1.14	0.95	0.01	0.01	0.00	0.00
88577	31730500T	31730470MH	Collector	25-yr	227.80	231.68	226.13	232.25	332.60	0.50	1	4.88	4.88	2.52	2.33	2.40	2.25	2.22	0.00	0.00	0.00	0.00	0.61	0.45	0.30	0.16
88581	31730470MH	31730450MH	Collector	25-yr	226.13	232.25	225.11	231.14	294.43	0.35	1	7.12	7.12	2.10	2.33	2.42	2.26	2.21	0.61	0.45	0.30	0.16	0.00	0.00	0.00	0.00
88691	31720460MH	31720400MH	Collector	25-yr	222.20	225.09	218.73	224.00	589.34	0.44	1.25	4.14	4.14	4.27	4.69	4.64	4.57	4.47	0.37	0.32	0.25	0.12	1.32	0.95	0.76	0.72
88875	31720500CB	31720460MH	Collector	25-yr	222.97	224.76	222.20	225.09	128.90	0.44	1	2.79	2.79	2.37	2.73	2.78	2.50	2.33	0.00	0.00	0.00	0.00	0.37	0.32	0.25	0.12
93968	30821650CO	30821640CB	Collector	25-yr	216.70	220.33	213.78	218.41	82.31	3.18	0.5	4.13	4.13	1.00	1.06	1.25	1.33	1.33	2.15	0.32	0.00	0.00	3.05	2.22	1.76	1.40
95310	30840470MH	30840460T	Collector	25-yr	222.47	225.83	222.14	223.47	191.59	0.17	0.833	4.19	4.19	0.91	1.15	1.38	1.57	1.78	2.54	2.26	2.05	1.78	0.89	0.84	0.79	0.74
95311	30840460T	30840450MH	Collector	25-yr	222.14	223.47	221.40	224.45	76.39	0.94	0.833	2.16	2.16	2.12	1.15	1.38	1.56	1.77	0.89	0.84	0.79	0.74	2.56	2.50	2.45	2.37
95547	30841070MH	30841060MH	Collector	25-yr	223.26	227.03	222.77	227.43	144.99	0.27	1	4.77	4.77	1.85	2.53	2.86	2.86	2.88	0.95	0.04	0.00	0.00	2.06	1.29	1.15	1.06
95548	30841080MH	30841070MH	Collector	25-yr	223.94	228.24	223.26	227.03	214.00	0.27	1	5.30	5.30	1.85	2.54	2.88	2.87	2.90	1.11	0.00	0.00	0.00	0.95	0.04	0.00	0.00
96870	30741710MH	30741090CB	Collector	25-yr	224.55	228.69	224.14	228.33	38.99	0.54	1	5.14	5.14	2.61	3.12	3.43	3.51	3.67	0.11	0.00	0.00	0.00	0.03	0.00	0.00	0.00
96871	30741720MH	30741710MH	Collector	25-yr	226.12	228.39	224.55	228.69	73.00	1.89	1	3.27	3.27	4.90	2.26	2.28	2.26	2.35	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
107328	30821235T	30820970MH	Collector	25-yr	216.03	219.14	215.92	220.12	242.73	0.05	1.25	4.36	4.36	1.38	4.06	4.77	5.40	6.12	1.29	0.90	0.51	0.08	3.52	3.45	3.38	3.31
107411	30712100MH	30710200MH	Collector	25-yr	212.69	216.49	208.75	215.49	325.76	0.72	1.25	5.05	5.05	5.47	2.87	3.36	3.63	3.63	3.11	0.14	0.00	0.00	3.36	0.00	0.00	0.00
140307	30930970MH	30930980MH	Collector	25-yr	227.86	231.89	226.83	230.77	243.91	0.38	1	5.03	5.03	2.20	3.14	3.58	3.58	3.59	1.33	0.00	0.00	0.00	2.08	1.20	0.75	0.17
145808	31720780MH	31720820MH	Collector	25-yr	220.89	227.27	220.44	222.77	83.90	0.50	1	3.38	3.38	2.52	1.95	2.25	2.77	2.77	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145809	31720820MH	31720455MH	Collector	25-yr	220.44	222.77	219.86	223.28	22.12	2.62	1	3.33	3.33	5.77	2.32	2.00	3.20	3.32	0.00	0.00	0.00	0.00	0.35	0.02	0.00	0.00
145821	31720455MH	31720410CB	Collector	25-yr	219.86	223.28	219.40	223.30	383.11	0.15	2	5.42	5.42	8.73	5.46	5.18	4.99	4.85	0.35	0.02	0.00	0.00	0.59	0.23	0.05	0.02
148757	30933400MH	30933410MH	Collector	25-yr	227.71	232.76	227.19	230.20	128.40	0.40	1.5	6.55	6.55	6.68	1.58	1.99	2.18	2.61	4.40	3.37	2.50	2.48	1.92	0.85	0.00	0.00
148758	30933410MH	30930450MH	Collector	25-yr	227.19	230.20	226.72	233.40	155.17	0.30	1.5	4.51	4.51	5.78	3.06	3.66	4.04	4.11	1.92	0.85	0.00	0.00	5.29	4.24	3.41	3.34
152308	30840345MH	30840340CB	Collector	25-yr	222.72	224.72	222.42	224.31	94.57	0.32	1.25	3.25	3.25	3.38	1.69	2.03	2.35	2.82	1.13	0.80	0.27	0.20	0.80	0.47	0.00	0.00
152759	31810950MH	31810960MH	Collector	25-yr	221.77	225.23	221.56	225.56	105.00	0.20	2	5.46	5.46	10.12	5.15	5.48	5.98	6.78	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
152760	31810960MH	31810515MH	Collector	25-yr	221.56	225.56	218.52	225.58	116.36	0.50	2	6.00	6.00	15.97	5.09	5.47	5.09	4.36	0.14	0.00	0.00	0.00	0.16	0.00	0.00	0.00
152799	31731170MH	31730620MH	Collector	25-yr	229.63	233.38	229.23	233.86	95.00	0.19	2	5.75	5.75	9.85	7.09	7.92	7.72	7.71	0.52	0.00	0.00	0.00	1.10	0.58	0.57	0.56
152806	31741000MH	31731150MH	Collector	25-yr	231.86	234.36	230.46	233.56	353.40	0.37	0.833	3.33	3.33	1.33	0.82	0.97	1.11	1.17	1.09	0.36	0.10	0.00	0.76	0.22	0.19	0.17
152807	31731150MH	31730620MH	Collector	25-yr	230.46	233.56	229.23	233.86	32.13	0.31	0.833	3.93	3.93	1.22	0.82	0.97	1.11	1.17	0.76	0.22	0.19	0.17	1.10	0.58	0.57	0.56
152997	30830630DI	30830640MH	Collector	25-yr	212.50	215.80	212.02	222.50	31.65	0.35	3	6.30	6.30	42.75	8.06	9.18	9.16	9.38	1.19	0.83	0.58	0.33	7.89	7.53	7.28	7.04
84289	31720620MH	31720610MH	Feeder	10-yr	218.48	223.36	218.21	223.55	75.24	0.77	0.833	5.71	5.71	1.92	1.51	1.46	1.81	1.62	0.00	0.00	0.00					

Periwinkle Creek Watershed																									
Existing Deficiencies																									
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node			
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.
New Infrastructure																									
PERI_NEW_001_L	PERI_NEW_001	PERI_NEW_002	Feeder	10-yr																					
PERI_NEW_002_L	PERI_NEW_002	PERI_NEW_003	Collector	25-yr																					
PERI_NEW_003_L	PERI_NEW_004	PERI_NEW_003	Feeder	10-yr																					
PERI_NEW_004_L	PERI_NEW_003	30710460CO	Collector	25-yr																					
PERI_NEW_005_L	PERI_NEW_005	30710300MH	Feeder	10-yr																					
PERI_NEW_006_L	PERI_NEW_006	31730550MH	Feeder	10-yr																					
PERI_NEW_007_L	PERI_NEW_007	31711610MH	Feeder	10-yr																					
PERI_NEW_008_L	PERI_NEW_008	30840430MH	Collector	25-yr																					
PERI_NEW_009_L	PERI_NEW_009	PERI_NEW_010	Collector	25-yr																					
PERI_NEW_010_L	PERI_NEW_010	PERI_NEW_011	Collector	25-yr																					
PERI_NEW_011_L	PERI_NEW_011	PERI_NEW_012	Collector	25-yr																					
PERI_NEW_012_L	PERI_NEW_012	30930190MH	Collector	25-yr																					

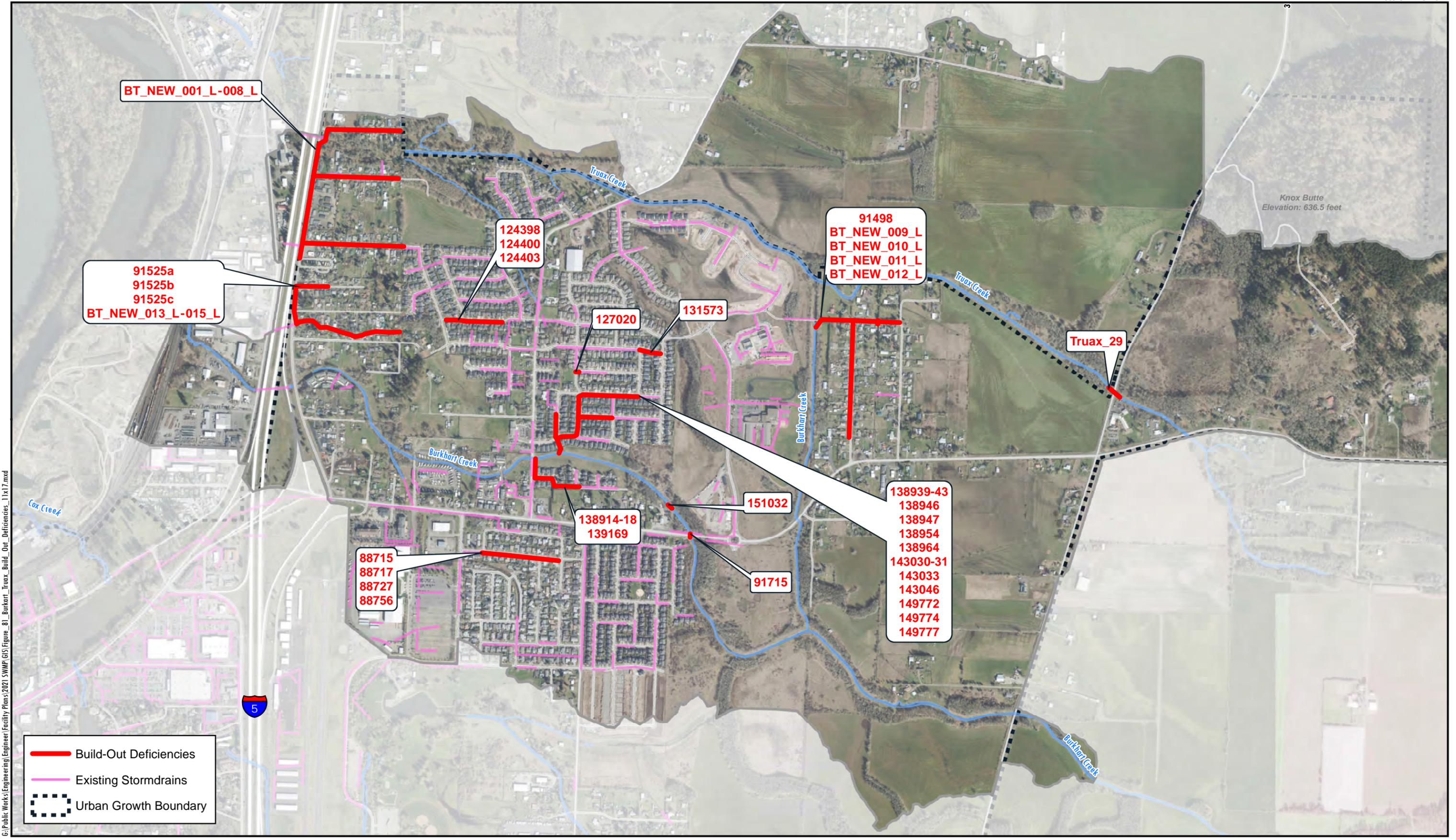
Table 7.5 Periwinkle Creek Basin Existing Deficiencies



Willamette River Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
RxR c	30731400OF	30731630HW	Bridge/Culvert Trunk	100-yr	210.88	214.99	211.41	213.42	427.28	-0.12	-	4.27	4.27	0.30	3.29	3.26	3.22	3.21	1.55	1.56	1.56	1.56	0.00	0.00	0.00	0.00
92929	41322160HW	41322150PE	Bridge/Culvert Collector	100-yr	211.50	214.63	211.00	217.35	94.76	0.53	2	5.13	5.13	15.26	10.05	11.93	13.34	14.45	1.88	1.43	1.11	0.88	4.78	4.28	4.03	3.88
120982	41322140HW	41230985MH	Bridge/Culvert Collector	100-yr	210.47	217.91	209.52	212.90	195.94	0.48	2	9.44	9.44	14.63	7.44	7.79	9.38	10.97	5.35	4.84	4.59	4.44	0.59	0.11	0.00	0.00
120983	41230985MH	41230700ED	Bridge/Culvert Collector	100-yr	209.52	212.90	207.21	212.53	442.57	0.66	1.5	4.88	4.88	7.92	7.35	7.79	7.98	8.06	0.59	0.11	0.00	0.00	4.77	4.74	4.73	4.71
7269	741800CB	30740350CB	Collector	25-yr	224.43	225.45	221.93	223.55	158.00	1.58	0.667	1.69	1.69	1.52	1.33	1.33	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84625	30730810CB	30730750MH	Collector	25-yr	212.91	215.73	211.12	215.67	291.54	0.56	1.5	4.32	4.32	7.29	7.67	8.28	8.53	8.57	1.46	0.32	0.00	0.00	3.62	2.41	2.09	1.99
84631	30740350CB	30740340MH	Collector	25-yr	221.93	223.55	221.37	224.53	32.73	1.71	0.833	2.45	2.45	2.86	0.64	0.65	0.65	0.65	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.98
84634	30730840MH	30730820MH	Collector	25-yr	210.61	213.90	209.30	213.76	151.41	0.54	1	4.29	4.29	2.43	2.30	2.78	2.79	2.80	1.27	0.00	0.00	0.00	1.87	0.93	0.94	0.94
84637	30730820MH	30731700MH	Collector	25-yr	209.30	213.76	208.15	213.00	338.56	0.27	1	5.46	5.46	1.71	2.30	2.78	2.78	2.78	1.87	0.93	0.94	0.94	2.75	2.54	2.54	2.54
84642	30740340MH	30740330MH	Collector	25-yr	221.37	224.53	220.93	224.67	128.95	0.34	0.833	3.99	3.99	1.19	1.95	1.94	1.94	1.94	0.98	0.98	0.98	0.98	1.78	1.78	1.78	1.78
84647	30740400CB	30730810CB	Collector	25-yr	215.80	218.29	212.91	215.73	533.42	0.56	1.5	3.99	3.99	7.28	4.19	4.27	4.31	4.28	1.59	1.44	1.35	1.35	1.46	0.32	0.00	0.00
84670	30740560MH	30740560MH	Collector	25-yr	217.06	219.98	214.86	221.64	266.21	0.74	1	3.92	3.92	2.84	2.74	2.72	2.75	2.79	0.00	0.00	0.00	0.00	1.89	1.71	1.59	1.49
84674	30730860MH	30731700MH	Collector	25-yr	209.97	213.70	208.15	213.00	335.04	0.35	1	4.73	4.73	1.96	3.38	3.39	3.40	3.41	0.00	0.00	0.00	0.00	2.75	2.54	2.54	2.54
84687	30740580MH	30740583MH	Collector	25-yr	213.86	219.17	213.79	218.59	45.76	0.15	1	6.31	6.31	1.29	3.10	3.11	3.11	3.11	0.90	0.47	0.37	0.35	0.58	0.10	0.00	0.00
84709	30740620MH	30740610MH	Collector	25-yr	212.94	216.58	199.00	215.48	200.14	0.36	1.25	4.89	4.89	3.62	5.82	6.45	6.89	7.30	1.43	0.97	0.63	0.30	10.03	9.96	9.91	9.86
84711	30740240MH	30740490MH	Collector	25-yr	220.30	224.22	218.87	223.71	302.09	0.45	0.833	4.75	4.75	1.36	1.51	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.84	0.72	0.60	0.48
85032	30712160MH	30740560MH	Collector	25-yr	217.45	219.65	214.86	221.64	355.87	0.73	1	3.20	3.20	2.82	-0.54	-0.93	-1.11	-1.25	0.00	0.00	0.00	0.00	1.89	1.71	1.59	1.49
85035	30740490MH	30740510MH	Collector	25-yr	218.87	223.71	218.60	223.30	96.05	0.29	1	5.84	5.84	1.79	2.16	2.26	2.36	2.45	0.84	0.72	0.60	0.48	0.85	0.76	0.69	0.61
85036	30730550CB	30730010MH	Collector	25-yr	211.48	214.15	209.99	214.19	543.30	0.27	1.25	3.92	3.92	3.11	3.66	4.47	4.47	4.47	0.94	0.00	0.00	0.00	3.63	3.56	3.56	3.56
85037	30740630MH	30740620MH	Collector	25-yr	213.56	217.39	212.94	216.58	90.11	0.65	1.25	5.08	5.08	4.85	3.54	3.64	3.66	3.67	1.90	1.44	1.11	0.78	1.43	0.97	0.63	0.30
85664	30640140MH	30640110MH	Collector	25-yr	195.06	210.54	193.92	209.25	292.34	0.39	1.25	16.73	16.73	3.75	5.66	5.62	5.56	5.52	0.00	0.00	0.00	0.00	0.61	0.42	0.27	0.10
85667	30640190T	30640160X	Collector	25-yr	197.31	210.43	197.16	210.33	39.49	0.38	1.25	14.37	14.37	3.70	5.06	5.04	5.03	5.02	0.31	0.28	0.25	0.22	0.48	0.42	0.37	0.31
85669	30640050MH	30640040MH	Collector	25-yr	196.29	209.37	195.54	208.37	195.53	0.38	1.25	14.33	14.33	3.71	6.65	6.77	6.87	6.96	0.91	0.71	0.52	0.31	2.16	2.05	1.92	1.76
85672	30640280MH	30640280T	Collector	25-yr	196.21	212.41	195.72	211.32	125.11	0.39	1.25	17.45	17.45	3.75	4.28	4.26	4.25	4.25	0.75	0.72	0.70	0.70	0.14	0.12	0.11	0.11
85673	30640270T	30640280MH	Collector	25-yr	196.77	211.75	196.21	212.41	114.65	0.42	1.25	16.23	16.23	3.88	3.40	3.41	3.42	3.42	0.00	0.00	0.00	0.00	0.75	0.72	0.70	0.70
85676	30640150MH	30640050MH	Collector	25-yr	196.66	209.68	196.29	209.37	96.48	0.38	1.25	14.27	14.27	3.71	5.06	5.05	5.03	5.02	0.61	0.48	0.34	0.20	0.91	0.71	0.52	0.31
85680	30710240MH	30640230MH	Collector	25-yr	198.83	211.34	198.49	211.71	92.33	0.37	1.25	13.76	13.76	3.64	1.99	1.98	1.98	1.99	0.00	0.00	0.00	0.00	0.46	0.43	0.43	0.43
85684	30640220T	30640210T	Collector	25-yr	198.40	211.26	198.21	211.18	49.37	0.38	1.25	14.11	14.11	3.72	3.68	3.74	3.74	3.74	0.03	0.00	0.00	0.00	0.14	0.12	0.12	0.12
85685	30640230MH	30640220T	Collector	25-yr	198.49	211.71	198.40	211.26	24.46	0.37	1.25	14.47	14.47	3.64	1.99	1.98	1.99	1.99	0.46	0.43	0.43	0.43	0.03	0.00	0.00	0.00
85696	30640280T	30640140MH	Collector	25-yr	195.72	211.32	195.06	210.54	165.96	0.40	1.25	16.85	16.85	3.78	4.30	4.28	4.27	4.26	0.14	0.12	0.11	0.11	0.00	0.00	0.00	0.00
85697	30640110MH	30640100MH	Collector	25-yr	193.92	209.25	193.18	208.16	159.91	0.46	1.25	16.58	16.58	4.08	6.33	6.31	6.30	6.30	0.61	0.42	0.27	0.10	1.08	0.87	0.71	0.52
85698	30640100MH	30640090MH	Collector	25-yr	193.18	208.16	192.78	207.95	130.68	0.31	1.25	16.23	16.23	3.32	8.75	8.77	8.74	8.73	1.08	0.87	0.71	0.52	3.34	3.11	2.92	2.69
85713	30640200MH	30640190T	Collector	25-yr	197.38	210.27	197.31	210.43	30.38	0.39	1.25	14.14	14.14	3.77	4.35	4.33	4.29	4.26	0.00	0.00	0.00	0.00	0.31	0.28	0.25	0.22
85714	30640210T	30640200MH	Collector	25-yr	198.21	211.18	197.38	210.27	221.00	0.38	1.25	14.22	14.22	3.68	3.69	3.74	3.74	3.74	0.14	0.12	0.12	0.12	0.00	0.00	0.00	0.00
85715	30640160X	30640150MH	Collector	25-yr	197.16	210.33	196.66	209.68	126.73	0.39	1.25	14.42	14.42	3.77	5.06	5.05	5.03	5.02	0.48	0.42	0.37	0.31	0.61	0.48	0.34	0.20
85720	30710080X	30710240MH	Collector	25-yr	199.70	211.52	198.83	211.34	176.74	0.49	2	13.82	13.82	14.74	2.47	2.75	3.21	3.70	0.14	0.14	0.14	0.11	0.00	0.00	0.00	0.00
85854	30641060MH	30640020MH	Collector	25-yr	197.70	204.30	194.54	207.39	290.00	0.58	1	7.60	7.60	2.52	2.15	2.20	2.18	2.08	0.00	0.00	0.00	0.00	3.04	3.00	2.95	2.85
86398	31820070CB	31820050CB	Collector	25-yr	219.18	221.90	218.63	223.93	470.39	0.12	2	4.72	4.72	7.18	8.17	9.69	9.97	9.96	0.97	0.45	0.30	0.29	3.71	3.42	3.28	3.23
86405	31820100CB	31820090CB	Collector	25-yr	219.63	223.53	219.33	221.78	488.14	0.06	2	5.90	5.90	5.21	4.65	5.60	5.89	5.98	2.24	1.60	1.48	1.47	0.73	0.17	0.02	0.02
86407	31820090CB	31820560X	Collector	25-yr	219.33	221.78	219.30	221.74	16.13	0.21	2	4.45	4.45	9.06	4.75	5.70	5.97	6.06	0.73	0.17	0.02	0.02	0.71	0.15	0.00	0.00
86408	31820560X	31820070CB																								

Willamette River Watershed																										
Existing Deficiencies																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
85663	30640250MH	30640255MH	Feeder	10-yr	197.13	212.05	196.54	211.94	136.19	0.43	1.5	16.42	16.42	6.42	1.37	1.67	1.94	2.23	0.20	0.21	0.19	0.16	0.13	0.13	0.13	0.12
85700	30640120MH	30640110MH	Feeder	10-yr	203.09	209.97	193.92	209.25	288.38	1.13	1.25	8.13	8.13	6.37	1.13	1.37	1.58	1.79	1.24	1.00	0.80	0.58	0.61	0.42	0.27	0.10
85744	30710080MH	30710080X	Feeder	10-yr	199.79	211.80	199.70	211.52	18.10	0.50	1.75	13.76	13.76	10.38	-1.05	-1.23	-0.92	0.96	0.42	0.42	0.41	0.39	0.14	0.14	0.14	0.11
86992	30721050CB	30721060MH	Feeder	10-yr	207.73	209.32	194.33	210.16	275.76	4.51	0.5	2.09	2.09	1.11	1.18	1.18	1.17	1.18	0.40	0.00	0.00	0.00	14.94	14.85	14.76	14.55
88361	41240020MH	41240030MH	Feeder	10-yr	225.14	228.07	221.58	227.85	234.50	0.70	0.667	3.60	3.60	0.94	1.49	1.49	1.49	1.49	0.00	0.00	0.00	0.00	4.32	4.32	3.33	2.37
88478	30740480MH	30740490MH	Feeder	10-yr	217.79	225.03	218.87	223.71	247.28	-0.44	0.833	8.07	8.07	1.34	0.78	0.95	1.10	1.27	1.81	1.52	1.23	0.89	0.84	0.72	0.60	0.48
88568	30741050MH	30740540MH	Feeder	10-yr	219.50	223.77	217.06	219.98	313.57	0.63	0.833	5.10	5.10	1.62	2.10	2.06	2.01	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88704	30640380MH	30640370MH	Feeder	10-yr	202.10	207.69	200.54	209.80	231.60	0.59	1	6.59	6.59	2.54	1.37	1.37	1.38	1.28	0.00	0.00	0.00	0.00	2.17	2.11	2.09	2.01
94399	30641070MH	30641060CB	Feeder	10-yr	203.56	209.86	198.65	204.54	169.98	1.62	0.833	7.13	7.13	2.59	0.96	1.17	1.36	1.56	5.14	4.94	4.73	4.47	0.21	0.19	0.18	0.16
99678	31820590CB	11318206OT	Feeder	10-yr	222.48	224.18	222.35	224.49	42.00	0.32	0.67	2.37	2.37	0.68	1.12	1.12	1.12	1.12	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.65
99679	11318206OT	31820610CB	Feeder	10-yr	222.35	224.49	222.48	224.77	95.00	0.33	0.67	2.81	2.81	0.70	1.12	1.12	1.12	1.12	0.65	0.65	0.65	0.65	1.90	1.90	1.90	1.90
105507	30641380DE	30641380MH	Feeder	10-yr	208.14	214.51	207.85	214.14	27.05	0.52	0.833	7.20	7.20	1.46	1.57	1.91	2.20	2.50	0.35	0.24	0.14	0.03	0.13	0.09	0.06	0.04
106597	30640140T	30640140MH	Feeder	10-yr	203.00	211.31	195.06	210.54	321.00	0.83	0.667	8.98	8.98	1.02	1.07	1.09	1.07	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129093	30530083CB	30530082CB	Feeder	10-yr	207.65	209.01	207.02	208.79	173.99	0.36	0.833	2.19	2.19	1.32	1.03	1.03	1.03	1.02	0.00	0.00	0.00	0.00	0.13	0.07	0.01	0.00
144913	30732690MH	30732700MH	Feeder	10-yr	216.19	219.26	215.74	219.70	98.70	0.20	1	4.07	4.07	1.49	2.93	3.21	3.19	3.18	0.74	0.00	0.00	0.00	1.98	1.26	1.05	0.86
151659	30740605MH	30740280MH	Feeder	10-yr	221.79	225.70	220.54	224.44	269.75	0.46	1	4.91	4.91	2.25	1.17	1.17	1.17	1.17	0.93	0.93	0.93	0.92	0.00	0.00	0.00	0.00
152223	30530084CB	30530082CB	Feeder	10-yr	207.51	208.82	207.02	208.79	48.50	0.93	0.5	1.81	1.81	0.54	0.61	0.62	0.63	0.62	0.00	0.00	0.00	0.00	0.13	0.07	0.01	0.00
New Infrastructure																										
WILL_NEW_001_L	WILL_NEW_001	30731450MH	Collector	25-yr																						
WILL_NEW_002_L	WILL_NEW_002	WILL_NEW_001	Feeder	10-yr																						
WILL_NEW_003_L	31820570CB	WILL_NEW_002	Feeder	10-yr																						
WILL_NEW_004_L	31820590CB	WILL_NEW_001	Feeder	10-yr																						
WILL_NEW_005_L	WILL_NEW_003	41320700MH	Collector	25-yr																						
WILL_NEW_006_L	WILL_NEW_006	WILL_NEW_005	Collector	25-yr																						
WILL_NEW_007_L	WILL_NEW_005	WILL_NEW_004	Collector	25-yr																						
WILL_NEW_020_L	WILL_NEW_008	WILL_NEW_009	Feeder	10-yr																						

Table 7.6 Willamette River Basin Existing Deficiencies



G:\Public Works\Engineering\Facility Plans\2021 SWMP\GIS\Figure 8.1\_Burkart\_Trux\_Build\_Out\_Deficiencies\_11x17.mxd

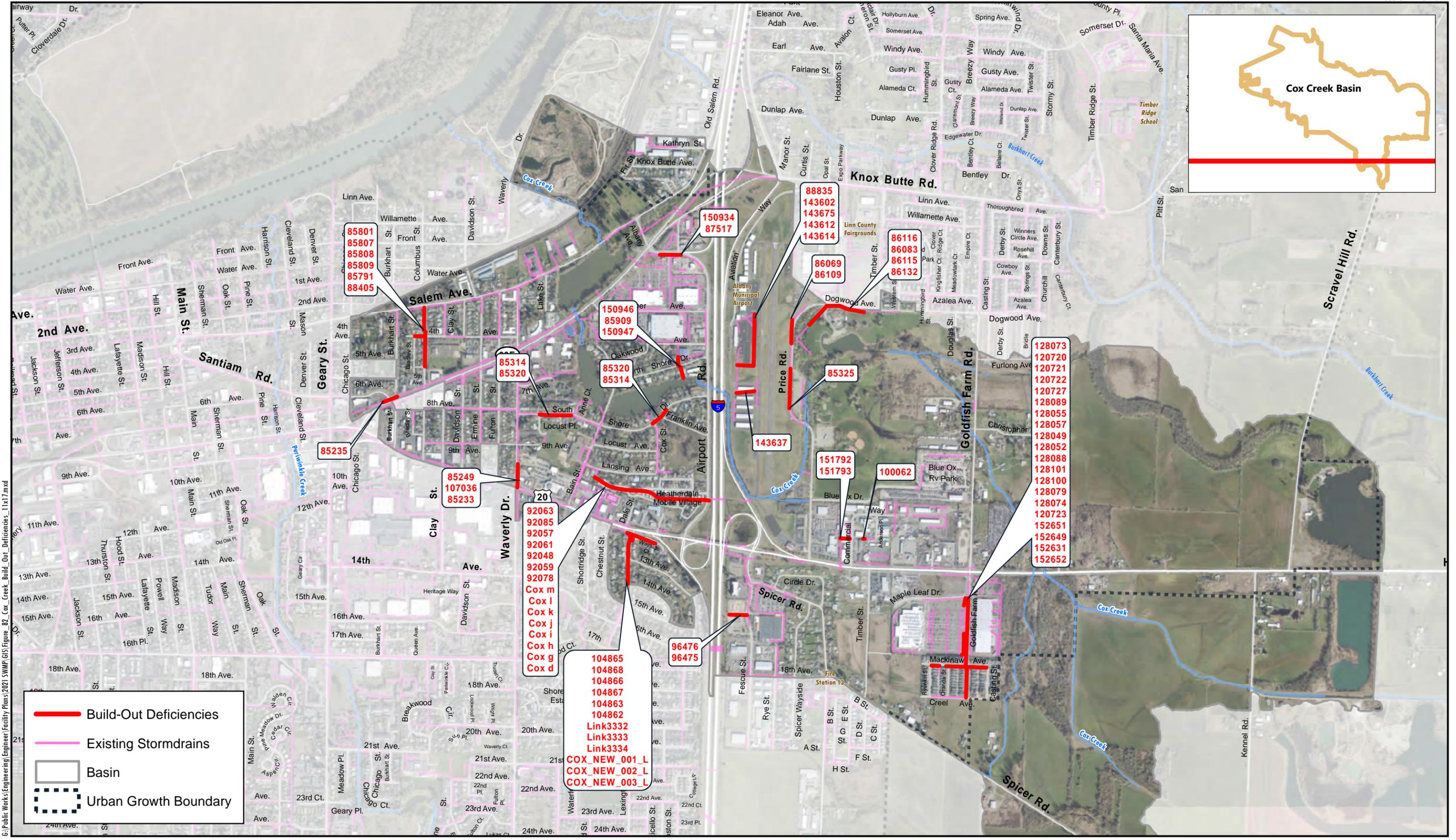


Date: 3/21/2021

### Burkhart-Truax Basin Build-Out Deficiencies

Figure 8.1

Burkhart-Traux Watershed Build-out																										
Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
91715	30320210HW	30320220PE	Bridge/Culvert Trunk	100-yr	216.97	224.97	216.60	225.00	68.00	0.54	8	0.00	0.40	3149.55	370.40	448.73	523.68	579.81	0.38	0.00	0.00	0.00	0.48	0.00	0.00	0.00
151032	Crk B 6	Crk B 5	Bridge/Culvert Trunk	100-yr	216.62	227.00	216.55	227.00	39.00	0.18	10	0.38	0.45	129.47	369.85	417.32	442.29	457.08	2.74	1.87	1.20	0.78	4.57	4.17	3.76	3.47
Road	Crk B 6	Crk B 5	Bridge/Culvert Trunk	100-yr	216.62	227.00	216.55	227.00	37.00	0.10	1	9.38	9.45	9.17	1.76	33.33	84.00	126.92	2.74	1.87	1.20	0.78	4.57	4.17	3.76	3.47
Truax_29	Crk T_17	Crk T_16	Bridge/Culvert Trunk	100-yr	220.75	230.00	219.62	229.00	186.00	0.61	7	2.25	2.38	1464.95	697.88	880.32	1033.72	1160.17	3.05	2.33	1.65	1.31	2.59	1.84	1.11	0.79
88715	30441540CB	30441580CB	Collector	25-yr	219.94	222.60	218.95	222.47	330.75	0.30	1.5	1.16	2.02	5.75	5.70	6.91	7.80	7.94	1.42	0.67	0.01	0.00	2.24	1.93	1.68	1.65
88717	30441510CB	30441540CB	Collector	25-yr	220.84	224.01	219.94	222.60	298.15	0.30	1.5	1.67	1.16	5.77	4.00	4.83	5.33	5.37	2.19	1.48	0.74	0.71	1.42	0.67	0.01	0.00
88727	30441460CB	30441510CB	Collector	25-yr	221.03	224.19	220.84	224.01	66.86	0.28	1.25	1.91	1.92	3.44	4.00	4.84	5.32	5.36	2.10	1.29	0.52	0.50	2.19	1.48	0.74	0.71
88756	30441450CB	30441460CB	Collector	25-yr	221.59	224.76	221.03	224.19	183.50	0.31	1.25	1.92	1.91	3.57	4.01	4.86	5.31	5.35	2.03	0.85	0.00	0.00	2.10	1.29	0.52	0.50
91498	33440020HW	33440010PE	Collector	25-yr	221.25	223.56	221.11	226.30	40.71	0.34	1.667	0.64	3.52	8.16	11.64	17.20	21.40	23.01	0.99	0.55	0.15	0.00	3.74	3.25	2.91	2.63
124398	30410160MH	30410050MH	Collector	25-yr	217.30	220.63	217.02	220.72	139.18	0.15	1	2.33	2.70	1.38	2.16	2.85	2.92	2.94	2.16	0.00	0.00	0.00	2.68	0.87	0.81	0.75
124400	30410050MH	30410040MH	Collector	25-yr	217.02	220.72	216.68	220.28	91.72	0.29	1	2.70	2.60	1.93	2.12	2.78	2.81	2.83	2.68	0.87	0.81	0.75	2.54	0.95	0.84	0.74
124403	30410040MH	30410030MH	Collector	25-yr	216.68	220.28	215.49	220.21	408.83	0.26	1	2.60	3.72	1.82	2.04	2.75	2.75	2.75	2.54	0.95	0.84	0.74	3.72	3.20	2.90	2.62
127020	30410100MH	30410090MH	Collector	25-yr	217.96	220.78	217.82	220.84	38.02	0.37	1	1.82	2.02	2.16	2.31	2.90	3.37	3.40	1.63	0.87	0.12	0.00	1.84	1.18	0.51	0.40
131573	30320060MH	30320050MH	Collector	25-yr	219.94	222.97	219.20	222.90	114.47	0.61	0.833	2.20	2.87	1.71	2.24	2.37	2.43	2.50	0.17	0.00	0.00	0.00	1.25	0.98	0.83	0.64
131574	30320050MH	30320040MH	Collector	25-yr	219.20	222.90	218.76	222.17	130.04	0.30	0.833	2.27	2.58	1.20	2.23	2.37	2.43	2.50	1.25	0.98	0.83	0.64	1.83	1.51	1.29	1.02
138939	30410880MH	30410870MH	Collector	25-yr	215.60	222.48	215.43	221.85	143.09	0.12	2	4.88	4.42	7.80	6.26	8.21	8.79	8.73	1.33	0.88	0.87	0.86	0.72	0.26	0.25	0.25
138940	30410870MH	30410840MH	Collector	25-yr	215.43	221.85	215.10	221.70	60.69	0.68	2	4.42	4.60	18.59	6.26	8.20	8.78	8.73	0.72	0.26	0.25	0.25	0.58	0.11	0.11	0.11
138941	30410840MH	30410850MH	Collector	25-yr	215.10	221.70	215.00	221.59	8.29	0.24	2	4.60	4.59	11.11	7.50	9.83	10.84	11.09	0.58	0.11	0.11	0.11	0.47	0.00	0.00	0.00
138942	30410850MH	30410860MH	Collector	25-yr	215.00	221.59	214.80	220.14	117.00	0.09	2	4.59	3.34	6.94	8.52	11.10	-14.52	-18.82	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138943	30410860MH	30410860OF	Collector	25-yr	214.80	220.14	213.93	222.00	54.02	0.06	2	3.34	6.07	5.33	8.52	11.10	-15.20	-20.53	0.00	0.00	0.00	0.00	0.92	0.29	0.00	0.00
138954	30410900MH	30410890MH	Collector	25-yr	216.00	222.64	215.83	222.38	85.88	0.08	1.5	5.14	5.05	3.00	4.88	6.51	6.81	6.62	1.44	1.03	1.01	1.00	1.22	0.78	0.76	0.75
138964	30410890MH	30410880MH	Collector	25-yr	215.83	222.38	215.60	222.48	30.15	0.20	1.5	5.05	5.38	4.69	5.55	7.34	7.76	7.60	1.22	0.78	0.76	0.75	1.33	0.88	0.87	0.86
143030	30320210MH	30320200MH	Collector	25-yr	217.23	223.99	216.80	221.70	342.00	0.11	1.5	5.26	3.40	3.55	2.64	3.39	4.18	4.37	2.68	2.26	1.93	1.77	0.43	0.06	0.01	0.00
143031	30320200MH	30410920MH	Collector	25-yr	216.80	221.70	216.27	221.78	48.00	0.25	1.5	3.40	4.01	5.25	3.49	4.44	5.50	5.95	0.43	0.06	0.01	0.00	0.53	0.16	0.13	0.12
143033	30411940MH	30410920MH	Collector	25-yr	216.93	221.80	216.27	221.78	244.25	0.27	1.25	3.62	4.26	3.36	1.45	2.07	2.08	2.02	0.51	0.29	0.28	0.27	0.53	0.16	0.13	0.12
143046	30410920MH	30410900MH	Collector	25-yr	216.27	221.78	216.00	222.64	109.31	0.12	1.5	4.01	5.14	3.62	4.88	6.51	6.82	6.63	0.53	0.16	0.13	0.12	1.44	1.03	1.01	1.00
149774	30320240MH	30411930MH	Collector	25-yr	218.15	221.77	217.26	221.48	297.00	0.27	1	2.62	3.22	1.84	1.05	1.50	1.50	1.51	0.42	0.06	0.00	0.00	0.19	0.00	0.00	0.00
149777	30411930MH	30411940MH	Collector	25-yr	217.26	221.48	216.93	221.80	51.00	0.43	1.25	2.97	3.62	4.24	1.05	-1.66	-1.91	-2.04	0.19	0.00	0.00	0.00	0.51	0.29	0.28	0.27
91525a	Node3313	38420210HW	Collector	25-yr	217.80	222.00	212.11	218.00	380.75	1.49	0	4.20	5.89	329.54	5.24	6.87	8.57	10.65	3.83	3.77	3.73	3.68	5.39	5.32	5.25	5.18
91525b	Node3312	Node3313	Collector	25-yr	219.22	223.00	217.80	222.00	462.38	0.31	0	3.78	4.20	30.06	5.24	6.87	8.58	10.66	2.63	2.51	2.45	2.40	3.83	3.77	3.73	3.68
91525c	Node3311	Node3312	Collector	25-yr	220.05	225.00	219.22	223.00	398.52	0.21	0	4.95	3.78	38.11	5.27	6.88	8.60	10.67	3.77	3.63	3.49	3.36	2.63	2.51	2.45	2.40
138914	30410835CI	30410830MH	Feeder	10-yr	217.77	222.83	217.27	222.47	44.52	1.10	1	4.06	4.20	3.74	2.61	3.38	3.75	4.06	0.79	0.00	0.00	0.00	0.54	0.00	0.00	0.00
138915	30410830MH	30410820MH	Feeder	10-yr	217.27	222.47	216.54	222.15	246.38	0.22	1	4.20	4.61	1.65	3.11	3.46	3.38	3.28	0.54	0.00	0.00	0.00	0.92	0.25	0.17	0.11
138916	30410820CI	30410810MH	Feeder	10-yr	216.09	222.09	215.87	221.61	28.48	0.14	1.25	4.75	4.49	2.42	3.10	3.45	3.36	3.27	1.02	0.44	0.43	0.42	0.56	0.00	0.00	0.00
138917	30410810MH	30410800MH	Feeder	10-yr	215.87	221.61	215.37	221.52	198.12	0.15	1.5	4.24	4.65	4.02	4.21	4.67	4.76	4.96	0.56	0.00	0.00	0.00	0.57	0.00	0.00	0.00
138918	30410800MH	30410800OF	Feeder	10-yr	215.37	221.52	213.72	226.00	218.50	0.07	1.5	4.65	10.78	2.84	4.20	4.67	-6.00	-7.93	0.57	0.00	0.00	0.00	5.15	4.43	3.80	3.29
138946	30410910MH	30410840CI	Feeder	10-yr	217.41	221.31	216.80	221.97	259.90	0.23	1	2.90	4.17	1.73	0.55	-1.15	-1.15	1.21	0.18	0.00	0.00	0.00	0.85	0.40	0.40	0.40
138947	30410840CI	30410840MH	Feeder	10-yr	216.80	221.97	215.10	221.70	19.84	0.25	1	4.17	5.60	1.79	0.54	-1.15	-1.15	1.21	0.85	0.40	0.40	0.40	0.58	0.11	0.11	0.11
139169	30410820MH	30410820CI	Feeder	10-yr	216.54	222.15	216.09	222.09	56.57	0.32	1	4.61	5.00	2.01	3.10	3.45	3.36	3.27	0.92	0.25	0.17	0.11	1.02	0.44	0.43	0.42
149772	30320230MH	30320240MH	Feeder	10-yr	219.27	222.56	218.15	221.77	335.00	0.33	1	2.29	2.62	2.06	0.22	0.36	0.49	0.61	1.20	0.82	0.63	0.52	0.42	0.06	0.00	0.00
New Infrastructure																										
BT_NEW_001_L	BT_NEW_001	BT_NEW_003	Feeder	10-yr																						
BT_NEW_002_L	BT_NEW_002	BT_NEW_003	Collector	25-yr																						
BT_NEW_003_L	BT_NEW_003	BT_NEW_005	Collector	25-yr																						
BT_NEW_004_L	BT_NEW_004	BT_NEW_005	Collector	25-yr																						
BT_NEW_005_L	BT_NEW_005	BT_NEW_006	Collector	25-yr																						
BT_NEW_006_L	BT_NEW_006	3340090ED	Collector	25-yr																						
BT_NEW_007_L	BT_NEW_007	BT_NEW_008	Collector	25-yr																						
BT_NEW_008_L	BT_NEW_008	3340090ED	Collector	25-yr																						
BT_NEW_009_L	BT_NEW_009	BT_NEW_011	Collector	25-yr																						



G:\Public Works\Engineering\Facility Plans\2021 SWMP\GIS\Figure 82\_Cox\_Creek\_Build\_Out\_Deficiencies\_11x17.mxd



Date: 3/21/2021

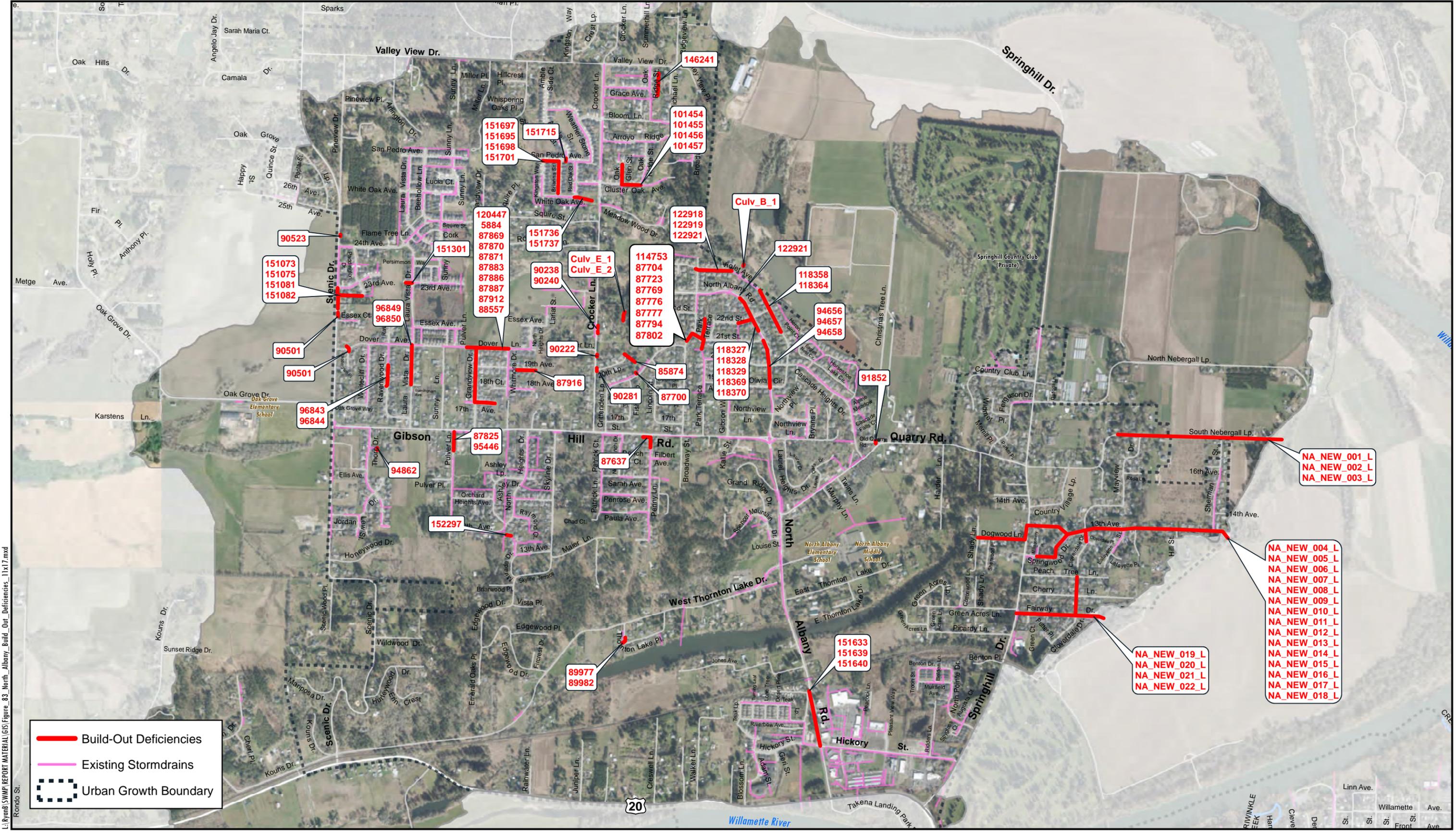
**Cox Creek Basin Build-Out Deficiencies**

Figure 8.2

Cox Creek Watershed																										
Build-out Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties						Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node			
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
92048	30920560HW	30922210X	Bridge/Culvert Collector	100-yr	216.25	225.00	215.95	225.00	59.00	0.51	2	6.75	7.05	16.13	11.17	12.27	13.18	14.65	5.70	5.00	4.43	3.83	6.22	5.61	5.12	4.62
92057	30920920HW	30920920PE	Bridge/Culvert Collector	100-yr	214.53	219.90	214.16	219.90	155.00	0.24	2	3.37	3.74	11.05	11.18	12.23	13.02	13.83	1.12	0.51	0.02	0.00	1.86	1.39	1.02	0.65
92059	30920910HW	30920910PE	Bridge/Culvert Collector	100-yr	214.01	219.75	213.90	219.20	47.00	0.23	2	3.74	3.30	10.94	11.20	12.25	13.05	13.84	1.71	1.24	0.87	0.50	1.63	1.27	0.97	0.68
92061	30920900HW	30920900PE	Bridge/Culvert Collector	100-yr	213.91	219.21	213.22	218.75	55.00	1.25	2	3.30	3.53	25.34	12.21	13.36	14.21	15.02	1.65	1.28	0.98	0.69	1.78	1.53	1.33	1.14
92063	30920890HW	30920890PE	Bridge/Culvert Collector	100-yr	213.62	218.50	212.89	218.76	70.00	1.04	2	2.88	3.87	23.10	12.23	13.36	14.21	15.02	1.54	1.29	1.09	0.89	2.44	2.31	2.21	2.12
92078	30920870HW	30920870PE	Bridge/Culvert Collector	100-yr	212.82	219.50	212.47	217.90	85.00	0.41	2.5	4.18	2.93	26.32	12.25	13.39	14.23	15.03	3.41	3.30	3.23	3.16	1.98	1.91	1.88	1.86
92085	30920880HW	30920880PE	Bridge/Culvert Collector	100-yr	213.20	219.07	212.89	219.60	55.00	0.56	2.5	3.37	4.21	30.79	12.24	13.37	14.22	15.03	2.76	2.63	2.53	2.43	3.50	3.40	3.32	3.26
151792	30912970MH	30910005MH	Bridge/Culvert Collector	100-yr	221.98	224.46	218.78	225.21	41.00	0.66	1	1.48	5.43	2.89	2.67	3.39	3.69	3.81	1.21	0.92	0.72	0.65	4.82	4.55	4.36	4.19
151793	30912970MH	30910005MH	Bridge/Culvert Collector	100-yr	221.98	224.46	218.78	225.21	41.00	0.66	1	1.48	5.43	2.89	2.67	3.39	3.69	3.81	1.21	0.92	0.72	0.65	4.82	4.55	4.36	4.19
85233	30811570CB	30811560CB	Collector	25-yr	220.37	223.39	219.85	223.12	156.83	0.33	1.75	1.27	1.52	9.12	7.13	8.75	10.09	11.27	1.33	0.91	0.54	0.20	1.34	1.10	0.90	0.72
85235	30821020MH	30821160MH	Collector	25-yr	214.50	220.17	214.02	219.91	213.69	0.22	1.25	4.42	4.64	3.06	4.75	5.67	5.78	5.82	2.55	0.00	0.00	0.00	3.40	1.08	0.88	0.67
85249	30810230MH	30811570CB	Collector	25-yr	220.30	223.57	220.37	223.39	76.19	0.35	1.75	1.52	1.27	9.43	7.13	8.75	10.09	11.27	1.39	0.88	0.41	0.00	1.33	0.91	0.54	0.20
85314	30920100MH	30920090MH	Collector	25-yr	210.92	215.04	210.67	216.23	120.04	0.17	1	3.12	4.56	1.49	2.69	2.89	2.72	2.81	1.11	0.00	0.00	0.00	2.41	1.38	0.56	0.00
85320	30920090MH	30920060MH	Collector	25-yr	210.67	216.23	209.44	217.98	176.07	0.31	1	4.56	7.54	1.99	3.52	4.05	3.95	3.81	2.41	1.38	0.56	0.00	4.37	3.87	2.59	1.38
85801	30541330MH	30540830MH	Collector	25-yr	213.16	216.72	212.52	215.40	25.92	2.47	1.25	2.31	1.63	10.15	7.42	7.79	8.06	8.33	0.81	0.67	0.56	0.46	0.00	0.00	0.00	0.00
85807	30540840MH	30541330MH	Collector	25-yr	213.41	217.12	213.16	216.72	63.00	0.40	1.25	2.46	2.31	4.07	6.08	6.29	6.41	6.52	0.66	0.48	0.36	0.23	0.81	0.67	0.56	0.46
85808	30540830MH	30540380MH	Collector	25-yr	212.52	215.40	208.86	216.92	325.40	0.42	1.25	1.63	6.81	4.21	6.72	6.86	6.95	7.04	0.00	0.00	0.00	0.00	5.55	5.15	4.84	4.58
85809	30540860MH	30540840MH	Collector	25-yr	215.35	219.24	213.41	217.12	429.20	0.45	1	2.89	2.71	2.40	3.07	3.15	3.20	3.26	0.00	0.00	0.00	0.00	0.66	0.48	0.36	0.23
85900	30811910MH	30811920MH	Collector	25-yr	211.85	218.00	211.25	215.82	137.07	0.38	1	5.15	3.57	2.19	2.75	3.37	3.86	4.37	2.31	0.98	0.57	0.07	0.91	0.00	0.00	0.00
85903	30811920MH	30811940MH	Collector	25-yr	211.25	215.82	210.60	216.58	367.99	0.16	1	3.57	4.98	1.43	2.74	3.02	3.05	2.97	0.91	0.00	0.00	0.00	3.79	3.17	3.07	2.89
85909	30430590MH	30430450ED	Collector	25-yr	211.81	215.37	206.26	222.00	164.59	3.37	1	2.56	14.74	6.54	3.91	4.63	5.03	4.84	1.49	0.75	0.00	0.00	8.27	7.63	6.45	5.28
87517	30430110MH	30430440T	Collector	25-yr	214.60	216.37	211.48	216.05	297.50	1.05	1	0.77	3.57	3.65	4.36	4.47	4.53	4.59	0.00	0.00	0.00	0.00	3.17	2.96	2.84	2.69
88835	30430400MH	30430390MH	Collector	25-yr	214.12	218.97	213.16	218.49	232.76	0.41	1.25	3.60	4.08	4.15	7.72	7.64	7.36	7.12	0.46	0.00	0.00	0.00	2.86	2.01	1.23	0.34
96475	30933290MH	30933030MH	Collector	25-yr	226.28	234.02	225.82	235.23	78.97	0.46	1.25	6.49	8.16	4.36	7.09	8.53	8.57	8.57	3.57	0.48	0.46	0.50	5.71	2.98	2.89	2.79
96476	30933310MH	30933290MH	Collector	25-yr	226.92	233.59	226.48	234.02	176.00	0.25	2.5	4.17	5.04	20.51	7.57	10.43	11.11	11.44	3.04	0.00	0.00	0.00	3.53	0.45	0.43	0.48
100062	30912901MH	30912901OF	Collector	25-yr	222.53	224.80	222.33	223.72	22.72	0.88	1	1.27	0.39	3.34	5.47	7.04	7.85	8.06	0.96	0.37	0.00	0.00	0.39	0.12	0.00	0.00
104862	30922430CI	Node3382	Collector	25-yr	225.71	227.67	225.42	227.72	32.00	0.28	1	0.96	1.30	1.75	1.77	2.02	2.13	2.49	0.23	0.00	0.00	0.00	0.37	0.08	0.00	0.00
104863	30922400MH	30922440MH	Collector	25-yr	225.90	228.34	224.65	227.65	112.09	1.12	1	1.44	2.00	3.76	4.14	4.61	4.74	4.85	0.50	0.00	0.00	0.00	1.31	1.06	0.97	0.88
104865	30922410MH	30922400MH	Collector	25-yr	226.22	228.72	225.90	228.34	97.66	0.31	1	1.50	1.44	1.97	1.27	1.78	2.05	2.12	0.76	0.09	0.00	0.00	0.50	0.00	0.00	0.00
104866	30922410T	30922410MH	Collector	25-yr	226.55	229.22	226.22	228.72	115.40	0.23	1	1.67	1.50	1.69	1.27	1.78	2.12	2.15	1.13	0.31	0.09	0.04	0.76	0.09	0.00	0.00
104867	30922415T	30922410T	Collector	25-yr	226.74	229.42	226.55	229.22	82.67	0.23	1	1.68	1.67	1.71	1.29	1.79	2.12	2.15	1.23	0.30	0.00	0.00	1.13	0.31	0.09	0.04
104868	30922420MH	30922415T	Collector	25-yr	226.78	229.79	226.74	229.42	19.24	0.21	1	2.01	1.68	1.62	1.31	1.79	2.14	2.48	1.57	0.63	0.30	0.24	1.23	0.30	0.00	0.00
107036	30810220MH	30810230MH	Collector	25-yr	220.97	225.20	220.30	223.57	101.89	0.69	2	2.23	1.27	18.75	7.16	8.77	10.08	11.48	2.96	2.40	1.83	1.36	1.39	0.88	0.41	0.00
120720	31030010MH	31030020MH	Collector	25-yr	229.39	234.24	228.80	233.15	280.06	0.17	2	2.85	2.35	9.46	8.10	10.55	11.76	11.70	3.03	2.19	1.63	1.22	2.02	1.39	0.87	0.42
120721	31030030MH	31030020MH	Collector	25-yr	229.72	233.54	229.39	234.24	156.01	0.07	2	1.82	2.85	6.01	8.24	10.56	11.79	11.76	2.15	1.16	0.64	0.35	3.03	2.19	1.63	1.22
120722	31030040MH	31030030MH	Collector	25-yr	230.24	233.79	229.72	233.54	314.03	0.13	2	1.55	1.82	8.27	8.38	10.56	11.81	11.80	1.96	0.73	0.18	0.06	2.15	1.16	0.64	0.35
120723	31030010MH	31030000MH	Collector	25-yr	228.80	233.15	228.31	233.95	225.60	0.28	2.5	1.85	3.14	21.68	8.04	10.50	11.82	11.75	2.02	1.39	0.87	0.42	2.83	2.23	1.74	1.30
128049	31030040CI	31030040MH	Collector	25-yr	230.54	233.85	230.24	233.79	28.74	0.17	1.5	1.81	2.05	4.38	3.09	3.74	3.96	3.96	2.00	0.77	0.20	0.08	1.96	0.73	0.18	0.06
128055	31030040MH	31030040MH	Collector	25-yr	230.53	234.45	230.24	233.79	44.48	0.20	2	1.92	1.55	10.18	3.74	5.33	7.48	9.01	2.61	1.37	0.79	0.65	1.96	0.73	0.18	0.06
128057	31030060MH	31030050MH	Collector	25-yr	231.37	236.75	230.53	234.45	397.27	0.20	1.75	3.63	2.17	7.07	2.14	3.70	4.91	6.09	4.61	3.48	2.72	2.37	2.61	1.37	0.79	0.65
128079	30940650MH	31030040CI	Collector	25-yr	230.73	233.88	230.54	233.85	88.07	0.20	1.5	1.65	1.81	4.75	3.11	3.76	4.01	4.01	1.97	0.72	0.12	0.01	2.00	0.77	0.20	0.08
128088	30940662CI	30940660MH	Collector	25-yr	231.49	234.98	231.00	234.24	53.22	0.21	1	2.49	2.24	1.62	3.16	3.82	4.12	4.20	2.41	1.01	0.24	0.09	2.10	0.80	0.10	0.00
128089	30940660MH	30940650MH	Collector	25-yr	231.00	234.24	230.73	233.88	113.72	0.24	1.25	1.99	1.90	3.15	3.15	3.79	4.06	4.11	2.10	0.80	0.10	0.00	1.97	0.72	0.12	0.01
128100	30940680MH	30940670CI	Collector	25-yr	232.06	234.85	232.04	234.98	20.39	0.10	1	1.79	1.94	1.12	0.01	-0.04	0.74	-1.18	2.07	0.58	0.00	0.00	2.20	0.71	0.07	0.00
128101	30940670CI	30940670MH	Collector	25-yr	232.04	234.98	231.74	235.35	93.26	0.24	1															

Cox Creek Watershed																										
Build-out Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
New Infrastructure																										
COX_NEW_001_L	COX_NEW_001	COX_NEW_002	Feeder	10-yr																						
COX_NEW_002_L	COX_NEW_002	COX_NEW_003	Collector	25-yr																						
COX_NEW_003_L	COX_NEW_003	Node3383	Collector	25-yr																						

Table 8.2 Cox Creek Basin Build-Out Deficiencies



L:\p\swmp\REPORT MATERIAL\GIS\Figure\_83\_North\_Albania\_Build\_Out\_Deficiencies\_11x17.mxd

- Build-Out Deficiencies
- Existing Stormdrains
- Urban Growth Boundary



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Miles

Date: 3/21/2021

# North Albany Basin Build-Out Deficiencies

Figure 8.3

NA\_NEW\_001\_L  
NA\_NEW\_002\_L  
NA\_NEW\_003\_L

NA\_NEW\_004\_L  
NA\_NEW\_005\_L  
NA\_NEW\_006\_L  
NA\_NEW\_007\_L  
NA\_NEW\_008\_L  
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NA\_NEW\_010\_L  
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NA\_NEW\_013\_L  
NA\_NEW\_014\_L  
NA\_NEW\_015\_L  
NA\_NEW\_016\_L  
NA\_NEW\_017\_L  
NA\_NEW\_018\_L

NA\_NEW\_019\_L  
NA\_NEW\_020\_L  
NA\_NEW\_021\_L  
NA\_NEW\_022\_L

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90523

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151301

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114753  
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87802

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Culv\_B\_1

Culv\_E\_1  
Culv\_E\_2

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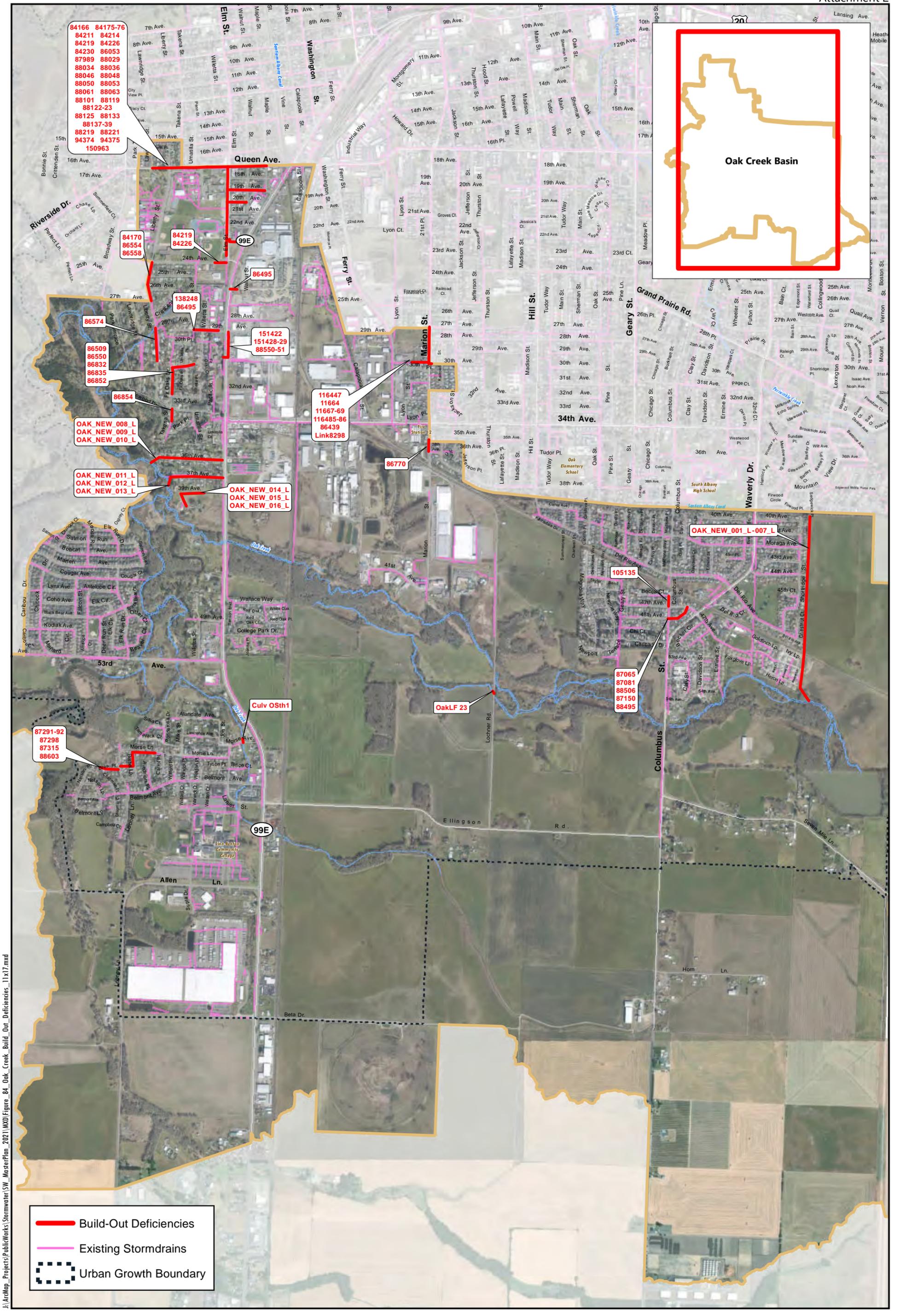
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North Albany Watershed Build-out																										
Deficiencies With Flood Control																										
xpswm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
85874	43620360FI	43620360PE	Bridge/Culvert Trunk	100-yr	267.18	270.98	262.67	268.88	193.62	2.33	1.25	2.55	4.96	9.86	7.38	8.34	9.08	9.65	1.20	0.74	0.34	0.02	5.59	5.53	5.49	5.46
Culv B 1	NA CR 129	NA CR 31	Bridge/Culvert Trunk	100-yr	200.60	211.00	200.11	210.00	19.00	2.58	3.33	7.07	6.56	131.38	30.17	31.75	33.00	34.23	2.09	1.60	1.22	0.97	1.11	0.63	0.25	0.00
Culv E 1	NA CR 12	NA CR 11	Bridge/Culvert Trunk	100-yr	236.33	240.84	236.00	239.54	10.00	8.30	1	3.51	2.54	9.53	9.56	10.11	10.21	10.26	0.01	0.00	0.00	0.00	2.22	2.20	2.20	2.20
Culv E 2	NA CR 14	NA CR 13	Bridge/Culvert Trunk	100-yr	241.52	250.00	238.03	245.00	60.40	5.78	1	7.48	5.97	7.95	9.56	10.62	10.65	10.67	1.78	0.00	0.00	0.00	4.17	3.75	3.66	3.62
89977	40120440HW	40120450PE	Bridge/Culvert Collector	100-yr	203.37	205.20	202.73	204.50	46.79	1.37	1.75	0.08	0.02	17.21	2.67	3.88	5.29	6.85	1.32	1.23	1.14	1.05	0.99	0.97	0.95	0.93
89982	40120140HW	40120140PE	Bridge/Culvert Collector	100-yr	204.07	205.50	203.51	204.80	30.19	1.86	1.25	0.18	0.04	8.17	2.67	3.88	5.29	6.86	0.94	0.82	0.70	0.56	0.79	0.68	0.57	0.46
90501	43520080HW	43520080PE	Bridge/Culvert Collector	100-yr	280.36	282.83	279.30	281.63	52.00	2.00	1	1.47	1.33	4.68	5.36	5.38	5.40	5.40	0.11	0.09	0.08	0.08	1.36	1.36	1.35	1.35
90523	43510530HW	43510530PE	Bridge/Culvert Collector	100-yr	304.65	308.00	303.61	308.00	21.00	2.57	1	2.35	3.39	5.31	3.42	5.61	7.16	7.16	2.03	1.02	0.00	0.00	3.73	3.46	3.29	3.29
5884	43510390MH	43510400T	Collector	25-yr	271.60	277.57	270.65	277.74	47.68	2.00	1.25	4.72	5.84	9.14	7.03	7.54	7.59	7.60	0.00	0.00	0.00	0.00	0.64	0.60	0.57	0.55
87637	43630460MH	43630460MH	Collector	25-yr	316.53	319.45	315.72	318.75	115.71	0.53	1	1.92	2.03	2.59	5.12	5.44	5.44	5.44	0.30	0.00	0.00	0.00	2.15	2.10	2.10	2.10
87689	43630450MH	43630460MH	Collector	25-yr	317.48	325.11	316.53	319.45	153.88	0.49	1	6.63	1.92	2.49	5.12	6.70	7.02	7.02	2.89	0.52	0.03	0.03	0.30	0.00	0.00	0.00
87700	43620040MH	43620350OF	Collector	25-yr	268.93	273.19	268.70	271.84	21.95	1.05	1	3.26	2.14	3.65	9.59	11.51	12.73	13.49	1.93	0.98	0.30	0.00	1.94	1.57	1.19	0.87
87704	43620020MH	43620020MH	Collector	25-yr	257.86	263.46	255.30	262.07	135.80	1.74	1	4.60	5.77	4.70	5.84	5.89	5.89	5.90	0.00	0.00	0.00	0.00	2.06	2.06	2.06	2.06
87723	43620010T	43610400MH	Collector	25-yr	254.99	262.01	250.63	255.73	159.51	2.74	1	6.02	4.10	5.89	5.83	5.83	5.83	5.83	2.28	2.28	2.28	2.28	0.07	0.07	0.07	0.07
87769	43610410MH	43610420ED	Collector	25-yr	245.20	252.50	242.75	251.47	106.97	2.29	1.25	6.05	7.47	9.78	6.93	6.93	6.97	6.90	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05
87776	43610390T	43610400MH	Collector	25-yr	250.96	255.85	250.63	255.73	16.90	0.45	1	3.89	4.10	2.45	4.45	4.46	4.46	4.45	0.11	0.11	0.11	0.11	0.07	0.07	0.07	0.07
87777	43610400MH	43610410MH	Collector	25-yr	250.63	255.73	245.20	252.50	198.92	2.68	1.25	3.85	6.05	10.57	8.33	8.33	8.33	8.33	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
87794	43610380MH	43610390T	Collector	25-yr	251.02	255.81	250.96	255.85	14.12	0.45	1	3.79	3.89	2.32	4.45	4.45	4.45	4.45	0.00	0.00	0.00	0.00	0.11	0.11	0.11	0.11
87802	43610380T	43610380MH	Collector	25-yr	252.37	256.25	251.02	255.81	26.33	4.37	1	2.88	3.79	7.45	4.44	4.44	4.44	4.44	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00
87825	43540140MH	43540140T	Collector	25-yr	292.07	296.65	290.14	292.92	235.10	0.82	1.5	3.08	1.28	9.52	6.35	9.78	12.14	13.35	3.60	2.11	0.64	0.01	1.04	0.41	0.00	0.00
87869	43510340X	43510360MH	Collector	25-yr	280.72	286.48	275.96	281.08	550.09	0.85	1	4.76	4.12	3.29	4.27	4.06	3.88	3.86	0.08	0.00	0.00	0.00	0.75	0.72	0.72	0.72
87870	43510360MH	43510390MH	Collector	25-yr	275.96	281.08	271.60	277.57	248.36	1.23	1	4.12	4.97	3.95	4.11	3.86	3.86	3.86	0.75	0.72	0.72	0.72	0.00	0.00	0.00	0.00
87871	43510400T	43510410MH	Collector	25-yr	270.65	277.74	269.04	277.11	445.94	0.59	1.25	5.84	6.82	4.96	7.05	7.54	7.59	7.60	0.64	0.60	0.57	0.55	4.43	4.05	3.74	3.47
87880	43510640MH	43510650MH	Collector	25-yr	276.57	279.10	276.00	279.43	44.86	1.05	1.5	1.03	1.93	10.75	1.71	2.05	2.38	2.68	0.79	0.51	0.27	0.07	1.12	0.84	0.61	0.40
87883	43510320MH	43510320T	Collector	25-yr	281.58	287.31	281.21	286.72	123.50	0.30	1	4.73	4.51	1.96	1.43	1.87	2.15	2.15	0.37	0.27	0.16	0.16	0.00	0.00	0.00	0.00
87886	43510320T	43510310MH	Collector	25-yr	281.21	286.72	280.98	287.01	48.66	0.30	1	4.51	5.03	1.96	0.99	-1.68	-2.25	-2.79	0.00	0.00	0.00	0.00	0.24	0.19	0.11	0.01
87887	43510310MH	43510340X	Collector	25-yr	280.98	287.01	280.72	286.48	31.02	0.85	1	5.03	4.76	3.26	4.46	4.36	4.33	4.76	0.24	0.19	0.11	0.01	0.08	0.00	0.00	0.00
87909	43510650MH	43510650OF	Collector	25-yr	276.00	279.43	275.57	278.57	49.84	0.86	2	1.43	1.00	21.01	1.69	2.04	2.37	2.68	1.12	0.84	0.61	0.40	0.26	0.00	0.00	0.00
87916	43620700MH	43510460MH	Collector	25-yr	275.99	279.64	275.40	279.44	281.75	0.19	1	2.65	3.04	1.53	3.49	3.49	3.49	3.50	0.00	0.00	0.00	0.00	2.05	1.44	0.90	0.43
88557	43510380MH	43510390T	Collector	25-yr	273.45	281.60	272.98	280.70	118.62	0.40	1	7.15	6.72	2.24	3.23	5.36	6.11	6.11	2.97	0.90	0.00	0.00	2.92	2.52	2.34	2.34
90222	43620130HW	43620130PE	Collector	25-yr	266.04	268.40	266.04	268.40	31.00	0.00	2	0.36	0.36	0.72	11.61	11.61	11.61	11.61	0.28	0.28	0.28	0.28	1.31	1.31	1.31	1.31
90238	43620150HW	43620150PE	Collector	25-yr	258.52	261.39	258.03	261.39	32.50	1.51	2	0.87	1.36	27.78	11.61	11.61	11.61	11.61	0.81	0.81	0.81	0.81	2.55	2.55	2.55	2.55
90240	43620160HW	43620160PE	Collector	25-yr	255.86	258.08	255.06	258.08	32.53	2.46	2	0.22	1.02	35.48	11.61	11.61	11.61	11.61	0.17	0.17	0.17	0.17	2.21	2.21	2.21	2.21
90281	43620120HW	43620120PE	Collector	25-yr	269.78	272.10	269.17	272.10	50.42	1.21	1.75	0.57	1.18	17.43	11.61	11.61	11.61	11.61	0.00	0.00	0.00	0.00	1.90	1.90	1.90	1.90
91852	33130010HW	33130010PE	Collector	25-yr	191.31	194.00	190.83	207.00	41.68	1.15	1.5	1.19	14.67	11.27	17.14	20.10	22.51	24.51	0.60	0.00	0.00	0.00	15.77	15.62	15.44	15.05
94656	43610940MH	43610950MH	Collector	25-yr	242.62	247.89	240.54	245.57	152.64	1.30	1	4.27	4.03	4.06	5.46	5.96	6.00	6.04	1.62	0.00	0.00	0.00	2.79	1.61	1.47	1.33
94657	43610930MH	43610940MH	Collector	25-yr	249.99	256.75	242.62	247.89	251.96	2.87	1	5.76	4.27	6.03	5.48	6.90	6.90	6.90	4.66	0.00	0.00	0.00	1.62	0.00	0.00	0.00
94658	43610920MH	43610930MH	Collector	25-yr	275.55	283.09	249.99	256.75	327.03	7.73	1	6.54	5.76	9.91	2.60	3.54	4.31	5.07	7.19	7.13	7.08	7.02	4.66	0.00	0.00	0.00
94862	43540700HW	43540700MH	Collector	25-yr	281.00	283.68	280.56	284.24	25.99	1.31	1.25	1.43	2.43	7.39	9.49	9.49	9.49	9.49	0.00	0.00	0.00	0.00	1.11	1.11	1.11	1.11
95446	43540140T	43540140Ta	Collector	25-yr	290.14	292.92	290.15	294.12	44.63	-0.02	1.5	1.28	2.47	1.57	6.35	9.79	10.94	11.13	1.04	0.41	0.00	0.00	2.38	1.99	1.61	1.58
96843	43510850MH	43510860MH	Collector	25-yr	279.04	282.24	278.29	282.94	300.03	0.23	1.5	1.70	3.15	5.07	3.61	4.17	4.23	4.26	1.15	0.27	0.25	0.25	2.20	1.35	1.16	1.05
96844	43510850MH	43510870MH	Collector	25-yr	279.65	282.00	279.04	282.24	20.85	2.54	1.5	0.85	1.70	16.75	3.62	4.19	4.28	4.33	0.90	0.00	0.00	0.00	1.15	0.27	0.25	0.25
96849	43510900MH	43510880MH	Collector	25-yr	280.26	283.68	278.69	282.99	318.38	0.40	1.25	2.17	3.05	4.06	3.63	4.44	4.95	4.94	2.35	0.82	0.00	0.00	2.60	1.60	1.00	0.81
96850	43510910MH	43510900MH	Collector	25-yr	281.47	285.41	280.26	283.68	280.99	0.41	1.25	2.69	2.17	4.15	2.47	2.99	3.48	3.97	3.22	1.95	0.93	0.69	2.35	0.82	0.00	0.00
101454	42530970MH	42530960MH	Collector	25-yr	270.76	276.16	270.04	281.74	177.60	0.41	1	4.40	10.70	2.27	4.53	4.55	4									

North Albany Watershed Build-out																										
Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
NA NEW 007 L	NA NEW 005	NA NEW 004	Collector	25-yr																						
NA NEW 008 L	NA NEW 006	NA NEW 005	Collector	25-yr																						
NA NEW 009 L	NA NEW 007	NA NEW 006	Collector	25-yr																						
NA NEW 010 L	NA NEW 008	NA NEW 007	Collector	25-yr																						
NA NEW 011 L	NA NEW 009	NA NEW 007	Collector	25-yr																						
NA NEW 012 L	NA NEW 010	NA NEW 009	Collector	25-yr																						
NA NEW 013 L	NA NEW 011	NA NEW 010	Collector	25-yr																						
NA NEW 014 L	NA NEW 012	NA NEW 011	Collector	25-yr																						
NA NEW 015 L	NA NEW 013	NA NEW 009	Collector	25-yr																						
NA NEW 016 L	NA NEW 014	NA NEW 013	Collector	25-yr																						
NA NEW 017 L	NA NEW 015	NA NEW 014	Collector	25-yr																						
NA NEW 018 L	NA NEW 016	NA NEW 015	Collector	25-yr																						
NA NEW 019 L	NA NEW 022	NA NEW 021	Collector	25-yr																						
NA NEW 020 L	NA NEW 023	NA NEW 022	Collector	25-yr																						
NA NEW 021 L	NA NEW 024	NA NEW 023	Collector	25-yr																						
NA NEW 022 L	NA NEW 025	NA NEW 023	Collector	25-yr																						

Table 8.3 North Albany Basin Build-Out Deficiencies



J:\ArcMap\_Projects\PublicWorks\Stormwater\SW\_MasterPlan\_2021\MXD\Figure\_84\_Oak\_Creek\_Build\_Out\_Deficiencies\_11x17.mxd



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Date: 3/18/2021

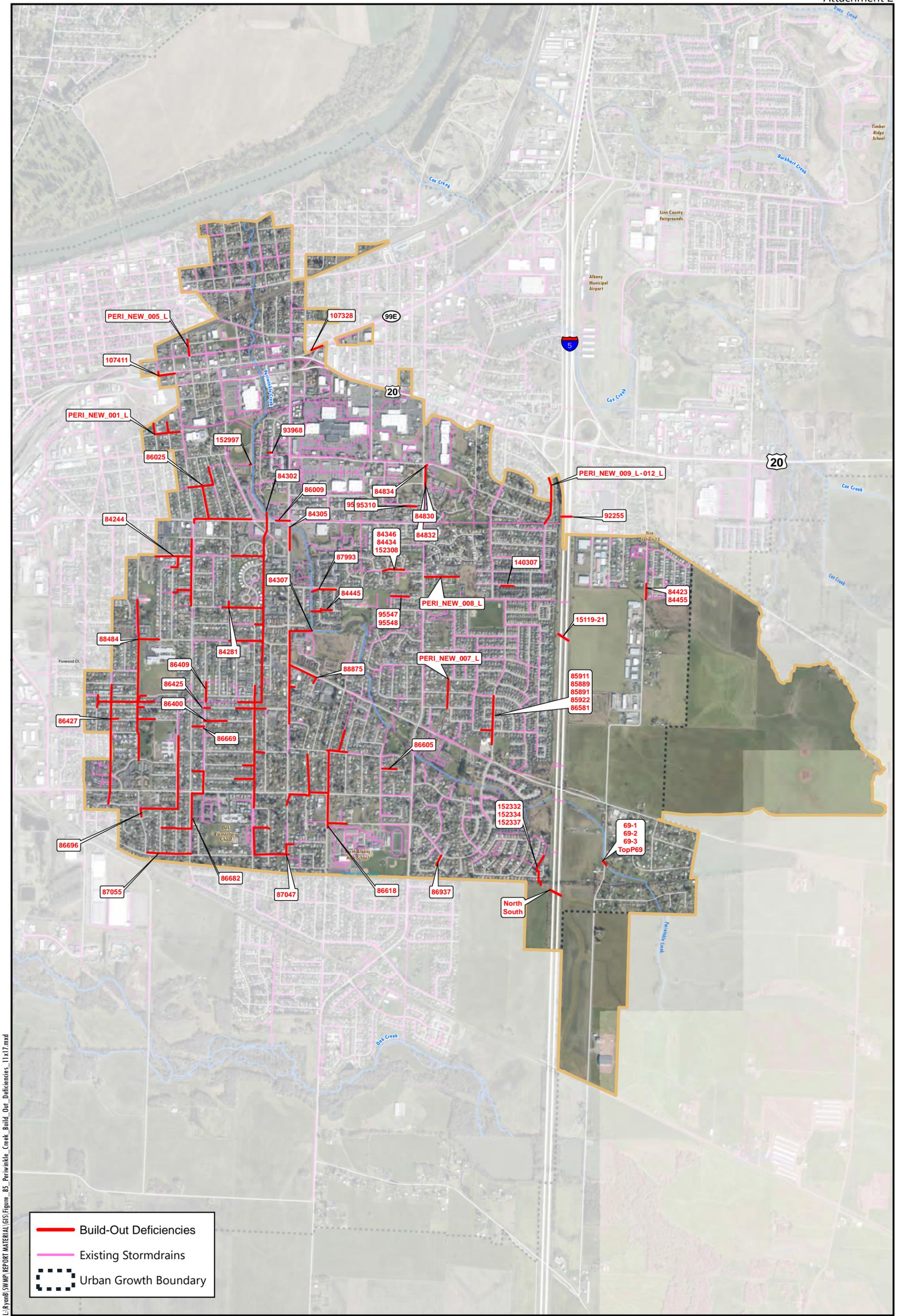
# Oak Creek Basin Build-Out Deficiencies

Figure 8.4

Oak Creek Watershed																										
Build-out Deficiencies With Flood Control																										
xpswm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
Culv OSth1	42440580HW	42440520OF	Bridge/Culvert Trunk	100-yr	214.13	221.86	213.93	223.40	65.55	0.31	3	4.73	6.47	34.21	71.49	88.43	95.97	101.42	2.63	1.13	0.39	0.00	7.23	7.02	6.93	6.85
OakLF 23	31942700PE	31942830HW	Bridge/Culvert Trunk	100-yr	211.66	220.70	214.24	223.10	74.61	-3.46	0	9.04	8.86	20734.13	525.69	847.02	1159.28	1625.87	3.37	2.33	1.58	0.84	5.77	4.73	3.99	3.25
84175	41310050MH	41310050CB	Collector	25-yr	208.89	214.34	208.82	214.02	94.73	0.07	2	3.45	3.20	6.15	9.63	9.34	9.10	9.00	0.92	0.89	0.82	0.73	0.73	0.68	0.61	0.52
84176	41310010CB	41310010MH	Collector	25-yr	209.30	213.76	209.11	213.41	14.87	1.01	2	2.46	2.30	22.72	5.11	5.62	6.00	6.35	0.34	0.34	0.34	0.34	0.00	0.00	0.00	0.00
84211	41310050CB	41310070MH	Collector	25-yr	208.82	214.02	208.69	213.36	165.11	0.08	2	3.20	2.67	6.35	9.62	9.34	9.09	9.00	0.73	0.68	0.61	0.52	0.27	0.19	0.12	0.02
84214	41310010MH	41310050MH	Collector	25-yr	209.11	213.41	208.89	213.34	272.97	0.08	2	2.30	3.45	6.42	4.64	4.60	4.57	-6.07	0.00	0.00	0.00	0.00	0.92	0.89	0.82	0.73
84219	41310110MH	41310580MH	Collector	25-yr	211.18	214.35	210.58	214.64	107.10	0.56	1	2.17	3.06	2.67	3.63	3.52	3.43	3.38	0.00	0.00	0.00	0.00	1.06	0.98	0.92	0.87
84226	41310580MH	41310090MH	Collector	25-yr	210.58	214.64	208.41	214.85	114.94	0.63	1	3.06	5.44	2.82	3.63	3.52	3.43	3.38	1.06	0.98	0.92	0.87	2.10	1.93	1.81	1.70
84230	41310070MH	41310080MH	Collector	25-yr	208.69	213.36	208.47	214.85	314.36	0.07	2	2.67	4.38	5.98	9.50	9.28	9.11	9.23	0.27	0.19	0.12	0.02	2.00	1.85	1.75	1.64
86053	41241440MH	41240840MH	Collector	25-yr	209.57	214.20	209.59	214.11	56.00	-0.04	2	2.63	2.52	4.28	3.10	3.45	3.71	3.98	0.60	0.56	0.52	0.48	0.52	0.48	0.45	0.41
86439	31840870MH	31830810MH	Collector	25-yr	217.56	224.67	217.23	226.85	336.02	0.10	2	5.11	7.62	7.09	4.58	5.66	5.69	5.78	4.52	0.65	0.33	0.22	6.84	2.94	2.51	2.39
86495	41310530MH	41310470MH	Collector	25-yr	210.97	213.85	210.16	213.98	270.59	0.30	0.833	2.05	2.99	1.20	2.27	2.27	2.27	2.27	0.00	0.00	0.00	0.00	2.75	2.62	2.51	2.27
86509	41340430CI	41340220CB	Collector	25-yr	212.27	214.28	211.80	214.50	124.81	0.38	0.833	1.18	1.87	1.25	0.95	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.47
86550	41340040CB	41340200MH	Collector	25-yr	211.79	213.95	209.05	214.45	265.42	1.03	0.833	1.33	4.57	2.06	0.94	0.94	0.94	0.94	0.01	0.01	0.01	0.01	1.06	1.05	1.05	1.04
86554	41320390MH	41320390MH	Collector	25-yr	213.63	216.47	211.11	216.42	331.68	0.16	1.25	1.59	4.06	2.58	4.43	4.63	4.77	4.93	0.86	0.72	0.60	0.48	4.37	4.28	3.95	2.84
86558	41320360MH	41320380MH	Collector	25-yr	214.51	216.50	213.63	216.47	176.51	0.50	1	0.99	1.84	2.52	2.65	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.86	0.72	0.60	0.48
86574	41340010MH	41310280MH	Collector	25-yr	210.40	214.44	206.15	213.70	655.29	0.29	1	3.04	6.55	1.90	2.79	3.20	3.20	3.20	1.08	0.00	0.00	0.00	5.54	5.16	4.92	4.71
86770	31840610MH	31840610CB	Collector	25-yr	221.71	226.90	220.53	226.06	233.64	0.42	1.25	3.94	4.28	4.18	7.23	7.24	7.23	7.23	0.00	0.00	0.00	0.00	1.99	1.99	1.99	1.99
86832	41340160CB	41340190CB	Collector	25-yr	212.10	215.90	211.08	213.50	445.82	0.18	0.833	2.97	1.59	0.86	1.52	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86835	41340190CB	41340200MH	Collector	25-yr	211.08	213.50	209.05	214.45	77.73	0.46	0.833	1.59	4.57	1.38	1.05	1.04	1.04	1.04	0.00	0.00	0.00	0.00	1.06	1.05	1.05	1.04
86852	41340200CB	41340040CB	Collector	25-yr	211.80	214.50	211.79	213.95	40.61	0.03	0.833	1.87	1.33	0.32	0.94	0.94	0.94	0.94	0.48	0.48	0.48	0.47	0.01	0.01	0.01	0.01
86854	41340120MH	41340110MH	Collector	25-yr	213.00	216.42	211.75	217.75	246.78	0.51	0.833	2.59	5.17	1.56	2.14	2.20	2.20	2.20	0.22	0.00	0.00	0.00	3.83	3.72	3.71	3.71
87065	32010040MH	32011020T	Collector	25-yr	232.32	236.12	232.27	237.02	13.57	0.37	1.25	2.55	2.50	3.92	3.33	3.97	4.49	5.04	0.06	0.05	0.04	0.02	0.00	0.00	0.00	0.00
87081	32011020T	32011010T	Collector	25-yr	232.27	236.02	232.11	236.36	43.77	0.37	1.25	2.50	3.00	3.91	3.09	3.11	2.88	2.89	0.00	0.00	0.00	0.00	0.42	0.41	0.40	0.39
87150	32010010MH	32020480MH	Collector	25-yr	231.26	236.38	230.36	238.31	194.00	0.40	1.25	3.87	6.70	4.07	2.98	2.93	2.87	2.86	0.87	0.81	0.73	0.66	3.14	3.04	2.90	2.80
87291	42520010CB	42520010OF	Collector	25-yr	211.08	213.88	210.59	215.50	122.52	0.40	1.5	1.30	3.41	6.17	6.95	7.43	7.78	8.20	1.01	0.79	0.61	0.45	2.64	2.43	2.25	2.09
87292	42520260CB	42520030CB	Collector	25-yr	215.57	218.78	213.11	216.36	254.78	0.95	1	2.21	2.25	3.22	4.18	4.18	4.17	4.19	0.00	0.00	0.00	0.00	1.50	1.30	1.06	0.87
87315	42520320MH	42520010CB	Collector	25-yr	212.29	216.10	211.08	213.88	238.09	0.40	1.25	2.56	1.55	3.81	5.55	5.74	5.86	6.01	1.76	1.53	1.26	1.05	1.01	0.79	0.61	0.45
88029	41241140MH	41241180MH	Collector	25-yr	214.51	216.00	213.16	216.00	269.25	0.50	1	0.49	1.84	2.52	1.63	1.62	1.65	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88034	41241100MH	41241140MH	Collector	25-yr	215.66	217.00	214.51	216.00	229.19	0.50	0.833	0.51	0.66	1.55	1.43	1.42	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88050	41241250MH	41240800MH	Collector	25-yr	210.81	213.64	210.00	214.42	382.12	0.15	0.833	2.00	3.59	0.84	1.21	1.32	1.31	1.30	0.00	0.00	0.00	0.00	0.75	0.69	0.63	0.58
88053	41241180MH	41241190T	Collector	25-yr	213.16	216.00	212.04	216.00	224.68	0.50	0.833	2.01	3.13	1.55	1.64	1.65	1.66	1.67	0.00	0.00	0.00	0.00	0.83	0.77	0.71	0.65
88061	41241200T	41240800MH	Collector	25-yr	211.54	215.10	210.00	214.42	307.10	0.50	0.833	2.73	3.59	1.55	1.64	1.65	1.66	1.67	0.32	0.27	0.23	0.18	0.75	0.69	0.63	0.58
88063	41241190T	41241200T	Collector	25-yr	212.04	216.00	211.54	215.10	99.08	0.50	0.833	3.13	2.73	1.55	1.64	1.65	1.66	1.67	0.83	0.77	0.71	0.65	0.32	0.27	0.23	0.18
88119	41240800MH	41240820MH	Collector	25-yr	210.00	214.42	209.95	214.05	213.88	0.02	2	2.42	2.10	3.46	3.10	3.44	3.71	3.97	0.75	0.69	0.63	0.58	0.42	0.36	0.32	0.28
88122	41240930MH	41240950MH	Collector	25-yr	209.45	213.69	209.34	213.86	111.12	0.10	2	2.24	2.52	7.12	3.75	4.23	4.60	4.99	0.14	0.11	0.08	0.06	0.34	0.32	0.30	0.28
88123	41240840MH	41240930MH	Collector	25-yr	209.59	214.11	209.45	213.69	134.14	0.24	2	2.52	2.24	11.05	3.75	4.22	4.60	4.99	0.52	0.48	0.45	0.41	0.14	0.11	0.08	0.06
88133	41240820MH	41241440MH	Collector	25-yr	209.95	214.05	209.57	214.20	188.94	0.11	2	2.10	2.63	7.54	3.10	3.44	3.71	3.97	0.42	0.36	0.32	0.28	0.60	0.56	0.52	0.48
88137	41240950MH	41241010CB	Collector	25-yr	209.34	213.86	209.38	213.90	103.08	0.06	2	2.52	2.52	5.46	5.10	5.62	6.00	6.35	0.34	0.32	0.30	0.28	0.43	0.42	0.41	0.40
88138	41241010CB	41310010CB	Collector	25-yr	209.38	213.90	209.30	213.76	99.19	0.06	2	2.52	2.46	5.56	5.10	5.62	6.00	6.35	0.43	0.42	0.41	0.40	0.34	0.34	0.34	0.34
88495	32010020MH	32010010MH	Collector	25-yr	231.88																					

Oak Creek Watershed																									
Build-out Deficiencies With Flood Control																									
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node			
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.
OAK NEW 011 L	OAK NEW 011	Crk Oak 23	Collector	25-yr																					
OAK NEW 012 L	OAK NEW 012	OAK NEW 011	Collector	25-yr																					
OAK NEW 013 L	OAK NEW 013	OAK NEW 012	Collector	25-yr																					
OAK NEW 014 L	OAK NEW 014	4241052OF	Collector	25-yr																					
OAK NEW 015 L	OAK NEW 015	OAK NEW 014	Collector	25-yr																					
OAK NEW 016 L	OAK NEW 016	OAK NEW 014	Collector	25-yr																					

Table 8.4 Oak Creek Basin Build-Out Deficiencies



- Build-Out Deficiencies
- Existing Stormdrains
- Urban Growth Boundary

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Miles

# Periwinkle Creek Basin Build-Out Deficiencies

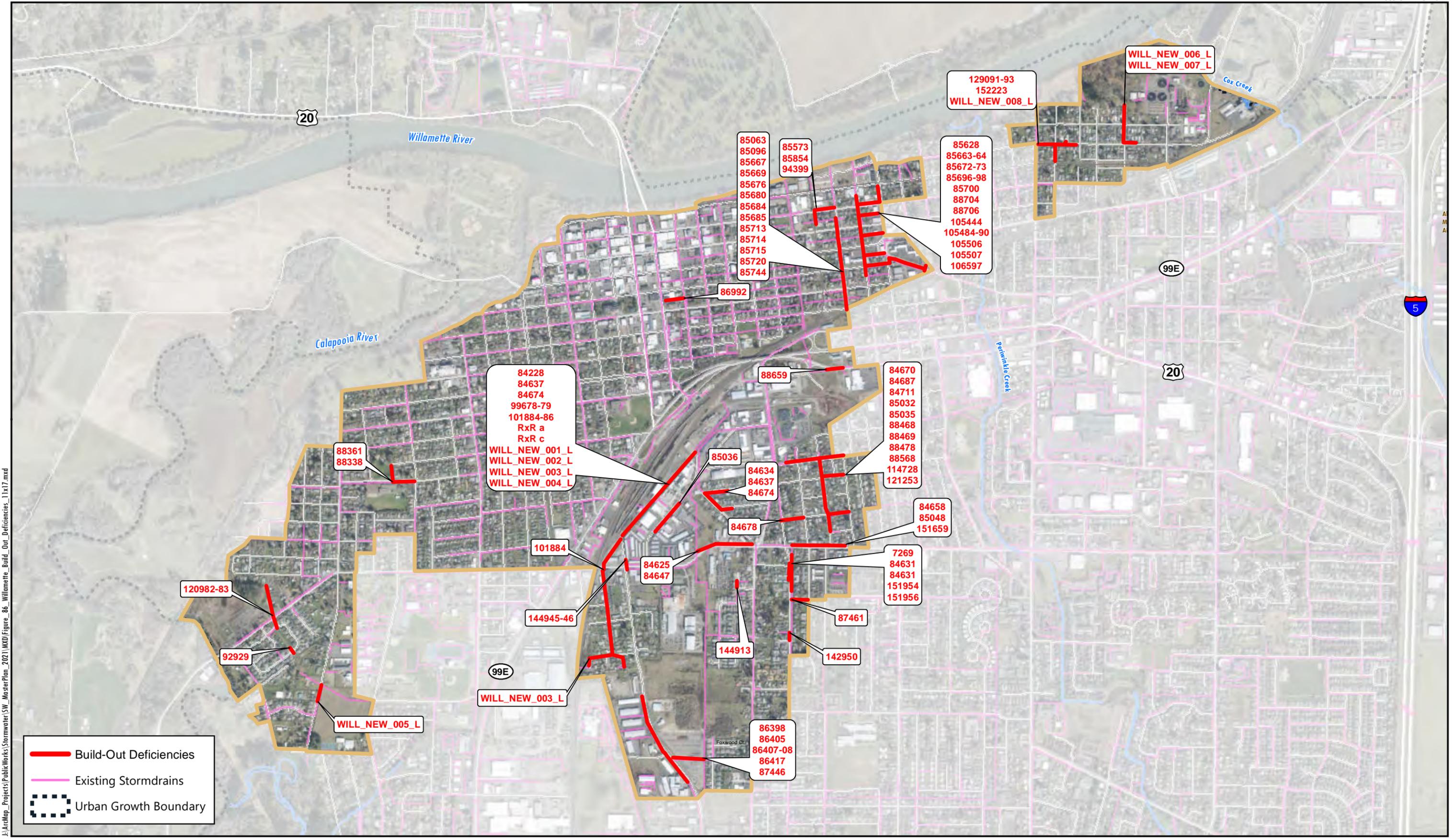
Date: 3/21/2021

Figure 8.5

Periwinkle Creek Watershed Build-out																										
Deficiencies With Flood Control																										
xpswm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
15119	Crk P 26	Crk P 25	Bridge/Culvert Trunk	100-yr	234.66	239.79	234.07	239.61	225.00	0.26	2	3.13	3.54	6.27	5.06	9.19	12.19	15.35	3.77	2.76	1.49	0.06	4.98	4.69	3.90	3.32
92255	30930260HW	30930260PE	Bridge/Culvert Trunk	100-yr	229.93	233.20	228.73	232.00	212.00	0.57	3	0.27	0.27	50.18	19.98	24.93	29.64	34.11	1.83	1.53	1.49	0.76	1.17	0.74	0.35	0.00
151120	Crk P 26	Crk P 25	Bridge/Culvert Trunk	100-yr	234.34	239.79	233.74	239.61	225.00	0.27	2	3.45	3.87	6.33	6.94	9.90	13.02	16.08	3.77	2.76	1.49	0.06	4.98	4.69	3.90	3.32
151121	Crk P 26	Crk P 25	Bridge/Culvert Trunk	100-yr	234.52	239.79	233.83	239.61	225.00	0.31	2	3.27	3.78	6.79	6.15	9.59	12.72	15.85	3.77	2.76	1.49	0.06	4.98	4.69	3.90	3.32
69-1	Crk P 19	Crk P 18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	3	3.85	4.08	33.80	47.64	50.96	51.47	51.76	0.88	0.33	0.21	0.00	2.45	1.66	1.40	1.26
69-2	Crk P 19	Crk P 18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	4	2.85	3.08	72.79	91.39	97.68	98.64	99.23	0.88	0.33	0.21	0.00	2.45	1.66	1.40	1.26
69-3	Crk P 19	Crk P 18	Bridge/Culvert Trunk	100-yr	231.75	238.60	231.42	238.50	110.81	0.30	3	3.85	4.08	33.80	47.64	50.96	51.47	51.76	0.88	0.33	0.21	0.00	2.45	1.66	1.40	1.26
North	Peri n HW	Crk P n	Bridge/Culvert Trunk	100-yr	237.11	243.00	236.24	243.00	245.00	0.36	2	3.89	4.76	7.30	7.75	11.29	15.02	16.68	4.15	1.99	0.00	0.00	5.26	3.79	3.52	3.52
South	Peri n HW	Crk P n	Bridge/Culvert Trunk	100-yr	237.23	243.00	236.09	243.00	245.00	0.47	2	3.77	4.91	8.36	7.82	11.27	14.97	16.56	4.15	1.99	0.00	0.00	5.26	3.79	3.52	3.52
Top P69	Crk P 19	Crk P 18	Bridge/Culvert Trunk	100-yr	238.00	238.60	237.00	238.50	110.81	0.90	0.5	0.10	1.00	99.38	0.00	55.66	104.24	129.93	0.88	0.33	0.21	0.00	2.45	1.66	1.40	1.26
84251	31720880MH	31720590MH	Trunk	50-yr	211.60	223.46	211.60	223.59	6.28	0.00	4.5	7.36	7.49	6.22	90.91	83.81	98.58	98.34	0.74	0.23	0.01	0.30	0.98	0.47	0.57	0.73
84256	31720600MH	31720880MH	Trunk	50-yr	211.92	224.32	211.60	223.46	319.08	0.10	4.5	7.90	7.36	62.28	62.47	68.43	64.31	72.44	1.41	0.89	0.84	1.04	0.74	0.23	0.01	0.30
84275	31720590MH	30830210MH	Trunk	50-yr	211.60	223.59	210.63	221.09	1031.86	0.09	4.5	7.49	5.96	60.29	102.26	102.16	99.95	101.61	0.98	0.47	0.57	0.73	1.56	0.91	0.77	0.00
84302	30830210MH	30830090MH	Trunk	50-yr	210.63	221.09	210.18	220.39	376.76	0.12	4.5	5.96	5.71	67.96	121.99	122.39	122.87	123.26	1.56	0.91	0.77	0.00	2.04	1.69	1.60	1.29
84717	30830510MH	30830100CB	Trunk	50-yr	210.08	218.22	209.91	218.10	164.29	0.10	4.5	3.64	3.69	63.26	123.83	124.92	125.33	124.52	0.39	0.00	0.00	0.00	0.81	0.42	0.15	0.15
84720	30830100CB	30830110CB	Trunk	50-yr	209.91	218.10	209.85	218.63	56.93	0.11	4.5	3.69	4.28	63.84	124.05	125.20	125.41	124.57	0.81	0.42	0.15	0.15	1.56	1.20	0.78	0.81
84725	30830520MH	30830510MH	Trunk	50-yr	210.13	219.48	210.08	218.22	44.47	0.11	4.5	4.85	3.64	65.94	123.36	124.52	125.06	124.56	1.50	1.07	1.08	0.93	0.39	0.00	0.00	0.00
84726	30830110CB	30830580OF	Trunk	50-yr	209.85	218.63	209.70	228.00	139.91	0.11	4.5	4.28	13.80	64.39	131.59	133.91	134.61	134.31	1.56	1.20	0.78	0.81	11.53	11.11	10.72	10.46
84727	30830480X	30830470T	Trunk	50-yr	210.44	219.61	210.26	227.20	188.80	0.10	6	3.17	10.94	130.77	85.86	105.00	120.11	131.83	2.05	1.38	0.68	0.14	9.66	9.00	8.32	7.80
85041	30830090MH	30830520MH	Trunk	50-yr	210.18	220.39	210.13	219.48	98.04	0.05	4.5	5.71	4.85	44.41	121.87	122.71	123.20	123.07	2.04	1.69	1.60	1.29	1.50	1.07	1.08	0.93
85042	30830460T	30830480X	Trunk	50-yr	210.26	220.16	209.92	219.61	91.49	0.37	6	3.90	3.69	258.18	85.96	105.11	120.36	131.80	2.58	1.91	1.21	0.63	2.05	1.38	0.68	0.14
86278	31720240MH	31720230MH	Trunk	50-yr	213.19	224.26	212.67	224.00	401.04	0.13	4.5	6.57	6.83	70.81	58.13	58.93	54.92	65.65	0.83	0.72	0.45	0.49	0.75	0.49	0.29	0.35
86279	31720230MH	31720220MH	Trunk	50-yr	212.67	224.00	212.28	224.21	429.77	0.09	4.5	6.83	7.43	59.24	58.11	59.29	56.44	64.71	0.75	0.49	0.29	0.35	1.18	0.78	0.63	0.88
86280	31720220MH	31720600MH	Trunk	50-yr	212.25	224.21	211.92	224.32	329.43	0.10	4.5	7.46	7.90	62.24	60.85	62.63	61.02	67.56	1.18	0.78	0.63	0.88	1.41	0.89	0.84	1.04
86304	31720350MH	31720240MH	Trunk	50-yr	213.51	223.80	213.19	224.26	399.36	0.08	4.5	5.79	6.57	55.67	58.06	57.35	54.32	64.80	0.24	0.10	0.00	0.00	0.83	0.72	0.45	0.49
86305	31720300MH	31720350MH	Trunk	50-yr	213.63	224.01	213.51	223.80	149.45	0.08	4.5	5.88	5.79	55.72	57.25	56.58	53.23	62.54	0.41	0.25	0.15	0.15	0.24	0.10	0.00	0.00
86320	31720310MH	31720300MH	Trunk	50-yr	215.50	224.38	215.00	224.01	123.66	0.40	1.75	7.13	7.26	10.08	14.63	14.28	13.69	14.36	0.57	0.36	0.31	0.21	0.41	0.25	0.15	0.15
86352	31720170MH	31720300MH	Trunk	50-yr	214.47	225.28	214.13	224.01	320.67	0.11	4	6.81	5.88	46.77	41.56	41.10	38.83	47.68	1.56	1.37	1.34	1.25	0.41	0.25	0.15	0.15
86409	31810040MH	31810040MH	Trunk	50-yr	218.10	225.40	218.05	228.35	43.05	0.12	2.25	5.05	8.05	10.55	21.44	20.54	18.31	17.89	0.48	0.27	0.19	0.19	3.50	3.28	3.20	3.19
86462	31810510MH	31810515MH	Trunk	50-yr	218.55	225.60	218.52	225.58	22.00	0.16	2.25	4.80	4.81	11.44	19.93	19.29	16.53	15.68	0.20	0.03	0.00	0.00	0.20	0.03	0.00	0.00
86692	31730180MH	31730150MH	Trunk	50-yr	218.74	223.56	217.42	223.65	292.24	0.45	1.75	3.07	4.48	10.65	11.38	11.54	11.61	11.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86701	31730150MH	31720320MH	Trunk	50-yr	217.42	223.65	216.52	224.47	290.90	0.31	1.75	4.48	6.20	8.81	11.39	11.56	11.52	11.90	0.00	0.00	0.00	0.00	0.47	0.26	0.10	0.01
86705	31720320MH	31720310MH	Trunk	50-yr	216.52	224.47	215.50	224.38	261.21	0.39	1.75	6.20	7.13	9.90	11.82	11.88	11.90	12.24	0.47	0.26	0.10	0.01	0.57	0.36	0.31	0.21
86733	31730200MH	31730180MH	Trunk	50-yr	219.53	226.04	218.74	223.56	274.43	0.29	1.5	5.01	3.32	5.64	9.96	10.07	10.26	10.30	0.49	0.27	0.12	0.00	0.00	0.00	0.00	0.00
86734	31730250MH	31730200MH	Trunk	50-yr	220.61	227.20	219.53	226.04	270.19	0.40	1.5	5.09	5.01	6.64	8.24	8.27	8.02	7.92	0.81	0.66	0.55	0.46	0.49	0.27	0.12	0.00
152332	32120050MH	31632080MH	Trunk	50-yr	230.36	238.49	230.27	237.11	87.71	0.10	2	6.13	4.84	7.25	16.88	18.46	18.56	18.61	2.46	1.44	1.34	1.28	1.56	0.63	0.54	0.48
152333	32120040MH	32120050MH	Trunk	50-yr	230.40	237.50	230.36	238.49	42.99	0.10	2	5.10	6.13	6.90	16.88	18.46	18.56	18.61	1.23	0.17	0.07	0.01	2.46	1.44	1.34	1.28
152334	32120030CB	32120040MH	Trunk	50-yr	230.50	236.46	230.40	237.50	101.64	0.10	2	3.96	5.10	7.10	16.88	18.46	18.56	18.61	0.00	0.00	0.00	0.00	1.23	0.17	0.07	0.01
152335	32120020MH	32120030CB	Trunk	50-yr	230.60	238.52	230.50	236.46	102.94	0.10	2	5.92	3.96	7.05	14.20	17.03	17.87	17.19	1.31	0.02	0.00	0.00	0.00	0.00	0.00	0.00
152336	32120010MH	32120020MH	Trunk	50-yr	230.65	238.10	230.60	238.52	49.48	0.10	2	5.45	5.92	7.19	14.20	17.03	19.44	19.44	0.70	0.00	0.00	0.00	1.31	0.02	0.00	0.00
152337	Crk P o	32120010MH	Trunk	50-yr	235.12	239.47	234.64	238.10	66.00	0.73	2	2.35	1.46	19.29	14.20	18.21	21.59	21.32	1.75	0.26	0.00	0.00	0.70	0.00	0.00	0.00
152348a	31632080MH	T1	Trunk	50-yr	230.27	237.11	230.02	236.34	254.13	0.10	2	4.84	4.32	7.10	16.88	18.46	18.56	18.61	1.56	0.63	0.54	0.48	2.18	1.51	1.44	1.39
86462a	31810515MH	31810030MH	Trunk	50-yr	218.52	225.58	218.10	225.40	263.98	0.16	2.25	4.81	5.05	12.35	21.49	20.60	18.47	17.98	0.20	0.03	0.00	0.00	0.48	0.27	0.19	0.19
84243	30740090T	30740100MH	Collector	25-yr	223.22	227.75	222.92	228.91	47.64	0.63	0.667	3.86	5.32	0.96	1.33	1.31	1.53	1.47	0.84	0.43	0.19	0.00	2.37	1.93		

Periwinkle Creek Watershed Build-out																										
Deficiencies With Flood Control																										
xpswm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
86295	31720380CB	31720460CB	Collector	25-yr	220.50	223.85	220.11	223.68	260.08	0.15	2	1.35	1.57	8.76	4.57	5.44	6.22	7.22	0.93	0.54	0.31	0.21	0.85	0.39	0.33	0.31
86297	31720460CB	31720455MH	Collector	25-yr	220.11	223.68	219.97	223.28	91.74	0.15	2	1.57	1.31	8.84	4.57	5.44	6.21	7.22	0.85	0.39	0.33	0.31	0.48	0.00	0.00	0.00
86299	31720410CB	31720400MH	Collector	25-yr	219.40	223.30	218.73	224.00	50.14	1.34	2	1.90	3.27	26.15	5.55	5.31	6.52	6.74	0.72	0.07	0.03	0.02	1.44	0.78	0.73	0.72
86309	31720450CB	31720440CB	Collector	25-yr	217.76	223.64	216.82	223.40	359.25	0.26	2	3.88	4.58	11.57	12.25	12.26	12.14	11.97	1.28	0.49	0.43	0.40	1.62	0.58	0.43	0.33
86310	31720400MH	31720450CB	Collector	25-yr	218.73	224.00	217.76	223.64	75.31	1.29	2	3.27	3.88	25.67	12.26	12.28	12.15	11.98	1.44	0.78	0.73	0.72	1.28	0.49	0.43	0.40
86322	31810690CB	31810650MH	Collector	25-yr	224.60	227.95	224.35	227.94	33.88	0.74	1.25	2.10	2.34	5.55	2.66	2.72	2.61	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86323	31720140MH	31720010MH	Collector	25-yr	221.50	225.50	220.24	226.80	450.86	0.28	0.833	3.17	5.73	1.16	1.56	1.62	1.61	1.54	0.00	0.00	0.00	0.00	2.83	2.66	2.58	2.58
86327	31720030MH	31720020MH	Collector	25-yr	221.00	225.61	220.65	226.43	117.17	0.30	0.833	3.78	4.95	1.20	2.17	2.58	2.79	2.93	0.79	0.06	0.00	0.00	2.50	2.32	2.23	2.22
86335	31720440CB	31720580MH	Collector	25-yr	216.82	223.40	216.14	222.67	324.85	0.21	2	4.58	4.53	10.35	12.24	12.26	12.13	11.96	1.62	0.58	0.43	0.33	1.10	0.14	0.00	0.00
86354	31720250MH	31720290MH	Collector	25-yr	219.12	222.57	217.66	223.73	254.02	0.57	0.833	2.62	5.24	1.66	2.58	2.55	2.55	2.59	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00
86359	31840030MH	31730010MH	Collector	25-yr	222.00	223.54	221.05	226.52	233.89	0.41	0.833	0.71	4.64	1.39	1.51	1.61	1.36	1.34	0.00	0.00	0.00	0.00	2.56	2.37	2.30	2.29
86385	31720200MH	31720220MH	Collector	25-yr	217.50	223.14	216.77	224.21	163.24	0.45	1.25	4.39	6.19	4.32	-4.09	3.40	3.74	3.54	0.00	0.00	0.00	0.00	1.18	0.78	0.63	0.88
86388	31720110MH	31720200MH	Collector	25-yr	218.08	228.52	217.07	223.14	505.34	0.20	1.25	9.19	4.82	2.89	2.36	2.62	2.82	2.88	5.28	4.90	4.73	4.54	0.00	0.00	0.00	0.00
86400	31810410MH	31810480MH	Collector	25-yr	220.33	226.76	219.49	225.18	269.28	0.31	2	4.43	3.69	12.64	3.45	3.67	3.70	3.79	1.30	1.06	1.02	0.98	0.00	0.00	0.00	0.00
86425	31810480MH	31810510MH	Collector	25-yr	219.49	225.18	218.85	225.60	526.66	0.12	2	3.69	4.75	7.89	10.77	10.93	10.99	10.95	0.00	0.00	0.00	0.00	0.20	0.03	0.00	0.00
86426	31810320MH	31810360MH	Collector	25-yr	220.59	225.54	220.38	225.70	233.66	0.09	1.25	3.70	4.07	1.94	4.86	4.97	5.05	5.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86440	31840390MH	31810320MH	Collector	25-yr	221.17	226.73	220.59	225.54	283.04	0.20	1.25	4.31	3.70	2.92	4.63	4.74	4.82	4.89	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86441	31810650MH	31810640MH	Collector	25-yr	224.35	227.94	223.13	227.00	334.75	0.36	1.25	2.34	2.62	3.90	3.62	3.59	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86443	31810500MH	31810510MH	Collector	25-yr	219.69	226.92	219.55	225.60	107.81	0.13	1.25	5.98	4.80	2.33	4.75	4.98	4.98	5.06	1.01	0.83	0.74	0.72	0.20	0.03	0.00	0.00
86445	31810340MH	31810500MH	Collector	25-yr	219.92	227.08	219.72	226.92	237.55	0.08	1.25	5.91	5.95	1.87	3.63	3.53	3.59	3.61	0.68	0.49	0.39	0.37	1.01	0.83	0.74	0.72
86446	31810350MH	31810340MH	Collector	25-yr	219.97	226.71	219.92	227.08	47.21	0.11	1.25	5.49	5.91	2.10	1.84	1.85	1.85	1.86	0.28	0.10	0.00	0.00	0.68	0.49	0.39	0.37
86448	31810470MH	31810480MH	Collector	25-yr	220.34	224.76	220.00	225.18	114.60	0.30	1.25	3.17	3.93	3.52	5.21	5.26	5.19	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86453	31810360MH	31810480MH	Collector	25-yr	220.38	225.70	220.24	225.18	110.65	0.13	1.25	4.07	3.69	2.30	5.50	5.34	5.30	5.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86457	31840420MH	31840410MH	Collector	25-yr	220.50	228.40	220.42	227.50	56.77	0.14	1.25	6.65	5.83	2.42	1.82	1.82	1.83	1.83	1.79	1.64	1.54	1.52	0.92	0.77	0.68	0.65
86459	31840410MH	31810350MH	Collector	25-yr	220.32	227.50	219.97	226.71	201.76	0.17	1.25	5.93	5.49	2.69	1.82	1.84	1.83	1.85	0.92	0.77	0.68	0.65	0.28	0.10	0.00	0.00
86479	31810580MH	31810510MH	Collector	25-yr	221.16	226.69	219.55	225.60	391.32	0.41	1.25	4.28	4.80	4.14	4.45	4.18	3.49	3.70	0.62	0.50	0.48	0.48	0.20	0.03	0.00	0.00
86481	31810630MH	31810580MH	Collector	25-yr	221.98	227.46	221.16	226.69	244.95	0.33	1.25	4.23	4.28	3.74	4.53	4.44	3.62	3.71	0.94	0.87	0.87	0.86	0.62	0.50	0.48	0.48
86483	31810640MH	31810630MH	Collector	25-yr	223.16	227.00	221.98	227.46	276.79	0.43	1.25	2.59	4.23	4.22	4.62	4.67	3.96	3.71	0.00	0.00	0.00	0.00	0.94	0.87	0.87	0.86
86605	31740780CB	31740120CB	Collector	25-yr	227.34	229.61	226.74	229.93	284.77	0.21	1	1.27	2.19	1.64	1.96	2.38	2.75	3.04	1.24	0.86	0.38	0.00	2.52	2.45	2.39	2.34
86606	31730610MH	31730600MH	Collector	25-yr	228.12	232.34	228.12	232.47	42.96	0.00	1.25	2.97	3.10	0.20	3.82	4.04	4.05	4.03	0.72	0.32	0.17	0.06	0.86	0.38	0.26	0.16
86610	31730560CB	31730570CB	Collector	25-yr	228.88	231.05	228.60	231.03	39.19	0.71	1	1.17	1.43	3.01	2.93	2.99	2.96	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86618	31740030MH	31740010CB	Collector	25-yr	224.76	228.50	224.32	229.38	435.64	0.10	2	1.74	3.06	7.19	11.29	11.45	10.97	10.74	0.00	0.00	0.00	0.00	1.83	1.71	1.55	1.26
86621	31740060MH	31740030MH	Collector	25-yr	226.93	228.80	225.51	228.50	166.70	0.85	1	0.87	1.99	3.29	2.04	2.18	2.07	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86625	31730570CB	31730550MH	Collector	25-yr	228.60	231.03	228.52	231.04	63.31	0.13	1	1.43	1.52	1.27	3.32	3.42	3.43	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86629	31730750B	31730560CB	Collector	25-yr	228.96	231.46	228.90	231.05	31.93	0.20	0.833	1.67	1.32	0.95	1.64	1.75	1.81	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86630	31731180MH	31731190MH	Collector	25-yr	228.91	233.82	228.20	233.03	480.00	0.15	2	2.91	2.83	8.70	8.63	10.60	10.69	10.68	1.52	0.64	0.62	0.60	1.36	0.80	0.69	0.60
86635	31730600MH	31730600CB	Collector	25-yr	227.87	232.47	227.75	232.64	20.27	0.59	1.5	3.10	3.39	8.08	7.16	7.44	7.60	7.72	0.86	0.38	0.26	0.16	1.11	0.65	0.53	0.44
86641	31730620MH	31731180MH	Collector	25-yr	229.23	233.86	229.08	233.82	51.20	0.29	2	2.63	2.74	12.24	8.63	10.60	10.68	10.67	1.48	0.58	0.57	0.55	1.52	0.64	0.62	0.60
86646	31731190MH	31730600MH	Collector	25-yr	228.10	233.03	228.06	232.47	71.10	0.20	2	2.93	2.41	5.37	8.63	10.60	10.67	10.67	1.36	0.80	0.69	0.60	0.86	0.38	0.26	0.16
86654	31730600CB	31730760T	Collector	25-yr	227.75	232.64	226.22	229.19	568.50	0.27	1.5	3.39	1.47	5.45	7.16	7.45	7.60	7.72	1.11	0.65	0.53	0.44	0.00	0.00	0.00	0.00
86655	31730760T	31730780MH	Collector	25-yr	226.18	229.19	225.53	229.75	256.55	0.25	1.5	1.51	2.72	5.29	7.17	7.33	7.39	7.43	0.00	0.00	0.00	0.00	0.98	0.87	0.78	0.65
86657	31730780CB	31730780MH	Collector	25-yr	227.89	232.92	227.53	229.75	36.42	1.00	1	4.03	1.22	3.54	1.54	1.83	2.09	2.36	4.10	3.95	3.82	3.67	0.98	0.87	0.78	0.65
86668	31840240CB	31840250CB	Collector	25-yr	222.20	224.65	222.25	227.30	50.15	-0.10	1.25	1.20	3.80	2.04	1.73	1.25	-1.58	1.53	0.00	0.00	0.00	0.00	2.64	2.57	2.58	2.64
86669	31730300MH	31730180MH	Collector	25-yr	221.74	224.72	220.74	223.56	199.02	0.50	1	1.98	1.82	2.53	2.04	2.18	2.20	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86671	31840830CB	31730100MH	Collector	25-yr	221.14	226.54	220.80	224.35	224.54	0.15	2	3.40	1.55	8.80	6.23	6.02										

Periwinkle Creek Watershed Build-out																										
Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
87074	31840280CB	31840260CB	Collector	25-yr	222.67	226.18	222.43	226.93	265.35	0.09	1	2.51	3.50	1.07	2.81	2.86	2.89	2.56	0.22	0.04	0.39	0.27	1.96	1.92	1.56	2.16
87466	31810740T	31810750MH	Collector	25-yr	227.65	230.00	225.60	228.28	410.32	0.50	0.833	1.52	1.85	1.55	1.29	1.43	1.43	1.43	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87471	31810750MH	31810690CB	Collector	25-yr	225.60	228.28	224.60	227.95	341.74	0.29	0.833	1.85	2.52	1.18	1.13	1.11	1.09	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87992	30830260CB	30830760OF	Collector	25-yr	218.51	222.41	216.50	224.90	144.29	1.39	1	2.90	7.40	4.21	3.26	3.30	3.24	3.14	0.93	0.00	0.00	0.00	3.53	2.58	2.33	2.15
87993	30830270CB	30830260CB	Collector	25-yr	218.72	222.74	218.51	222.41	52.28	0.40	1	3.02	2.90	2.26	3.27	3.31	3.24	3.14	1.23	0.26	0.21	0.21	0.93	0.00	0.00	0.00
87994	30830280CB	30830270CB	Collector	25-yr	219.60	223.05	218.72	222.74	231.14	0.38	1	2.45	3.02	2.20	3.27	3.31	3.25	3.16	0.00	0.00	0.00	0.00	1.23	0.26	0.21	0.21
88005	31730550MH	31730610MH	Collector	25-yr	228.50	231.04	228.12	232.34	337.62	0.11	1.5	1.04	2.72	3.52	3.82	4.04	4.05	4.03	0.00	0.00	0.00	0.00	0.72	0.32	0.17	0.06
88027	30830290CB	30830280CB	Collector	25-yr	220.07	223.38	219.79	223.05	58.04	0.48	1	2.31	2.26	2.47	1.93	2.31	2.62	2.73	0.17	0.09	0.02	0.00	0.00	0.00	0.00	0.00
88447	31730780MH	31740030MH	Collector	25-yr	225.53	229.75	224.85	228.50	198.00	0.34	2	2.22	1.65	13.26	8.41	8.58	8.50	8.54	0.98	0.87	0.78	0.65	0.00	0.00	0.00	0.00
88484	31810200MH	31810650MH	Collector	25-yr	224.96	229.62	224.35	227.94	421.76	0.14	1.25	3.41	2.34	2.46	1.87	2.20	2.51	2.89	1.17	1.20	1.06	0.85	0.00	0.00	0.00	0.00
88577	31730500T	31730470MH	Collector	25-yr	227.80	231.68	226.13	232.25	332.60	0.50	1	2.88	5.12	2.52	2.35	2.31	2.20	2.17	0.00	0.00	0.00	0.00	0.62	0.46	0.32	0.17
88581	31730470MH	31730450MH	Collector	25-yr	226.13	232.25	225.11	231.14	294.43	0.35	1	5.12	5.03	2.10	2.36	2.33	2.20	2.16	0.62	0.46	0.32	0.17	0.00	0.00	0.00	0.00
88691	31720460MH	31720400MH	Collector	25-yr	222.20	225.09	219.63	224.00	589.34	0.44	1.25	1.64	3.12	4.27	4.89	4.87	4.78	4.64	0.34	0.24	0.00	0.00	1.44	0.78	0.73	0.72
88875	31720500CB	31720460MH	Collector	25-yr	222.97	224.76	222.40	225.09	128.90	0.44	1	0.79	1.69	2.37	2.89	2.86	2.64	2.05	0.00	0.00	0.00	0.00	0.34	0.24	0.00	0.00
93968	30821650CO	30821640CB	Collector	25-yr	216.70	220.33	214.08	218.41	82.31	3.18	0.5	3.13	3.83	1.00	0.97	1.26	1.35	1.35	3.11	0.45	0.00	0.00	3.44	2.41	1.83	1.46
95310	30840470MH	30840460T	Collector	25-yr	222.47	225.83	222.14	223.47	191.59	0.17	0.833	2.53	0.50	0.91	1.14	1.36	1.54	1.75	2.57	2.29	2.08	1.82	0.89	0.84	0.80	0.74
95311	30840460T	30840450MH	Collector	25-yr	222.14	223.47	221.42	224.45	76.39	0.94	0.833	0.50	2.20	2.12	1.14	1.36	1.54	1.75	0.89	0.84	0.80	0.74	2.57	2.51	2.46	2.38
95547	30841070MH	30841060MH	Collector	25-yr	223.26	227.03	222.87	227.43	144.99	0.27	1	2.77	3.56	1.85	2.46	2.85	2.87	2.87	1.13	0.10	0.00	0.00	2.20	1.38	1.13	1.00
95548	30841080MH	30841070MH	Collector	25-yr	223.94	228.24	223.36	227.03	214.00	0.27	1	3.30	2.67	1.85	2.47	2.87	2.89	2.88	1.35	0.00	0.00	0.00	1.13	0.10	0.00	0.00
96870	30741710MH	30741090CB	Collector	25-yr	224.55	228.69	224.34	228.33	38.99	0.54	1	3.14	2.99	2.61	3.08	3.40	3.48	3.63	0.13	0.00	0.00	0.00	0.05	0.00	0.00	0.00
96871	30741720MH	30741710MH	Collector	25-yr	226.12	228.39	224.74	228.69	73.00	1.89	1	1.27	2.95	4.90	2.22	2.31	2.30	2.42	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
107328	30821235T	30820970MH	Collector	25-yr	216.03	219.14	215.92	220.12	242.73	0.05	1.25	1.86	2.95	1.38	4.06	4.77	5.40	6.12	1.29	0.90	0.51	0.08	3.52	3.45	3.38	3.31
107411	30712100MH	30710200MH	Collector	25-yr	212.69	216.49	210.35	215.49	325.76	0.72	1.25	2.55	3.89	5.47	2.72	3.20	3.63	3.63	3.18	0.81	0.00	0.00	5.25	0.57	0.00	0.00
140307	30930970MH	30930980MH	Collector	25-yr	227.86	231.89	226.93	230.77	243.91	0.38	1	3.03	2.84	2.20	3.48	3.61	3.60	3.65	0.41	0.00	0.00	0.00	1.56	1.12	0.53	0.10
145808	31720780MH	31720820MH	Collector	25-yr	220.89	223.27	220.47	222.77	83.90	0.50	1	1.38	1.30	2.52	1.91	2.32	2.54	2.80	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145809	31720820MH	31720455MH	Collector	25-yr	220.44	222.77	219.86	223.28	22.12	2.62	1	1.33	2.42	5.77	1.85	2.07	2.96	3.13	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00
145821	31720455MH	31720410CB	Collector	25-yr	219.97	223.28	219.40	223.30	383.11	0.15	2	1.31	1.90	8.73	5.56	5.32	5.05	4.76	0.48	0.00	0.00	0.00	0.72	0.07	0.03	0.02
152308	30840345MH	30840340CB	Collector	25-yr	222.72	224.72	222.42	224.31	94.57	0.32	1.25	0.75	0.64	3.38	1.62	2.41	2.88	3.44	1.20	0.64	0.19	0.10	0.87	0.36	0.00	0.00
152759	31810960MH	31810950MH	Collector	25-yr	221.77	225.23	221.56	225.56	105.00	0.20	2	1.46	2.00	10.12	4.54	4.73	5.16	6.10	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
152760	31810960MH	31810515MH	Collector	25-yr	221.56	225.56	220.98	225.58	116.36	0.50	2	2.00	2.60	15.97	4.51	4.71	4.92	4.46	0.20	0.00	0.00	0.00	0.20	0.03	0.00	0.00
152799	31731170MH	31730620MH	Collector	25-yr	229.63	233.38	229.45	233.86	95.00	0.19	2	1.75	2.41	9.85	6.99	8.01	7.94	7.82	0.91	0.00	0.00	0.00	1.48	0.58	0.57	0.55
152806	31741000MH	31731150MH	Collector	25-yr	231.86	234.36	230.55	233.56	353.40	0.37	0.833	1.67	2.18	1.33	0.93	1.37	1.41	1.40	1.42	0.00	0.00	0.00	1.14	0.19	0.18	0.17
152807	31731150MH	31730620MH	Collector	25-yr	230.46	233.56	230.36	233.86	32.13	0.31	0.833	2.27	2.67	1.22	0.93	1.38	1.41	1.39	1.14	0.19	0.18	0.17	1.48	0.58	0.57	0.55
152997	30830630DI	30830640MH	Collector	25-yr	212.50	215.80	212.37	222.50	31.65	0.35	3	0.30	7.13	42.75	8.69	9.00	9.81	9.39	1.13	0.73	0.31	0.03	7.83	7.44	7.01	6.73
84289	31720620MH	31720610MH	Feeder	10-yr	218.84	223.36	218.26	223.55	75.24	0.77	0.833	3.69	4.46	1.92	1.47	1.37	1.63	1.58	0.00	0.00	0.00	0.00	0.21	0.01	0.00	0.00
84308	31810235MH	31810270MH	Feeder	10-yr	226.32	231.42	225.54	231.33	82.49	0.95	0.667	4.43	5.12	1.18	1.05	1.16	0.80	0.89	0.79	0.49	0.27	0.10	0.75	0.45	0.23	0.06
84324	31720520CB	31720780OF	Feeder	10-yr	216.83	221.07	216.30	225.65	149.94	0.35	1.25	2.99	8.10	3.84	3.28	4.79	4.96	-5.12	0.00	0.00	0.00	0.00	4.24	3.30	3.05	2.86
84358	31720870CB	31720860B	Feeder	10-yr	219.39	222.03	218.44	221.24	201.42	0.47	1	1.64	1.80	2.45	2.43	2.79	2.76	2.67	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84437	31720540CB	31720530CB	Feeder	10-yr	217.50	220.79	217.08	220.67	62.62	0.67	1	2.29	2.59	2.92	2.76	3.49	3.58	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84443	31720530CB	31720520CB	Feeder	10-yr	217.08	220.67	216.83	221.07	34.98	0.71	1	2.59	3.24	3.01	3.28	4.40	4.57	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84445	31720860B	31720540CB	Feeder	10-yr	218.44	221.24	217.50	220.79	29.19	3.22	1	1.80	2.29	6.39	2.57	2.78	2.76	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85922	31620350MH	31621500MH	Feeder	10-yr	229.82	233.76	229.37	234.91	224.91	0.20	1	2.94	4.54	1.59	1.36	1.67	1.74	1.73	0.00	0.00	0.00	0.00	0.98	0.59	0.47	0.36
86019	30741030MH	30741060MH	Feeder	10-yr	221.50	228.04	218.97	225.28	282.02	0.90	0.833	5.71	5.48	2.07	2.24	2.24	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86311	31810020MH	31810340MH	Feeder	10-yr	222.52	226.25	221.34	227.08	345.32	0.34	1	2.73	4.74	2.08	1.66	1.76	1.84	1.77	0.00	0.00	0.00	0.00	0.68	0.49	0.39	0.37
86370	31720070MH	31720070CB	Feeder	10-yr	221.13	226.37	221.28	223.27	98.94	-0.15	1	4.24	0.99	1.39	2.22	2.65	3.02	3.42	2.66	2.						

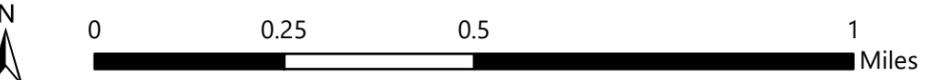


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**Build-Out Deficiencies** (Red line)

**Existing Stormdrains** (Pink line)

**Urban Growth Boundary** (Dashed black line)



Date: 3/19/2021

# Willamette River Basin Build-Out Deficiencies

Figure 8.6

Willamette River Watershed Build-out																										
Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
RxR a	30731640PE	30720060MH	Bridge/Culvert Trunk	100-yr	211.22	215.85	208.84	212.62	1605.43	0.11	0.16	4.47	3.62	0.07	10.84	12.05	13.02	13.96	1.28	1.03	0.82	0.64	2.85	2.80	2.75	2.71
RxR c	30731400OF	30731630HW	Bridge/Culvert Trunk	100-yr	210.88	214.99	211.41	213.42	427.28	-0.12	0.16	3.95	1.85	0.30	2.95	3.25	3.54	3.75	0.34	0.07	0.00	0.00	0.00	0.00	0.00	0.00
92929	41322160HW	41322150PE	Bridge/Culvert Collector	100-yr	211.50	214.63	211.00	217.35	94.76	0.53	2	1.13	4.35	15.26	10.26	12.38	13.90	14.98	1.83	1.31	1.01	0.74	4.72	4.16	3.96	3.80
120982	41322140HW	41230985MH	Bridge/Culvert Collector	100-yr	210.47	217.91	209.52	212.90	195.94	0.48	2	5.44	1.38	14.63	7.52	8.02	10.14	11.68	5.29	4.72	4.52	4.37	0.54	0.02	0.00	0.00
120983	41230985MH	41230700ED	Bridge/Culvert Collector	100-yr	209.52	212.90	207.21	212.53	442.57	0.66	1.5	1.88	3.82	7.92	7.51	8.02	8.17	8.27	0.54	0.02	0.00	0.00	4.74	4.71	4.69	4.66
7269	741800CB	30740350CB	Collector	25-yr	224.43	225.45	221.93	223.55	158.00	1.58	0.667	0.35	0.95	1.52	1.33	1.33	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84228	30731400MH	30731400OF	Collector	25-yr	207.83	224.71	210.88	214.99	87.71	0.82	1.5	15.38	2.61	8.84	2.93	3.23	3.44	3.61	9.99	9.71	9.48	9.27	0.34	0.07	0.00	0.00
84625	30730810CB	30730750MH	Collector	25-yr	212.91	215.73	211.12	215.67	291.54	0.56	1.5	1.32	3.05	7.29	7.41	8.54	8.63	8.68	1.52	0.00	0.00	0.00	3.79	2.10	1.96	1.78
84631	30740350CB	30740340MH	Collector	25-yr	221.93	223.55	221.37	224.53	32.73	1.71	0.833	0.79	2.33	2.86	0.62	0.63	0.62	0.62	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.98
84634	30730840MH	30730820MH	Collector	25-yr	210.61	213.90	209.30	213.76	151.41	0.54	1	2.29	3.46	2.43	2.30	2.79	2.79	2.78	1.27	0.00	0.00	0.00	1.87	0.94	0.93	0.93
84637	30730820MH	30731700MH	Collector	25-yr	209.30	213.76	208.15	213.00	338.56	0.27	1	3.46	3.85	1.71	2.30	2.78	2.78	2.78	1.87	0.94	0.93	0.93	2.74	2.54	2.54	2.54
84642	30740340MH	30740330MH	Collector	25-yr	221.37	224.53	220.93	224.67	128.95	0.34	0.833	2.33	2.91	1.19	1.97	1.97	1.97	1.97	0.98	0.98	0.98	0.98	1.78	1.78	1.78	1.78
84647	30740400CB	30730810CB	Collector	25-yr	215.80	218.29	212.91	215.73	533.42	0.56	1.5	0.99	1.32	7.28	4.19	4.30	4.28	4.29	1.59	1.35	1.35	1.35	1.52	0.00	0.00	0.00
84670	30740540MH	30740560MH	Collector	25-yr	217.06	219.98	214.86	221.64	266.21	0.74	1	1.92	5.78	2.84	2.71	2.70	2.73	2.77	0.00	0.00	0.00	0.00	1.95	1.83	1.67	1.54
84674	30730860MH	30731700MH	Collector	25-yr	209.97	213.70	208.15	213.00	335.04	0.35	1	2.73	3.85	1.96	3.39	3.39	3.40	3.41	0.00	0.00	0.00	0.00	2.74	2.54	2.54	2.54
84687	30740583MH	30740583MH	Collector	25-yr	213.86	219.17	213.79	218.59	45.76	0.15	1	4.31	3.80	1.29	3.09	3.09	3.10	3.09	1.20	0.85	0.51	0.36	0.91	0.52	0.15	0.00
84711	30740240MH	30740490MH	Collector	25-yr	220.30	224.22	218.87	223.71	302.09	0.45	0.833	3.09	4.01	1.36	1.41	1.42	1.43	1.44	0.00	0.00	0.00	0.00	0.84	0.71	0.60	0.48
85032	30712160MH	30740560MH	Collector	25-yr	217.45	219.65	214.86	221.64	355.87	0.73	1	1.20	5.78	2.82	0.59	-0.71	-1.00	-1.19	0.00	0.00	0.00	0.00	1.95	1.83	1.67	1.54
85035	30740490MH	30740510MH	Collector	25-yr	218.87	223.71	218.60	223.30	96.05	0.29	1	3.84	3.70	1.79	2.16	2.27	2.36	2.46	0.84	0.71	0.60	0.48	0.84	0.76	0.69	0.60
85036	30730550CB	30730010MH	Collector	25-yr	211.48	214.15	209.99	214.19	543.30	0.27	1.25	1.42	2.95	3.11	3.12	4.47	4.47	4.47	1.56	0.00	0.00	0.00	3.68	3.56	3.56	3.56
85664	30640140MH	30640110MH	Collector	25-yr	195.06	210.54	193.92	209.25	292.34	0.39	1.25	14.23	14.08	3.75	5.17	5.12	5.08	5.06	0.16	0.00	0.00	0.00	0.69	0.33	0.15	0.00
85667	30640190T	30640160X	Collector	25-yr	197.31	210.43	197.16	210.33	39.49	0.38	1.25	11.87	11.92	3.70	5.09	5.04	5.02	5.00	0.32	0.29	0.26	0.24	0.52	0.46	0.41	0.36
85669	30640050MH	30640040MH	Collector	25-yr	196.29	209.37	195.54	208.37	195.53	0.38	1.25	11.83	11.58	3.71	6.53	6.66	6.75	6.83	1.07	0.88	0.71	0.52	2.24	2.14	2.02	1.89
85672	30640280MH	30640280T	Collector	25-yr	196.21	212.41	195.72	211.32	125.11	0.39	1.25	14.95	14.35	3.75	4.48	4.43	4.41	4.39	0.82	0.74	0.73	0.70	0.25	0.14	0.13	0.12
85673	30640270T	30640280MH	Collector	25-yr	196.77	211.75	196.21	212.41	114.65	0.42	1.25	13.73	14.95	3.88	3.17	3.14	3.13	3.13	0.00	0.00	0.00	0.00	0.82	0.74	0.73	0.70
85676	30640150MH	30640050MH	Collector	25-yr	196.66	209.68	196.29	209.37	96.48	0.38	1.25	11.77	11.83	3.71	5.09	5.05	5.02	5.00	0.72	0.59	0.47	0.34	1.07	0.88	0.71	0.52
85680	30710240MH	30640230MH	Collector	25-yr	198.83	211.34	198.49	211.71	92.33	0.37	1.25	11.26	11.97	3.64	1.89	1.98	1.97	1.97	0.13	0.00	0.00	0.00	0.59	0.45	0.43	0.43
85684	30640220T	30640210T	Collector	25-yr	198.40	211.26	198.21	211.18	49.37	0.38	1.25	11.61	11.72	3.72	3.40	3.69	3.74	3.74	0.17	0.03	0.00	0.00	0.25	0.14	0.12	0.12
85685	30640230MH	30640220T	Collector	25-yr	198.49	211.71	198.40	211.26	24.46	0.37	1.25	11.97	11.61	3.64	1.89	1.98	1.97	1.97	0.59	0.45	0.43	0.43	0.17	0.03	0.00	0.00
85696	30640280T	30640140MH	Collector	25-yr	195.72	211.32	195.06	210.54	165.96	0.40	1.25	14.35	14.23	3.78	4.49	4.44	4.41	4.39	0.25	0.14	0.13	0.12	0.16	0.00	0.00	0.00
85697	30640110MH	30640100MH	Collector	25-yr	193.92	209.25	193.18	208.16	159.91	0.46	1.25	14.08	13.73	4.08	6.16	6.16	6.13	6.09	0.69	0.33	0.15	0.00	1.08	0.72	0.50	0.27
85698	30640100MH	30640090MH	Collector	25-yr	193.18	208.16	192.78	207.95	130.68	0.31	1.25	13.73	13.92	3.32	8.58	8.51	8.44	8.35	1.08	0.72	0.50	0.27	3.25	2.78	2.45	2.10
85713	30640200MH	30640190T	Collector	25-yr	197.38	210.27	197.31	210.43	30.38	0.39	1.25	11.64	11.87	3.77	4.31	4.29	4.26	4.24	0.00	0.00	0.00	0.00	0.32	0.29	0.26	0.24
85714	30640210T	30640200MH	Collector	25-yr	198.21	211.18	197.38	210.27	221.00	0.38	1.25	11.72	11.64	3.68	3.40	3.69	3.74	3.74	0.25	0.14	0.12	0.12	0.00	0.00	0.00	0.00
85715	30640160X	30640150MH	Collector	25-yr	197.16	210.33	196.66	209.68	126.73	0.39	1.25	11.92	11.77	3.77	5.09	5.04	5.02	5.00	0.52	0.46	0.41	0.36	0.72	0.59	0.47	0.34
85720	30710080X	30710240MH	Collector	25-yr	199.70	211.52	198.83	211.34	176.74	0.49	2	9.82	10.51	14.74	1.89	2.42	2.77	3.18	0.30	0.15	0.14	0.14	0.13	0.00	0.00	0.00
85854	30641060MH	30640020MH	Collector	25-yr	197.70	204.30	194.54	207.39	290.00	0.58	1	5.60	11.85	2.52	2.32	2.44	2.41	2.29	0.00	0.00	0.00	0.00	3.07	3.02	2.99	2.90
86398	31820070CB	31820050CB	Collector	25-yr	219.18	221.90	218.63	223.93	470.39	0.12	2	0.72	3.30	7.18	7.00	9.31	9.66	9.58	1.17	0.52	0.29	0.28	3.86	3.43	3.22	3.16
86405	31820100CB	31820090CB	Collector	25-yr	219.63	223.53	219.33	221.78	488.14	0.06	2	1.90	0.45	5.21	4.46	5.86	5.85	5.76	2.41	1.64	1.48	1.47	0.94	0.25	0.02	0.02
86407	31820090CB	31820560X	Collector	25-yr	219.33	221.78	219.30	221.74	16.13	0.21	2	0.45	0.44	9.06	4.51	5.90	5.92	5.79	0.94	0.25	0.02	0.02	0.92	0.23	0.00	0.00
86408	31820560X	31820070CB	Collector	25-yr	219.30	221.74	219.18	221.90	56.68	0.21	2	0.44	0.72	9.67	7.03	9.35	9.94	10.08	0.92	0.23	0.00	0.00	1.17	0.52	0.29	0.28
86417	31820070MH	31820120MH	Collector	25-yr	219.26	225.10	215.15	225.20	447.28	0.24	1.5	4.34	8.55	4.79	7.35	10.54	10.54	10.54	2.62	0.00	0.00	0.00	8.36	7.99	7.89	7.82
87446	31820150CB	31820100CB	Collector	25-yr	220.24	222.28	219.63	223.53	380.99	0.15	2	0.04	1.90	8.27	4.53	5.95	6.20	6.14	0.83	0.12	0.00	0.00	2.41	1.64	1.48	1.47
87461	30740030MH	30740010MH	Collector	25-yr	224.10	226.71	222.24	228.43	235.00	0.70	0.833	1.78	5.36	1.70	0.55	0.52	0.53	0.53	0.00	0.00	0.00	0.00	1.83	1.83	1.83	1.83
88338	41240040MH	41240030MH	Collector	25-yr	223.10	226.79	221.58	227.85	315.44	0.42	0.833	2														

Willamette River Watershed Build-out																										
Deficiencies With Flood Control																										
xpswmm/GIS ID	Upstream Node Name	Downstream Node Name	Note	Design Storm	Node Properties				Conduit Properties					Modeled Flows				Freeboard Upstream Node				Freeboard Downstream Node				
					US Invert Elevation, ft.	US Ground Elevation, ft.	DS Invert Elevation, ft.	DS Ground Elevation, ft.	Length, ft.	Slope %	Diameter, ft.	US Cover, ft.	DS Cover, ft.	Design Capacity, cfs	10-Yr Flow, cfs	25-Yr Flow, cfs	50-Yr Flow, cfs	100-Yr Flow, cfs	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.	10-Yr Flow, ft.	25-Yr Flow, ft.	50-Yr Flow, ft.	100-Yr Flow, ft.
85628	30640290MH	30640280MH	Feeder	10-yr	207.37	212.40	196.21	212.41	305.24	1.09	1.25	3.78	14.95	6.27	1.76	2.13	2.45	2.78	0.56	0.35	0.23	0.06	0.82	0.74	0.73	0.70
85663	30640250MH	30640255MH	Feeder	10-yr	197.13	212.05	196.54	211.94	136.19	0.43	1.5	13.42	13.90	6.42	1.12	1.36	1.58	1.80	0.23	0.21	0.21	0.20	0.15	0.14	0.14	0.13
85700	30640120MH	30640110MH	Feeder	10-yr	203.09	209.97	193.92	209.25	288.38	1.13	1.25	5.63	14.08	6.37	1.10	1.37	1.57	1.79	1.31	0.91	0.68	0.47	0.69	0.33	0.15	0.00
85744	30710080MH	30710080X	Feeder	10-yr	199.79	211.80	199.70	211.52	18.10	0.50	1.75	10.26	10.07	10.38	-0.98	-1.12	-0.98	0.95	0.58	0.43	0.41	0.42	0.30	0.15	0.14	0.14
86992	30721050CB	30721060MH	Feeder	10-yr	207.73	209.32	194.33	210.16	275.76	4.51	0.5	1.09	15.33	1.11	1.18	1.18	1.17	1.18	0.36	0.00	0.00	0.00	14.98	14.90	14.82	14.69
88361	41240020MH	41240030MH	Feeder	10-yr	225.14	228.07	221.58	227.85	234.50	0.70	0.667	2.26	5.60	0.94	1.33	1.49	1.49	1.49	0.77	0.00	0.00	0.00	4.45	3.47	2.42	1.98
88478	30740480MH	30740490MH	Feeder	10-yr	217.79	225.03	218.87	223.71	247.28	-0.44	0.833	6.41	4.01	1.34	0.78	0.95	1.11	1.27	1.81	1.52	1.22	0.88	0.84	0.71	0.60	0.48
88568	30741050MH	30740540MH	Feeder	10-yr	219.50	223.77	217.06	219.98	313.57	0.63	0.833	3.44	2.09	1.62	2.09	2.09	2.06	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88704	30640380MH	30640370MH	Feeder	10-yr	202.10	207.69	200.54	209.80	231.60	0.59	1	4.59	8.26	2.54	1.33	1.35	1.36	1.37	0.00	0.00	0.00	0.00	2.17	2.08	2.03	1.88
94399	30641070MH	30641060CB	Feeder	10-yr	203.56	209.86	198.65	204.54	169.98	1.62	0.833	5.47	5.06	2.59	0.98	1.19	1.39	1.59	5.12	4.93	4.70	4.44	0.21	0.19	0.18	0.16
99678	31820590CB	11318206OT	Feeder	10-yr	222.48	224.18	222.35	224.49	42.00	0.32	0.67	1.03	1.47	0.68	1.12	1.12	1.12	1.12	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.65
99679	11318206OT	31820610CB	Feeder	10-yr	222.35	224.49	222.48	224.77	95.00	0.33	0.67	1.47	1.62	0.70	1.12	1.12	1.12	1.12	0.65	0.65	0.65	0.65	1.90	1.90	1.90	1.90
105507	30641380DE	30641380MH	Feeder	10-yr	208.14	214.51	207.85	214.14	27.05	0.52	0.833	5.54	5.46	1.46	1.53	1.89	2.18	2.48	0.36	0.24	0.14	0.04	0.13	0.09	0.06	0.04
106597	30640140T	30640140MH	Feeder	10-yr	203.00	211.31	195.06	210.54	321.00	0.83	0.667	7.64	14.81	1.02	-0.36	-0.41	-0.40	-0.34	0.90	0.70	0.65	0.59	0.16	0.00	0.00	0.00
129093	30530083CB	30530082CB	Feeder	10-yr	207.65	209.01	207.02	208.79	173.99	0.36	0.833	0.53	0.94	1.32	0.98	0.98	0.96	0.96	0.00	0.00	0.00	0.00	0.11	0.04	0.00	0.00
144913	30732690MH	30732700MH	Feeder	10-yr	216.19	219.26	215.74	219.70	98.70	0.20	1	2.07	2.96	1.49	3.26	3.54	3.57	3.50	0.22	0.00	0.00	0.00	1.65	1.16	0.91	0.71
151659	30740605MH	30740280MH	Feeder	10-yr	221.79	225.70	220.54	224.44	269.75	0.46	1	2.91	2.90	2.25	1.17	1.17	1.17	1.17	0.93	0.93	0.92	0.92	0.00	0.00	0.00	0.00
152223	30530084CB	30530082CB	Feeder	10-yr	207.51	208.82	207.02	208.79	48.50	0.93	0.5	0.81	1.27	0.54	0.65	0.64	0.64	0.63	0.00	0.00	0.00	0.00	0.11	0.04	0.00	0.00
New Infrastructure																										
WILL_NEW_001_L	WILL_NEW_001	30731450MH	Collector	25-yr																						
WILL_NEW_002_L	WILL_NEW_002	WILL_NEW_001	Feeder	10-yr																						
WILL_NEW_003_L	31820570CB	WILL_NEW_002	Feeder	10-yr																						
WILL_NEW_004_L	31820590CB	WILL_NEW_001	Feeder	10-yr																						
WILL_NEW_005_L	WILL_NEW_003	41320700MH	Collector	25-yr																						
WILL_NEW_006_L	WILL_NEW_006	WILL_NEW_005	Collector	25-yr																						
WILL_NEW_007_L	WILL_NEW_005	WILL_NEW_004	Collector	25-yr																						

Table 8.6 Willamette River Basin Build-Out Deficiencies