Ultimate Conditions, Wet Weather
Salt Creek Model

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0 85	Length Exceeding d/D = 1
96	95	Main Street	3.50	51.06	0.47	9,618,699	1.45	24.91	0.00	0.42	0.00				
95	101	Main Street	3.50	247.54	0.61	9,618,699	1.35	24.91	0.00	0.39	0.00				
101	87	Main Street	3.50	593.44	0.61	9,618,699	1.35	24.91	0.00	0.39	0.00				
87	90	Main Street	3.50	600.00	0.90	9,618,699	1.22	24.91	0.00	0.35	0.00				
90	92	Main Street	3.50	575.00	0.73	9,618,699	1.46	24.91	0.00	0.42	0.00				
92	91	Main Street	3.50	44.12	0.34	9,618,699	1.56	24.91	0.00	0.45	0.00				
91	93	Main Street	3.50	155.88	0.34	9,618,699	1.59	24.91	0.00	0.45	0.00				
93	89	Main Street	3.50	528.13	0.64	9,618,699	1.57	24.91	0.00	0.45	0.00				
89	94	Main Street	3.50	375.00	0.36	9,618,699	1.93	24.91	0.00	0.55	0.00				
94	369	Main Street	3.50	686.96	0.24	9,618,699	2.03	24.91	0.00	0.58	0.00				
369	88	Main Street	3.50	204.48	2.68	9,618,699	1.45	24.91	0.00	0.41	0.00				
88	105	Main Street	3.50	1110.44	0.38	9,618,699	1.55	24.91	0.00	0.44	0.00				

Appendix F
General Plan Update Land Use Tables and Model Results

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GENERAL PLAN UPDATE LAND USE COMPARISON TABLES

Alternative 2

February 6, 2004

EXISTING

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A	NW	248.96	100.88	56.59	20.16	7,520.00	12,152	19,672	59,724
	SW	245.06	19.91	332.70	6.04	7,712.00	10,565	18,277	55,489
	East	215.57	79.08	221.00	0.50	20,781.00	8,722	29,503	89,571
	Bayfront								
							TOTAL	67,452	204,784

ADOPTED GENERAL PLAN

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B	NW	271.10	112.75	78.29	20.16	7,207.00	13,933	21,140	64,181
	SW	291.49	18.82	417.13	5.71	7,518.00	11,333	18,851	57,232
	East	533.72	184.44	839.98	18.78	30,837.00	19,234	50,071	152,016
	Bayfront								
							TOTAL	90,062	273,428

"ALTERNATIVE 2"

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
C	NW	183.49	144.17	67.38	74.79	7,083.00	18,831	25,914	78,675
	SW	259.12	25.61	454.99	1.76	7,438.00	15,063	22,501	68,313
	East	571.66	225.12	685.44	26.77	30,862.00	25,190	56,052	170,174
	Bayfront								
							TOTAL	104,467	317,162

EXISTING TO ADOPTED CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to B	NW	22.14	11.87	21.70	0.00	-313.00	1,781	1,468	4,457
	SW	46.43	-1.09	84.43	-0.33	-194.00	768	574	1,743
	East	318.15	105.36	618.98	18.28	10,056.00	10,512	20,568	62,444
	Bayfront								
							TOTAL	22,610	68,644

EXISTING TO "ALTERNATIVE 2" CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to C	NW	-65.47	64.51	10.79	54.63	-437.00	6,679	6,242	18,951
	SW	14.06	29.87	122.29	-4.28	-274.00	4,498	4,224	12,824
	East	356.09	146.04	464.44	26.27	10,081.00	16,468	26,549	80,603
	Bayfront								
							TOTAL	37,015	112,378

ADOPTED GP TO "ALTERNATIVE 2" DIFFERENCE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B to C	NW	-87.61	31.42	-10.91	54.63	-124.00	4,898	4,774	14,494
	SW	-32.37	6.79	37.86	-3.95	-80.00	3,730	3,650	11,081
	East	37.94	40.68	-154.54	7.99	25.00	5,956	5,981	18,158
	Bayfront								
							TOTAL	14,405	43,734

* - Population coefficient of 3.036 per household (DOF Jan. 1, 2003)

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GENERAL PLAN UPDATE LAND USE COMPARISON TABLES

Alternative 3

February 6, 2004

EXISTING

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A	NW	248.96	100.88	56.59	20.16	7,520.00	12,152	19,672	59,724
	SW	245.06	19.91	332.70	6.04	7,712.00	10,565	18,277	55,489
	East	215.57	79.08	221.00	0.50	20,781.00	8,722	29,503	89,571
	Bayfront								
							TOTAL	67,452	204,784

ADOPTED GENERAL PLAN

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B	NW	271.10	112.75	78.29	20.16	7,207.00	13,933	21,140	64,181
	SW	291.49	18.82	417.13	5.71	7,518.00	11,333	18,851	57,232
	East	533.72	184.44	839.98	18.78	30,837.00	19,234	50,071	152,016
	Bayfront								
							TOTAL	90,062	273,428

"ALTERNATIVE 3"

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
C	NW	249.41	136.62	78.29	29.38	7,059.00	19,226	26,285	79,801
	SW	304.36	30.22	384.46	1.76	7,408.00	15,483	22,891	69,497
	East	566.13	214.27	1,267.14	18.78	28,991.00	20,653	49,644	150,719
	Bayfront								
							TOTAL	98,820	300,018

EXISTING TO ADOPTED CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to B	NW	22.14	11.87	21.70	0.00	-313.00	1,781	1,468	4,457
	SW	46.43	-1.09	84.43	-0.33	-194.00	768	574	1,743
	East	318.15	105.36	618.98	18.28	10,056.00	10,512	20,568	62,444
	Bayfront								
							TOTAL	22,610	68,644

EXISTING TO "ALTERNATIVE 3" CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to C	NW	0.45	35.74	21.70	9.22	-461.00	7,074	6,613	20,077
	SW	59.30	10.31	51.76	-4.28	-304.00	4,918	4,614	14,008
	East	350.56	135.19	1,046.14	18.28	8,210.00	11,931	20,141	61,148
	Bayfront								
							TOTAL	31,368	95,233

ADOPTED GP TO "ALTERNATIVE 3" DIFFERENCE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B to C	NW	-21.69	23.87	0.00	9.22	-148.00	5,293	5,145	15,620
	SW	12.87	11.40	-32.67	-3.95	-110.00	4,150	4,040	12,265
	East	32.41	29.83	427.16	0.00	-1,846.00	1,419	-427	-1,296
	Bayfront								
							TOTAL	8,758	26,589

* - Population coefficient of 3.036 per household (DOF Jan. 1, 2003)

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GENERAL PLAN UPDATE LAND USE COMPARISON TABLES

Steering Committee Recommendation Alternative

July 22, 2004

EXISTING CONDITION

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A	NW	248.96	100.88	56.59	20.16	7,520	12,152	19,672	57,992
	SW	245.06	19.91	332.70	6.04	7,712	10,565	18,277	54,046
	East	215.57	79.08	221.00	0.50	20,781	8,722	29,503	89,158
	Bayfront	11.87	14.15	200.72	2.12				
							TOTAL	67,452	201,196

ADOPTED GENERAL PLAN

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B	NW	271.10	112.75	78.29	20.16	7,207	13,933	21,140	62,118
	SW	291.49	18.82	417.13	5.71	7,518	11,333	18,851	55,643
	East	533.72	184.44	839.98	18.78	30,307	17,826	48,133	144,631
	Bayfront	124.18	22.52	222.88	23.45		1,000	1,000	2,860
							TOTAL	89,124	265,252

"STEERING COMMITTEE LAND USE ALTERNATIVE "

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
C	NW	217.32	136.44	67.38	52.42	7,004	20,711	27,715	80,876
	SW	273.35	62.60	361.68	3.11	7,387	15,053	22,440	65,877
	East	508.43	202.13	976.22	38.78	29,254	22,640	51,894	155,145
	Bayfront	124.18	22.52	222.88	23.45		1,000	1,000	2,860
							TOTAL	103,049	304,758

EXISTING CONDITION TO ADOPTED CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to B	NW	22.14	11.87	21.70	0.00	-313	1,781	1,468	4,126
	SW	46.43	-1.09	84.43	-0.33	-194	768	574	1,597
	East	318.15	105.36	618.98	18.28	9,526	9,104	18,630	55,473
	Bayfront	112.31	8.37	22.16	21.33		1,000	1,000	2,860
							TOTAL	21,672	64,056

EXISTING CONDITION TO "STEERING COMMITTEE LAND USE ALTERNATIVE " CHANGE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
A to C	NW	-31.64	35.56	10.79	32.26	-516	8,559	8,043	22,884
	SW	28.29	42.69	28.98	-2.93	-325	4,488	4,163	11,831
	East	292.86	123.05	755.22	38.28	8,473	13,918	22,391	65,987
	Bayfront	112.31	8.37	22.16	21.33		1,000	1,000	2,860
							TOTAL	35,597	103,563

ADOPTED GP TO "STEERING COMMITTEE LAND USE ALTERNATIVE " DIFFERENCE

		Retail	Office	Industrial	Visitor	Single Family	Multi Family	TOT. RES.	EST. POP.*
		Ac	Ac	Ac	Ac	Units	Units	UNITS	
B to C	NW	-53.78	23.69	-10.91	32.26	-203	6,778	6,575	18,758
	SW	-18.14	43.78	-55.45	-2.60	-131	3,720	3,589	10,234
	East	-25.29	17.69	136.24	20.00	-1,053	4,814	3,761	10,514
	Bayfront	0.00	0.00	0.00	0.00		0.00	0.00	0.00
							TOTAL	13,925	39,506

* - Population coefficient of 3.09 per household for Single Family and 2.86 for Multi-Family Residential

- General Plan Land Use assumptions for Bayfront are to remain constant for Buildout Land Use. No position by Steering Committee.

(H:\PLANNING\GENERAL PLAN\LANDUSE ALTERNATIVE TABLE\LAND USE STATISTICS02.06.2004\ALT_1_SUMMARY_TABLE_4-6-2004.xls)

North-West Master Plan Model, Alternative 1

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow (gpd)	Residential Flow (cfs)	Non-Residential Flow (gpd)	Non-Residential Flow (cfs)	Total Flow (gpd)	Total Flow (cfs)	Cumulative Flow (gpd)	Cumulative Flow (cfs)
Sweetwater	869	Otay Lakes Road & Avenida Del Rey	395	0	7.92	0.00	72.29	0.00	395	195	800	1,400	0	0	77,025	0.12	6,338	0.01	83,363	0.13	83,363	0.13
	791	Otay Lakes Road - North of Avenida Del Rey	180	37	0.59	0.00	0.00	0.00	208	195	800	1,400	0	0	40,511	0.06	469	0.00	40,980	0.06	124,343	0.19
	324	Otay Lakes Road & Allen School Lane	327	0	0.27	0.00	8.17	0.00	327	195	800	1,400	0	0	63,765	0.10	219	0.00	63,984	0.10	188,327	0.29
	225	Otay Lakes Road & Songbird Lane	157	0	5.14	0.00	0.00	0.00	157	195	800	1,400	0	0	30,615	0.05	4,115	0.01	34,730	0.05	223,057	0.35
	1043	East H Street - East of Corral Canyon Road	1,024	669	0.10	0.00	17.42	34.95	1,526	195	800	1,400	0	0	297,521	0.46	84	0.00	297,605	0.46	297,605	0.46
	1384	Bristol Court & Hampton Court	239	4	1.32	0.00	0.00	0.00	242	195	800	1,400	0	0	47,190	0.07	1,055	0.00	48,245	0.07	345,850	0.54
	736	in Canyon	201	0	0.19	0.00	0.00	10.51	201	195	800	1,400	0	0	39,195	0.06	150	0.00	39,345	0.06	385,194	0.60
	475	Country Vistas Lane - East of Canyon Drive	461	0	0.00	0.00	0.00	1.54	461	195	800	1,400	0	0	89,895	0.14	0	0.00	89,895	0.14	475,089	0.74
	2042	Rancho Del Rey - South of Cima Del Rey	807	547	35.82	0.00	18.65	23.92	1,217	195	800	1,400	0	0	237,364	0.37	28,654	0.04	266,017	0.41	266,017	0.41
	1984	in Canyon	171	0	0.00	0.00	0.00	0.00	171	195	800	1,400	0	0	33,345	0.05	0	0.00	33,345	0.05	299,362	0.46
	2185	in Canyon	430	0	0.27	0.00	10.09	0.12	430	195	800	1,400	0	0	83,850	0.13	213	0.00	84,063	0.13	383,426	0.59
	2262	Ranch Del Rey - North of Del Rey Boulevard	220	139	0.85	0.00	4.99	5.01	324	195	800	1,400	0	0	63,229	0.10	681	0.00	63,910	0.10	447,336	0.69
	7609	Camino Del Sol - West of Plaza Amistad	815	0	0.11	0.00	0.43	12.86	815	195	800	1,400	0	0	158,925	0.25	84	0.00	159,009	0.25	159,009	0.25
	2874	East H Street - East of Paseo Del Rey	132	77	78.84	4.87	0.00	0.00	190	195	800	1,400	0	0	37,001	0.06	69,886	0.11	106,887	0.17	265,896	0.41
	2678	East H Street & Del Rey Boulevard	363	0	0.12	0.00	0.00	5.42	363	195	800	1,400	0	0	70,785	0.11	93	0.00	70,878	0.11	336,774	0.52
	2637	East H Street & Kemel Place	66	245	0.00	0.00	1.51	0.00	250	195	800	1,400	0	0	48,701	0.08	0	0.00	48,701	0.08	832,810	1.29
	2549	East H Street - West of Terra Nova Drive	548	702	20.08	0.00	1.00	16.06	1,075	195	800	1,400	0	0	209,528	0.32	16,063	0.02	225,591	0.35	1,058,401	1.64
	2355	East H Street - West of Hidden Vista Drive	582	0	12.49	0.00	18.55	0.00	582	195	800	1,400	0	0	113,490	0.18	9,993	0.02	123,483	0.19	1,181,884	1.83
	1074	Plaza Bonita Road - North of Bonita Road	182	454	4.37	3.99	3.17	20.17	523	195	800	1,400	0	0	101,888	0.16	9,076	0.01	110,965	0.17	1,292,849	2.00
	1080	C Street & Fifth Avenue	547	1,439	96.55	45.96	22.29	25.20	1,626	195	800	1,400	0	0	317,119	0.49	141,590	0.22	458,709	0.71	458,709	0.71
G Street	5291	Third Avenue - South of F Street	484	564	34.42	0.00	0.00	0.84	907	195	800	1,400	0	0	176,865	0.27	27,533	0.04	204,398	0.32	204,398	0.32
	5298	Garrett Avenue & Center Street	45	443	15.69	3.11	8.01	3.78	377	195	800	1,400	0	0	73,564	0.11	18,909	0.03	90,473	0.14	294,871	0.46
	5359	G Street & Third Avenue	1,183	1,074	13.06	0.28	39.93	0.00	1,989	195	800	1,400	0	0	387,758	0.60	10,842	0.02	398,599	0.62	398,599	0.62
	6391	G Street & Fourth Avenue	0	816	18.58	0.00	15.60	0.00	612	195	800	1,400	0	0	119,340	0.18	14,865	0.02	134,205	0.21	568,586	0.88
	6348	Fifth Avenue & Center Street	0	748	18.67	0.00	0.00	0.00	561	195	800	1,400	0	0	109,395	0.17	14,938	0.02	124,333	0.19	124,333	0.19
	2210	Broadway - North of E Street	602	2,583	19.46	4.37	9.58	1.85	2,539	195	800	1,400	0	0	495,154	0.77	21,687	0.03	516,841	0.80	516,841	0.80
	2903	Broadway & Park Way	29	251	1.23	0.00	0.43	0.00	217	195	800	1,400	0	0	42,364	0.07	991	0.00	43,355	0.07	560,196	0.87
	2650	Broadway & F Street	745	1,338	9.75	0.39	0.00	0.00	1,749	195	800	1,400	0	0	340,968	0.53	8,345	0.01	349,302	0.54	349,302	0.54
	3474	Broadway - South of H Street	113	510	30.52	0.15	4.05	0.00	496	195	800	1,400	0	0	96,623	0.15	24,621	0.04	121,244	0.19	121,244	0.19
	2982	G Street - West of Broadway	0	7,008	16.88	0.00	0.59	0.00	5,256	195	800	1,400	0	0	1,024,920	1.59	13,501	0.02	1,038,421	1.61	3,056,952	4.73
	2778	F Strat & Woodlawn Avenue	41	4,199	18.38	1.07	0.00	0.00	3,190	195	800	1,400	0	0	622,099	0.96	16,197	0.03	638,296	0.99	638,296	0.99
	3142	G Street - West of Bay Boulevard	0	0	4.91	4.82	0.00	0.00	0	195	800	1,400	0	0	0	0.00	10,677	0.02	10,677	0.02	1,969,158	3.05
	3169	G Street - West of Bay Boulevard	0	0	0.01	105.78	0.00	16.80	0	195	800	1,400	0	0	0	0.00	148,090	0.23	148,090	0.23	3,854,015	5.96
Telegraph	3371	J Street & Hilltop (South)	501	0	12.31	0.00	33.76	9.29	501	195	800	1,400	0	0	97,695	0.15	9,847	0.02	107,542	0.17	2,774,216	4.29
	3450	J Strett & Corte Maria avenue	44	0	0.00	0.00	0.00	0.00	44	195	800	1,400	0	0	8,580	0.01	0	0.00	8,580	0.01	258,259	0.40
	3362	J Street & Hilltop (North)	86	0	0.00	0.00	0.00	0.00	86	195	800	1,400	0	0	16,770	0.03	0	0.00	16,770	0.03	2,541,306	3.93
	3514	J Street & First Avenue	33	0	0.00	0.00	8.03	0.00	33	195	800	1,400	0	0	6,435	0.01	0	0.00	6,435	0.01	2,547,741	3.94
	3570	J Street & Alpine Avenue	146	574	9.32	0.20	0.00	0.00	577	195	800	1,400	0	0	112,418	0.17	7,739	0.01	120,157	0.19	2,926,158	4.53
	3922	J Street & Fourth Avenue	536	398	6.13	0.00	3.73	0.00	835	195	800	1,400	0	0	162,728	0.25	4,903	0.01	167,631	0.26	3,093,789	4.79
	4001	J Street & Fifth Avenue	460	694	9.03	0.00	8.23	0.00	981	195	800	1,400	0	0	191,198	0.30	7,221	0.01	198,418	0.31	3,292,207	5.09
	4097	J Street & J Esplanade	139	32	3.43	0.48	0.00	0.00	163	195	800	1,400	0	0	31,785	0.05	3,412	0.01	35,197	0.05	3,327,404	5.15
	3588	J Street - East of Elm Avenue	54	0	0.17	0.00	0.00	0.00	54	195	800	1,400	0	0	10,530	0.02	136	0.00	10,666	0.02	268,925	0.42
	3872	J Street & Garrett Avenue	83	0	0.00	0.00	0.00	0.00	83	195	800	1,400	0	0	16,185	0.03	4	0.00	16,189	0.03	285,114	0.44
	4074	J Street & Broadway	368	0	5.78	0.28	0.00	0.00	368	195	800	1,400	0	0	71,760	0.11	5,018	0.01	76,778	0.12	361,891	0.56
	5613	Naples Street & Hilltop Drive	2,324	118	2.36	0.51	98.60	8.16	2,413	195	800	1,400	0	0	470,438	0.73	2,617	0.00	473,054	0.73	473,054	0.73
	4512	Naples Street & Third Avenue	297	1,268	49.08	3.29	0.00	0.00	1,248	195	800	1,400	0	0	243,360	0.38	43,873	0.07	287,233	0.44	760,287	1.18
	4508	Moss Street & Broadway	552	1,338	35.95	14.14	143.89	5.86	1,556	195	800	1,400	0	0	303,323	0.47	48,556	0.08	351,878	0.54	351,878	0.54
	4567	Moss Street & Industrial Boulevard	152	0	9.51	8.26	6.16	0.00	152	195	800	1,400	0	0	29,640	0.05	19,172	0.03	48,812	0.08	1,160,978	1.80
	4328	Colorado Avenue & K Street	486	265	38.16	17.76	0.00	0.00	685	195	800	1,400	0	0	133,626	0.21	55,394	0.09	188,921	0.29	1,349,898	2.09
	4189	J Street & Colorado Avenue	114	0	0.00	46.09	0.00	0.00	114	195	800	1,400	0	0	22,230	0.03	64,532	0.10	86,762	0.13	4,764,064	7.37
	3294	G Street West of Bay Boulevard	0	0	0.00	27.11	0.00	0.00	0	195	800	1,400	0	0	0	0.00	37,949	0.06	37,949	0.06	37,949	0.06
	3578	Broadway - North of I Street	1,488	832	122.05	1.02	10.31	0.00	2,112	195	800	1,400	0	0	411,840	0.64	99,078	0.15	510,918	0.79	510,918	0.79
	4474	L Street & Bay Boulevard	53	0	122.62	0.17	0.00	0.49	53	195	800	1,400	0	0	10,335	0.02	98,324	0.15	108,659	0.17	108,659	0.17
	4233	Bay Boulevard & Marina Parkway	3	0	24.05	21.97	0.00	23.95	3	195	800	1,400	0	0	585	0.00	49,988	0.08	50,573	0.08	5,834,065	9.03

North-West Master Plan Model, Alternative 1

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Main Street	6279	Max Way - South of Rivera Court	899	86	0.00	29.19	56.11	30.96	964	195	800	1,400	0	0	187,883	0.29	40,864	0.06	228,747	0.35	228,747	0.35
	5883	Main Street & Hilltop Drive	279	0	1.03	1.17	2.00	4.95	279	195	800	1,400	0	0	54,405	0.08	2,464	0.00	56,869	0.09	285,616	0.44
	5879	Main Street - East of Reed Court	428	0	20.59	54.13	0.85	0.00	428	195	800	1,400	0	0	83,460	0.13	92,251	0.14	175,711	0.27	461,327	0.71
	4753	Second Avenue - North of Quintard Street	2,306	1,016	8.01	1.74	4.02	9.38	3,068	195	800	1,400	0	0	598,260	0.93	8,846	0.01	607,106	0.94	607,106	0.94
	4867	Quintard Street - West of Second Avenue	8	307	12.94	0.00	0.00	0.00	238	195	800	1,400	0	0	46,459	0.07	10,356	0.02	56,814	0.09	663,920	1.03
	5036	Third avenue & Tremont Street	857	87	2.28	2.47	11.45	4.25	722	195	800	1,400	0	0	140,838	0.22	5,292	0.01	146,130	0.23	1,095,161	1.69
	4940	Third Avenue & Orange Avenue	221	1,540	6.64	8.20	6.98	0.00	1,376	195	800	1,400	0	0	268,320	0.42	16,790	0.03	285,110	0.44	949,030	1.47
	5121	Main Street & Fourth Avenue	763	843	26.92	39.52	7.41	0.00	1,395	195	800	1,400	0	0	272,074	0.42	76,858	0.12	348,932	0.54	2,854,450	4.42
	5110	Main Street - West of Jacqua Street	0	0	8.56	33.75	0.00	0.00	0	195	800	1,400	0	0	0	0.00	54,098	0.08	54,098	0.08	2,908,548	4.50
	4595	Oxford street & Second avenue	1,816	14	3.17	0.00	41.10	19.57	1,827	195	800	1,400	0	0	356,168	0.55	2,540	0.00	358,707	0.56	358,707	0.56
	4631	Oxford Street & Third avenue	212	407	17.80	0.00	12.22	0.00	517	195	800	1,400	0	0	100,864	0.16	14,239	0.02	115,103	0.18	473,810	0.73
	4722	Oxford Street & Broadway	421	1,820	78.75	13.86	9.53	0.00	1,786	195	800	1,400	0	0	348,270	0.54	82,407	0.13	430,677	0.67	904,487	1.40
	4856	Industrial Boulevard & Palomar Street	140	1,869	20.90	32.29	1.70	0.00	1,542	195	800	1,400	0	0	300,641	0.47	61,919	0.10	362,560	0.56	1,267,047	1.96
	4952	Industrial Boulevard - North of Dorothy Street	105	325	58.36	31.59	0.00	0.00	349	195	800	1,400	0	0	68,006	0.11	91,718	0.14	159,724	0.25	1,426,771	2.21

North-West Master Plan Model, Alternative 2

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow (gpd)	Residential Flow (cfs)	Non-Residential Flow (gpd)	Non-Residential Flow (cfs)	Total Flow (gpd)	Total Flow (cfs)	Cumulative Flow (gpd)	Cumulative Flow (cfs)
Sweetwater	869	Otay Lakes Road & Avenida Del Rey	395	0	7.92	0.00	72.29	0.00	395	195	800	1,400	0	0	77,025	0.12	6,338	0.01	83,363	0.13	83,363	0.13
	791	Otay Lakes Road - North of Avenida Del Rey	180	37	0.69	0.00	0.00	0.00	208	195	800	1,400	0	0	40,511	0.06	469	0.00	40,980	0.06	124,343	0.19
	324	Otay Lakes Road & Allen School Lane	327	0	0.27	0.00	8.17	0.00	327	195	800	1,400	0	0	63,765	0.10	219	0.00	63,984	0.10	188,327	0.29
	225	Otay Lakes Road & Songbird Lane	157	0	5.14	0.00	0.00	0.00	157	195	800	1,400	0	0	30,615	0.05	4,115	0.01	34,730	0.05	223,057	0.35
	1043	East H Street - East of Corral Canyon Road	1,024	669	0.10	0.00	17.42	34.96	1,526	195	800	1,400	0	0	297,521	0.46	84	0.00	297,605	0.46	297,605	0.46
	1384	Bristol Court & Hampton Court	239	4	1.32	0.00	0.00	0.00	242	195	800	1,400	0	0	47,190	0.07	1,055	0.00	48,245	0.07	345,850	0.54
	736	In Canyon	201	0	0.19	0.00	0.00	10.51	201	195	800	1,400	0	0	39,195	0.06	150	0.00	39,345	0.06	385,194	0.60
	475	Country Vistas Lane - East of Canyon Drive	461	0	0.00	0.00	0.00	1.54	461	195	800	1,400	0	0	89,895	0.14	0	0.00	89,895	0.14	475,089	0.74
	2042	Rancho Del Rey - South of Cima Del Rey	807	547	35.82	0.00	18.65	23.92	1,217	195	800	1,400	0	0	237,364	0.37	28,654	0.04	266,017	0.41	266,017	0.41
	1984	In Canyon	171	0	0.00	0.00	0.00	0.00	171	195	800	1,400	0	0	33,345	0.05	0	0.00	33,345	0.05	299,362	0.46
	2165	In Canyon	430	0	0.27	0.00	10.09	0.12	430	195	800	1,400	0	0	83,850	0.13	213	0.00	84,063	0.13	383,426	0.59
	2262	Ranch Del Rey - North of Del Rey Boulevard	220	139	0.86	0.00	4.99	5.01	324	195	800	1,400	0	0	63,229	0.10	681	0.00	63,910	0.10	447,336	0.69
	7609	Camino Del Sol - West of Plaza Amistad	815	0	0.11	0.00	0.43	12.86	815	195	800	1,400	0	0	158,925	0.25	84	0.00	159,009	0.25	159,009	0.25
	2874	East H Street - East of Paseo Del Rey	132	77	78.84	4.87	0.00	0.00	190	195	800	1,400	0	0	37,001	0.06	69,886	0.11	106,887	0.17	265,896	0.41
	2678	East H Street & Del Rey Boulevard	363	0	0.12	0.00	0.00	5.42	363	195	800	1,400	0	0	70,785	0.11	93	0.00	70,878	0.11	336,774	0.52
	2637	East H Street & Kemel Place	66	245	0.00	0.00	1.51	0.00	250	195	800	1,400	0	0	48,701	0.08	0	0.00	48,701	0.08	832,810	1.29
	2549	East H Street - West of Terra Nova Drive	548	702	20.08	0.00	1.00	16.06	1,075	195	800	1,400	0	0	209,528	0.32	16,063	0.02	225,591	0.35	1,058,401	1.64
	2355	East H Street - West of Hidden Vista Drive	582	0	12.49	0.00	18.55	0.00	582	195	800	1,400	0	0	113,490	0.18	9,993	0.02	123,483	0.19	1,181,884	1.83
	1074	Plaza Bonita Road - North of Bonita Road	182	395	7.37	3.99	3.17	17.17	478	195	800	1,400	0	0	93,259	0.14	11,478	0.02	104,737	0.16	1,286,620	1.99
	1080	C Street & Fifth Avenue	547	1,566	93.23	45.96	22.29	25.20	1,722	195	800	1,400	0	0	335,693	0.52	138,934	0.21	474,627	0.73	474,627	0.73
G Street	5291	Third Avenue - South of F Street	484	1,138	18.46	0.00	0.00	0.84	1,338	195	800	1,400	0	0	260,813	0.40	14,765	0.02	275,577	0.43	275,577	0.43
	5298	Garrett Avenue & Center Street	45	443	15.69	3.11	8.01	3.78	377	195	800	1,400	0	0	73,564	0.11	16,909	0.03	90,473	0.14	366,050	0.57
	5359	G Street & Third Avenue	1,183	1,416	10.54	0.28	39.93	0.00	2,245	195	800	1,400	0	0	437,775	0.68	8,826	0.01	446,601	0.69	446,601	0.69
	5391	G Street & Fourth Avenue	0	1,224	16.04	0.00	15.80	0.00	918	195	800	1,400	0	0	179,010	0.28	12,833	0.02	191,843	0.30	714,204	1.11
	5348	Fifth Avenue & Center Street	0	778	17.84	0.00	0.00	0.00	584	195	800	1,400	0	0	113,783	0.18	14,274	0.02	128,056	0.20	128,056	0.20
	2210	Broadway - North of E Street	611	1,724	26.28	4.37	9.58	1.85	1,904	195	800	1,400	0	0	371,280	0.57	27,143	0.04	398,423	0.62	398,423	0.62
	2903	Broadway & Park Way	29	251	1.23	0.00	0.43	0.00	217	195	800	1,400	0	0	42,364	0.07	991	0.00	43,355	0.07	441,778	0.68
	2650	Broadway & F Street	745	744	13.36	0.39	0.00	0.00	1,303	195	800	1,400	0	0	254,085	0.39	11,233	0.02	265,318	0.41	265,318	0.41
	3474	Broadway - South of H Street	113	498	0.00	0.15	4.05	0.00	487	195	800	1,400	0	0	94,868	0.15	208	0.00	95,076	0.15	95,076	0.15
	2962	G Street - West of Broadway	0	3,815	33.41	0.00	0.59	0.00	2,861	195	800	1,400	0	0	557,944	0.86	26,725	0.04	584,669	0.90	2,595,150	4.02
	2778	F Street & Woodlawn Avenue	50	2,232	27.43	2.49	0.00	0.00	1,724	195	800	1,400	0	0	336,180	0.52	25,425	0.04	361,605	0.56	361,605	0.56
	3142	G Street - West of Bay Boulevard	0	0	4.91	4.82	0.00	0.00	0	195	800	1,400	0	0	0	0.00	10,677	0.02	10,677	0.02	1,577,758	2.44
	3169	G Street - West of Bay Boulevard	0	0	0.01	105.78	0.00	16.80	0	195	800	1,400	0	0	0	0.00	148,090	0.23	148,090	0.23	3,115,523	4.82
Telegraph	3371	J Street & Hilltop (South)	501	0	12.31	0.00	33.76	9.29	501	195	800	1,400	0	0	97,695	0.15	9,847	0.02	107,542	0.17	2,774,216	4.29
	3450	J Strett & Corte Maria avenue	44	0	0.00	0.00	0.00	0.00	44	195	800	1,400	0	0	8,580	0.01	0	0.00	8,580	0.01	258,259	0.40
	3362	J Street & Hilltop (North)	86	0	0.00	0.00	0.00	0.00	86	195	800	1,400	0	0	16,770	0.03	0	0.00	16,770	0.03	2,541,306	3.93
	3514	J Street & First Avenue	33	0	0.00	0.00	8.03	0.00	33	195	800	1,400	0	0	6,435	0.01	0	0.00	6,435	0.01	2,547,741	3.94
	3570	J Strat & Alpine Avenue	156	40	15.62	0.20	0.78	0.00	186	195	800	1,400	0	0	36,270	0.06	12,779	0.02	49,049	0.08	2,855,050	4.42
	3922	J Street & Fourth Avenue	536	398	6.13	0.00	3.73	0.00	835	195	800	1,400	0	0	162,728	0.25	4,903	0.01	167,631	0.26	3,022,681	4.68
	4001	J Street & Fifth Avenue	479	142	20.56	0.00	8.23	0.00	577	195	800	1,400	0	0	112,418	0.17	16,445	0.03	128,862	0.20	3,151,544	4.88
	4097	J Street & J Esplanade	139	244	0.00	0.48	0.00	0.00	322	195	800	1,400	0	0	62,790	0.10	668	0.00	63,458	0.10	3,215,001	4.97
	3588	J Street - East of Elm Avenue	54	0	0.17	0.00	0.00	0.00	54	195	800	1,400	0	0	10,530	0.02	136	0.00	10,666	0.02	268,925	0.42
	3872	J Street & Garrett Avenue	83	0	0.00	0.00	0.00	0.00	83	195	800	1,400	0	0	16,185	0.03	4	0.00	16,189	0.03	285,114	0.44
	4074	J Street & Broadway	368	311	0.00	0.28	0.00	0.00	601	195	800	1,400	0	0	117,244	0.18	396	0.00	117,640	0.18	402,754	0.62
	5613	Naples Street & Hilltop Drive	2,324	118	2.38	0.51	98.60	8.16	2,413	195	800	1,400	0	0	470,438	0.73	2,617	0.00	473,054	0.73	473,054	0.73
	4512	Naples Street & Third Avenue	297	1,682	37.72	3.29	0.00	0.00	1,559	195	800	1,400	0	0	303,908	0.47	34,785	0.05	338,692	0.52	811,747	1.26
	4508	Moss Street & Broadway	548	1,686	24.15	18.13	143.89	4.61	1,813	195	800	1,400	0	0	353,438	0.55	44,702	0.07	398,139	0.62	398,139	0.62
	4567	Moss Street & Industrial Boulevard	152	22	1.86	7.26	15.81	0.00	169	195	800	1,400	0	0	32,858	0.05	11,652	0.02	44,510	0.07	1,254,396	1.94
	4328	Colorado Avenue & K Street	486	549	31.37	17.76	9.86	0.00	898	195	800	1,400	0	0	175,061	0.27	49,962	0.08	225,024	0.35	1,479,419	2.29
	4189	J Street & Colorado Avenue	114	0	0.00	46.09	0.00	0.00	114	195	800	1,400	0	0	22,230	0.03	64,532	0.10	86,762	0.13	4,781,182	7.40
	3294	G Street West of Bay Boulevard	0	0	0.00	27.11	0.00	0.00	0	195	800	1,400	0	0	0	0.00	37,949	0.06	37,949	0.06	37,949	0.06
	3578	Broadway - North of I Street	1,488	832	122.05	1.02	19.31	0.00	2,112	195	800	1,400	0	0	411,840	0.64	99,078	0.15	510,918	0.79	510,918	0.79
	4474	L Street & Bay Boulevard	53	0	122.62	0.17	0.00	0.49	53	195	800	1,400	0	0	10,335	0.02	98,324	0.15	108,659	0.17	108,659	0.17
	4233	Bay Boulevard & Marina Parkway	3	0	24.05	21.97	0.00	23.95	3	195	800	1,400	0	0	585	0.00	49,988	0.08	50,573	0.08	5,892,035	9.12

North-West Master Plan Model, Alternative 2

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Main Street	6279	Max Way - South of Rivera Court	899	88	0.00	29.19	56.11	30.96	964	195	800	1,400	0	0	187,883	0.29	40,864	0.06	228,747	0.35	228,747	0.35
	5883	Main Street & Hilltop Drive	279	0	1.03	1.17	2.00	4.95	279	195	800	1,400	0	0	54,405	0.08	2,464	0.00	56,869	0.09	285,616	0.44
	5879	Main Street - East of Reed Court	419	0	18.91	58.59	0.85	0.00	419	195	800	1,400	0	0	81,705	0.13	97,151	0.15	178,856	0.28	464,472	0.72
	4753	Second Avenue - North of Quintard Street	2,306	1,016	8.01	1.74	4.02	9.38	3,068	195	800	1,400	0	0	598,260	0.93	8,846	0.01	607,106	0.94	607,106	0.94
	4867	Quintard Street - West of Second Avenue	8	307	12.94	0.00	0.00	0.00	238	195	800	1,400	0	0	46,459	0.07	10,356	0.02	56,814	0.09	663,920	1.03
	5036	Third avenue & Tremont Street	636	208	2.28	6.25	11.45	4.25	792	195	800	1,400	0	0	154,440	0.24	10,584	0.02	165,024	0.26	1,030,255	1.59
	4940	Third Avenue & Orange Avenue	221	866	28.03	8.53	6.98	0.00	871	195	800	1,400	0	0	169,748	0.26	31,564	0.05	201,311	0.31	865,232	1.34
	5121	Main Street & Fourth Avenue	763	843	26.92	39.52	7.41	0.00	1,395	195	800	1,400	0	0	272,074	0.42	76,858	0.12	348,932	0.54	2,708,891	4.19
	5110	Main Street - West of Jacqua Street	4	0	8.56	29.94	0.00	0.00	4	195	800	1,400	0	0	780	0.00	48,764	0.08	49,544	0.08	2,758,435	4.27
	4595	Oxford street & Second avenue	1,816	14	3.17	0.00	41.10	19.57	1,827	195	800	1,400	0	0	356,168	0.55	2,540	0.00	358,707	0.56	358,707	0.56
	4631	Oxford Street & Third avenue	212	733	10.11	0.00	12.22	0.00	762	195	800	1,400	0	0	148,541	0.23	8,087	0.01	156,628	0.24	515,335	0.80
	4722	Oxford Street & Broadway	421	2,047	71.31	14.57	9.53	0.00	1,956	195	800	1,400	0	0	381,469	0.59	77,449	0.12	458,918	0.71	974,253	1.51
	4856	Industrial Boulevard & Palomar Street	140	1,999	7.27	30.86	0.25	0.00	1,639	195	800	1,400	0	0	319,554	0.49	49,013	0.08	368,566	0.57	1,342,919	2.08
	4962	Industrial Boulevard - North of Dorothy Street	105	261	39.51	31.59	15.48	0.00	301	195	800	1,400	0	0	58,646	0.09	75,838	0.12	134,484	0.21	1,477,404	2.29

North-West Master Plan Model, Alternative 3

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow (gpd)	Residential Flow (cfs)	Non-Residential Flow (gpd)	Non-Residential Flow (cfs)	Total Flow (gpd)	Total Flow (cfs)	Cumulative Flow (gpd)	Cumulative Flow (cfs)
Sweetwater	869	Otay Lakes Road & Avenida Del Rey	395	0	7.92	0.00	72.29	0.00	395	195	800	1,400	0	0	77,025	0.12	6,338	0.01	83,363	0.13	83,363	0.13
	791	Otay Lakes Road - North of Avenida Del Rey	180	37	0.59	0.00	0.00	0.00	208	195	800	1,400	0	0	40,511	0.06	469	0.00	40,980	0.06	124,343	0.19
	324	Otay Lakes Road & Allen School Lane	327	0	0.27	0.00	8.17	0.00	327	195	800	1,400	0	0	63,765	0.10	219	0.00	63,984	0.10	188,327	0.29
	225	Otay Lakes Road & Songbird Lane	157	0	5.14	0.00	0.00	0.00	157	195	800	1,400	0	0	30,615	0.05	4,115	0.01	34,730	0.05	223,057	0.35
	1043	East H Street - East of Corral Canyon Road	1,024	669	0.10	0.00	17.42	34.96	1,526	195	800	1,400	0	0	297,521	0.46	84	0.00	297,605	0.46	297,605	0.46
	1384	Bristol Court & Hampton Court	239	4	1.32	0.00	0.00	0.00	242	195	800	1,400	0	0	47,190	0.07	1,055	0.00	48,245	0.07	345,850	0.54
	736	in Canyon	201	0	0.19	0.00	0.00	10.51	201	195	800	1,400	0	0	39,195	0.06	150	0.00	39,345	0.06	385,194	0.60
	475	Country Vistas Lane - East of Canyon Drive	461	0	0.00	0.00	0.00	1.54	461	195	800	1,400	0	0	89,895	0.14	0	0.00	89,895	0.14	475,089	0.74
	2042	Rancho Del Rey - South of Cima Del Rey	807	547	35.82	0.00	18.65	23.92	1,217	195	800	1,400	0	0	237,364	0.37	28,654	0.04	266,017	0.41	266,017	0.41
	1984	in Canyon	171	0	0.00	0.00	0.00	0.00	171	195	800	1,400	0	0	33,345	0.05	0	0.00	33,345	0.05	299,362	0.46
	2165	in Canyon	430	0	0.27	0.00	10.09	0.12	430	195	800	1,400	0	0	83,850	0.13	213	0.00	84,063	0.13	383,426	0.59
	2262	Ranch Del Rey - North of Del Rey Boulevard	220	139	0.85	0.00	4.99	5.01	324	195	800	1,400	0	0	63,229	0.10	681	0.00	63,910	0.10	447,336	0.69
	7609	Camino Del Sol - West of Plaza Amistad	815	0	0.11	0.00	0.43	12.86	815	195	800	1,400	0	0	158,925	0.25	84	0.00	159,009	0.25	159,009	0.25
	2874	East H Street - East of Paseo Del Rey	132	77	78.84	4.87	0.00	0.00	190	195	800	1,400	0	0	37,001	0.06	69,886	0.11	106,887	0.17	265,896	0.41
	2678	East H Street & Del Rey Boulevard	363	0	0.12	0.00	0.00	5.42	363	195	800	1,400	0	0	70,785	0.11	93	0.00	70,878	0.11	336,774	0.52
	2637	East H Street & Kemel Place	66	245	0.00	0.00	1.51	0.00	250	195	800	1,400	0	0	48,701	0.08	0	0.00	48,701	0.08	832,810	1.29
	2549	East H Street - West of Terra Nova Drive	548	702	20.08	0.00	1.00	16.06	1,076	195	800	1,400	0	0	209,528	0.32	16,063	0.02	225,591	0.35	1,058,401	1.64
	2355	East H Street - West of Hidden Vista Drive	582	0	12.49	0.00	18.55	0.00	582	195	800	1,400	0	0	113,490	0.18	9,993	0.02	123,483	0.19	1,181,884	1.83
	1074	Plaza Bonita Road - North of Bonita Road	167	395	4.37	3.99	0.00	20.17	463	195	800	1,400	0	0	90,334	0.14	9,078	0.01	99,412	0.15	1,281,295	1.98
	1080	C Street & Fifth Avenue	647	1,309	87.94	56.87	4.97	0.00	1,529	195	800	1,400	0	0	298,106	0.46	149,976	0.23	448,082	0.69	448,082	0.69
G Street	5291	Third Avenue - South of F Street	484	1,787	17.08	0.00	0.00	0.84	1,824	195	800	1,400	0	0	355,729	0.55	13,661	0.02	369,389	0.57	369,389	0.57
	5298	Garrett Avenue & Center Street	45	619	23.70	3.11	0.71	3.78	509	195	800	1,400	0	0	99,304	0.15	23,317	0.04	122,621	0.19	492,011	0.76
	5359	G Street & Third Avenue	1,183	812	14.19	0.28	10.31	0.00	1,792	195	800	1,400	0	0	349,440	0.54	11,746	0.02	361,186	0.56	361,186	0.56
	5391	G Street & Fourth Avenue	0	764	14.35	0.00	0.00	0.00	573	195	800	1,400	0	0	111,735	0.17	11,481	0.02	123,216	0.19	741,642	1.15
	5348	Fifth Avenue & Center Street	0	917	16.20	0.00	0.00	0.00	688	195	800	1,400	0	0	134,111	0.21	12,962	0.02	147,073	0.23	147,073	0.23
	2210	Broadway - North of E Street	826	1,681	37.25	4.37	0.00	1.85	1,887	195	800	1,400	0	0	367,916	0.57	35,919	0.06	403,835	0.62	403,835	0.62
	2903	Broadway & Park Way	29	251	1.23	0.00	0.43	0.00	217	195	800	1,400	0	0	42,364	0.07	991	0.00	43,355	0.07	447,190	0.69
	2650	Broadway & F Street	745	1,185	14.00	0.39	0.00	0.00	1,634	195	800	1,400	0	0	318,581	0.49	11,745	0.02	330,326	0.51	330,326	0.51
	3474	Broadway - South of H Street	113	430	38.56	0.15	4.05	0.00	436	195	800	1,400	0	0	84,923	0.13	31,053	0.05	115,976	0.18	115,976	0.18
	2982	G Street - West of Broadway	21	6,774	25.47	0.00	0.00	0.00	5,102	195	800	1,400	0	0	994,793	1.54	20,373	0.03	1,015,165	1.57	3,289,383	5.09
	2778	F Strat & Woodlawn Avenue	89	3,622	28.95	2.49	0.00	0.00	2,806	195	800	1,400	0	0	547,073	0.85	26,641	0.04	573,713	0.89	573,713	0.89
	3142	G Street - West of Bay Boulevard	0	0	4.91	4.82	0.00	0.00	0	195	800	1,400	0	0	0	0.00	10,677	0.02	10,677	0.02	2,058,118	3.18
	3169	G Street - West of Bay Boulevard	0	0	0.01	105.78	0.00	16.80	0	195	800	1,400	0	0	0	0.00	148,090	0.23	148,090	0.23	4,021,864	6.22
Telegraph	3371	J Street & Hilltop (South)	501	0	12.31	0.00	33.76	9.29	501	195	800	1,400	0	0	97,695	0.15	9,847	0.02	107,542	0.17	2,774,216	4.29
	3450	J Strett & Corte Maria avenue	44	0	0.00	0.00	0.00	0.00	44	195	800	1,400	0	0	8,580	0.01	0	0.00	8,580	0.01	258,259	0.40
	3362	J Street & Hilltop (North)	86	0	0.00	0.00	0.00	0.00	86	195	800	1,400	0	0	16,770	0.03	0	0.00	16,770	0.03	2,541,306	3.93
	3514	J Street & First Avenue	33	0	0.00	0.00	8.03	0.00	33	195	800	1,400	0	0	6,435	0.01	0	0.00	6,435	0.01	2,547,741	3.94
	3570	J Strat & Alpine Avenue	156	40	15.06	0.20	0.00	0.00	186	195	800	1,400	0	0	36,270	0.06	12,331	0.02	48,601	0.08	2,854,602	4.42
	3922	J Street & Fourth Avenue	536	398	6.13	0.00	3.73	0.00	836	195	800	1,400	0	0	162,728	0.25	4,903	0.01	167,631	0.26	3,022,233	4.68
	4001	J Street & Fifth Avenue	470	142	20.56	0.00	8.23	0.00	577	195	800	1,400	0	0	112,418	0.17	16,445	0.03	128,862	0.20	3,151,096	4.88
	4097	J Street & J Esplanade	139	32	3.43	0.48	0.00	0.00	163	195	800	1,400	0	0	31,785	0.05	3,412	0.01	35,197	0.05	3,186,293	4.93
	3588	J Street - East of Elm Avenue	54	0	0.17	0.00	0.00	0.00	54	195	800	1,400	0	0	10,530	0.02	136	0.00	10,666	0.02	268,925	0.42
	3872	J Street & Garrett Avenue	83	0	0.00	0.00	0.00	0.00	83	195	800	1,400	0	0	16,185	0.03	4	0.00	16,189	0.03	285,114	0.44
	4074	J Street & Broadway	368	15	5.78	0.28	0.00	0.00	379	195	800	1,400	0	0	73,954	0.11	5,018	0.01	78,971	0.12	364,085	0.56
	5613	Naples Street & Hilltop Drive	2,324	118	2.38	0.51	98.60	8.16	2,413	195	800	1,400	0	0	470,438	0.73	2,617	0.00	473,054	0.73	473,054	0.73
	4512	Naples Street & Third Avenue	260	1,359	49.97	3.29	0.00	0.00	1,279	195	800	1,400	0	0	249,454	0.39	44,585	0.07	294,039	0.45	767,093	1.19
	4508	Moss Street & Broadway	548	1,870	18.55	18.13	105.65	4.61	1,951	195	800	1,400	0	0	380,348	0.59	40,222	0.06	420,569	0.65	420,569	0.65
	4567	Moss Street & Industrial Boulevard	159	0	9.51	8.26	8.16	0.00	159	195	800	1,400	0	0	31,005	0.05	19,172	0.03	50,177	0.08	1,237,839	1.92
	4328	Colorado Avenue & K Street	486	265	38.16	17.76	0.00	0.00	685	195	800	1,400	0	0	133,526	0.21	55,394	0.09	188,921	0.29	1,426,760	2.21
	4189	J Street & Colorado Avenue	114	0	0.00	46.09	0.00	0.00	114	195	800	1,400	0	0	22,230	0.03	64,532	0.10	86,762	0.13	4,699,815	7.27
	3294	G Street West of Bay Boulevard	0	0	0.00	27.11	0.00	0.00	0	195	800	1,400	0	0	0	0.00	37,949	0.06	37,949	0.06	37,949	0.06
	3578	Broadway - North of I Street	1,488	832	122.05	1.02	10.31	0.00	2,112	195	800	1,400	0	0	411,840	0.64	99,078	0.15	510,918	0.79	510,918	0.79
	4474	L Street & Bay Boulevard	53	0	122.62	0.17	0.00	0.49	53	195	800	1,400	0	0	10,335	0.02	98,324	0.15	108,659	0.17	108,659	0.17
	4233	Bay Boulevard & Marina Parkway	3	0	24.05	21.97	0.00	23.95	3	195	800	1,400	0	0	585	0.00	49,988	0.08	50,573	0.08	5,771,999	8.93

North-West Master Plan Model, Alternative 3

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Main Steel	6279	Max Way - South of Rivera Court	899	219	0.00	25.09	56.11	30.96	1,063	195	800	1,400	0	0	207,334	0.32	35,124	0.05	242,458	0.38	242,458	0.38
	5683	Main Street & Hilltop Drive	279	0	1.03	1.17	2.00	4.96	279	195	800	1,400	0	0	54,405	0.08	2,464	0.00	56,869	0.09	299,327	0.46
	5879	Main Street - East of Reed Court	419	0	29.01	48.92	0.00	0.00	419	195	800	1,400	0	0	81,705	0.13	91,693	0.14	173,398	0.27	472,725	0.73
	4753	Second Avenue - North of Quintard Street	2,306	1,016	8.01	1.74	4.02	9.38	3,068	195	800	1,400	0	0	598,260	0.93	8,846	0.01	607,106	0.94	607,106	0.94
	4867	Quintard Street - West of Second Avenue	8	307	12.94	0.00	0.00	0.00	238	195	800	1,400	0	0	46,459	0.07	10,356	0.02	56,814	0.09	663,920	1.03
	5036	Third avenue & Tremont Street	636	208	9.89	0.00	0.00	4.25	792	195	800	1,400	0	0	154,440	0.24	7,915	0.01	162,355	0.25	1,028,589	1.59
	4940	Third Avenue & Orange Avenue	221	866	26.36	8.20	0.00	0.00	871	195	800	1,400	0	0	169,748	0.26	32,566	0.05	202,313	0.31	866,234	1.34
	5121	Main Street & Fourth Avenue	763	843	26.92	39.52	7.41	0.00	1,395	195	800	1,400	0	0	272,074	0.42	76,858	0.12	348,932	0.54	2,716,479	4.20
	5110	Main Street - West of Jacqua Street	4	0	8.56	29.94	0.00	0.00	4	195	800	1,400	0	0	780	0.00	48,764	0.08	49,544	0.08	2,766,023	4.28
	4595	Oxford street & Second avenue	1,816	14	3.17	0.00	41.10	19.57	1,827	195	800	1,400	0	0	356,168	0.55	2,540	0.00	358,707	0.56	358,707	0.56
	4631	Oxford Street & Third avenue	212	375	19.03	0.00	11.24	0.00	493	195	800	1,400	0	0	96,184	0.15	15,223	0.02	111,407	0.17	470,114	0.73
	4722	Oxford Street & Broadway	421	1,964	71.07	14.57	1.51	0.00	1,894	195	800	1,400	0	0	369,330	0.57	77,257	0.12	446,587	0.69	916,701	1.42
	4856	Industrial Boulevard & Palomar Street	140	1,373	5.31	39.92	0.00	0.00	1,170	195	800	1,400	0	0	228,101	0.35	60,129	0.09	288,230	0.45	1,204,931	1.86
	4952	Industrial Boulevard - North of Dorothy Street	105	259	61.68	31.59	0.00	0.00	299	195	800	1,400	0	0	58,354	0.09	93,574	0.14	151,928	0.24	1,356,858	2.10

North-West Master Plan Model, Preferred Alternative

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow (gpd)	Residential Flow (cfs)	Non-Residential Flow (gpd)	Non-Residential Flow (cfs)	Total Flow (gpd)	Total Flow (cfs)	Cumulative Flow (gpd)	Cumulative Flow (cfs)
Sweetwater	869	Otay Lakes Road & Avenida Del Rey	395	0	7.92	0.00	72.29	0.00	395	195	800	1,400	0	0	77,025	0.12	6,338	0.01	83,363	0.13	83,363	0.13
	791	Otay Lakes Road - North of Avenida Del Rey	180	37	0.59	0.00	0.00	0.00	208	195	800	1,400	0	0	40,511	0.06	469	0.00	40,980	0.06	124,343	0.19
	324	Otay Lakes Road & Allen School Lane	327	0	0.27	0.00	8.17	0.00	327	195	800	1,400	0	0	63,765	0.10	219	0.00	63,984	0.10	188,327	0.29
	225	Otay Lakes Road & Songbird Lane	157	0	5.14	0.00	0.00	0.00	157	195	800	1,400	0	0	30,615	0.05	4,115	0.01	34,730	0.05	223,057	0.35
	1043	East H Street - East of Corral Canyon Road	1,024	669	0.10	0.00	17.42	34.95	1,526	195	800	1,400	0	0	297,521	0.46	84	0.00	297,605	0.46	297,605	0.46
	1384	Bristol Court & Hampton Court	239	4	1.32	0.00	0.00	0.00	242	195	800	1,400	0	0	47,190	0.07	1,055	0.00	48,245	0.07	345,850	0.54
	736	in Canyon	201	0	0.19	0.00	0.00	10.51	201	195	800	1,400	0	0	39,195	0.06	150	0.00	39,345	0.06	385,194	0.60
	475	Country Vistas Lane - East of Canyon Drive	461	0	0.00	0.00	0.00	1.54	461	195	800	1,400	0	0	89,895	0.14	0	0.00	89,895	0.14	475,089	0.74
	2042	Rancho Del Rey - South of Cima Del Rey	807	647	35.82	0.00	18.65	23.92	1,217	195	800	1,400	0	0	237,364	0.37	28,654	0.04	266,017	0.41	266,017	0.41
	1984	in Canyon	171	0	0.00	0.00	0.00	0.00	171	195	800	1,400	0	0	33,345	0.05	0	0.00	33,345	0.05	299,362	0.46
	2165	in Canyon	430	0	0.27	0.00	10.09	0.12	430	195	800	1,400	0	0	83,850	0.13	213	0.00	84,063	0.13	383,426	0.59
	2262	Ranch Del Rey - North of Del Rey Boulevard	220	139	0.85	0.00	4.99	5.01	324	195	800	1,400	0	0	63,229	0.10	681	0.00	63,910	0.10	447,336	0.69
	7609	Camino Del Sol - West of Plaza Amistad	815	0	0.11	0.00	0.43	12.86	815	195	800	1,400	0	0	158,925	0.25	84	0.00	159,009	0.25	159,009	0.25
	2874	East H Street - East of Paseo Del Rey	132	77	78.84	4.87	0.00	0.00	190	195	800	1,400	0	0	37,001	0.06	69,886	0.11	106,887	0.17	265,896	0.41
	2678	East H Street & Del Rey Boulevard	363	0	0.12	0.00	0.00	5.42	363	195	800	1,400	0	0	70,785	0.11	93	0.00	70,878	0.11	336,774	0.52
	2637	East H Street & Kemel Place	66	245	0.00	0.00	1.51	0.00	250	195	800	1,400	0	0	48,701	0.08	0	0.00	48,701	0.08	832,810	1.29
	2549	East H Street - West of Terra Nova Drive	548	702	20.08	0.00	1.00	16.06	1,075	195	800	1,400	0	0	209,528	0.32	16,063	0.02	225,591	0.35	1,058,401	1.64
	2355	East H Street - West of Hidden Vista Drive	582	0	12.49	0.00	18.55	0.00	582	195	800	1,400	0	0	113,490	0.18	9,993	0.02	123,483	0.19	1,181,884	1.83
	1074	Plaza Bonita Road - North of Bonita Road	126	396	4.37	3.99	3.17	0.00	422	195	800	1,400	0	0	82,339	0.13	9,078	0.01	91,417	0.14	1,273,300	1.97
	1080	C Street & Fifth Avenue	569	1,197	85.62	45.96	26.61	17.65	1,467	195	800	1,400	0	0	286,016	0.44	132,846	0.21	418,862	0.65	418,862	0.65
G Street	5291	Third Avenue - South of F Street	552	469	20.92	0.00	4.23	1.00	904	195	800	1,400	0	0	176,231	0.27	16,733	0.03	192,964	0.30	192,964	0.30
	5298	Garrett Avenue & Center Street	102	392	21.57	3.34	7.09	3.78	396	195	800	1,400	0	0	77,220	0.12	21,935	0.03	99,155	0.15	292,119	0.45
	5358	G Street & Third Avenue	1,211	442	9.17	0.28	45.22	0.00	1,543	195	800	1,400	0	0	300,788	0.47	7,730	0.01	308,517	0.48	308,517	0.48
	5391	G Street & Fourth Avenue	108	431	9.96	0.00	18.30	0.00	431	195	800	1,400	0	0	84,094	0.13	7,969	0.01	92,063	0.14	492,163	0.76
	5348	Fifth Avenue & Center Street	375	681	16.31	0.00	3.08	0.00	886	195	800	1,400	0	0	172,721	0.27	13,050	0.02	185,771	0.29	185,771	0.29
	2210	Broadway - North of E Street	714	1,382	18.86	4.37	9.58	1.85	1,751	195	800	1,400	0	0	341,348	0.53	21,207	0.03	362,555	0.56	362,555	0.56
	2903	Broadway & Park Way	29	251	1.23	0.00	0.43	0.00	217	195	800	1,400	0	0	42,364	0.07	991	0.00	43,355	0.07	405,910	0.63
	2650	Broadway & F Street	757	675	11.48	0.39	0.00	0.00	1,263	195	800	1,400	0	0	246,334	0.38	9,729	0.02	256,063	0.40	256,063	0.40
	3474	Broadway - South of H Street	153	73	16.50	0.15	4.85	0.00	208	195	800	1,400	0	0	40,511	0.06	13,405	0.02	53,917	0.08	53,917	0.08
	2982	G Street - West of Broadway	132	993	0.26	1.95	0.59	0.00	877	195	800	1,400	0	0	170,966	0.26	2,934	0.00	173,900	0.27	1,859,842	2.88
	2778	F Street & Woodlawn Avenue	196	794	12.46	15.85	0.00	0.00	792	195	800	1,400	0	0	154,343	0.24	32,153	0.05	186,495	0.29	186,495	0.29
	3142	G Street - West of Bay Boulevard	0	0	4.91	4.82	0.00	0.00	0	195	800	1,400	0	0	0	0.00	10,677	0.02	10,677	0.02	1,095,236	1.69
	3169	G Street - West of Bay Boulevard	0	0	0.01	106.78	0.00	16.80	0	195	800	1,400	0	0	0	0.00	148,090	0.23	148,090	0.23	2,205,105	3.41
Telegraph	3371	J Street & Hilltop (South)	501	0	12.31	0.00	33.76	9.29	501	195	800	1,400	0	0	97,695	0.15	9,847	0.02	107,542	0.17	2,774,216	4.29
	3450	J Strett & Corte Maria avenue	44	0	0.00	0.00	0.00	0.00	44	195	800	1,400	0	0	8,580	0.01	0	0.00	8,580	0.01	268,259	0.40
	3362	J Street & Hilltop (North)	86	0	0.00	0.00	0.00	0.00	86	195	800	1,400	0	0	16,770	0.03	0	0.00	16,770	0.03	2,541,308	3.93
	3514	J Street & First Avenue	33	0	0.00	0.00	8.03	0.00	33	195	800	1,400	0	0	6,435	0.01	0	0.00	6,435	0.01	2,547,741	3.94
	3570	J Stret & Alpine Avenue	160	38	14.87	0.20	0.78	0.00	189	195	800	1,400	0	0	36,758	0.06	12,179	0.02	48,937	0.08	2,854,938	4.42
	3922	J Street & Fourth Avenue	536	398	6.13	0.00	3.73	0.00	835	195	800	1,400	0	0	162,728	0.25	4,903	0.01	167,631	0.26	3,022,569	4.68
	4001	J Street & Fifth Avenue	465	142	16.51	0.00	11.92	0.00	572	195	800	1,400	0	0	111,443	0.17	13,205	0.02	124,647	0.19	3,147,216	4.87
	4097	J Street & J Esplanade	139	32	3.43	0.48	0.00	0.00	163	195	800	1,400	0	0	31,785	0.05	3,412	0.01	35,197	0.05	3,182,413	4.92
	3588	J Street - East of Elm Avenue	54	0	0.17	0.00	0.00	0.00	54	195	800	1,400	0	0	10,530	0.02	136	0.00	10,666	0.02	268,925	0.42
	3872	J Street & Garrett Avenue	83	0	0.00	0.00	0.00	0.00	83	195	800	1,400	0	0	16,185	0.03	4	0.00	16,189	0.03	285,114	0.44
	4074	J Street & Broadway	368	3	3.28	0.28	0.00	0.00	370	195	800	1,400	0	0	72,199	0.11	3,018	0.00	75,216	0.12	360,330	0.56
	5613	Naples Street & Hilltop Drive	2,324	118	2.38	0.51	98.60	8.16	2,413	195	800	1,400	0	0	470,438	0.73	2,617	0.00	473,054	0.73	473,054	0.73
	4512	Naples Street & Third Avenue	304	1,205	41.91	3.29	0.00	0.00	1,208	195	800	1,400	0	0	235,511	0.36	38,137	0.06	273,648	0.42	746,702	1.16
	4508	Moss Street & Broadway	567	1,257	29.71	13.29	143.89	5.86	1,510	195	800	1,400	0	0	294,401	0.46	42,374	0.07	336,775	0.52	336,775	0.52
	4567	Moss Street & Industrial Boulevard	152	0	10.51	6.49	8.16	0.00	152	195	800	1,400	0	0	29,640	0.05	17,494	0.03	47,134	0.07	1,130,612	1.75
	4328	Colorado Avenue & K Street	486	265	38.16	17.76	0.00	0.00	685	195	800	1,400	0	0	133,526	0.21	55,394	0.09	188,921	0.29	1,319,532	2.04
	4189	J Street & Colorado Avenue	114	0	0.00	46.09	0.00	0.00	114	195	800	1,400	0	0	22,230	0.03	64,532	0.10	86,762	0.13	4,588,707	7.10
	3294	G Street West of Bay Boulevard	0	0	0.00	27.11	0.00	0.00	0	195	800	1,400	0	0	0	0.00	37,949	0.06	37,949	0.06	37,949	0.06
	3578	Broadway - North of I Street	1,488	832	122.05	1.02	10.31	0.00	2,112	195	800	1,400	0	0	411,840	0.64	99,078	0.15	510,918	0.79	510,918	0.79
	4474	L Street & Bay Boulevard	53	0	122.62	0.17	0.00	0.49	53	195	800	1,400	0	0	10,335	0.02	98,324	0.15	108,659	0.17	108,659	0.17
	4233	Bay Boulevard & Marina Parkway	3	0	24.05	21.97	0.00	23.95	3	195	800	1,400	0	0	585	0.00	49,988	0.08	50,573	0.08	5,657,136	8.75

North-West Master Plan Model, Preferred Alternative

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (Low)	
Land Use	Generation Rate
Residential EDU	195 gpd/EDU
Commercial acre	800 gpd/ac
Industrial acre	1400 gpd/ac
Institutional acre	0 gpd/ac
Park acre	0 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Main Street	6279	Max Way - South of Rivera Court	903	89	11.05	2.19	56.11	30.96	970	195	800	1,400	0	0	189,101	0.29	11,903	0.02	201,004	0.31	201,004	0.31
	5883	Main Street & Hilltop Drive	279	0	1.03	1.17	2.00	4.95	279	195	800	1,400	0	0	54,405	0.08	2,464	0.00	56,869	0.09	257,873	0.40
	5879	Main Street - East of Reed Court	449	0	25.75	12.50	1.46	1.13	449	195	800	1,400	0	0	87,555	0.14	38,097	0.06	125,652	0.19	383,525	0.59
	4753	Second Avenue - North of Quintard Street	2,306	1,016	8.01	1.74	4.02	9.38	3,068	195	800	1,400	0	0	598,260	0.93	8,846	0.01	607,106	0.94	607,106	0.94
	4867	Quintard Street - West of Second Avenue	8	307	12.94	0.00	0.00	0.00	238	195	800	1,400	0	0	46,459	0.07	10,356	0.02	56,814	0.09	663,920	1.03
	5036	Third avenue & Tremont Street	678	202	2.85	0.09	11.45	4.25	830	195	800	1,400	0	0	161,753	0.25	2,416	0.00	164,168	0.25	919,062	1.42
	4940	Third Avenue & Orange Avenue	198	231	18.45	2.73	0.93	0.00	371	195	800	1,400	0	0	72,394	0.11	18,580	0.03	90,974	0.14	754,894	1.17
	5121	Main Street & Fourth Avenue	763	892	28.65	12.12	7.41	0.00	1,432	195	800	1,400	0	0	279,240	0.43	39,882	0.06	319,122	0.49	2,376,603	3.68
	5110	Main Street - West of Jacqua Street	4	0	18.59	10.71	0.00	0.00	4	195	800	1,400	0	0	780	0.00	29,866	0.05	30,646	0.05	2,407,249	3.72
	4595	Oxford street & Second avenue	1,816	14	3.17	0.00	41.10	19.57	1,827	195	800	1,400	0	0	356,168	0.55	2,540	0.00	358,707	0.56	358,707	0.56
	4831	Oxford Street & Third avenue	221	314	16.22	0.00	12.22	0.00	457	195	800	1,400	0	0	89,018	0.14	12,975	0.02	101,993	0.16	460,700	0.71
	4722	Oxford Street & Broadway	433	1,265	81.98	17.16	9.53	0.00	1,382	195	800	1,400	0	0	269,441	0.42	89,611	0.14	359,052	0.56	819,752	1.27
	4856	Industrial Boulevard & Palomar Street	249	252	7.08	33.60	1.70	0.00	438	195	800	1,400	0	0	85,410	0.13	52,697	0.08	138,107	0.21	957,858	1.48
	4952	Industrial Boulevard - North of Dorothy Street	106	320	54.10	32.92	0.00	0.00	346	195	800	1,400	0	0	67,470	0.10	89,372	0.14	156,842	0.24	1,114,700	1.72

Salt Creek Master Plan Model, Alternative 1

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (High)	
Land Use	Generation Rate
Residential EDU	215 gpd/EDU
Commercial acre	1500 gpd/ac
Industrial acre	1500 gpd/ac
Institutional acre	1500 gpd/ac
Park acre	500 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Salt Creek	450	Hunte Parkway - South of Proctor Valley Road	1,125	198	11.00	0.00	0.00	3.40	1,274	215	1,500	1,500	1,500	500	273,803	0.42	18,200	0.03	292,003	0.45	292,003	0.45
	443	Hunte Parkway - South of River Rock Road	525	0	0.00	0.00	3.00	27.55	525	215	1,500	1,500	1,500	500	112,875	0.17	17,975	0.03	130,850	0.20	422,853	0.65
	437	Hunte Parkway - North of Otay Lakes Road	408	0	1.00	0.00	39.40	18.00	408	215	1,500	1,500	1,500	500	87,720	0.14	65,660	0.10	153,380	0.24	576,233	0.89
	429	North Creekside Drive - East of Cactus Lane	3,090	1,608	253.10	0.00	34.90	53.70	4,296	215	1,500	1,500	1,500	500	923,640	1.43	455,360	0.70	1,379,000	2.13	1,955,233	3.03
	416	South Creekside Drive & Silver Springs Drive	395	96	0.00	0.00	21.08	0.00	467	215	1,500	1,500	1,500	500	100,405	0.16	29,512	0.05	129,917	0.20	2,085,150	3.23
	379	Olympic Parkwy - West of Hunte Parkway	0	581	30.90	0.00	12.90	0.00	436	215	1,500	1,500	1,500	500	93,686	0.14	64,410	0.10	158,096	0.24	2,243,246	3.47
	357	Salt Creek	663	0	0.00	0.00	0.00	3.80	663	215	1,500	1,500	1,500	500	142,545	0.22	1,900	0.00	144,445	0.22	2,387,691	3.69
	383	Salt Creek	0	0	149.56	0.00	0.00	0.00	0	215	1,500	1,500	1,500	500	0	0.00	224,340	0.35	224,340	0.35	224,340	4.04
	280	Salt Creek	333	1,308	20.50	0.00	78.00	12.90	1,314	215	1,500	1,500	1,500	500	282,510	0.44	146,400	0.23	428,910	0.66	3,040,941	4.71
	230	Otay River	0	0	0.00	0.00	269.20	0.00	0	215	1,500	1,500	1,500	500	0	0.00	376,880	0.58	376,880	0.58	3,417,821	5.29
	214	Otay River	2,865	3,890	66.69	0.00	655.62	81.19	5,783	215	1,500	1,500	1,500	500	1,243,238	1.92	1,058,498	1.64	2,301,736	3.56	5,719,556	8.85
	157	Otay River	2,063	5,052	222.27	0.00	123.04	179.56	5,852	215	1,500	1,500	1,500	500	1,258,191	1.95	595,441	0.92	1,853,632	2.87	7,573,188	11.72
	149	Otay River	1,554	1,262	21.02	558.30	111.80	13.50	2,501	215	1,500	1,500	1,500	500	537,707	0.83	1,032,250	1.60	528,371	0.82	8,101,559	12.53
	344	Poggi Canyon Model / Main Street																	3,339,755	2.15	3,339,755	14.68

Salt Creek Master Plan Model, Alternative 2

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (High)	
Land Use	Generation Rate
Residential EDU	215 gpd/EDU
Commercial acre	1500 gpd/ac
Industrial acre	1500 gpd/ac
Institutional acre	1500 gpd/ac
Park acre	500 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow (gpd)	Residential Flow (cfs)	Non-Residential Flow (gpd)	Non-Residential Flow (cfs)	Total Flow (gpd)	Total Flow (cfs)	Cumulative Flow (gpd)	Cumulative Flow (cfs)
Salt Creek	450	Hunte Parkway - South of Proctor Valley Road	1,125	198	11.00	0.00	0.00	3.40	1,274	215	1,500	1,500	1,500	500	273,803	0.42	18,200	0.03	292,003	0.45	292,003	0.45
	443	Hunte Parkway - South of River Rock Road	525	0	0.00	0.00	3.00	27.85	525	215	1,500	1,500	1,500	500	112,875	0.17	17,975	0.03	130,850	0.20	422,853	0.65
	437	Hunte Parkway - North of Otay Lakes Road	408	0	1.00	0.00	39.40	18.00	408	215	1,500	1,500	1,500	500	87,720	0.14	65,660	0.10	153,380	0.24	576,233	0.89
	429	North Creekside Drive - East of Cactus Lane	3,090	1,608	253.10	0.00	34.90	53.70	4,298	215	1,500	1,500	1,500	500	923,640	1.43	455,360	0.70	1,379,000	2.13	1,955,233	3.03
	416	South Creekside Drive & Silver Springs Drive	395	96	0.00	0.00	21.08	0.00	467	215	1,500	1,500	1,500	500	100,405	0.16	29,512	0.05	129,917	0.20	2,085,150	3.23
	379	Olympic Parkwy - West of Hunte Parkway	0	581	30.90	0.00	12.90	0.00	436	215	1,500	1,500	1,500	500	93,686	0.14	64,410	0.10	158,096	0.24	2,243,246	3.47
	357	Salt Creek	663	0	0.00	0.00	0.00	3.80	663	215	1,500	1,500	1,500	500	142,545	0.22	1,900	0.00	144,445	0.22	2,387,691	3.69
	383	Salt Creek	0	0	149.56	0.00	0.00	0.00	0	215	1,500	1,500	1,500	500	0	0.00	224,340	0.35	224,340	0.35	224,340	4.04
	280	Salt Creek	333	1,308	20.50	0.00	78.00	12.90	1,314	215	1,500	1,500	1,500	500	282,510	0.44	146,400	0.23	428,910	0.66	3,040,941	4.71
	230	Otay River	0	0	0.00	0.00	269.20	0.00	0	215	1,500	1,500	1,500	500	0	0.00	376,880	0.58	376,880	0.58	3,417,821	5.29
	214	Otay River	3,383	3,805	82.19	0.00	537.50	77.19	6,237	215	1,500	1,500	1,500	500	1,340,901	2.07	914,380	1.41	2,255,281	3.49	5,673,102	8.78
	157	Otay River	2,101	6,215	288.94	0.00	167.50	202.06	6,782	215	1,500	1,500	1,500	500	1,453,895	2.25	768,940	1.19	2,222,835	3.44	7,895,937	12.22
	149	Otay River	1,526	2,849	27.22	456.30	115.00	15.10	3,663	215	1,500	1,500	1,500	500	787,591	1.22	893,830	1.38	528,371	0.82	8,424,307	13.03
	344	Poggi Canyon Model / Main Street																	3,339,755	2.15	3,339,755	15.18

Salt Creek Master Plan Model, Alternative 3

Ultimate Buildout Manhole Loading

Calibrated Unit Generation Rates (High)	
Land Use	Generation Rate
Residential EDU	215 gpd/EDU
Commercial acre	1500 gpd/ac
Industrial acre	1500 gpd/ac
Institutional acre	1500 gpd/ac
Park acre	500 gpd/ac

Basin	Node	Location	Single Family Units	Multi Family Units	Commercial Area (acres)	Industrial Area (acres)	Institutional Area (acres)	Park Area (acres)	Res EDUs	Res flow gen rate (gpd/EDU)	Comm flow gen rate (gpd/acre)	Indust flow gen rate (gpd/acre)	Instit flow gen rate (gpd/acre)	Park flow gen rate (gpd/acre)	Residential Flow		Non-Residential Flow		Total Flow		Cumulative Flow	
															(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)	(gpd)	(cfs)
Salt Creek	450	Hunte Parkway - South of Proctor Valley Road	1,125	198	11.00	0.00	0.00	3.40	1,274	215	1,500	1,500	1,500	500	273,803	0.42	18,200	0.03	292,003	0.45	292,003	0.45
	443	Hunte Parkway - South of River Rock Road	525	0	0.00	0.00	3.00	27.55	525	215	1,500	1,500	1,500	500	112,875	0.17	17,975	0.03	130,850	0.20	422,853	0.65
	437	Hunte Parkway - North of Otay Lakes Road	408	0	1.00	0.00	39.40	18.00	408	215	1,500	1,500	1,500	500	87,720	0.14	65,660	0.10	153,380	0.24	576,233	0.89
	429	North Creekside Drive - East of Cactus Lane	3,090	1,608	253.10	0.00	34.90	53.70	4,296	215	1,500	1,500	1,500	500	923,640	1.43	455,360	0.70	1,379,000	2.13	1,955,233	3.03
	416	South Creekside Drive & Silver Springs Drive	395	96	0.00	0.00	21.08	0.00	467	215	1,500	1,500	1,500	500	100,405	0.16	29,512	0.05	129,917	0.20	2,085,150	3.23
	379	Olympic Parkwy - West of Hunte Parkway	0	581	30.90	0.00	12.90	0.00	436	215	1,500	1,500	1,500	500	93,685	0.14	64,410	0.10	158,096	0.24	2,243,246	3.47
	357	Salt Creek	663	0	0.00	0.00	0.00	3.80	663	215	1,500	1,500	1,500	500	142,545	0.22	1,900	0.00	144,445	0.22	2,387,691	3.69
	383	Salt Creek	0	0	149.56	0.00	0.00	0.00	0	215	1,500	1,500	1,500	500	0	0.00	224,340	0.35	224,340	0.35	224,340	4.04
	280	Salt Creek	333	1,308	20.50	0.00	78.00	12.90	1,314	215	1,500	1,500	1,500	500	282,510	0.44	148,400	0.23	428,910	0.66	3,040,941	4.71
	230	Otay River	0	0	0.00	0.00	269.20	0.00	0	215	1,500	1,500	1,500	500	0	0.00	376,880	0.58	376,880	0.58	3,417,821	5.29
	214	Otay River	1,430	2,337	390.41	0.00	127.30	38.13	3,183	215	1,500	1,500	1,500	500	684,291	1.06	782,900	1.21	1,467,191	2.27	4,885,012	7.56
	157	Otay River	2,493	4,455	214.07	0.00	0.00	184.70	5,834	215	1,500	1,500	1,500	500	1,254,375	1.94	413,455	0.64	1,667,830	2.58	6,552,842	10.14
	149	Otay River	1,983	1,135	27.82	559.60	0.00	15.10	2,835	215	1,500	1,500	1,500	500	609,463	0.94	888,680	1.37	528,371	0.82	7,081,212	10.96
	344	Poggi Canyon Model / Main Street																	3,339,755	2.15	3,339,755	13.10

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Sweetwater															
1043	1156	East H Street	1.00	350.32	5.74	0	0.21	0.83	0.00	0.21	0.00		8.70		
1156	1283	East H Street	1.00	350.29	1.15	0	0.32	0.83	0.00	0.32	0.00		10.66		
1283	1393	East H Street	1.00	351.05	2.75	0	0.25	0.83	0.00	0.45	0.00		8.26		
1393	1384	East H Street	1.00	279.65	0.45	0	0.45	0.83	0.00	0.45	0.00		10.94		
1384	1345	Hampton Court	1.00	231.82	1.30	0	0.33	0.96	0.00	0.33	0.00		14.42		
1345	1346	Hampton Court	1.00	403.84	1.24	0	0.33	0.96	0.00	0.43	0.00		8.66		
1346	1350	Hampton Court	1.00	401.10	0.50	0	0.43	0.96	0.00	0.44	0.00		8.97		
1350	1300	ROW	1.00	422.56	0.47	0	0.44	0.96	0.00	0.50	0.00		8.96		
1300	1258	ROW	1.00	365.85	0.55	0	0.50	0.96	0.00	0.50	0.00		13.96		
1258	1245	ROW	1.00	151.37	1.98	0	0.30	0.96	0.00	0.53	0.00		10.03		
1245	1246	ROW	1.00	382.55	0.53	0	0.53	0.96	0.00	0.53	0.00		5.85		
1246	1129	Redlands Place	1.00	397.75	3.38	0	0.26	0.96	0.00	0.40	0.00		13.14		
1129	1105	Redlands Place	1.00	272.79	1.00	0	0.40	0.96	0.00	0.40	0.00		11.61		
1105	1073	Redlands Place	1.00	241.77	2.13	0	0.29	0.96	0.00	0.32	0.00		8.91		
1073	1010	Redlands Place	1.00	241.31	1.53	0	0.32	0.96	0.00	0.37	0.00		9.13		
1010	948	Redlands Place	1.00	258.24	1.00	0	0.37	0.96	0.00	0.37	0.00		8.80		
948	830	Redlands Place	1.00	402.70	1.30	0	0.33	0.96	0.00	0.33	0.00		13.59		
830	736	ROW	1.00	509.55	19.17	0	0.17	0.96	0.00	0.37	0.00		5.71		
736	688	ROW	1.00	332.55	1.01	0	0.37	1.07	0.00	0.39	0.00		12.21		
688	633	ROW	1.00	406.43	0.89	0	0.39	1.07	0.00	0.39	0.00		8.86		
633	580	ROW	1.00	400.62	0.90	0	0.39	1.07	0.00	0.55	0.00		5.98		
580	520	ROW	1.00	404.67	0.49	0	0.55	1.07	0.00	0.55	0.00		25.90		
520	510	ROW	1.00	112.35	1.78	0	0.32	1.07	0.00	0.36	0.00		17.03		
510	507	ROW	1.00	46.58	1.87	0	0.36	1.07	0.00	0.36	0.00		8.79		
507	486	ROW	1.00	163.85	4.99	0	0.25	1.07	0.00	0.37	0.00		4.87		
486	475	ROW	1.00	65.52	1.07	0	0.37	1.07	0.00	0.51	0.00		6.63		
475	474	Country Vista Lane	1.00	108.27	0.52	0	0.51	1.31	0.00	0.56	0.00		6.49		
474	467	Country Vista Lane	1.00	317.07	0.50	0	0.56	1.31	0.00	0.56	0.00		9.20		
467	464	Country Vista Lane	1.00	195.32	0.89	0	0.45	1.31	0.00	0.45	0.00		15.06		
464	463	Country Vista Lane	1.00	91.00	1.07	0	0.41	1.31	0.00	0.46	0.00		13.91		
463	409	Country Vista Lane	1.00	373.73	1.06	0	0.46	1.31	0.00	0.46	0.00		11.32		
409	437	Sandy Creek Drive	1.00	221.36	1.99	0	0.35	1.31	0.00	0.36	0.00		21.55		
437	*430*	*Sandy Creek Drive*	*1.00*	*63.82*	*1.96*	*0*	*0.36*	*1.31*	*0.00*	*0.36*	*0.00*		*17.45*		
430	445	Acacia Avenue	1.00	120.09	2.31	0	0.33	1.31	0.00	0.33	0.00		17.62		
445	455	Acacia Avenue	1.00	114.12	12.65	0	0.22	1.31	0.00	0.22	0.00		22.71		
455	435	Acacia Avenue	1.00	332.75	2.15	0	0.34	1.31	0.00	0.35	0.00		7.89		
435	411	Acacia Avenue	1.00	351.27	2.59	0	0.35	1.31	0.00	0.35	0.00		7.30		
411	383	Acacia Avenue	1.00	351.02	3.99	0	0.29	1.31	0.00	0.39	0.00		8.21		
383	363	Acacia Avenue	1.00	373.47	2.01	0	0.39	1.31	0.00	0.39	0.00		8.41		
363	349	Acacia Avenue	1.00	334.33	3.73	0	0.30	1.31	0.00	0.42	0.00		8.70		
349	347	Acacia Avenue	1.00	55.08	0.98	0	0.42	1.31	0.00	0.42	0.00		12.85		
347	329	Acacia Avenue	1.00	398.92	1.02	0	0.42	1.31	0.00	0.43	0.00		13.00		
329	317	Acacia Avenue	1.00	420.70	1.01	0	0.43	1.31	0.00	0.43	0.00		10.43		
317	285	Acacia Avenue	1.00	404.54	1.87	0	0.40	1.31	0.00	0.40	0.00		6.36		
285	249	Acacia Avenue	1.00	382.24	3.61	0	0.30	1.31	0.00	0.36	0.00		6.52		
249	222	Acacia Avenue	1.00	364.73	2.90	0	0.36	1.31	0.00	0.36	0.00		7.50		
222	191	Acacia Avenue	1.00	263.74	6.53	0	0.26	1.31	0.00	0.28	0.00		6.66		
191	157	Acacia Avenue	1.00	352.62	4.32	0	0.28	1.31	0.00	0.33	0.00		6.55		
157	111	Acacia Avenue	1.00	355.88	2.64	0	0.33	1.31	0.00	0.33	0.00		7.45		
111	105	Acacia Avenue	1.00	110.87	3.04	0	0.31	1.31	0.00	0.31	0.00		6.77		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
105	91	Acacia Avenue	1.00	247.45	3.04	0	0.31	1.31	0.00	0.37	0.00		8.28		
91	64	Acacia Avenue	1.00	347.91	1.51	0	0.37	1.31	0.00	0.38	0.00		11.60		
64	49	Acacia Avenue	1.00	350.37	1.50	0	0.38	1.31	0.00	0.40	0.00		11.14		
49	41	Acacia Avenue	1.00	287.28	1.21	0	0.40	1.31	0.00	0.40	0.00		10.40		
41	38	Acacia Avenue	1.00	62.85	1.21	0	0.40	1.31	0.00	0.48	0.00		10.97		
869	7302	Otay Lakes Road	0.67	224.70	3.06	0	0.15	0.23	0.00	0.22	0.00		3.45		
7302	7303	Otay Lakes Road	0.67	399.29	3.11	0	0.15	0.23	0.00	0.23	0.00		5.32		
7303	791	Otay Lakes Road	0.67	103.18	2.90	0	0.15	0.23	0.00	0.27	0.00		4.72		
791	740	Otay Lakes Road	0.67	248.05	2.99	0	0.18	0.34	0.00	0.29	0.00		3.68		
740	709	Otay Lakes Road	0.67	273.69	2.59	0	0.19	0.34	0.00	0.29	0.00		6.08		
709	693	Otay Lakes Road	0.67	126.02	2.62	0	0.19	0.34	0.00	0.30	0.00		5.18		
693	628	Otay Lakes Road	0.67	401.22	2.09	0	0.20	0.34	0.00	0.33	0.00		5.47		
628	618	Otay Lakes Road	0.67	399.33	1.50	0	0.22	0.34	0.00	0.37	0.00		4.85		
618	615	Otay Lakes Road	0.67	345.35	1.49	0	0.24	0.34	0.00	0.37	0.00		5.83		
615	603	Otay Lakes Road	0.67	398.38	2.81	0	0.19	0.34	0.00	0.28	0.00		6.04		
603	595	Otay Lakes Road	0.67	401.19	3.19	0	0.18	0.34	0.00	0.28	0.00		6.25		
595	568	Otay Lakes Road	0.67	399.25	4.57	0	0.18	0.34	0.00	0.26	0.00		6.05		
568	482	Otay Lakes Road	0.67	401.98	6.27	0	0.15	0.34	0.00	0.25	0.00		6.33		
482	422	Otay Lakes Road	0.67	398.36	4.52	0	0.16	0.34	0.00	0.26	0.00		8.52		
422	364	Otay Lakes Road	0.67	400.88	3.82	0	0.18	0.34	0.00	0.26	0.00		6.50		
364	324	Otay Lakes Road	0.67	403.23	4.22	0	0.17	0.34	0.00	0.53	0.00		6.81		
324	278	Otay Lakes Road	0.67	375.13	1.20	0	0.35	0.52	0.00	0.53	0.00		12.65		
278	225	Otay Lakes Road	0.67	394.96	3.80	0	0.21	0.52	0.00	0.38	0.00		6.30		
225	207	Otay Lakes Road	0.67	172.09	2.70	0	0.25	0.61	0.00	0.38	0.00		5.28		
207	193	Otay Lakes Road	0.67	100.21	2.69	0	0.26	0.61	0.00	0.38	0.00		4.91		
193	175	Otay Lakes Road	0.67	126.50	2.74	0	0.25	0.61	0.00	0.38	0.00		4.62		
175	160	Otay Lakes Road	0.67	169.63	2.71	0	0.25	0.61	0.00	0.39	0.00		6.08		
160	146	Otay Lakes Road	0.67	61.89	2.62	0	0.26	0.61	0.00	0.39	0.00		6.66		
146	140	Otay Lakes Road	0.67	56.44	17.74	0	0.16	0.61	0.00	0.23	0.00		7.38		
2042	2006	Rice Canyon	0.83	316.96	2.55	0	0.26	0.74	0.00	0.31	0.00		14.19		
2006	2005	Rice Canyon	0.83	238.00	6.93	0	0.20	0.74	0.00	0.24	0.00		5.29		
2005	1989	Rice Canyon	0.83	396.13	0.99	0	0.33	0.73	0.00	0.40	0.00		5.06		
1989	1977	Rice Canyon	0.83	397.44	2.03	0	0.28	0.73	0.00	0.33	0.00		4.73		
1977	1976	Rice Canyon	0.83	292.91	0.98	0	0.33	0.73	0.00	0.40	0.00		4.75		
1976	1984	Rice Canyon	0.83	400.28	2.48	0	0.26	0.73	0.00	0.31	0.00		5.80		
1984	2017	Rice Canyon	0.83	382.65	1.49	0	0.32	0.83	0.00	0.38	0.00		7.58		
2017	2020	Rice Canyon	1.00	248.38	1.05	0	0.32	0.83	0.00	0.32	0.00		3.62		
2020	2051	Rice Canyon	1.00	244.81	1.09	0	0.32	0.83	0.00	0.32	0.00		4.23		
2051	2077	Rice Canyon	1.00	178.90	5.20	0	0.22	0.83	0.00	0.31	0.00		12.40		
2077	2085	Rice Canyon	1.00	242.25	0.39	0	0.45	0.83	0.00	0.45	0.00		5.82		
2085	2129	Rice Canyon	1.00	283.72	2.09	0	0.27	0.83	0.00	0.27	0.00		8.35		
2129	2159	Rice Canyon	1.00	393.92	1.51	0	0.29	0.83	0.00	0.29	0.00		3.51		
2159	2165	Rice Canyon	1.00	113.75	4.25	0	0.23	0.83	0.00	0.38	0.00		5.53		
2165	2171	Rice Canyon	1.00	400.28	0.42	0	0.48	1.06	0.00	0.61	0.00		8.61		
2171	2115	Rice Canyon	1.00	337.55	0.42	0	0.61	1.06	0.00	0.61	0.00		6.76		
2115	2114	Rice Canyon	1.00	248.06	4.03	0	0.26	1.06	0.00	0.28	0.00		6.74		
2114	2121	Rice Canyon	1.00	399.27	2.85	0	0.28	1.06	0.00	0.49	0.00		4.32		
2121	2145	Rice Canyon	1.00	103.33	0.47	0	0.49	1.06	0.00	0.49	0.00		6.68		
2145	2146	Rice Canyon	1.00	201.73	0.82	0	0.39	1.06	0.00	0.40	0.00		4.47		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2146	2157	Rice Canyon	1.00	380.08	1.21	0	0.40	1.06	0.00	0.40	0.00		1.02		
2157	2190	Rice Canyon	1.00	399.50	2.52	0	0.29	1.06	0.00	0.32	0.00		5.74		
2190	2208	Rice Canyon	1.00	251.21	1.83	0	0.32	1.06	0.00	0.32	0.00		15.78		
2208	2238	Rice Canyon	1.00	188.99	1.83	0	0.32	1.06	0.00	0.32	0.00		9.47		
2238	2262	Rice Canyon	1.00	181.21	1.83	0	0.32	1.06	0.00	0.34	0.00		4.22		
2262	2291	Rice Canyon	1.00	191.08	1.83	0	0.34	1.23	0.00	0.35	0.00		9.72		
2291	7420	Rice Canyon	1.00	106.79	1.64	0	0.35	1.23	0.00	0.35	0.00		5.70		
7420	2391	Rice Canyon	1.00	339.48	1.17	0	0.39	1.23	0.00	0.39	0.00		15.21		
2391	2475	Rice Canyon	1.00	341.52	2.75	0	0.31	1.23	0.00	0.33	0.00		6.79		
2475	2506	Rice Canyon	1.00	228.02	1.29	0	0.38	1.23	0.00	0.38	0.00		8.27		
2506	2537	Rice Canyon	1.00	160.46	3.48	0	0.29	1.23	0.00	0.40	0.00		13.92		
2537	2576	Rice Canyon	1.00	212.85	1.07	0	0.40	1.23	0.00	0.41	0.00		15.60		
2576	2618	Rice Canyon	1.00	278.44	0.98	0	0.41	1.23	0.00	0.41	0.00		18.87		
2618	2636	Rice Canyon	1.00	125.53	11.90	0	0.21	1.23	0.00	0.53	0.00		10.79		
7609	7604	Camino Del Sol	0.67	92.74	1.13	0	0.27	0.44	0.00	0.41	0.00		8.34		
7604	7603	Camino Del Sol	0.67	145.54	1.13	0	0.27	0.44	0.00	0.49	0.00		9.98		
7603	7608	Camino Del Sol	0.67	332.81	1.23	0	0.33	0.44	0.00	0.49	0.00		9.65		
7608	7602	Camino Del Sol	0.67	132.47	5.17	0	0.18	0.44	0.00	0.34	0.00		14.67		
7602	7601	Camino Del Sol	0.67	391.89	2.04	0	0.23	0.44	0.00	0.39	0.00		10.95		
7601	7600	Camino Del Sol	0.67	341.65	1.31	0	0.26	0.44	0.00	0.39	0.00		6.53		
7600	7588	Camino Del Sol	0.67	336.25	1.38	0	0.25	0.44	0.00	0.38	0.00		6.06		
7588	7587	Camino Del Sol	0.67	393.97	1.38	0	0.26	0.44	0.00	0.38	0.00		5.90		
7587	7586	Camino Del Sol	0.67	66.25	1.40	0	0.25	0.44	0.00	0.38	0.00		8.79		
7586	7577	Camino Del Sol	0.67	72.32	1.41	0	0.25	0.44	0.00	0.38	0.00		8.13		
7577	7576	Camino Del Sol	0.67	172.52	1.40	0	0.26	0.44	0.00	0.38	0.00		7.28		
7576	7585	Camino Del Sol	0.67	143.99	1.50	0	0.25	0.44	0.00	0.38	0.00		12.99		
7585	7582	Camino Del Sol	0.67	98.28	1.56	0	0.25	0.44	0.00	0.37	0.00		9.53		
7582	7581	Camino Del Sol	0.67	252.52	1.49	0	0.25	0.44	0.00	0.38	0.00		7.38		
7581	7572	Camino Del Sol	0.67	346.76	1.49	0	0.25	0.44	0.00	0.38	0.00		4.58		
7572	7578	Camino Del Sol	0.67	91.30	1.49	0	0.25	0.44	0.00	0.38	0.00		7.15		
7578	7579	Camino Del Sol	0.67	171.60	1.49	0	0.25	0.44	0.00	0.38	0.00		6.63		
7579	2874	East H Street	0.67	114.64	1.61	0	0.24	0.44	0.00	0.43	0.00		5.82		
2874	2867	East H Street	0.67	402.11	3.79	0	0.29	0.73	0.00	0.43	0.00		6.71		
2867	2857	East H Street	1.00	403.12	4.17	0	0.21	0.73	0.00	0.40	0.00		7.70		
2857	2847	East H Street	1.00	279.68	1.01	0	0.40	0.73	0.00	0.40	0.00		8.25		
2847	2829	East H Street	1.00	194.85	8.45	0	0.18	0.73	0.00	0.21	0.00		11.18		
2829	2794	East H Street	1.00	325.60	5.00	0	0.21	0.73	0.00	0.21	0.00		8.39		
2794	2736	East H Street	1.00	398.59	5.67	0	0.20	0.73	0.00	0.22	0.00		7.94		
2736	2678	East H Street	1.00	394.00	3.94	0	0.22	0.73	0.00	0.29	0.00		8.40		
2678	2644	East H Street	1.00	341.13	3.34	0	0.29	0.92	0.00	0.29	0.00		8.27		
2644	2636	East H Street	1.00	365.97	6.70	0	0.21	0.92	0.00	0.53	0.00		9.12		
2636	2637	East H Street	1.00	107.00	1.21	0	0.53	2.15	0.00	0.56	0.00		20.16		
2637	2639	East H Street	1.00	402.02	1.19	0	0.56	2.28	0.00	0.56	0.00		17.85		
2639	2640	East H Street	1.00	200.16	1.33	0	0.54	2.28	0.00	0.54	0.00		15.49		
2640	2630	East H Street	1.00	225.18	1.38	0	0.53	2.28	0.00	0.54	0.00		16.17		
2630	2615	East H Street	1.00	399.21	1.30	0	0.54	2.28	0.00	0.54	0.00		17.26		
2615	2592	East H Street	1.00	396.35	1.36	0	0.53	2.28	0.00	0.67	0.00		18.47		
2592	2586	East H Street	1.25	247.18	0.40	0	0.67	2.28	0.00	0.54	0.00		19.73		
2586	2580	East H Street	1.25	249.57	0.40	0	0.67	2.28	0.00	0.54	0.00		17.72		

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2580	2563	East H Street	1.25	194.48	0.40	0	0.67	2.28	0.00	0.54	0.00		16.71		
2563	2549	East H Street	1.25	307.98	0.40	0	0.67	2.28	0.00	0.64	0.00		15.49		
2549	2517	East H Street	1.25	326.53	0.40	0	0.81	2.89	0.00	0.64	0.00		13.58		
2517	2486	East H Street	1.25	256.35	0.50	0	0.72	2.89	0.00	0.58	0.00		11.48		
2486	2449	East H Street	1.25	211.76	0.50	0	0.72	2.89	0.00	0.58	0.00		14.26		
2449	2414	East H Street	1.25	237.62	0.50	0	0.72	2.89	0.00	0.62	0.00		17.32		
2414	2355	East H Street	1.25	326.27	0.40	0	0.78	2.89	0.00	0.67	0.00		20.83		
2355	2330	East H Street	1.25	359.67	0.40	0	0.84	3.23	0.00	0.67	0.00		21.69		
2330	2331	East H Street	1.25	358.53	0.40	0	0.84	3.23	0.00	0.67	0.00		23.13		
2331	2333	East H Street	1.25	91.08	21.94	0	0.28	3.23	0.00	0.54	0.00		21.93		
2333	2371	East H Street	1.25	294.09	1.67	0	0.68	3.23	0.00	0.54	0.00		37.71		
2371	2336	East H Street	1.25	476.32	8.19	0	0.35	3.23	0.00	0.44	0.00		42.66		
2336	2219	ROW	1.25	445.37	1.49	0	0.55	3.23	0.00	0.45	0.00		8.76		
2219	2107	ROW	1.25	411.79	1.46	0	0.56	3.23	0.00	0.45	0.00		6.79		
2107	1967	ROW	1.25	404.99	1.48	0	0.56	3.23	0.00	0.45	0.00		8.39		
1967	1806	ROW	1.25	353.37	1.70	0	0.56	3.23	0.00	0.44	0.00		7.39		
1806	7661	ROW	1.50	408.37	1.47	0	0.51	3.23	0.00	0.51	0.00		9.44		
7661	1490	ROW	1.50	335.72	0.54	0	0.77	3.23	0.00	0.51	0.00		9.68		
1490	7647	ROW	1.50	294.32	1.44	0	0.52	3.23	0.00	0.41	0.00		10.23		
7647	7892	Plaza Bonita Road	1.50	23.59	1.27	0	0.61	3.23	0.00	0.57	0.00		9.89		
7892	7643	Plaza Bonita Road	1.50	281.46	0.30	0	0.85	3.23	0.00	0.57	0.00		10.20		
7643	1211	Plaza Bonita Road	1.50	339.52	0.50	0	0.69	3.23	0.00	0.46	0.00		11.58		
1211	1165	Plaza Bonita Road	1.50	400.44	0.50	0	0.69	3.23	0.00	0.48	0.00		16.41		
1165	1102	Plaza Bonita Road	1.50	397.62	0.50	0	0.71	3.23	0.00	0.48	0.00		9.75		
1102	1074	Plaza Bonita Road	1.50	226.00	0.67	0	0.66	3.43	0.00	0.50	0.00		9.79		
1074	1054	Plaza Bonita Road	1.67	85.42	0.43	0	0.75	3.72	0.00	0.56	0.00		9.18		
1054	963	Plaza Bonita Road	1.67	351.69	0.20	0	0.97	3.72	0.00	0.58	0.00		8.29		
963	923	Plaza Bonita Road	1.67	142.12	0.42	0	0.76	3.72	0.00	0.46	0.00		8.41		
1080	1110	C Street	1.00	299.28	0.23	0	0.63	1.25	0.00	0.64	0.00		6.37		
1110	1119	C Street	1.00	134.50	0.23	0	0.64	1.25	0.00	0.69	0.00		6.36		
1119	1116	Fifth Avenue	1.00	9.72	0.21	0	0.69	1.25	0.00	0.69	0.00		6.31		
1116	1001	Fifth Avenue	1.00	322.06	0.23	0	0.64	1.25	0.00	0.64	0.00		16.38		
1001	914	Fifth Avenue	1.00	304.63	0.23	0	0.64	1.25	0.00	0.64	0.00		5.62		
914	883	Fifth Avenue	1.00	106.10	0.24	0	0.63	1.25	0.00	0.64	0.00		9.33		
883	836	Fifth Avenue	1.00	154.96	0.23	0	0.64	1.25	0.00	0.64	0.00		12.07		
836	848	Fifth Avenue	1.00	55.36	0.23	0	0.60	1.25	0.00	0.60	0.00		9.96		
G Street															
5359	5362	G Street	1.00	72.19	2.44	0	0.33	0.73	0.00	0.38	0.00		12.65		
5362	5371	G Street	1.00	374.07	0.53	0	0.38	0.72	0.00	0.38	0.00		13.87		
5371	5381	G Street	1.00	375.37	0.68	0	0.34	0.72	0.00	0.34	0.00		15.28		
5381	5385	G Street	1.00	373.56	0.68	0	0.34	0.72	0.00	0.34	0.00		14.83		
5385	5388	G Street	1.00	148.46	2.18	0	0.25	0.72	0.00	0.40	0.00		14.50		
5291	5290	Third Avenue	1.00	169.13	2.23	0	0.22	0.56	0.00	0.38	0.00		9.32		
5290	5308	Third Avenue	1.00	274.90	0.28	0	0.38	0.56	0.00	0.39	0.00		12.14		
5308	5316	Alley	1.00	358.29	0.26	0	0.39	0.56	0.00	0.39	0.00		11.89		
5316	5301	Alley	1.00	192.55	0.30	0	0.37	0.56	0.00	0.37	0.00		15.73		
5301	5299	Alley	1.00	127.53	0.30	0	0.36	0.56	0.00	0.41	0.00		10.67		
5299	5300	Alley	1.00	162.94	0.32	0	0.41	0.56	0.00	0.86	0.00		10.15	162.9	

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Max Surcharge Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5300	5298	Center Street	1.00	34.55	0.26	0	0.86	0.56	0.00	0.94	0.00		10.07	34.5	
5298	5314	Center Street	1.00	629.88	0.02	0	0.94	0.80	0.00	0.94	0.00		10.08	629.9	
5314	5369	Fourth Avenue	1.00	677.01	0.17	0	0.53	0.80	0.00	0.59	0.00		13.04		
5369	5388	Fourth Avenue	1.00	323.55	0.16	0	0.59	0.80	0.00	0.59	0.00		13.67		
5388	5397	G Street	1.25	451.43	1.14	0	0.40	1.51	0.00	0.32	0.00		16.58		
5397	5402	G Street	1.25	440.33	1.17	0	0.40	1.51	0.00	0.32	0.00		15.13		
5402	5405	G Street	1.25	417.09	1.20	0	0.39	1.51	0.00	0.40	0.00		14.29		
5405	5406	G Street	1.25	11.03	1.18	0	0.50	1.51	0.00	0.40	0.00		13.44		
5348	5372	Fifth Avenue	1.00	333.40	0.12	0	0.37	0.34	0.00	0.37	0.00		12.05		
5372	5396	Fifth Avenue	1.00	327.52	0.12	0	0.36	0.34	0.00	0.41	0.00		8.45		
5396	5406	Fifth Avenue	1.00	324.58	0.12	0	0.41	0.34	0.00	0.41	0.00		10.60		
5406	5416	G Street	1.25	438.23	1.33	0	0.42	1.86	0.00	0.40	0.00		13.50		
5416	5420	G Street	1.25	438.23	0.70	0	0.50	1.86	0.00	0.59	0.00		14.76		
5420	2970	G Street	1.25	423.91	0.42	0	0.73	1.86	0.00	0.59	0.00		13.61		
2210	2310	Broadway	1.00	337.33	0.16	0	0.83	1.43	0.00	0.83	0.00		16.68		
2310	2415	Broadway	1.00	330.97	0.16	0	0.83	1.43	0.00	0.84	0.00		16.52		
2415	2502	Broadway	1.00	331.27	0.16	0	0.84	1.43	0.00	0.88	0.00		15.64	331.3	
2502	2571	Broadway	1.00	335.66	0.16	0	0.88	1.42	0.00	0.88	0.00		15.53	335.7	
2571	2570	Broadway	1.00	57.40	0.16	0	0.68	1.42	0.00	0.68	0.00		14.96		
2570	2643	Broadway	1.25	313.85	0.09	0	0.82	1.42	0.00	0.68	0.00		15.41		
2643	2653	Broadway	1.25	30.28	0.07	0	0.85	1.42	0.00	0.68	0.00		14.31		
2653	2743	Broadway	1.25	315.21	0.07	0	0.85	1.42	0.00	0.68	0.00		14.19		
2743	2828	Broadway	1.25	330.92	0.08	0	0.84	1.42	0.00	0.67	0.00		12.97		
2828	2903	Broadway	1.25	341.24	0.08	0	0.84	1.42	0.00	0.68	0.00		12.23		
2903	2970	Broadway	1.25	312.59	0.08	0	0.85	1.54	0.00	0.68	0.00		11.94		
2970	2981	G Street	1.50	50.70	7.73	0	0.35	3.39	0.00	0.31	0.00		11.60		
2650	2770	Broadway	0.67	421.31	0.12	0	6.99	0.97	0.00	10.48	17.20	6.3	0.01	421.3	421.3
2770	2869	Broadway	0.67	442.47	0.13	0	5.05	0.96	0.00	7.58	16.89	4.4	1.95	442.5	442.5
2869	2901	Broadway	0.67	132.87	0.17	0	2.99	0.96	0.00	4.48	15.46	2.3	4.01	132.9	132.9
2901	2978	Broadway	0.67	332.62	0.17	0	2.39	0.96	0.00	3.59	15.32	1.7	4.61	332.6	332.6
2978	2980	Broadway	0.67	3.28	0.30	0	0.86	0.96	0.00	1.30	7.92	0.2	6.14	3.3	3.3
2980	2981	Broadway	0.67	4.00	0.25	0	0.70	0.96	0.00	1.05	2.61	0.0	6.30	4.0	4.0
2981	2982	G Street	1.50	11.70	9.66	0	0.47	4.35	0.00	0.51	0.00		15.55		
5359	5361	G Street	0.83	43.13	0.28	0	0.33	0.38	0.00	0.40	0.00		12.65		
5361	5363	G Street	0.83	151.13	0.30	0	0.32	0.38	0.00	0.39	0.00		12.78		
5363	5373	G Street	0.83	487.28	0.30	0	0.32	0.38	0.00	0.44	0.00		13.24		
5373	5391	G Street	0.83	661.94	0.30	0	0.36	0.38	0.00	0.44	0.00		12.36		
5391	5395	G Street	1.00	214.84	0.64	0	0.35	0.75	0.00	0.35	0.00		15.64		
5395	5398	G Street	1.00	445.24	0.64	0	0.35	0.75	0.00	0.35	0.00		14.08		
5398	5408	G Street	1.00	659.69	0.64	0	0.35	0.75	0.00	0.35	0.00		10.86		
5408	5418	G Street	1.00	660.28	0.56	0	0.36	0.75	0.00	0.36	0.00		12.94		
5418	2976	G Street	1.00	626.19	0.55	0	0.36	0.75	0.00	0.50	0.00		13.78		

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3474	3426	Broadway	1.00	141.09	0.35	0	0.27	0.33	0.00	0.31	0.00		6.73		
3426	3283	Broadway	1.00	415.63	0.20	0	0.31	0.33	0.00	0.31	0.00		6.69		
3283	3234	Broadway	1.00	125.52	0.20	0	0.31	0.33	0.00	0.31	0.00		6.69		
3234	3208	Broadway	1.00	103.11	0.20	0	0.31	0.33	0.00	0.31	0.00		6.69		
3208	3207	Broadway	1.00	95.27	0.20	0	0.31	0.33	0.00	0.31	0.00		6.69		
3207	5512	Broadway	1.00	199.11	0.20	0	0.31	0.33	0.00	0.31	0.00		6.69		
5512	3097	Broadway	1.00	125.20	0.20	0	0.31	0.33	0.00	0.34	0.00		6.69		
3097	3057	Broadway	1.00	167.38	0.20	0	0.34	0.33	0.00	0.34	0.00		6.66		
3057	2976	Broadway	1.00	335.18	0.42	0	0.23	0.33	0.00	0.29	0.00		6.77		
2976	2975	G Street	1.00	13.84	0.29	0	0.50	1.08	0.00	0.50	0.00		11.54		
2975	2984	G Street	1.50	50.32	7.81	0	0.20	1.08	0.00	0.16	0.00		11.77		
2984	2982	G Street	1.50	14.31	7.69	0	0.24	1.08	0.00	0.51	0.00		15.86		
2982	NewMH12	G Street	1.50	616.96	0.56	0	0.76	4.51	0.00	0.61	0.00		16.26		
NewMH12	NewMH4	G Street	2.25	1365.09	0.50	0	0.96	8.27	0.00	0.52	0.00		16.64		
2778	2799	F Street	1.00	261.18	0.34	0	0.71	1.77	0.00	0.78	0.00		6.29		
2799	2838	Private Road	1.00	160.57	0.28	0	0.78	1.77	0.00	0.82	0.00		16.47		
2838	2837	Private Road	1.00	74.28	0.24	0	0.82	1.77	0.00	0.82	0.00		16.88		
2837	2913	Private Road	1.00	377.26	0.25	0	0.82	1.77	0.00	0.87	0.00		17.06	377.3	
2913	3001	Private Road	1.00	391.22	0.24	0	0.87	1.77	0.00	0.87	0.00		12.95	391.2	
3001	3094	Private Road	1.00	374.40	0.32	0	0.71	1.77	0.00	0.94	0.00		13.05	374.4	
3094	NewMH4	G Street	1.25	5.00	2.06	0	1.07	1.77	0.00	0.93	0.00		3.28	5.0	
NewMH4	NewMH3	G Street	2.25	262.09	0.50	0	1.16	10.03	0.00	0.52	0.00		12.24		
NewMH3	3119	G Street	1.50	51.11	0.84	0	0.81	5.27	0.00	0.63	0.00		12.41		
3119	3142	G Street	1.50	401.23	0.42	0	1.05	5.27	0.00	0.70	0.00		13.44		
3142	NewMH2	G Street	1.50	58.24	0.68	0	0.89	5.30	0.00	0.71	0.00		8.85		
NewMH3	N590	G Street	1.75	60.23	0.50	0	0.81	4.76	0.00	0.52	0.00		12.41		
N590	N593	G Street	1.75	389.32	0.36	0	1.01	4.76	0.00	0.58	0.00		13.16		
N593	NewMH2	G Street	1.75	61.03	1.33	0	0.61	4.76	0.00	0.61	0.00		9.91		
NewMH2	NewMH1B	G Street	2.25	256.00	0.50	0	1.07	10.06	0.00	0.51	0.00		6.96		
NewMH1B	3169	G Street	2.25	20.33	0.50	0	1.14	10.06	0.00	0.51	0.00		4.87		
3169	NewMH1A	G Street	2.25	50.21	0.25	0	1.29	10.46	0.00	0.57	0.00		5.07		
NewMH1A	BeginVault	G Street	2.00	8.00	0.22	0	1.25	10.46	0.00	0.62	0.00		5.04		
BeginVault	3170	G Street	2.00	11.66	0.26	0	1.07	10.46	0.00	0.53	0.00		5.24		
3170	3172	G Street	2.00	45.00	3.29	0	0.76	10.46	0.00	0.38	0.00		3.47		
3172	3148	G Street	2.00	92.49	7.89	0	0.55	10.46	0.00	0.58	0.00		3.68		
Telegraph															
MH34	MH35	J Street	1.75	367.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.11		
MH35	3371	J Street	1.75	378.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.47		
3371	3425	J Street	0.67	439.74	1.89	0	0.27	0.59	0.00	0.48	0.00		6.73		
3425	3450	J Street	0.67	203.46	1.14	0	0.32	0.59	0.00	0.52	0.00		6.68		
3450	3473	J Street	0.67	237.31	1.13	0	0.34	0.61	0.00	0.52	0.00		6.66		
3473	3519	J Street	0.67	440.73	1.57	0	0.30	0.61	0.00	0.45	0.00		6.70		

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3519	3527	J Street	0.67	42.48	1.65	0	0.29	0.61	0.00	0.66	0.00		6.71		
3371	3362	J Street	1.75	7.81	191.32	0	0.27	5.99	0.00	0.58	0.00		6.73		
3362	3420	J Street	1.75	451.55	0.37	0	1.01	6.03	0.00	0.58	0.00		19.84		
3420	3472	J Street	1.75	447.18	0.36	0	1.02	6.03	0.00	0.58	0.00		14.48		
3472	3514	J Street	1.75	424.63	0.42	0	1.00	6.03	0.00	0.57	0.00		11.11		
3514	3527	J Street	1.50	42.94	2.47	0	0.63	6.05	0.00	0.50	0.00		6.95		
3527	3570	J Street	1.50	398.57	1.59	0	0.75	6.66	0.00	0.55	0.00		7.39		
3570	3604	J Street	1.50	441.16	1.30	0	0.82	6.98	0.00	0.55	0.00		6.65		
3604	3660	J Street	1.50	440.17	1.28	0	0.83	6.98	0.00	0.55	0.00		7.87		
3660	3698	J Street	1.50	335.37	1.28	0	0.83	6.98	0.00	0.55	0.00		7.51		
3698	3733	J Street	1.50	325.18	1.28	0	0.83	6.98	0.00	0.56	0.00		7.31		
3733	3766	J Street	1.50	325.54	1.28	0	0.83	6.98	0.00	0.56	0.00		7.48		
3766	3812	J Street	1.50	316.28	1.34	0	0.82	6.98	0.00	0.54	0.00		7.16		
3812	3819	J Street	1.50	51.98	0.88	0	0.93	6.98	0.00	0.62	0.00		7.03		
3819	3843	J Street	1.50	263.19	0.88	0	0.93	6.98	0.00	0.62	0.00		6.91		
3843	3862	J Street	1.50	344.55	1.74	0	0.76	6.98	0.00	0.51	0.00		6.57		
3862	3875	J Street	1.50	153.38	1.80	0	0.75	6.98	0.00	0.50	0.00		8.57		
3875	3888	J Street	1.50	184.41	1.79	0	0.75	6.98	0.00	0.55	0.00		9.29		
3888	3893	J Street	1.50	73.53	1.75	0	0.75	6.98	0.00	0.58	0.00		10.14		
3893	3922	J Street	1.50	273.71	1.75	0	0.79	6.98	0.00	0.58	0.00		9.48		
3922	3938	J Street	1.49	330.13	1.50	0	0.84	7.42	0.00	0.57	0.00		7.12		
3938	3961	J Street	1.50	325.45	1.52	0	0.81	7.42	0.00	0.57	0.00		5.60		
3961	3980	J Street	1.50	333.96	1.48	0	0.84	7.42	0.00	0.57	0.00		6.28		
3980	4001	J Street	1.50	330.80	1.50	0	0.82	7.42	0.00	0.58	0.00		7.25		
4001	4025	J Street	1.50	345.46	1.42	0	0.87	7.94	0.00	0.58	0.00		8.90		
4025	4038	J Street	1.50	350.44	1.40	0	0.87	7.94	0.00	0.68	0.00		8.80		
4038	4066	J Street	1.50	329.81	1.48	0	1.02	7.94	0.00	0.68	0.00		9.04		
4066	4075	J Street	1.50	276.13	4.18	0	0.63	7.94	0.00	0.60	0.00		8.57		
4075	4080	J Street	1.50	72.18	1.25	0	0.90	7.94	0.00	0.60	0.00		14.84		
4080	4097	J Street	1.50	317.96	1.25	0	0.90	7.94	0.00	0.61	0.00		14.49		
4097	4114	J Street	1.50	231.57	1.49	0	0.91	8.03	0.00	0.61	0.00		12.96		
4114	4121	J Street	1.75	82.58	1.51	0	0.78	8.03	0.00	0.45	0.00		13.54		
4121	4131	J Street	1.75	145.94	1.51	0	0.78	8.03	0.00	0.51	0.00		13.89		
4131	4139	J Street	1.75	107.68	1.00	0	0.88	8.03	0.00	0.54	0.00		14.39		
4139	4153	J Street	1.75	220.46	1.01	0	0.93	8.03	0.00	0.54	0.00		14.11		
4153	4158	J Street	1.75	33.60	1.01	0	0.88	8.03	0.00	0.59	0.00		13.69		
4158	4172	J Street	1.75	256.85	1.00	0	1.02	8.03	0.00	0.59	0.00		13.49		
4172	4187	J Street	1.75	259.33	0.99	0	0.89	8.03	0.00	0.89	0.00		13.10	259.3	
3588	3603	J Street	0.67	221.13	1.18	0	0.07	0.03	0.00	0.11	0.00		6.93		
3603	3658	J Street	0.67	440.29	1.24	0	0.07	0.03	0.00	0.11	0.00		8.00		
3658	3692	J Street	0.67	334.34	1.34	0	0.06	0.03	0.00	0.11	0.00		7.47		
3692	3731	J Street	0.67	327.04	1.26	0	0.07	0.03	0.00	0.11	0.00		7.43		
3731	3764	J Street	0.67	325.10	1.29	0	0.06	0.03	0.00	0.11	0.00		7.57		
3764	3810	J Street	0.67	315.94	1.34	0	0.07	0.03	0.00	0.11	0.00		7.26		
3810	3842	J Street	0.83	324.89	1.16	0	0.06	0.03	0.00	0.08	0.00		11.01		
3842	3845	J Street	0.83	84.08	1.03	0	0.07	0.03	0.00	0.08	0.00		6.76		
3845	3872	J Street	0.83	403.37	1.31	0	0.06	0.03	0.00	0.12	0.00		6.64		
3872	3891	J Street	0.83	257.42	1.55	0	0.10	0.07	0.00	0.12	0.00		7.90		

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3891	3919	J Street	0.83	274.03	2.69	0	0.08	0.07	0.00	0.11	0.00		7.42		
3919	3947	J Street	1.00	440.97	1.60	0	0.09	0.07	0.00	0.11	0.00		7.28		
3947	3973	J Street	1.00	429.70	1.53	0	0.11	0.09	0.00	0.11	0.00		6.82		
3973	3999	J Street	1.00	450.77	1.38	0	0.10	0.08	0.00	0.13	0.00		8.40		
3999	4021	J Street	1.00	330.00	0.54	0	0.13	0.08	0.00	0.13	0.00		9.08		
4021	4036	J Street	1.00	329.25	1.58	0	0.10	0.08	0.00	0.10	0.00		6.40		
4036	4052	J Street	1.00	240.11	2.83	0	0.08	0.08	0.00	0.09	0.00		7.12		
4052	4070	J Street	1.00	235.21	1.85	0	0.09	0.08	0.00	0.09	0.00		9.41		
4070	4074	J Street	1.00	165.40	2.21	0	0.08	0.08	0.00	0.17	0.00		9.77		
4074	4079	J Street	1.00	58.19	1.72	0	0.17	0.29	0.00	0.17	0.00		11.63		
4079	4095	J Street	1.00	317.23	2.11	0	0.16	0.29	0.00	0.19	0.00		11.34		
4095	4096	J Street	1.00	15.22	2.10	0	0.19	0.29	0.00	0.21	0.00		11.79		
4096	4113	J Street	1.00	223.82	0.89	0	0.21	0.29	0.00	0.21	0.00		11.79		
4113	4119	J Street	1.00	90.37	1.11	0	0.19	0.29	0.00	0.19	0.00		10.81		
4119	4129	J Street	1.00	140.10	1.03	0	0.19	0.29	0.00	0.28	0.00		10.81		
4129	4130	J Street	1.00	5.77	1.04	0	0.28	0.29	0.00	0.28	0.00		10.72		
4130	4134	J Street	1.00	107.68	0.62	0	0.22	0.29	0.00	0.22	0.00		10.78		
4134	4150	J Street	1.00	215.92	0.62	0	0.22	0.29	0.00	0.22	0.00		10.05		
4150	4151	J Street	1.00	4.67	4.28	0	0.21	0.29	0.00	0.24	0.00		8.59		
4151	4155	J Street	1.00	33.60	0.39	0	0.24	0.29	0.00	0.29	0.00		8.46		
4155	4171	J Street	1.00	257.27	0.38	0	0.29	0.29	0.00	0.29	0.00		8.11		
4171	4186	J Street	1.00	259.36	1.23	0	0.18	0.29	0.00	0.18	0.00		5.92		
4186	4187	J Street	1.00	3.80	172.37	0	0.09	0.00	0.00	0.00	0.00		5.91		
4187	4189	J Street	1.75	13.31	0.90	0	1.55	8.30	0.00	0.92	0.00		11.50	13.3	
5613	5614	Naples Street	1.00	341.50	0.81	0	0.45	1.32	0.00	0.59	0.00		16.25		
5614	5615	Naples Street	1.00	333.92	0.31	0	0.59	1.31	0.00	0.62	0.00		15.21		
5615	5718	Naples Street	1.00	313.81	0.31	0	0.62	1.31	0.00	0.62	0.00		14.87		
5718	5719	Naples Street	1.00	267.98	0.55	0	0.55	1.31	0.00	0.55	0.00		12.38		
5719	4460	Naples Street	1.00	66.53	0.93	0	0.43	1.31	0.00	0.55	0.00		10.47		
4460	4459	Naples Street	1.00	443.85	0.55	0	0.55	1.31	0.00	0.55	0.00		10.37		
4459	4466	Naples Street	1.00	434.36	0.95	0	0.43	1.31	0.00	0.43	0.00		7.97		
4466	4475	Naples Street	1.00	191.36	0.95	0	0.43	1.31	0.00	0.46	0.00		7.97		
4475	4483	Naples Street	1.00	252.01	0.95	0	0.46	1.31	0.00	0.46	0.00		7.81		
4483	4493	Naples Street	1.00	444.13	1.34	0	0.39	1.31	0.00	0.39	0.00		7.71		
4493	4497	Naples Street	1.00	214.81	1.34	0	0.39	1.31	0.00	0.39	0.00		8.41		
4497	4501	Naples Street	1.00	220.03	1.34	0	0.39	1.31	0.00	0.39	0.00		7.76		
4501	4512	Naples Street	1.00	444.17	1.34	0	0.39	1.31	0.00	0.43	0.00		7.11		
4512	4526	Naples Street	1.00	440.25	2.45	0	0.43	2.10	0.00	0.50	0.00		10.57		
4526	4533	Naples Street	1.00	200.22	1.42	0	0.50	2.10	0.00	0.50	0.00		10.50		
4533	4542	Naples Street	1.00	246.39	1.42	0	0.50	2.10	0.00	0.50	0.00		10.95		
4542	4548	Naples Street	1.00	159.15	1.44	0	0.50	2.10	0.00	0.53	0.00		11.50		
4548	4555	Naples Street	1.00	277.90	1.44	0	0.53	2.10	0.00	0.53	0.00		11.47		
4555	4565	Naples Street	1.00	440.76	1.97	0	0.45	2.10	0.00	0.48	0.00		11.55		
4565	4578	Naples Street	1.00	440.88	1.61	0	0.48	2.10	0.00	0.51	0.00		14.52		
4578	4581	Naples Street	1.00	97.28	1.61	0	0.51	2.10	0.00	0.51	0.00		13.67		
4581	4590	Naples Street	1.00	342.85	2.53	0	0.42	2.10	0.00	0.54	0.00		13.58		
4590	4600	Naples Street	1.00	351.12	1.08	0	0.54	2.10	0.00	0.61	0.00		11.86		
4600	4604	Naples Street	1.00	89.42	0.72	0	0.61	2.10	0.00	0.61	0.00		11.99		
4604	4610	Naples Street	1.00	219.27	0.72	0	0.61	2.10	0.00	0.63	0.00		12.05		

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4610	4616	Naples Street	1.00	230.66	0.72	0	0.63	2.10	0.00	0.63	0.00		12.19		
4616	4626	Naples Street	1.00	410.65	0.86	0	0.58	2.10	0.00	0.58	0.00		12.42		
4626	4639	Naples Street	1.00	378.78	0.86	0	0.58	2.10	0.00	0.58	0.00		14.42		
4639	4644	Naples Street	1.00	315.77	0.86	0	0.58	2.10	0.00	0.58	0.00		13.02		
4644	4655	Naples Street	1.00	344.66	0.86	0	0.58	2.10	0.00	0.58	0.00		13.82		
4655	4662	Naples Street	1.00	345.73	0.86	0	0.58	2.10	0.00	0.61	0.00		14.42		
4662	4669	Naples Street	1.00	353.33	0.88	0	0.61	2.10	0.00	0.61	0.00		13.99		
4669	4673	Naples Street	1.25	264.22	0.79	0	0.52	2.10	0.00	0.55	0.00		14.88		
4673	4642	Industrial Boulevard	1.25	443.44	0.31	0	0.69	2.10	0.00	0.56	0.00		13.31		
4642	4607	Industrial Boulevard	1.25	443.70	0.30	0	0.69	2.10	0.00	0.56	0.00		16.31		
4607	4567	Industrial Boulevard	1.25	437.53	0.30	0	0.69	2.10	0.00	0.76	0.00		14.31		
4508	4519	Moss Street	0.67	310.70	0.39	0	3.37	0.97	0.00	5.05	4.78	2.7	20.61	310.7	310.7
4519	4529	Moss Street	0.67	324.82	0.41	0	2.67	0.97	0.00	4.00	4.46	2.0	17.01	324.8	324.8
4529	4536	Moss Street	0.67	322.72	0.40	0	2.00	0.97	0.00	3.00	4.63	1.3	16.02	322.7	322.7
4536	4551	Moss Street	0.67	344.99	0.41	0	1.26	0.97	0.00	1.88	4.29	0.6	14.54	345.0	345.0
4551	4562	Moss Street	0.83	362.06	0.44	0	0.58	0.97	0.00	0.70	0.00		10.13		
4562	4567	Moss Street	0.83	269.04	1.09	0	0.38	0.97	0.00	1.13	0.00		11.42	269.0	269.0
4567	4525	Industrial Boulevard	1.25	454.27	0.29	0	0.95	3.19	0.00	0.76	0.00		13.79		
4525	4492	Industrial Boulevard	1.25	427.21	0.31	0	0.92	3.19	0.00	0.74	0.00		11.68		
4492	4455	Industrial Boulevard	1.25	443.21	0.30	0	0.93	3.19	0.00	0.75	0.00		11.87		
4455	4409	Industrial Boulevard	1.25	443.56	0.30	0	0.93	3.19	0.00	0.77	0.00		10.67		
4409	4369	Industrial Boulevard	1.25	446.18	0.30	0	0.96	3.19	0.00	0.77	0.00		10.94		
4369	4337	Industrial Boulevard	1.25	434.42	0.36	0	0.86	3.19	0.00	0.91	0.00		9.14	434.4	
4337	4328	K Street	1.25	262.09	0.28	0	1.13	3.16	0.00	1.06	0.00		12.99	262.1	262.1
4328	4277	Colorado Avenue	1.25	497.59	0.30	0	1.33	3.65	0.00	1.08	1.02	0.1	10.33	497.6	497.6
4277	4243	Colorado Avenue	1.30	443.41	0.32	0	1.35	3.63	0.00	1.28	0.66	0.1	10.21	443.4	443.4
4243	4189	Colorado Avenue	1.25	372.58	0.28	0	1.66	3.63	0.00	1.33	3.28	0.4	8.51	372.6	372.6
4189	4207	J Street	2.00	281.50	0.32	0	1.60	12.17	0.00	0.80	0.00		11.57		
4207	4209	J Street	2.00	221.53	0.78	0	1.15	12.17	0.00	0.57	0.00		11.85		
4209	4233	J Street	2.00	414.75	0.91	0	1.09	12.17	0.00	0.54	0.00		5.91		
3294	3295	Bay Boulevard	1.50	306.37	0.18	0	0.18	0.11	0.00	0.12	0.00		5.80		
3295	3400	Bay Boulevard	1.50	310.84	0.26	0	0.15	0.12	0.00	0.12	0.00		4.88		
3400	3518	Bay Boulevard	1.50	344.16	0.22	0	0.17	0.11	0.00	0.12	0.00		6.16		
3518	3621	Bay Boulevard	1.50	328.42	0.29	0	0.17	0.12	0.00	0.12	0.00		6.43		
3621	3735	Bay Boulevard	1.50	329.51	0.29	0	0.17	0.11	0.00	0.12	0.00		5.88		
3735	3846	Bay Boulevard	1.75	330.83	0.17	0	0.19	0.12	0.00	0.42	0.00		5.83		
3578	3617	Between H Street & I Street	1.00	493.24	1.00	0	0.44	1.41	0.00	0.44	0.00		12.19		
3617	3639	Between H Street & I Street	1.00	121.91	1.03	0	0.43	1.41	0.00	0.44	0.00		9.98		
3639	3649	Between H Street & I Street	1.00	129.02	0.96	0	0.44	1.41	0.00	0.44	0.00		6.56		
3649	3676	Between H Street & I Street	1.00	259.96	1.00	0	0.44	1.41	0.00	0.44	0.00		6.56		
3676	3708	Between H Street & I Street	1.00	275.55	1.00	0	0.44	1.41	0.00	0.48	0.00		6.56		
3708	3736	Between H Street & I Street	1.00	262.60	0.98	0	0.48	1.41	0.00	0.48	0.00		6.52		
3736	3763	Between H Street & I Street	1.00	254.15	1.64	0	0.38	1.40	0.00	0.52	0.00		6.62		
3763	3818	Between H Street & I Street	1.25	389.87	0.37	0	0.52	1.40	0.00	0.45	0.00		6.48		
3818	3846	Between H Street & I Street	1.25	389.24	0.35	0	0.56	1.40	0.00	0.45	0.00		6.57		

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3846	3927	Bay Boulevard	1.75	330.47	0.06	0	0.73	1.50	0.00	0.42	0.00		5.34		
3927	3987	Bay Boulevard	1.75	331.07	0.12	0	0.64	1.50	0.00	0.37	0.00		6.13		
3987	4048	Bay Boulevard	1.75	331.46	0.18	0	0.56	1.50	0.00	0.44	0.00		6.60		
4048	4110	Bay Boulevard	1.75	333.27	0.05	0	0.77	1.50	0.00	0.44	0.00		8.48		
4110	4181	Bay Boulevard	1.75	331.70	0.06	0	0.74	1.50	0.00	0.42	0.00		8.68		
4181	4230	Bay Boulevard	1.75	326.05	0.16	0	0.63	1.50	0.00	0.36	0.00		7.48		
4230	4233	Bay Boulevard	1.00	24.84	6.04	0	0.29	1.50	0.00	0.98	0.00		10.71	24.8	
4474	4432	Bay Boulevard	1.00	432.31	0.30	0	0.27	0.32	0.00	0.27	0.00		10.15		
4432	4391	Bay Boulevard	1.00	447.94	0.30	0	0.27	0.32	0.00	0.27	0.00		8.95		
4391	4351	Bay Boulevard	1.00	434.79	0.30	0	0.27	0.32	0.00	0.27	0.00		6.79		
4351	4308	Bay Boulevard	1.00	439.89	0.30	0	0.27	0.32	0.00	0.30	0.00		6.09		
4308	4270	Bay Boulevard	1.00	418.02	0.22	0	0.30	0.32	0.00	0.30	0.00		5.38		
4270	4259	Bay Boulevard	1.00	170.70	0.22	0	0.29	0.32	0.00	0.33	0.00		4.31		
4259	4233	Bay Boulevard	1.00	295.92	0.22	0	0.33	0.32	0.00	0.33	0.00		4.65		
4233	BeginCV2	J Street	2.50	40.95	0.22	0	1.48	14.10	0.00	0.59	0.00		10.02		
BeginCV2	EndCV2	J Street	2.50	11.67	0.26	0	1.44	14.10	0.00	0.57	0.00		9.65		
EndCV2	4223	J Street	2.50	6.02	1.33	0	1.33	14.10	0.00	0.53	0.00		9.79		
4223	4219	J Street	2.50	11.67	0.26	0	1.44	14.10	0.00	0.57	0.00		9.65		
Main Street															
6279	4892	ROW	1.00	556.68	0.43	0	0.36	0.63	0.00	0.36	0.00		4.51		
4892	4891	ROW	1.00	234.97	0.48	0	0.34	0.63	0.00	0.35	0.00		12.55		
4891	4930	ROW	1.00	383.50	0.43	0	0.35	0.63	0.00	0.35	0.00		7.35		
4930	6304	ROW	1.00	250.68	0.49	0	0.35	0.63	0.00	0.35	0.00		9.46		
6304	6303	Loma Lane	0.67	243.38	1.16	0	0.33	0.63	0.00	0.49	0.00		15.10		
6303	6301	Loma Lane	0.67	346.39	1.17	0	0.33	0.63	0.00	0.69	0.00		13.24		
6301	6299	Loma Lane	0.67	28.52	0.42	0	0.46	0.63	0.00	0.69	0.00		3.10		
6299	6300	Orange Avenue	0.67	133.50	0.40	0	0.46	0.63	0.00	0.69	0.00		3.05		
6300	6309	Orange Avenue	0.67	98.25	0.41	0	0.46	0.63	0.00	0.69	0.00		2.81		
6309	6306	Orange Avenue	0.67	135.04	0.41	0	0.46	0.63	0.00	0.69	0.00		2.64		
6306	6331	Jade Court	0.67	401.01	0.40	0	0.46	0.63	0.00	0.69	0.00		6.41		
6331	6326	Jade Court	0.67	399.40	0.40	0	0.46	0.63	0.00	0.69	0.00		3.34		
6326	6327	Jade Court	0.67	300.88	0.40	0	0.46	0.63	0.00	0.87	0.00		12.14	300.9	
6327	6328	Jade Court	0.67	233.39	0.39	0	0.58	0.63	0.00	0.87	0.00		11.62	233.4	
6328	5874	Tourmaline Street	0.67	398.02	1.50	0	0.30	0.63	0.00	0.46	0.00		6.60		
5874	5872	Tourmaline Street	0.67	141.52	1.50	0	0.30	0.63	0.00	0.46	0.00		6.70		
5872	5873	Hilltop Drive	0.67	281.51	10.00	0	0.18	0.63	0.00	0.38	0.00		6.82		
5873	5883	Hilltop Drive	0.67	350.64	2.99	0	0.25	0.63	0.00	0.38	0.00		17.29		
5883	5882	Main Street	0.83	301.03	1.32	0	0.32	0.78	0.00	0.38	0.00		10.11		
5882	5881	Main Street	0.83	379.03	1.33	0	0.32	0.78	0.00	0.53	0.00		7.08		
5881	5880	Main Street	0.83	345.03	0.43	0	0.44	0.78	0.00	0.54	0.00		7.01		
5880	5879	Main Street	0.83	122.04	0.40	0	0.45	0.78	0.00	0.83	0.00		6.49		
5879	5890	Main Street	0.83	218.51	0.40	0	0.69	1.26	0.00	0.83	0.00		6.74		
5890	5889	Main Street	0.83	334.04	0.99	0	0.49	1.26	0.00	0.58	0.00		6.82		
5889	5888	Main Street	0.83	340.53	1.35	0	0.41	1.26	0.00	0.54	0.00		7.21		
5888	5887	Main Street	0.83	334.03	1.15	0	0.45	1.26	0.00	0.54	0.00		7.78		
5887	5886	Main Street	0.83	318.02	1.31	0	0.42	1.26	0.00	0.55	0.00		6.64		
5886	5130	Main Street	0.83	333.02	1.17	0	0.46	1.26	0.00	0.55	0.00		7.76		
5130	5129	Main Street	0.83	332.02	1.52	0	0.45	1.26	0.00	0.86	0.00		6.65	332.0	

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5129	5127	Main Street	0.83	327.04	0.97	0	0.71	1.37	0.00	3.47	0.00		6.43	327.0	327.0
5127	5126	Main Street	0.83	326.03	0.36	0	2.89	1.26	0.00	3.64	3.02	2.1	4.42	326.0	326.0
5126	5125	Main Street	0.83	344.04	0.21	0	3.03	1.26	0.00	3.64	6.62	2.2	3.45	344.0	344.0
5125	5124	Main Street	0.83	314.52	0.56	0	2.66	1.27	0.00	4.11	3.07	1.8	4.53	314.5	314.5
4753	4795	Second Avenue	1.25	352.98	0.67	0	0.52	1.69	0.00	0.49	0.00		6.48		
4795	4842	Second Avenue	1.25	319.60	0.67	0	0.61	1.68	0.00	0.52	0.00		6.39		
4842	4849	Quintard Street	1.25	198.09	0.67	0	0.65	1.69	0.00	0.84	0.00		14.32		
4849	4859	Quintard Street	1.25	225.76	0.95	0	1.05	1.66	0.00	2.45	0.00		11.29	225.8	225.8
4859	4864	Quintard Street	1.25	117.13	0.78	0	3.07	1.66	0.00	3.12	6.38	1.8	8.41	117.1	117.1
4864	4866	Quintard Street	1.25	103.53	0.78	0	3.90	1.66	0.00	3.72	12.32	2.7	8.31	103.5	103.5
4866	4897	Private Road	0.67	284.27	0.67	0	4.65	1.66	0.00	6.97	15.62	4.0	8.22	284.3	284.3
4867	4894	Private Road	0.67	275.92	0.67	0	0.18	0.16	0.00	0.44	0.00		12.66		
4894	4897	Private Road	1.00	12.15	0.66	Note (1)	0.29	-0.40	0.00	0.00	0.00		12.91		
4897	4948	Private Road	1.00	576.78	0.67	0	0.46	1.26	0.00	0.49	0.00		12.82		
4948	4945	Orange Avenue	1.00	371.38	0.52	0	0.49	1.26	0.00	0.60	0.00		13.64		
4945	4941	Orange Avenue	1.00	370.35	0.28	0	0.60	1.26	0.00	0.62	0.00		7.67		
4941	4957	Third Avenue	1.00	357.77	0.26	0	0.62	1.26	0.00	0.64	0.00		8.47		
4957	4979	Third Avenue	1.00	350.41	0.23	0	0.64	1.26	0.00	0.70	0.00		9.57		
4979	4999	Third Avenue	1.00	355.77	0.22	0	0.70	1.26	0.00	0.70	0.00		14.11		
4999	5036	Third Avenue	1.00	394.53	0.41	0	0.53	1.26	0.00	0.72	0.00		15.06		
5036	5035	Tremont Street	1.00	8.52	0.35	0	0.72	1.66	0.00	0.72	0.00		8.66		
4894	4924	Private Road	1.00	298.50	0.68	0	0.29	0.55	0.00	0.29	0.00		12.91		
4924	4946	Private Road	1.00	265.80	0.67	0	0.29	0.55	0.00	0.35	0.00		13.39		
4946	4947	Private Road	1.00	15.51	0.64	0	0.35	0.55	0.00	0.35	0.00		11.62		
4947	4944	Orange Avenue	1.00	343.19	0.52	0	0.31	0.55	0.00	0.37	0.00		13.76		
4944	4939	Orange Avenue	1.00	383.45	0.27	0	0.37	0.55	0.00	0.63	0.00		7.50		
4939	4940	Orange Avenue	1.00	7.35	0.27	0	0.63	0.55	0.00	0.64	0.00		8.29		
4940	4958	Third Avenue	1.00	367.92	0.26	0	0.64	1.33	0.00	0.67	0.00		8.30		
4958	4980	Third Avenue	1.00	350.76	0.23	0	0.67	1.33	0.00	0.71	0.00		9.42		
4980	5000	Third Avenue	1.00	355.90	0.22	0	0.71	1.33	0.00	0.71	0.00		13.98		
5000	5035	Third Avenue	1.00	384.04	0.41	0	0.59	1.33	0.00	0.59	0.00		14.88		
5035	5034	Tremont Street	1.00	296.01	1.21	0	0.62	2.99	0.00	0.71	0.00		8.62		
5034	5039	Tremont Street	1.00	15.70	1.21	0	0.71	1.65	0.00	0.85	0.00		6.42	15.7	
5039	5037	Tremont Street	1.00	347.54	0.25	0	0.85	1.65	0.00	0.85	0.00		6.17	347.5	
5034	5032	Tremont Street	1.00	361.00	0.25	0	0.71	1.34	0.00	0.71	0.00		6.42		
5032	5037	Tremont Street	1.00	9.70	1.62	0	0.52	1.34	0.00	0.55	0.00		8.21		
5037	5053	Fresno Avenue	1.00	371.40	2.07	0	0.55	2.99	0.00	0.67	0.00		8.34		
5053	5088	Fresno Avenue	1.00	370.88	1.33	0	0.67	3.11	0.00	2.50	0.00		7.52	370.9	370.9
5088	5092	Fresno Avenue	1.00	8.63	1.28	0	2.50	1.69	0.00	2.55	2.66	1.5	7.09	8.6	8.6
5092	5123	Fresno Avenue	1.00	378.13	0.40	0	2.55	1.68	0.00	3.23	2.72	1.5	7.07	378.1	378.1

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5088	5095	Fresno Avenue	1.00	11.60	0.36	0	2.50	1.32	0.00	2.51	2.66	1.5	7.09	11.6	11.6
5095	5124	Fresno Avenue	1.00	378.00	0.36	0	2.51	1.29	0.00	3.40	2.67	1.5	7.05	378.0	378.0
5124	5123	Main Street	0.83	8.55	2.11	0	3.43	2.52	0.00	4.11	9.96	2.6	5.51	8.5	8.5
5123	5122	Main Street	1.26	362.51	0.31	0	3.23	4.20	0.00	2.56	3.87	2.0	4.89	362.5	362.5
5122	5121	Main Street	1.25	350.51	0.92	0	2.90	4.20	0.00	3.76	3.41	1.7	6.33	350.5	350.5
5121	5119	Main Street	1.25	310.51	0.21	0	4.70	5.13	0.00	3.76	14.08	3.5	5.77	310.5	310.5
5119	5118	Main Street	1.25	345.01	0.28	0	3.45	5.13	0.00	2.76	8.89	2.2	5.67	345.0	345.0
5118	5117	Main Street	1.25	415.51	0.40	0	2.28	5.14	0.00	1.82	4.31	1.0	5.80	415.5	415.5
5117	5116	Main Street	1.25	411.51	0.52	0	1.45	5.17	0.00	1.16	2.16	0.2	6.30	411.5	411.5
5116	5115	Main Street	1.25	400.51	0.66	0	1.20	5.21	0.00	1.27	0.00		6.87	400.5	400.5
5115	5114	Main Street	1.25	400.04	0.88	0	1.59	5.08	0.00	2.13	1.23	0.3	6.93	400.0	400.0
5114	5113	Main Street	1.25	402.05	0.88	0	2.66	5.08	0.00	3.02	2.44	1.4	5.38	402.0	402.0
5113	5112	Main Street	1.25	398.05	0.87	0	3.77	5.08	0.00	3.88	3.61	2.5	4.60	398.1	398.1
5112	5111	Main Street	1.25	400.07	0.60	0	4.85	5.08	0.00	3.90	4.94	3.6	3.68	400.1	400.1
5111	5110	Main Street	1.25	277.03	0.36	0	4.87	5.08	0.00	3.90	9.23	3.6	3.55	277.0	277.0
5110	5109	Main Street	1.25	109.51	0.36	0	4.21	5.24	0.00	3.37	12.36	3.0	4.48	109.5	109.5
5109	5107	Main Street	1.25	392.56	0.32	0	3.90	5.24	0.00	3.12	13.78	2.7	4.90	392.6	392.6
5107	5106	Main Street	1.25	399.54	0.72	0	2.62	5.24	0.00	2.35	3.88	1.4	5.42	399.5	399.5
4595	4608	Oxford Street	1.00	440.65	0.42	0	0.46	1.00	0.00	0.46	0.00		15.59		
4608	4620	Oxford Street	1.00	440.97	0.42	0	0.46	1.00	0.00	0.46	0.00		10.94		
4620	4631	Oxford Street	1.00	440.61	0.42	0	0.46	1.00	0.00	0.47	0.00		12.04		
4631	4640	Oxford Street	1.00	344.36	0.67	0	0.47	1.31	0.00	0.47	0.00		8.13		
4640	4646	Oxford Street	1.00	332.82	0.66	0	0.47	1.31	0.00	0.59	0.00		7.93		
4646	4651	Oxford Street	1.00	111.17	0.32	0	0.59	1.31	0.00	0.64	0.00		7.61		
4651	4657	Oxford Street	1.00	209.71	0.33	0	0.64	1.31	0.00	0.64	0.00		7.57		
4657	4664	Oxford Street	1.00	326.32	0.83	0	0.44	1.31	0.00	0.69	0.00		7.81		
4664	4670	Oxford Street	1.00	270.98	0.25	0	0.69	1.31	0.00	0.69	0.00		6.17		
4670	4674	Oxford Street	1.00	372.42	0.53	0	0.50	1.31	0.00	0.65	0.00		8.25		
4674	4679	Oxford Street	1.00	324.74	0.53	0	0.65	1.31	0.00	0.65	0.00		10.06		
4679	4683	Oxford Street	1.00	351.98	4.20	0	0.29	1.31	0.00	0.30	0.00		2.44		
4683	4688	Oxford Street	1.00	342.82	3.64	0	0.30	1.31	0.00	0.50	0.00		6.71		
4688	4701	Oxford Street	1.00	325.73	0.54	0	0.50	1.31	0.00	0.59	0.00		8.00		
4701	4712	Oxford Street	1.00	310.47	0.59	0	0.59	1.31	0.00	0.59	0.00		6.28		
4712	4722	Oxford Street	1.00	314.61	2.60	0	0.33	1.31	0.00	1.01	0.00		5.78	314.6	314.6
4722	4726	Oxford Street	1.00	69.26	0.27	0	1.01	2.48	0.00	1.01	0.31	0.0	11.27	69.3	69.3
4726	4733	Oxford Street	1.00	400.65	0.51	0	0.86	2.48	0.00	1.17	0.00		11.61	400.6	400.6
4733	4749	Oxford Street	1.00	374.44	0.45	0	1.17	2.48	0.00	1.17	2.47	0.2	7.85	374.4	374.4
4749	4763	Oxford Street	1.00	321.58	0.95	0	0.66	2.48	0.00	0.66	0.00		8.05		
4763	4765	Oxford Street	1.00	53.60	1.32	0	0.59	2.48	0.00	0.99	0.00		8.86	53.6	
4765	4778	Oxford Street	1.25	407.41	0.16	0	0.99	2.48	0.00	0.79	0.00		8.78		
4778	4794	Oxford Street	1.25	363.32	0.15	0	0.99	2.48	0.00	0.79	0.00		5.12		
4794	4823	Industrial Boulevard	1.25	203.34	0.17	0	0.94	2.48	0.00	0.75	0.00		6.77		
4823	4828	Industrial Boulevard	1.25	35.08	0.17	0	0.63	1.17	0.00	0.52	0.00		9.52		
4828	4856	Industrial Boulevard	1.25	213.80	0.16	0	0.65	1.17	0.00	0.68	0.00		9.86		
4856	4893	Industrial Boulevard	1.25	350.19	0.17	0	0.86	2.15	0.00	0.70	0.00		11.80		
4893	4933	Industrial Boulevard	1.25	378.64	0.16	0	0.88	2.15	0.00	0.70	0.00		13.97		
4933	4950	Industrial Boulevard	1.25	334.24	0.16	0	0.86	2.15	0.00	0.70	0.00		14.09		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4950	4970	Industrial Boulevard	1.25	326.12	0.16	0	0.87	2.15	0.00	0.70	0.00		12.95		
4970	4987	Industrial Boulevard	1.25	329.04	0.16	0	0.87	2.15	0.00	0.74	0.00		14.95		
4987	5007	Industrial Boulevard	1.25	322.77	0.16	0	0.93	2.15	0.00	0.74	0.00		15.73		
5007	5045	Industrial Boulevard	1.00	446.39	1.05	0	0.56	2.18	0.00	0.70	0.00		15.49		
4823	4858	Industrial Boulevard	1.25	253.04	0.17	0	0.63	1.31	0.00	0.51	0.00		9.52		
4858	4895	Industrial Boulevard	1.25	350.94	0.25	0	0.56	1.31	0.00	0.63	0.00		12.28		
4895	4935	Industrial Boulevard	1.25	378.21	0.07	0	0.79	1.30	0.00	0.63	0.00		14.37		
4935	4949	Industrial Boulevard	1.25	328.81	0.16	0	0.63	1.30	0.00	0.59	0.00		14.29		
4949	4952	Industrial Boulevard	1.25	49.00	0.12	0	0.73	1.30	0.00	0.60	0.00		6.27		
4952	4972	Industrial Boulevard	1.25	280.81	0.16	0	0.75	1.74	0.00	0.60	0.00		12.64		
4972	4989	Industrial Boulevard	1.25	328.25	0.17	0	0.73	1.74	0.00	0.71	0.00		15.02		
4989	5006	Industrial Boulevard	1.25	322.09	0.11	0	0.89	1.74	0.00	0.71	0.00		15.76		
5006	5044	Industrial Boulevard	1.00	423.55	1.09	0	0.48	1.74	0.00	0.53	0.00		15.49		
5044	5045	Industrial Boulevard	1.00	26.29	1.03	0	0.53	1.74	0.00	0.70	0.00		14.65		
5045	5058	Industrial Boulevard	1.00	209.64	2.09	0	0.70	3.92	0.00	1.14	0.00		14.25	209.6	209.6
5058	5079	Industrial Boulevard	1.00	241.76	2.16	0	1.14	3.88	0.00	3.64	0.75	0.1	5.86	241.8	241.8
5079	5106	Industrial Boulevard	1.00	444.64	1.05	0	3.64	3.88	0.00	3.64	4.18	2.6	3.36	444.6	444.6
5106	5144	Industrial Boulevard	1.48	429.64	0.51	0	3.37	9.08	0.00	2.27	4.48	1.9	4.98	429.6	429.6
5144	5155	Industrial Boulevard	1.50	235.26	0.47	0	2.12	9.08	0.00	1.41	4.53	0.6	6.60	235.3	235.3

Note (1) Adverse flow through pipe section. There is capacity in parrallel line, flow diversion alternatives should be addressed.

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Sweetwater															
1043	1156	East H Street	1.00	350.32	5.74	0	0.21	0.83	0.00	0.21	0.00		8.70		
1156	1283	East H Street	1.00	350.29	1.15	0	0.32	0.83	0.00	0.32	0.00		10.66		
1283	1393	East H Street	1.00	351.05	2.75	0	0.25	0.83	0.00	0.45	0.00		8.26		
1393	1384	East H Street	1.00	279.65	0.45	0	0.45	0.83	0.00	0.45	0.00		10.94		
1384	1345	Hampton Court	1.00	231.82	1.30	0	0.33	0.96	0.00	0.33	0.00		14.42		
1345	1346	Hampton Court	1.00	403.84	1.24	0	0.33	0.96	0.00	0.43	0.00		8.66		
1346	1350	Hampton Court	1.00	401.10	0.50	0	0.43	0.96	0.00	0.44	0.00		8.97		
1350	1300	ROW	1.00	422.56	0.47	0	0.44	0.96	0.00	0.50	0.00		8.96		
1300	1258	ROW	1.00	365.85	0.55	0	0.50	0.96	0.00	0.50	0.00		13.96		
1258	1245	ROW	1.00	151.37	1.98	0	0.30	0.96	0.00	0.53	0.00		10.03		
1245	1246	ROW	1.00	382.55	0.53	0	0.53	0.96	0.00	0.53	0.00		5.85		
1246	1129	Redlands Place	1.00	397.75	3.38	0	0.26	0.96	0.00	0.40	0.00		13.14		
1129	1105	Redlands Place	1.00	272.79	1.00	0	0.40	0.96	0.00	0.40	0.00		11.61		
1105	1073	Redlands Place	1.00	241.77	2.13	0	0.29	0.96	0.00	0.32	0.00		8.91		
1073	1010	Redlands Place	1.00	241.31	1.53	0	0.32	0.96	0.00	0.37	0.00		9.13		
1010	948	Redlands Place	1.00	258.24	1.00	0	0.37	0.96	0.00	0.37	0.00		8.80		
948	830	Redlands Place	1.00	402.70	1.30	0	0.33	0.96	0.00	0.33	0.00		13.59		
830	736	ROW	1.00	509.55	19.17	0	0.17	0.96	0.00	0.37	0.00		5.71		
736	688	ROW	1.00	332.55	1.01	0	0.37	1.07	0.00	0.39	0.00		12.21		
688	633	ROW	1.00	406.43	0.89	0	0.39	1.07	0.00	0.39	0.00		8.86		
633	580	ROW	1.00	400.62	0.90	0	0.39	1.07	0.00	0.55	0.00		5.98		
580	520	ROW	1.00	404.67	0.49	0	0.55	1.07	0.00	0.55	0.00		25.90		
520	510	ROW	1.00	112.35	1.78	0	0.32	1.07	0.00	0.36	0.00		17.03		
510	507	ROW	1.00	46.58	1.87	0	0.36	1.07	0.00	0.36	0.00		8.79		
507	486	ROW	1.00	163.85	4.99	0	0.25	1.07	0.00	0.37	0.00		4.87		
486	475	ROW	1.00	65.52	1.07	0	0.37	1.07	0.00	0.51	0.00		6.63		
475	474	Country Vista Lane	1.00	108.27	0.52	0	0.51	1.31	0.00	0.56	0.00		6.49		
474	467	Country Vista Lane	1.00	317.07	0.50	0	0.56	1.31	0.00	0.56	0.00		9.20		
467	464	Country Vista Lane	1.00	195.32	0.89	0	0.45	1.31	0.00	0.45	0.00		15.06		
464	463	Country Vista Lane	1.00	91.00	1.07	0	0.41	1.31	0.00	0.46	0.00		13.91		
463	409	Country Vista Lane	1.00	373.73	1.06	0	0.46	1.31	0.00	0.46	0.00		11.32		
409	437	Sandy Creek Drive	1.00	221.36	1.99	0	0.35	1.31	0.00	0.36	0.00		21.55		
437	430	Sandy Creek Drive	1.00	63.82	1.96	0	0.36	1.31	0.00	0.36	0.00		17.45		
430	445	Acacia Avenue	1.00	120.09	2.31	0	0.33	1.31	0.00	0.33	0.00		17.62		
445	455	Acacia Avenue	1.00	114.12	12.65	0	0.22	1.31	0.00	0.22	0.00		22.71		
455	435	Acacia Avenue	1.00	332.75	2.15	0	0.34	1.31	0.00	0.35	0.00		7.89		
435	411	Acacia Avenue	1.00	351.27	2.59	0	0.35	1.31	0.00	0.35	0.00		7.30		
411	383	Acacia Avenue	1.00	351.02	3.99	0	0.29	1.31	0.00	0.39	0.00		8.21		
383	363	Acacia Avenue	1.00	373.47	2.01	0	0.39	1.31	0.00	0.39	0.00		8.41		
363	349	Acacia Avenue	1.00	334.33	3.73	0	0.30	1.31	0.00	0.42	0.00		8.70		
349	347	Acacia Avenue	1.00	55.08	0.98	0	0.42	1.31	0.00	0.42	0.00		12.85		
347	329	Acacia Avenue	1.00	398.92	1.02	0	0.42	1.31	0.00	0.43	0.00		13.00		
329	317	Acacia Avenue	1.00	420.70	1.01	0	0.43	1.31	0.00	0.43	0.00		10.43		
317	285	Acacia Avenue	1.00	404.54	1.87	0	0.40	1.31	0.00	0.40	0.00		6.36		
285	249	Acacia Avenue	1.00	382.24	3.61	0	0.30	1.31	0.00	0.36	0.00		6.52		
249	222	Acacia Avenue	1.00	364.73	2.90	0	0.36	1.31	0.00	0.36	0.00		7.50		
222	191	Acacia Avenue	1.00	263.74	6.53	0	0.26	1.31	0.00	0.28	0.00		6.66		
191	157	Acacia Avenue	1.00	352.62	4.32	0	0.28	1.31	0.00	0.33	0.00		6.55		
157	111	Acacia Avenue	1.00	355.88	2.64	0	0.33	1.31	0.00	0.33	0.00		7.45		
111	105	Acacia Avenue	1.00	110.87	3.04	0	0.31	1.31	0.00	0.31	0.00		6.77		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
105	91	Acacia Avenue	1.00	247.45	3.04	0	0.31	1.31	0.00	0.37	0.00		8.28		
91	64	Acacia Avenue	1.00	347.91	1.51	0	0.37	1.31	0.00	0.38	0.00		11.60		
64	49	Acacia Avenue	1.00	350.37	1.50	0	0.38	1.31	0.00	0.40	0.00		11.14		
49	41	Acacia Avenue	1.00	287.28	1.21	0	0.40	1.31	0.00	0.40	0.00		10.40		
41	38	Acacia Avenue	1.00	62.85	1.21	0	0.40	1.31	0.00	0.48	0.00		10.97		
869	7302	Otay Lakes Road	0.67	224.70	3.06	0	0.15	0.23	0.00	0.22	0.00		3.45		
7302	7303	Otay Lakes Road	0.67	399.29	3.11	0	0.15	0.23	0.00	0.23	0.00		5.32		
7303	791	Otay Lakes Road	0.67	103.18	2.90	0	0.15	0.23	0.00	0.27	0.00		4.72		
791	740	Otay Lakes Road	0.67	248.05	2.99	0	0.18	0.34	0.00	0.29	0.00		3.68		
740	709	Otay Lakes Road	0.67	273.69	2.59	0	0.19	0.34	0.00	0.29	0.00		6.08		
709	693	Otay Lakes Road	0.67	126.02	2.62	0	0.19	0.34	0.00	0.30	0.00		5.18		
693	628	Otay Lakes Road	0.67	401.22	2.09	0	0.20	0.34	0.00	0.33	0.00		5.47		
628	618	Otay Lakes Road	0.67	399.33	1.50	0	0.22	0.34	0.00	0.37	0.00		4.85		
618	615	Otay Lakes Road	0.67	345.35	1.49	0	0.24	0.34	0.00	0.37	0.00		5.83		
615	603	Otay Lakes Road	0.67	398.38	2.81	0	0.19	0.34	0.00	0.28	0.00		6.04		
603	595	Otay Lakes Road	0.67	401.19	3.19	0	0.18	0.34	0.00	0.28	0.00		6.25		
595	568	Otay Lakes Road	0.67	399.25	4.57	0	0.18	0.34	0.00	0.26	0.00		6.05		
568	482	Otay Lakes Road	0.67	401.98	6.27	0	0.15	0.34	0.00	0.25	0.00		6.33		
482	422	Otay Lakes Road	0.67	398.36	4.52	0	0.16	0.34	0.00	0.26	0.00		8.52		
422	364	Otay Lakes Road	0.67	400.88	3.82	0	0.18	0.34	0.00	0.26	0.00		6.50		
364	324	Otay Lakes Road	0.67	403.23	4.22	0	0.17	0.34	0.00	0.53	0.00		6.81		
324	278	Otay Lakes Road	0.67	375.13	1.20	0	0.35	0.52	0.00	0.53	0.00		12.65		
278	225	Otay Lakes Road	0.67	394.96	3.80	0	0.21	0.52	0.00	0.38	0.00		6.30		
225	207	Otay Lakes Road	0.67	172.09	2.70	0	0.25	0.61	0.00	0.38	0.00		5.28		
207	193	Otay Lakes Road	0.67	100.21	2.69	0	0.26	0.61	0.00	0.38	0.00		4.91		
193	175	Otay Lakes Road	0.67	126.50	2.74	0	0.25	0.61	0.00	0.38	0.00		4.62		
175	160	Otay Lakes Road	0.67	169.63	2.71	0	0.25	0.61	0.00	0.39	0.00		6.08		
160	146	Otay Lakes Road	0.67	61.89	2.62	0	0.26	0.61	0.00	0.39	0.00		6.66		
146	140	Otay Lakes Road	0.67	56.44	17.74	0	0.16	0.61	0.00	0.23	0.00		7.38		
2042	2006	Rice Canyon	0.83	316.96	2.55	0	0.26	0.74	0.00	0.31	0.00		14.19		
2006	2005	Rice Canyon	0.83	238.00	6.93	0	0.20	0.74	0.00	0.24	0.00		5.29		
2005	1989	Rice Canyon	0.83	396.13	0.99	0	0.33	0.73	0.00	0.40	0.00		5.06		
1989	1977	Rice Canyon	0.83	397.44	2.03	0	0.28	0.73	0.00	0.33	0.00		4.73		
1977	1976	Rice Canyon	0.83	292.91	0.98	0	0.33	0.73	0.00	0.40	0.00		4.75		
1976	1984	Rice Canyon	0.83	400.28	2.48	0	0.26	0.73	0.00	0.31	0.00		5.80		
1984	2017	Rice Canyon	0.83	382.65	1.49	0	0.32	0.83	0.00	0.38	0.00		7.58		
2017	2020	Rice Canyon	1.00	248.38	1.05	0	0.32	0.83	0.00	0.32	0.00		3.62		
2020	2051	Rice Canyon	1.00	244.81	1.09	0	0.32	0.83	0.00	0.32	0.00		4.23		
2051	2077	Rice Canyon	1.00	178.90	5.20	0	0.22	0.83	0.00	0.31	0.00		12.40		
2077	2085	Rice Canyon	1.00	242.25	0.39	0	0.45	0.83	0.00	0.45	0.00		5.82		
2085	2129	Rice Canyon	1.00	283.72	2.09	0	0.27	0.83	0.00	0.27	0.00		8.35		
2129	2159	Rice Canyon	1.00	393.92	1.51	0	0.29	0.83	0.00	0.29	0.00		3.51		
2159	2165	Rice Canyon	1.00	113.75	4.25	0	0.23	0.83	0.00	0.38	0.00		5.53		
2165	2171	Rice Canyon	1.00	400.28	0.42	0	0.48	1.06	0.00	0.61	0.00		8.61		
2171	2115	Rice Canyon	1.00	337.55	0.42	0	0.61	1.06	0.00	0.61	0.00		6.76		
2115	2114	Rice Canyon	1.00	248.06	4.03	0	0.26	1.06	0.00	0.28	0.00		6.74		
2114	2121	Rice Canyon	1.00	399.27	2.85	0	0.28	1.06	0.00	0.49	0.00		4.32		
2121	2145	Rice Canyon	1.00	103.33	0.47	0	0.49	1.06	0.00	0.49	0.00		6.68		
2145	2146	Rice Canyon	1.00	201.73	0.82	0	0.39	1.06	0.00	0.40	0.00		4.47		

Ultimate Conditions, Wet Weather
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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2146	2157	Rice Canyon	1.00	380.08	1.21	0	0.40	1.06	0.00	0.40	0.00		1.02		
2157	2190	Rice Canyon	1.00	399.50	2.52	0	0.29	1.06	0.00	0.32	0.00		5.74		
2190	2208	Rice Canyon	1.00	251.21	1.83	0	0.32	1.06	0.00	0.32	0.00		15.78		
2208	2238	Rice Canyon	1.00	188.99	1.83	0	0.32	1.06	0.00	0.32	0.00		9.47		
2238	2262	Rice Canyon	1.00	181.21	1.83	0	0.32	1.06	0.00	0.34	0.00		4.22		
2262	2291	Rice Canyon	1.00	191.08	1.83	0	0.34	1.23	0.00	0.35	0.00		9.72		
2291	7420	Rice Canyon	1.00	106.79	1.64	0	0.35	1.23	0.00	0.35	0.00		5.70		
7420	2391	Rice Canyon	1.00	339.48	1.17	0	0.39	1.23	0.00	0.39	0.00		15.21		
2391	2475	Rice Canyon	1.00	341.52	2.75	0	0.31	1.23	0.00	0.33	0.00		6.79		
2475	2506	Rice Canyon	1.00	228.02	1.29	0	0.38	1.23	0.00	0.38	0.00		8.27		
2506	2537	Rice Canyon	1.00	160.46	3.48	0	0.29	1.23	0.00	0.40	0.00		13.92		
2537	2576	Rice Canyon	1.00	212.85	1.07	0	0.40	1.23	0.00	0.41	0.00		15.60		
2576	2618	Rice Canyon	1.00	278.44	0.98	0	0.41	1.23	0.00	0.41	0.00		18.87		
2618	2636	Rice Canyon	1.00	125.53	11.90	0	0.21	1.23	0.00	0.53	0.00		10.79		
7609	7604	Camino Del Sol	0.67	92.74	1.13	0	0.27	0.44	0.00	0.41	0.00		8.34		
7604	7603	Camino Del Sol	0.67	145.54	1.13	0	0.27	0.44	0.00	0.49	0.00		9.98		
7603	7608	Camino Del Sol	0.67	332.81	1.23	0	0.33	0.44	0.00	0.49	0.00		9.65		
7608	7602	Camino Del Sol	0.67	132.47	5.17	0	0.18	0.44	0.00	0.34	0.00		14.67		
7602	7601	Camino Del Sol	0.67	391.89	2.04	0	0.23	0.44	0.00	0.39	0.00		10.95		
7601	7600	Camino Del Sol	0.67	341.65	1.31	0	0.26	0.44	0.00	0.39	0.00		6.53		
7600	7588	Camino Del Sol	0.67	336.25	1.38	0	0.25	0.44	0.00	0.38	0.00		6.06		
7588	7587	Camino Del Sol	0.67	393.97	1.38	0	0.26	0.44	0.00	0.38	0.00		5.90		
7587	7586	Camino Del Sol	0.67	66.25	1.40	0	0.25	0.44	0.00	0.38	0.00		8.79		
7586	7577	Camino Del Sol	0.67	72.32	1.41	0	0.25	0.44	0.00	0.38	0.00		8.13		
7577	7576	Camino Del Sol	0.67	172.52	1.40	0	0.26	0.44	0.00	0.38	0.00		7.28		
7576	7585	Camino Del Sol	0.67	143.99	1.50	0	0.25	0.44	0.00	0.38	0.00		12.99		
7585	7582	Camino Del Sol	0.67	98.28	1.56	0	0.25	0.44	0.00	0.37	0.00		9.53		
7582	7581	Camino Del Sol	0.67	252.52	1.49	0	0.25	0.44	0.00	0.38	0.00		7.38		
7581	7572	Camino Del Sol	0.67	346.76	1.49	0	0.25	0.44	0.00	0.38	0.00		4.58		
7572	7578	Camino Del Sol	0.67	91.30	1.49	0	0.25	0.44	0.00	0.38	0.00		7.15		
7578	7579	Camino Del Sol	0.67	171.60	1.49	0	0.25	0.44	0.00	0.38	0.00		6.63		
7579	2874	East H Street	0.67	114.64	1.61	0	0.24	0.44	0.00	0.43	0.00		5.82		
2874	2867	East H Street	0.67	402.11	3.79	0	0.29	0.73	0.00	0.43	0.00		6.71		
2867	2857	East H Street	1.00	403.12	4.17	0	0.21	0.73	0.00	0.40	0.00		7.70		
2857	2847	East H Street	1.00	279.68	1.01	0	0.40	0.73	0.00	0.40	0.00		8.25		
2847	2829	East H Street	1.00	194.85	8.45	0	0.18	0.73	0.00	0.21	0.00		11.18		
2829	2794	East H Street	1.00	325.60	5.00	0	0.21	0.73	0.00	0.21	0.00		8.39		
2794	2736	East H Street	1.00	398.59	5.67	0	0.20	0.73	0.00	0.22	0.00		7.94		
2736	2678	East H Street	1.00	394.00	3.94	0	0.22	0.73	0.00	0.29	0.00		8.40		
2678	2644	East H Street	1.00	341.13	3.34	0	0.29	0.92	0.00	0.29	0.00		8.27		
2644	2636	East H Street	1.00	365.97	6.70	0	0.21	0.92	0.00	0.53	0.00		9.12		
2636	2637	East H Street	1.00	107.00	1.21	0	0.53	2.15	0.00	0.56	0.00		20.16		
2637	2639	East H Street	1.00	402.02	1.19	0	0.56	2.28	0.00	0.56	0.00		17.85		
2639	2640	East H Street	1.00	200.16	1.33	0	0.54	2.28	0.00	0.54	0.00		15.49		
2640	2630	East H Street	1.00	225.18	1.38	0	0.53	2.28	0.00	0.54	0.00		16.17		
2630	2615	East H Street	1.00	399.21	1.30	0	0.54	2.28	0.00	0.54	0.00		17.26		
2615	2592	East H Street	1.00	396.35	1.36	0	0.53	2.28	0.00	0.67	0.00		18.47		
2592	2586	East H Street	1.25	247.18	0.40	0	0.67	2.28	0.00	0.54	0.00		19.73		
2586	2580	East H Street	1.25	249.57	0.40	0	0.67	2.28	0.00	0.54	0.00		17.72		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2580	2563	East H Street	1.25	194.48	0.40	0	0.67	2.28	0.00	0.54	0.00		16.71		
2563	2549	East H Street	1.25	307.98	0.40	0	0.67	2.28	0.00	0.64	0.00		15.49		
2549	2517	East H Street	1.25	326.53	0.40	0	0.81	2.89	0.00	0.64	0.00		13.58		
2517	2486	East H Street	1.25	256.35	0.50	0	0.72	2.89	0.00	0.58	0.00		11.48		
2486	2449	East H Street	1.25	211.76	0.50	0	0.72	2.89	0.00	0.58	0.00		14.26		
2449	2414	East H Street	1.25	237.62	0.50	0	0.72	2.89	0.00	0.62	0.00		17.32		
2414	2355	East H Street	1.25	326.27	0.40	0	0.78	2.89	0.00	0.67	0.00		20.83		
2355	2330	East H Street	1.25	359.67	0.40	0	0.84	3.23	0.00	0.67	0.00		21.69		
2330	2331	East H Street	1.25	358.53	0.40	0	0.84	3.23	0.00	0.67	0.00		23.13		
2331	2333	East H Street	1.25	91.08	21.94	0	0.28	3.23	0.00	0.54	0.00		21.93		
2333	2371	East H Street	1.25	294.09	1.67	0	0.68	3.23	0.00	0.54	0.00		37.71		
2371	2336	East H Street	1.25	476.32	8.19	0	0.35	3.23	0.00	0.44	0.00		42.66		
2336	2219	ROW	1.25	445.37	1.49	0	0.55	3.23	0.00	0.45	0.00		8.76		
2219	2107	ROW	1.25	411.79	1.46	0	0.56	3.23	0.00	0.45	0.00		6.79		
2107	1967	ROW	1.25	404.99	1.48	0	0.56	3.23	0.00	0.45	0.00		8.39		
1967	1806	ROW	1.25	353.37	1.70	0	0.56	3.23	0.00	0.44	0.00		7.39		
1806	7661	ROW	1.50	408.37	1.47	0	0.51	3.23	0.00	0.51	0.00		9.44		
7661	1490	ROW	1.50	335.72	0.54	0	0.77	3.23	0.00	0.51	0.00		9.68		
1490	7647	ROW	1.50	294.32	1.44	0	0.52	3.23	0.00	0.41	0.00		10.23		
7647	7892	Plaza Bonita Road	1.50	23.59	1.27	0	0.61	3.23	0.00	0.57	0.00		9.89		
7892	7643	Plaza Bonita Road	1.50	281.46	0.30	0	0.85	3.23	0.00	0.57	0.00		10.20		
7643	1211	Plaza Bonita Road	1.50	339.52	0.50	0	0.69	3.23	0.00	0.46	0.00		11.58		
1211	1165	Plaza Bonita Road	1.50	400.44	0.50	0	0.69	3.23	0.00	0.48	0.00		16.41		
1165	1102	Plaza Bonita Road	1.50	397.62	0.50	0	0.71	3.23	0.00	0.48	0.00		9.75		
1102	1074	Plaza Bonita Road	1.50	226.00	0.67	0	0.66	3.43	0.00	0.50	0.00		9.79		
1074	1054	Plaza Bonita Road	1.67	85.42	0.43	0	0.75	3.71	0.00	0.56	0.00		9.18		
1054	963	Plaza Bonita Road	1.67	351.69	0.20	0	0.97	3.71	0.00	0.58	0.00		8.29		
963	923	Plaza Bonita Road	1.67	142.12	0.42	0	0.76	3.71	0.00	0.46	0.00		8.41		
1080	1110	C Street	1.00	299.28	0.23	0	0.65	1.30	0.00	0.66	0.00		6.35		
1110	1119	C Street	1.00	134.50	0.23	0	0.66	1.30	0.00	0.70	0.00		6.34		
1119	1116	Fifth Avenue	1.00	9.72	0.21	0	0.70	1.30	0.00	0.70	0.00		6.30		
1116	1001	Fifth Avenue	1.00	322.06	0.23	0	0.65	1.30	0.00	0.65	0.00		16.37		
1001	914	Fifth Avenue	1.00	304.63	0.23	0	0.65	1.30	0.00	0.65	0.00		5.61		
914	883	Fifth Avenue	1.00	106.10	0.24	0	0.65	1.30	0.00	0.66	0.00		9.31		
883	836	Fifth Avenue	1.00	154.96	0.23	0	0.66	1.30	0.00	0.66	0.00		12.05		
836	848	Fifth Avenue	1.00	55.36	0.23	0	0.61	1.30	0.00	0.61	0.00		9.95		
G Street															
5359	5362	G Street	1.00	72.19	2.44	0	0.35	0.83	0.00	0.41	0.00		12.63		
5362	5371	G Street	1.00	374.07	0.53	0	0.41	0.83	0.00	0.41	0.00		13.84		
5371	5381	G Street	1.00	375.37	0.68	0	0.36	0.83	0.00	0.36	0.00		15.26		
5381	5385	G Street	1.00	373.56	0.68	0	0.36	0.82	0.00	0.36	0.00		14.81		
5385	5388	G Street	1.00	148.46	2.18	0	0.27	0.82	0.00	0.44	0.00		14.48		
5291	5290	Third Avenue	1.00	169.13	2.23	0	0.26	0.76	0.00	0.44	0.00		9.28		
5290	5308	Third Avenue	1.00	274.90	0.28	0	0.44	0.76	0.00	0.47	0.00		12.08		
5308	5316	Alley	1.00	358.29	0.26	0	0.47	0.76	0.00	0.47	0.00		11.81		
5316	5301	Alley	1.00	192.55	0.30	0	0.43	0.77	0.00	0.48	0.00		15.67		
5301	5299	Alley	1.00	127.53	0.30	0	0.48	0.76	0.00	0.76	0.00		10.55		
5299	5300	Alley	1.00	162.94	0.32	0	0.76	0.75	0.00	1.22	0.00		9.80	162.9	162.9

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5300	5298	Center Street	1.00	34.55	0.26	0	1.22	0.75	0.00	1.29	3.46	0.2	9.71	34.5	34.5
5298	5314	Center Street	1.00	629.88	0.02	0	1.29	0.99	0.00	1.29	4.41	0.3	9.73	629.9	629.9
5314	5369	Fourth Avenue	1.00	677.01	0.17	0	0.61	0.99	0.00	0.67	0.00		12.96		
5369	5388	Fourth Avenue	1.00	323.55	0.16	0	0.67	0.99	0.00	0.67	0.00		13.59		
5388	5397	G Street	1.25	451.43	1.14	0	0.44	1.80	0.00	0.35	0.00		16.54		
5397	5402	G Street	1.25	440.33	1.17	0	0.44	1.80	0.00	0.35	0.00		15.09		
5402	5405	G Street	1.25	417.09	1.20	0	0.43	1.80	0.00	0.43	0.00		14.25		
5405	5406	G Street	1.25	11.03	1.18	0	0.53	1.80	0.00	0.43	0.00		13.41		
5348	5372	Fifth Avenue	1.00	333.40	0.12	0	0.37	0.35	0.00	0.37	0.00		12.05		
5372	5396	Fifth Avenue	1.00	327.52	0.12	0	0.36	0.35	0.00	0.41	0.00		8.45		
5396	5406	Fifth Avenue	1.00	324.58	0.12	0	0.41	0.35	0.00	0.41	0.00		10.60		
5406	5416	G Street	1.25	438.23	1.33	0	0.46	2.15	0.00	0.44	0.00		13.46		
5416	5420	G Street	1.25	438.23	0.70	0	0.55	2.15	0.00	0.66	0.00		14.71		
5420	2970	G Street	1.25	423.91	0.42	0	0.82	2.15	0.00	0.66	0.00		13.52		
2210	2310	Broadway	1.00	337.33	0.16	0	0.66	1.10	0.00	0.66	0.00		16.85		
2310	2415	Broadway	1.00	330.97	0.16	0	0.66	1.10	0.00	0.66	0.00		16.69		
2415	2502	Broadway	1.00	331.27	0.16	0	0.66	1.10	0.00	0.73	0.00		15.82		
2502	2571	Broadway	1.00	335.66	0.16	0	0.73	1.10	0.00	0.73	0.00		15.68		
2571	2570	Broadway	1.00	57.40	0.16	0	0.59	1.10	0.00	0.59	0.00		15.05		
2570	2643	Broadway	1.25	313.85	0.09	0	0.68	1.10	0.00	0.57	0.00		15.55		
2643	2653	Broadway	1.25	30.28	0.07	0	0.72	1.10	0.00	0.57	0.00		14.44		
2653	2743	Broadway	1.25	315.21	0.07	0	0.72	1.10	0.00	0.57	0.00		14.32		
2743	2828	Broadway	1.25	330.92	0.08	0	0.70	1.10	0.00	0.57	0.00		13.11		
2828	2903	Broadway	1.25	341.24	0.08	0	0.71	1.10	0.00	0.60	0.00		12.36		
2903	2970	Broadway	1.25	312.59	0.08	0	0.75	1.21	0.00	0.60	0.00		12.04		
2970	2981	G Street	1.50	50.70	7.73	0	0.34	3.36	0.00	0.30	0.00		11.61		
2650	2770	Broadway	0.67	421.31	0.12	0	3.58	0.73	0.00	5.37	14.69	2.9	3.42	421.3	421.3
2770	2869	Broadway	0.67	442.47	0.13	0	2.60	0.73	0.00	3.90	12.15	1.9	4.40	442.5	442.5
2869	2901	Broadway	0.67	132.87	0.17	0	1.60	0.73	0.00	2.39	7.86	0.9	5.40	132.9	132.9
2901	2978	Broadway	0.67	332.62	0.17	0	1.33	0.73	0.00	2.00	7.34	0.7	5.67	332.6	332.6
2978	2980	Broadway	0.67	3.28	0.30	0	0.68	0.73	0.00	1.02	0.92	0.0	6.32	3.3	3.3
2980	2981	Broadway	0.67	4.00	0.25	0	0.58	0.73	0.00	0.87	0.00		6.42	4.0	
2981	2982	G Street	1.50	11.70	9.66	0	0.46	4.08	0.00	0.46	0.00		15.56		
5359	5361	G Street	0.83	43.13	0.28	0	0.35	0.42	0.00	0.42	0.00		12.63		
5361	5363	G Street	0.83	151.13	0.30	0	0.35	0.42	0.00	0.42	0.00		12.75		
5363	5373	G Street	0.83	487.28	0.30	0	0.31	0.42	0.00	0.46	0.00		13.25		
5373	5391	G Street	0.83	661.94	0.30	0	0.38	0.41	0.00	0.46	0.00		12.34		
5391	5395	G Street	1.00	214.84	0.64	0	0.40	0.94	0.00	0.40	0.00		15.59		
5395	5398	G Street	1.00	445.24	0.64	0	0.40	0.94	0.00	0.40	0.00		14.03		
5398	5408	G Street	1.00	659.69	0.64	0	0.40	0.94	0.00	0.40	0.00		10.81		
5408	5418	G Street	1.00	660.28	0.56	0	0.41	0.94	0.00	0.41	0.00		12.89		
5418	2976	G Street	1.00	626.19	0.55	0	0.41	0.94	0.00	0.53	0.00		13.73		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Max Surcharge Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3474	3426	Broadway	1.00	141.09	0.35	0	0.24	0.26	0.00	0.28	0.00		6.76		
3426	3283	Broadway	1.00	415.63	0.20	0	0.28	0.26	0.00	0.28	0.00		6.72		
3283	3234	Broadway	1.00	125.52	0.20	0	0.28	0.26	0.00	0.28	0.00		6.72		
3234	3208	Broadway	1.00	103.11	0.20	0	0.27	0.26	0.00	0.28	0.00		6.73		
3208	3207	Broadway	1.00	95.27	0.20	0	0.28	0.26	0.00	0.28	0.00		6.72		
3207	5512	Broadway	1.00	199.11	0.20	0	0.27	0.26	0.00	0.28	0.00		6.73		
5512	3097	Broadway	1.00	125.20	0.20	0	0.28	0.26	0.00	0.30	0.00		6.72		
3097	3057	Broadway	1.00	167.38	0.20	0	0.30	0.26	0.00	0.30	0.00		6.70		
3057	2976	Broadway	1.00	335.18	0.42	0	0.23	0.26	0.00	0.32	0.00		6.77		
2976	2975	G Street	1.00	13.84	0.29	0	0.53	1.21	0.00	0.53	0.00		11.51		
2975	2984	G Street	1.50	50.32	7.81	0	0.21	1.21	0.00	0.17	0.00		11.76		
2984	2982	G Street	1.50	14.31	7.69	0	0.25	1.21	0.00	0.46	0.00		15.85		
2982	NewMH12	G Street	1.50	616.96	0.56	0	0.69	4.51	0.00	0.61	0.00		16.33		
NewMH12	NewMH4	G Street	2.25	1365.09	0.50	0	0.87	6.89	0.00	0.46	0.00		16.73		
2778	2799	F Street	1.00	261.18	0.34	0	0.49	1.00	0.00	0.52	0.00		6.51		
2799	2838	Private Road	1.00	160.57	0.28	0	0.52	1.00	0.00	0.54	0.00		16.73		
2838	2837	Private Road	1.00	74.28	0.24	0	0.54	1.00	0.00	0.54	0.00		17.16		
2837	2913	Private Road	1.00	377.26	0.25	0	0.52	1.00	0.00	0.57	0.00		17.36		
2913	3001	Private Road	1.00	391.22	0.24	0	0.57	1.00	0.00	0.57	0.00		13.25		
3001	3094	Private Road	1.00	374.40	0.32	0	0.50	1.00	0.00	0.80	0.00		13.26		
3094	NewMH4	G Street	1.25	5.00	2.06	0	0.93	1.00	0.00	0.82	0.00		3.42		
NewMH4	NewMH3	G Street	2.25	262.09	0.50	0	1.03	7.88	0.00	0.46	0.00		12.38		
NewMH3	3119	G Street	1.50	51.11	0.84	0	0.70	4.15	0.00	0.54	0.00		12.53		
3119	3142	G Street	1.50	401.23	0.42	0	0.91	4.15	0.00	0.60	0.00		13.59		
3142	NewMH2	G Street	1.50	58.24	0.68	0	0.75	4.18	0.00	0.62	0.00		8.99		
NewMH3	N590	G Street	1.75	60.23	0.50	0	0.70	3.73	0.00	0.45	0.00		12.53		
N590	N593	G Street	1.75	389.32	0.36	0	0.88	3.73	0.00	0.50	0.00		13.29		
N593	NewMH2	G Street	1.75	61.03	1.33	0	0.54	3.73	0.00	0.53	0.00		9.98		
NewMH2	NewMH1B	G Street	2.25	256.00	0.50	0	0.93	7.91	0.00	0.44	0.00		7.09		
NewMH1B	3169	G Street	2.25	20.33	0.50	0	1.00	7.91	0.00	0.44	0.00		5.01		
3169	NewMH1A	G Street	2.25	50.21	0.25	0	1.15	8.31	0.00	0.51	0.00		5.21		
NewMH1A	BeginVault	G Street	2.00	8.00	0.22	0	1.13	8.31	0.00	0.57	0.00		5.16		
BeginVault	3170	G Street	2.00	11.66	0.26	0	0.96	8.31	0.00	0.48	0.00		5.34		
3170	3172	G Street	2.00	45.00	3.29	0	0.68	8.31	0.00	0.34	0.00		3.56		
3172	3148	G Street	2.00	92.49	7.89	0	0.49	8.31	0.00	0.51	0.00		3.74		
Telegraph															
MH34	MH35	J Street	1.75	367.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.11		
MH35	3371	J Street	1.75	378.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.47		
3371	3425	J Street	0.67	439.74	1.89	0	0.27	0.59	0.00	0.48	0.00		6.73		
3425	3450	J Street	0.67	203.46	1.14	0	0.32	0.59	0.00	0.52	0.00		6.68		
3450	3473	J Street	0.67	237.31	1.13	0	0.34	0.61	0.00	0.52	0.00		6.66		
3473	3519	J Street	0.67	440.73	1.57	0	0.30	0.61	0.00	0.45	0.00		6.70		

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3519	3527	J Street	0.67	42.48	1.65	0	0.29	0.61	0.00	0.66	0.00		6.71		
3371	3362	J Street	1.75	7.81	191.32	0	0.27	5.99	0.00	0.58	0.00		6.73		
3362	3420	J Street	1.75	451.55	0.37	0	1.01	6.03	0.00	0.58	0.00		19.84		
3420	3472	J Street	1.75	447.18	0.36	0	1.02	6.03	0.00	0.58	0.00		14.48		
3472	3514	J Street	1.75	424.63	0.42	0	1.00	6.03	0.00	0.57	0.00		11.11		
3514	3527	J Street	1.50	42.94	2.47	0	0.63	6.05	0.00	0.50	0.00		6.95		
3527	3570	J Street	1.50	398.57	1.59	0	0.75	6.66	0.00	0.54	0.00		7.39		
3570	3604	J Street	1.50	441.16	1.30	0	0.81	6.79	0.00	0.54	0.00		6.66		
3604	3660	J Street	1.50	440.17	1.28	0	0.81	6.79	0.00	0.54	0.00		7.89		
3660	3698	J Street	1.50	335.37	1.28	0	0.81	6.79	0.00	0.54	0.00		7.53		
3698	3733	J Street	1.50	325.18	1.28	0	0.81	6.79	0.00	0.56	0.00		7.33		
3733	3766	J Street	1.50	325.54	1.28	0	0.83	6.79	0.00	0.56	0.00		7.48		
3766	3812	J Street	1.50	316.28	1.34	0	0.80	6.79	0.00	0.54	0.00		7.18		
3812	3819	J Street	1.50	51.98	0.88	0	0.91	6.79	0.00	0.61	0.00		7.05		
3819	3843	J Street	1.50	263.19	0.88	0	0.92	6.79	0.00	0.61	0.00		6.92		
3843	3862	J Street	1.50	344.55	1.74	0	0.75	6.79	0.00	0.50	0.00		6.58		
3862	3875	J Street	1.50	153.38	1.80	0	0.73	6.79	0.00	0.49	0.00		8.59		
3875	3888	J Street	1.50	184.41	1.79	0	0.74	6.79	0.00	0.56	0.00		9.30		
3888	3893	J Street	1.50	73.53	1.75	0	0.83	6.79	0.00	0.60	0.00		10.06		
3893	3922	J Street	1.50	273.71	1.75	0	0.81	7.06	0.00	0.60	0.00		9.46		
3922	3938	J Street	1.49	330.13	1.50	0	0.82	7.23	0.00	0.58	0.00		7.14		
3938	3961	J Street	1.50	325.45	1.52	0	0.80	7.23	0.00	0.57	0.00		5.61		
3961	3980	J Street	1.50	333.96	1.48	0	0.81	7.23	0.00	0.57	0.00		6.31		
3980	4001	J Street	1.50	330.80	1.50	0	0.81	7.23	0.00	0.58	0.00		7.26		
4001	4025	J Street	1.50	345.46	1.42	0	0.84	7.57	0.00	0.58	0.00		8.93		
4025	4038	J Street	1.50	350.44	1.40	0	0.85	7.57	0.00	0.66	0.00		8.82		
4038	4066	J Street	1.50	329.81	1.48	0	0.99	7.57	0.00	0.66	0.00		9.07		
4066	4075	J Street	1.50	276.13	4.18	0	0.62	7.57	0.00	0.59	0.00		8.58		
4075	4080	J Street	1.50	72.18	1.25	0	0.88	7.57	0.00	0.59	0.00		14.86		
4080	4097	J Street	1.50	317.96	1.25	0	0.88	7.57	0.00	0.59	0.00		14.51		
4097	4114	J Street	1.50	231.57	1.49	0	0.89	7.74	0.00	0.59	0.00		12.98		
4114	4121	J Street	1.75	82.58	1.51	0	0.77	7.74	0.00	0.44	0.00		13.55		
4121	4131	J Street	1.75	145.94	1.51	0	0.77	7.74	0.00	0.51	0.00		13.90		
4131	4139	J Street	1.75	107.68	1.00	0	0.90	7.74	0.00	0.54	0.00		14.37		
4139	4153	J Street	1.75	220.46	1.01	0	0.86	7.74	0.00	0.54	0.00		14.18		
4153	4158	J Street	1.75	33.60	1.01	0	0.89	7.74	0.00	0.59	0.00		13.68		
4158	4172	J Street	1.75	256.85	1.00	0	0.97	7.74	0.00	0.59	0.00		13.54		
4172	4187	J Street	1.75	259.33	0.99	0	0.90	7.74	0.00	0.89	0.00		13.09	259.3	
3588	3603	J Street	0.67	221.13	1.18	0	0.07	0.03	0.00	0.11	0.00		6.93		
3603	3658	J Street	0.67	440.29	1.24	0	0.07	0.03	0.00	0.11	0.00		8.00		
3658	3692	J Street	0.67	334.34	1.34	0	0.06	0.03	0.00	0.11	0.00		7.47		
3692	3731	J Street	0.67	327.04	1.26	0	0.07	0.03	0.00	0.11	0.00		7.43		
3731	3764	J Street	0.67	325.10	1.29	0	0.06	0.03	0.00	0.11	0.00		7.57		
3764	3810	J Street	0.67	315.94	1.34	0	0.07	0.03	0.00	0.11	0.00		7.26		
3810	3842	J Street	0.83	324.89	1.16	0	0.06	0.03	0.00	0.08	0.00		11.01		
3842	3845	J Street	0.83	84.08	1.03	0	0.07	0.03	0.00	0.08	0.00		6.76		
3845	3872	J Street	0.83	403.37	1.31	0	0.06	0.03	0.00	0.12	0.00		6.64		
3872	3891	J Street	0.83	257.42	1.55	0	0.10	0.07	0.00	0.12	0.00		7.90		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3891	3919	J Street	0.83	274.03	2.69	0	0.08	0.07	0.00	0.11	0.00		7.42		
3919	3947	J Street	1.00	440.97	1.60	0	0.09	0.07	0.00	0.10	0.00		7.28		
3947	3973	J Street	1.00	429.70	1.53	0	0.10	0.07	0.00	0.10	0.00		6.83		
3973	3999	J Street	1.00	450.77	1.38	0	0.09	0.07	0.00	0.13	0.00		8.41		
3999	4021	J Street	1.00	330.00	0.54	0	0.13	0.07	0.00	0.13	0.00		9.08		
4021	4036	J Street	1.00	329.25	1.58	0	0.10	0.07	0.00	0.10	0.00		6.40		
4036	4052	J Street	1.00	240.11	2.83	0	0.08	0.07	0.00	0.09	0.00		7.12		
4052	4070	J Street	1.00	235.21	1.85	0	0.09	0.07	0.00	0.09	0.00		9.41		
4070	4074	J Street	1.00	165.40	2.21	0	0.08	0.07	0.00	0.20	0.00		9.77		
4074	4079	J Street	1.00	58.19	1.72	0	0.20	0.40	0.00	0.20	0.00		11.60		
4079	4095	J Street	1.00	317.23	2.11	0	0.19	0.40	0.00	0.22	0.00		11.31		
4095	4096	J Street	1.00	15.22	2.10	0	0.22	0.40	0.00	0.24	0.00		11.76		
4096	4113	J Street	1.00	223.82	0.89	0	0.24	0.40	0.00	0.24	0.00		11.76		
4113	4119	J Street	1.00	90.37	1.11	0	0.22	0.40	0.00	0.22	0.00		10.78		
4119	4129	J Street	1.00	140.10	1.03	0	0.22	0.40	0.00	0.32	0.00		10.78		
4129	4130	J Street	1.00	5.77	1.04	0	0.32	0.40	0.00	0.32	0.00		10.68		
4130	4134	J Street	1.00	107.68	0.62	0	0.25	0.40	0.00	0.26	0.00		10.75		
4134	4150	J Street	1.00	215.92	0.62	0	0.26	0.40	0.00	0.26	0.00		10.01		
4150	4151	J Street	1.00	4.67	4.28	0	0.25	0.40	0.00	0.29	0.00		8.55		
4151	4155	J Street	1.00	33.60	0.39	0	0.29	0.40	0.00	0.34	0.00		8.41		
4155	4171	J Street	1.00	257.27	0.38	0	0.34	0.40	0.00	0.34	0.00		8.06		
4171	4186	J Street	1.00	259.36	1.23	0	0.21	0.40	0.00	0.21	0.00		5.89		
4186	4187	J Street	1.00	3.80	172.37	0	0.11	0.00	0.00	0.00	0.00		5.89		
4187	4189	J Street	1.75	13.31	0.90	0	1.56	8.12	0.00	0.92	0.00		11.49	13.3	
5613	5614	Naples Street	1.00	341.50	0.81	0	0.45	1.32	0.00	0.59	0.00		16.25		
5614	5615	Naples Street	1.00	333.92	0.31	0	0.59	1.31	0.00	0.62	0.00		15.21		
5615	5718	Naples Street	1.00	313.81	0.31	0	0.62	1.31	0.00	0.62	0.00		14.87		
5718	5719	Naples Street	1.00	267.98	0.55	0	0.55	1.31	0.00	0.55	0.00		12.38		
5719	4460	Naples Street	1.00	66.53	0.93	0	0.43	1.31	0.00	0.55	0.00		10.47		
4460	4459	Naples Street	1.00	443.85	0.55	0	0.55	1.31	0.00	0.55	0.00		10.37		
4459	4466	Naples Street	1.00	434.36	0.95	0	0.43	1.31	0.00	0.43	0.00		7.97		
4466	4475	Naples Street	1.00	191.36	0.95	0	0.43	1.31	0.00	0.46	0.00		7.97		
4475	4483	Naples Street	1.00	252.01	0.95	0	0.46	1.31	0.00	0.46	0.00		7.81		
4483	4493	Naples Street	1.00	444.13	1.34	0	0.39	1.31	0.00	0.39	0.00		7.71		
4493	4497	Naples Street	1.00	214.81	1.34	0	0.39	1.31	0.00	0.39	0.00		8.41		
4497	4501	Naples Street	1.00	220.03	1.34	0	0.39	1.31	0.00	0.39	0.00		7.76		
4501	4512	Naples Street	1.00	444.17	1.34	0	0.39	1.31	0.00	0.44	0.00		7.11		
4512	4526	Naples Street	1.00	440.25	2.45	0	0.44	2.24	0.00	0.52	0.00		10.56		
4526	4533	Naples Street	1.00	200.22	1.42	0	0.52	2.24	0.00	0.52	0.00		10.48		
4533	4542	Naples Street	1.00	246.39	1.42	0	0.52	2.24	0.00	0.52	0.00		10.93		
4542	4548	Naples Street	1.00	159.15	1.44	0	0.51	2.24	0.00	0.55	0.00		11.49		
4548	4555	Naples Street	1.00	277.90	1.44	0	0.55	2.24	0.00	0.55	0.00		11.45		
4555	4565	Naples Street	1.00	440.76	1.97	0	0.47	2.24	0.00	0.50	0.00		11.53		
4565	4578	Naples Street	1.00	440.88	1.61	0	0.50	2.24	0.00	0.53	0.00		14.50		
4578	4581	Naples Street	1.00	97.28	1.61	0	0.53	2.24	0.00	0.53	0.00		13.65		
4581	4590	Naples Street	1.00	342.85	2.53	0	0.44	2.24	0.00	0.56	0.00		13.56		
4590	4600	Naples Street	1.00	351.12	1.08	0	0.56	2.24	0.00	0.64	0.00		11.84		
4600	4604	Naples Street	1.00	89.42	0.72	0	0.64	2.24	0.00	0.64	0.00		11.96		
4604	4610	Naples Street	1.00	219.27	0.72	0	0.64	2.24	0.00	0.66	0.00		12.02		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4610	4616	Naples Street	1.00	230.66	0.72	0	0.66	2.24	0.00	0.66	0.00		12.16		
4616	4626	Naples Street	1.00	410.65	0.86	0	0.61	2.24	0.00	0.61	0.00		12.39		
4626	4639	Naples Street	1.00	378.78	0.86	0	0.60	2.24	0.00	0.61	0.00		14.40		
4639	4644	Naples Street	1.00	315.77	0.86	0	0.61	2.24	0.00	0.61	0.00		12.99		
4644	4655	Naples Street	1.00	344.66	0.86	0	0.60	2.24	0.00	0.60	0.00		13.80		
4655	4662	Naples Street	1.00	345.73	0.86	0	0.60	2.24	0.00	0.64	0.00		14.40		
4662	4669	Naples Street	1.00	353.33	0.88	0	0.64	2.24	0.00	0.64	0.00		13.96		
4669	4673	Naples Street	1.25	264.22	0.79	0	0.54	2.24	0.00	0.57	0.00		14.86		
4673	4642	Industrial Boulevard	1.25	443.44	0.31	0	0.72	2.24	0.00	0.58	0.00		13.28		
4642	4607	Industrial Boulevard	1.25	443.70	0.30	0	0.72	2.24	0.00	0.58	0.00		16.28		
4607	4567	Industrial Boulevard	1.25	437.53	0.30	0	0.72	2.24	0.00	0.81	0.00		14.28		
4508	4519	Moss Street	0.67	310.70	0.39	0	5.43	1.09	0.00	8.14	9.25	4.8	18.55	310.7	310.7
4519	4529	Moss Street	0.67	324.82	0.41	0	4.27	1.09	0.00	6.41	8.47	3.6	15.41	324.8	324.8
4529	4536	Moss Street	0.67	322.72	0.40	0	3.11	1.09	0.00	4.66	8.72	2.4	14.91	322.7	322.7
4536	4551	Moss Street	0.67	344.99	0.41	0	1.84	1.09	0.00	2.75	8.00	1.2	13.96	345.0	345.0
4551	4562	Moss Street	0.83	362.06	0.44	0	0.64	1.09	0.00	0.76	0.00		10.07		
4562	4567	Moss Street	0.83	269.04	1.09	0	0.41	1.09	0.00	1.22	0.00		11.39	269.0	269.0
4567	4525	Industrial Boulevard	1.25	454.27	0.29	0	1.02	3.44	0.00	0.81	0.00		13.72		
4525	4492	Industrial Boulevard	1.25	427.21	0.31	0	0.98	3.44	0.00	0.83	0.00		11.62		
4492	4455	Industrial Boulevard	1.25	443.21	0.30	0	1.04	3.44	0.00	0.99	0.00		11.76	443.2	
4455	4409	Industrial Boulevard	1.25	443.56	0.30	0	1.24	3.44	0.00	1.18	0.00		10.36	443.6	443.6
4409	4369	Industrial Boulevard	1.25	446.18	0.30	0	1.48	3.42	0.00	1.33	1.52	0.2	10.42	446.2	446.2
4369	4337	Industrial Boulevard	1.25	434.42	0.36	0	1.66	3.34	0.00	1.66	2.13	0.4	8.34	434.4	434.4
4337	4328	K Street	1.25	262.09	0.28	0	2.07	3.34	0.00	1.70	2.90	0.8	12.05	262.1	262.1
4328	4277	Colorado Avenue	1.25	497.59	0.30	0	2.12	3.93	0.00	1.70	3.23	0.9	9.54	497.6	497.6
4277	4243	Colorado Avenue	1.30	443.41	0.32	0	1.79	3.93	0.00	1.45	3.03	0.5	9.77	443.4	443.4
4243	4189	Colorado Avenue	1.25	372.58	0.28	0	1.88	3.93	0.00	1.51	4.26	0.6	8.29	372.6	372.6
4189	4207	J Street	2.00	281.50	0.32	0	1.62	12.29	0.00	0.81	0.00		11.55		
4207	4209	J Street	2.00	221.53	0.78	0	1.15	12.29	0.00	0.58	0.00		11.85		
4209	4233	J Street	2.00	414.75	0.91	0	1.09	12.29	0.00	0.55	0.00		5.91		
3294	3295	Bay Boulevard	1.50	306.37	0.18	0	0.18	0.11	0.00	0.12	0.00		5.80		
3295	3400	Bay Boulevard	1.50	310.84	0.26	0	0.15	0.12	0.00	0.12	0.00		4.88		
3400	3518	Bay Boulevard	1.50	344.16	0.22	0	0.17	0.11	0.00	0.12	0.00		6.16		
3518	3621	Bay Boulevard	1.50	328.42	0.29	0	0.17	0.12	0.00	0.12	0.00		6.43		
3621	3735	Bay Boulevard	1.50	329.51	0.29	0	0.17	0.11	0.00	0.12	0.00		5.88		
3735	3846	Bay Boulevard	1.75	330.83	0.17	0	0.19	0.12	0.00	0.42	0.00		5.83		
3578	3617	Between H Street & I Street	1.00	493.24	1.00	0	0.44	1.41	0.00	0.44	0.00		12.19		
3617	3639	Between H Street & I Street	1.00	121.91	1.03	0	0.43	1.41	0.00	0.44	0.00		9.98		
3639	3649	Between H Street & I Street	1.00	129.02	0.96	0	0.44	1.41	0.00	0.44	0.00		6.56		
3649	3676	Between H Street & I Street	1.00	259.96	1.00	0	0.44	1.41	0.00	0.44	0.00		6.56		
3676	3708	Between H Street & I Street	1.00	275.55	1.00	0	0.44	1.41	0.00	0.48	0.00		6.56		
3708	3736	Between H Street & I Street	1.00	262.60	0.98	0	0.48	1.41	0.00	0.48	0.00		6.52		
3736	3763	Between H Street & I Street	1.00	254.15	1.64	0	0.38	1.40	0.00	0.52	0.00		6.62		
3763	3818	Between H Street & I Street	1.25	389.87	0.37	0	0.52	1.40	0.00	0.45	0.00		6.48		
3818	3846	Between H Street & I Street	1.25	389.24	0.35	0	0.56	1.40	0.00	0.45	0.00		6.57		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3846	3927	Bay Boulevard	1.75	330.47	0.06	0	0.73	1.50	0.00	0.42	0.00		5.34		
3927	3987	Bay Boulevard	1.75	331.07	0.12	0	0.64	1.50	0.00	0.37	0.00		6.13		
3987	4048	Bay Boulevard	1.75	331.46	0.18	0	0.56	1.50	0.00	0.44	0.00		6.60		
4048	4110	Bay Boulevard	1.75	333.27	0.05	0	0.77	1.50	0.00	0.44	0.00		8.48		
4110	4181	Bay Boulevard	1.75	331.70	0.06	0	0.74	1.50	0.00	0.42	0.00		8.68		
4181	4230	Bay Boulevard	1.75	326.05	0.16	0	0.63	1.50	0.00	0.36	0.00		7.48		
4230	4233	Bay Boulevard	1.00	24.84	6.04	0	0.29	1.50	0.00	0.98	0.00		10.71	24.8	
4474	4432	Bay Boulevard	1.00	432.31	0.30	0	0.27	0.32	0.00	0.27	0.00		10.15		
4432	4391	Bay Boulevard	1.00	447.94	0.30	0	0.27	0.32	0.00	0.27	0.00		8.95		
4391	4351	Bay Boulevard	1.00	434.79	0.30	0	0.27	0.32	0.00	0.27	0.00		6.79		
4351	4308	Bay Boulevard	1.00	439.89	0.30	0	0.27	0.32	0.00	0.30	0.00		6.09		
4308	4270	Bay Boulevard	1.00	418.02	0.22	0	0.30	0.32	0.00	0.30	0.00		5.38		
4270	4259	Bay Boulevard	1.00	170.70	0.22	0	0.29	0.32	0.00	0.33	0.00		4.31		
4259	4233	Bay Boulevard	1.00	295.92	0.22	0	0.33	0.32	0.00	0.33	0.00		4.65		
4233	BeginCV2	J Street	2.50	40.95	0.22	0	1.48	14.22	0.00	0.59	0.00		10.02		
BeginCV2	EndCV2	J Street	2.50	11.67	0.26	0	1.44	14.22	0.00	0.58	0.00		9.65		
EndCV2	4223	J Street	2.50	6.02	1.33	0	1.34	14.22	0.00	0.53	0.00		9.78		
4223	4219	J Street	2.50	11.67	0.26	0	1.44	14.22	0.00	0.58	0.00		9.65		
Main Street															
6279	4892	ROW	1.00	556.68	0.43	0	0.36	0.63	0.00	0.36	0.00		4.51		
4892	4891	ROW	1.00	234.97	0.48	0	0.34	0.63	0.00	0.35	0.00		12.55		
4891	4930	ROW	1.00	383.50	0.43	0	0.35	0.63	0.00	0.35	0.00		7.35		
4930	6304	ROW	1.00	250.68	0.49	0	0.35	0.63	0.00	0.35	0.00		9.46		
6304	6303	Loma Lane	0.67	243.38	1.16	0	0.33	0.63	0.00	0.49	0.00		15.10		
6303	6301	Loma Lane	0.67	346.39	1.17	0	0.33	0.63	0.00	0.69	0.00		13.24		
6301	6299	Loma Lane	0.67	28.52	0.42	0	0.46	0.63	0.00	0.69	0.00		3.10		
6299	6300	Orange Avenue	0.67	133.50	0.40	0	0.46	0.63	0.00	0.69	0.00		3.05		
6300	6309	Orange Avenue	0.67	98.25	0.41	0	0.46	0.63	0.00	0.69	0.00		2.81		
6309	6306	Orange Avenue	0.67	135.04	0.41	0	0.46	0.63	0.00	0.69	0.00		2.64		
6306	6331	Jade Court	0.67	401.01	0.40	0	0.46	0.63	0.00	0.69	0.00		6.41		
6331	6326	Jade Court	0.67	399.40	0.40	0	0.46	0.63	0.00	0.69	0.00		3.34		
6326	6327	Jade Court	0.67	300.88	0.40	0	0.46	0.63	0.00	0.87	0.00		12.14	300.9	
6327	6328	Jade Court	0.67	233.39	0.39	0	0.58	0.63	0.00	0.87	0.00		11.62	233.4	
6328	5874	Tourmaline Street	0.67	398.02	1.50	0	0.30	0.63	0.00	0.46	0.00		6.60		
5874	5872	Tourmaline Street	0.67	141.52	1.50	0	0.30	0.63	0.00	0.46	0.00		6.70		
5872	5873	Hilltop Drive	0.67	281.51	10.00	0	0.18	0.63	0.00	0.38	0.00		6.82		
5873	5883	Hilltop Drive	0.67	350.64	2.99	0	0.25	0.63	0.00	0.38	0.00		17.29		
5883	5882	Main Street	0.83	301.03	1.32	0	0.32	0.78	0.00	0.38	0.00		10.11		
5882	5881	Main Street	0.83	379.03	1.33	0	0.32	0.78	0.00	0.53	0.00		7.08		
5881	5880	Main Street	0.83	345.03	0.43	0	0.44	0.78	0.00	0.54	0.00		7.01		
5880	5879	Main Street	0.83	122.04	0.40	0	0.45	0.78	0.00	0.84	0.00		6.49		
5879	5890	Main Street	0.83	218.51	0.40	0	0.70	1.27	0.00	0.84	0.00		6.73		
5890	5889	Main Street	0.83	334.04	0.99	0	0.49	1.27	0.00	0.59	0.00		6.82		
5889	5888	Main Street	0.83	340.53	1.35	0	0.42	1.27	0.00	0.54	0.00		7.20		
5888	5887	Main Street	0.83	334.03	1.15	0	0.45	1.27	0.00	0.54	0.00		7.78		
5887	5886	Main Street	0.83	318.02	1.31	0	0.42	1.27	0.00	0.55	0.00		6.64		
5886	5130	Main Street	0.83	333.02	1.17	0	0.46	1.27	0.00	0.55	0.00		7.76		
5130	5129	Main Street	0.83	332.02	1.52	0	0.45	1.27	0.00	0.57	0.00		6.65		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5129	5127	Main Street	0.83	327.04	0.97	0	0.47	1.40	0.00	2.50	0.00		6.67	327.0	327.0
5127	5126	Main Street	0.83	326.03	0.36	0	2.08	1.28	0.00	2.63	2.86	1.2	5.23	326.0	326.0
5126	5125	Main Street	0.83	344.04	0.21	0	2.19	1.27	0.00	2.63	6.60	1.4	4.29	344.0	344.0
5125	5124	Main Street	0.83	314.52	0.56	0	1.78	1.29	0.00	3.02	2.35	0.9	5.41	314.5	314.5
4753	4795	Second Avenue	1.25	352.98	0.67	0	0.52	1.69	0.00	0.49	0.00		6.48		
4795	4842	Second Avenue	1.25	319.60	0.67	0	0.61	1.68	0.00	0.52	0.00		6.39		
4842	4849	Quintard Street	1.25	198.09	0.67	0	0.65	1.69	0.00	0.84	0.00		14.32		
4849	4859	Quintard Street	1.25	225.76	0.95	0	1.05	1.66	0.00	2.45	0.00		11.29	225.8	225.8
4859	4864	Quintard Street	1.25	117.13	0.78	0	3.07	1.66	0.00	3.12	6.38	1.8	8.41	117.1	117.1
4864	4866	Quintard Street	1.25	103.53	0.78	0	3.90	1.66	0.00	3.72	12.32	2.7	8.31	103.5	103.5
4866	4897	Private Road	0.67	284.27	0.67	0	4.65	1.66	0.00	6.97	15.62	4.0	8.22	284.3	284.3
4867	4894	Private Road	0.67	275.92	0.67	0	0.18	0.16	0.00	0.44	0.00		12.66		
4894	4897	Private Road	1.00	12.15	0.66	Note (1)	0.29	-0.40	0.00	0.00	0.00		12.91		
4897	4948	Private Road	1.00	576.78	0.67	0	0.46	1.26	0.00	0.49	0.00		12.82		
4948	4945	Orange Avenue	1.00	371.38	0.52	0	0.49	1.26	0.00	0.60	0.00		13.64		
4945	4941	Orange Avenue	1.00	370.35	0.28	0	0.60	1.26	0.00	0.62	0.00		7.67		
4941	4957	Third Avenue	1.00	357.77	0.26	0	0.62	1.26	0.00	0.64	0.00		8.47		
4957	4979	Third Avenue	1.00	350.41	0.23	0	0.64	1.26	0.00	0.70	0.00		9.57		
4979	4999	Third Avenue	1.00	355.77	0.22	0	0.70	1.26	0.00	0.70	0.00		14.11		
4999	5036	Third Avenue	1.00	394.53	0.41	0	0.53	1.26	0.00	0.72	0.00		15.06		
5036	5035	Tremont Street	1.00	8.52	0.35	0	0.72	1.71	0.00	0.72	0.00		8.66		
4894	4924	Private Road	1.00	298.50	0.68	0	0.29	0.55	0.00	0.29	0.00		12.91		
4924	4946	Private Road	1.00	265.80	0.67	0	0.29	0.55	0.00	0.35	0.00		13.39		
4946	4947	Private Road	1.00	15.51	0.64	0	0.35	0.55	0.00	0.35	0.00		11.62		
4947	4944	Orange Avenue	1.00	343.19	0.52	0	0.31	0.55	0.00	0.37	0.00		13.76		
4944	4939	Orange Avenue	1.00	383.45	0.27	0	0.37	0.55	0.00	0.55	0.00		7.50		
4939	4940	Orange Avenue	1.00	7.35	0.27	0	0.55	0.55	0.00	0.55	0.00		8.37		
4940	4958	Third Avenue	1.00	367.92	0.26	0	0.55	1.10	0.00	0.59	0.00		8.39		
4958	4980	Third Avenue	1.00	350.76	0.23	0	0.59	1.10	0.00	0.62	0.00		9.50		
4980	5000	Third Avenue	1.00	355.90	0.22	0	0.62	1.10	0.00	0.62	0.00		14.07		
5000	5035	Third Avenue	1.00	384.04	0.41	0	0.52	1.10	0.00	0.52	0.00		14.95		
5035	5034	Tremont Street	1.00	296.01	1.21	0	0.60	2.81	0.00	0.67	0.00		8.64		
5034	5039	Tremont Street	1.00	15.70	1.21	0	0.67	1.58	0.00	0.82	0.00		6.46		
5039	5037	Tremont Street	1.00	347.54	0.25	0	0.82	1.59	0.00	0.82	0.00		6.20		
5034	5032	Tremont Street	1.00	361.00	0.25	0	0.67	1.24	0.00	0.67	0.00		6.46		
5032	5037	Tremont Street	1.00	9.70	1.62	0	0.50	1.25	0.00	0.57	0.00		8.23		
5037	5053	Fresno Avenue	1.00	371.40	2.07	0	0.57	2.98	0.00	0.61	0.00		8.32		
5053	5088	Fresno Avenue	1.00	370.88	1.33	0	0.61	2.96	0.00	1.55	0.00		7.58	370.9	370.9
5088	5092	Fresno Avenue	1.00	8.63	1.28	0	1.55	1.66	0.00	1.60	1.54	0.5	8.04	8.6	8.6
5092	5123	Fresno Avenue	1.00	378.13	0.40	0	1.60	1.64	0.00	2.34	1.68	0.6	8.02	378.1	378.1

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5088	5095	Fresno Avenue	1.00	11.60	0.36	0	1.55	1.26	0.00	1.56	1.54	0.5	8.04	11.6	11.6
5095	5124	Fresno Avenue	1.00	378.00	0.36	0	1.56	1.24	0.00	2.49	1.58	0.6	7.99	378.0	378.0
5124	5123	Main Street	0.83	8.55	2.11	0	2.52	2.45	0.00	3.02	8.16	1.7	6.42	8.5	8.5
5123	5122	Main Street	1.26	362.51	0.31	0	2.34	4.06	0.00	1.85	3.08	1.1	5.78	362.5	362.5
5122	5121	Main Street	1.25	350.51	0.92	0	2.09	4.05	0.00	3.19	2.66	0.8	7.14	350.5	350.5
5121	5119	Main Street	1.25	310.51	0.21	0	3.98	4.99	0.00	3.19	13.56	2.7	6.49	310.5	310.5
5119	5118	Main Street	1.25	345.01	0.28	0	2.82	4.98	0.00	2.26	7.24	1.6	6.30	345.0	345.0
5118	5117	Main Street	1.25	415.51	0.40	0	1.75	4.98	0.00	1.40	3.84	0.5	6.33	415.5	415.5
5117	5116	Main Street	1.25	411.51	0.52	0	1.18	4.98	0.00	0.95	0.00		6.57	411.5	
5116	5115	Main Street	1.25	400.51	0.66	0	1.11	5.04	0.00	0.89	0.00		6.96	400.5	
5115	5114	Main Street	1.25	400.04	0.88	0	0.91	5.00	0.00	1.53	0.00		7.61	400.0	400.0
5114	5113	Main Street	1.25	402.05	0.88	0	1.91	4.94	0.00	2.50	1.54	0.7	6.13	402.0	402.0
5113	5112	Main Street	1.25	398.05	0.87	0	3.12	4.94	0.00	3.45	3.27	1.9	5.25	398.1	398.1
5112	5111	Main Street	1.25	400.07	0.60	0	4.32	4.94	0.00	3.55	4.57	3.1	4.21	400.1	400.1
5111	5110	Main Street	1.25	277.03	0.36	0	4.44	4.94	0.00	3.55	7.62	3.2	3.98	277.0	277.0
5110	5109	Main Street	1.25	109.51	0.36	0	3.86	5.08	0.00	3.09	10.28	2.6	4.83	109.5	109.5
5109	5107	Main Street	1.25	392.56	0.32	0	3.59	5.09	0.00	2.87	13.25	2.3	5.21	392.6	392.6
5107	5106	Main Street	1.25	399.54	0.72	0	2.45	5.09	0.00	2.32	3.62	1.2	5.59	399.5	399.5
4595	4608	Oxford Street	1.00	440.65	0.42	0	0.46	1.00	0.00	0.46	0.00		15.59		
4608	4620	Oxford Street	1.00	440.97	0.42	0	0.46	1.00	0.00	0.46	0.00		10.94		
4620	4631	Oxford Street	1.00	440.61	0.42	0	0.46	1.00	0.00	0.50	0.00		12.04		
4631	4640	Oxford Street	1.00	344.36	0.67	0	0.50	1.43	0.00	0.50	0.00		8.10		
4640	4646	Oxford Street	1.00	332.82	0.66	0	0.50	1.43	0.00	0.62	0.00		7.90		
4646	4651	Oxford Street	1.00	111.17	0.32	0	0.62	1.43	0.00	0.68	0.00		7.58		
4651	4657	Oxford Street	1.00	209.71	0.33	0	0.68	1.43	0.00	0.68	0.00		7.53		
4657	4664	Oxford Street	1.00	326.32	0.83	0	0.46	1.43	0.00	0.73	0.00		7.79		
4664	4670	Oxford Street	1.00	270.98	0.25	0	0.73	1.43	0.00	0.73	0.00		6.13		
4670	4674	Oxford Street	1.00	372.42	0.53	0	0.53	1.43	0.00	0.68	0.00		8.22		
4674	4679	Oxford Street	1.00	324.74	0.53	0	0.68	1.43	0.00	0.68	0.00		10.03		
4679	4683	Oxford Street	1.00	351.98	4.20	0	0.30	1.43	0.00	0.31	0.00		2.43		
4683	4688	Oxford Street	1.00	342.82	3.64	0	0.31	1.43	0.00	0.53	0.00		6.70		
4688	4701	Oxford Street	1.00	325.73	0.54	0	0.53	1.43	0.00	0.80	0.00		7.97		
4701	4712	Oxford Street	1.00	310.47	0.59	0	0.80	1.75	0.00	0.80	0.00		6.07		
4712	4722	Oxford Street	1.00	314.61	2.60	0	0.37	2.76	0.00	2.89	0.00		5.74	314.6	314.6
4722	4726	Oxford Street	1.00	69.26	0.27	0	2.87	3.26	0.00	2.89	3.01	1.9	9.41	69.3	69.3
4726	4733	Oxford Street	1.00	400.65	0.51	0	2.58	3.06	0.00	2.60	2.66	1.6	9.89	400.6	400.6
4733	4749	Oxford Street	1.00	374.44	0.45	0	2.05	2.94	0.00	2.08	3.65	1.0	6.97	374.4	374.4
4749	4763	Oxford Street	1.00	321.58	0.95	0	0.72	2.89	0.00	0.72	0.00		7.99		
4763	4765	Oxford Street	1.00	53.60	1.32	0	0.69	2.82	0.00	1.11	0.00		8.76	53.6	53.6
4765	4778	Oxford Street	1.25	407.41	0.16	0	1.11	2.76	0.00	0.89	0.00		8.66	407.4	
4778	4794	Oxford Street	1.25	363.32	0.15	0	1.08	2.71	0.00	0.86	0.00		5.03	363.3	
4794	4823	Industrial Boulevard	1.25	203.34	0.17	0	0.99	2.70	0.00	0.79	0.00		6.72		
4823	4828	Industrial Boulevard	1.25	35.08	0.17	0	0.67	1.26	0.00	0.55	0.00		9.48		
4828	4856	Industrial Boulevard	1.25	213.80	0.16	0	0.69	1.26	0.00	0.71	0.00		9.82		
4856	4893	Industrial Boulevard	1.25	350.19	0.17	0	0.89	2.26	0.00	0.73	0.00		11.77		
4893	4933	Industrial Boulevard	1.25	378.64	0.16	0	0.91	2.26	0.00	0.73	0.00		13.94		
4933	4950	Industrial Boulevard	1.25	334.24	0.16	0	0.90	2.26	0.00	0.72	0.00		14.05		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4950	4970	Industrial Boulevard	1.25	326.12	0.16	0	0.91	2.26	0.00	0.73	0.00		12.91		
4970	4987	Industrial Boulevard	1.25	329.04	0.16	0	0.91	2.25	0.00	0.79	0.00		14.91		
4987	5007	Industrial Boulevard	1.25	322.77	0.16	0	0.99	2.25	0.00	0.79	0.00		15.67		
5007	5045	Industrial Boulevard	1.00	446.39	1.05	0	0.58	2.29	0.00	0.71	0.00		15.47		
4823	4858	Industrial Boulevard	1.25	253.04	0.17	0	0.67	1.43	0.00	0.54	0.00		9.48		
4858	4895	Industrial Boulevard	1.25	350.94	0.25	0	0.59	1.43	0.00	0.67	0.00		12.25		
4895	4935	Industrial Boulevard	1.25	378.21	0.07	0	0.83	1.43	0.00	0.67	0.00		14.33		
4935	4949	Industrial Boulevard	1.25	328.81	0.16	0	0.66	1.43	0.00	0.60	0.00		14.26		
4949	4952	Industrial Boulevard	1.25	49.00	0.12	0	0.75	1.43	0.00	0.61	0.00		6.25		
4952	4972	Industrial Boulevard	1.25	280.81	0.16	0	0.76	1.80	0.00	0.61	0.00		12.63		
4972	4989	Industrial Boulevard	1.25	328.25	0.17	0	0.75	1.79	0.00	0.72	0.00		15.00		
4989	5006	Industrial Boulevard	1.25	322.09	0.11	0	0.90	1.79	0.00	0.72	0.00		15.75		
5006	5044	Industrial Boulevard	1.00	423.55	1.09	0	0.49	1.79	0.00	0.55	0.00		15.48		
5044	5045	Industrial Boulevard	1.00	26.29	1.03	0	0.55	1.79	0.00	0.71	0.00		14.63		
5045	5058	Industrial Boulevard	1.00	209.64	2.09	0	0.71	4.05	0.00	1.80	0.00		14.24	209.6	209.6
5058	5079	Industrial Boulevard	1.00	241.76	2.16	0	1.80	4.04	0.00	3.98	1.84	0.8	5.20	241.8	241.8
5079	5106	Industrial Boulevard	1.00	444.64	1.05	0	3.98	4.03	0.00	3.98	4.10	3.0	3.02	444.6	444.6
5106	5144	Industrial Boulevard	1.48	429.64	0.51	0	3.33	9.05	0.00	2.25	4.24	1.8	5.02	429.6	429.6
5144	5155	Industrial Boulevard	1.50	235.26	0.47	0	2.10	9.05	0.00	1.40	4.33	0.6	6.62	235.3	235.3

Note (1) Adverse flow through pipe section. There is capacity in parrallel line, flow diversion alternatives should be addressed.

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Sweetwater															
1043	1156	East H Street	1.00	350.32	5.74	0	0.21	0.83	0.00	0.21	0.00		8.70		
1156	1283	East H Street	1.00	350.29	1.15	0	0.32	0.83	0.00	0.32	0.00		10.66		
1283	1393	East H Street	1.00	351.05	2.75	0	0.25	0.83	0.00	0.45	0.00		8.26		
1393	1384	East H Street	1.00	279.65	0.45	0	0.45	0.83	0.00	0.45	0.00		10.94		
1384	1345	Hampton Court	1.00	231.82	1.30	0	0.33	0.96	0.00	0.33	0.00		14.42		
1345	1346	Hampton Court	1.00	403.84	1.24	0	0.33	0.96	0.00	0.43	0.00		8.66		
1346	1350	Hampton Court	1.00	401.10	0.50	0	0.43	0.96	0.00	0.44	0.00		8.97		
1350	1300	ROW	1.00	422.56	0.47	0	0.44	0.96	0.00	0.50	0.00		8.96		
1300	1258	ROW	1.00	365.85	0.55	0	0.50	0.96	0.00	0.50	0.00		13.96		
1258	1245	ROW	1.00	151.37	1.98	0	0.30	0.96	0.00	0.53	0.00		10.03		
1245	1246	ROW	1.00	382.55	0.53	0	0.53	0.96	0.00	0.53	0.00		5.85		
1246	1129	Redlands Place	1.00	397.75	3.38	0	0.26	0.96	0.00	0.40	0.00		13.14		
1129	1105	Redlands Place	1.00	272.79	1.00	0	0.40	0.96	0.00	0.40	0.00		11.61		
1105	1073	Redlands Place	1.00	241.77	2.13	0	0.29	0.96	0.00	0.32	0.00		8.91		
1073	1010	Redlands Place	1.00	241.31	1.53	0	0.32	0.96	0.00	0.37	0.00		9.13		
1010	948	Redlands Place	1.00	258.24	1.00	0	0.37	0.96	0.00	0.37	0.00		8.80		
948	830	Redlands Place	1.00	402.70	1.30	0	0.33	0.96	0.00	0.33	0.00		13.59		
830	736	ROW	1.00	509.55	19.17	0	0.17	0.96	0.00	0.37	0.00		5.71		
736	688	ROW	1.00	332.55	1.01	0	0.37	1.07	0.00	0.39	0.00		12.21		
688	633	ROW	1.00	406.43	0.89	0	0.39	1.07	0.00	0.39	0.00		8.86		
633	580	ROW	1.00	400.62	0.90	0	0.39	1.07	0.00	0.55	0.00		5.98		
580	520	ROW	1.00	404.67	0.49	0	0.55	1.07	0.00	0.55	0.00		25.90		
520	510	ROW	1.00	112.35	1.78	0	0.32	1.07	0.00	0.36	0.00		17.03		
510	507	ROW	1.00	46.58	1.87	0	0.36	1.07	0.00	0.36	0.00		8.79		
507	486	ROW	1.00	163.85	4.99	0	0.25	1.07	0.00	0.37	0.00		4.87		
486	475	ROW	1.00	65.52	1.07	0	0.37	1.07	0.00	0.51	0.00		6.63		
475	474	Country Vista Lane	1.00	108.27	0.52	0	0.51	1.31	0.00	0.56	0.00		6.49		
474	467	Country Vista Lane	1.00	317.07	0.50	0	0.56	1.31	0.00	0.56	0.00		9.20		
467	464	Country Vista Lane	1.00	195.32	0.89	0	0.45	1.31	0.00	0.45	0.00		15.06		
464	463	Country Vista Lane	1.00	91.00	1.07	0	0.41	1.31	0.00	0.46	0.00		13.91		
463	409	Country Vista Lane	1.00	373.73	1.06	0	0.46	1.31	0.00	0.46	0.00		11.32		
409	437	Sandy Creek Drive	1.00	221.36	1.99	0	0.35	1.31	0.00	0.36	0.00		21.55		
437	430	Sandy Creek Drive	1.00	63.82	1.96	0	0.36	1.31	0.00	0.36	0.00		17.45		
430	445	Acacia Avenue	1.00	120.09	2.31	0	0.33	1.31	0.00	0.33	0.00		17.62		
445	455	Acacia Avenue	1.00	114.12	12.65	0	0.22	1.31	0.00	0.22	0.00		22.71		
455	435	Acacia Avenue	1.00	332.75	2.15	0	0.34	1.31	0.00	0.35	0.00		7.89		
435	411	Acacia Avenue	1.00	351.27	2.59	0	0.35	1.31	0.00	0.35	0.00		7.30		
411	383	Acacia Avenue	1.00	351.02	3.99	0	0.29	1.31	0.00	0.39	0.00		8.21		
383	363	Acacia Avenue	1.00	373.47	2.01	0	0.39	1.31	0.00	0.39	0.00		8.41		
363	349	Acacia Avenue	1.00	334.33	3.73	0	0.30	1.31	0.00	0.42	0.00		8.70		
349	347	Acacia Avenue	1.00	55.08	0.98	0	0.42	1.31	0.00	0.42	0.00		12.85		
347	329	Acacia Avenue	1.00	398.92	1.02	0	0.42	1.31	0.00	0.43	0.00		13.00		
329	317	Acacia Avenue	1.00	420.70	1.01	0	0.43	1.31	0.00	0.43	0.00		10.43		
317	285	Acacia Avenue	1.00	404.54	1.87	0	0.40	1.31	0.00	0.40	0.00		6.36		
285	249	Acacia Avenue	1.00	382.24	3.61	0	0.30	1.31	0.00	0.36	0.00		6.52		
249	222	Acacia Avenue	1.00	364.73	2.90	0	0.36	1.31	0.00	0.36	0.00		7.50		
222	191	Acacia Avenue	1.00	263.74	6.53	0	0.26	1.31	0.00	0.28	0.00		6.66		
191	157	Acacia Avenue	1.00	352.62	4.32	0	0.28	1.31	0.00	0.33	0.00		6.55		
157	111	Acacia Avenue	1.00	355.88	2.64	0	0.33	1.31	0.00	0.33	0.00		7.45		
111	105	Acacia Avenue	1.00	110.87	3.04	0	0.31	1.31	0.00	0.31	0.00		6.77		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
105	91	Acacia Avenue	1.00	247.45	3.04	0	0.31	1.31	0.00	0.37	0.00		8.28		
91	64	Acacia Avenue	1.00	347.91	1.51	0	0.37	1.31	0.00	0.38	0.00		11.60		
64	49	Acacia Avenue	1.00	350.37	1.50	0	0.38	1.31	0.00	0.40	0.00		11.14		
49	41	Acacia Avenue	1.00	287.28	1.21	0	0.40	1.31	0.00	0.40	0.00		10.40		
41	38	Acacia Avenue	1.00	62.85	1.21	0	0.40	1.31	0.00	0.48	0.00		10.97		
869	7302	Otay Lakes Road	0.67	224.70	3.06	0	0.15	0.23	0.00	0.22	0.00		3.45		
7302	7303	Otay Lakes Road	0.67	399.29	3.11	0	0.15	0.23	0.00	0.23	0.00		5.32		
7303	791	Otay Lakes Road	0.67	103.18	2.90	0	0.15	0.23	0.00	0.27	0.00		4.72		
791	740	Otay Lakes Road	0.67	248.05	2.99	0	0.18	0.34	0.00	0.29	0.00		3.68		
740	709	Otay Lakes Road	0.67	273.69	2.59	0	0.19	0.34	0.00	0.29	0.00		6.08		
709	693	Otay Lakes Road	0.67	126.02	2.62	0	0.19	0.34	0.00	0.30	0.00		5.18		
693	628	Otay Lakes Road	0.67	401.22	2.09	0	0.20	0.34	0.00	0.33	0.00		5.47		
628	618	Otay Lakes Road	0.67	399.33	1.50	0	0.22	0.34	0.00	0.37	0.00		4.85		
618	615	Otay Lakes Road	0.67	345.35	1.49	0	0.24	0.34	0.00	0.37	0.00		5.83		
615	603	Otay Lakes Road	0.67	398.38	2.81	0	0.19	0.34	0.00	0.28	0.00		6.04		
603	595	Otay Lakes Road	0.67	401.19	3.19	0	0.18	0.34	0.00	0.28	0.00		6.25		
595	568	Otay Lakes Road	0.67	399.25	4.57	0	0.18	0.34	0.00	0.26	0.00		6.05		
568	482	Otay Lakes Road	0.67	401.98	6.27	0	0.15	0.34	0.00	0.25	0.00		6.33		
482	422	Otay Lakes Road	0.67	398.36	4.52	0	0.16	0.34	0.00	0.26	0.00		8.52		
422	364	Otay Lakes Road	0.67	400.88	3.82	0	0.18	0.34	0.00	0.26	0.00		6.50		
364	324	Otay Lakes Road	0.67	403.23	4.22	0	0.17	0.34	0.00	0.53	0.00		6.81		
324	278	Otay Lakes Road	0.67	375.13	1.20	0	0.35	0.52	0.00	0.53	0.00		12.65		
278	225	Otay Lakes Road	0.67	394.96	3.80	0	0.21	0.52	0.00	0.38	0.00		6.30		
225	207	Otay Lakes Road	0.67	172.09	2.70	0	0.25	0.61	0.00	0.38	0.00		5.28		
207	193	Otay Lakes Road	0.67	100.21	2.69	0	0.26	0.61	0.00	0.38	0.00		4.91		
193	175	Otay Lakes Road	0.67	126.50	2.74	0	0.25	0.61	0.00	0.38	0.00		4.62		
175	160	Otay Lakes Road	0.67	169.63	2.71	0	0.25	0.61	0.00	0.39	0.00		6.08		
160	146	Otay Lakes Road	0.67	61.89	2.62	0	0.26	0.61	0.00	0.39	0.00		6.66		
146	140	Otay Lakes Road	0.67	56.44	17.74	0	0.16	0.61	0.00	0.23	0.00		7.38		
2042	2006	Rice Canyon	0.83	316.96	2.55	0	0.26	0.74	0.00	0.31	0.00		14.19		
2006	2005	Rice Canyon	0.83	238.00	6.93	0	0.20	0.74	0.00	0.24	0.00		5.29		
2005	1989	Rice Canyon	0.83	396.13	0.99	0	0.33	0.73	0.00	0.40	0.00		5.06		
1989	1977	Rice Canyon	0.83	397.44	2.03	0	0.28	0.73	0.00	0.33	0.00		4.73		
1977	1976	Rice Canyon	0.83	292.91	0.98	0	0.33	0.73	0.00	0.40	0.00		4.75		
1976	1984	Rice Canyon	0.83	400.28	2.48	0	0.26	0.73	0.00	0.31	0.00		5.80		
1984	2017	Rice Canyon	0.83	382.65	1.49	0	0.32	0.83	0.00	0.38	0.00		7.58		
2017	2020	Rice Canyon	1.00	248.38	1.05	0	0.32	0.83	0.00	0.32	0.00		3.62		
2020	2051	Rice Canyon	1.00	244.81	1.09	0	0.32	0.83	0.00	0.32	0.00		4.23		
2051	2077	Rice Canyon	1.00	178.90	5.20	0	0.22	0.83	0.00	0.31	0.00		12.40		
2077	2085	Rice Canyon	1.00	242.25	0.39	0	0.45	0.83	0.00	0.45	0.00		5.82		
2085	2129	Rice Canyon	1.00	283.72	2.09	0	0.27	0.83	0.00	0.27	0.00		8.35		
2129	2159	Rice Canyon	1.00	393.92	1.51	0	0.29	0.83	0.00	0.29	0.00		3.51		
2159	2165	Rice Canyon	1.00	113.75	4.25	0	0.23	0.83	0.00	0.38	0.00		5.53		
2165	2171	Rice Canyon	1.00	400.28	0.42	0	0.48	1.06	0.00	0.61	0.00		8.61		
2171	2115	Rice Canyon	1.00	337.55	0.42	0	0.61	1.06	0.00	0.61	0.00		6.76		
2115	2114	Rice Canyon	1.00	248.06	4.03	0	0.26	1.06	0.00	0.28	0.00		6.74		
2114	2121	Rice Canyon	1.00	399.27	2.85	0	0.28	1.06	0.00	0.49	0.00		4.32		
2121	2145	Rice Canyon	1.00	103.33	0.47	0	0.49	1.06	0.00	0.49	0.00		6.68		
2145	2146	Rice Canyon	1.00	201.73	0.82	0	0.39	1.06	0.00	0.40	0.00		4.47		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2146	2157	Rice Canyon	1.00	380.08	1.21	0	0.40	1.06	0.00	0.40	0.00		1.02		
2157	2190	Rice Canyon	1.00	399.50	2.52	0	0.29	1.06	0.00	0.32	0.00		5.74		
2190	2208	Rice Canyon	1.00	251.21	1.83	0	0.32	1.06	0.00	0.32	0.00		15.78		
2208	2238	Rice Canyon	1.00	188.99	1.83	0	0.32	1.06	0.00	0.32	0.00		9.47		
2238	2262	Rice Canyon	1.00	181.21	1.83	0	0.32	1.06	0.00	0.34	0.00		4.22		
2262	2291	Rice Canyon	1.00	191.08	1.83	0	0.34	1.23	0.00	0.35	0.00		9.72		
2291	7420	Rice Canyon	1.00	106.79	1.64	0	0.35	1.23	0.00	0.35	0.00		5.70		
7420	2391	Rice Canyon	1.00	339.48	1.17	0	0.39	1.23	0.00	0.39	0.00		15.21		
2391	2475	Rice Canyon	1.00	341.52	2.75	0	0.31	1.23	0.00	0.33	0.00		6.79		
2475	2506	Rice Canyon	1.00	228.02	1.29	0	0.38	1.23	0.00	0.38	0.00		8.27		
2506	2537	Rice Canyon	1.00	160.46	3.48	0	0.29	1.23	0.00	0.40	0.00		13.92		
2537	2576	Rice Canyon	1.00	212.85	1.07	0	0.40	1.23	0.00	0.41	0.00		15.60		
2576	2618	Rice Canyon	1.00	278.44	0.98	0	0.41	1.23	0.00	0.41	0.00		18.87		
2618	2636	Rice Canyon	1.00	125.53	11.90	0	0.21	1.23	0.00	0.53	0.00		10.79		
7609	7604	Camino Del Sol	0.67	92.74	1.13	0	0.27	0.44	0.00	0.41	0.00		8.34		
7604	7603	Camino Del Sol	0.67	145.54	1.13	0	0.27	0.44	0.00	0.49	0.00		9.98		
7603	7608	Camino Del Sol	0.67	332.81	1.23	0	0.33	0.44	0.00	0.49	0.00		9.65		
7608	7602	Camino Del Sol	0.67	132.47	5.17	0	0.18	0.44	0.00	0.34	0.00		14.67		
7602	7601	Camino Del Sol	0.67	391.89	2.04	0	0.23	0.44	0.00	0.39	0.00		10.95		
7601	7600	Camino Del Sol	0.67	341.65	1.31	0	0.26	0.44	0.00	0.39	0.00		6.53		
7600	7588	Camino Del Sol	0.67	336.25	1.38	0	0.25	0.44	0.00	0.38	0.00		6.06		
7588	7587	Camino Del Sol	0.67	393.97	1.38	0	0.26	0.44	0.00	0.38	0.00		5.90		
7587	7586	Camino Del Sol	0.67	66.25	1.40	0	0.25	0.44	0.00	0.38	0.00		8.79		
7586	7577	Camino Del Sol	0.67	72.32	1.41	0	0.25	0.44	0.00	0.38	0.00		8.13		
7577	7576	Camino Del Sol	0.67	172.52	1.40	0	0.26	0.44	0.00	0.38	0.00		7.28		
7576	7585	Camino Del Sol	0.67	143.99	1.50	0	0.25	0.44	0.00	0.38	0.00		12.99		
7585	7582	Camino Del Sol	0.67	98.28	1.56	0	0.25	0.44	0.00	0.37	0.00		9.53		
7582	7581	Camino Del Sol	0.67	252.52	1.49	0	0.25	0.44	0.00	0.38	0.00		7.38		
7581	7572	Camino Del Sol	0.67	346.76	1.49	0	0.25	0.44	0.00	0.38	0.00		4.58		
7572	7578	Camino Del Sol	0.67	91.30	1.49	0	0.25	0.44	0.00	0.38	0.00		7.15		
7578	7579	Camino Del Sol	0.67	171.60	1.49	0	0.25	0.44	0.00	0.38	0.00		6.63		
7579	2874	East H Street	0.67	114.64	1.61	0	0.24	0.44	0.00	0.43	0.00		5.82		
2874	2867	East H Street	0.67	402.11	3.79	0	0.29	0.73	0.00	0.43	0.00		6.71		
2867	2857	East H Street	1.00	403.12	4.17	0	0.21	0.73	0.00	0.40	0.00		7.70		
2857	2847	East H Street	1.00	279.68	1.01	0	0.40	0.73	0.00	0.40	0.00		8.25		
2847	2829	East H Street	1.00	194.85	8.45	0	0.18	0.73	0.00	0.21	0.00		11.18		
2829	2794	East H Street	1.00	325.60	5.00	0	0.21	0.73	0.00	0.21	0.00		8.39		
2794	2736	East H Street	1.00	398.59	5.67	0	0.20	0.73	0.00	0.22	0.00		7.94		
2736	2678	East H Street	1.00	394.00	3.94	0	0.22	0.73	0.00	0.29	0.00		8.40		
2678	2644	East H Street	1.00	341.13	3.34	0	0.29	0.92	0.00	0.29	0.00		8.27		
2644	2636	East H Street	1.00	365.97	6.70	0	0.21	0.92	0.00	0.53	0.00		9.12		
2636	2637	East H Street	1.00	107.00	1.21	0	0.53	2.15	0.00	0.56	0.00		20.16		
2637	2639	East H Street	1.00	402.02	1.19	0	0.56	2.28	0.00	0.56	0.00		17.85		
2639	2640	East H Street	1.00	200.16	1.33	0	0.54	2.28	0.00	0.54	0.00		15.49		
2640	2630	East H Street	1.00	225.18	1.38	0	0.53	2.28	0.00	0.54	0.00		16.17		
2630	2615	East H Street	1.00	399.21	1.30	0	0.54	2.28	0.00	0.54	0.00		17.26		
2615	2592	East H Street	1.00	396.35	1.36	0	0.53	2.28	0.00	0.67	0.00		18.47		
2592	2586	East H Street	1.25	247.18	0.40	0	0.67	2.28	0.00	0.54	0.00		19.73		
2586	2580	East H Street	1.25	249.57	0.40	0	0.67	2.28	0.00	0.54	0.00		17.72		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2580	2563	East H Street	1.25	194.48	0.40	0	0.67	2.28	0.00	0.54	0.00		16.71		
2563	2549	East H Street	1.25	307.98	0.40	0	0.67	2.28	0.00	0.64	0.00		15.49		
2549	2517	East H Street	1.25	326.53	0.40	0	0.81	2.89	0.00	0.64	0.00		13.58		
2517	2486	East H Street	1.25	256.35	0.50	0	0.72	2.89	0.00	0.58	0.00		11.48		
2486	2449	East H Street	1.25	211.76	0.50	0	0.72	2.89	0.00	0.58	0.00		14.26		
2449	2414	East H Street	1.25	237.62	0.50	0	0.72	2.89	0.00	0.62	0.00		17.32		
2414	2355	East H Street	1.25	326.27	0.40	0	0.78	2.89	0.00	0.67	0.00		20.83		
2355	2330	East H Street	1.25	359.67	0.40	0	0.84	3.23	0.00	0.67	0.00		21.69		
2330	2331	East H Street	1.25	358.53	0.40	0	0.84	3.23	0.00	0.67	0.00		23.13		
2331	2333	East H Street	1.25	91.08	21.94	0	0.28	3.23	0.00	0.54	0.00		21.93		
2333	2371	East H Street	1.25	294.09	1.67	0	0.68	3.23	0.00	0.54	0.00		37.71		
2371	2336	East H Street	1.25	476.32	8.19	0	0.35	3.23	0.00	0.44	0.00		42.66		
2336	2219	ROW	1.25	445.37	1.49	0	0.55	3.23	0.00	0.45	0.00		8.76		
2219	2107	ROW	1.25	411.79	1.46	0	0.56	3.23	0.00	0.45	0.00		6.79		
2107	1967	ROW	1.25	404.99	1.48	0	0.56	3.23	0.00	0.45	0.00		8.39		
1967	1806	ROW	1.25	353.37	1.70	0	0.56	3.23	0.00	0.44	0.00		7.39		
1806	7661	ROW	1.50	408.37	1.47	0	0.51	3.23	0.00	0.51	0.00		9.44		
7661	1490	ROW	1.50	335.72	0.54	0	0.77	3.23	0.00	0.51	0.00		9.68		
1490	7647	ROW	1.50	294.32	1.44	0	0.52	3.23	0.00	0.41	0.00		10.23		
7647	7892	Plaza Bonita Road	1.50	23.59	1.27	0	0.61	3.23	0.00	0.57	0.00		9.89		
7892	7643	Plaza Bonita Road	1.50	281.46	0.30	0	0.85	3.23	0.00	0.57	0.00		10.20		
7643	1211	Plaza Bonita Road	1.50	339.52	0.50	0	0.69	3.23	0.00	0.46	0.00		11.58		
1211	1165	Plaza Bonita Road	1.50	400.44	0.50	0	0.69	3.23	0.00	0.48	0.00		16.41		
1165	1102	Plaza Bonita Road	1.50	397.62	0.50	0	0.71	3.23	0.00	0.48	0.00		9.75		
1102	1074	Plaza Bonita Road	1.50	226.00	0.67	0	0.66	3.43	0.00	0.50	0.00		9.79		
1074	1054	Plaza Bonita Road	1.67	85.42	0.43	0	0.75	3.69	0.00	0.56	0.00		9.18		
1054	963	Plaza Bonita Road	1.67	351.69	0.20	0	0.97	3.69	0.00	0.58	0.00		8.29		
963	923	Plaza Bonita Road	1.67	142.12	0.42	0	0.76	3.69	0.00	0.45	0.00		8.41		
1080	1110	C Street	1.00	299.28	0.23	0	0.62	1.22	0.00	0.63	0.00		6.38		
1110	1119	C Street	1.00	134.50	0.23	0	0.63	1.22	0.00	0.68	0.00		6.37		
1119	1116	Fifth Avenue	1.00	9.72	0.21	0	0.68	1.22	0.00	0.68	0.00		6.32		
1116	1001	Fifth Avenue	1.00	322.06	0.23	0	0.63	1.22	0.00	0.63	0.00		16.39		
1001	914	Fifth Avenue	1.00	304.63	0.23	0	0.63	1.22	0.00	0.63	0.00		5.63		
914	883	Fifth Avenue	1.00	106.10	0.24	0	0.62	1.22	0.00	0.63	0.00		9.34		
883	836	Fifth Avenue	1.00	154.96	0.23	0	0.63	1.22	0.00	0.63	0.00		12.08		
836	848	Fifth Avenue	1.00	55.36	0.23	0	0.59	1.22	0.00	0.59	0.00		9.97		
G Street															
5359	5362	G Street	1.00	72.19	2.44	0	0.32	0.65	0.00	0.36	0.00		12.66		
5362	5371	G Street	1.00	374.07	0.53	0	0.36	0.65	0.00	0.36	0.00		13.89		
5371	5381	G Street	1.00	375.37	0.68	0	0.32	0.65	0.00	0.32	0.00		15.30		
5381	5385	G Street	1.00	373.56	0.68	0	0.32	0.65	0.00	0.32	0.00		14.85		
5385	5388	G Street	1.00	148.46	2.18	0	0.24	0.65	0.00	0.46	0.00		14.51		
5291	5290	Third Avenue	1.00	169.13	2.23	0	0.30	1.03	0.00	0.55	0.00		9.24		
5290	5308	Third Avenue	1.00	274.90	0.28	0	0.55	1.02	0.00	0.55	0.00		11.97		
5308	5316	Alley	1.00	358.29	0.26	0	0.54	1.03	0.00	0.74	0.00		11.74		
5316	5301	Alley	1.00	192.55	0.30	0	0.74	1.01	0.00	1.17	0.00		15.36	192.6	192.6
5301	5299	Alley	1.00	127.53	0.30	0	1.17	1.01	0.00	1.45	2.21	0.2	9.86	127.5	127.5
5299	5300	Alley	1.00	162.94	0.32	0	1.45	1.01	0.00	1.84	4.17	0.4	9.11	162.9	162.9

Ultimate Conditions, Wet Weather
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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5300	5298	Center Street	1.00	34.55	0.26	0	1.84	1.01	0.00	1.90	14.29	0.8	9.09	34.5	34.5
5298	5314	Center Street	1.00	629.88	0.02	0	1.90	1.35	0.00	1.90	14.87	0.9	9.12	629.9	629.9
5314	5369	Fourth Avenue	1.00	677.01	0.17	0	0.76	1.35	0.00	0.85	0.00		12.81		
5369	5388	Fourth Avenue	1.00	323.55	0.16	0	0.85	1.35	0.00	0.85	0.00		13.41		
5388	5397	G Street	1.25	451.43	1.14	0	0.46	1.98	0.00	0.37	0.00		16.52		
5397	5402	G Street	1.25	440.33	1.17	0	0.46	1.98	0.00	0.37	0.00		15.07		
5402	5405	G Street	1.25	417.09	1.20	0	0.45	1.98	0.00	0.45	0.00		14.23		
5405	5406	G Street	1.25	11.03	1.18	0	0.56	1.98	0.00	0.45	0.00		13.38		
5348	5372	Fifth Avenue	1.00	333.40	0.12	0	0.40	0.41	0.00	0.40	0.00		12.02		
5372	5396	Fifth Avenue	1.00	327.52	0.12	0	0.39	0.41	0.00	0.44	0.00		8.42		
5396	5406	Fifth Avenue	1.00	324.58	0.12	0	0.44	0.41	0.00	0.44	0.00		10.57		
5406	5416	G Street	1.25	438.23	1.33	0	0.49	2.39	0.00	0.46	0.00		13.43		
5416	5420	G Street	1.25	438.23	0.70	0	0.58	2.39	0.00	0.71	0.00		14.68		
5420	2970	G Street	1.25	423.91	0.42	0	0.88	2.39	0.00	0.71	0.00		13.46		
2210	2310	Broadway	1.00	337.33	0.16	0	0.67	1.12	0.00	0.67	0.00		16.84		
2310	2415	Broadway	1.00	330.97	0.16	0	0.67	1.12	0.00	0.67	0.00		16.68		
2415	2502	Broadway	1.00	331.27	0.16	0	0.67	1.12	0.00	0.73	0.00		15.81		
2502	2571	Broadway	1.00	335.66	0.16	0	0.73	1.11	0.00	0.73	0.00		15.68		
2571	2570	Broadway	1.00	57.40	0.16	0	0.59	1.11	0.00	0.59	0.00		15.05		
2570	2643	Broadway	1.25	313.85	0.09	0	0.69	1.11	0.00	0.58	0.00		15.54		
2643	2653	Broadway	1.25	30.28	0.07	0	0.72	1.11	0.00	0.58	0.00		14.44		
2653	2743	Broadway	1.25	315.21	0.07	0	0.72	1.11	0.00	0.58	0.00		14.32		
2743	2828	Broadway	1.25	330.92	0.08	0	0.71	1.11	0.00	0.57	0.00		13.10		
2828	2903	Broadway	1.25	341.24	0.08	0	0.72	1.11	0.00	0.60	0.00		12.35		
2903	2970	Broadway	1.25	312.59	0.08	0	0.75	1.23	0.00	0.60	0.00		12.04		
2970	2981	G Street	1.50	50.70	7.73	0	0.36	3.61	0.00	0.32	0.00		11.59		
2650	2770	Broadway	0.67	421.31	0.12	0	6.13	0.91	0.00	9.19	16.98	5.5	0.87	421.3	421.3
2770	2869	Broadway	0.67	442.47	0.13	0	4.43	0.91	0.00	6.64	15.78	3.8	2.57	442.5	442.5
2869	2901	Broadway	0.67	132.87	0.17	0	2.63	0.91	0.00	3.94	15.06	2.0	4.37	132.9	132.9
2901	2978	Broadway	0.67	332.62	0.17	0	2.11	0.91	0.00	3.17	14.91	1.4	4.89	332.6	332.6
2978	2980	Broadway	0.67	3.28	0.30	0	0.82	0.91	0.00	1.24	5.84	0.2	6.18	3.3	3.3
2980	2981	Broadway	0.67	4.00	0.25	0	0.68	0.91	0.00	1.02	1.01	0.0	6.32	4.0	4.0
2981	2982	G Street	1.50	11.70	9.66	0	0.48	4.52	0.00	0.51	0.00		15.54		
5359	5361	G Street	0.83	43.13	0.28	0	0.32	0.35	0.00	0.39	0.00		12.66		
5361	5363	G Street	0.83	151.13	0.30	0	0.32	0.35	0.00	0.39	0.00		12.78		
5363	5373	G Street	0.83	487.28	0.30	0	0.29	0.35	0.00	0.42	0.00		13.27		
5373	5391	G Street	0.83	661.94	0.30	0	0.35	0.35	0.00	0.42	0.00		12.37		
5391	5395	G Street	1.00	214.84	0.64	0	0.34	0.69	0.00	0.34	0.00		15.65		
5395	5398	G Street	1.00	445.24	0.64	0	0.34	0.69	0.00	0.34	0.00		14.09		
5398	5408	G Street	1.00	659.69	0.64	0	0.34	0.69	0.00	0.34	0.00		10.87		
5408	5418	G Street	1.00	660.28	0.56	0	0.35	0.69	0.00	0.35	0.00		12.95		
5418	2976	G Street	1.00	626.19	0.55	0	0.35	0.69	0.00	0.49	0.00		13.79		

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U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3474	3426	Broadway	1.00	141.09	0.35	0	0.26	0.32	0.00	0.30	0.00		6.74		
3426	3283	Broadway	1.00	415.63	0.20	0	0.30	0.32	0.00	0.30	0.00		6.70		
3283	3234	Broadway	1.00	125.52	0.20	0	0.30	0.32	0.00	0.30	0.00		6.70		
3234	3208	Broadway	1.00	103.11	0.20	0	0.30	0.32	0.00	0.30	0.00		6.70		
3208	3207	Broadway	1.00	95.27	0.20	0	0.30	0.32	0.00	0.30	0.00		6.70		
3207	5512	Broadway	1.00	199.11	0.20	0	0.30	0.32	0.00	0.30	0.00		6.70		
5512	3097	Broadway	1.00	125.20	0.20	0	0.30	0.32	0.00	0.33	0.00		6.70		
3097	3057	Broadway	1.00	167.38	0.20	0	0.33	0.32	0.00	0.33	0.00		6.67		
3057	2976	Broadway	1.00	335.18	0.42	0	0.23	0.32	0.00	0.28	0.00		6.77		
2976	2975	G Street	1.00	13.84	0.29	0	0.49	1.01	0.00	0.49	0.00		11.55		
2975	2984	G Street	1.50	50.32	7.81	0	0.19	1.01	0.00	0.15	0.00		11.78		
2984	2982	G Street	1.50	14.31	7.69	0	0.23	1.01	0.00	0.51	0.00		15.87		
2982	NewMH12	G Street	1.50	616.96	0.56	0	0.76	4.51	0.00	0.61	0.00		16.26		
NewMH12	NewMH4	G Street	2.25	1365.09	0.50	0	0.96	8.29	0.00	0.51	0.00		16.64		
2778	2799	F Street	1.00	261.18	0.34	0	0.66	1.59	0.00	0.71	0.00		6.34		
2799	2838	Private Road	1.00	160.57	0.28	0	0.71	1.59	0.00	0.74	0.00		16.54		
2838	2837	Private Road	1.00	74.28	0.24	0	0.74	1.59	0.00	0.74	0.00		16.96		
2837	2913	Private Road	1.00	377.26	0.25	0	0.74	1.59	0.00	0.80	0.00		17.14		
2913	3001	Private Road	1.00	391.22	0.24	0	0.80	1.59	0.00	0.80	0.00		13.02		
3001	3094	Private Road	1.00	374.40	0.32	0	0.63	1.59	0.00	0.93	0.00		13.13	374.4	
3094	NewMH4	G Street	1.25	5.00	2.06	0	1.06	1.59	0.00	0.92	0.00		3.29	5.0	
NewMH4	NewMH3	G Street	2.25	262.09	0.50	0	1.15	9.87	0.00	0.51	0.00		12.25		
NewMH3	3119	G Street	1.50	51.11	0.84	0	0.80	5.19	0.00	0.62	0.00		12.42		
3119	3142	G Street	1.50	401.23	0.42	0	1.04	5.19	0.00	0.69	0.00		13.46		
3142	NewMH2	G Street	1.50	58.24	0.68	0	0.88	5.22	0.00	0.71	0.00		8.86		
NewMH3	N590	G Street	1.75	60.23	0.50	0	0.80	4.68	0.00	0.51	0.00		12.42		
N590	N593	G Street	1.75	389.32	0.36	0	1.00	4.68	0.00	0.57	0.00		13.17		
N593	NewMH2	G Street	1.75	61.03	1.33	0	0.60	4.68	0.00	0.61	0.00		9.91		
NewMH2	NewMH1B	G Street	2.25	256.00	0.50	0	1.06	9.90	0.00	0.50	0.00		6.97		
NewMH1B	3169	G Street	2.25	20.33	0.50	0	1.13	9.90	0.00	0.50	0.00		4.88		
3169	NewMH1A	G Street	2.25	50.21	0.25	0	1.28	10.30	0.00	0.57	0.00		5.08		
NewMH1A	BeginVault	G Street	2.00	8.00	0.22	0	1.24	10.30	0.00	0.62	0.00		5.04		
BeginVault	3170	G Street	2.00	11.66	0.26	0	1.06	10.30	0.00	0.53	0.00		5.24		
3170	3172	G Street	2.00	45.00	3.29	0	0.75	10.30	0.00	0.38	0.00		3.48		
3172	3148	G Street	2.00	92.49	7.89	0	0.54	10.30	0.00	0.57	0.00		3.69		
Telegraph															
MH34	MH35	J Street	1.75	367.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.11		
MH35	3371	J Street	1.75	378.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.47		
3371	3425	J Street	0.67	439.74	1.89	0	0.27	0.59	0.00	0.48	0.00		6.73		
3425	3450	J Street	0.67	203.46	1.14	0	0.32	0.59	0.00	0.52	0.00		6.68		
3450	3473	J Street	0.67	237.31	1.13	0	0.34	0.61	0.00	0.52	0.00		6.66		
3473	3519	J Street	0.67	440.73	1.57	0	0.30	0.61	0.00	0.45	0.00		6.70		

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3519	3527	J Street	0.67	42.48	1.65	0	0.29	0.61	0.00	0.66	0.00		6.71		
3371	3362	J Street	1.75	7.81	191.32	0	0.27	5.99	0.00	0.58	0.00		6.73		
3362	3420	J Street	1.75	451.55	0.37	0	1.01	6.03	0.00	0.58	0.00		19.84		
3420	3472	J Street	1.75	447.18	0.36	0	1.02	6.03	0.00	0.58	0.00		14.48		
3472	3514	J Street	1.75	424.63	0.42	0	1.00	6.03	0.00	0.57	0.00		11.11		
3514	3527	J Street	1.50	42.94	2.47	0	0.63	6.05	0.00	0.50	0.00		6.95		
3527	3570	J Street	1.50	398.57	1.59	0	0.75	6.66	0.00	0.54	0.00		7.39		
3570	3604	J Street	1.50	441.16	1.30	0	0.81	6.79	0.00	0.54	0.00		6.66		
3604	3660	J Street	1.50	440.17	1.28	0	0.81	6.79	0.00	0.54	0.00		7.89		
3660	3698	J Street	1.50	335.37	1.28	0	0.81	6.79	0.00	0.54	0.00		7.53		
3698	3733	J Street	1.50	325.18	1.28	0	0.81	6.79	0.00	0.56	0.00		7.33		
3733	3766	J Street	1.50	325.54	1.28	0	0.83	6.79	0.00	0.56	0.00		7.48		
3766	3812	J Street	1.50	316.28	1.34	0	0.80	6.79	0.00	0.54	0.00		7.18		
3812	3819	J Street	1.50	51.98	0.88	0	0.91	6.79	0.00	0.61	0.00		7.05		
3819	3843	J Street	1.50	263.19	0.88	0	0.92	6.79	0.00	0.61	0.00		6.92		
3843	3862	J Street	1.50	344.55	1.74	0	0.75	6.79	0.00	0.50	0.00		6.58		
3862	3875	J Street	1.50	153.38	1.80	0	0.73	6.79	0.00	0.49	0.00		8.59		
3875	3888	J Street	1.50	184.41	1.79	0	0.73	6.79	0.00	0.56	0.00		9.31		
3888	3893	J Street	1.50	73.53	1.75	0	0.83	6.79	0.00	0.60	0.00		10.06		
3893	3922	J Street	1.50	273.71	1.75	0	0.81	7.06	0.00	0.60	0.00		9.46		
3922	3938	J Street	1.49	330.13	1.50	0	0.82	7.23	0.00	0.58	0.00		7.14		
3938	3961	J Street	1.50	325.45	1.52	0	0.80	7.23	0.00	0.57	0.00		5.61		
3961	3980	J Street	1.50	333.96	1.48	0	0.81	7.23	0.00	0.57	0.00		6.31		
3980	4001	J Street	1.50	330.80	1.50	0	0.81	7.23	0.00	0.58	0.00		7.26		
4001	4025	J Street	1.50	345.46	1.42	0	0.84	7.57	0.00	0.58	0.00		8.93		
4025	4038	J Street	1.50	350.44	1.40	0	0.85	7.57	0.00	0.66	0.00		8.82		
4038	4066	J Street	1.50	329.81	1.48	0	0.99	7.57	0.00	0.66	0.00		9.07		
4066	4075	J Street	1.50	276.13	4.18	0	0.62	7.57	0.00	0.59	0.00		8.58		
4075	4080	J Street	1.50	72.18	1.25	0	0.88	7.57	0.00	0.59	0.00		14.86		
4080	4097	J Street	1.50	317.96	1.25	0	0.88	7.57	0.00	0.59	0.00		14.51		
4097	4114	J Street	1.50	231.57	1.49	0	0.89	7.66	0.00	0.59	0.00		12.98		
4114	4121	J Street	1.75	82.58	1.51	0	0.76	7.66	0.00	0.44	0.00		13.56		
4121	4131	J Street	1.75	145.94	1.51	0	0.76	7.66	0.00	0.52	0.00		13.91		
4131	4139	J Street	1.75	107.68	1.00	0	0.90	7.66	0.00	0.54	0.00		14.37		
4139	4153	J Street	1.75	220.46	1.01	0	0.86	7.66	0.00	0.54	0.00		14.18		
4153	4158	J Street	1.75	33.60	1.01	0	0.89	7.66	0.00	0.60	0.00		13.68		
4158	4172	J Street	1.75	256.85	1.00	0	0.96	7.66	0.00	0.60	0.00		13.55		
4172	4187	J Street	1.75	259.33	0.99	0	0.90	7.66	0.00	0.87	0.00		13.09	259.3	
3588	3603	J Street	0.67	221.13	1.18	0	0.07	0.03	0.00	0.11	0.00		6.93		
3603	3658	J Street	0.67	440.29	1.24	0	0.07	0.03	0.00	0.11	0.00		8.00		
3658	3692	J Street	0.67	334.34	1.34	0	0.06	0.03	0.00	0.11	0.00		7.47		
3692	3731	J Street	0.67	327.04	1.26	0	0.07	0.03	0.00	0.11	0.00		7.43		
3731	3764	J Street	0.67	325.10	1.29	0	0.06	0.03	0.00	0.11	0.00		7.57		
3764	3810	J Street	0.67	315.94	1.34	0	0.07	0.03	0.00	0.11	0.00		7.26		
3810	3842	J Street	0.83	324.89	1.16	0	0.06	0.03	0.00	0.08	0.00		11.01		
3842	3845	J Street	0.83	84.08	1.03	0	0.07	0.03	0.00	0.08	0.00		6.76		
3845	3872	J Street	0.83	403.37	1.31	0	0.06	0.03	0.00	0.12	0.00		6.64		
3872	3891	J Street	0.83	257.42	1.55	0	0.10	0.07	0.00	0.12	0.00		7.90		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3891	3919	J Street	0.83	274.03	2.69	0	0.08	0.07	0.00	0.11	0.00		7.42		
3919	3947	J Street	1.00	440.97	1.60	0	0.09	0.07	0.00	0.10	0.00		7.28		
3947	3973	J Street	1.00	429.70	1.53	0	0.10	0.07	0.00	0.10	0.00		6.83		
3973	3999	J Street	1.00	450.77	1.38	0	0.09	0.07	0.00	0.13	0.00		8.41		
3999	4021	J Street	1.00	330.00	0.54	0	0.13	0.07	0.00	0.13	0.00		9.08		
4021	4036	J Street	1.00	329.25	1.58	0	0.10	0.07	0.00	0.10	0.00		6.40		
4036	4052	J Street	1.00	240.11	2.83	0	0.08	0.07	0.00	0.09	0.00		7.12		
4052	4070	J Street	1.00	235.21	1.85	0	0.09	0.07	0.00	0.09	0.00		9.41		
4070	4074	J Street	1.00	165.40	2.21	0	0.08	0.07	0.00	0.17	0.00		9.77		
4074	4079	J Street	1.00	58.19	1.72	0	0.17	0.29	0.00	0.17	0.00		11.63		
4079	4095	J Street	1.00	317.23	2.11	0	0.16	0.29	0.00	0.19	0.00		11.34		
4095	4096	J Street	1.00	15.22	2.10	0	0.19	0.29	0.00	0.21	0.00		11.79		
4096	4113	J Street	1.00	223.82	0.89	0	0.21	0.29	0.00	0.21	0.00		11.79		
4113	4119	J Street	1.00	90.37	1.11	0	0.19	0.29	0.00	0.19	0.00		10.81		
4119	4129	J Street	1.00	140.10	1.03	0	0.19	0.29	0.00	0.28	0.00		10.81		
4129	4130	J Street	1.00	5.77	1.04	0	0.28	0.29	0.00	0.28	0.00		10.72		
4130	4134	J Street	1.00	107.68	0.62	0	0.22	0.29	0.00	0.22	0.00		10.78		
4134	4150	J Street	1.00	215.92	0.62	0	0.22	0.29	0.00	0.22	0.00		10.05		
4150	4151	J Street	1.00	4.67	4.28	0	0.21	0.29	0.00	0.24	0.00		8.59		
4151	4155	J Street	1.00	33.60	0.39	0	0.24	0.29	0.00	0.29	0.00		8.46		
4155	4171	J Street	1.00	257.27	0.38	0	0.29	0.29	0.00	0.29	0.00		8.11		
4171	4186	J Street	1.00	259.36	1.23	0	0.18	0.29	0.00	0.18	0.00		5.92		
4186	4187	J Street	1.00	3.80	172.37	0	0.09	0.00	0.00	0.00	0.00		5.91		
4187	4189	J Street	1.75	13.31	0.90	0	1.53	7.94	0.00	0.91	0.00		11.52	13.3	
5613	5614	Naples Street	1.00	341.50	0.81	0	0.45	1.32	0.00	0.59	0.00		16.25		
5614	5615	Naples Street	1.00	333.92	0.31	0	0.59	1.31	0.00	0.62	0.00		15.21		
5615	5718	Naples Street	1.00	313.81	0.31	0	0.62	1.31	0.00	0.62	0.00		14.87		
5718	5719	Naples Street	1.00	267.98	0.55	0	0.55	1.31	0.00	0.55	0.00		12.38		
5719	4460	Naples Street	1.00	66.53	0.93	0	0.43	1.31	0.00	0.55	0.00		10.47		
4460	4459	Naples Street	1.00	443.85	0.55	0	0.55	1.31	0.00	0.55	0.00		10.37		
4459	4466	Naples Street	1.00	434.36	0.95	0	0.43	1.31	0.00	0.43	0.00		7.97		
4466	4475	Naples Street	1.00	191.36	0.95	0	0.43	1.31	0.00	0.46	0.00		7.97		
4475	4483	Naples Street	1.00	252.01	0.95	0	0.46	1.31	0.00	0.46	0.00		7.81		
4483	4493	Naples Street	1.00	444.13	1.34	0	0.39	1.31	0.00	0.39	0.00		7.71		
4493	4497	Naples Street	1.00	214.81	1.34	0	0.39	1.31	0.00	0.39	0.00		8.41		
4497	4501	Naples Street	1.00	220.03	1.34	0	0.39	1.31	0.00	0.39	0.00		7.76		
4501	4512	Naples Street	1.00	444.17	1.34	0	0.39	1.31	0.00	0.43	0.00		7.11		
4512	4526	Naples Street	1.00	440.25	2.45	0	0.43	2.12	0.00	0.50	0.00		10.57		
4526	4533	Naples Street	1.00	200.22	1.42	0	0.50	2.12	0.00	0.50	0.00		10.50		
4533	4542	Naples Street	1.00	246.39	1.42	0	0.50	2.12	0.00	0.50	0.00		10.95		
4542	4548	Naples Street	1.00	159.15	1.44	0	0.50	2.12	0.00	0.53	0.00		11.50		
4548	4555	Naples Street	1.00	277.90	1.44	0	0.53	2.12	0.00	0.53	0.00		11.47		
4555	4565	Naples Street	1.00	440.76	1.97	0	0.45	2.12	0.00	0.48	0.00		11.55		
4565	4578	Naples Street	1.00	440.88	1.61	0	0.48	2.12	0.00	0.52	0.00		14.52		
4578	4581	Naples Street	1.00	97.28	1.61	0	0.52	2.12	0.00	0.52	0.00		13.66		
4581	4590	Naples Street	1.00	342.85	2.53	0	0.42	2.12	0.00	0.54	0.00		13.58		
4590	4600	Naples Street	1.00	351.12	1.08	0	0.54	2.12	0.00	0.62	0.00		11.86		
4600	4604	Naples Street	1.00	89.42	0.72	0	0.62	2.12	0.00	0.62	0.00		11.98		
4604	4610	Naples Street	1.00	219.27	0.72	0	0.62	2.12	0.00	0.64	0.00		12.04		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4610	4616	Naples Street	1.00	230.66	0.72	0	0.64	2.12	0.00	0.64	0.00		12.18		
4616	4626	Naples Street	1.00	410.65	0.86	0	0.58	2.12	0.00	0.58	0.00		12.42		
4626	4639	Naples Street	1.00	378.78	0.86	0	0.58	2.12	0.00	0.59	0.00		14.42		
4639	4644	Naples Street	1.00	315.77	0.86	0	0.59	2.12	0.00	0.59	0.00		13.01		
4644	4655	Naples Street	1.00	344.66	0.86	0	0.58	2.12	0.00	0.58	0.00		13.82		
4655	4662	Naples Street	1.00	345.73	0.86	0	0.58	2.12	0.00	0.62	0.00		14.42		
4662	4669	Naples Street	1.00	353.33	0.88	0	0.62	2.12	0.00	0.62	0.00		13.98		
4669	4673	Naples Street	1.25	264.22	0.79	0	0.53	2.12	0.00	0.55	0.00		14.87		
4673	4642	Industrial Boulevard	1.25	443.44	0.31	0	0.69	2.12	0.00	0.56	0.00		13.31		
4642	4607	Industrial Boulevard	1.25	443.70	0.30	0	0.70	2.12	0.00	0.56	0.00		16.30		
4607	4567	Industrial Boulevard	1.25	437.53	0.30	0	0.70	2.12	0.00	0.80	0.00		14.30		
4508	4519	Moss Street	0.67	310.70	0.39	0	6.61	1.16	0.00	9.92	11.60	5.9	17.37	310.7	310.7
4519	4529	Moss Street	0.67	324.82	0.41	0	5.25	1.15	0.00	7.88	10.89	4.6	14.43	324.8	324.8
4529	4536	Moss Street	0.67	322.72	0.40	0	3.84	1.15	0.00	5.77	11.01	3.2	14.18	322.7	322.7
4536	4551	Moss Street	0.67	344.99	0.41	0	2.32	1.15	0.00	3.48	10.37	1.7	13.48	345.0	345.0
4551	4562	Moss Street	0.83	362.06	0.44	0	0.66	1.15	0.00	0.80	0.00		10.05		
4562	4567	Moss Street	0.83	269.04	1.09	0	0.42	1.15	0.00	1.20	0.00		11.38	269.0	269.0
4567	4525	Industrial Boulevard	1.25	454.27	0.29	0	1.00	3.40	0.00	0.80	0.00		13.74		
4525	4492	Industrial Boulevard	1.25	427.21	0.31	0	0.97	3.40	0.00	0.79	0.00		11.63		
4492	4455	Industrial Boulevard	1.25	443.21	0.30	0	0.99	3.40	0.00	0.79	0.00		11.81		
4455	4409	Industrial Boulevard	1.25	443.56	0.30	0	0.99	3.40	0.00	0.84	0.00		10.61		
4409	4369	Industrial Boulevard	1.25	446.18	0.30	0	1.05	3.41	0.00	1.01	0.00		10.85	446.2	446.2
4369	4337	Industrial Boulevard	1.25	434.42	0.36	0	1.26	3.37	0.00	1.38	0.22	0.0	8.74	434.4	434.4
4337	4328	K Street	1.25	262.09	0.28	0	1.72	3.32	0.00	1.42	2.05	0.5	12.40	262.1	262.1
4328	4277	Colorado Avenue	1.25	497.59	0.30	0	1.77	3.82	0.00	1.42	2.46	0.5	9.89	497.6	497.6
4277	4243	Colorado Avenue	1.30	443.41	0.32	0	1.55	3.82	0.00	1.35	2.21	0.3	10.01	443.4	443.4
4243	4189	Colorado Avenue	1.25	372.58	0.28	0	1.75	3.82	0.00	1.40	3.78	0.5	8.42	372.6	372.6
4189	4207	J Street	2.00	281.50	0.32	0	1.59	11.99	0.00	0.79	0.00		11.58		
4207	4209	J Street	2.00	221.53	0.78	0	1.14	11.99	0.00	0.57	0.00		11.86		
4209	4233	J Street	2.00	414.75	0.91	0	1.08	11.99	0.00	0.54	0.00		5.92		
3294	3295	Bay Boulevard	1.50	306.37	0.18	0	0.18	0.11	0.00	0.12	0.00		5.80		
3295	3400	Bay Boulevard	1.50	310.84	0.26	0	0.15	0.12	0.00	0.12	0.00		4.88		
3400	3518	Bay Boulevard	1.50	344.16	0.22	0	0.17	0.11	0.00	0.12	0.00		6.16		
3518	3621	Bay Boulevard	1.50	328.42	0.29	0	0.17	0.12	0.00	0.12	0.00		6.43		
3621	3735	Bay Boulevard	1.50	329.51	0.29	0	0.17	0.11	0.00	0.12	0.00		5.88		
3735	3846	Bay Boulevard	1.75	330.83	0.17	0	0.19	0.12	0.00	0.42	0.00		5.83		
3578	3617	Between H Street & I Street	1.00	493.24	1.00	0	0.44	1.41	0.00	0.44	0.00		12.19		
3617	3639	Between H Street & I Street	1.00	121.91	1.03	0	0.43	1.41	0.00	0.44	0.00		9.98		
3639	3649	Between H Street & I Street	1.00	129.02	0.96	0	0.44	1.41	0.00	0.44	0.00		6.56		
3649	3676	Between H Street & I Street	1.00	259.96	1.00	0	0.44	1.41	0.00	0.44	0.00		6.56		
3676	3708	Between H Street & I Street	1.00	275.55	1.00	0	0.44	1.41	0.00	0.48	0.00		6.56		
3708	3736	Between H Street & I Street	1.00	262.60	0.98	0	0.48	1.41	0.00	0.48	0.00		6.52		
3736	3763	Between H Street & I Street	1.00	254.15	1.64	0	0.38	1.40	0.00	0.52	0.00		6.62		
3763	3818	Between H Street & I Street	1.25	389.87	0.37	0	0.52	1.40	0.00	0.45	0.00		6.48		
3818	3846	Between H Street & I Street	1.25	389.24	0.35	0	0.56	1.40	0.00	0.45	0.00		6.57		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3846	3927	Bay Boulevard	1.75	330.47	0.06	0	0.73	1.50	0.00	0.42	0.00		5.34		
3927	3987	Bay Boulevard	1.75	331.07	0.12	0	0.64	1.50	0.00	0.37	0.00		6.13		
3987	4048	Bay Boulevard	1.75	331.46	0.18	0	0.56	1.50	0.00	0.44	0.00		6.60		
4048	4110	Bay Boulevard	1.75	333.27	0.05	0	0.77	1.50	0.00	0.44	0.00		8.48		
4110	4181	Bay Boulevard	1.75	331.70	0.06	0	0.74	1.50	0.00	0.42	0.00		8.68		
4181	4230	Bay Boulevard	1.75	326.05	0.16	0	0.63	1.50	0.00	0.36	0.00		7.48		
4230	4233	Bay Boulevard	1.00	24.84	6.04	0	0.29	1.50	0.00	0.97	0.00		10.71	24.8	
4474	4432	Bay Boulevard	1.00	432.31	0.30	0	0.27	0.32	0.00	0.27	0.00		10.15		
4432	4391	Bay Boulevard	1.00	447.94	0.30	0	0.27	0.32	0.00	0.27	0.00		8.95		
4391	4351	Bay Boulevard	1.00	434.79	0.30	0	0.27	0.32	0.00	0.27	0.00		6.79		
4351	4308	Bay Boulevard	1.00	439.89	0.30	0	0.27	0.32	0.00	0.30	0.00		6.09		
4308	4270	Bay Boulevard	1.00	418.02	0.22	0	0.30	0.32	0.00	0.30	0.00		5.38		
4270	4259	Bay Boulevard	1.00	170.70	0.22	0	0.29	0.32	0.00	0.33	0.00		4.31		
4259	4233	Bay Boulevard	1.00	295.92	0.22	0	0.33	0.32	0.00	0.33	0.00		4.65		
4233	BeginCV2	J Street	2.50	40.95	0.22	0	1.47	13.93	0.00	0.59	0.00		10.03		
BeginCV2	EndCV2	J Street	2.50	11.67	0.26	0	1.43	13.93	0.00	0.57	0.00		9.66		
EndCV2	4223	J Street	2.50	6.02	1.33	0	1.32	13.93	0.00	0.53	0.00		9.80		
4223	4219	J Street	2.50	11.67	0.26	0	1.43	13.93	0.00	0.57	0.00		9.66		
Main Street															
6279	4892	ROW	1.00	556.68	0.43	0	0.38	0.67	0.00	0.38	0.00		4.49		
4892	4891	ROW	1.00	234.97	0.48	0	0.36	0.67	0.00	0.37	0.00		12.53		
4891	4930	ROW	1.00	383.50	0.43	0	0.37	0.67	0.00	0.37	0.00		7.33		
4930	6304	ROW	1.00	250.68	0.49	0	0.36	0.67	0.00	0.36	0.00		9.45		
6304	6303	Loma Lane	0.67	243.38	1.16	0	0.34	0.67	0.00	0.51	0.00		15.09		
6303	6301	Loma Lane	0.67	346.39	1.17	0	0.34	0.67	0.00	0.72	0.00		13.23		
6301	6299	Loma Lane	0.67	28.52	0.42	0	0.48	0.67	0.00	0.72	0.00		3.08		
6299	6300	Orange Avenue	0.67	133.50	0.40	0	0.48	0.67	0.00	0.72	0.00		3.03		
6300	6309	Orange Avenue	0.67	98.25	0.41	0	0.48	0.67	0.00	0.72	0.00		2.79		
6309	6306	Orange Avenue	0.67	135.04	0.41	0	0.48	0.67	0.00	0.73	0.00		2.62		
6306	6331	Jade Court	0.67	401.01	0.40	0	0.48	0.67	0.00	0.73	0.00		6.39		
6331	6326	Jade Court	0.67	399.40	0.40	0	0.48	0.67	0.00	0.73	0.00		3.32		
6326	6327	Jade Court	0.67	300.88	0.40	0	0.48	0.67	0.00	1.06	0.00		12.12	300.9	300.9
6327	6328	Jade Court	0.67	233.39	0.39	0	0.70	0.66	0.00	1.06	1.50	0.0	11.50	233.4	233.4
6328	5874	Tourmaline Street	0.67	398.02	1.50	0	0.31	0.66	0.00	0.47	0.00		6.59		
5874	5872	Tourmaline Street	0.67	141.52	1.50	0	0.31	0.66	0.00	0.47	0.00		6.69		
5872	5873	Hilltop Drive	0.67	281.51	10.00	0	0.19	0.66	0.00	0.39	0.00		6.81		
5873	5883	Hilltop Drive	0.67	350.64	2.99	0	0.26	0.66	0.00	0.39	0.00		17.28		
5883	5882	Main Street	0.83	301.03	1.32	0	0.33	0.82	0.00	0.39	0.00		10.10		
5882	5881	Main Street	0.83	379.03	1.33	0	0.33	0.82	0.00	0.54	0.00		7.07		
5881	5880	Main Street	0.83	345.03	0.43	0	0.45	0.82	0.00	0.55	0.00		7.00		
5880	5879	Main Street	0.83	122.04	0.40	0	0.46	0.82	0.00	0.85	0.00		6.48		
5879	5890	Main Street	0.83	218.51	0.40	0	0.71	1.29	0.00	0.85	0.00		6.72		
5890	5889	Main Street	0.83	334.04	0.99	0	0.49	1.29	0.00	0.59	0.00		6.82		
5889	5888	Main Street	0.83	340.53	1.35	0	0.42	1.29	0.00	0.55	0.00		7.20		
5888	5887	Main Street	0.83	334.03	1.15	0	0.46	1.29	0.00	0.55	0.00		7.77		
5887	5886	Main Street	0.83	318.02	1.31	0	0.42	1.29	0.00	0.56	0.00		6.64		
5886	5130	Main Street	0.83	333.02	1.17	0	0.47	1.29	0.00	0.56	0.00		7.75		
5130	5129	Main Street	0.83	332.02	1.52	0	0.45	1.29	0.00	0.62	0.00		6.65		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5129	5127	Main Street	0.83	327.04	0.97	0	0.52	1.45	0.00	2.69	0.00		6.62	327.0	327.0
5127	5126	Main Street	0.83	326.03	0.36	0	2.24	1.29	0.00	2.78	3.10	1.4	5.07	326.0	326.0
5126	5125	Main Street	0.83	344.04	0.21	0	2.32	1.29	0.00	2.78	6.75	1.5	4.16	344.0	344.0
5125	5124	Main Street	0.83	314.52	0.56	0	1.87	1.29	0.00	3.07	2.49	1.0	5.32	314.5	314.5
4753	4795	Second Avenue	1.25	352.98	0.67	0	0.52	1.69	0.00	0.49	0.00		6.48		
4795	4842	Second Avenue	1.25	319.60	0.67	0	0.61	1.68	0.00	0.52	0.00		6.39		
4842	4849	Quintard Street	1.25	198.09	0.67	0	0.65	1.69	0.00	0.84	0.00		14.32		
4849	4859	Quintard Street	1.25	225.76	0.95	0	1.05	1.66	0.00	2.45	0.00		11.29	225.8	225.8
4859	4864	Quintard Street	1.25	117.13	0.78	0	3.07	1.66	0.00	3.12	6.38	1.8	8.41	117.1	117.1
4864	4866	Quintard Street	1.25	103.53	0.78	0	3.90	1.66	0.00	3.72	12.32	2.7	8.31	103.5	103.5
4866	4897	Private Road	0.67	284.27	0.67	0	4.65	1.66	0.00	6.97	15.62	4.0	8.22	284.3	284.3
4867	4894	Private Road	0.67	275.92	0.67	0	0.18	0.16	0.00	0.44	0.00		12.66		
4894	4897	Private Road	1.00	12.15	0.66	Note (1)	0.29	-0.40	0.00	0.00	0.00		12.91		
4897	4948	Private Road	1.00	576.78	0.67	0	0.46	1.26	0.00	0.49	0.00		12.82		
4948	4945	Orange Avenue	1.00	371.38	0.52	0	0.49	1.26	0.00	0.60	0.00		13.64		
4945	4941	Orange Avenue	1.00	370.35	0.28	0	0.60	1.26	0.00	0.62	0.00		7.67		
4941	4957	Third Avenue	1.00	357.77	0.26	0	0.62	1.26	0.00	0.64	0.00		8.47		
4957	4979	Third Avenue	1.00	350.41	0.23	0	0.64	1.26	0.00	0.70	0.00		9.57		
4979	4999	Third Avenue	1.00	355.77	0.22	0	0.70	1.26	0.00	0.70	0.00		14.11		
4999	5036	Third Avenue	1.00	394.53	0.41	0	0.53	1.26	0.00	0.72	0.00		15.06		
5036	5035	Tremont Street	1.00	8.52	0.35	0	0.72	1.70	0.00	0.72	0.00		8.66		
4894	4924	Private Road	1.00	298.50	0.68	0	0.29	0.55	0.00	0.29	0.00		12.91		
4924	4946	Private Road	1.00	265.80	0.67	0	0.29	0.55	0.00	0.35	0.00		13.39		
4946	4947	Private Road	1.00	15.51	0.64	0	0.35	0.55	0.00	0.35	0.00		11.62		
4947	4944	Orange Avenue	1.00	343.19	0.52	0	0.31	0.55	0.00	0.37	0.00		13.76		
4944	4939	Orange Avenue	1.00	383.45	0.27	0	0.37	0.55	0.00	0.55	0.00		7.50		
4939	4940	Orange Avenue	1.00	7.35	0.27	0	0.55	0.55	0.00	0.55	0.00		8.37		
4940	4958	Third Avenue	1.00	367.92	0.26	0	0.55	1.10	0.00	0.59	0.00		8.39		
4958	4980	Third Avenue	1.00	350.76	0.23	0	0.59	1.10	0.00	0.62	0.00		9.50		
4980	5000	Third Avenue	1.00	355.90	0.22	0	0.62	1.10	0.00	0.62	0.00		14.07		
5000	5035	Third Avenue	1.00	384.04	0.41	0	0.52	1.10	0.00	0.52	0.00		14.95		
5035	5034	Tremont Street	1.00	296.01	1.21	0	0.60	2.81	0.00	0.67	0.00		8.64		
5034	5039	Tremont Street	1.00	15.70	1.21	0	0.67	1.57	0.00	0.82	0.00		6.46		
5039	5037	Tremont Street	1.00	347.54	0.25	0	0.82	1.58	0.00	0.82	0.00		6.20		
5034	5032	Tremont Street	1.00	361.00	0.25	0	0.67	1.24	0.00	0.67	0.00		6.46		
5032	5037	Tremont Street	1.00	9.70	1.62	0	0.50	1.24	0.00	0.57	0.00		8.23		
5037	5053	Fresno Avenue	1.00	371.40	2.07	0	0.57	2.93	0.00	0.61	0.00		8.32		
5053	5088	Fresno Avenue	1.00	370.88	1.33	0	0.61	3.03	0.00	1.57	0.00		7.58	370.9	370.9
5088	5092	Fresno Avenue	1.00	8.63	1.28	0	1.57	1.67	0.00	1.62	1.67	0.6	8.02	8.6	8.6
5092	5123	Fresno Avenue	1.00	378.13	0.40	0	1.62	1.63	0.00	2.37	1.80	0.6	8.00	378.1	378.1

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5088	5095	Fresno Avenue	1.00	11.60	0.36	0	1.57	1.27	0.00	1.58	1.67	0.6	8.02	11.6	11.6
5095	5124	Fresno Avenue	1.00	378.00	0.36	0	1.58	1.23	0.00	2.53	1.70	0.6	7.97	378.0	378.0
5124	5123	Main Street	0.83	8.55	2.11	0	2.56	2.46	0.00	3.07	8.42	1.7	6.38	8.5	8.5
5123	5122	Main Street	1.26	362.51	0.31	0	2.37	4.07	0.00	1.88	3.16	1.1	5.75	362.5	362.5
5122	5121	Main Street	1.25	350.51	0.92	0	2.12	4.06	0.00	3.21	2.74	0.9	7.11	350.5	350.5
5121	5119	Main Street	1.25	310.51	0.21	0	4.01	4.99	0.00	3.21	13.65	2.8	6.46	310.5	310.5
5119	5118	Main Street	1.25	345.01	0.28	0	2.85	4.99	0.00	2.28	7.45	1.6	6.27	345.0	345.0
5118	5117	Main Street	1.25	415.51	0.40	0	1.77	4.99	0.00	1.41	3.88	0.5	6.31	415.5	415.5
5117	5116	Main Street	1.25	411.51	0.52	0	1.16	4.99	0.00	0.93	0.00		6.59	411.5	
5116	5115	Main Street	1.25	400.51	0.66	0	1.13	5.03	0.00	0.90	0.00		6.94	400.5	
5115	5114	Main Street	1.25	400.04	0.88	0	0.91	5.03	0.00	1.37	0.00		7.61	400.0	400.0
5114	5113	Main Street	1.25	402.05	0.88	0	1.71	4.96	0.00	2.33	1.24	0.5	6.33	402.0	402.0
5113	5112	Main Street	1.25	398.05	0.87	0	2.91	4.95	0.00	3.27	2.91	1.7	5.46	398.1	398.1
5112	5111	Main Street	1.25	400.07	0.60	0	4.08	4.95	0.00	3.35	4.46	2.8	4.45	400.1	400.1
5111	5110	Main Street	1.25	277.03	0.36	0	4.19	4.95	0.00	3.35	7.82	2.9	4.23	277.0	277.0
5110	5109	Main Street	1.25	109.51	0.36	0	3.60	5.10	0.00	2.88	10.46	2.3	5.09	109.5	109.5
5109	5107	Main Street	1.25	392.56	0.32	0	3.32	5.10	0.00	2.66	13.33	2.1	5.48	392.6	392.6
5107	5106	Main Street	1.25	399.54	0.72	0	2.15	5.10	0.00	2.06	3.22	0.9	5.89	399.5	399.5
4595	4608	Oxford Street	1.00	440.65	0.42	0	0.46	1.00	0.00	0.46	0.00		15.59		
4608	4620	Oxford Street	1.00	440.97	0.42	0	0.46	1.00	0.00	0.46	0.00		10.94		
4620	4631	Oxford Street	1.00	440.61	0.42	0	0.46	1.00	0.00	0.47	0.00		12.04		
4631	4640	Oxford Street	1.00	344.36	0.67	0	0.47	1.30	0.00	0.47	0.00		8.13		
4640	4646	Oxford Street	1.00	332.82	0.66	0	0.47	1.30	0.00	0.58	0.00		7.93		
4646	4651	Oxford Street	1.00	111.17	0.32	0	0.58	1.30	0.00	0.64	0.00		7.62		
4651	4657	Oxford Street	1.00	209.71	0.33	0	0.64	1.30	0.00	0.64	0.00		7.57		
4657	4664	Oxford Street	1.00	326.32	0.83	0	0.44	1.30	0.00	0.68	0.00		7.81		
4664	4670	Oxford Street	1.00	270.98	0.25	0	0.68	1.30	0.00	0.68	0.00		6.18		
4670	4674	Oxford Street	1.00	372.42	0.53	0	0.50	1.30	0.00	0.65	0.00		8.25		
4674	4679	Oxford Street	1.00	324.74	0.53	0	0.65	1.30	0.00	0.65	0.00		10.06		
4679	4683	Oxford Street	1.00	351.98	4.20	0	0.29	1.30	0.00	0.30	0.00		2.44		
4683	4688	Oxford Street	1.00	342.82	3.64	0	0.30	1.30	0.00	0.50	0.00		6.71		
4688	4701	Oxford Street	1.00	325.73	0.54	0	0.50	1.30	0.00	0.59	0.00		8.00		
4701	4712	Oxford Street	1.00	310.47	0.59	0	0.59	1.30	0.00	0.59	0.00		6.28		
4712	4722	Oxford Street	1.00	314.61	2.60	0	0.32	1.30	0.00	1.16	0.00		5.79	314.6	314.6
4722	4726	Oxford Street	1.00	69.26	0.27	0	1.16	2.51	0.00	1.16	1.25	0.2	11.12	69.3	69.3
4726	4733	Oxford Street	1.00	400.65	0.51	0	1.03	2.51	0.00	1.24	0.48	0.0	11.44	400.6	400.6
4733	4749	Oxford Street	1.00	374.44	0.45	0	1.24	2.49	0.00	1.24	2.72	0.2	7.78	374.4	374.4
4749	4763	Oxford Street	1.00	321.58	0.95	0	0.66	2.49	0.00	0.66	0.00		8.05		
4763	4765	Oxford Street	1.00	53.60	1.32	0	0.59	2.49	0.00	0.99	0.00		8.86	53.6	
4765	4778	Oxford Street	1.25	407.41	0.16	0	0.99	2.49	0.00	0.80	0.00		8.78		
4778	4794	Oxford Street	1.25	363.32	0.15	0	1.00	2.49	0.00	0.80	0.00		5.11		
4794	4823	Industrial Boulevard	1.25	203.34	0.17	0	0.94	2.49	0.00	0.75	0.00		6.77		
4823	4828	Industrial Boulevard	1.25	35.08	0.17	0	0.63	1.21	0.00	0.51	0.00		9.52		
4828	4856	Industrial Boulevard	1.25	213.80	0.16	0	0.63	1.21	0.00	0.65	0.00		9.88		
4856	4893	Industrial Boulevard	1.25	350.19	0.17	0	0.81	1.99	0.00	0.66	0.00		11.85		
4893	4933	Industrial Boulevard	1.25	378.64	0.16	0	0.83	1.99	0.00	0.66	0.00		14.02		
4933	4950	Industrial Boulevard	1.25	334.24	0.16	0	0.82	1.99	0.00	0.66	0.00		14.13		

Ultimate Conditions, Wet Weather
North-West Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4950	4970	Industrial Boulevard	1.25	326.12	0.16	0	0.83	1.99	0.00	0.66	0.00		12.99		
4970	4987	Industrial Boulevard	1.25	329.04	0.16	0	0.82	1.99	0.00	0.71	0.00		15.00		
4987	5007	Industrial Boulevard	1.25	322.77	0.16	0	0.89	1.99	0.00	0.71	0.00		15.77		
5007	5045	Industrial Boulevard	1.00	446.39	1.05	0	0.53	1.99	0.00	0.70	0.00		15.52		
4823	4858	Industrial Boulevard	1.25	253.04	0.17	0	0.63	1.28	0.00	0.50	0.00		9.52		
4858	4895	Industrial Boulevard	1.25	350.94	0.25	0	0.55	1.28	0.00	0.62	0.00		12.29		
4895	4935	Industrial Boulevard	1.25	378.21	0.07	0	0.78	1.28	0.00	0.62	0.00		14.38		
4935	4949	Industrial Boulevard	1.25	328.81	0.16	0	0.62	1.28	0.00	0.58	0.00		14.30		
4949	4952	Industrial Boulevard	1.25	49.00	0.12	0	0.72	1.28	0.00	0.59	0.00		6.28		
4952	4972	Industrial Boulevard	1.25	280.81	0.16	0	0.74	1.70	0.00	0.59	0.00		12.65		
4972	4989	Industrial Boulevard	1.25	328.25	0.17	0	0.72	1.70	0.00	0.70	0.00		15.03		
4989	5006	Industrial Boulevard	1.25	322.09	0.11	0	0.87	1.70	0.00	0.70	0.00		15.78		
5006	5044	Industrial Boulevard	1.00	423.55	1.09	0	0.47	1.70	0.00	0.52	0.00		15.50		
5044	5045	Industrial Boulevard	1.00	26.29	1.03	0	0.52	1.70	0.00	0.70	0.00		14.66		
5045	5058	Industrial Boulevard	1.00	209.64	2.09	0	0.70	3.69	0.00	0.70	0.00		14.25		
5058	5079	Industrial Boulevard	1.00	241.76	2.16	0	0.69	3.68	0.00	2.81	0.00		6.31	241.8	241.8
5079	5106	Industrial Boulevard	1.00	444.64	1.05	0	2.81	3.68	0.00	2.85	3.56	1.8	4.19	444.6	444.6
5106	5144	Industrial Boulevard	1.48	429.64	0.51	0	3.00	8.77	0.00	2.03	3.94	1.5	5.35	429.6	429.6
5144	5155	Industrial Boulevard	1.50	235.26	0.47	0	1.99	8.77	0.00	1.33	4.00	0.5	6.73	235.3	235.3

Note (1) Adverse flow through pipe section. There is capacity in parrallel line, flow diversion alternatives should be addressed.

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Sweetwater															
1043	1156	East H Street	1.00	350.32	5.74	0	0.21	0.83	0.00	0.21	0.00		8.70		
1156	1283	East H Street	1.00	350.29	1.15	0	0.32	0.83	0.00	0.32	0.00		10.66		
1283	1393	East H Street	1.00	351.05	2.75	0	0.25	0.83	0.00	0.45	0.00		8.26		
1393	1384	East H Street	1.00	279.65	0.45	0	0.45	0.83	0.00	0.45	0.00		10.94		
1384	1345	Hampton Court	1.00	231.82	1.30	0	0.33	0.96	0.00	0.34	0.00		14.42		
1345	1346	Hampton Court	1.00	403.84	1.24	0	0.33	0.96	0.00	0.43	0.00		8.66		
1346	1350	Hampton Court	1.00	401.10	0.50	0	0.43	0.96	0.00	0.44	0.00		8.97		
1350	1300	ROW	1.00	422.56	0.47	0	0.44	0.96	0.00	0.50	0.00		8.96		
1300	1258	ROW	1.00	365.85	0.55	0	0.50	0.96	0.00	0.50	0.00		13.96		
1258	1245	ROW	1.00	151.37	1.98	0	0.30	0.96	0.00	0.53	0.00		10.03		
1245	1246	ROW	1.00	382.55	0.53	0	0.53	0.96	0.00	0.53	0.00		5.85		
1246	1129	Redlands Place	1.00	397.75	3.38	0	0.26	0.96	0.00	0.40	0.00		13.14		
1129	1105	Redlands Place	1.00	272.79	1.00	0	0.40	0.96	0.00	0.40	0.00		11.61		
1105	1073	Redlands Place	1.00	241.77	2.13	0	0.29	0.96	0.00	0.32	0.00		8.91		
1073	1010	Redlands Place	1.00	241.31	1.53	0	0.32	0.96	0.00	0.37	0.00		9.13		
1010	948	Redlands Place	1.00	258.24	1.00	0	0.37	0.96	0.00	0.37	0.00		8.80		
948	830	Redlands Place	1.00	402.70	1.30	0	0.33	0.96	0.00	0.33	0.00		13.59		
830	736	ROW	1.00	509.55	19.17	0	0.17	0.96	0.00	0.37	0.00		5.71		
736	688	ROW	1.00	332.55	1.01	0	0.37	1.07	0.00	0.39	0.00		12.21		
688	633	ROW	1.00	406.43	0.89	0	0.39	1.07	0.00	0.39	0.00		8.86		
633	580	ROW	1.00	400.62	0.90	0	0.39	1.07	0.00	0.55	0.00		5.98		
580	520	ROW	1.00	404.67	0.49	0	0.55	1.07	0.00	0.55	0.00		25.90		
520	510	ROW	1.00	112.35	1.78	0	0.32	1.07	0.00	0.36	0.00		17.03		
510	507	ROW	1.00	46.58	1.87	0	0.36	1.07	0.00	0.36	0.00		8.79		
507	486	ROW	1.00	163.85	4.99	0	0.25	1.07	0.00	0.37	0.00		4.87		
486	475	ROW	1.00	65.52	1.07	0	0.37	1.07	0.00	0.51	0.00		6.63		
475	474	Country Vista Lane	1.00	108.27	0.52	0	0.51	1.31	0.00	0.56	0.00		6.49		
474	467	Country Vista Lane	1.00	317.07	0.50	0	0.56	1.31	0.00	0.56	0.00		9.20		
467	464	Country Vista Lane	1.00	195.32	0.89	0	0.45	1.31	0.00	0.45	0.00		15.06		
464	463	Country Vista Lane	1.00	91.00	1.07	0	0.41	1.31	0.00	0.46	0.00		13.91		
463	409	Country Vista Lane	1.00	373.73	1.06	0	0.46	1.31	0.00	0.46	0.00		11.32		
409	437	Sandy Creek Drive	1.00	221.36	1.99	0	0.35	1.31	0.00	0.36	0.00		21.55		
437	430	Sandy Creek Drive	1.00	63.82	1.96	0	0.36	1.31	0.00	0.36	0.00		17.45		
430	445	Acacia Avenue	1.00	120.09	2.31	0	0.33	1.31	0.00	0.34	0.00		17.62		
445	455	Acacia Avenue	1.00	114.12	12.65	0	0.22	1.31	0.00	0.22	0.00		22.71		
455	435	Acacia Avenue	1.00	332.75	2.15	0	0.34	1.31	0.00	0.35	0.00		7.89		
435	411	Acacia Avenue	1.00	351.27	2.59	0	0.35	1.31	0.00	0.35	0.00		7.30		
411	383	Acacia Avenue	1.00	351.02	3.99	0	0.29	1.31	0.00	0.39	0.00		8.21		
383	363	Acacia Avenue	1.00	373.47	2.01	0	0.39	1.31	0.00	0.39	0.00		8.41		
363	349	Acacia Avenue	1.00	334.33	3.73	0	0.30	1.31	0.00	0.42	0.00		8.70		
349	347	Acacia Avenue	1.00	55.08	0.98	0	0.42	1.31	0.00	0.42	0.00		12.85		
347	329	Acacia Avenue	1.00	398.92	1.02	0	0.42	1.31	0.00	0.44	0.00		13.00		
329	317	Acacia Avenue	1.00	420.70	1.01	0	0.43	1.31	0.00	0.44	0.00		10.43		
317	285	Acacia Avenue	1.00	404.54	1.87	0	0.40	1.31	0.00	0.40	0.00		6.36		
285	249	Acacia Avenue	1.00	382.24	3.61	0	0.30	1.31	0.00	0.36	0.00		6.52		
249	222	Acacia Avenue	1.00	364.73	2.90	0	0.36	1.31	0.00	0.36	0.00		7.50		
222	191	Acacia Avenue	1.00	263.74	6.53	0	0.26	1.31	0.00	0.28	0.00		6.66		
191	157	Acacia Avenue	1.00	352.62	4.32	0	0.28	1.31	0.00	0.33	0.00		6.55		
157	111	Acacia Avenue	1.00	355.88	2.64	0	0.33	1.31	0.00	0.33	0.00		7.45		
111	105	Acacia Avenue	1.00	110.87	3.04	0	0.31	1.31	0.00	0.31	0.00		6.77		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
105	91	Acacia Avenue	1.00	247.45	3.04	0	0.31	1.31	0.00	0.37	0.00		8.28		
91	64	Acacia Avenue	1.00	347.91	1.51	0	0.37	1.31	0.00	0.38	0.00		11.60		
64	49	Acacia Avenue	1.00	350.37	1.50	0	0.38	1.31	0.00	0.40	0.00		11.14		
49	41	Acacia Avenue	1.00	287.28	1.21	0	0.40	1.31	0.00	0.40	0.00		10.40		
41	38	Acacia Avenue	1.00	62.85	1.21	0	0.40	1.31	0.00	0.48	0.00		10.97		
869	7302	Otay Lakes Road	0.67	224.70	3.06	0	0.15	0.23	0.00	0.22	0.00		3.45		
7302	7303	Otay Lakes Road	0.67	399.29	3.11	0	0.15	0.23	0.00	0.23	0.00		5.32		
7303	791	Otay Lakes Road	0.67	103.18	2.90	0	0.15	0.23	0.00	0.28	0.00		4.72		
791	740	Otay Lakes Road	0.67	248.05	2.99	0	0.18	0.34	0.00	0.29	0.00		3.68		
740	709	Otay Lakes Road	0.67	273.69	2.59	0	0.19	0.34	0.00	0.29	0.00		6.08		
709	693	Otay Lakes Road	0.67	126.02	2.62	0	0.19	0.34	0.00	0.30	0.00		5.18		
693	628	Otay Lakes Road	0.67	401.22	2.09	0	0.20	0.34	0.00	0.33	0.00		5.47		
628	618	Otay Lakes Road	0.67	399.33	1.50	0	0.22	0.34	0.00	0.37	0.00		4.85		
618	615	Otay Lakes Road	0.67	345.35	1.49	0	0.24	0.34	0.00	0.37	0.00		5.83		
615	603	Otay Lakes Road	0.67	398.38	2.81	0	0.19	0.34	0.00	0.28	0.00		6.04		
603	595	Otay Lakes Road	0.67	401.19	3.19	0	0.18	0.34	0.00	0.28	0.00		6.25		
595	568	Otay Lakes Road	0.67	399.25	4.57	0	0.18	0.34	0.00	0.26	0.00		6.05		
568	482	Otay Lakes Road	0.67	401.98	6.27	0	0.15	0.34	0.00	0.25	0.00		6.33		
482	422	Otay Lakes Road	0.67	398.36	4.52	0	0.16	0.34	0.00	0.26	0.00		8.52		
422	364	Otay Lakes Road	0.67	400.88	3.82	0	0.18	0.34	0.00	0.26	0.00		6.50		
364	324	Otay Lakes Road	0.67	403.23	4.22	0	0.17	0.34	0.00	0.53	0.00		6.81		
324	278	Otay Lakes Road	0.67	375.13	1.20	0	0.35	0.52	0.00	0.53	0.00		12.65		
278	225	Otay Lakes Road	0.67	394.96	3.80	0	0.21	0.52	0.00	0.38	0.00		6.30		
225	207	Otay Lakes Road	0.67	172.09	2.70	0	0.25	0.61	0.00	0.38	0.00		5.28		
207	193	Otay Lakes Road	0.67	100.21	2.69	0	0.26	0.61	0.00	0.38	0.00		4.91		
193	175	Otay Lakes Road	0.67	126.50	2.74	0	0.25	0.61	0.00	0.38	0.00		4.62		
175	160	Otay Lakes Road	0.67	169.63	2.71	0	0.25	0.61	0.00	0.39	0.00		6.08		
160	146	Otay Lakes Road	0.67	61.89	2.62	0	0.26	0.61	0.00	0.39	0.00		6.66		
146	140	Otay Lakes Road	0.67	56.44	17.74	0	0.16	0.61	0.00	0.24	0.00		7.38		
2042	2006	Rice Canyon	0.83	316.96	2.55	0	0.26	0.74	0.00	0.31	0.00		14.19		
2006	2005	Rice Canyon	0.83	238.00	6.93	0	0.20	0.74	0.00	0.24	0.00		5.29		
2005	1989	Rice Canyon	0.83	396.13	0.99	0	0.33	0.73	0.00	0.40	0.00		5.06		
1989	1977	Rice Canyon	0.83	397.44	2.03	0	0.28	0.73	0.00	0.33	0.00		4.73		
1977	1976	Rice Canyon	0.83	292.91	0.98	0	0.33	0.73	0.00	0.40	0.00		4.75		
1976	1984	Rice Canyon	0.83	400.28	2.48	0	0.26	0.73	0.00	0.31	0.00		5.80		
1984	2017	Rice Canyon	0.83	382.65	1.49	0	0.32	0.83	0.00	0.38	0.00		7.58		
2017	2020	Rice Canyon	1.00	248.38	1.05	0	0.32	0.83	0.00	0.32	0.00		3.62		
2020	2051	Rice Canyon	1.00	244.81	1.09	0	0.32	0.83	0.00	0.32	0.00		4.23		
2051	2077	Rice Canyon	1.00	178.90	5.20	0	0.22	0.83	0.00	0.31	0.00		12.40		
2077	2085	Rice Canyon	1.00	242.25	0.39	0	0.45	0.83	0.00	0.45	0.00		5.82		
2085	2129	Rice Canyon	1.00	283.72	2.09	0	0.27	0.83	0.00	0.27	0.00		8.35		
2129	2159	Rice Canyon	1.00	393.92	1.51	0	0.29	0.83	0.00	0.30	0.00		3.51		
2159	2165	Rice Canyon	1.00	113.75	4.25	0	0.23	0.83	0.00	0.38	0.00		5.53		
2165	2171	Rice Canyon	1.00	400.28	0.42	0	0.48	1.06	0.00	0.61	0.00		8.61		
2171	2115	Rice Canyon	1.00	337.55	0.42	0	0.61	1.06	0.00	0.61	0.00		6.76		
2115	2114	Rice Canyon	1.00	248.06	4.03	0	0.26	1.06	0.00	0.28	0.00		6.74		
2114	2121	Rice Canyon	1.00	399.27	2.85	0	0.28	1.06	0.00	0.49	0.00		4.32		
2121	2145	Rice Canyon	1.00	103.33	0.47	0	0.49	1.06	0.00	0.49	0.00		6.68		
2145	2146	Rice Canyon	1.00	201.73	0.82	0	0.39	1.06	0.00	0.40	0.00		4.47		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2146	2157	Rice Canyon	1.00	380.08	1.21	0	0.40	1.06	0.00	0.40	0.00		1.02		
2157	2190	Rice Canyon	1.00	399.50	2.52	0	0.29	1.06	0.00	0.32	0.00		5.74		
2190	2208	Rice Canyon	1.00	251.21	1.83	0	0.32	1.06	0.00	0.32	0.00		15.78		
2208	2238	Rice Canyon	1.00	188.99	1.83	0	0.32	1.06	0.00	0.32	0.00		9.47		
2238	2262	Rice Canyon	1.00	181.21	1.83	0	0.32	1.06	0.00	0.35	0.00		4.22		
2262	2291	Rice Canyon	1.00	191.08	1.83	0	0.34	1.23	0.00	0.36	0.00		9.72		
2291	7420	Rice Canyon	1.00	106.79	1.64	0	0.35	1.23	0.00	0.36	0.00		5.70		
7420	2391	Rice Canyon	1.00	339.48	1.17	0	0.39	1.23	0.00	0.39	0.00		15.21		
2391	2475	Rice Canyon	1.00	341.52	2.75	0	0.31	1.23	0.00	0.33	0.00		6.79		
2475	2506	Rice Canyon	1.00	228.02	1.29	0	0.38	1.23	0.00	0.38	0.00		8.27		
2506	2537	Rice Canyon	1.00	160.46	3.48	0	0.29	1.23	0.00	0.40	0.00		13.92		
2537	2576	Rice Canyon	1.00	212.85	1.07	0	0.40	1.23	0.00	0.41	0.00		15.60		
2576	2618	Rice Canyon	1.00	278.44	0.98	0	0.41	1.23	0.00	0.41	0.00		18.87		
2618	2636	Rice Canyon	1.00	125.53	11.90	0	0.21	1.23	0.00	0.53	0.00		10.79		
7609	7604	Camino Del Sol	0.67	92.74	1.13	0	0.27	0.44	0.00	0.41	0.00		8.34		
7604	7603	Camino Del Sol	0.67	145.54	1.13	0	0.27	0.44	0.00	0.49	0.00		9.98		
7603	7608	Camino Del Sol	0.67	332.81	1.23	0	0.33	0.44	0.00	0.49	0.00		9.65		
7608	7602	Camino Del Sol	0.67	132.47	5.17	0	0.18	0.44	0.00	0.35	0.00		14.67		
7602	7601	Camino Del Sol	0.67	391.89	2.04	0	0.23	0.44	0.00	0.39	0.00		10.95		
7601	7600	Camino Del Sol	0.67	341.65	1.31	0	0.26	0.44	0.00	0.39	0.00		6.53		
7600	7588	Camino Del Sol	0.67	336.25	1.38	0	0.25	0.44	0.00	0.38	0.00		6.06		
7588	7587	Camino Del Sol	0.67	393.97	1.38	0	0.26	0.44	0.00	0.38	0.00		5.90		
7587	7586	Camino Del Sol	0.67	66.25	1.40	0	0.25	0.44	0.00	0.38	0.00		8.79		
7586	7577	Camino Del Sol	0.67	72.32	1.41	0	0.25	0.44	0.00	0.39	0.00		8.13		
7577	7576	Camino Del Sol	0.67	172.52	1.40	0	0.26	0.44	0.00	0.39	0.00		7.28		
7576	7585	Camino Del Sol	0.67	143.99	1.50	0	0.25	0.44	0.00	0.38	0.00		12.99		
7585	7582	Camino Del Sol	0.67	98.28	1.56	0	0.25	0.44	0.00	0.38	0.00		9.53		
7582	7581	Camino Del Sol	0.67	252.52	1.49	0	0.25	0.44	0.00	0.38	0.00		7.38		
7581	7572	Camino Del Sol	0.67	346.76	1.49	0	0.25	0.44	0.00	0.38	0.00		4.58		
7572	7578	Camino Del Sol	0.67	91.30	1.49	0	0.25	0.44	0.00	0.38	0.00		7.15		
7578	7579	Camino Del Sol	0.67	171.60	1.49	0	0.25	0.44	0.00	0.38	0.00		6.63		
7579	2874	East H Street	0.67	114.64	1.61	0	0.24	0.44	0.00	0.43	0.00		5.82		
2874	2867	East H Street	0.67	402.11	3.79	0	0.29	0.73	0.00	0.43	0.00		6.71		
2867	2857	East H Street	1.00	403.12	4.17	0	0.21	0.73	0.00	0.40	0.00		7.70		
2857	2847	East H Street	1.00	279.68	1.01	0	0.40	0.73	0.00	0.40	0.00		8.25		
2847	2829	East H Street	1.00	194.85	8.45	0	0.18	0.73	0.00	0.21	0.00		11.18		
2829	2794	East H Street	1.00	325.60	5.00	0	0.21	0.73	0.00	0.21	0.00		8.39		
2794	2736	East H Street	1.00	398.59	5.67	0	0.20	0.73	0.00	0.22	0.00		7.94		
2736	2678	East H Street	1.00	394.00	3.94	0	0.22	0.73	0.00	0.29	0.00		8.40		
2678	2644	East H Street	1.00	341.13	3.34	0	0.29	0.92	0.00	0.29	0.00		8.27		
2644	2636	East H Street	1.00	365.97	6.70	0	0.21	0.92	0.00	0.53	0.00		9.12		
2636	2637	East H Street	1.00	107.00	1.21	0	0.53	2.15	0.00	0.56	0.00		20.16		
2637	2639	East H Street	1.00	402.02	1.19	0	0.56	2.28	0.00	0.56	0.00		17.85		
2639	2640	East H Street	1.00	200.16	1.33	0	0.54	2.28	0.00	0.54	0.00		15.49		
2640	2630	East H Street	1.00	225.18	1.38	0	0.53	2.28	0.00	0.54	0.00		16.17		
2630	2615	East H Street	1.00	399.21	1.30	0	0.54	2.28	0.00	0.54	0.00		17.26		
2615	2592	East H Street	1.00	396.35	1.36	0	0.53	2.28	0.00	0.67	0.00		18.47		
2592	2586	East H Street	1.25	247.18	0.40	0	0.67	2.28	0.00	0.54	0.00		19.73		
2586	2580	East H Street	1.25	249.57	0.40	0	0.67	2.28	0.00	0.54	0.00		17.72		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
2580	2563	East H Street	1.25	194.48	0.40	0	0.67	2.28	0.00	0.54	0.00		16.71		
2563	2549	East H Street	1.25	307.98	0.40	0	0.67	2.28	0.00	0.64	0.00		15.49		
2549	2517	East H Street	1.25	326.53	0.40	0	0.81	2.89	0.00	0.64	0.00		13.58		
2517	2486	East H Street	1.25	256.35	0.50	0	0.72	2.89	0.00	0.58	0.00		11.48		
2486	2449	East H Street	1.25	211.76	0.50	0	0.72	2.89	0.00	0.58	0.00		14.26		
2449	2414	East H Street	1.25	237.62	0.50	0	0.72	2.89	0.00	0.62	0.00		17.32		
2414	2355	East H Street	1.25	326.27	0.40	0	0.78	2.89	0.00	0.67	0.00		20.83		
2355	2330	East H Street	1.25	359.67	0.40	0	0.84	3.23	0.00	0.67	0.00		21.69		
2330	2331	East H Street	1.25	358.53	0.40	0	0.84	3.23	0.00	0.67	0.00		23.13		
2331	2333	East H Street	1.25	91.08	21.94	0	0.28	3.23	0.00	0.54	0.00		21.93		
2333	2371	East H Street	1.25	294.09	1.67	0	0.68	3.23	0.00	0.54	0.00		37.71		
2371	2336	East H Street	1.25	476.32	8.19	0	0.35	3.23	0.00	0.44	0.00		42.66		
2336	2219	ROW	1.25	445.37	1.49	0	0.55	3.23	0.00	0.45	0.00		8.76		
2219	2107	ROW	1.25	411.79	1.46	0	0.56	3.23	0.00	0.45	0.00		6.79		
2107	1967	ROW	1.25	404.99	1.48	0	0.56	3.23	0.00	0.45	0.00		8.39		
1967	1806	ROW	1.25	353.37	1.70	0	0.56	3.23	0.00	0.44	0.00		7.39		
1806	7661	ROW	1.50	408.37	1.47	0	0.51	3.23	0.00	0.51	0.00		9.44		
7661	1490	ROW	1.50	335.72	0.54	0	0.77	3.23	0.00	0.51	0.00		9.68		
1490	7647	ROW	1.50	294.32	1.44	0	0.52	3.23	0.00	0.41	0.00		10.23		
7647	7892	Plaza Bonita Road	1.50	23.59	1.27	0	0.61	3.23	0.00	0.57	0.00		9.89		
7892	7643	Plaza Bonita Road	1.50	281.46	0.30	0	0.85	3.23	0.00	0.57	0.00		10.20		
7643	1211	Plaza Bonita Road	1.50	339.52	0.50	0	0.69	3.23	0.00	0.46	0.00		11.58		
1211	1165	Plaza Bonita Road	1.50	400.44	0.50	0	0.69	3.23	0.00	0.48	0.00		16.41		
1165	1102	Plaza Bonita Road	1.50	397.62	0.50	0	0.71	3.23	0.00	0.48	0.00		9.75		
1102	1074	Plaza Bonita Road	1.50	226.00	0.67	0	0.66	3.43	0.00	0.50	0.00		9.79		
1074	1054	Plaza Bonita Road	1.67	85.42	0.43	0	0.75	3.73	0.00	0.56	0.00		9.18		
1054	963	Plaza Bonita Road	1.67	351.69	0.20	0	0.97	3.73	0.00	0.58	0.00		8.29		
963	923	Plaza Bonita Road	1.67	142.12	0.42	0	0.76	3.73	0.00	0.46	0.00		8.41		
1080	1110	C Street	1.00	299.28	0.23	0	0.46	0.75	0.00	0.46	0.00		6.54		
1110	1119	C Street	1.00	134.50	0.23	0	0.46	0.74	0.00	0.51	0.00		6.54		
1119	1116	Fifth Avenue	1.00	9.72	0.21	0	0.51	0.74	0.00	0.51	0.00		6.49		
1116	1001	Fifth Avenue	1.00	322.06	0.23	0	0.46	0.74	0.00	0.46	0.00		16.56		
1001	914	*Fifth Avenue*	*1.00*	*304.63*	*0.23*	*0*	*0.46*	*0.74*	*0.00*	*0.46*	*0.00*		5.80		
914	883	Fifth Avenue	1.00	106.10	0.24	0	0.46	0.74	0.00	0.47	0.00		9.50		
883	836	Fifth Avenue	1.00	154.96	0.23	0	0.47	0.74	0.00	0.47	0.00		12.24		
836	848	Fifth Avenue	1.00	55.36	0.23	0	0.45	0.74	0.00	0.45	0.00		10.11		
G Street															
5359	5362	G Street	1.00	72.19	2.44	0	0.26	0.37	0.00	0.27	0.00		12.72		
5362	5371	G Street	1.00	374.07	0.53	0	0.27	0.37	0.00	0.27	0.00		13.98		
5371	5381	G Street	1.00	375.37	0.68	0	0.24	0.37	0.00	0.24	0.00		15.38		
5381	5385	G Street	1.00	373.56	0.68	0	0.24	0.37	0.00	0.24	0.00		14.93		
5385	5388	G Street	1.00	148.46	2.18	0	0.18	0.37	0.00	0.35	0.00		14.57		
5291	5290	Third Avenue	1.00	169.13	2.23	0	0.24	0.69	0.00	0.42	0.00		9.30		
5290	5308	Third Avenue	1.00	274.90	0.28	0	0.42	0.69	0.00	0.44	0.00		12.10		
5308	5316	Alley	1.00	358.29	0.26	0	0.44	0.69	0.00	0.44	0.00		11.84		
5316	5301	Alley	1.00	192.55	0.30	0	0.41	0.69	0.00	0.41	0.00		15.69		
5301	5299	Alley	1.00	127.53	0.30	0	0.40	0.69	0.00	0.45	0.00		10.63		
5299	5300	Alley	1.00	162.94	0.32	0	0.45	0.69	0.00	0.87	0.00		10.11	162.9	

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5300	5298	Center Street	1.00	34.55	0.26	0	0.87	0.69	0.00	0.95	0.00		10.06	34.5	
5298	5314	Center Street	1.00	629.88	0.02	0	0.95	0.81	0.00	0.95	0.00		10.07	629.9	
5314	5369	Fourth Avenue	1.00	677.01	0.17	0	0.53	0.81	0.00	0.61	0.00		13.04		
5369	5388	Fourth Avenue	1.00	323.55	0.16	0	0.61	0.81	0.00	0.61	0.00		13.65		
5388	5397	G Street	1.25	451.43	1.14	0	0.35	1.17	0.00	0.28	0.00		16.63		
5397	5402	G Street	1.25	440.33	1.17	0	0.35	1.17	0.00	0.28	0.00		15.18		
5402	5405	G Street	1.25	417.09	1.20	0	0.34	1.17	0.00	0.35	0.00		14.34		
5405	5406	G Street	1.25	11.03	1.18	0	0.43	1.17	0.00	0.35	0.00		13.51		
5348	5372	Fifth Avenue	1.00	333.40	0.12	0	0.23	0.13	0.00	0.23	0.00		12.19		
5372	5396	Fifth Avenue	1.00	327.52	0.12	0	0.20	0.13	0.00	0.25	0.00		8.61		
5396	5406	Fifth Avenue	1.00	324.58	0.12	0	0.25	0.13	0.00	0.25	0.00		10.76		
5406	5416	G Street	1.25	438.23	1.33	0	0.35	1.30	0.00	0.33	0.00		13.57		
5416	5420	G Street	1.25	438.23	0.70	0	0.42	1.30	0.00	0.47	0.00		14.84		
5420	2970	G Street	1.25	423.91	0.42	0	0.59	1.30	0.00	0.47	0.00		13.75		
2210	2310	Broadway	1.00	337.33	0.16	0	0.76	1.33	0.00	0.76	0.00		16.75		
2310	2415	Broadway	1.00	330.97	0.16	0	0.76	1.32	0.00	0.77	0.00		16.59		
2415	2502	Broadway	1.00	331.27	0.16	0	0.77	1.32	0.00	0.83	0.00		15.71		
2502	2571	Broadway	1.00	335.66	0.16	0	0.83	1.32	0.00	0.83	0.00		15.58		
2571	2570	Broadway	1.00	57.40	0.16	0	0.65	1.32	0.00	0.65	0.00		14.99		
2570	2643	Broadway	1.25	313.85	0.09	0	0.77	1.32	0.00	0.65	0.00		15.46		
2643	2653	Broadway	1.25	30.28	0.07	0	0.81	1.32	0.00	0.65	0.00		14.35		
2653	2743	Broadway	1.25	315.21	0.07	0	0.81	1.32	0.00	0.64	0.00		14.23		
2743	2828	Broadway	1.25	330.92	0.08	0	0.79	1.32	0.00	0.64	0.00		13.02		
2828	2903	Broadway	1.25	341.24	0.08	0	0.80	1.32	0.00	0.65	0.00		12.27		
2903	2970	Broadway	1.25	312.59	0.08	0	0.82	1.43	0.00	0.65	0.00		11.97		
2970	2981	G Street	1.50	50.70	7.73	0	0.31	2.73	0.00	0.26	0.00		11.64		
2650	2770	Broadway	0.67	421.31	0.12	0	0.48	0.36	0.00	0.72	0.00		6.52		
2770	2869	Broadway	0.67	442.47	0.13	0	0.47	0.36	0.00	0.70	0.00		6.53		
2869	2901	Broadway	0.67	132.87	0.17	0	0.42	0.36	0.00	0.63	0.00		6.58		
2901	2978	Broadway	0.67	332.62	0.17	0	0.42	0.36	0.00	0.66	0.00		6.58		
2978	2980	Broadway	0.67	3.28	0.30	0	0.44	0.36	0.00	0.66	0.00		6.56		
2980	2981	Broadway	0.67	4.00	0.25	0	0.39	0.36	0.00	0.59	0.00		6.61		
2981	2982	G Street	1.50	11.70	9.66	0	0.39	3.08	0.00	0.53	0.00		15.63		
5359	5361	G Street	0.83	43.13	0.28	0	0.26	0.25	0.00	0.32	0.00		12.72		
5361	5363	G Street	0.83	151.13	0.30	0	0.25	0.25	0.00	0.31	0.00		12.85		
5363	5373	G Street	0.83	487.28	0.30	0	0.26	0.25	0.00	0.34	0.00		13.30		
5373	5391	G Street	0.83	661.94	0.30	0	0.29	0.24	0.00	0.34	0.00		12.43		
5391	5395	G Street	1.00	214.84	0.64	0	0.35	0.76	0.00	0.35	0.00		15.64		
5395	5398	G Street	1.00	445.24	0.64	0	0.35	0.76	0.00	0.35	0.00		14.08		
5398	5408	G Street	1.00	659.69	0.64	0	0.35	0.76	0.00	0.35	0.00		10.86		
5408	5418	G Street	1.00	660.28	0.56	0	0.37	0.75	0.00	0.37	0.00		12.93		
5418	2976	G Street	1.00	626.19	0.55	0	0.37	0.75	0.00	0.59	0.00		13.77		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3474	3426	Broadway	1.00	141.09	0.35	0	0.42	0.78	0.00	0.50	0.00		6.58		
3426	3283	Broadway	1.00	415.63	0.20	0	0.50	0.78	0.00	0.50	0.00		6.50		
3283	3234	Broadway	1.00	125.52	0.20	0	0.50	0.78	0.00	0.50	0.00		6.50		
3234	3208	Broadway	1.00	103.11	0.20	0	0.49	0.78	0.00	0.50	0.00		6.51		
3208	3207	Broadway	1.00	95.27	0.20	0	0.50	0.78	0.00	0.50	0.00		6.50		
3207	5512	Broadway	1.00	199.11	0.20	0	0.49	0.78	0.00	0.50	0.00		6.51		
5512	3097	Broadway	1.00	125.20	0.20	0	0.50	0.78	0.00	0.51	0.00		6.50		
3097	3057	Broadway	1.00	167.38	0.20	0	0.51	0.78	0.00	0.51	0.00		6.49		
3057	2976	Broadway	1.00	335.18	0.42	0	0.42	0.78	0.00	0.42	0.00		6.58		
2976	2975	G Street	1.00	13.84	0.29	0	0.59	1.54	0.00	0.59	0.00		11.45		
2975	2984	G Street	1.50	50.32	7.81	0	0.23	1.54	0.00	0.19	0.00		11.74		
2984	2982	G Street	1.50	14.31	7.69	0	0.28	1.54	0.00	0.53	0.00		15.82		
2982	NewMH12	G Street	1.50	616.96	0.56	0	0.79	4.51	0.00	0.61	0.00		16.23		
NewMH12	NewMH4	G Street	2.25	1365.09	0.50	0	1.00	8.98	0.00	0.56	0.00		16.59		
2778	2799	F Street	1.00	261.18	0.34	0	6.59	2.87	0.00	6.59	10.89	5.6	0.41	261.2	261.2
2799	2838	Private Road	1.00	160.57	0.28	0	5.90	2.86	0.00	5.90	12.54	4.9	11.35	160.6	160.6
2838	2837	Private Road	1.00	74.28	0.24	0	5.38	2.86	0.00	5.38	12.61	4.4	12.32	74.3	74.3
2837	2913	Private Road	1.00	377.26	0.25	0	5.10	2.86	0.00	5.10	12.48	4.1	12.78	377.3	377.3
2913	3001	Private Road	1.00	391.22	0.24	0	3.71	2.86	0.00	3.71	11.89	2.7	10.11	391.2	391.2
3001	3094	Private Road	1.00	374.40	0.32	0	2.19	2.86	0.00	2.19	6.51	1.2	11.57	374.4	374.4
3094	NewMH4	G Street	1.25	5.00	2.06	0	1.21	2.86	0.00	1.01	0.00		3.14	5.0	5.0
NewMH4	NewMH3	G Street	2.25	262.09	0.50	0	1.26	11.83	0.00	0.56	0.00		12.14		
NewMH3	3119	G Street	1.50	51.11	0.84	0	0.91	6.17	0.00	0.72	0.00		12.32		
3119	3142	G Street	1.50	401.23	0.42	0	1.17	6.17	0.00	0.78	0.00		13.32		
3142	NewMH2	G Street	1.50	58.24	0.68	0	1.00	6.20	0.00	0.79	0.00		8.73		
NewMH3	N590	G Street	1.75	60.23	0.50	0	0.91	5.66	0.00	0.58	0.00		12.32		
N590	N593	G Street	1.75	389.32	0.36	0	1.12	5.66	0.00	0.64	0.00		13.06		
N593	NewMH2	G Street	1.75	61.03	1.33	0	0.67	5.66	0.00	0.67	0.00		9.85		
NewMH2	NewMH1B	G Street	2.25	256.00	0.50	0	1.18	11.86	0.00	0.55	0.00		6.85		
NewMH1B	3169	G Street	2.25	20.33	0.50	0	1.24	11.86	0.00	0.55	0.00		4.77		
3169	NewMH1A	G Street	2.25	50.21	0.25	0	1.40	12.26	0.00	0.62	0.00		4.96		
NewMH1A	BeginVault	G Street	2.00	8.00	0.22	0	1.34	12.26	0.00	0.67	0.00		4.95		
BeginVault	3170	G Street	2.00	11.66	0.26	0	1.15	12.26	0.00	0.58	0.00		5.15		
3170	3172	G Street	2.00	45.00	3.29	0	0.82	12.26	0.00	0.41	0.00		3.41		
3172	3148	G Street	2.00	92.49	7.89	0	0.60	12.26	0.00	0.63	0.00		3.64		
Telegraph															
MH34	MH35	J Street	1.75	367.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.11		
MH35	3371	J Street	1.75	378.00	0.37	2,666,674	1.03	6.30	0.00	0.59	0.00		5.47		
3371	3425	J Street	0.67	439.74	1.89	0	0.27	0.59	0.00	0.48	0.00		6.73		
3425	3450	J Street	0.67	203.46	1.14	0	0.32	0.59	0.00	0.52	0.00		6.68		
3450	3473	J Street	0.67	237.31	1.13	0	0.34	0.61	0.00	0.52	0.00		6.66		
3473	3519	J Street	0.67	440.73	1.57	0	0.30	0.61	0.00	0.45	0.00		6.70		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3519	3527	J Street	0.67	42.48	1.65	0	0.29	0.61	0.00	0.67	0.00		6.71		
3371	3362	J Street	1.75	7.81	191.32	0	0.27	5.99	0.00	0.58	0.00		6.73		
3362	3420	J Street	1.75	451.55	0.37	0	1.01	6.03	0.00	0.58	0.00		19.84		
3420	3472	J Street	1.75	447.18	0.36	0	1.02	6.03	0.00	0.58	0.00		14.48		
3472	3514	J Street	1.75	424.63	0.42	0	1.00	6.03	0.00	0.57	0.00		11.11		
3514	3527	J Street	1.50	42.94	2.47	0	0.63	6.05	0.00	0.50	0.00		6.95		
3527	3570	J Street	1.50	398.57	1.59	0	0.75	6.66	0.00	0.54	0.00		7.39		
3570	3604	J Street	1.50	441.16	1.30	0	0.82	6.91	0.00	0.55	0.00		6.65		
3604	3660	J Street	1.50	440.17	1.28	0	0.82	6.91	0.00	0.55	0.00		7.88		
3660	3698	J Street	1.50	335.37	1.28	0	0.82	6.91	0.00	0.55	0.00		7.52		
3698	3733	J Street	1.50	325.18	1.28	0	0.82	6.91	0.00	0.55	0.00		7.32		
3733	3766	J Street	1.50	325.54	1.28	0	0.83	6.91	0.00	0.55	0.00		7.48		
3766	3812	J Street	1.50	316.28	1.34	0	0.81	6.91	0.00	0.54	0.00		7.17		
3812	3819	J Street	1.50	51.98	0.88	0	0.93	6.91	0.00	0.62	0.00		7.03		
3819	3843	J Street	1.50	263.19	0.88	0	0.93	6.91	0.00	0.62	0.00		6.91		
3843	3862	J Street	1.50	344.55	1.74	0	0.76	6.91	0.00	0.50	0.00		6.57		
3862	3875	J Street	1.50	153.38	1.80	0	0.74	6.91	0.00	0.50	0.00		8.58		
3875	3888	J Street	1.50	184.41	1.79	0	0.74	6.91	0.00	0.55	0.00		9.30		
3888	3893	J Street	1.50	73.53	1.75	0	0.76	6.91	0.00	0.58	0.00		10.13		
3893	3922	J Street	1.50	273.71	1.75	0	0.75	6.91	0.00	0.58	0.00		9.52		
3922	3938	J Street	1.49	330.13	1.50	0	0.83	7.35	0.00	0.57	0.00		7.13		
3938	3961	J Street	1.50	325.45	1.52	0	0.81	7.35	0.00	0.56	0.00		5.60		
3961	3980	J Street	1.50	333.96	1.48	0	0.83	7.35	0.00	0.56	0.00		6.29		
3980	4001	J Street	1.50	330.80	1.50	0	0.83	7.35	0.00	0.58	0.00		7.24		
4001	4025	J Street	1.50	345.46	1.42	0	0.87	7.50	0.00	0.58	0.00		8.90		
4025	4038	J Street	1.50	350.44	1.40	0	0.86	7.50	0.00	0.66	0.00		8.81		
4038	4066	J Street	1.50	329.81	1.48	0	0.98	7.50	0.00	0.66	0.00		9.08		
4066	4075	J Street	1.50	276.13	4.18	0	0.61	7.50	0.00	0.58	0.00		8.59		
4075	4080	J Street	1.50	72.18	1.25	0	0.87	7.50	0.00	0.60	0.00		14.87		
4080	4097	J Street	1.50	317.96	1.25	0	0.87	7.50	0.00	0.60	0.00		14.52		
4097	4114	J Street	1.50	231.57	1.49	0	0.88	7.64	0.00	0.59	0.00		12.99		
4114	4121	J Street	1.75	82.58	1.51	0	0.76	7.64	0.00	0.44	0.00		13.56		
4121	4131	J Street	1.75	145.94	1.51	0	0.76	7.64	0.00	0.53	0.00		13.91		
4131	4139	J Street	1.75	107.68	1.00	0	0.89	7.74	0.00	0.55	0.00		14.38		
4139	4153	J Street	1.75	220.46	1.01	0	0.88	7.64	0.00	0.55	0.00		14.16		
4153	4158	J Street	1.75	33.60	1.01	0	0.88	7.64	0.00	0.61	0.00		13.69		
4158	4172	J Street	1.75	256.85	1.00	0	1.05	7.64	0.00	0.61	0.00		13.46		
4172	4187	J Street	1.75	259.33	0.99	0	0.92	7.64	0.00	0.78	0.00		13.07		
3588	3603	J Street	0.67	221.13	1.18	0	0.07	0.03	0.00	0.11	0.00		6.93		
3603	3658	J Street	0.67	440.29	1.24	0	0.07	0.03	0.00	0.11	0.00		8.00		
3658	3692	J Street	0.67	334.34	1.34	0	0.06	0.03	0.00	0.11	0.00		7.47		
3692	3731	J Street	0.67	327.04	1.26	0	0.07	0.03	0.00	0.11	0.00		7.43		
3731	3764	J Street	0.67	325.10	1.29	0	0.06	0.03	0.00	0.11	0.00		7.57		
3764	3810	J Street	0.67	315.94	1.34	0	0.07	0.03	0.00	0.11	0.00		7.26		
3810	3842	J Street	0.83	324.89	1.16	0	0.06	0.03	0.00	0.08	0.00		11.01		
3842	3845	J Street	0.83	84.08	1.03	0	0.07	0.03	0.00	0.08	0.00		6.76		
3845	3872	J Street	0.83	403.37	1.31	0	0.06	0.03	0.00	0.12	0.00		6.64		
3872	3891	J Street	0.83	257.42	1.55	0	0.10	0.07	0.00	0.12	0.00		7.90		

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3891	3919	J Street	0.83	274.03	2.69	0	0.08	0.07	0.00	0.11	0.00		7.42		
3919	3947	J Street	1.00	440.97	1.60	0	0.09	0.07	0.00	0.11	0.00		7.28		
3947	3973	J Street	1.00	429.70	1.53	0	0.11	0.07	0.00	0.11	0.00		6.82		
3973	3999	J Street	1.00	450.77	1.38	0	0.06	0.07	0.00	0.13	0.00		8.44		
3999	4021	J Street	1.00	330.00	0.54	0	0.13	0.07	0.00	0.13	0.00		9.08		
4021	4036	J Street	1.00	329.25	1.58	0	0.10	0.07	0.00	0.10	0.00		6.40		
4036	4052	J Street	1.00	240.11	2.83	0	0.08	0.07	0.00	0.09	0.00		7.12		
4052	4070	J Street	1.00	235.21	1.85	0	0.09	0.07	0.00	0.09	0.00		9.41		
4070	4074	J Street	1.00	165.40	2.21	0	0.08	0.07	0.00	0.18	0.00		9.77		
4074	4079	J Street	1.00	58.19	1.72	0	0.18	0.30	0.00	0.18	0.00		11.62		
4079	4095	J Street	1.00	317.23	2.11	0	0.16	0.30	0.00	0.19	0.00		11.34		
4095	4096	J Street	1.00	15.22	2.10	0	0.19	0.30	0.00	0.21	0.00		11.79		
4096	4113	J Street	1.00	223.82	0.89	0	0.21	0.30	0.00	0.21	0.00		11.79		
4113	4119	J Street	1.00	90.37	1.11	0	0.19	0.30	0.00	0.19	0.00		10.81		
4119	4129	J Street	1.00	140.10	1.03	0	0.19	0.30	0.00	0.28	0.00		10.81		
4129	4130	J Street	1.00	5.77	1.04	0	0.28	0.30	0.00	0.28	0.00		10.72		
4130	4134	J Street	1.00	107.68	0.62	0	0.22	0.30	0.00	0.22	0.00		10.78		
4134	4150	J Street	1.00	215.92	0.62	0	0.22	0.30	0.00	0.22	0.00		10.05		
4150	4151	J Street	1.00	4.67	4.28	0	0.22	0.30	0.00	0.25	0.00		8.58		
4151	4155	J Street	1.00	33.60	0.39	0	0.25	0.30	0.00	0.29	0.00		8.45		
4155	4171	J Street	1.00	257.27	0.38	0	0.29	0.30	0.00	0.29	0.00		8.11		
4171	4186	J Street	1.00	259.36	1.23	0	0.18	0.30	0.00	0.19	0.00		5.92		
4186	4187	J Street	1.00	3.80	172.37	0	0.09	0.00	0.00	0.00	0.00		5.91		
4187	4189	J Street	1.75	13.31	0.90	0	1.37	7.93	0.00	0.81	0.00		11.68		
5613	5614	Naples Street	1.00	341.50	0.81	0	0.45	1.32	0.00	0.59	0.00		16.25		
5614	5615	Naples Street	1.00	333.92	0.31	0	0.59	1.31	0.00	0.62	0.00		15.21		
5615	5718	Naples Street	1.00	313.81	0.31	0	0.62	1.31	0.00	0.62	0.00		14.87		
5718	5719	Naples Street	1.00	267.98	0.55	0	0.55	1.31	0.00	0.55	0.00		12.38		
5719	4460	Naples Street	1.00	66.53	0.93	0	0.43	1.31	0.00	0.55	0.00		10.47		
4460	4459	Naples Street	1.00	443.85	0.55	0	0.55	1.31	0.00	0.55	0.00		10.37		
4459	4466	Naples Street	1.00	434.36	0.95	0	0.43	1.31	0.00	0.43	0.00		7.97		
4466	4475	*Naples Street*	*1.00*	*191.36*	*0.95*	*0*	*0.43*	*1.31*	*0.00*	*0.46*	*0.00*		*7.97*		
4475	4483	Naples Street	1.00	252.01	0.95	0	0.46	1.31	0.00	0.46	0.00		7.81		
4483	4493	Naples Street	1.00	444.13	1.34	0	0.39	1.31	0.00	0.39	0.00		7.71		
4493	4497	Naples Street	1.00	214.81	1.34	0	0.39	1.31	0.00	0.39	0.00		8.41		
4497	4501	Naples Street	1.00	220.03	1.34	0	0.39	1.31	0.00	0.40	0.00		7.76		
4501	4512	Naples Street	1.00	444.17	1.34	0	0.40	1.31	0.00	0.40	0.00		7.10		
4512	4526	Naples Street	1.00	440.25	2.45	0	0.37	1.62	0.00	0.43	0.00		10.63		
4526	4533	Naples Street	1.00	200.22	1.42	0	0.43	1.62	0.00	0.43	0.00		10.57		
4533	4542	Naples Street	1.00	246.39	1.42	0	0.43	1.62	0.00	0.43	0.00		11.02		
4542	4548	Naples Street	1.00	159.15	1.44	0	0.43	1.62	0.00	0.46	0.00		11.57		
4548	4555	Naples Street	1.00	277.90	1.44	0	0.46	1.62	0.00	0.46	0.00		11.54		
4555	4565	Naples Street	1.00	440.76	1.97	0	0.39	1.62	0.00	0.41	0.00		11.61		
4565	4578	Naples Street	1.00	440.88	1.61	0	0.41	1.62	0.00	0.45	0.00		14.59		
4578	4581	Naples Street	1.00	97.28	1.61	0	0.44	1.62	0.00	0.45	0.00		13.74		
4581	4590	Naples Street	1.00	342.85	2.53	0	0.37	1.62	0.00	0.46	0.00		13.63		
4590	4600	Naples Street	1.00	351.12	1.08	0	0.46	1.62	0.00	0.52	0.00		11.94		
4600	4604	Naples Street	1.00	89.42	0.72	0	0.52	1.62	0.00	0.52	0.00		12.08		
4604	4610	Naples Street	1.00	219.27	0.72	0	0.52	1.62	0.00	0.54	0.00		12.14		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4610	4616	Naples Street	1.00	230.66	0.72	0	0.54	1.62	0.00	0.54	0.00		12.28		
4616	4626	Naples Street	1.00	410.65	0.86	0	0.50	1.62	0.00	0.50	0.00		12.50		
4626	4639	Naples Street	1.00	378.78	0.86	0	0.49	1.62	0.00	0.50	0.00		14.51		
4639	4644	Naples Street	1.00	315.77	0.86	0	0.50	1.62	0.00	0.50	0.00		13.10		
4644	4655	Naples Street	1.00	344.66	0.86	0	0.49	1.62	0.00	0.50	0.00		13.91		
4655	4662	Naples Street	1.00	345.73	0.86	0	0.50	1.62	0.00	0.52	0.00		14.50		
4662	4669	Naples Street	1.00	353.33	0.88	0	0.52	1.62	0.00	0.52	0.00		14.08		
4669	4673	Naples Street	1.25	264.22	0.79	0	0.45	1.62	0.00	0.47	0.00		14.95		
4673	4642	Industrial Boulevard	1.25	443.44	0.31	0	0.59	1.62	0.00	0.48	0.00		13.41		
4642	4607	Industrial Boulevard	1.25	443.70	0.30	0	0.60	1.62	0.00	0.48	0.00		16.40		
4607	4567	Industrial Boulevard	1.25	437.53	0.30	0	0.59	1.62	0.00	0.65	0.00		14.41		
4508	4519	Moss Street	0.67	310.70	0.39	0	0.76	0.83	0.00	1.14	1.19	0.1	23.22	310.7	310.7
4519	4529	Moss Street	0.67	324.82	0.41	0	0.66	0.82	0.00	0.99	0.00		19.02	324.8	
4529	4536	Moss Street	0.67	322.72	0.40	0	0.66	0.82	0.00	0.99	0.00		17.36	322.7	
4536	4551	Moss Street	0.67	344.99	0.41	0	0.64	0.81	0.00	0.96	0.00		15.16	345.0	
4551	4562	Moss Street	0.83	362.06	0.44	0	0.52	0.81	0.00	0.62	0.00		10.19		
4562	4567	Moss Street	0.83	269.04	1.09	0	0.34	0.81	0.00	0.97	0.00		11.46	269.0	
4567	4525	Industrial Boulevard	1.25	454.27	0.29	0	0.81	2.59	0.00	0.65	0.00		13.93		
4525	4492	Industrial Boulevard	1.25	427.21	0.31	0	0.79	2.59	0.00	0.64	0.00		11.81		
4492	4455	Industrial Boulevard	1.25	443.21	0.30	0	0.80	2.59	0.00	0.64	0.00		12.00		
4455	4409	Industrial Boulevard	1.25	443.56	0.30	0	0.80	2.59	0.00	0.66	0.00		10.80		
4409	4369	Industrial Boulevard	1.25	446.18	0.30	0	0.82	2.59	0.00	0.66	0.00		11.08		
4369	4337	Industrial Boulevard	1.25	434.42	0.36	0	0.75	2.59	0.00	0.65	0.00		9.25		
4337	4328	K Street	1.25	262.09	0.28	0	0.81	2.59	0.00	0.68	0.00		13.31		
4328	4277	Colorado Avenue	1.25	497.59	0.30	0	0.85	2.77	0.00	0.68	0.00		10.81		
4277	4243	Colorado Avenue	1.30	443.41	0.32	0	0.79	2.77	0.00	0.75	0.00		10.77		
4243	4189	Colorado Avenue	1.25	372.58	0.28	0	0.97	2.76	0.00	1.09	0.00		9.20	372.6	372.6
4189	4207	J Street	2.00	281.50	0.32	0	1.42	10.91	0.00	0.71	0.00		11.75		
4207	4209	J Street	2.00	221.53	0.78	0	1.07	10.91	0.00	0.54	0.00		11.93		
4209	4233	J Street	2.00	414.75	0.91	0	1.02	10.91	0.00	0.51	0.00		5.98		
3294	3295	Bay Boulevard	1.50	306.37	0.18	0	0.18	0.11	0.00	0.12	0.00		5.80		
3295	3400	Bay Boulevard	1.50	310.84	0.26	0	0.15	0.12	0.00	0.12	0.00		4.88		
3400	3518	Bay Boulevard	1.50	344.16	0.22	0	0.17	0.11	0.00	0.12	0.00		6.16		
3518	3621	Bay Boulevard	1.50	328.42	0.29	0	0.17	0.12	0.00	0.12	0.00		6.43		
3621	3735	Bay Boulevard	1.50	329.51	0.29	0	0.17	0.11	0.00	0.12	0.00		5.88		
3735	3846	Bay Boulevard	1.75	330.83	0.17	0	0.19	0.12	0.00	0.42	0.00		5.83		
3578	3617	Between H Street & I Street	1.00	493.24	1.00	0	0.44	1.41	0.00	0.44	0.00		12.19		
3617	3639	Between H Street & I Street	1.00	121.91	1.03	0	0.43	1.41	0.00	0.44	0.00		9.98		
3639	3649	Between H Street & I Street	1.00	129.02	0.96	0	0.44	1.41	0.00	0.44	0.00		6.56		
3649	3676	Between H Street & I Street	1.00	259.96	1.00	0	0.44	1.41	0.00	0.44	0.00		6.56		
3676	3708	Between H Street & I Street	1.00	275.55	1.00	0	0.44	1.41	0.00	0.48	0.00		6.56		
3708	3736	Between H Street & I Street	1.00	262.60	0.98	0	0.48	1.41	0.00	0.48	0.00		6.52		
3736	3763	Between H Street & I Street	1.00	254.15	1.64	0	0.38	1.40	0.00	0.52	0.00		6.62		
3763	3818	Between H Street & I Street	1.25	389.87	0.37	0	0.52	1.40	0.00	0.45	0.00		6.48		
3818	3846	Between H Street & I Street	1.25	389.24	0.35	0	0.56	1.40	0.00	0.45	0.00		6.57		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
3846	3927	Bay Boulevard	1.75	330.47	0.06	0	0.73	1.50	0.00	0.42	0.00		5.34		
3927	3987	Bay Boulevard	1.75	331.07	0.12	0	0.64	1.50	0.00	0.37	0.00		6.13		
3987	4048	Bay Boulevard	1.75	331.46	0.18	0	0.56	1.50	0.00	0.44	0.00		6.60		
4048	4110	Bay Boulevard	1.75	333.27	0.05	0	0.77	1.50	0.00	0.44	0.00		8.48		
4110	4181	Bay Boulevard	1.75	331.70	0.06	0	0.74	1.50	0.00	0.42	0.00		8.68		
4181	4230	Bay Boulevard	1.75	326.05	0.16	0	0.63	1.50	0.00	0.36	0.00		7.48		
4230	4233	Bay Boulevard	1.00	24.84	6.04	0	0.29	1.50	0.00	0.91	0.00		10.71	24.8	
4474	4432	Bay Boulevard	1.00	432.31	0.30	0	0.27	0.32	0.00	0.27	0.00		10.15		
4432	4391	Bay Boulevard	1.00	447.94	0.30	0	0.27	0.32	0.00	0.27	0.00		8.95		
4391	4351	Bay Boulevard	1.00	434.79	0.30	0	0.27	0.32	0.00	0.27	0.00		6.79		
4351	4308	Bay Boulevard	1.00	439.89	0.30	0	0.27	0.32	0.00	0.30	0.00		6.09		
4308	4270	Bay Boulevard	1.00	418.02	0.22	0	0.30	0.32	0.00	0.30	0.00		5.38		
4270	4259	Bay Boulevard	1.00	170.70	0.22	0	0.29	0.32	0.00	0.33	0.00		4.31		
4259	4233	Bay Boulevard	1.00	295.92	0.22	0	0.33	0.32	0.00	0.33	0.00		4.65		
4233	BeginCV2	J Street	2.50	40.95	0.22	0	1.41	12.84	0.00	0.56	0.00		10.09		
BeginCV2	EndCV2	J Street	2.50	11.67	0.26	0	1.37	12.84	0.00	0.55	0.00		9.72		
EndCV2	4223	J Street	2.50	6.02	1.33	0	1.27	12.84	0.00	0.51	0.00		9.85		
4223	4219	J Street	2.50	11.67	0.26	0	1.37	12.84	0.00	0.55	0.00		9.72		
Main Street															
6279	4892	ROW	1.00	556.68	0.43	0	0.23	0.25	0.00	0.23	0.00		4.64		
4892	4891	ROW	1.00	234.97	0.48	0	0.22	0.25	0.00	0.22	0.00		12.67		
4891	4930	ROW	1.00	383.50	0.43	0	0.22	0.25	0.00	0.23	0.00		7.48		
4930	6304	ROW	1.00	250.68	0.49	0	0.23	0.25	0.00	0.23	0.00		9.58		
6304	6303	Loma Lane	0.67	243.38	1.16	0	0.20	0.25	0.00	0.30	0.00		15.23		
6303	6301	Loma Lane	0.67	346.39	1.17	0	0.20	0.25	0.00	0.40	0.00		13.37		
6301	6299	Loma Lane	0.67	28.52	0.42	0	0.26	0.25	0.00	0.40	0.00		3.30		
6299	6300	Orange Avenue	0.67	133.50	0.40	0	0.26	0.25	0.00	0.40	0.00		3.25		
6300	6309	Orange Avenue	0.67	98.25	0.41	0	0.26	0.25	0.00	0.40	0.00		3.01		
6309	6306	Orange Avenue	0.67	135.04	0.41	0	0.26	0.25	0.00	0.40	0.00		2.84		
6306	6331	Jade Court	0.67	401.01	0.40	0	0.26	0.25	0.00	0.40	0.00		6.61		
6331	6326	Jade Court	0.67	399.40	0.40	0	0.26	0.25	0.00	0.40	0.00		3.54		
6326	6327	Jade Court	0.67	300.88	0.40	0	0.26	0.25	0.00	0.48	0.00		12.34		
6327	6328	Jade Court	0.67	233.39	0.39	0	0.32	0.25	0.00	0.48	0.00		11.88		
6328	5874	Tourmaline Street	0.67	398.02	1.50	0	0.19	0.25	0.00	0.28	0.00		6.71		
5874	5872	Tourmaline Street	0.67	141.52	1.50	0	0.19	0.25	0.00	0.28	0.00		6.81		
5872	5873	Hilltop Drive	0.67	281.51	10.00	0	0.12	0.25	0.00	0.24	0.00		6.88		
5873	5883	Hilltop Drive	0.67	350.64	2.99	0	0.16	0.25	0.00	0.24	0.00		17.38		
5883	5882	Main Street	0.83	301.03	1.32	0	0.22	0.40	0.00	0.27	0.00		10.21		
5882	5881	Main Street	0.83	379.03	1.33	0	0.22	0.40	0.00	0.36	0.00		7.18		
5881	5880	Main Street	0.83	345.03	0.43	0	0.30	0.40	0.00	0.37	0.00		7.15		
5880	5879	Main Street	0.83	122.04	0.40	0	0.30	0.40	0.00	0.63	0.00		6.64		
5879	5890	Main Street	0.83	218.51	0.40	0	0.52	0.86	0.00	0.63	0.00		6.91		
5890	5889	Main Street	0.83	334.04	0.99	0	0.39	0.86	0.00	0.46	0.00		6.92		
5889	5888	Main Street	0.83	340.53	1.35	0	0.33	0.86	0.00	0.43	0.00		7.29		
5888	5887	Main Street	0.83	334.03	1.15	0	0.36	0.86	0.00	0.43	0.00		7.87		
5887	5886	Main Street	0.83	318.02	1.31	0	0.34	0.86	0.00	0.44	0.00		6.72		
5886	5130	Main Street	0.83	333.02	1.17	0	0.37	0.86	0.00	0.44	0.00		7.85		
5130	5129	Main Street	0.83	332.02	1.52	0	0.32	0.86	0.00	0.44	0.00		6.78		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5129	5127	Main Street	0.83	327.04	0.97	0	0.37	0.86	0.00	0.59	0.00		6.77		
5127	5126	Main Street	0.83	326.03	0.36	0	0.49	0.86	0.00	0.80	0.00		6.82		
5126	5125	Main Street	0.83	344.04	0.21	0	0.67	0.86	0.00	0.80	0.00		5.81		
5125	5124	Main Street	0.83	314.52	0.56	0	0.43	0.86	0.00	1.32	0.00		6.76	314.5	314.5
4753	4795	Second Avenue	1.25	352.98	0.67	0	0.52	1.69	0.00	0.49	0.00		6.48		
4795	4842	Second Avenue	1.25	319.60	0.67	0	0.61	1.68	0.00	0.52	0.00		6.39		
4842	4849	Quintard Street	1.25	198.09	0.67	0	0.65	1.69	0.00	0.84	0.00		14.32		
4849	4859	Quintard Street	1.25	225.76	0.95	0	1.05	1.66	0.00	2.45	0.00		11.29	225.8	225.8
4859	4864	Quintard Street	1.25	117.13	0.78	0	3.07	1.66	0.00	3.12	6.38	1.8	8.41	117.1	117.1
4864	4866	Quintard Street	1.25	103.53	0.78	0	3.90	1.66	0.00	3.72	12.32	2.7	8.31	103.5	103.5
4866	4897	Private Road	0.67	284.27	0.67	0	4.65	1.66	0.00	6.97	15.62	4.0	8.22	284.3	284.3
4867	4894	Private Road	0.67	275.92	0.67	0	0.18	0.16	0.00	0.44	0.00		12.66		
4894	4897	Private Road	1.00	12.15	0.66	Note (1)	0.29	-0.40	0.00	0.00	0.00		12.91		
4897	4948	Private Road	1.00	576.78	0.67	0	0.46	1.26	0.00	0.50	0.00		12.82		
4948	4945	Orange Avenue	1.00	371.38	0.52	0	0.49	1.26	0.00	0.60	0.00		13.64		
4945	4941	Orange Avenue	1.00	370.35	0.28	0	0.60	1.26	0.00	0.62	0.00		7.67		
4941	4957	Third Avenue	1.00	357.77	0.26	0	0.62	1.26	0.00	0.64	0.00		8.47		
4957	4979	Third Avenue	1.00	350.41	0.23	0	0.64	1.26	0.00	0.70	0.00		9.57		
4979	4999	Third Avenue	1.00	355.77	0.22	0	0.70	1.26	0.00	0.70	0.00		14.11		
4999	5036	Third Avenue	1.00	394.53	0.41	0	0.53	1.26	0.00	0.66	0.00		15.06		
5036	5035	Tremont Street	1.00	8.52	0.35	0	0.66	1.46	0.00	0.66	0.00		8.72		
4894	4924	Private Road	1.00	298.50	0.68	0	0.29	0.55	0.00	0.29	0.00		12.91		
4924	4946	Private Road	1.00	265.80	0.67	0	0.29	0.55	0.00	0.35	0.00		13.39		
4946	4947	Private Road	1.00	15.51	0.64	0	0.35	0.55	0.00	0.35	0.00		11.62		
4947	4944	Orange Avenue	1.00	343.19	0.52	0	0.31	0.55	0.00	0.37	0.00		13.76		
4944	4939	Orange Avenue	1.00	383.45	0.27	0	0.37	0.55	0.00	0.51	0.00		7.50		
4939	4940	Orange Avenue	1.00	7.35	0.27	0	0.51	0.55	0.00	0.51	0.00		8.41		
4940	4958	Third Avenue	1.00	367.92	0.26	0	0.50	0.93	0.00	0.53	0.00		8.44		
4958	4980	Third Avenue	1.00	350.76	0.23	0	0.53	0.93	0.00	0.57	0.00		9.56		
4980	5000	Third Avenue	1.00	355.90	0.22	0	0.56	0.93	0.00	0.57	0.00		14.13		
5000	5035	Third Avenue	1.00	384.04	0.41	0	0.47	0.93	0.00	0.47	0.00		15.00		
5035	5034	Tremont Street	1.00	296.01	1.21	0	0.54	2.39	0.00	0.60	0.00		8.70		
5034	5039	Tremont Street	1.00	15.70	1.21	0	0.60	1.37	0.00	0.74	0.00		6.53		
5039	5037	Tremont Street	1.00	347.54	0.25	0	0.74	1.37	0.00	0.74	0.00		6.28		
5034	5032	Tremont Street	1.00	361.00	0.25	0	0.60	1.02	0.00	0.60	0.00		6.53		
5032	5037	Tremont Street	1.00	9.70	1.62	0	0.44	1.02	0.00	0.48	0.00		8.29		
5037	5053	Fresno Avenue	1.00	371.40	2.07	0	0.48	2.39	0.00	0.55	0.00		8.41		
5053	5088	Fresno Avenue	1.00	370.88	1.33	0	0.55	2.39	0.00	0.56	0.00		7.64		
5088	5092	Fresno Avenue	1.00	8.63	1.28	0	0.56	1.33	0.00	0.56	0.00		9.03		
5092	5123	Fresno Avenue	1.00	378.13	0.40	0	0.55	1.33	0.00	1.05	0.00		9.07	378.1	378.1

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
5088	5095	Fresno Avenue	1.00	11.60	0.36	0	0.56	1.06	0.00	0.56	0.00		9.03		
5095	5124	Fresno Avenue	1.00	378.00	0.36	0	0.50	1.06	0.00	1.07	0.00		9.05	378.0	378.0
5124	5123	Main Street	0.83	8.55	2.11	0	1.10	1.90	0.00	1.32	2.49	0.3	7.84	8.5	8.5
5123	5122	Main Street	1.26	362.51	0.31	0	1.05	3.22	0.00	0.84	0.00		7.07		
5122	5121	Main Street	1.25	350.51	0.92	0	0.64	3.22	0.00	0.93	0.00		8.59	350.5	
5121	5119	Main Street	1.25	310.51	0.21	0	1.16	3.34	0.00	0.93	0.00		9.31	310.5	
5119	5118	Main Street	1.25	345.01	0.28	0	1.02	3.34	0.00	0.82	0.00		8.10		
5118	5117	Main Street	1.25	415.51	0.40	0	0.89	3.34	0.00	0.71	0.00		7.19		
5117	5116	Main Street	1.25	411.51	0.52	0	0.80	3.34	0.00	0.64	0.00		6.95		
5116	5115	Main Street	1.25	400.51	0.66	0	0.77	3.34	0.00	0.61	0.00		7.30		
5115	5114	Main Street	1.25	400.04	0.88	0	0.66	3.34	0.00	0.53	0.00		7.86		
5114	5113	Main Street	1.25	402.05	0.88	0	0.66	3.34	0.00	0.53	0.00		7.38		
5113	5112	Main Street	1.25	398.05	0.87	0	0.67	3.34	0.00	0.60	0.00		7.70		
5112	5111	Main Street	1.25	400.07	0.60	0	0.75	3.34	0.00	0.72	0.00		7.78		
5111	5110	Main Street	1.25	277.03	0.36	0	0.90	3.34	0.00	0.85	0.00		7.52	277.0	
5110	5109	Main Street	1.25	109.51	0.36	0	1.07	3.58	0.00	0.94	0.00		7.62	109.5	
5109	5107	Main Street	1.25	392.56	0.32	0	1.17	3.58	0.00	0.94	0.00		7.63	392.6	
5107	5106	Main Street	1.25	399.54	0.72	0	0.73	3.57	0.00	0.60	0.00		7.31		
4595	4608	Oxford Street	1.00	440.65	0.42	0	0.46	1.00	0.00	0.46	0.00		15.59		
4608	4620	Oxford Street	1.00	440.97	0.42	0	0.46	1.00	0.00	0.46	0.00		10.94		
4620	4631	Oxford Street	1.00	440.61	0.42	0	0.46	1.00	0.00	0.47	0.00		12.04		
4631	4640	Oxford Street	1.00	344.36	0.67	0	0.47	1.30	0.00	0.47	0.00		8.13		
4640	4646	Oxford Street	1.00	332.82	0.66	0	0.47	1.30	0.00	0.58	0.00		7.93		
4646	4651	Oxford Street	1.00	111.17	0.32	0	0.58	1.30	0.00	0.64	0.00		7.62		
4651	4657	Oxford Street	1.00	209.71	0.33	0	0.64	1.30	0.00	0.64	0.00		7.57		
4657	4664	Oxford Street	1.00	326.32	0.83	0	0.44	1.30	0.00	0.68	0.00		7.81		
4664	4670	Oxford Street	1.00	270.98	0.25	0	0.68	1.30	0.00	0.68	0.00		6.18		
4670	4674	Oxford Street	1.00	372.42	0.53	0	0.50	1.30	0.00	0.65	0.00		8.25		
4674	4679	Oxford Street	1.00	324.74	0.53	0	0.64	1.30	0.00	0.65	0.00		10.07		
4679	4683	Oxford Street	1.00	351.98	4.20	0	0.29	1.30	0.00	0.30	0.00		2.44		
4683	*4688*	*Oxford Street*	*1.00*	*342.82*	*3.64*	*0*	*0.30*	*1.30*	*0.00*	*0.50*	*0.00*		*6.71*		
4688	4701	Oxford Street	1.00	325.73	0.54	0	0.50	1.30	0.00	0.59	0.00		8.00		
4701	4712	Oxford Street	1.00	310.47	0.59	0	0.59	1.30	0.00	0.59	0.00		6.28		
4712	4722	Oxford Street	1.00	314.61	2.60	0	0.32	1.30	0.00	0.82	0.00		5.79		
4722	4726	Oxford Street	1.00	69.26	0.27	0	0.82	2.11	0.00	0.82	0.00		11.46		
4726	4733	Oxford Street	1.00	400.65	0.51	0	0.69	2.11	0.00	0.82	0.00		11.78		
4733	4749	Oxford Street	1.00	374.44	0.45	0	0.82	2.11	0.00	0.82	0.00		8.20		
4749	4763	Oxford Street	1.00	321.58	0.95	0	0.60	2.11	0.00	0.60	0.00		8.11		
4763	4765	Oxford Street	1.00	53.60	1.32	0	0.51	2.11	0.00	0.87	0.00		8.94	53.6	
4765	4778	Oxford Street	1.25	407.41	0.16	0	0.87	2.11	0.00	0.70	0.00		8.90		
4778	4794	Oxford Street	1.25	363.32	0.15	0	0.88	2.11	0.00	0.70	0.00		5.23		
4794	4823	Industrial Boulevard	1.25	203.34	0.17	0	0.85	2.11	0.00	0.68	0.00		6.86		
4823	4828	Industrial Boulevard	1.25	35.08	0.17	0	0.58	1.01	0.00	0.47	0.00		9.57		
4828	4856	Industrial Boulevard	1.25	213.80	0.16	0	0.59	1.01	0.00	0.64	0.00		9.92		
4856	4893	Industrial Boulevard	1.25	350.19	0.17	0	0.80	1.97	0.00	0.66	0.00		11.86		
4893	4933	Industrial Boulevard	1.25	378.64	0.16	0	0.82	1.97	0.00	0.66	0.00		14.03		
4933	4950	Industrial Boulevard	1.25	334.24	0.16	0	0.81	1.97	0.00	0.66	0.00		14.14		

Ultimate Conditions, Wet Weather
North-West Model, Steering Alternative

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
4950	4970	Industrial Boulevard	1.25	326.12	0.16	0	0.82	1.97	0.00	0.66	0.00		13.00		
4970	4987	Industrial Boulevard	1.25	329.04	0.16	0	0.81	1.97	0.00	0.71	0.00		15.01		
4987	5007	Industrial Boulevard	1.25	322.77	0.16	0	0.88	1.97	0.00	0.71	0.00		15.78		
5007	5045	Industrial Boulevard	1.00	446.39	1.05	0	0.52	1.97	0.00	0.61	0.00		15.53		
4823	4858	Industrial Boulevard	1.25	253.04	0.17	0	0.58	1.10	0.00	0.46	0.00		9.57		
4858	4895	Industrial Boulevard	1.25	350.94	0.25	0	0.50	1.10	0.00	0.57	0.00		12.34		
4895	4935	Industrial Boulevard	1.25	378.21	0.07	0	0.72	1.10	0.00	0.57	0.00		14.44		
4935	4949	Industrial Boulevard	1.25	328.81	0.16	0	0.57	1.10	0.00	0.54	0.00		14.35		
4949	4952	Industrial Boulevard	1.25	49.00	0.12	0	0.67	1.10	0.00	0.55	0.00		6.33		
4952	4972	Industrial Boulevard	1.25	280.81	0.16	0	0.69	1.53	0.00	0.55	0.00		12.70		
4972	4989	Industrial Boulevard	1.25	328.25	0.17	0	0.68	1.53	0.00	0.66	0.00		15.07		
4989	5006	Industrial Boulevard	1.25	322.09	0.11	0	0.82	1.53	0.00	0.66	0.00		15.83		
5006	5044	Industrial Boulevard	1.00	423.55	1.09	0	0.45	1.53	0.00	0.49	0.00		15.52		
5044	5045	Industrial Boulevard	1.00	26.29	1.03	0	0.49	1.53	0.00	0.61	0.00		14.69		
5045	5058	Industrial Boulevard	1.00	209.64	2.09	0	0.61	3.50	0.00	0.61	0.00		14.34		
5058	5079	Industrial Boulevard	1.00	241.76	2.16	0	0.60	3.50	0.00	0.79	0.00		6.40		
5079	5106	Industrial Boulevard	1.00	444.64	1.05	0	0.79	3.50	0.00	1.03	0.00		6.21	444.6	444.6
5106	5144	Industrial Boulevard	1.48	429.64	0.51	0	1.18	7.05	0.00	0.81	0.00		7.17		
5144	5155	Industrial Boulevard	1.50	235.26	0.47	0	1.20	7.05	0.00	0.80	0.00		7.52		

Note (1) Adverse flow through pipe section. There is capacity in parrallel line, flow diversion alternatives should be addressed.

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Salt Creek															
450	449	Hunte Parkway	1.25	105.77	0.55	292,003	0.36	0.81	0.00	0.29	0.00				
449	448	Hunte Parkway	1.25	379.39	0.64	292,003	0.35	0.81	0.00	0.28	0.00				
448	447	Hunte Parkway	1.25	408.57	0.58	292,003	0.35	0.81	0.00	0.28	0.00				
447	446	Hunte Parkway	1.25	337.88	0.61	292,003	0.40	0.81	0.00	0.32	0.00				
446	445	Hunte Parkway	1.25	394.30	0.68	292,003	0.40	0.81	0.00	0.32	0.00				
445	444	Hunte Parkway	1.25	308.72	5.33	292,003	0.23	0.81	0.00	0.19	0.00				
444	443	Hunte Parkway	1.25	96.00	15.71	292,003	0.26	0.81	0.00	0.21	0.00				
443	442	Hunte Parkway	1.25	307.73	3.46	422,853	0.36	1.17	0.00	0.29	0.00				
442	441	Hunte Parkway	1.25	401.73	1.01	422,853	0.39	1.17	0.00	0.31	0.00				
441	440	Hunte Parkway	1.25	378.20	1.21	422,853	0.39	1.17	0.00	0.31	0.00				
440	439	Hunte Parkway	1.25	358.00	2.50	422,853	0.38	1.17	0.00	0.31	0.00				
439	438	Hunte Parkway	1.25	344.42	1.10	422,853	0.38	1.17	0.00	0.31	0.00				
438	437	Hunte Parkway	1.25	317.38	1.83	422,853	0.31	1.17	0.00	0.25	0.00				
437	436	Hunte Parkway	1.25	374.80	3.56	576,233	0.42	1.58	0.00	0.34	0.00				
436	435	Salt Creek	1.25	389.97	1.05	576,233	0.42	1.58	0.00	0.34	0.00				
435	434	Salt Creek	1.25	235.33	1.08	576,233	0.42	1.58	0.00	0.33	0.00				
434	433	Salt Creek	1.25	392.07	1.05	576,233	0.42	1.58	0.00	0.33	0.00				
433	432	Salt Creek	1.25	291.03	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
432	431	Salt Creek	1.25	288.71	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
431	430	Salt Creek	1.25	357.00	2.38	576,233	0.51	1.58	0.00	0.40	0.00				
430	429	Salt Creek	1.50	535.98	0.38	576,233	0.68	1.58	0.00	0.45	0.00				
429	428	North Creekside Drive	1.50	56.66	1.78	1,955,233	0.68	5.34	0.00	0.45	0.00				
428	427	North Creekside Drive	1.50	127.29	3.10	1,955,233	0.55	5.34	0.00	0.37	0.00				
427	426	North Creekside Drive	1.50	179.38	3.08	1,955,233	0.56	5.34	0.00	0.37	0.00				
426	425	North Creekside Drive	1.50	322.07	3.00	1,955,233	0.99	5.34	0.00	0.66	0.00				
425	424	North Creekside Drive	1.50	391.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
424	423	North Creekside Drive	1.50	337.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
423	422	North Creekside Drive	1.50	320.00	0.52	1,955,233	1.13	5.34	0.00	0.75	0.00				
422	421	North Creekside Drive	1.50	375.23	0.34	1,955,233	1.13	5.34	0.00	0.75	0.00				
421	420	South Creekside Drive	1.50	214.58	0.45	1,955,233	0.98	5.34	0.00	0.66	0.00				
420	419	South Creekside Drive	1.50	279.18	0.44	1,955,233	1.00	5.34	0.00	0.66	0.00				
419	418	South Creekside Drive	1.50	331.52	0.43	1,955,233	1.00	5.34	0.00	0.66	0.00				
418	417	*South Creekside Drive*	*1.50*	*234.29*	*0.44*	*1,955,233*	*0.99*	*5.34*	0.00	0.66	0.00				
417	416	South Creekside Drive	1.50	376.84	0.43	1,955,233	0.99	5.34	0.00	0.66	0.00				
416	415	Salt Creek	1.50	183.28	8.21	2,085,150	0.68	5.69	0.00	0.45	0.00				
415	414	Salt Creek	1.50	291.21	1.64	2,085,150	1.00	5.69	0.00	0.67	0.00				
414	413	Salt Creek	1.50	295.00	1.22	2,085,150	1.00	5.69	0.00	0.67	0.00				
413	379	Salt Creek	1.50	33.00	13.33	2,085,150	0.84	5.69	0.00	0.56	0.00				
379	380	Salt Creek	1.50	9.13	3.07	2,243,246	0.84	6.12	0.00	0.56	0.00				
380	381	Salt Creek	1.75	151.45	0.89	2,243,246	0.84	6.12	0.00	0.48	0.00				
381	378	Salt Creek	1.75	24.99	3.32	2,243,246	0.57	6.12	0.00	0.33	0.00				
378	410	Salt Creek	1.75	8.48	3.30	2,243,246	0.77	6.12	0.00	0.44	0.00				
410	377	Salt Creek	1.75	91.18	6.35	2,243,246	0.52	6.12	0.00	0.30	0.00				
377	362	Salt Creek	1.75	173.33	1.20	2,243,246	0.72	6.12	0.00	0.41	0.00				
362	360	Salt Creek	1.75	346.73	1.07	2,243,246	0.74	6.12	0.00	0.42	0.00				
360	358	Salt Creek	1.75	609.66	2.01	2,243,246	0.62	6.12	0.00	0.35	0.00				
358	359	Salt Creek	1.75	563.95	0.86	2,243,246	0.79	6.12	0.00	0.45	0.00				
359	357	Salt Creek	1.75	596.82	1.57	2,243,246	0.67	6.12	0.00	0.38	0.00				
357	356	Salt Creek	2.00	470.93	0.86	2,387,691	0.77	6.51	0.00	0.38	0.00				
356	355	Salt Creek	2.00	510.27	1.85	2,387,691	0.62	6.51	0.00	0.31	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
355	354	Salt Creek	2.00	511.11	1.26	2,387,691	0.69	6.51	0.00	0.35	0.00				
354	353	Salt Creek	2.00	509.76	0.82	2,387,691	0.78	6.51	0.00	0.39	0.00				
353	352	Salt Creek	2.00	507.69	1.55	2,387,691	0.65	6.51	0.00	0.33	0.00				
352	351	Salt Creek	2.00	501.74	1.72	2,387,691	0.78	6.51	0.00	0.39	0.00				
351	350	Salt Creek	2.00	17.39	0.52	2,387,691	0.98	6.51	0.00	0.49	0.00				
350	349	Salt Creek	2.00	403.13	0.32	2,387,691	1.06	6.51	0.00	0.53	0.00				
349	348	Salt Creek	2.00	20.69	0.29	2,387,691	1.01	6.51	0.00	0.50	0.00				
383	384	ROW	1.00	231.56	0.46	224,340	0.37	0.68	0.00	0.37	0.00				
384	386	ROW	1.00	260.50	0.50	224,340	0.35	0.68	0.00	0.35	0.00				
386	392	ROW	1.00	241.51	0.50	224,340	0.39	0.68	0.00	0.39	0.00				
392	394	ROW	1.00	246.51	0.57	224,340	0.39	0.68	0.00	0.39	0.00				
394	396	ROW	1.00	236.89	1.37	224,340	0.44	0.68	0.00	0.44	0.00				
396	398	ROW	1.00	278.84	0.54	224,340	0.44	0.68	0.00	0.44	0.00				
398	400	ROW	1.00	130.87	8.38	224,340	0.20	0.68	0.00	0.20	0.00				
400	402	ROW	1.00	357.70	19.82	224,340	0.16	0.68	0.00	0.16	0.00				
402	404	ROW	1.00	116.69	11.54	224,340	0.17	0.68	0.00	0.17	0.00				
404	406	ROW	1.00	168.74	9.15	224,340	0.17	0.68	0.00	0.17	0.00				
406	348	ROW	1.00	100.00	0.50	224,340	0.37	0.68	0.00	0.37	0.00				
348	347	Salt Creek	2.00	566.14	0.32	2,612,031	1.13	7.13	0.00	0.57	0.00				
347	282	Salt Creek	2.00	254.00	0.97	2,612,031	0.78	7.13	0.00	0.39	0.00				
282	280	Salt Creek	2.00	83.41	8.38	2,612,031	1.31	7.13	0.00	0.65	0.00				
280	278	Salt Creek	2.00	316.64	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
278	276	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
276	274	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
274	272	Salt Creek	2.00	187.39	0.23	3,040,941	1.29	8.29	0.00	0.65	0.00				
272	270	Salt Creek	2.00	164.52	0.26	3,040,941	1.25	8.29	0.00	0.62	0.00				
270	412	Salt Creek	2.00	200.00	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
412	268	Salt Creek	2.00	217.87	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
268	266	Salt Creek	2.00	146.46	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
266	264	Salt Creek	2.00	220.48	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
264	262	Salt Creek	2.00	348.89	6.31	3,040,941	0.54	8.29	0.00	0.27	0.00				
262	341	Salt Creek	2.00	283.32	5.29	3,040,941	0.57	8.29	0.00	0.29	0.00				
341	260	Salt Creek	2.00	400.00	4.25	3,040,941	0.76	8.29	0.00	0.38	0.00				
260	258	Salt Creek	2.00	377.80	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
258	256	Salt Creek	2.00	328.20	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
256	376	Salt Creek	2.00	195.00	0.37	3,040,941	1.24	8.29	0.00	0.62	0.00				
376	389	Salt Creek	2.50	2.44	41.07	3,040,941	0.56	8.29	0.00	0.22	0.00				
389	375	Salt Creek	2.50	31.29	12.40	3,040,941	1.16	8.29	0.00	0.46	0.00				
375	252	Salt Creek	2.50	299.47	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
252	250	Salt Creek	2.50	411.56	0.11	3,040,941	1.38	8.29	0.00	0.55	0.00				
250	374	Salt Creek	2.50	305.03	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
374	244	Salt Creek	2.50	79.41	5.69	3,040,941	0.97	8.29	0.00	0.39	0.00				
244	242	Salt Creek	2.50	257.58	0.41	3,040,941	1.09	8.29	0.00	0.44	0.00				
242	240	Salt Creek	2.50	521.21	0.37	3,040,941	1.09	8.29	0.00	0.44	0.00				
240	238	Salt Creek	2.50	175.33	0.77	3,040,941	0.82	8.29	0.00	0.33	0.00				
238	236	Salt Creek	2.50	78.10	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
236	234	Salt Creek	2.50	565.71	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
234	232	Wiley Road	2.50	564.76	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
232	230	Wiley Road	2.50	312.34	1.54	3,040,941	0.97	8.29	0.00	0.39	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
230	222	Wiley Road	2.50	596.77	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
222	220	Wiley Road	2.50	593.55	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
220	218	Wiley Road	2.50	519.36	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
218	216	Wiley Road	2.50	600.00	0.31	3,417,821	1.18	9.38	0.00	0.47	0.00				
216	214	Wiley Road	2.50	600.00	1.06	3,417,821	1.26	9.38	0.00	0.50	0.00				
214	212	Wiley Road	3.00	510.21	0.26	5,719,556	1.46	15.66	0.00	0.49	0.00				
212	210	Wiley Road	3.00	342.11	0.19	5,719,556	1.57	15.66	0.00	0.52	0.00				
210	208	Wiley Road	3.00	353.81	0.19	5,719,556	1.59	15.66	0.00	0.53	0.00				
208	206	Wiley Road	3.00	289.47	0.19	5,719,556	1.56	15.66	0.00	0.52	0.00				
206	204	Wiley Road	3.00	600.00	0.19	5,719,556	1.66	15.66	0.00	0.55	0.00				
204	202	Wiley Road	3.00	484.48	0.58	5,719,556	1.14	15.66	0.00	0.38	0.00				
202	200	Wiley Road	3.00	594.83	0.58	5,719,556	1.14	15.66	0.00	0.38	0.00				
200	198	Wiley Road	3.00	593.10	0.58	5,719,556	1.14	15.66	0.00	0.38	0.00				
198	196	Wiley Road	3.00	594.83	0.58	5,719,556	1.14	15.66	0.00	0.38	0.00				
196	194	Wiley Road	3.00	600.00	0.58	5,719,556	1.15	15.66	0.00	0.38	0.00				
194	192	Wiley Road	3.00	389.66	0.58	5,719,556	1.14	15.66	0.00	0.38	0.00				
192	190	Wiley Road	3.00	439.85	0.58	5,719,556	1.15	15.66	0.00	0.38	0.00				
190	188	Wiley Road	3.00	304.50	2.00	5,719,556	1.40	15.66	0.00	0.47	0.00				
188	186	Wiley Road	3.00	470.08	0.19	5,719,556	1.60	15.66	0.00	0.53	0.00				
186	184	Wiley Road	3.00	600.00	0.19	5,719,556	1.60	15.66	0.00	0.53	0.00				
184	182	Wiley Road	3.00	599.29	0.19	5,719,556	1.66	15.66	0.00	0.55	0.00				
182	180	Wiley Road	3.00	594.29	1.40	5,719,556	0.91	15.66	0.00	0.30	0.00				
180	178	Wiley Road	3.50	585.97	0.57	5,719,556	1.29	15.66	0.00	0.37	0.00				
178	176	Wiley Road	3.50	524.66	0.19	5,719,556	1.49	15.66	0.00	0.42	0.00				
176	175	Wiley Road	3.50	584.91	0.19	5,719,556	1.51	15.66	0.00	0.43	0.00				
175	373	Wiley Road	3.50	289.47	0.19	5,719,556	1.46	15.66	0.00	0.42	0.00				
373	372	Wiley Road	3.50	115.79	0.19	5,719,556	1.39	15.66	0.00	0.40	0.00				
372	168	Wiley Road	3.50	302.36	0.19	5,719,556	1.46	15.66	0.00	0.42	0.00				
168	166	Wiley Road	3.50	320.42	0.19	5,719,556	1.47	15.66	0.00	0.42	0.00				
166	164	Wiley Road	3.50	426.73	0.19	5,719,556	1.47	15.66	0.00	0.42	0.00				
164	162	Wiley Road	3.50	438.74	0.19	5,719,556	1.49	15.66	0.00	0.42	0.00				
162	160	Wiley Road	3.50	438.74	0.19	5,719,556	1.49	15.66	0.00	0.43	0.00				
160	157	Wiley Road	3.50	300.00	0.19	5,719,556	1.54	15.66	0.00	0.44	0.00				
157	155	Wiley Road	3.50	494.75	0.19	7,573,188	1.74	20.58	0.00	0.50	0.00				
155	153	Wiley Road	3.50	431.11	0.45	7,573,188	1.42	20.58	0.00	0.40	0.00				
153	151	Wiley Road	3.50	593.02	0.89	7,573,188	1.51	20.58	0.00	0.43	0.00				
151	149	Wiley Road	3.50	600.00	0.28	7,573,188	1.89	20.58	0.00	0.54	0.00				
149	371	Wiley Road	3.50	684.38	0.28	8,101,559	1.89	24.98	0.00	0.54	0.00				
371	145	Wiley Road	3.50	344.92	1.30	8,101,559	1.16	24.98	0.00	0.33	0.00				
145	143	Wiley Road	3.50	443.27	1.09	8,101,559	2.23	24.98	0.00	0.64	0.00				
143	141	Main Street	3.50	521.85	0.10	8,101,559	2.23	24.98	0.00	0.64	0.00				
141	139	Main Street	3.50	600.00	0.17	8,101,559	2.32	24.98	0.00	0.66	0.00				
139	137	Main Street	3.50	600.00	0.10	8,101,559	2.34	24.97	0.00	0.67	0.00				
137	345	Main Street	3.50	136.04	0.10	8,101,559	2.34	24.97	0.00	0.67	0.00				
345	135	Main Street	3.50	456.45	0.10	8,101,559	2.34	24.97	0.00	0.67	0.00				
135	133	Main Street	3.50	600.00	0.10	8,101,559	2.33	24.97	0.00	0.67	0.00				
133	128	Main Street	3.50	600.00	0.10	8,101,559	2.30	24.97	0.00	0.66	0.00				
128	127	Main Street	3.75	600.00	0.10	8,101,559	2.23	24.97	0.00	0.59	0.00				
127	130	Main Street	3.75	600.00	0.10	8,101,559	2.21	24.96	0.00	0.59	0.00				
130	125	Main Street	3.75	600.00	0.10	8,101,559	2.22	24.96	0.00	0.59	0.00				
125	123	Main Street	3.75	600.00	0.10	8,101,559	2.23	24.96	0.00	0.59	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Max Surcharge Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
123	121	Main Street	3.75	73.17	0.10	8,101,559	2.23	24.96	0.00	0.59	0.00				
121	119	Main Street	3.75	265.39	0.10	8,101,559	2.23	24.96	0.00	0.59	0.00				
119	117	Main Street	3.75	73.17	0.10	8,101,559	2.23	24.95	0.00	0.59	0.00				
117	115	Main Street	3.75	199.38	0.10	8,101,559	2.23	24.95	0.00	0.59	0.00				
115	113	Main Street	3.75	600.03	0.10	8,101,559	2.22	24.95	0.00	0.59	0.00				
113	111	Main Street	3.75	600.00	0.10	8,101,559	2.25	24.95	0.00	0.60	0.00				
111	408	Main Street	3.75	228.15	0.10	8,101,559	2.27	24.95	0.00	0.61	0.00				
408	109	Main Street	3.75	371.85	0.10	8,101,559	2.32	24.94	0.00	0.62	0.00				
109	107	Main Street	3.75	146.76	0.10	8,101,559	2.34	24.94	0.00	0.62	0.00				
107	86	Main Street	3.50	955.55	0.10	8,101,559	2.34	24.94	0.00	0.67	0.00				
86	85	Main Street	3.50	566.85	0.10	8,101,559	2.28	24.94	0.00	0.65	0.00				
85	84	Main Street	3.50	287.69	0.10	8,101,559	2.21	24.94	0.00	0.63	0.00				
84	83	Main Street	3.50	399.00	0.10	8,101,559	2.13	24.94	0.00	0.61	0.00				
344	83	Main Street	1.75	18.31	17.64	3,339,755	1.24	8.58	0.00	0.71	0.00				
83	81	Main Street	3.50	269.13	1.49	11,441,314	1.81	33.02	0.00	0.52	0.00				
81	70	Otay Valley Road	3.50	13.04	0.23	11,441,314	1.91	33.02	0.00	0.55	0.00				
70	80	Otay Valley Road	3.50	42.11	0.19	11,441,314	1.89	33.02	0.00	0.54	0.00				
80	79	Otay Valley Road	3.50	57.60	1.25	11,441,314	1.30	33.02	0.00	0.37	0.00				
79	78	Otay Valley Road	3.50	84.80	1.25	11,441,314	1.30	33.02	0.00	0.37	0.00				
78	77	Otay Valley Road	3.50	77.95	1.27	11,441,314	1.29	33.02	0.00	0.37	0.00				
77	76	Otay Valley Road	3.50	293.53	1.39	11,441,314	1.26	33.02	0.00	0.36	0.00				
76	75	Otay Valley Road	3.50	283.01	1.53	11,441,314	1.86	33.02	0.00	0.53	0.00				
75	74	Otay Valley Road	3.50	12.00	0.25	11,441,314	1.96	33.02	0.00	0.56	0.00				
74	73	Otay Valley Road	3.50	84.00	0.25	11,441,314	1.96	33.02	0.00	0.56	0.00				
73	82	Otay Valley Road	3.50	212.52	0.25	11,441,314	1.97	33.02	0.00	0.56	0.00				
82	72	Otay Valley Road	3.50	172.00	0.25	11,441,314	2.04	33.02	0.00	0.58	0.00				
72	71	Otay Valley Road	3.50	133.42	0.25	11,441,314	2.07	33.02	0.00	0.59	0.00				
71	55	Otay Valley Road	3.50	400.72	0.22	11,441,314	2.17	33.02	0.00	0.62	0.00				
55	54	Otay Valley Road	3.50	18.18	0.22	11,441,314	1.88	33.02	0.00	0.54	0.00				
54	62	Date Street	3.50	78.37	0.32	11,441,314	1.85	33.02	0.00	0.53	0.00				
62	61	Date Street	3.50	8.00	1.50	11,441,314	1.78	33.02	0.00	0.51	0.00				
61	53	Main Street	3.50	204.72	1.06	11,441,314	1.36	33.02	0.00	0.39	0.00				
53	65	Main Street	3.50	129.73	1.11	11,441,314	1.82	33.02	0.00	0.52	0.00				
65	66	Main Street	3.50	532.35	0.34	11,441,314	1.92	33.02	0.00	0.55	0.00				
66	60	Main Street	3.50	497.04	1.35	11,441,314	1.27	33.02	0.00	0.36	0.00				
60	59	Main Street	3.50	26.77	1.27	11,441,314	1.33	33.02	0.00	0.38	0.00				
59	58	Main Street	3.50	502.70	1.10	11,441,314	1.98	33.02	0.00	0.57	0.00				
58	57	Main Street	3.50	600.00	0.28	11,441,314	2.08	33.02	0.00	0.59	0.00				
57	68	Main Street	3.50	584.68	1.24	11,441,314	1.30	33.02	0.00	0.37	0.00				
68	67	Main Street	3.50	579.67	1.23	11,441,314	1.31	33.02	0.00	0.37	0.00				
67	56	Main Street	3.50	41.58	2.02	11,441,314	1.16	33.02	0.00	0.33	0.00				
56	63	Main Street	3.50	504.48	1.34	11,441,314	1.29	33.02	0.00	0.37	0.00				
63	64	Main Street	3.50	467.01	0.97	11,441,314	1.68	33.02	0.00	0.48	0.00				
64	69	Main Street	3.50	65.85	0.41	11,441,314	1.78	33.02	0.00	0.51	0.00				
69	100	Main Street	3.50	600.00	0.41	11,441,314	2.09	33.02	0.00	0.60	0.00				
100	99	Main Street	3.50	585.71	0.21	11,441,314	2.19	33.02	0.00	0.63	0.00				
99	98	Main Street	3.50	585.71	0.21	11,441,314	2.25	33.02	0.00	0.64	0.00				
98	97	Main Street	3.50	594.74	0.76	11,441,314	1.61	33.02	0.00	0.46	0.00				
97	96	Main Street	3.50	589.36	0.47	11,441,314	1.71	33.02	0.00	0.49	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 1

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
96	95	Main Street	3.50	51.06	0.47	11,441,314	1.71	33.02	0.00	0.49	0.00				
95	101	Main Street	3.50	247.54	0.61	11,441,314	1.58	33.02	0.00	0.45	0.00				
101	87	Main Street	3.50	593.44	0.61	11,441,314	1.58	33.02	0.00	0.45	0.00				
87	90	Main Street	3.50	600.00	0.90	11,441,314	1.42	33.02	0.00	0.41	0.00				
90	92	Main Street	3.50	575.00	0.73	11,441,314	1.71	33.02	0.00	0.49	0.00				
92	91	Main Street	3.50	44.12	0.34	11,441,314	1.81	33.02	0.00	0.52	0.00				
91	93	Main Street	3.50	155.88	0.34	11,441,314	1.86	33.02	0.00	0.53	0.00				
93	89	Main Street	3.50	528.13	0.64	11,441,314	1.85	33.02	0.00	0.53	0.00				
89	94	Main Street	3.50	375.00	0.36	11,441,314	2.27	33.02	0.00	0.65	0.00				
94	369	Main Street	3.50	686.96	0.24	11,441,314	2.37	33.02	0.00	0.68	0.00				
369	88	Main Street	3.50	204.48	2.68	11,441,314	1.74	33.02	0.00	0.50	0.00				
88	105	Main Street	3.50	1110.44	0.38	11,441,314	1.84	33.02	0.00	0.53	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Salt Creek															
450	449	Hunte Parkway	1.25	105.77	0.55	292,003	0.36	0.81	0.00	0.29	0.00				
449	448	Hunte Parkway	1.25	379.39	0.64	292,003	0.35	0.81	0.00	0.28	0.00				
448	447	Hunte Parkway	1.25	408.57	0.58	292,003	0.35	0.81	0.00	0.28	0.00				
447	446	Hunte Parkway	1.25	337.88	0.61	292,003	0.40	0.81	0.00	0.32	0.00				
446	445	Hunte Parkway	1.25	394.30	0.68	292,003	0.40	0.81	0.00	0.32	0.00				
445	444	Hunte Parkway	1.25	308.72	5.33	292,003	0.23	0.81	0.00	0.19	0.00				
444	443	Hunte Parkway	1.25	96.00	15.71	292,003	0.26	0.81	0.00	0.21	0.00				
443	442	Hunte Parkway	1.25	307.73	3.46	422,853	0.36	1.17	0.00	0.29	0.00				
442	441	Hunte Parkway	1.25	401.73	1.01	422,853	0.39	1.17	0.00	0.31	0.00				
441	440	Hunte Parkway	1.25	378.20	1.21	422,853	0.39	1.17	0.00	0.31	0.00				
440	439	Hunte Parkway	1.25	358.00	2.50	422,853	0.38	1.17	0.00	0.31	0.00				
439	438	Hunte Parkway	1.25	344.42	1.10	422,853	0.38	1.17	0.00	0.31	0.00				
438	437	Hunte Parkway	1.25	317.38	1.83	422,853	0.31	1.17	0.00	0.25	0.00				
437	436	Hunte Parkway	1.25	374.80	3.56	576,233	0.42	1.58	0.00	0.34	0.00				
436	435	Salt Creek	1.25	389.97	1.05	576,233	0.42	1.58	0.00	0.34	0.00				
435	434	Salt Creek	1.25	235.33	1.08	576,233	0.42	1.58	0.00	0.33	0.00				
434	433	Salt Creek	1.25	392.07	1.05	576,233	0.42	1.58	0.00	0.33	0.00				
433	432	Salt Creek	1.25	291.03	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
432	431	Salt Creek	1.25	288.71	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
431	430	Salt Creek	1.25	357.00	2.38	576,233	0.51	1.58	0.00	0.40	0.00				
430	429	Salt Creek	1.50	535.98	0.38	576,233	0.68	1.58	0.00	0.45	0.00				
429	428	North Creekside Drive	1.50	56.66	1.78	1,955,233	0.68	5.34	0.00	0.45	0.00				
428	427	North Creekside Drive	1.50	127.29	3.10	1,955,233	0.55	5.34	0.00	0.37	0.00				
427	426	North Creekside Drive	1.50	179.38	3.08	1,955,233	0.56	5.34	0.00	0.37	0.00				
426	425	North Creekside Drive	1.50	322.07	3.00	1,955,233	0.99	5.34	0.00	0.66	0.00				
425	424	North Creekside Drive	1.50	391.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
424	423	North Creekside Drive	1.50	337.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
423	422	North Creekside Drive	1.50	320.00	0.52	1,955,233	1.13	5.34	0.00	0.75	0.00				
422	421	North Creekside Drive	1.50	375.23	0.34	1,955,233	1.13	5.34	0.00	0.75	0.00				
421	420	South Creekside Drive	1.50	214.58	0.45	1,955,233	0.98	5.34	0.00	0.66	0.00				
420	419	South Creekside Drive	1.50	279.18	0.44	1,955,233	1.00	5.34	0.00	0.66	0.00				
419	418	South Creekside Drive	1.50	331.52	0.43	1,955,233	1.00	5.34	0.00	0.66	0.00				
418	417	South Creekside Drive	1.50	234.29	0.44	1,955,233	0.99	5.34	0.00	0.66	0.00				
417	416	South Creekside Drive	1.50	376.84	0.43	1,955,233	0.99	5.34	0.00	0.66	0.00				
416	415	Salt Creek	1.50	183.28	8.21	2,085,150	0.68	5.69	0.00	0.45	0.00				
415	414	Salt Creek	1.50	291.21	1.64	2,085,150	1.00	5.69	0.00	0.67	0.00				
414	413	Salt Creek	1.50	295.00	1.22	2,085,150	1.00	5.69	0.00	0.67	0.00				
413	379	Salt Creek	1.50	33.00	13.33	2,085,150	0.84	5.69	0.00	0.56	0.00				
379	380	Salt Creek	1.50	9.13	3.07	2,243,246	0.84	6.12	0.00	0.56	0.00				
380	381	Salt Creek	1.75	151.45	0.89	2,243,246	0.84	6.12	0.00	0.48	0.00				
381	378	Salt Creek	1.75	24.99	3.32	2,243,246	0.57	6.12	0.00	0.33	0.00				
378	410	Salt Creek	1.75	8.48	3.30	2,243,246	0.77	6.12	0.00	0.44	0.00				
410	377	Salt Creek	1.75	91.18	6.35	2,243,246	0.52	6.12	0.00	0.30	0.00				
377	362	Salt Creek	1.75	173.33	1.20	2,243,246	0.72	6.12	0.00	0.41	0.00				
362	360	Salt Creek	1.75	346.73	1.07	2,243,246	0.74	6.12	0.00	0.42	0.00				
360	358	Salt Creek	1.75	609.66	2.01	2,243,246	0.62	6.12	0.00	0.35	0.00				
358	359	Salt Creek	1.75	563.95	0.86	2,243,246	0.79	6.12	0.00	0.45	0.00				
359	357	Salt Creek	1.75	596.82	1.57	2,243,246	0.67	6.12	0.00	0.38	0.00				
357	356	Salt Creek	2.00	470.93	0.86	2,387,691	0.77	6.51	0.00	0.38	0.00				
356	355	Salt Creek	2.00	510.27	1.85	2,387,691	0.62	6.51	0.00	0.31	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
355	354	Salt Creek	2.00	511.11	1.26	2,387,691	0.69	6.51	0.00	0.35	0.00				
354	353	Salt Creek	2.00	509.76	0.82	2,387,691	0.78	6.51	0.00	0.39	0.00				
353	352	Salt Creek	2.00	507.69	1.55	2,387,691	0.65	6.51	0.00	0.33	0.00				
352	351	Salt Creek	2.00	501.74	1.72	2,387,691	0.78	6.51	0.00	0.39	0.00				
351	350	Salt Creek	2.00	17.39	0.52	2,387,691	0.98	6.51	0.00	0.49	0.00				
350	349	Salt Creek	2.00	403.13	0.32	2,387,691	1.06	6.51	0.00	0.53	0.00				
349	348	Salt Creek	2.00	20.69	0.29	2,387,691	1.01	6.51	0.00	0.50	0.00				
383	384	ROW	1.00	231.56	0.46	224,340	0.37	0.68	0.00	0.37	0.00				
384	386	ROW	1.00	260.50	0.50	224,340	0.35	0.68	0.00	0.35	0.00				
386	392	ROW	1.00	241.51	0.50	224,340	0.39	0.68	0.00	0.39	0.00				
392	394	ROW	1.00	246.51	0.57	224,340	0.39	0.68	0.00	0.39	0.00				
394	396	ROW	1.00	236.89	1.37	224,340	0.44	0.68	0.00	0.44	0.00				
396	398	ROW	1.00	278.84	0.54	224,340	0.44	0.68	0.00	0.44	0.00				
398	400	ROW	1.00	130.87	8.38	224,340	0.20	0.68	0.00	0.20	0.00				
400	402	ROW	1.00	357.70	19.82	224,340	0.16	0.68	0.00	0.16	0.00				
402	404	ROW	1.00	116.69	11.54	224,340	0.17	0.68	0.00	0.17	0.00				
404	406	ROW	1.00	168.74	9.15	224,340	0.17	0.68	0.00	0.17	0.00				
406	348	ROW	1.00	100.00	0.50	224,340	0.37	0.68	0.00	0.37	0.00				
348	347	Salt Creek	2.00	566.14	0.32	2,612,031	1.13	7.13	0.00	0.57	0.00				
347	282	Salt Creek	2.00	254.00	0.97	2,612,031	0.78	7.13	0.00	0.39	0.00				
282	280	Salt Creek	2.00	83.41	8.38	2,612,031	1.31	7.13	0.00	0.65	0.00				
280	278	Salt Creek	2.00	316.64	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
278	276	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
276	274	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
274	272	Salt Creek	2.00	187.39	0.23	3,040,941	1.29	8.29	0.00	0.65	0.00				
272	270	Salt Creek	2.00	164.52	0.26	3,040,941	1.25	8.29	0.00	0.62	0.00				
270	412	Salt Creek	2.00	200.00	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
412	268	Salt Creek	2.00	217.87	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
268	266	Salt Creek	2.00	146.46	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
266	264	Salt Creek	2.00	220.48	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
264	262	Salt Creek	2.00	348.89	6.31	3,040,941	0.54	8.29	0.00	0.27	0.00				
262	*341*	*Salt Creek*	*2.00*	*283.32*	*5.29*	*3,040,941*	*0.57*	*8.29*	*0.00*	*0.29*	*0.00*				
341	260	Salt Creek	2.00	400.00	4.25	3,040,941	0.76	8.29	0.00	0.38	0.00				
260	258	Salt Creek	2.00	377.80	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
258	256	Salt Creek	2.00	328.20	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
256	376	Salt Creek	2.00	195.00	0.37	3,040,941	1.24	8.29	0.00	0.62	0.00				
376	389	Salt Creek	2.50	2.44	41.07	3,040,941	0.56	8.29	0.00	0.22	0.00				
389	375	Salt Creek	2.50	31.29	12.40	3,040,941	1.16	8.29	0.00	0.46	0.00				
375	252	Salt Creek	2.50	299.47	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
252	250	Salt Creek	2.50	411.56	0.11	3,040,941	1.38	8.29	0.00	0.55	0.00				
250	374	Salt Creek	2.50	305.03	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
374	244	Salt Creek	2.50	79.41	5.69	3,040,941	0.97	8.29	0.00	0.39	0.00				
244	242	Salt Creek	2.50	257.58	0.41	3,040,941	1.09	8.29	0.00	0.44	0.00				
242	240	Salt Creek	2.50	521.21	0.37	3,040,941	1.09	8.29	0.00	0.44	0.00				
240	238	Salt Creek	2.50	175.33	0.77	3,040,941	0.82	8.29	0.00	0.33	0.00				
238	236	Salt Creek	2.50	78.10	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
236	234	Salt Creek	2.50	565.71	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
234	232	Wiley Road	2.50	564.76	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
232	230	Wiley Road	2.50	312.34	1.54	3,040,941	0.97	8.29	0.00	0.39	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
230	222	Wiley Road	2.50	596.77	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
222	220	Wiley Road	2.50	593.55	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
220	218	Wiley Road	2.50	519.36	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
218	216	Wiley Road	2.50	600.00	0.31	3,417,821	1.18	9.38	0.00	0.47	0.00				
216	214	Wiley Road	2.50	600.00	1.06	3,417,821	1.25	9.38	0.00	0.50	0.00				
214	212	Wiley Road	3.00	510.21	0.26	5,673,102	1.45	15.50	0.00	0.48	0.00				
212	210	Wiley Road	3.00	342.11	0.19	5,673,102	1.57	15.50	0.00	0.52	0.00				
210	208	Wiley Road	3.00	353.81	0.19	5,673,102	1.58	15.50	0.00	0.53	0.00				
208	206	Wiley Road	3.00	289.47	0.19	5,673,102	1.55	15.50	0.00	0.52	0.00				
206	204	Wiley Road	3.00	600.00	0.19	5,673,102	1.65	15.50	0.00	0.55	0.00				
204	202	Wiley Road	3.00	484.48	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
202	200	Wiley Road	3.00	594.83	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
200	198	Wiley Road	3.00	593.10	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
198	196	Wiley Road	3.00	594.83	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
196	194	Wiley Road	3.00	600.00	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
194	192	Wiley Road	3.00	389.66	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
192	190	Wiley Road	3.00	439.85	0.58	5,673,102	1.14	15.50	0.00	0.38	0.00				
190	188	Wiley Road	3.00	304.50	2.00	5,673,102	1.39	15.50	0.00	0.46	0.00				
188	186	Wiley Road	3.00	470.08	0.19	5,673,102	1.59	15.50	0.00	0.53	0.00				
186	184	Wiley Road	3.00	600.00	0.19	5,673,102	1.59	15.50	0.00	0.53	0.00				
184	182	Wiley Road	3.00	599.29	0.19	5,673,102	1.65	15.49	0.00	0.55	0.00				
182	180	Wiley Road	3.00	594.29	1.40	5,673,102	0.90	15.49	0.00	0.30	0.00				
180	178	Wiley Road	3.50	585.97	0.57	5,673,102	1.28	15.49	0.00	0.37	0.00				
178	176	Wiley Road	3.50	524.66	0.19	5,673,102	1.48	15.49	0.00	0.42	0.00				
176	175	Wiley Road	3.50	584.91	0.19	5,673,102	1.50	15.49	0.00	0.43	0.00				
175	373	Wiley Road	3.50	289.47	0.19	5,673,102	1.45	15.49	0.00	0.42	0.00				
373	372	Wiley Road	3.50	115.79	0.19	5,673,102	1.38	15.49	0.00	0.39	0.00				
372	168	Wiley Road	3.50	302.36	0.19	5,673,102	1.45	15.49	0.00	0.42	0.00				
168	166	Wiley Road	3.50	320.42	0.19	5,673,102	1.46	15.49	0.00	0.42	0.00				
166	164	Wiley Road	3.50	426.73	0.19	5,673,102	1.47	15.49	0.00	0.42	0.00				
164	162	Wiley Road	3.50	438.74	0.19	5,673,102	1.48	15.49	0.00	0.42	0.00				
162	160	Wiley Road	3.50	438.74	0.19	5,673,102	1.48	15.49	0.00	0.42	0.00				
160	157	Wiley Road	3.50	300.00	0.19	5,673,102	1.58	15.49	0.00	0.45	0.00				
157	155	Wiley Road	3.50	494.75	0.19	7,895,937	1.78	21.42	0.00	0.51	0.00				
155	153	Wiley Road	3.50	431.11	0.45	7,895,937	1.45	21.42	0.00	0.41	0.00				
153	151	Wiley Road	3.50	593.02	0.89	7,895,937	1.54	21.42	0.00	0.44	0.00				
151	149	Wiley Road	3.50	600.00	0.28	7,895,937	1.93	21.42	0.00	0.55	0.00				
149	371	Wiley Road	3.50	684.38	0.28	8,424,307	1.93	26.04	0.00	0.55	0.00				
371	145	Wiley Road	3.50	344.92	1.30	8,424,307	1.19	26.04	0.00	0.34	0.00				
145	143	Wiley Road	3.50	443.27	1.09	8,424,307	2.29	26.04	0.00	0.65	0.00				
143	141	Main Street	3.50	521.85	0.10	8,424,307	2.29	26.04	0.00	0.65	0.00				
141	139	Main Street	3.50	600.00	0.17	8,424,307	2.39	26.04	0.00	0.68	0.00				
139	137	Main Street	3.50	600.00	0.10	8,424,307	2.41	26.04	0.00	0.69	0.00				
137	345	Main Street	3.50	136.04	0.10	8,424,307	2.41	26.03	0.00	0.69	0.00				
345	135	Main Street	3.50	456.45	0.10	8,424,307	2.41	26.03	0.00	0.69	0.00				
135	133	Main Street	3.50	600.00	0.10	8,424,307	2.40	26.03	0.00	0.68	0.00				
133	128	Main Street	3.50	600.00	0.10	8,424,307	2.36	26.03	0.00	0.67	0.00				
128	127	Main Street	3.75	600.00	0.10	8,424,307	2.29	26.03	0.00	0.61	0.00				
127	130	Main Street	3.75	600.00	0.10	8,424,307	2.28	26.02	0.00	0.61	0.00				
130	125	Main Street	3.75	600.00	0.10	8,424,307	2.29	26.02	0.00	0.61	0.00				
125	123	Main Street	3.75	600.00	0.10	8,424,307	2.29	26.02	0.00	0.61	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
123	121	Main Street	3.75	73.17	0.10	8,424,307	2.29	26.02	0.00	0.61	0.00				
121	119	Main Street	3.75	265.39	0.10	8,424,307	2.29	26.02	0.00	0.61	0.00				
119	117	Main Street	3.75	73.17	0.10	8,424,307	2.29	26.02	0.00	0.61	0.00				
117	115	Main Street	3.75	199.38	0.10	8,424,307	2.29	26.01	0.00	0.61	0.00				
115	113	Main Street	3.75	600.03	0.10	8,424,307	2.29	26.01	0.00	0.61	0.00				
113	111	Main Street	3.75	600.00	0.10	8,424,307	2.32	26.01	0.00	0.62	0.00				
111	408	Main Street	3.75	228.15	0.10	8,424,307	2.34	26.01	0.00	0.62	0.00				
408	109	Main Street	3.75	371.85	0.10	8,424,307	2.39	26.00	0.00	0.64	0.00				
109	107	Main Street	3.75	146.76	0.10	8,424,307	2.40	26.00	0.00	0.64	0.00				
107	86	Main Street	3.50	955.55	0.10	8,424,307	2.40	26.00	0.00	0.69	0.00				
86	85	Main Street	3.50	566.85	0.10	8,424,307	2.35	26.00	0.00	0.67	0.00				
85	84	Main Street	3.50	287.69	0.10	8,424,307	2.26	26.00	0.00	0.65	0.00				
84	83	Main Street	3.50	399.00	0.10	8,424,307	2.18	26.00	0.00	0.62	0.00				
344	83	Main Street	1.75	18.31	17.64	3,339,755	1.26	8.58	0.00	0.72	0.00				
83	81	Main Street	3.50	269.13	1.49	11,764,062	1.84	34.11	0.00	0.53	0.00				
81	70	Otay Valley Road	3.50	13.04	0.23	11,764,062	1.94	34.11	0.00	0.55	0.00				
70	80	Otay Valley Road	3.50	42.11	0.19	11,764,062	1.92	34.11	0.00	0.55	0.00				
80	79	Otay Valley Road	3.50	57.60	1.25	11,764,062	1.32	34.11	0.00	0.38	0.00				
79	78	Otay Valley Road	3.50	84.80	1.25	11,764,062	1.32	34.11	0.00	0.38	0.00				
78	77	Otay Valley Road	3.50	77.95	1.27	11,764,062	1.32	34.11	0.00	0.38	0.00				
77	76	Otay Valley Road	3.50	293.53	1.39	11,764,062	1.29	34.11	0.00	0.37	0.00				
76	75	Otay Valley Road	3.50	283.01	1.53	11,764,062	1.90	34.11	0.00	0.54	0.00				
75	74	Otay Valley Road	3.50	12.00	0.25	11,764,062	2.00	34.11	0.00	0.57	0.00				
74	73	Otay Valley Road	3.50	84.00	0.25	11,764,062	2.00	34.11	0.00	0.57	0.00				
73	82	Otay Valley Road	3.50	212.52	0.25	11,764,062	2.01	34.11	0.00	0.58	0.00				
82	72	Otay Valley Road	3.50	172.00	0.25	11,764,062	2.08	34.11	0.00	0.59	0.00				
72	71	Otay Valley Road	3.50	133.42	0.25	11,764,062	2.11	34.11	0.00	0.60	0.00				
71	55	Otay Valley Road	3.50	400.72	0.22	11,764,062	2.21	34.11	0.00	0.63	0.00				
55	54	Otay Valley Road	3.50	18.18	0.22	11,764,062	1.92	34.11	0.00	0.55	0.00				
54	62	Date Street	3.50	78.37	0.32	11,764,062	1.88	34.11	0.00	0.54	0.00				
62	61	Date Street	3.50	8.00	1.50	11,764,062	1.81	34.11	0.00	0.52	0.00				
61	53	Main Street	3.50	204.72	1.06	11,764,062	1.38	34.11	0.00	0.40	0.00				
53	65	Main Street	3.50	129.73	1.11	11,764,062	1.86	34.11	0.00	0.53	0.00				
65	66	Main Street	3.50	532.35	0.34	11,764,062	1.96	34.11	0.00	0.56	0.00				
66	60	Main Street	3.50	497.04	1.35	11,764,062	1.30	34.11	0.00	0.37	0.00				
60	59	Main Street	3.50	26.77	1.27	11,764,062	1.36	34.11	0.00	0.39	0.00				
59	58	Main Street	3.50	502.70	1.10	11,764,062	2.02	34.11	0.00	0.58	0.00				
58	57	Main Street	3.50	600.00	0.28	11,764,062	2.12	34.11	0.00	0.61	0.00				
57	68	Main Street	3.50	584.68	1.24	11,764,062	1.33	34.11	0.00	0.38	0.00				
68	67	Main Street	3.50	579.67	1.23	11,764,062	1.33	34.11	0.00	0.38	0.00				
67	56	Main Street	3.50	41.58	2.02	11,764,062	1.18	34.11	0.00	0.34	0.00				
56	63	Main Street	3.50	504.48	1.34	11,764,062	1.32	34.11	0.00	0.38	0.00				
63	64	Main Street	3.50	467.01	0.97	11,764,062	1.71	34.11	0.00	0.49	0.00				
64	69	Main Street	3.50	65.85	0.41	11,764,062	1.81	34.11	0.00	0.52	0.00				
69	100	Main Street	3.50	600.00	0.41	11,764,062	2.14	34.11	0.00	0.61	0.00				
100	99	Main Street	3.50	585.71	0.21	11,764,062	2.24	34.11	0.00	0.64	0.00				
99	98	Main Street	3.50	585.71	0.21	11,764,062	2.30	34.10	0.00	0.66	0.00				
98	97	Main Street	3.50	594.74	0.76	11,764,062	1.64	34.10	0.00	0.47	0.00				
97	96	Main Street	3.50	589.36	0.47	11,764,062	1.74	34.10	0.00	0.50	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 2

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
96	95	Main Street	3.50	51.06	0.47	11,764,062	1.74	34.10	0.00	0.50	0.00				
95	101	Main Street	3.50	247.54	0.61	11,764,062	1.61	34.10	0.00	0.46	0.00				
101	87	Main Street	3.50	593.44	0.61	11,764,062	1.61	34.10	0.00	0.46	0.00				
87	90	Main Street	3.50	600.00	0.90	11,764,062	1.45	34.10	0.00	0.41	0.00				
90	92	Main Street	3.50	575.00	0.73	11,764,062	1.75	34.10	0.00	0.50	0.00				
92	91	Main Street	3.50	44.12	0.34	11,764,062	1.85	34.10	0.00	0.53	0.00				
91	93	Main Street	3.50	155.88	0.34	11,764,062	1.90	34.10	0.00	0.54	0.00				
93	89	Main Street	3.50	528.13	0.64	11,764,062	1.88	34.10	0.00	0.54	0.00				
89	94	Main Street	3.50	375.00	0.36	11,764,062	2.32	34.10	0.00	0.66	0.00				
94	369	Main Street	3.50	686.96	0.24	11,764,062	2.42	34.10	0.00	0.69	0.00				
369	88	Main Street	3.50	204.48	2.68	11,764,062	1.78	34.10	0.00	0.51	0.00				
88	105	Main Street	3.50	1110.44	0.38	11,764,062	1.88	34.10	0.00	0.54	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Max Surcharge Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
Salt Creek															
450	449	Hunte Parkway	1.25	105.77	0.55	292,003	0.36	0.81	0.00	0.29	0.00				
449	448	Hunte Parkway	1.25	379.39	0.64	292,003	0.35	0.81	0.00	0.28	0.00				
448	447	Hunte Parkway	1.25	408.57	0.58	292,003	0.35	0.81	0.00	0.28	0.00				
447	446	Hunte Parkway	1.25	337.88	0.61	292,003	0.40	0.81	0.00	0.32	0.00				
446	445	Hunte Parkway	1.25	394.30	0.68	292,003	0.40	0.81	0.00	0.32	0.00				
445	444	Hunte Parkway	1.25	308.72	5.33	292,003	0.23	0.81	0.00	0.19	0.00				
444	443	Hunte Parkway	1.25	96.00	15.71	292,003	0.26	0.81	0.00	0.21	0.00				
443	442	Hunte Parkway	1.25	307.73	3.46	422,853	0.36	1.17	0.00	0.29	0.00				
442	441	Hunte Parkway	1.25	401.73	1.01	422,853	0.39	1.17	0.00	0.31	0.00				
441	440	Hunte Parkway	1.25	378.20	1.21	422,853	0.39	1.17	0.00	0.31	0.00				
440	439	Hunte Parkway	1.25	358.00	2.50	422,853	0.38	1.17	0.00	0.31	0.00				
439	438	Hunte Parkway	1.25	344.42	1.10	422,853	0.38	1.17	0.00	0.31	0.00				
438	437	Hunte Parkway	1.25	317.38	1.83	422,853	0.31	1.17	0.00	0.25	0.00				
437	436	Hunte Parkway	1.25	374.80	3.56	576,233	0.42	1.58	0.00	0.34	0.00				
436	435	Salt Creek	1.25	389.97	1.05	576,233	0.42	1.58	0.00	0.34	0.00				
435	434	Salt Creek	1.25	235.33	1.08	576,233	0.42	1.58	0.00	0.33	0.00				
434	433	Salt Creek	1.25	392.07	1.05	576,233	0.42	1.58	0.00	0.33	0.00				
433	432	Salt Creek	1.25	291.03	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
432	431	Salt Creek	1.25	288.71	1.07	576,233	0.47	1.58	0.00	0.38	0.00				
431	430	Salt Creek	1.25	357.00	2.38	576,233	0.51	1.58	0.00	0.40	0.00				
430	429	Salt Creek	1.50	535.98	0.38	576,233	0.68	1.58	0.00	0.45	0.00				
429	428	North Creekside Drive	1.50	56.66	1.78	1,955,233	0.68	5.34	0.00	0.45	0.00				
428	427	North Creekside Drive	1.50	127.29	3.10	1,955,233	0.55	5.34	0.00	0.37	0.00				
427	426	North Creekside Drive	1.50	179.38	3.08	1,955,233	0.56	5.34	0.00	0.37	0.00				
426	425	North Creekside Drive	1.50	322.07	3.00	1,955,233	0.99	5.34	0.00	0.66	0.00				
425	424	North Creekside Drive	1.50	391.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
424	423	North Creekside Drive	1.50	337.37	0.43	1,955,233	1.02	5.34	0.00	0.68	0.00				
423	422	North Creekside Drive	1.50	320.00	0.52	1,955,233	1.13	5.34	0.00	0.75	0.00				
422	421	North Creekside Drive	1.50	375.23	0.34	1,955,233	1.13	5.34	0.00	0.75	0.00				
421	420	South Creekside Drive	1.50	214.58	0.45	1,955,233	0.98	5.34	0.00	0.66	0.00				
420	419	South Creekside Drive	1.50	279.18	0.44	1,955,233	1.00	5.34	0.00	0.66	0.00				
419	418	South Creekside Drive	1.50	331.52	0.43	1,955,233	1.00	5.34	0.00	0.66	0.00				
418	417	South Creekside Drive	1.50	234.29	0.44	1,955,233	0.99	5.34	0.00	0.66	0.00				
417	416	South Creekside Drive	1.50	376.84	0.43	1,955,233	0.99	5.34	0.00	0.66	0.00				
416	415	Salt Creek	1.50	183.28	8.21	2,085,150	0.68	5.69	0.00	0.45	0.00				
415	414	Salt Creek	1.50	291.21	1.64	2,085,150	1.00	5.69	0.00	0.67	0.00				
414	413	Salt Creek	1.50	295.00	1.22	2,085,150	1.00	5.69	0.00	0.67	0.00				
413	379	Salt Creek	1.50	33.00	13.33	2,085,150	0.84	5.69	0.00	0.56	0.00				
379	380	Salt Creek	1.50	9.13	3.07	2,243,246	0.84	6.12	0.00	0.56	0.00				
380	381	Salt Creek	1.75	151.45	0.89	2,243,246	0.84	6.12	0.00	0.48	0.00				
381	378	Salt Creek	1.75	24.99	3.32	2,243,246	0.57	6.12	0.00	0.33	0.00				
378	410	Salt Creek	1.75	8.48	3.30	2,243,246	0.77	6.12	0.00	0.44	0.00				
410	377	Salt Creek	1.75	91.18	6.35	2,243,246	0.52	6.12	0.00	0.30	0.00				
377	362	Salt Creek	1.75	173.33	1.20	2,243,246	0.72	6.12	0.00	0.41	0.00				
362	360	Salt Creek	1.75	346.73	1.07	2,243,246	0.74	6.12	0.00	0.42	0.00				
360	358	Salt Creek	1.75	609.66	2.01	2,243,246	0.62	6.12	0.00	0.35	0.00				
358	359	Salt Creek	1.75	563.95	0.86	2,243,246	0.79	6.12	0.00	0.45	0.00				
359	357	Salt Creek	1.75	596.82	1.57	2,243,246	0.67	6.12	0.00	0.38	0.00				
357	356	Salt Creek	2.00	470.93	0.86	2,387,691	0.77	6.51	0.00	0.38	0.00				
356	355	Salt Creek	2.00	510.27	1.85	2,387,691	0.62	6.51	0.00	0.31	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
355	354	Salt Creek	2.00	511.11	1.26	2,387,691	0.69	6.51	0.00	0.35	0.00				
354	353	Salt Creek	2.00	509.76	0.82	2,387,691	0.78	6.51	0.00	0.39	0.00				
353	352	Salt Creek	2.00	507.69	1.55	2,387,691	0.65	6.51	0.00	0.33	0.00				
352	351	Salt Creek	2.00	501.74	1.72	2,387,691	0.78	6.51	0.00	0.39	0.00				
351	350	Salt Creek	2.00	17.39	0.52	2,387,691	0.98	6.51	0.00	0.49	0.00				
350	349	Salt Creek	2.00	403.13	0.32	2,387,691	1.06	6.51	0.00	0.53	0.00				
349	348	Salt Creek	2.00	20.69	0.29	2,387,691	1.01	6.51	0.00	0.50	0.00				
383	384	ROW	1.00	231.56	0.46	224,340	0.37	0.68	0.00	0.37	0.00				
384	386	ROW	1.00	260.50	0.50	224,340	0.35	0.68	0.00	0.35	0.00				
386	392	ROW	1.00	241.51	0.50	224,340	0.39	0.68	0.00	0.39	0.00				
392	394	ROW	1.00	246.51	0.57	224,340	0.39	0.68	0.00	0.39	0.00				
394	396	ROW	1.00	236.89	1.37	224,340	0.44	0.68	0.00	0.44	0.00				
396	398	ROW	1.00	278.84	0.54	224,340	0.44	0.68	0.00	0.44	0.00				
398	400	ROW	1.00	130.87	8.38	224,340	0.20	0.68	0.00	0.20	0.00				
400	402	ROW	1.00	357.70	19.82	224,340	0.16	0.68	0.00	0.16	0.00				
402	404	ROW	1.00	116.69	11.54	224,340	0.17	0.68	0.00	0.17	0.00				
404	406	ROW	1.00	168.74	9.15	224,340	0.17	0.68	0.00	0.17	0.00				
406	348	ROW	1.00	100.00	0.50	224,340	0.37	0.68	0.00	0.37	0.00				
348	347	Salt Creek	2.00	566.14	0.32	2,612,031	1.13	7.13	0.00	0.57	0.00				
347	282	Salt Creek	2.00	254.00	0.97	2,612,031	0.78	7.13	0.00	0.39	0.00				
282	280	Salt Creek	2.00	83.41	8.38	2,612,031	1.31	7.13	0.00	0.65	0.00				
280	278	Salt Creek	2.00	316.64	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
278	276	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
276	274	Salt Creek	2.00	400.00	0.23	3,040,941	1.31	8.29	0.00	0.65	0.00				
274	272	Salt Creek	2.00	187.39	0.23	3,040,941	1.29	8.29	0.00	0.65	0.00				
272	270	Salt Creek	2.00	164.52	0.26	3,040,941	1.25	8.29	0.00	0.62	0.00				
270	412	Salt Creek	2.00	200.00	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
412	268	Salt Creek	2.00	217.87	3.30	3,040,941	0.64	8.29	0.00	0.32	0.00				
268	266	Salt Creek	2.00	146.46	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
266	264	Salt Creek	2.00	220.48	4.09	3,040,941	0.62	8.29	0.00	0.31	0.00				
264	262	Salt Creek	2.00	348.89	6.31	3,040,941	0.54	8.29	0.00	0.27	0.00				
262	341	Salt Creek	2.00	283.32	5.29	3,040,941	0.57	8.29	0.00	0.29	0.00				
341	260	Salt Creek	2.00	400.00	4.25	3,040,941	0.76	8.29	0.00	0.38	0.00				
260	258	Salt Creek	2.00	377.80	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
258	256	Salt Creek	2.00	328.20	1.45	3,040,941	0.76	8.29	0.00	0.38	0.00				
256	376	Salt Creek	2.00	195.00	0.37	3,040,941	1.24	8.29	0.00	0.62	0.00				
376	389	Salt Creek	2.50	2.44	41.07	3,040,941	0.56	8.29	0.00	0.22	0.00				
389	375	Salt Creek	2.50	31.29	12.40	3,040,941	1.16	8.29	0.00	0.46	0.00				
375	252	Salt Creek	2.50	299.47	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
252	250	Salt Creek	2.50	411.56	0.11	3,040,941	1.38	8.29	0.00	0.55	0.00				
250	374	Salt Creek	2.50	305.03	0.11	3,040,941	1.36	8.29	0.00	0.54	0.00				
374	244	Salt Creek	2.50	79.41	5.69	3,040,941	0.97	8.29	0.00	0.39	0.00				
244	242	Salt Creek	2.50	257.58	0.41	3,040,941	1.09	8.29	0.00	0.44	0.00				
242	240	Salt Creek	2.50	521.21	0.37	3,040,941	1.09	8.29	0.00	0.44	0.00				
240	238	Salt Creek	2.50	175.33	0.77	3,040,941	0.82	8.29	0.00	0.33	0.00				
238	236	Salt Creek	2.50	78.10	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
236	234	Salt Creek	2.50	565.71	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
234	232	Wiley Road	2.50	564.76	1.05	3,040,941	0.75	8.29	0.00	0.30	0.00				
232	230	Wiley Road	2.50	312.34	1.54	3,040,941	0.97	8.29	0.00	0.39	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
230	222	Wiley Road	2.50	596.77	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
222	220	Wiley Road	2.50	593.55	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
220	218	Wiley Road	2.50	519.36	0.31	3,417,821	1.17	9.38	0.00	0.47	0.00				
218	216	Wiley Road	2.50	600.00	0.31	3,417,821	1.18	9.38	0.00	0.47	0.00				
216	214	Wiley Road	2.50	600.00	1.06	3,417,821	1.14	9.38	0.00	0.46	0.00				
214	212	Wiley Road	3.00	510.21	0.26	4,885,012	1.34	13.42	0.00	0.45	0.00				
212	210	Wiley Road	3.00	342.11	0.19	4,885,012	1.45	13.42	0.00	0.48	0.00				
210	208	Wiley Road	3.00	353.81	0.19	4,885,012	1.46	13.42	0.00	0.49	0.00				
208	206	Wiley Road	3.00	289.47	0.19	4,885,012	1.43	13.42	0.00	0.48	0.00				
206	204	Wiley Road	3.00	600.00	0.19	4,885,012	1.52	13.42	0.00	0.51	0.00				
204	202	Wiley Road	3.00	484.48	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
202	200	Wiley Road	3.00	594.83	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
200	198	Wiley Road	3.00	593.10	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
198	196	Wiley Road	3.00	594.83	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
196	194	Wiley Road	3.00	600.00	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
194	192	Wiley Road	3.00	389.66	0.58	4,885,012	1.05	13.42	0.00	0.35	0.00				
192	190	Wiley Road	3.00	439.85	0.58	4,885,012	1.06	13.42	0.00	0.35	0.00				
190	188	Wiley Road	3.00	304.50	2.00	4,885,012	1.27	13.42	0.00	0.42	0.00				
188	186	Wiley Road	3.00	470.08	0.19	4,885,012	1.47	13.42	0.00	0.49	0.00				
186	184	Wiley Road	3.00	600.00	0.19	4,885,012	1.47	13.42	0.00	0.49	0.00				
184	182	Wiley Road	3.00	599.29	0.19	4,885,012	1.52	13.42	0.00	0.51	0.00				
182	180	Wiley Road	3.00	594.29	1.40	4,885,012	0.84	13.42	0.00	0.28	0.00				
180	178	Wiley Road	3.50	585.97	0.57	4,885,012	1.17	13.42	0.00	0.34	0.00				
178	176	Wiley Road	3.50	524.66	0.19	4,885,012	1.37	13.42	0.00	0.39	0.00				
176	175	Wiley Road	3.50	584.91	0.19	4,885,012	1.40	13.42	0.00	0.40	0.00				
175	373	Wiley Road	3.50	289.47	0.19	4,885,012	1.35	13.42	0.00	0.39	0.00				
373	372	Wiley Road	3.50	115.79	0.19	4,885,012	1.28	13.42	0.00	0.37	0.00				
372	168	Wiley Road	3.50	302.36	0.19	4,885,012	1.35	13.42	0.00	0.39	0.00				
168	166	Wiley Road	3.50	320.42	0.19	4,885,012	1.36	13.42	0.00	0.39	0.00				
166	164	Wiley Road	3.50	426.73	0.19	4,885,012	1.36	13.42	0.00	0.39	0.00				
164	162	Wiley Road	3.50	438.74	0.19	4,885,012	1.37	13.42	0.00	0.39	0.00				
162	160	Wiley Road	3.50	438.74	0.19	4,885,012	1.38	13.42	0.00	0.39	0.00				
160	157	Wiley Road	3.50	300.00	0.19	4,885,012	1.41	13.42	0.00	0.40	0.00				
157	155	Wiley Road	3.50	494.75	0.19	6,552,842	1.61	17.78	0.00	0.46	0.00				
155	153	Wiley Road	3.50	431.11	0.45	6,552,842	1.31	17.78	0.00	0.38	0.00				
153	151	Wiley Road	3.50	593.02	0.89	6,552,842	1.39	17.78	0.00	0.40	0.00				
151	149	Wiley Road	3.50	600.00	0.28	6,552,842	1.77	17.78	0.00	0.50	0.00				
149	371	Wiley Road	3.50	684.38	0.28	7,081,212	1.77	21.94	0.00	0.50	0.00				
371	145	Wiley Road	3.50	344.92	1.30	7,081,212	1.09	21.94	0.00	0.31	0.00				
145	143	Wiley Road	3.50	443.27	1.09	7,081,212	2.06	21.94	0.00	0.59	0.00				
143	141	Main Street	3.50	521.85	0.10	7,081,212	2.06	21.93	0.00	0.59	0.00				
141	139	Main Street	3.50	600.00	0.17	7,081,212	2.13	21.93	0.00	0.61	0.00				
139	137	Main Street	3.50	600.00	0.10	7,081,212	2.15	21.93	0.00	0.61	0.00				
137	345	Main Street	3.50	136.04	0.10	7,081,212	2.15	21.93	0.00	0.61	0.00				
345	135	Main Street	3.50	456.45	0.10	7,081,212	2.14	21.93	0.00	0.61	0.00				
135	133	Main Street	3.50	600.00	0.10	7,081,212	2.14	21.93	0.00	0.61	0.00				
133	128	Main Street	3.50	600.00	0.10	7,081,212	2.11	21.92	0.00	0.60	0.00				
128	127	Main Street	3.75	600.00	0.10	7,081,212	2.06	21.92	0.00	0.55	0.00				
127	130	Main Street	3.75	600.00	0.10	7,081,212	2.04	21.92	0.00	0.54	0.00				
130	125	Main Street	3.75	600.00	0.10	7,081,212	2.05	21.92	0.00	0.55	0.00				
125	123	Main Street	3.75	600.00	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
123	121	Main Street	3.75	73.17	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				
121	119	Main Street	3.75	265.39	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				
119	117	Main Street	3.75	73.17	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				
117	115	Main Street	3.75	199.38	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				
115	113	Main Street	3.75	600.03	0.10	7,081,212	2.05	21.91	0.00	0.55	0.00				
113	111	Main Street	3.75	600.00	0.10	7,081,212	2.06	21.91	0.00	0.55	0.00				
111	408	Main Street	3.75	228.15	0.10	7,081,212	2.08	21.90	0.00	0.56	0.00				
408	109	Main Street	3.75	371.85	0.10	7,081,212	2.13	21.90	0.00	0.57	0.00				
109	107	Main Street	3.75	146.76	0.10	7,081,212	2.14	21.90	0.00	0.57	0.00				
107	86	Main Street	3.50	955.55	0.10	7,081,212	2.14	21.90	0.00	0.61	0.00				
86	85	Main Street	3.50	566.85	0.10	7,081,212	2.11	21.90	0.00	0.60	0.00				
85	84	Main Street	3.50	287.69	0.10	7,081,212	2.06	21.90	0.00	0.59	0.00				
84	83	Main Street	3.50	399.00	0.10	7,081,212	2.00	21.90	0.00	0.57	0.00				
344	83	Main Street	1.75	18.31	17.64	3,339,755	1.18	8.58	0.00	0.67	0.00				
83	81	Main Street	3.50	269.13	1.49	10,420,967	1.71	29.96	0.00	0.49	0.00				
81	70	Otay Valley Road	3.50	13.04	0.23	10,420,967	1.81	29.96	0.00	0.52	0.00				
70	80	Otay Valley Road	3.50	42.11	0.19	10,420,967	1.80	29.96	0.00	0.51	0.00				
80	79	Otay Valley Road	3.50	57.60	1.25	10,420,967	1.23	29.96	0.00	0.35	0.00				
79	78	Otay Valley Road	3.50	84.80	1.25	10,420,967	1.23	29.96	0.00	0.35	0.00				
78	77	Otay Valley Road	3.50	77.95	1.27	10,420,967	1.23	29.96	0.00	0.35	0.00				
77	76	Otay Valley Road	3.50	293.53	1.39	10,420,967	1.20	29.96	0.00	0.34	0.00				
76	75	Otay Valley Road	3.50	283.01	1.53	10,420,967	1.75	29.96	0.00	0.50	0.00				
75	74	Otay Valley Road	3.50	12.00	0.25	10,420,967	1.85	29.96	0.00	0.53	0.00				
74	73	Otay Valley Road	3.50	84.00	0.25	10,420,967	1.85	29.96	0.00	0.53	0.00				
73	82	Otay Valley Road	3.50	212.52	0.25	10,420,967	1.86	29.96	0.00	0.53	0.00				
82	72	Otay Valley Road	3.50	172.00	0.25	10,420,967	1.92	29.96	0.00	0.55	0.00				
72	71	Otay Valley Road	3.50	133.42	0.25	10,420,967	1.95	29.96	0.00	0.56	0.00				
71	55	Otay Valley Road	3.50	400.72	0.22	10,420,967	2.05	29.96	0.00	0.59	0.00				
55	54	Otay Valley Road	3.50	18.18	0.22	10,420,967	1.79	29.96	0.00	0.51	0.00				
54	62	Date Street	3.50	78.37	0.32	10,420,967	1.76	29.96	0.00	0.50	0.00				
62	61	Date Street	3.50	8.00	1.50	10,420,967	1.69	29.96	0.00	0.48	0.00				
61	53	Main Street	3.50	204.72	1.06	10,420,967	1.29	29.96	0.00	0.37	0.00				
53	65	Main Street	3.50	129.73	1.11	10,420,967	1.71	29.96	0.00	0.49	0.00				
65	66	Main Street	3.50	532.35	0.34	10,420,967	1.81	29.96	0.00	0.52	0.00				
66	60	Main Street	3.50	497.04	1.35	10,420,967	1.21	29.96	0.00	0.35	0.00				
60	59	Main Street	3.50	26.77	1.27	10,420,967	1.27	29.96	0.00	0.36	0.00				
59	58	Main Street	3.50	502.70	1.10	10,420,967	1.86	29.96	0.00	0.53	0.00				
58	57	Main Street	3.50	600.00	0.28	10,420,967	1.96	29.96	0.00	0.56	0.00				
57	68	Main Street	3.50	584.68	1.24	10,420,967	1.24	29.96	0.00	0.35	0.00				
68	67	Main Street	3.50	579.67	1.23	10,420,967	1.24	29.96	0.00	0.35	0.00				
67	56	Main Street	3.50	41.58	2.02	10,420,967	1.10	29.96	0.00	0.32	0.00				
56	63	Main Street	3.50	504.48	1.34	10,420,967	1.22	29.96	0.00	0.35	0.00				
63	64	Main Street	3.50	467.01	0.97	10,420,967	1.58	29.96	0.00	0.45	0.00				
64	69	Main Street	3.50	65.85	0.41	10,420,967	1.68	29.96	0.00	0.48	0.00				
69	100	Main Street	3.50	600.00	0.41	10,420,967	1.96	29.96	0.00	0.56	0.00				
100	99	Main Street	3.50	585.71	0.21	10,420,967	2.06	29.96	0.00	0.59	0.00				
99	98	Main Street	3.50	585.71	0.21	10,420,967	2.13	29.96	0.00	0.61	0.00				
98	97	Main Street	3.50	594.74	0.76	10,420,967	1.51	29.96	0.00	0.43	0.00				
97	96	Main Street	3.50	589.36	0.47	10,420,967	1.61	29.96	0.00	0.46	0.00				

Ultimate Conditions, Wet Weather
Salt Creek Model, Alternative 3

U/S Node	D/S Node	Street Name	Diameter (ft)	Length (ft)	Slope (%)	Average Flow (gpd)	Max Depth (ft)	Peak Flow (cfs)	Flood Loss (cfs)	d/D	Time (hr)	Max Surcharge Depth above crown (ft)	Max Surcharge Freeboard to MH rim (ft)	Length Exceeding d/D = 0.85	Length Exceeding d/D = 1
96	95	Main Street	3.50	51.06	0.47	10,420,967	1.61	29.96	0.00	0.46	0.00				
95	101	Main Street	3.50	247.54	0.61	10,420,967	1.50	29.96	0.00	0.43	0.00				
101	87	Main Street	3.50	593.44	0.61	10,420,967	1.50	29.96	0.00	0.43	0.00				
87	90	Main Street	3.50	600.00	0.90	10,420,967	1.35	29.96	0.00	0.39	0.00				
90	92	Main Street	3.50	575.00	0.73	10,420,967	1.62	29.96	0.00	0.46	0.00				
92	91	Main Street	3.50	44.12	0.34	10,420,967	1.72	29.96	0.00	0.49	0.00				
91	93	Main Street	3.50	155.88	0.34	10,420,967	1.76	29.96	0.00	0.50	0.00				
93	89	Main Street	3.50	528.13	0.64	10,420,967	1.74	29.96	0.00	0.50	0.00				
89	94	Main Street	3.50	375.00	0.36	10,420,967	2.15	29.96	0.00	0.61	0.00				
94	369	Main Street	3.50	686.96	0.24	10,420,967	2.25	29.96	0.00	0.64	0.00				
369	88	Main Street	3.50	204.48	2.68	10,420,967	1.63	29.96	0.00	0.47	0.00				
88	105	Main Street	3.50	1110.44	0.38	10,420,967	1.73	29.96	0.00	0.49	0.00				