

Storm Sewer Summary Report

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Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
1	EX FI	54.49	42	Cir	62.470	996.11	996.22	0.176	999.61*	999.79*	0.94	1000.73	End	DropCurb
2	1-1	28.50	42	Cir	220.420	996.65	998.00	0.612	1000.73	1000.87	0.09	1000.95	1	DropCurb
3	1-2	2.32	42	Cir	208.700	998.20	999.50	0.623	1000.95	999.95	n/a	999.95	2	OpenHeadwall
4	2-1	25.80	36	Cir	21.810	998.42	996.55	0.596	1000.73*	1000.76*	0.28	1001.04	1	Curb-Horiz
5	2-2	24.84	36	Cir	31.000	996.75	996.95	0.645	1001.04*	1001.08*	0.16	1001.24	4	Curb-Horiz
6	2-3	21.37	36	Cir	68.760	997.15	997.57	0.611	1001.24*	1001.31*	0.12	1001.43	5	DropCurb
7	2-4	19.27	30	Cir	316.660	998.57	1000.47	0.600	1001.43	1002.12	0.25	1002.36	6	DropCurb
8	2-5	13.35	24	Cir	368.000	1000.67	1003.63	0.804	1002.36	1004.94	n/a	1004.94 j	7	DropCurb
9	2-6	1.07	15	Cir	171.300	1004.38	1008.30	2.288	1004.94	1008.71	n/a	1008.71 j	8	DropCurb
10	4-1	12.21	24	Cir	134.090	1004.13	1004.93	0.597	1005.36	1006.19	0.80	1006.19	8	Curb-Horiz
11	4-2	10.10	24	Cir	31.000	1005.43	1005.62	0.613	1006.51	1006.76	n/a	1006.76	10	Curb-Horiz
12	4-3	5.05	18	Cir	33.190	1006.12	1006.32	0.603	1006.97	1007.18	0.35	1007.18	11	Curb-Horiz
13	4-4	2.79	15	Cir	30.500	1006.62	1007.01	0.623	1007.48	1007.68	n/a	1007.68	12	Curb-Horiz
14	4-5	0.84	15	Cir	121.150	1007.51	1009.00	1.230	1007.80	1009.36	0.13	1009.36	13	Curb-Horiz
15	5-2	29.17	60	Cir	122.210	1000.75	1001.50	0.614	1008.76*	1008.78*	0.03	1008.81	End	Manhole
16	5-3	29.79	48	Cir	129.500	1002.00	1002.78	0.602	1008.81*	1008.87*	0.12	1008.98	15	Curb-Horiz
17	5-4	30.05	48	Cir	151.940	1003.28	1004.20	0.605	1008.98*	1009.05*	0.12	1009.17	16	Curb-Horiz
18	5-5	26.44	42	Cir	124.560	1004.70	1005.45	0.602	1009.17*	1009.25*	0.18	1009.43	17	DropCurb
19	5-6	19.26	36	Cir	115.630	1005.95	1006.65	0.604	1009.43	1009.51	0.12	1009.63	18	DropCurb
20	6-2	33.93	36	Cir	74.540	998.00	998.45	0.604	999.77	1000.34	n/a	1000.34	End	Curb-Horiz
21	6-3	30.98	36	Cir	36.160	998.95	999.15	0.553	1000.67	1000.95	1.14	1000.95	20	Curb-Horiz
22	6-4	26.95	36	Cir	285.200	999.65	1001.35	0.596	1001.19	1003.03	n/a	1003.03	21	Curb-Horiz
23	6-5	2.94	15	Cir	31.070	1003.10	1005.00	6.115	1003.46	1005.69	n/a	1005.69	22	Curb-Horiz
24	3-1	22.87	36	Cir	124.500	1001.85	1002.80	0.602	1003.25	1004.14	n/a	1004.14	22	DropCurb
Project File: MANOR 2 PIPE STUDY.stm									Number of lines: 29			Run Date: 4/14/2017		
NOTES: Return period = 100 Yrs. ; *Surcharged (HGL above crown). ; j - Line contains hyd. jump.														

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Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
25	3-2	21.28	30	Cir	38.330	1003.10	1003.35	0.652	1004.56	1004.92	n/a	1004.92	24	DropCurb
26	3-3	19.84	30	Cir	170.580	1003.85	1004.87	0.598	1005.28	1006.38	0.32	1006.38	25	DropCurb
27	3-4	14.50	24	Cir	168.990	1005.12	1006.14	0.604	1006.51	1007.53	0.30	1007.83	26	DropCurb
28	3-5	2.03	18	Cir	170.610	1006.39	1007.41	0.598	1007.83	1007.95	n/a	1007.95 j	27	DropCurb
29	6-1	6.71	18	Cir	90.000	1006.64	1007.85	1.344	1007.83	1008.85	n/a	1008.85 j	27	DropCurb
Project File: MANOR 2 PIPE STUDY.stm									Number of lines: 29			Run Date: 4/14/2017		
NOTES: Return period = 100 Yrs. ; *Surcharged (HGL above crown). ; j - Line contains hyd. jump.														

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Inlet Report

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Line No	Inlet ID	Q - CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet		Gutter							Inlet			Byp Line No			
		(cfs)	(cfs)	(cfs)	(cfs)		Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)		Depr (in)		
1	EX FI	1.56	0.00	1.56	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.12	6.17	0.12	6.17	0.0	Off		
2	1-1	26.41*	0.00	26.41	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.013	0.81	40.67	0.81	40.67	0.0	Off		
3	1-2	2.32	0.00	2.32	0.00	Hdwl	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off		
4	2-1	1.35	0.20	0.69	0.85	Curb	10.0	5.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.013	0.18	6.16	0.15	4.56	0.0	Off		
5	2-2	3.91	0.00	1.14	2.77	Curb	10.0	5.00	0.00	0.00	0.00	0.020	2.00	0.050	0.020	0.013	0.25	9.31	0.22	8.01	0.0	Off		
6	2-3	3.21	0.00	3.21	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.20	9.98	0.20	9.98	0.0	Off		
7	2-4	7.58	0.00	7.58	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.35	17.69	0.35	17.69	0.0	Off		
8	2-5	0.45	0.00	0.45	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.013	0.05	2.70	0.05	2.70	0.0	Off		
9	2-6	1.07	0.00	1.07	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.013	0.10	4.78	0.10	4.78	0.0	Off		
10	4-1	2.19	0.00	2.19	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.013	0.28	10.85	0.28	10.85	0.0	Off		
11	4-2	5.62	0.00	5.62	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.013	0.52	22.97	0.52	22.97	0.0	Off		
12	4-3	2.53	0.00	2.53	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.013	0.31	12.26	0.31	12.26	0.0	Off		
13	4-4	2.11	0.35	2.47	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.30	11.99	0.30	11.99	0.0	Off		
14	4-5	0.84	0.00	0.49	0.35	Curb	10.0	5.00	0.00	0.00	0.00	0.020	2.00	0.050	0.020	0.013	0.15	4.56	0.11	2.61	0.0	13		
15	5-2	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off		
16	5-3	0.59	0.00	0.39	0.20	Curb	10.0	5.00	0.00	0.00	0.00	0.020	2.00	0.050	0.020	0.013	0.13	3.71	0.09	1.80	0.0	4		
17	5-4	4.09	0.00	4.09	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.42	18.02	0.42	18.02	0.0	Off		
18	5-5	8.55	0.00	8.55	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.38	19.16	0.38	19.16	0.0	Off		
19	5-6	19.26	0.00	19.26	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.66	32.95	0.66	32.95	0.0	Off		
20	6-2	3.45	0.00	0.91	2.54	Curb	10.0	5.00	0.00	0.00	0.00	0.040	2.00	0.050	0.020	0.013	0.21	7.61	0.19	6.61	0.0	Off		
21	6-3	4.73	0.00	1.49	3.25	Curb	10.0	5.00	0.00	0.00	0.00	0.010	2.00	0.050	0.020	0.013	0.29	11.55	0.26	9.91	0.0	Off		
22	6-4	2.23	0.00	2.23	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.28	11.01	0.28	11.01	0.0	Off		
23	6-5	2.94	0.00	2.94	0.00	Curb	10.0	5.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.34	13.87	0.34	13.87	0.0	Off		
Project File: MANOR 2 PIPE STUDY.stm														Number of lines: 29							Run Date: 4/14/2017			
NOTES: Inlet N-Values = 0.016; Intensity = 187.36 / (Inlet time + 18.10) ^ 0.90; Return period = 100 Yrs. ; * Indicates Known Q added. All curb inlets are Horiz throat.																								

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Inlet Report

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Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
		(cfs)	(cfs)	(cfs)	(cfs)		Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
24	3-1	2.16	0.00	2.16	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.15	7.66	0.15	7.66	0.0	Off
25	3-2	2.16	0.00	2.16	0.00	DrCrb	4.0	2.47	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.44	inf.00	0.44	inf.00	0.0	Off
26	3-3	6.10	0.00	6.10	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.31	15.30	0.31	15.30	0.0	Off
27	3-4	7.62	0.00	7.62	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.36	17.75	0.36	17.75	0.0	Off
28	3-5	2.03	0.00	2.03	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.15	7.34	0.15	7.34	0.0	Off
29	8-1	6.71	0.00	6.71	0.00	DrCrb	10.0	12.00	0.00	0.00	0.00	Sag	0.00	0.020	0.020	0.000	0.33	16.31	0.33	16.31	0.0	Off
Project File: MANOR 2 PIPE STUDY.stm														Number of lines: 29				Run Date: 4/14/2017				
NOTES: Inlet N-Values = 0.016; Intensity = 187.36 / (inlet time + 18.10) ^ 0.90; Return period = 100 Yrs. ; * Indicates Known Q added. All curb inlets are Horiz. throat.																						