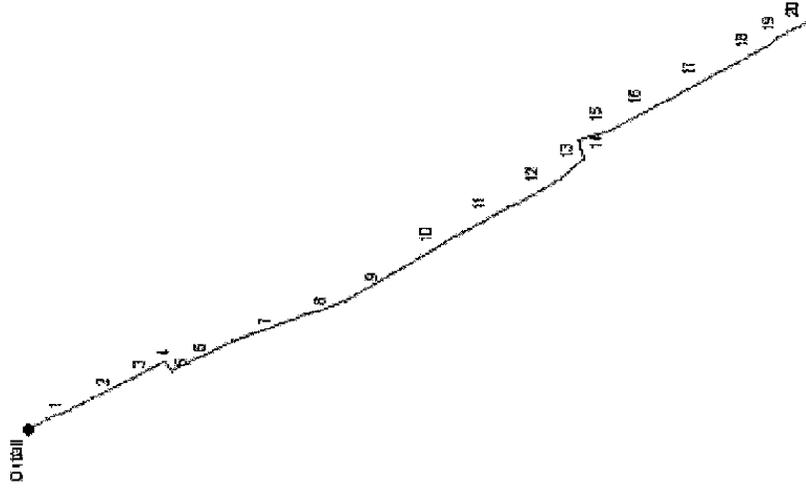


APPENDIX C

Pipe Capacity and HGL Calculations

Hydraflow Plan View



Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	MH40-MH39	50.10	48 c	600.0	1169.64	1170.36	0.120	1172.83	1173.60	0.05	End
2	MH39-MH38	49.60	48 c	400.0	1170.36	1170.84	0.120	1173.65	1174.12	0.05	1
3	MH38-MH37	49.60	48 c	418.0	1170.84	1171.34	0.120	1174.17	1174.65	0.05	2
4	MH37-P1	43.20	48 c	40.0	1171.34	1171.38	0.100	1174.70	1174.73	0.23	3
5	P1-P2	43.20	48 c	130.0	1171.38	1171.50	0.092	1174.96	1175.06	0.21	4
6	P2-P3	43.20	48 c	640.0	1171.50	1172.10	0.094	1175.27	1175.76	0.03	5
7	P3-P4	43.20	48 c	590.0	1172.10	1172.65	0.093	1175.79	1176.25	0.03	6
8	P4-P5	43.20	48 c	540.0	1172.65	1173.15	0.093	1176.28	1176.71	0.03	7
9	P5-P6	43.20	48 c	600.0	1173.15	1173.71	0.093	1176.74	1177.22	0.03	8
10	P6-P7	43.20	48 c	600.0	1173.70	1174.26	0.093	1177.25	1177.73	0.03	9
11	P7-P8	43.20	48 c	600.0	1174.26	1174.82	0.093	1177.76	1178.26	0.03	10
12	P8-P9	43.20	48 c	580.0	1174.82	1175.36	0.093	1178.29	1178.77	0.10	11
13	P9-P10	43.20	48 c	300.0	1175.36	1175.64	0.093	1178.87	1179.11	0.18	12
14	P10-P11	43.20	48 c	200.0	1175.64	1175.83	0.095	1179.30	1179.45	0.20	13
15	P11-P12	43.20	48 c	310.0	1175.83	1176.12	0.094	1179.66	1179.90	0.03	14
16	P12-P13	43.20	48 c	580.0	1176.12	1176.66	0.093	1179.92	1180.37	0.03	15
17	P13-P14	43.20	48 c	580.0	1176.66	1177.20	0.093	1180.40	1180.85	0.03	16
18	P14-P15	43.20	48 c	570.0	1177.20	1177.73	0.093	1180.88	1181.32	0.09	17
19	P15-P16	43.20	48 c	100.0	1177.73	1177.82	0.090	1181.42	1181.49	0.09	18
20	P16-P17	43.20	48 c	370.0	1177.82	1178.16	0.092	1181.58	1181.87	0.20	19

Project File: 48 inch-Tier 2.stm

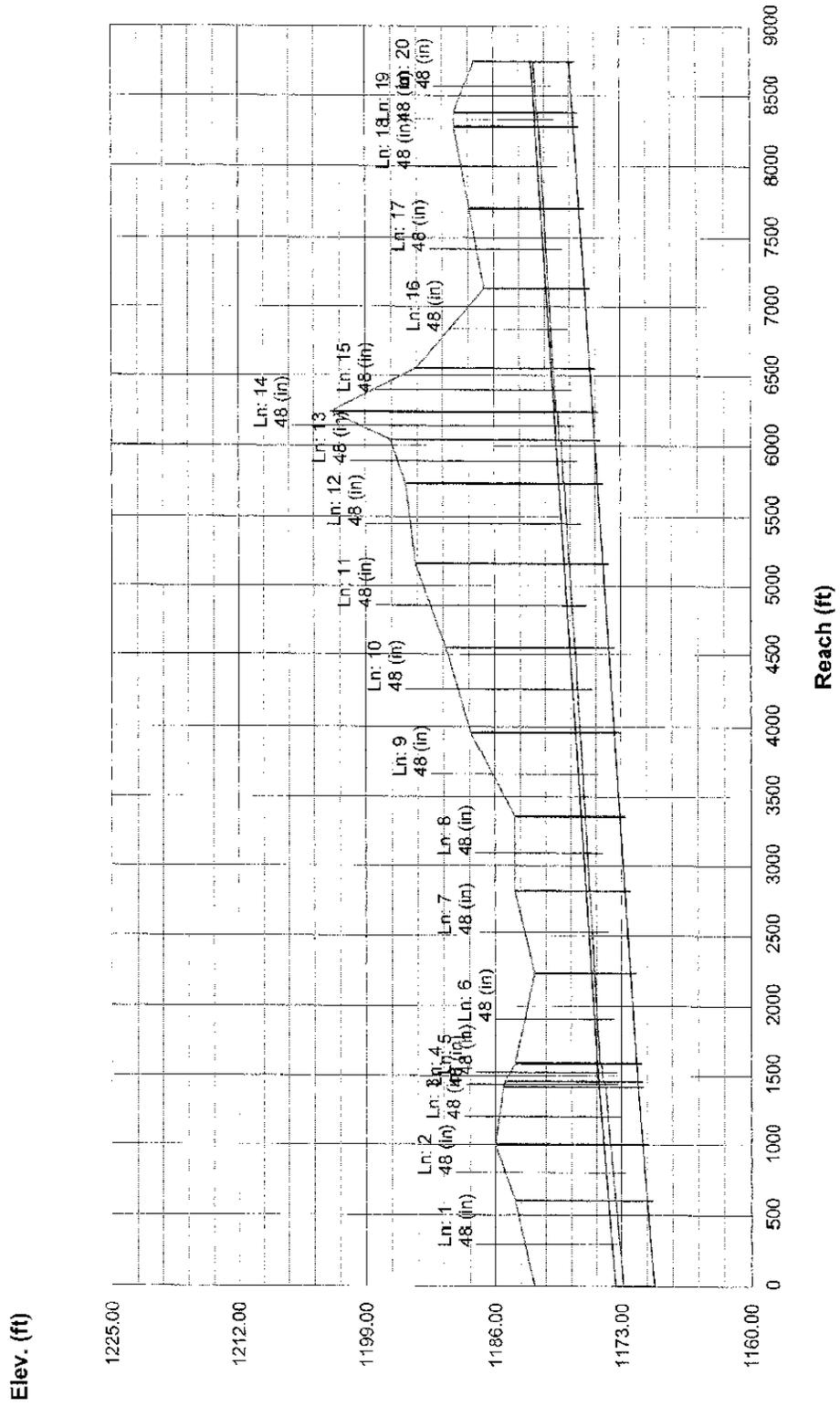
Number of lines: 20

Run Date: 08-30-2004

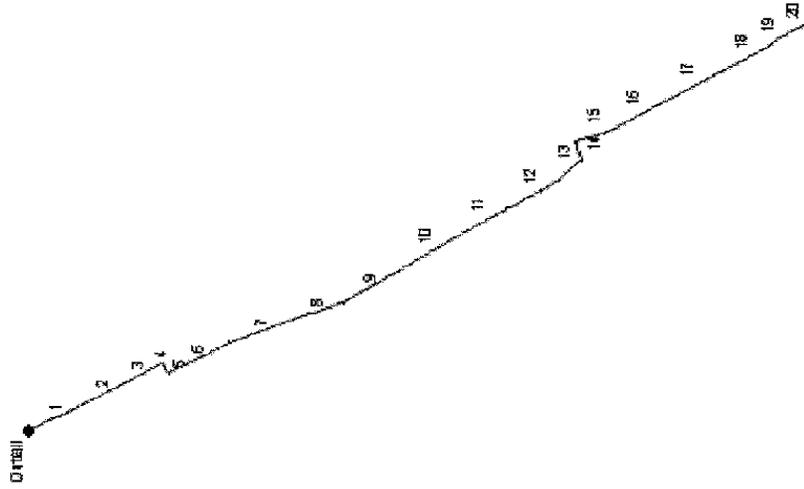
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.

Sewer Profile

Proj. file: 48 inch-Tier 2.stm



Hydraflow Plan View

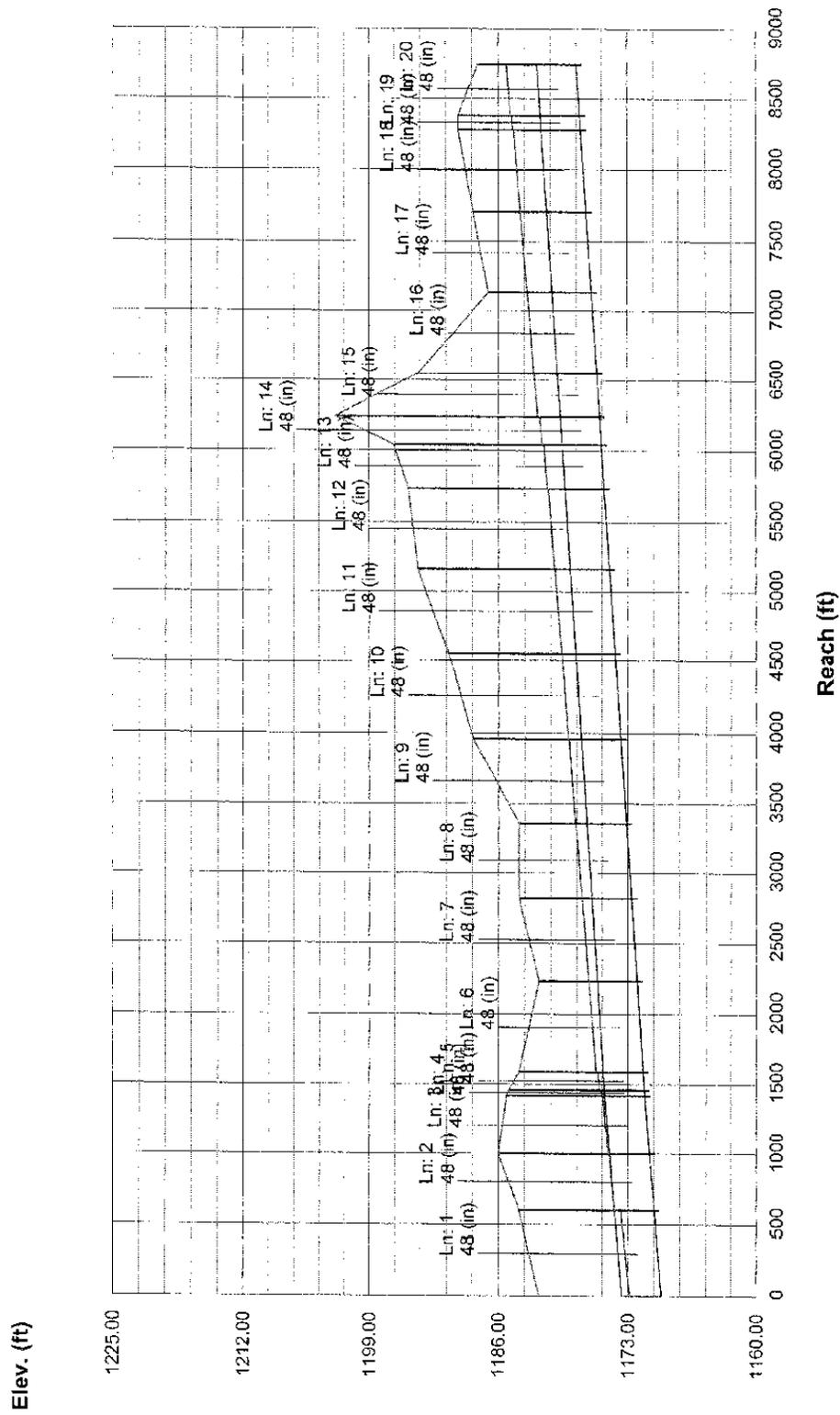


Sewer Summary Report

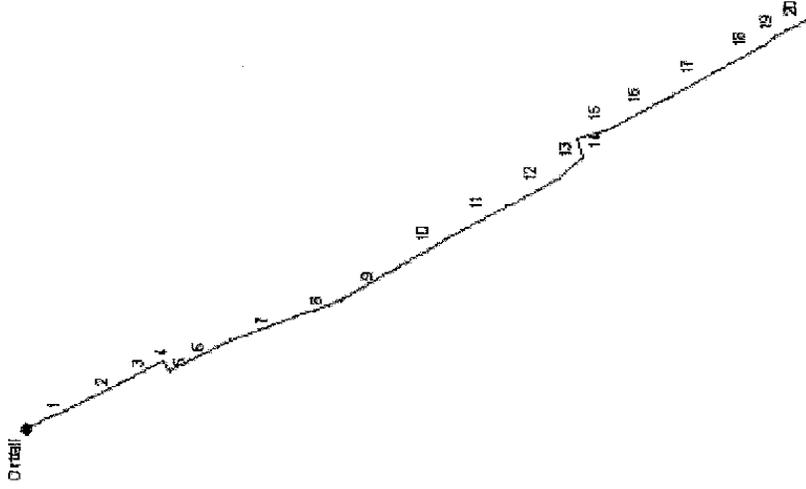
Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	MH40-MH39	54.70	48 c	600.0	1169.64	1170.36	0.120	1172.83	1173.74	0.05	End
2	MH39-MH38	54.20	48 c	400.0	1170.36	1170.84	0.120	1174.36*	1174.93*	0.04	1
3	MH38-MH37	54.20	48 c	418.0	1170.84	1171.34	0.120	1174.97*	1175.57*	0.04	2
4	MH37-P1	47.80	48 c	40.0	1171.34	1171.38	0.100	1175.61*	1175.66*	0.22	3
5	P1-P2	47.80	48 c	130.0	1171.38	1171.50	0.092	1175.88*	1176.03*	0.22	4
6	P2-P3	47.80	48 c	640.0	1171.50	1172.10	0.094	1176.25*	1176.96*	0.03	5
7	P3-P4	47.80	48 c	590.0	1172.10	1172.65	0.093	1176.99*	1177.65*	0.03	6
8	P4-P5	47.80	48 c	540.0	1172.65	1173.15	0.093	1177.68*	1178.28*	0.03	7
9	P5-P6	47.80	48 c	600.0	1173.15	1173.71	0.093	1178.31*	1178.98*	0.03	8
10	P6-P7	47.80	48 c	600.0	1173.70	1174.26	0.093	1179.01*	1179.68*	0.03	9
11	P7-P8	47.80	48 c	600.0	1174.26	1174.82	0.093	1179.71*	1180.37*	0.03	10
12	P8-P9	47.80	48 c	580.0	1174.82	1175.36	0.093	1180.41*	1181.05*	0.10	11
13	P9-P10	47.80	48 c	300.0	1175.36	1175.64	0.093	1181.15*	1181.48*	0.19	12
14	P10-P11	47.80	48 c	200.0	1175.64	1175.83	0.095	1181.67*	1181.90*	0.22	13
15	P11-P12	47.80	48 c	310.0	1175.83	1176.12	0.094	1182.12*	1182.46*	0.03	14
16	P12-P13	47.80	48 c	580.0	1176.12	1176.66	0.093	1182.50*	1183.14*	0.03	15
17	P13-P14	47.80	48 c	580.0	1176.66	1177.20	0.093	1183.17*	1183.82*	0.03	16
18	P14-P15	47.80	48 c	570.0	1177.20	1177.73	0.093	1183.85*	1184.48*	0.10	17
19	P15-P16	47.80	48 c	100.0	1177.73	1177.82	0.090	1184.58*	1184.69*	0.10	18
20	P16-P17	47.80	48 c	370.0	1177.82	1178.16	0.092	1184.80*	1185.20*	0.22	19
Project File: 48 inch-Total Ridgeline.stm						Number of lines: 20			Run Date: 08-30-2004		
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.											

Sewer Profile

Proj. file: 48 inch-Total Ridgeline.stm



Hydraflow Plan View



Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	MH40-MH39	54.70	48 c	600.0	1169.64	1170.36	0.120	1172.83	1173.74	0.05	End
2	MH39-MH38	54.20	48 c	400.0	1170.36	1170.84	0.120	1174.36*	1174.93*	0.04	1
3	MH38-MH37	54.20	48 c	418.0	1170.84	1171.34	0.120	1174.97*	1175.57*	0.04	2
4	MH37-P1	47.80	54 c	40.0	1171.34	1171.37	0.075	1175.61	1175.63	0.15	3
5	P1-P2	47.80	54 c	130.0	1171.37	1171.48	0.085	1175.78	1175.84	0.14	4
6	P2-P3	47.80	54 c	640.0	1171.48	1172.03	0.086	1175.99	1176.34	0.02	5
7	P3-P4	47.80	54 c	590.0	1172.03	1172.54	0.086	1176.36	1176.65	0.02	6
8	P4-P5	47.80	54 c	540.0	1172.54	1173.00	0.085	1176.68	1176.95	0.02	7
9	P5-P6	47.80	54 c	600.0	1173.00	1173.52	0.087	1176.97	1177.29	0.03	8
10	P6-P7	47.80	54 c	600.0	1173.52	1174.04	0.087	1177.32	1177.65	0.03	9
11	P7-P8	47.80	54 c	600.0	1174.04	1174.56	0.087	1177.68	1178.05	0.03	10
12	P8-P9	47.80	54 c	580.0	1174.56	1175.06	0.086	1178.08	1178.45	0.10	11
13	P9-P10	47.80	54 c	300.0	1175.06	1175.32	0.087	1178.55	1178.74	0.18	12
14	P10-P11	47.80	54 c	200.0	1175.32	1175.49	0.085	1178.92	1179.04	0.20	13
15	P11-P12	47.80	54 c	310.0	1175.49	1175.76	0.087	1179.24	1179.41	0.03	14
16	P12-P13	47.80	54 c	580.0	1175.76	1176.26	0.086	1179.44	1179.78	0.03	15
17	P13-P14	47.80	54 c	580.0	1176.26	1176.76	0.086	1179.81	1180.18	0.03	16
18	P14-P15	47.80	54 c	570.0	1176.76	1177.25	0.086	1180.21	1180.60	0.10	17
19	P15-P16	47.80	54 c	100.0	1177.25	1177.34	0.090	1180.70	1180.77	0.09	18
20	P16-P17	47.80	54 c	370.0	1177.34	1177.66	0.087	1180.86	1181.10	0.21	19

Project File: 54 inch-Total Ridgeline.stm

Number of lines: 20

Run Date: 08-30-2004

NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.

Sewer Profile

Proj. file: 54 inch-Total Ridgeline.stm

