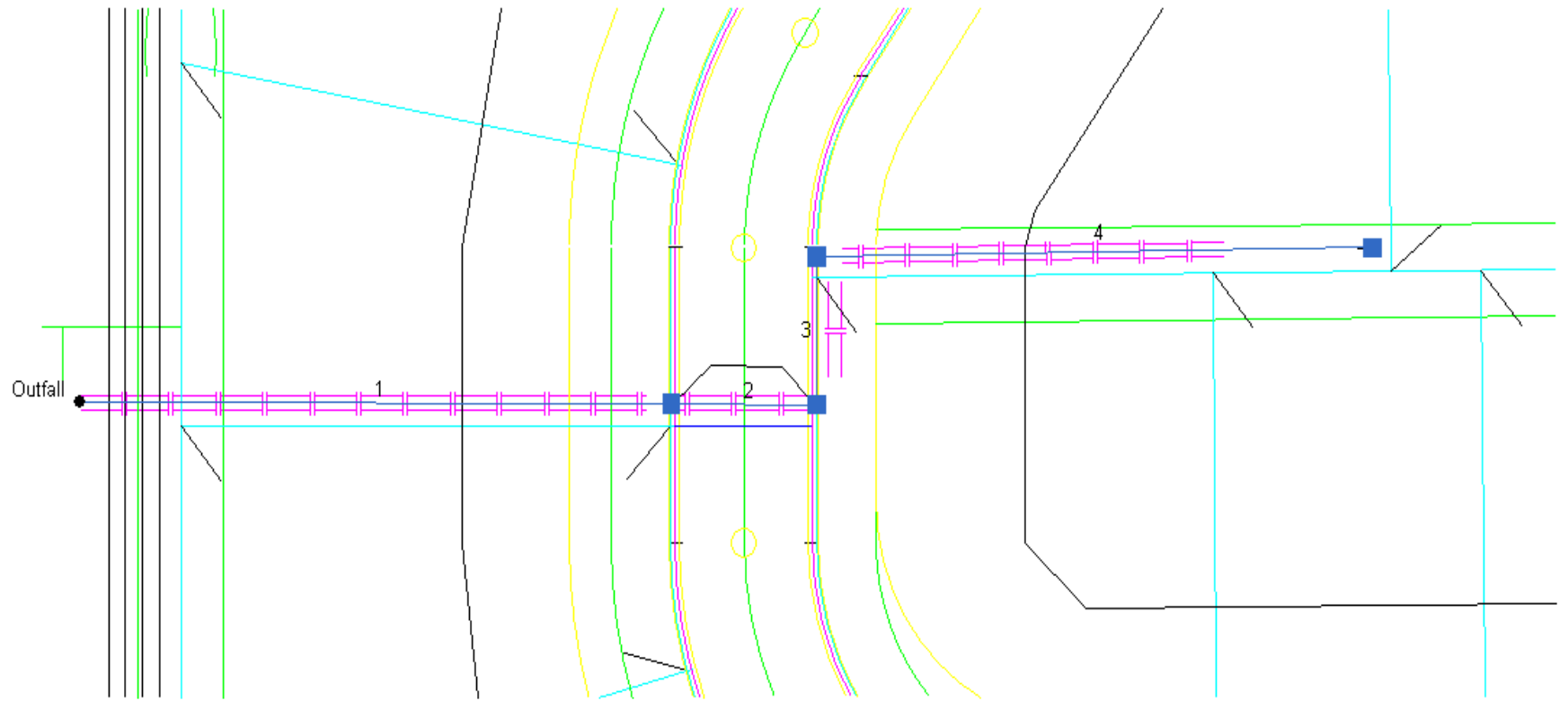


Hydraflow Plan View



Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr line No.	Line length (ft)	Defl angle (deg)	Junc type	Known Q (cfs)	Drng area (ac)	Runoff coeff (C)	Inlet time (min)	Invert EI Dn (ft)	Line slope (%)	Invert EI Up (ft)	Line size (in)	Line type	N value (n)	J-loss coeff (K)	Inlet/ Rim EI (ft)	
1	End	139.0	0.1	Curb	0.00	1.65	0.70	15.0	1345.00	0.45	1345.63	24	Cir	0.013	0.50	1349.80	
2	1	34.2	0.4	Curb	0.00	1.65	0.70	15.0	1345.63	0.47	1345.79	24	Cir	0.013	1.50	1349.80	
3	2	31.5	-90.5	Curb	0.00	0.00	0.00	0.0	1346.29	0.45	1346.43	18	Cir	0.013	1.50	1350.00	
4	3	130.2	89.2	DrGrt	0.00	1.30	0.70	15.0	1346.43	0.45	1347.02	18	Cir	0.013	1.00	1348.70	
Project File: SWS1.stm												Number of lines: 4				Date: 07-02-2007	

Storm 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)	HGL Junct (ft)	Dns line No.
1		16.81	24 c	139.0	1345.00	1345.63	0.453	1346.73	1347.46	n/a	1347.80 i	End
2		10.78	24 c	34.2	1345.63	1345.79	0.467	1347.80*	1347.88*	0.27	1348.16	1
3		4.75	18 c	31.5	1346.29	1346.43	0.453	1348.23*	1348.29*	0.17	1348.46	2
4		4.75	18 c	130.2	1346.43	1347.02	0.453	1348.46*	1348.73*	0.11	1348.84	3

Project File: SWS1.stm

Number of lines: 4

Run Date: 07-02-2007

NOTES: c = cir; e = ellip; b = box; Return period = 10 Yrs. ; *Surcharged (HGL above crown). ; i - Inlet control.

Inlet Report

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q byp (cfs)	Junc type	Curb Inlet		Grate Inlet			Gutter						Inlet			Byp line No	
							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		6.03	0.00	6.03	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.48	8.38	0.59	8.38	2.00	Off
2		6.03	0.00	6.03	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.48	8.38	0.59	8.38	2.00	1
3		0.00	0.00	0.00	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.06	0.75	0.17	1.25	2.00	2
4		4.75	0.00	4.75	0.00	DrGrt	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.050	0.050	0.013	0.26	12.36	0.26	12.36	0.00	3

Project File: SWS1.stm

Number of lines: 4

Run Date: 07-02-2007

NOTES: Inlet N-Values = 0.016 ; Intensity = 55.18 / (Inlet time + 11.10) ^ 0.72; Return period = 10 Yrs. ; * Indicates Known Q added

Hydraulic Grade Line Computations

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
1	24	16.81	1345.00	1346.73	1.73	2.89	5.82	0.53	1347.26	n/a	139	1345.63	1347.46	1.83	3.01	5.58	0.48	1347.94i	n/a	n/a	0.203	0.50	n/a
2	24	10.78	1345.63	1347.80	2.00	3.14	3.43	0.18	1347.99	0.227	34.2	1345.79	1347.88	2.00	3.14	3.43	0.18	1348.07	0.227	0.227	0.078	1.50	0.27
3	18	4.75	1346.29	1348.23	1.50	1.77	2.69	0.11	1348.34	0.205	31.5	1346.43	1348.29	1.50	1.77	2.69	0.11	1348.40	0.205	0.205	0.065	1.50	0.17
4	18	4.75	1346.43	1348.46	1.50	1.77	2.69	0.11	1348.57	0.205	130	1347.02	1348.73	1.50	1.77	2.69	0.11	1348.84	0.205	0.205	0.267	1.00	0.11

Project File: SWS1.stm

Number of lines: 4

Run Date: 07-02-2007