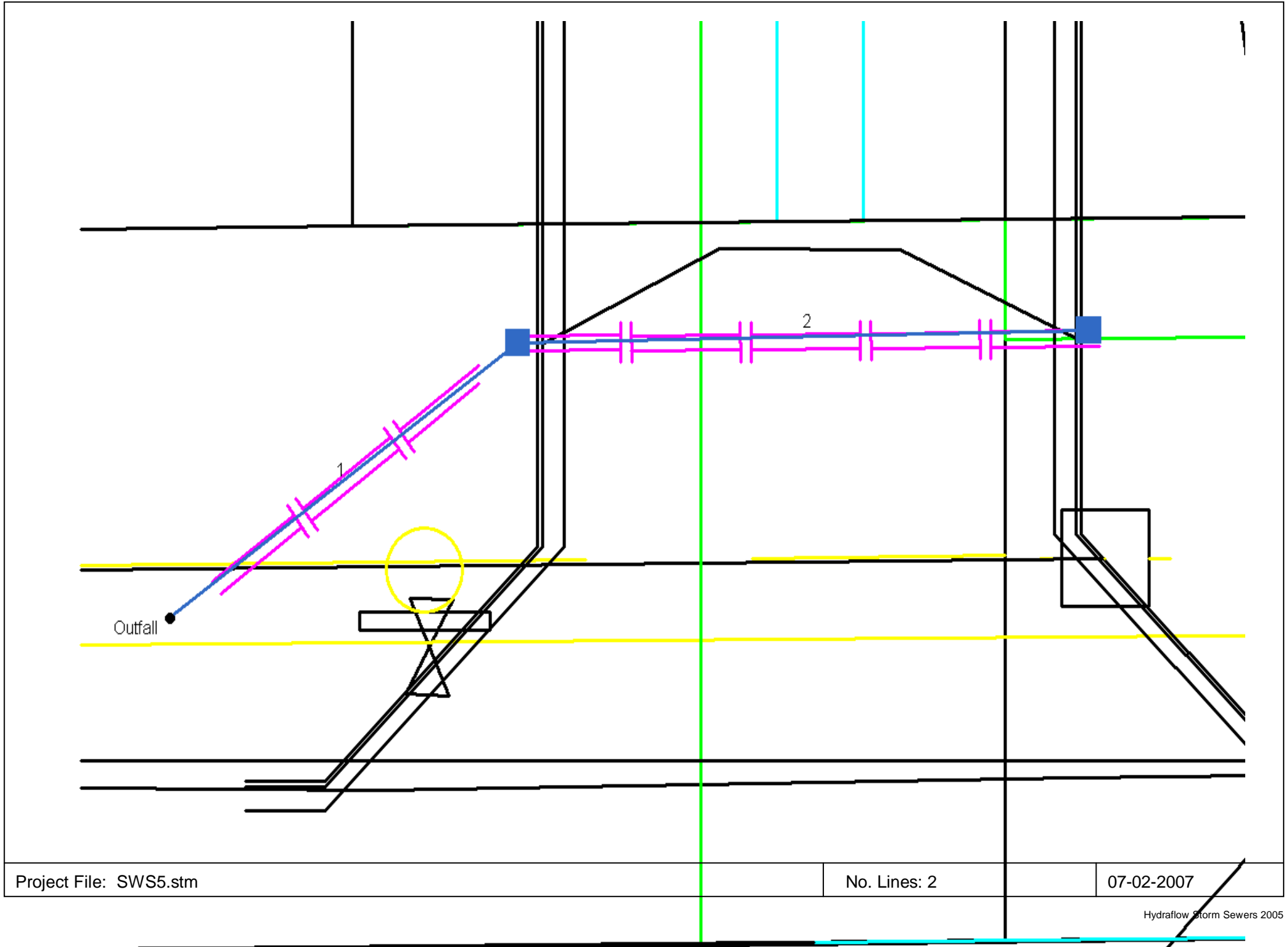


# Hydraflow Plan View



Project File: SWS5.stm

No. Lines: 2

07-02-2007

# 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 El Dn (ft)	Line slope (%)	Invert El Up (ft)	Line size (in)	Line type	N value (n)	J-loss coeff (K)	Inlet/ Rim El (ft)	
1	End	39.3	-35.6	Curb	0.00	1.00	0.70	15.0	1345.30	0.31	1345.42	15	Cir	0.013	0.93	1348.00	
2	1	52.4	34.5	Curb	0.00	1.00	0.70	15.0	1345.42	0.31	1345.58	15	Cir	0.013	1.00	1348.00	
Project File: SWS5.stm												Number of lines: 2				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		5.39	15 c	39.3	1345.30	1345.42	0.305	1346.49*	1346.76*	n/a	1346.83 i	End
2		2.69	15 c	52.4	1345.42	1345.58	0.305	1346.83*	1346.92*	0.07	1346.99	1

Project File: SWS5.stm

Number of lines: 2

Run Date: 07-02-2007

NOTES: c = cir; e = ellip; b = box; Return period = 2 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		2.69	0.00	2.69	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.30	4.89	0.41	4.89	2.00	Off
2		2.69	0.00	2.69	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.30	4.89	0.41	4.89	2.00	1

Project File: SWS5.stm

Number of lines: 2

Run Date: 07-02-2007

NOTES: Inlet N-Values = 0.016 ; Intensity = 76.31 / (Inlet time + 14.30) ^ 0.88; Return period = 2 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	15	5.39	1345.30	1346.49	1.19	1.21	4.47	0.31	1346.80	n/a	39.3	1345.42	1346.76	1.25	1.23	4.39	0.30	1347.06i	n/a	n/a	-0.044	0.93	n/a
2	15	2.69	1345.42	1346.83	1.25	1.23	2.20	0.07	1346.90	0.174	52.4	1345.58	1346.92	1.25	1.23	2.20	0.07	1346.99	0.174	0.174	0.091	1.00	0.07

Project File: SWS5.stm

Number of lines: 2

Run Date: 07-02-2007