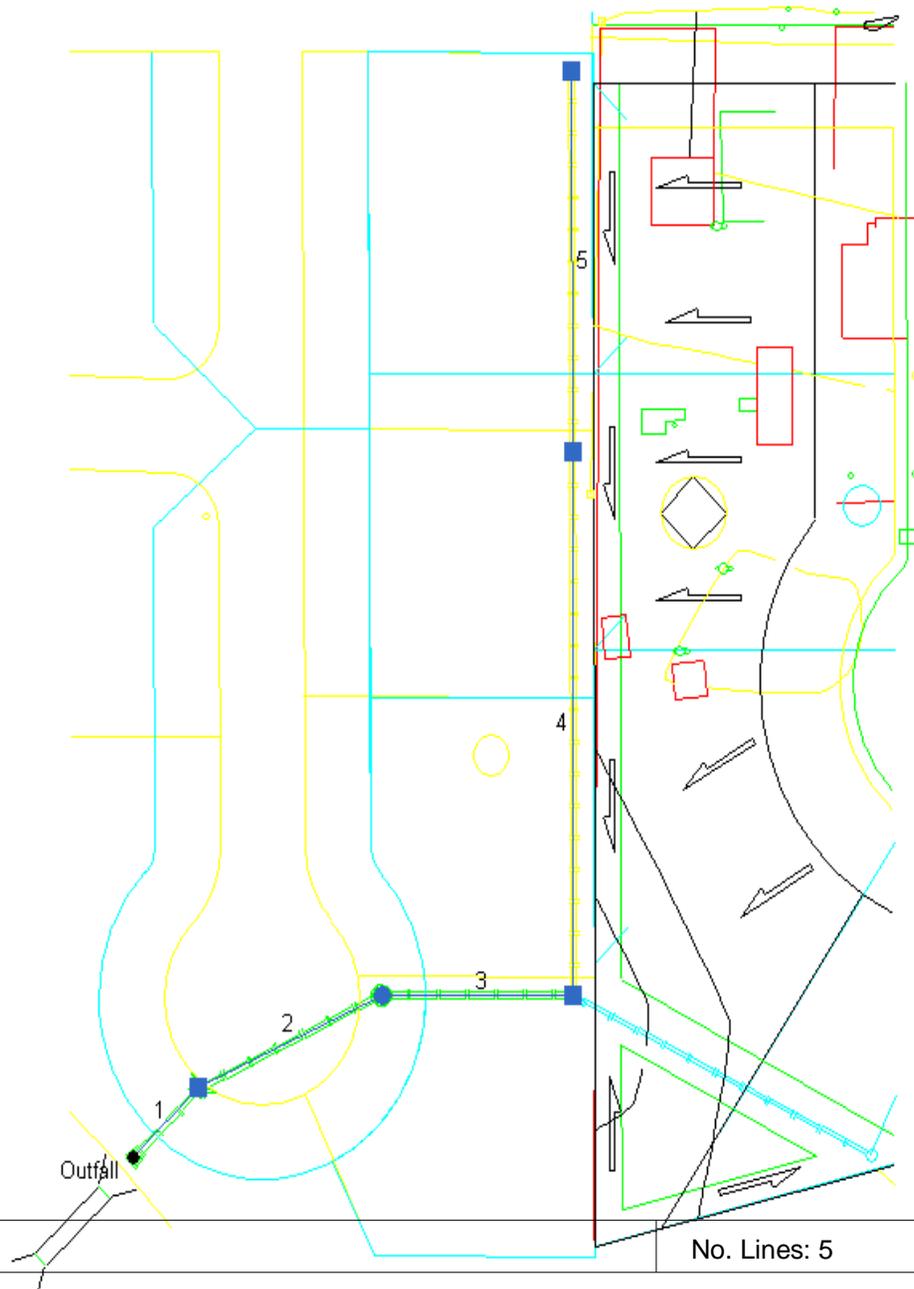


# Hydraflow Plan View



Willow Place 2nd

No. Lines: 5

06-19-2007

# 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	34.1	-44.4	Curb	0.00	0.53	0.93	15.0	1390.00	0.44	1390.15	24	Cir	0.013	0.59	1396.28	
2	1	76.5	20.0	MH	0.00	0.00	0.00	0.0	1390.15	0.46	1390.50	24	Cir	0.013	0.47	1396.28	
3	2	72.5	24.4	DrGrt	0.00	2.80	0.73	15.0	1390.50	0.46	1390.83	24	Cir	0.013	1.50	1394.08	
4	3	186.8	-90.0	DrGrt	0.00	0.22	0.73	15.0	1391.33	0.44	1392.16	18	Cir	0.013	0.50	1396.27	
5	4	130.8	-0.2	DrGrt	0.00	0.21	0.73	15.0	1392.16	0.58	1392.92	18	Cir	0.013	1.00	1396.45	
Willow Place 2nd												Number of lines: 5				Date: 06-19-2007	

# 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		10.97	24 c	34.1	1390.00	1390.15	0.440	1391.62	1391.68	0.17	1391.84	End
2		9.07	24 c	76.5	1390.15	1390.50	0.457	1391.88	1391.96	0.10	1392.06	1
3		9.07	24 c	72.5	1390.50	1390.83	0.455	1392.14	1392.21	0.36	1392.57	2
4		1.21	18 c	186.8	1391.33	1392.16	0.444	1392.75	1392.80	0.02	1392.83	3
5		0.59	18 c	130.8	1392.16	1392.92	0.581	1392.87	1393.21	n/a	1393.30 i	4

Willow Place 2nd

Number of lines: 5

Run Date: 06-19-2007

NOTES: c = cir; e = ellip; b = box; Return period = 2 Yrs. ; i - Inlet control.

# Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
1	End	34.1	0.53	3.76	0.93	0.49	2.85	15.0	26.9	2.8	10.97	15.01	4.15	24	0.44	1390.15	1390.00	1391.68	1391.62	1396.28	1394.50	
2	1	76.5	0.00	3.23	0.00	0.00	2.36	0.0	26.5	2.9	9.07	15.29	3.43	24	0.46	1390.50	1390.15	1391.96	1391.88	1396.28	1396.28	
3	2	72.5	2.80	3.23	0.73	2.04	2.36	15.0	26.1	2.9	9.07	15.26	3.61	24	0.46	1390.83	1390.50	1392.21	1392.14	1394.08	1396.28	
4	3	186.8	0.22	0.43	0.73	0.16	0.31	15.0	21.5	3.2	1.21	7.00	1.18	18	0.44	1392.16	1391.33	1392.80	1392.75	1396.27	1394.08	
5	4	130.8	0.21	0.21	0.73	0.15	0.15	15.0	15.0	3.8	0.59	8.00	1.57	18	0.58	1392.92	1392.16	1393.21	1392.87	1396.45	1396.27	

<b>Willow Place 2nd</b>	Number of lines: 5	Run Date: 06-19-2007
-------------------------	--------------------	----------------------

NOTES: Intensity = 76.31 / (Inlet time + 14.30) ^ 0.88; Return period = 2 Yrs. ; Total flows limited to inlet captured flows.

# Storm Sewer Profile

Elev. (ft)

