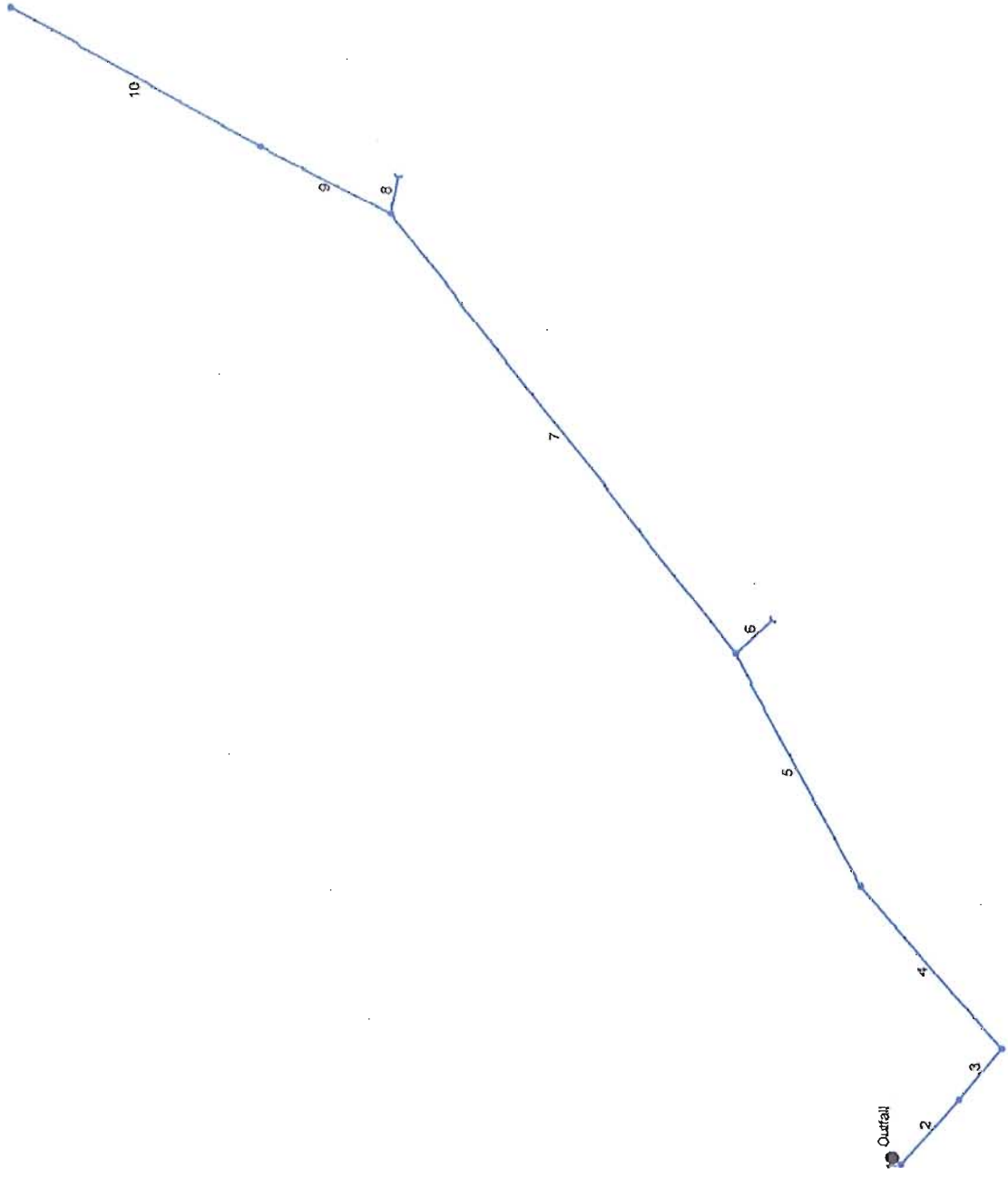


# Hydraflow Storm Sewers Extension for AutoCAD® Civil 3D® 2009 Plan



Project File: Jacoby2.stm

*CONDITION a) and b)*

Number of lines: 10

Date: 06-11-2010

# 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)	Dmg area (ac)	Runoff coeff (C)	Inlet time (min)	Invert El Dn (ft)	Line slope (%)	Invert El Up (ft)	Line size (in)	Line shape	N value (n)		J-loss coeff (K)
1	End	10.000	129.945	DrGrt	0.00	0.00	0.00	0.0	0.10	1.00	0.20	48	Cir	0.013	1.50	6.00
2	1	80.000	-87.654	DrGrt	0.00	0.00	0.00	0.0	0.70	0.00	0.70	30	Cir	0.013	0.50	6.20
3	2	60.000	-3.097	MH	0.00	0.00	0.00	0.0	0.70	0.17	0.80	30	Cir	0.013	0.99	7.30
4	3	200.000	-79.797	MH	0.00	0.00	0.00	0.0	1.20	0.30	1.80	27	Cir	0.013	0.25	8.40
5	4	245.000	12.103	DrGrt	0.00	0.00	0.00	0.0	1.80	-0.20	1.30	27	Cir	0.013	1.47	6.30
6	5	45.000	76.983	Hdwl	5.00	0.00	0.00	0.0	1.60	1.33	2.20	18	Cir	0.013	1.00	6.50
7	5	515.000	-9.541	MH	0.00	0.00	0.00	0.0	1.30	0.58	4.30	24	Cir	0.013	0.80	8.20
8	7	35.000	49.329	Hdwl	8.10	0.00	0.00	0.0	4.30	4.29	5.80	24	Cir	0.013	1.00	8.80
9	7	135.000	-25.000	DrGrt	1.00	0.00	0.00	0.0	5.30	0.52	6.00	12	Cir	0.013	0.50	7.50
10	9	265.000	1.624	DrGrt	1.00	0.00	0.00	0.0	6.00	0.19	6.50	12	Cir	0.013	1.00	8.90

Project File: Jacoby2.stm

Number of lines: 10

Date: 06-11-2010

# Storm Sewer Tabulation

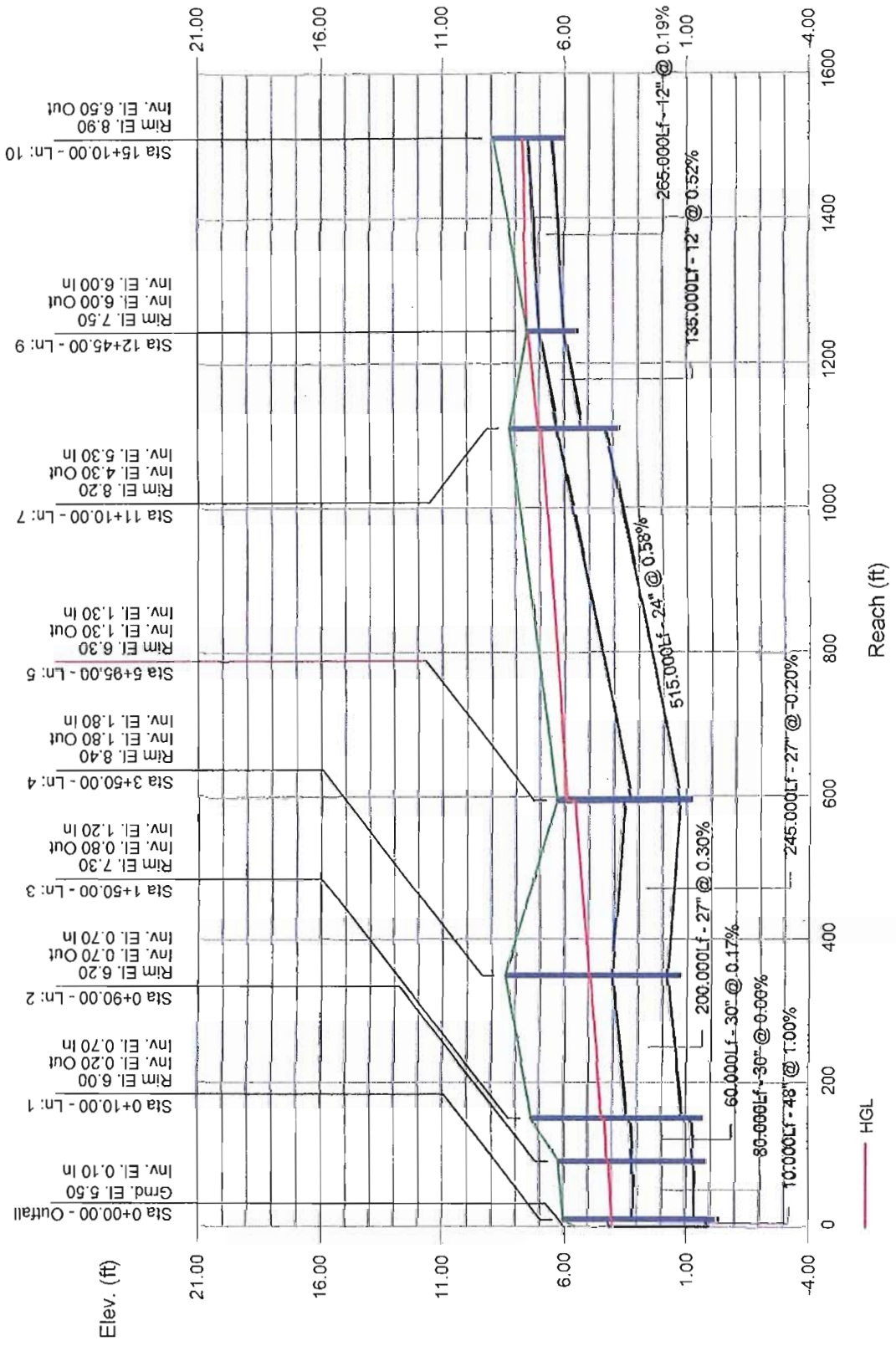
Station Line	To Line	Len (ft)	Drng Area		Rnoff coeff	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
			Incr	Total		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	10,000	0.00	0.00	0.00	0.00	0.00	0.0	9.7	0.0	15.10	143.6	1.22	48	1.00	0.10	0.20	4.00	4.00	5.50	6.00	
2	1	80,000	0.00	0.00	0.00	0.00	0.0	0.0	9.3	0.0	15.10	0.00	3.08	30	0.00	0.70	0.70	4.04	4.14	6.00	6.20	
3	2	60,000	0.00	0.00	0.00	0.00	0.0	0.0	9.0	0.0	15.10	16.74	3.08	30	0.17	0.70	0.80	4.22	4.30	6.20	7.30	
4	3	200,000	0.00	0.00	0.00	0.00	0.0	0.0	8.1	0.0	15.10	16.96	3.80	27	0.30	1.20	1.80	4.44	4.92	7.30	8.40	
5	4	245,000	0.00	0.00	0.00	0.00	0.0	0.0	7.0	0.0	15.10	0.00	3.80	27	-0.20	1.80	1.30	4.98	5.56	8.40	6.30	
6	5	45,000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	5.00	12.13	2.83	18	1.33	1.60	2.20	5.89	5.99	6.30	6.50	
7	5	515,000	0.00	0.00	0.00	0.00	0.0	0.0	4.4	0.0	10.10	17.26	3.22	24	0.58	1.30	4.30	5.89	6.92	6.30	8.20	
8	7	35,000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	8.10	46.82	3.52	24	4.29	4.30	5.80	7.05	6.92	8.20	8.80	
9	7	135,000	0.00	0.00	0.00	0.00	0.0	0.0	3.5	0.0	2.00	2.56	2.55	12	0.52	5.30	6.00	7.05	7.47	8.20	7.50	
10	9	265,000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1.00	1.55	1.27	12	0.19	6.00	6.50	7.52	7.73	7.50	8.90	

Project File: Jacoby2.stm Number of lines: 10 Run Date: 06-11-2010

NOTES: Intensity = 9.01 / (Inlet time + 0.50) ^ 0.49; Return period = 100 Yrs. ; c = cir e = ellip b = box

# Storm Sewer Profile

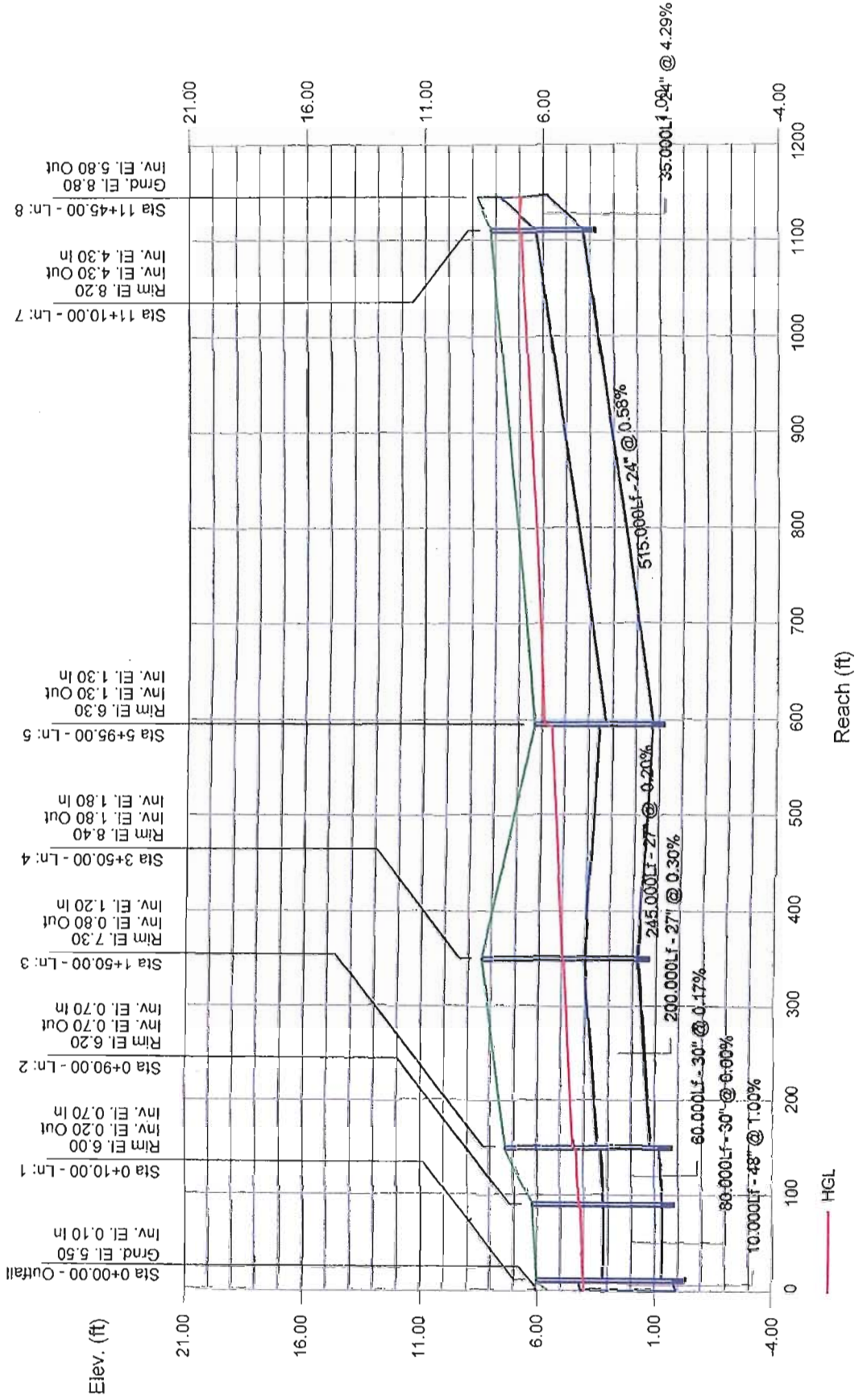
Proj. file: Jacoby2.stm



10

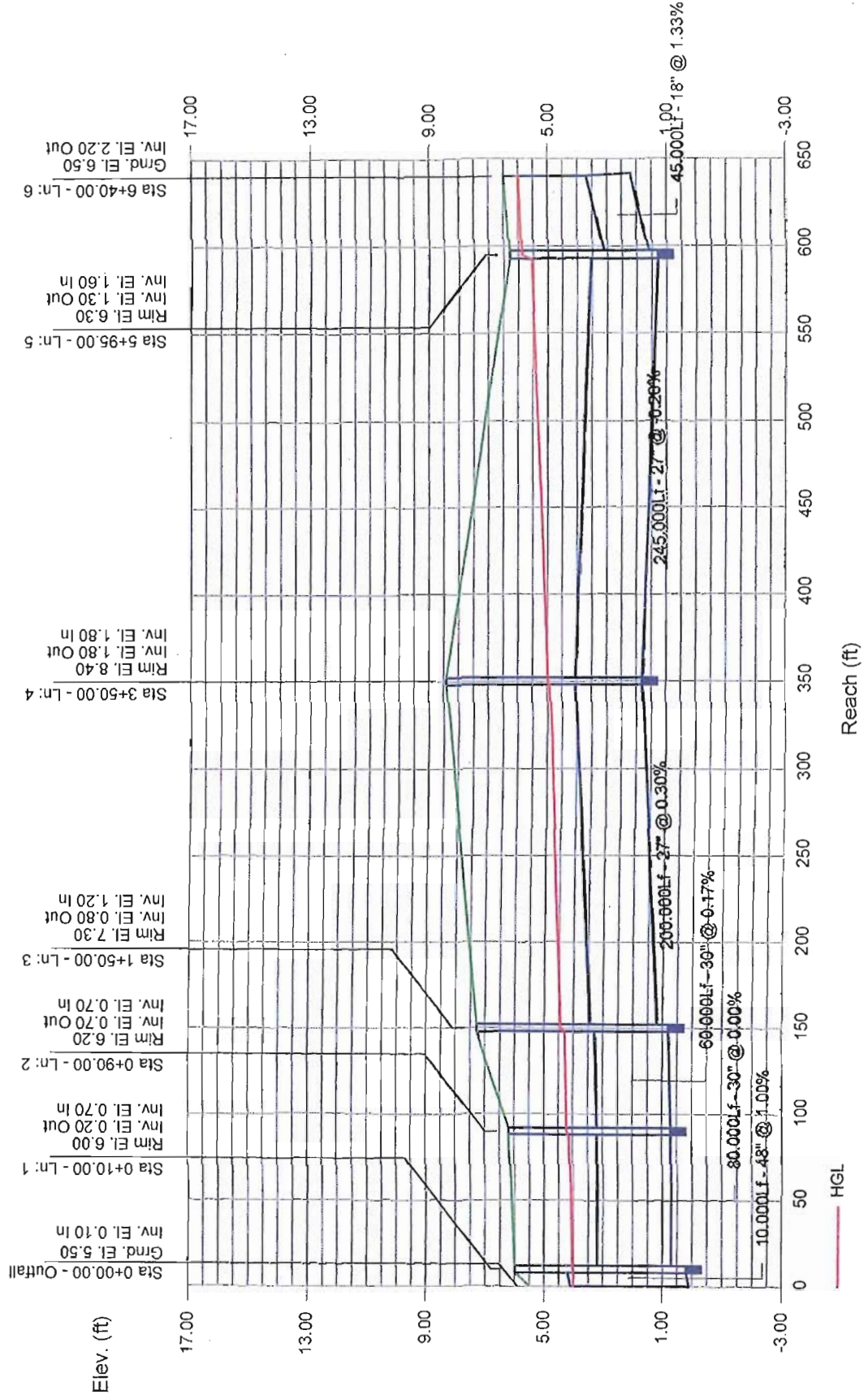
# Storm Sewer Profile

Proj. file: Jacoby2.stm



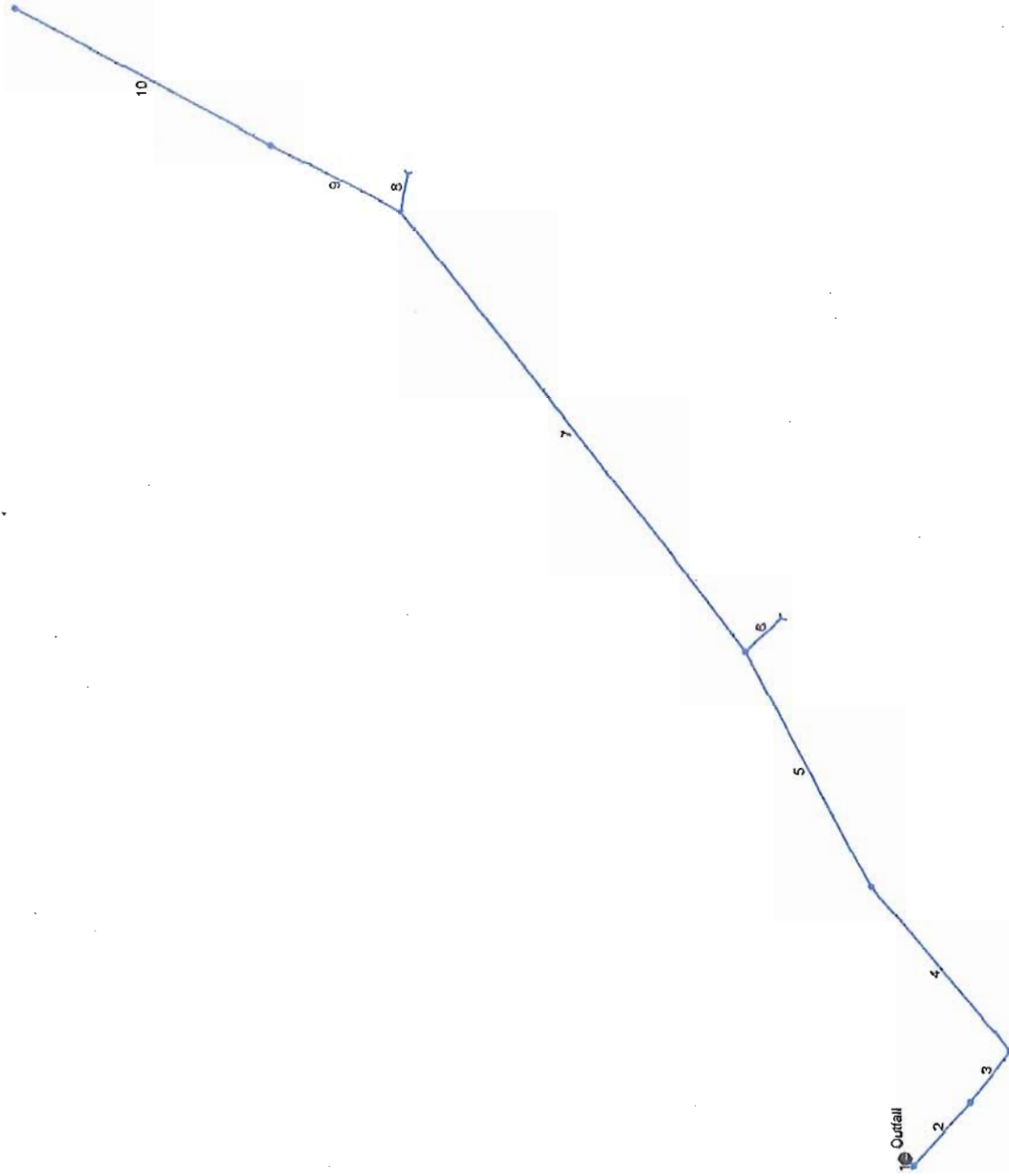
# Storm Sewer Profile

Proj. file: Jacoby2.stm



10

# Hydraflow Storm Sewers Extension for AutoCAD® Civil 3D® 2009 Plan



Project File: Jacoby2before.stm

*CONDITION c) and d)*

Number of lines: 10

Date: 07-01-2010

# 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 shape	N value (n)	J-loss coeff (K)	
1	End	10.000	129.945	DrGrt	0.00	0.00	0.00	0.0	0.10	1.00	0.20	48	Cir	0.013	1.50	6.00
2	1	80.000	-87.654	DrGrt	0.00	0.00	0.00	0.0	0.70	0.00	0.70	30	Cir	0.013	0.50	6.20
3	2	60.000	-3.097	MH	0.00	0.00	0.00	0.0	0.70	0.17	0.80	30	Cir	0.013	0.99	7.30
4	3	200.000	-79.797	MH	0.00	0.00	0.00	0.0	1.20	0.30	1.80	27	Cir	0.013	0.25	8.40
5	4	245.000	12.103	DrGrt	0.00	0.00	0.00	0.0	1.80	-0.20	1.30	27	Cir	0.013	1.47	6.30
6	5	45.000	76.983	Hdwl	4.60	0.00	0.00	0.0	1.60	1.33	2.20	18	Cir	0.013	1.00	6.50
7	5	515.000	-9.541	MH	0.00	0.00	0.00	0.0	1.30	0.58	4.30	24	Cir	0.013	0.80	8.20
8	7	35.000	49.329	Hdwl	7.80	0.00	0.00	0.0	4.30	4.29	5.80	24	Cir	0.013	1.00	8.80
9	7	135.000	-25.000	DrGrt	1.00	0.00	0.00	0.0	5.30	0.52	6.00	12	Cir	0.013	0.50	7.50
10	9	265.000	1.624	DrGrt	1.00	0.00	0.00	0.0	6.00	0.19	6.50	12	Cir	0.013	1.00	8.90

Project File: Jacoby2before.stm

Number of lines: 10

Date: 07-01-2010



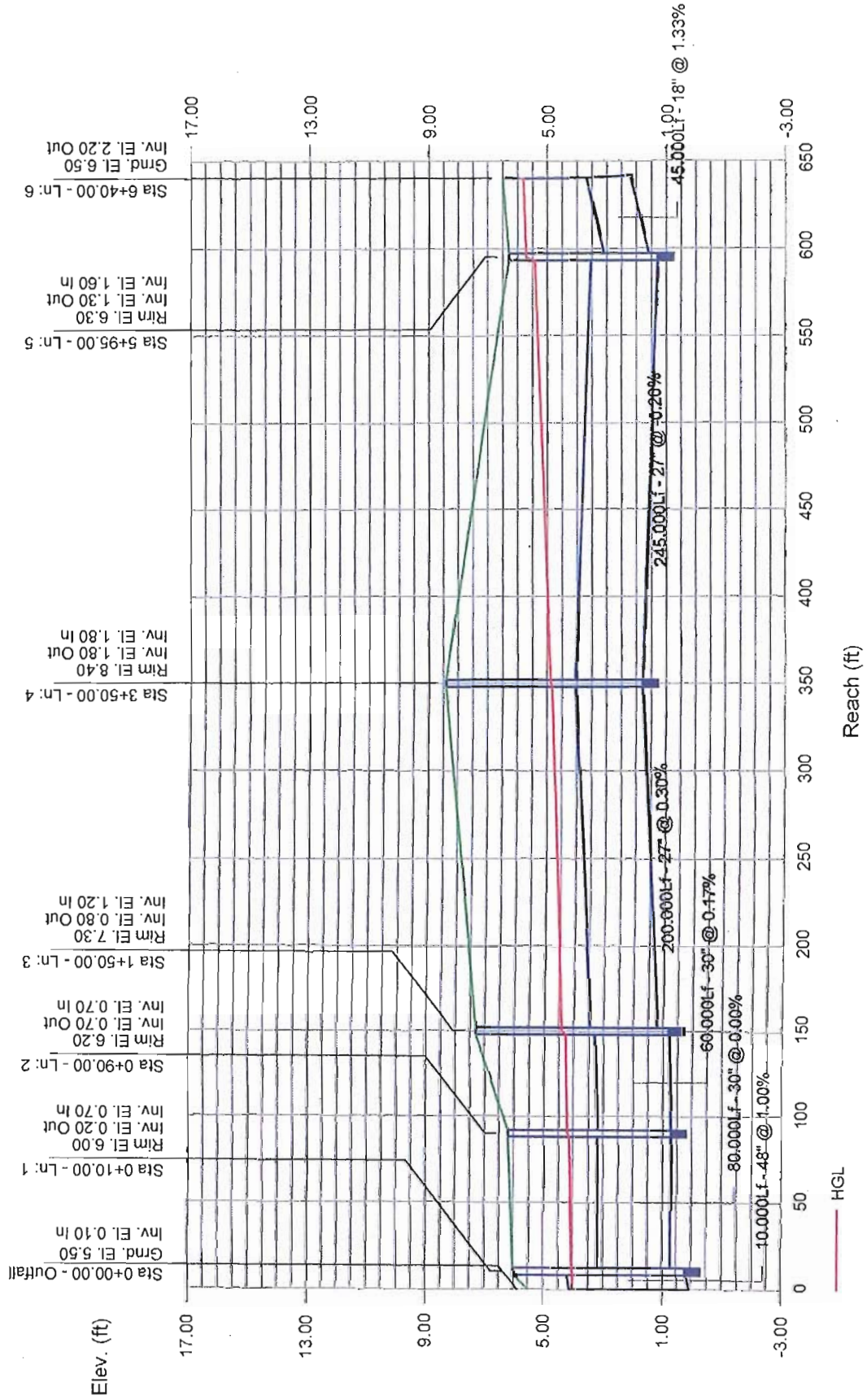
# Storm Sewer Tabulation

Station Line	Len (ft)	Dmg Area (ac)		Rnoff coeff (C)	Area x C		Tc (min)		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev (ft)		HGL Elev (ft)		Grnd / Rim Elev (ft)		Line ID
		Incr	Total		Incr	Total	Inlet	Syst					Size (in)	Slope (%)	Dn	Up	Dn	Up	Dn	Up	
1	End	10.000	0.00	0.00	0.00	0.00	0.0	9.9	0.0	14.40	143.6	1.16	48	1.00	0.10	0.20	4.00	4.00	5.50	6.00	
2	1	80.000	0.00	0.00	0.00	0.00	0.0	9.5	0.0	14.40	0.00	2.93	30	0.00	0.70	0.70	4.03	4.13	6.00	6.20	
3	2	60.000	0.00	0.00	0.00	0.00	0.0	9.1	0.0	14.40	16.74	2.93	30	0.17	0.70	0.80	4.20	4.27	6.20	7.30	
4	3	200.000	0.00	0.00	0.00	0.00	0.0	8.2	0.0	14.40	16.96	3.62	27	0.30	1.20	1.80	4.40	4.84	7.30	8.40	
5	4	245.000	0.00	0.00	0.00	0.00	0.0	7.1	0.0	14.40	0.00	3.62	27	-0.20	1.80	1.30	4.89	5.42	8.40	6.30	
6	5	45.000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	4.60	12.13	2.60	18	1.33	1.60	2.20	5.72	5.80	6.30	6.50	
7	5	515.000	0.00	0.00	0.00	0.00	0.0	4.3	0.0	9.80	17.26	3.12	24	0.58	1.30	4.30	5.72	6.69	6.30	8.20	
8	7	35.000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	7.80	46.82	3.76	24	4.29	4.30	5.80	6.81	8.20	8.20	8.80	
9	7	135.000	0.00	0.00	0.00	0.00	0.0	3.5	0.0	2.00	2.56	2.55	12	0.52	5.30	6.00	6.81	8.20	8.20	7.50	
10	9	265.000	0.00	0.00	0.00	0.00	0.0	0.0	0.0	1.00	1.55	1.28	12	0.19	6.00	6.50	7.28	7.48	7.50	8.90	

Project File: Jacoby2before.stm Number of lines: 10 Run Date: 07-01-2010

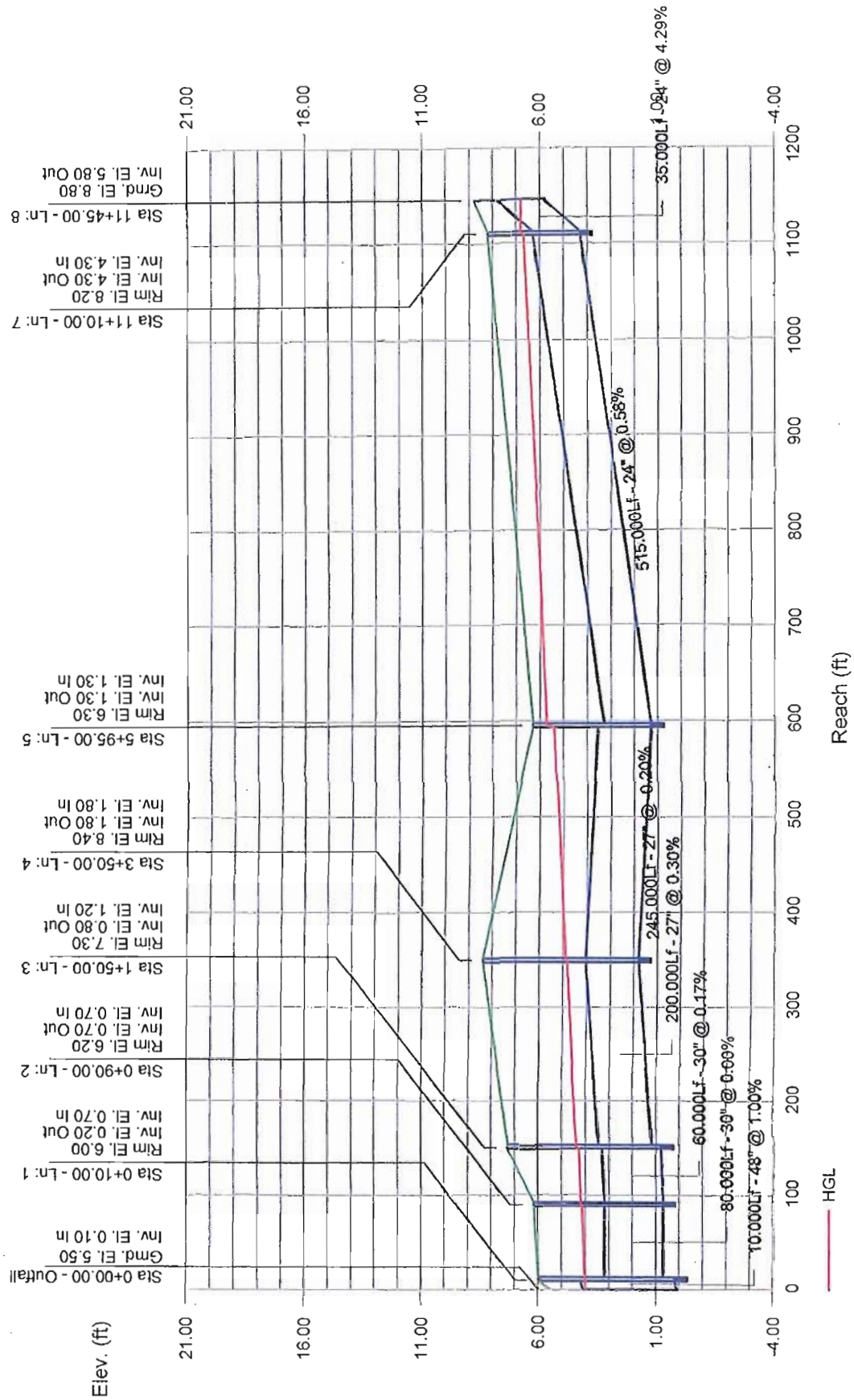
NOTES: Intensity = 9.01 / (Inlet time + 0.50) ^ 0.49; Return period = 100 Yrs. ; c = cir e = ellip b = box

# Storm Sewer Profile



# Storm Sewer Profile

Proj. file: Jacoby2.stm



# Storm Sewer Profile

Proj. file: Jacoby2.stm

