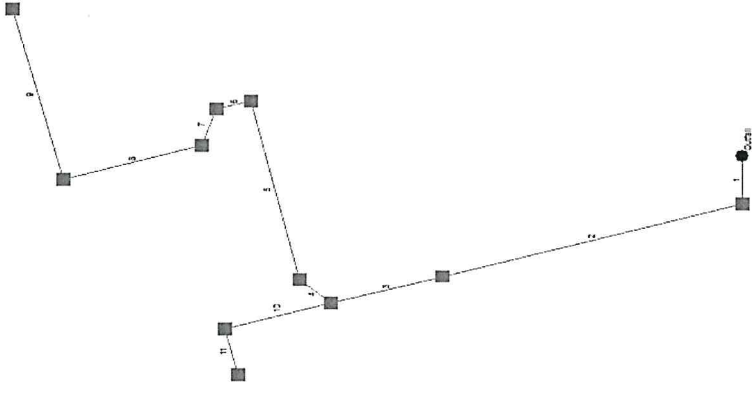


# Hydraflow Plan View



Project File: 22120 - Storm - Canera Drive.stm

No. Lines: 11

11-01-2022

# 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)	
1	End	40.0	-180.0	Curb	1.16	0.00	0.00	0.0	311.10	1.00	311.50	36	Cir	0.013	1.46	321.30
2	1	235.0	75.0	Curb	1.05	0.00	0.00	0.0	311.50	3.85	320.55	24	Cir	0.013	0.50	330.75
3	2	87.0	0.0	Curb	0.72	0.00	0.00	0.0	320.55	4.31	324.30	24	Cir	0.013	1.27	334.45
4	3	31.0	55.0	Curb	0.72	0.00	0.00	0.0	324.30	5.32	325.95	24	Cir	0.013	0.96	336.10
5	4	152.0	36.0	Curb	0.95	0.00	0.00	0.0	325.95	5.69	334.60	24	Cir	0.013	1.50	338.50
6	5	27.0	-90.0	Curb	6.60	0.00	0.00	0.0	334.60	1.11	334.90	24	Cir	0.013	1.29	338.50
7	6	32.0	-56.2	Curb	1.18	0.00	0.00	0.0	335.40	1.00	335.72	18	Cir	0.013	1.27	338.40
8	7	109.0	55.0	Curb	3.66	0.00	0.00	0.0	335.72	3.90	339.97	18	Cir	0.013	1.50	346.00
9	8	146.0	90.0	Curb	3.53	0.00	0.00	0.0	342.75	1.00	344.21	18	Cir	0.013	1.00	347.10
10	3	83.0	0.0	Curb	6.36	0.00	0.00	0.0	324.80	4.20	328.29	18	Cir	0.013	1.50	337.90
11	10	39.0	-90.0	Curb	1.13	0.00	0.00	0.0	334.20	1.03	334.60	18	Cir	0.013	1.00	337.90

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Number of lines: 11

Date: 11-01-2022

# 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		27.06	36 c	40.0	311.10	311.50	1.000	312.76	313.16	1.03	313.16	End
2		25.90	24 c	235.0	311.50	320.55	3.851	313.16	322.34	n/a	322.34 j	1
3		24.85	24 c	87.0	320.55	324.30	4.310	322.55	326.06	n/a	326.06 j	2
4		16.64	24 c	31.0	324.30	325.95	5.323	326.74	327.39	n/a	327.39 j	3
5		15.92	24 c	152.0	325.95	334.60	5.691	327.72	336.01	n/a	336.01 j	4
6		14.97	24 c	27.0	334.60	334.90	1.111	336.36	336.28	n/a	337.12 j	5
7		8.37	18 c	32.0	335.40	335.72	1.000	337.43*	337.63*	0.44	338.08	6
8		7.19	18 c	109.0	335.72	339.97	3.899	338.17	340.99	n/a	340.99 j	7
9		3.53	18 c	146.0	342.75	344.21	1.000	343.35	344.93	n/a	344.93 j	8
10		7.49	18 c	83.0	324.80	328.29	4.205	326.90	329.33	n/a	329.33 j	3
11		1.13	18 c	39.0	334.20	334.60	1.026	334.53	335.01	n/a	335.01 j	10

Project File: 22120 - Storm - Canera Drive.stm

Number of lines: 11

Run Date: 11-01-2022

NOTES: c = cir; e = ellip; b = box; Return period = 100 Yrs. ; \*Surcharged (HGL above crown). ; j - Line contains hyd. jump.

# 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	36	27.06	311.10	312.76	1.66	4.01	6.75	0.71	313.47	0.472	40.0	311.50	313.16	1.66**	4.01	6.75	0.71	313.87	0.472	0.472	n/a	1.46	1.03
2	24	25.90	311.50	313.16	1.66	2.96	9.30	1.35	314.50	1.285	235	320.55	322.34 j	1.79**	2.96	8.75	1.19	323.53	1.162	1.224	n/a	0.50	n/a
3	24	24.85	320.55	322.55	2.00	2.93	7.91	0.97	323.53	1.208	87.0	324.30	326.06 j	1.76**	2.93	8.48	1.12	327.18	1.086	1.147	n/a	1.27	1.42
4	24	16.64	324.30	326.74	2.00	3.14	5.30	0.44	327.18	0.541	31.0	325.95	327.39 j	1.44**	2.43	6.85	0.73	328.12	0.712	0.627	n/a	0.96	n/a
5	24	15.92	325.95	327.72	1.77	2.95	5.40	0.45	328.18	0.442	152	334.60	336.01 j	1.41**	2.37	6.71	0.70	336.71	0.690	0.566	n/a	1.50	1.05
6	24	14.97	334.60	336.36	1.76	2.93	5.11	0.41	336.77	0.394	27.0	334.90	336.28 j	1.38**	2.30	6.50	0.66	336.93	0.655	0.525	0.142	1.29	0.85
7	18	8.37	335.40	337.43	1.50	1.77	4.74	0.35	337.78	0.636	32.0	335.72	337.63	1.50	1.77	4.74	0.35	337.98	0.635	0.635	0.203	1.27	0.44
8	18	7.19	335.72	338.17	1.50	1.77	4.07	0.26	338.43	0.469	109	339.97	340.99 j	1.02**	1.28	5.60	0.49	341.48	0.716	0.592	n/a	1.50	0.73
9	18	3.53	342.75	343.35	0.60*	0.66	5.34	0.44	343.79	0.993	146	344.21	344.93 j	0.72**	0.83	4.23	0.28	345.21	0.527	0.760	n/a	1.00	0.28
10	18	7.49	324.80	326.90	1.50	1.77	4.24	0.28	327.18	0.509	83.0	328.29	329.33 j	1.04**	1.31	5.70	0.51	329.84	0.736	0.622	n/a	1.50	n/a
11	18	1.13	334.20	334.53	0.33*	0.29	3.88	0.23	334.77	1.001	39.0	334.60	335.01 j	0.41**	0.39	2.93	0.13	335.14	0.452	0.727	n/a	1.00	n/a

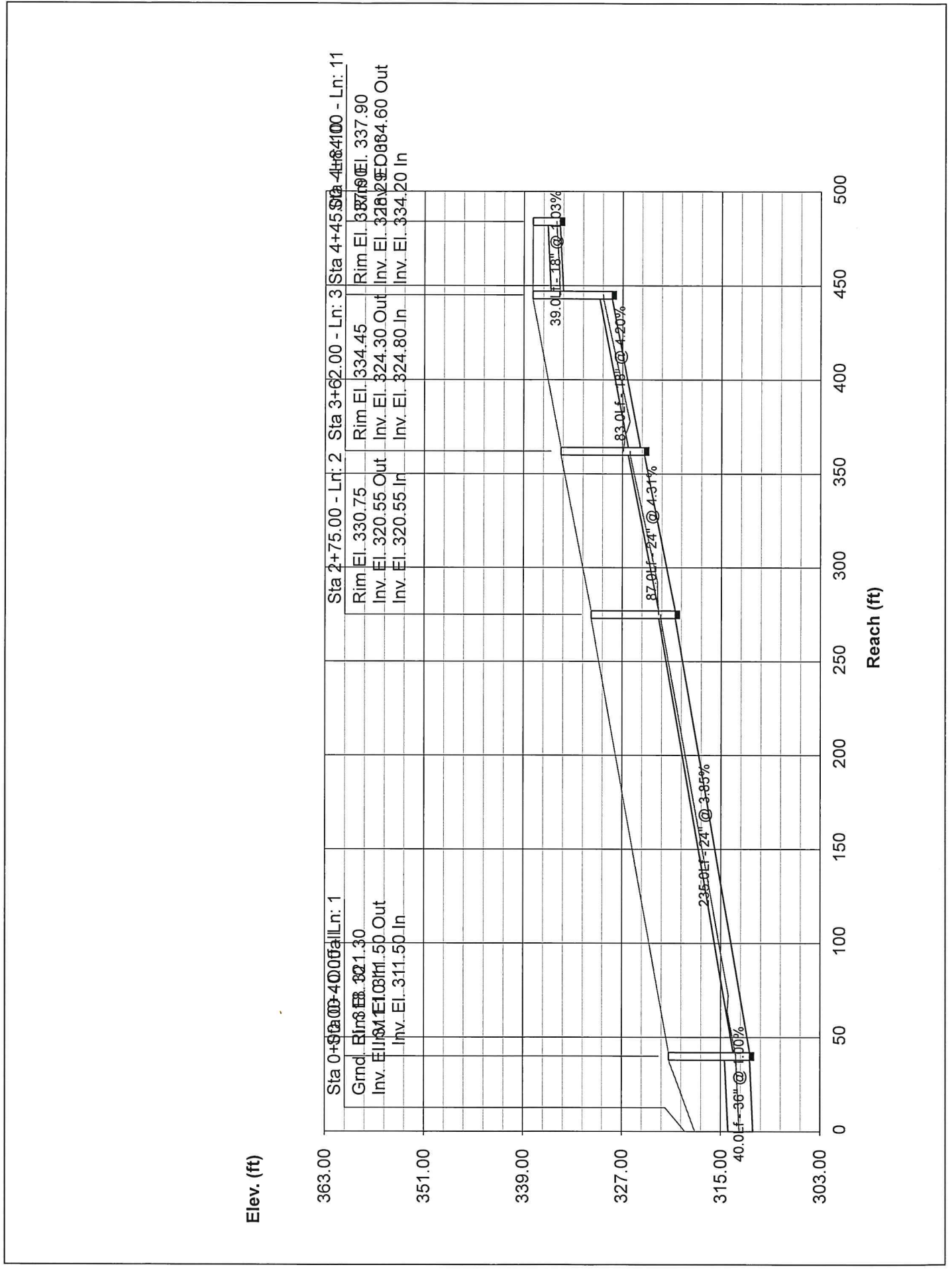
Project File: 22120 - Storm - Canera Drive.stm

Number of lines: 11

Run Date: 11-01-2022

Notes: \* Normal depth assumed.; \*\* Critical depth.; j-Line contains hyd. jump.

# Storm Sewer Profile



# Storm Sewer Profile

Elev. (ft)

