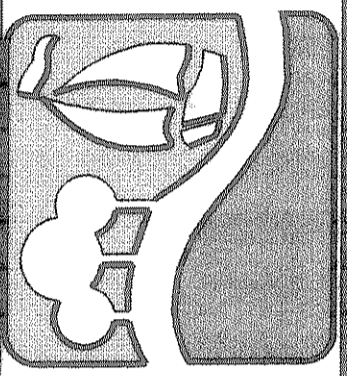


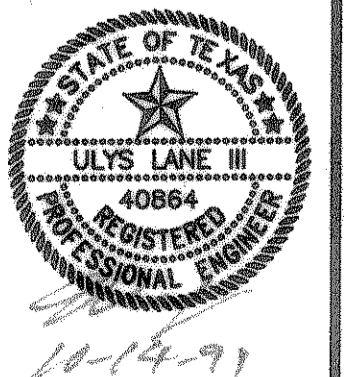
# STORM DRAIN DESIGN CALCULATIONS

REACH		INFLOW (INLETS & HEADWALLS)			TIME AT		DESIGN	RAINFALL	TOTAL	STORM	SLOPE OF		STRUCTURE	STRUCTURE	FLOW	TIME AT	H.G. AT	REMARKS
FROM	TO	LENGTH	SOURCE	'CA'	INLET	UPSTREAM	STORM	FLOW	STORM	VELOCITY	FRICTION	LOSS	LOSS AT	IN	DOWNSTREAM	UPSTREAM		
		(ft)			TIME	OF REACH	FREQUENCY	'Q'	SIZE	(ft/sec)	GRADIENT	'Kj'	OF REACH	DRAIN	OF REACH	OF REACH		
					(min)	(min)	(yr)	(cfs)			(ft/ft)		(ft)		(min)	(min)	(ft)	
SYSTEM "G"																		
INLET F-5A	15+00	41.87		2.78	10	2.78	100	27.2	27	6.8	0.0077	1.25	0.91	0.0	10.0	549.74		
15+00	9+81.51	518.49	-	-	-	2.78	100	27.2	27	6.8	0.0077	0.00	0.00	0.8	10.8	547.20		
INLET F-5B	9+81.51	15.08		1.52	10	1.52	100	14.9	27	3.7	0.0023	1.25	0.27	0.0	10.0	541.14		
9+81.51	7+32	249.51	-	-	-	4.30	100	41.6	27	10.5	0.0180	0.50	1.35	0.3	11.1	540.25	EXISTING 27" RCP	
INLET F-6	7+75	185.08		1.18	10	1.18	100	11.6	21	4.8	0.0054	1.25	0.45	0.3	10.3	539.95	EXISTING 21" RCP	
7+75	7+32	43.00	-	-	-	1.18	100	11.5	21	4.8	0.0053	0.00	0.00	0.1	10.4	534.46	EXISTING 21" RCP	
7+32	5+75	157.00	-	-	-	5.48	100	52.8	36	7.5	0.0063	0.50	0.02	0.3	11.4	534.24		
5+75	5+40	35.00	-	-	-	5.48	100	52.6	36	7.4	0.0062	0.00	0.00	0.1	11.5	533.23		
5+40	0+44.11	495.89	-	-	-	5.48	100	52.6	36	7.4	0.0062	0.00	0.00	0.1	11.5	533.23		
0+44.11	0+31.66	12.45	-	-	-	5.48	100	51.4	39	6.2	0.0039	0.43	0.26	0.0	12.8	530.97	EXISTING 36" RCP	
0+31.66	0+26.79	4.87	-	-	-	5.48	100	51.4	39	6.2	0.0039	0.00	0.00	0.0	12.8	530.66		
INLET F-7	0+26.79	5.54		2.47	10	2.47	100	24.2	24	7.7	0.0114	1.25	1.15	0.0	10.0	531.86	EXISTING 36" RCP	
0+26.79	0+19.19	7.60	-	-	-	7.95	100	74.6	39	9.0	0.0082	0.80	0.78	0.0	12.8	530.64		
SYSTEM "K"																		
INLET K-1	15+25	35.34		1.29	10	1.29	100	12.6	24	4.0	0.0031	1.25	0.31	0.1	10.1	552.93		
15+25	14+04.95	120.05	-	-	-	1.29	100	12.6	24	4.0	0.0031	0.00	0.00	0.5	10.6	552.50		
INLET K-2	14+04.95	23.09		1.29	10	1.29	100	12.6	21	5.2	0.0063	1.25	0.53	0.1	10.1	552.81		
14+04.95	8+60.64	544.31	-	-	-	2.58	100	25.1	30	5.1	0.0037	0.60	0.25	1.8	12.4	552.13		
INLET K-3	0+28	66.67		2.58	10	2.58	100	25.3	24	8.1	0.0125	1.25	1.26	0.1	10.1	556.36		
0+28	8+60.64	28.00	-	-	-	2.58	100	25.3	24	8.1	0.0125	0.00	0.00	0.0	10.1	552.00		
8+60.64	8+28.70	31.94	-	-	-	5.16	100	48.7	39	5.9	0.0035	0.60	0.30	0.1	12.5	549.86		
INLET K-4	8+28.70	23.09		1.39	10	1.39	100	13.6	24	4.3	0.0036	1.25	0.36	0.0	10.0	552.52		
8+28.70	8+12.54	16.16	-	-	-	6.55	100	61.8	45	5.6	0.0026	0.60	0.16	0.0	12.5	549.45		
INLET K-5	8+12.54	55.43		0.29	10	0.29	100	2.8	21	1.2	0.0003	1.25	0.03	0.1	10.1	551.94		
8+12.54	7+09.33	103.21	-	-	-	6.84	100	64.5	45	5.8	0.0028	0.60	0.23	0.3	12.8	549.25		
INLET K-6	12+44.78	220.71		1.55	10	1.55	100	15.2	21	6.3	0.0092	1.25	0.78	0.6	10.6	562.61		
12+44.78	12+25	19.78	-	-	-	1.24	100	12.2	21	5.1	0.0059	1.25	0.50	0.2	10.2	560.64		
12+25	9+75	250.00	-	-	-	2.79	100	27.1	27	6.8	0.0077	0.60	0.35	0.0	10.6	559.80		
9+75	8+00	175.00	-	-	-	2.79	100	27.1	27	6.8	0.0077	0.00	0.00	0.4	11.0	559.25		
8+00	7+09.33	98.89	-	-	-	2.79	100	26.9	27	6.8	0.0075	0.00	0.00	0.3	11.3	553.95		
7+09.33	6+45	64.33	-	-	-	9.63	100	26.8	27	6.7	0.0075	0.00	0.00	0.1	11.4	551.99		
								90.3	48	7.2	0.0040	0.60	0.49	0.1	12.9	548.73		

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**STORM DRAIN DESIGN  
 CALCULATIONS**



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