	RAIN CALCUL	ATIONS - 100	YR															
MH o	or INLET		Peak			HYDRAULIC	GRADIENT		HEA	AD LOSS AT	CHANGE I	N SECTION	I			Elev Diff TC/FG		
	ON POINT	DISTANCE	Flow in Pipe	PIPE	FRICTIONAL SLOPE	ELEVAT		V1 Flow	V2 Flow	<u>V2(^2)</u>	<u>V1(^2)</u>	Kj Coeff	<u>KjV1(^2)</u> 2g	Hj Head Loss	Elev	at De		REMARKS
UPSTRM	DNSTRM	Points	"Q"	SIZE	"Sf"	UPSTRM	DNSTRM	IN	OUT	2g	2g	Of Loss	2g	Upstream	Hyd	TC/FG	TC/FG	
STATION	STATION	(ft)	(cfs)	(in)	(ft / ft)	(ft MSL)	(ft MSL)	(fps)	(fps)	(ft)	(ft)	(const)	(ft)	(ft)	Grade (ft MSL)		- HGL DIFF.	
LINE A																		
954.00	954.00	0.00		18		558.41	558.41		0.00	0.00				0.00	558.41	564.76	6.35	
954.00	950.00	4.00	0.8	18	0.0001	558.41	558.41	0.00	0.42	0.00	0.00		0.00	0.00	558.41	564.76	6.35	END & PLUG
950.00	861.49	88.51	1.3	18	0.0002	558.41	558.39	0.42	0.75	0.01	0.00	0.30	0.01	0.00	558.41	564.73	6.32	MANHOLE W / 90° LATERAL
861.49	854.84	6.65	3.3	24	0.0002	558.39	558.39	0.75	1.06	0.02	0.01	0.43	0.01	0.00	558.39	563.69	5.30	60° WYE
854.84	845.49	9.35	5.1	24	0.0005	558.38	558.37	1.06	1.62	0.04	0.02	0.75	0.03	0.01	558.39	563.69	5.30	45° WYE
845.49	837.99	7.50	6.3	24	0.0008	558.35	558.35	1.62	2.01	0.06	0.04	0.43	0.05	0.02	558.37	563.84	5.47	60° WYE
837.99			8.9		0.0016	558.32	557.96	2.01	2.84		0.04		0.10				5.49	60° WYE
	604.97	233.02		24						0.13		0.43		0.03	558.35	563.84		
604.97	598.32	6.65	10.6	27	0.0012	557.90	557.90	2.84	2.66	0.11	0.13	0.43	0.06	0.05	557.96	563.69	5.73	60° WYE
598.32	588.97	9.35	12.3	27	0.0016	557.81	557.80	2.66	3.08	0.15	0.11	0.75	0.07	0.08	557.90	563.69	5.79	45° WYE
588.97	581.99	6.98	13.5	27	0.0019	557.74	557.72	3.08	3.40	0.18	0.15	0.43	0.12	0.06	557.80	563.84	6.04	60° WYE
581.99	475.07	106.92	16.5	27	0.0028	557.65	557.34	3.40	4.15	0.27	0.18	0.43	0.19	0.08	557.72	563.84	6.12	60° WYE
475.07	279.50	195.57	18.9	30	0.0021	557.26	556.85	4.15	3.84	0.23	0.27	0.30	0.15	0.08	557.34	564.55	7.21	MANHOLE W / 90° LATERAL
279.50	180.00	99.50	21.2	30	0.0027	556.75	556.48	3.84	4.31	0.29	0.23	0.43	0.19	0.10	556.85	563.38	6.53	60° WYE
180.00	86.51	93.49	21.2	30	0.0027	556.36	556.11	4.31	4.31	0.29	0.29	0.44	0.16	0.13	556.48	561.36	4.88	MANHOLE W / 60° LATERAL
86.51	57.73	28.78	26.4	30	0.0042	555.95	555.83	4.31	5.39	0.45	0.29	0.56	0.29	0.16	556.11	558.21	2.10	60° BEND
57.73	42.73	15.00	26.4	30	0.0042	555.63	555.57	5.39	5.39	0.45	0.45	0.43	0.26	0.19	555.83	557.64	1.81	60° WYE
42.73	0.00	42.73	29.2	30	0.0051	555.38	555.16	5.39	5.95	0.55	0.45	0.43	0.36	0.19	555.38	557.40	2.02	60° WYE
LINE A1	<u> </u>																	
15.47	15.47	0.00		18		555.63	555.63		0.00	0.00				0.00	555.63	557.27	1.64	
15.47	0.00	15.47	2.8	18	0.0007	555.58	555.57	0.00	1.56	0.04	0.00	1.25	0.04	0.05	555.58	557.70	2.12	CURB INLET
LINE A2																		
43.68	43.68	0.00		18		555.93	555.93		0.00	0.00				0.00	555.93	557.27	1.34	
43.68	26.31	17.37	2.8	18	0.0007	555.88	555.87	0.00	1.61	0.04	0.00	1.25	0.04	0.05	555.88	557.65	1.77	CURB INLET
26.31	0.00	26.31	2.8	18	0.0007	555.85	555.83	1.61	1.61	0.04	0.04	0.43	0.02	0.02	555.85	557.65	1.80	60° WYE
LINE A2.1																		
38.62	38.62	0.00		18		555.88	555.88		0.00	0.00				0.00	555.88	558.20	2.32	
38.62	0.00	38.62	2.4	18	0.0005	555.88	555.86	0.00	1.37	0.03	0.00		0.03	0.00	555.88	557.27	1.39	END & PLUG
LINE B	0.00	30.02	2.7	10	0.0000	300.00	300.00	0.00	1.07	0.00	0.00		0.00	0.00	000.00	001.21	1.00	END WILES
712.47	712.47	0.00		40		551.35	551.35		0.00	0.00				0.00	551.35	552 10	1.75	
		0.00				551.55	551.55		0.00	0.00				0.00	551.55	553.10	1 /5	
712.47	696.47	40.00		18	2 2225	554.05	554.05	0.00	4.70	0.05				0.00	554.05	550.40		END & BLUG
696.47	+	16.00	8.4	18	0.0065	551.35	551.25	0.00	4.78	0.35	0.00		0.35	0.00	551.35	553.10	1.75	END & PLUG
	589.30	107.17	8.4		0.0065	551.00	550.31	4.78	4.78	0.35	0.35	0.70	0.11	0.25	551.25	553.00	1.75	MANHOLE 90° BEND
589.30	589.30 548.79			18								0.70					1.75	
589.30		107.17	8.4	18	0.0065	551.00	550.31	4.78	4.78	0.35	0.35		0.11	0.25	551.25	553.00	1.75	MANHOLE 90° BEND
	548.79	107.17	8.4	18 18 18	0.0065	551.00 550.24	550.31 549.98	4.78	4.78	0.35	0.35	0.20	0.11	0.25	551.25 550.31	553.00 551.60	1.75 1.75 1.29	MANHOLE 90° BEND 23° BEND
548.79	548.79 542.79	107.17 40.51 6.00	8.4 8.4 11.4	18 18 18 24	0.0065 0.0065 0.0026	551.00 550.24 549.83	550.31 549.98 549.81	4.78 4.78 4.78	4.78 4.78 3.64	0.35 0.35 0.21	0.35 0.35 0.35	0.20	0.11 0.28 0.05	0.25 0.07 0.15	551.25 550.31 549.98	553.00 551.60 551.00	1.75 1.75 1.29	MANHOLE 90° BEND 23° BEND 60° WYE
548.79	548.79 542.79 498.11	107.17 40.51 6.00 44.68	8.4 8.4 11.4	18 18 18 24 24	0.0065 0.0065 0.0026	551.00 550.24 549.83 549.77	550.31 549.98 549.81 549.66	4.78 4.78 4.78 3.64	4.78 4.78 3.64 3.64	0.35 0.35 0.21	0.35 0.35 0.35 0.21	0.20	0.11 0.28 0.05 0.16	0.25 0.07 0.15	551.25 550.31 549.98 549.81	553.00 551.60 551.00 551.00	1.75 1.75 1.29 1.02 1.19	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND
548.79 542.79 498.11	548.79 542.79 498.11 491.22	107.17 40.51 6.00 44.68 6.89	8.4 8.4 11.4 11.4	18 18 18 24 24 24	0.0065 0.0065 0.0026 0.0026	551.00 550.24 549.83 549.77 549.57	550.31 549.98 549.81 549.66 549.54	4.78 4.78 4.78 3.64 3.64	4.78 4.78 3.64 3.64 4.33	0.35 0.35 0.21 0.21	0.35 0.35 0.35 0.21	0.20 0.43 0.20 0.43	0.11 0.28 0.05 0.16 0.20	0.25 0.07 0.15 0.04 0.09	551.25 550.31 549.98 549.81 549.66	553.00 551.60 551.00 551.00 550.65	1.75 1.75 1.29 1.02 1.19	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE
548.79 542.79 498.11 491.22	548.79 542.79 498.11 491.22 461.65	107.17 40.51 6.00 44.68 6.89 29.57	8.4 8.4 11.4 11.4 13.6	18 18 18 24 24 24 24	0.0065 0.0065 0.0026 0.0026 0.0036	551.00 550.24 549.83 549.77 549.57	550.31 549.98 549.81 549.66 549.54 549.26	4.78 4.78 4.78 3.64 3.64 4.33	4.78 4.78 3.64 3.64 4.33 5.84	0.35 0.35 0.21 0.21 0.29 0.53	0.35 0.35 0.35 0.21 0.21	0.20 0.43 0.20 0.43	0.11 0.28 0.05 0.16 0.20	0.25 0.07 0.15 0.04 0.09 0.09	551.25 550.31 549.98 549.81 549.66 549.54	553.00 551.60 551.00 551.00 550.65 550.60	1.75 1.75 1.29 1.02 1.19 0.99	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL
548.79 542.79 498.11 491.22 461.65	548.79 542.79 498.11 491.22 461.65 350.00	107.17 40.51 6.00 44.68 6.89 29.57	8.4 8.4 11.4 11.4 13.6 18.4 20.3	18 18 18 24 24 24 24 24	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066	551.00 550.24 549.83 549.77 549.57 549.45 548.86	550.31 549.98 549.81 549.66 549.54 549.26 547.97	4.78 4.78 4.78 3.64 3.64 4.33 5.84	4.78 4.78 3.64 3.64 4.33 5.84 6.45	0.35 0.35 0.21 0.21 0.29 0.53 0.65	0.35 0.35 0.35 0.21 0.21 0.29	0.20 0.43 0.20 0.43 0.30	0.11 0.28 0.05 0.16 0.20 0.44 0.25	0.25 0.07 0.15 0.04 0.09 0.09	551.25 550.31 549.98 549.81 549.66 549.54	553.00 551.60 551.00 551.00 550.65 550.60	1.75 1.75 1.29 1.02 1.19 0.99 1.06	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE
548.79 542.79 498.11 491.22 461.65 350.00	548.79 542.79 498.11 491.22 461.65 350.00 315.13	107.17 40.51 6.00 44.68 6.89 29.57 111.65	8.4 8.4 11.4 11.4 13.6 18.4 20.3	18 18 18 24 24 24 24 24 24	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080	551.00 550.24 549.83 549.77 549.57 549.45 548.86	550.31 549.98 549.81 549.66 549.54 549.26 547.97	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45	4.78 4.78 3.64 3.64 4.33 5.84 6.45	0.35 0.35 0.21 0.21 0.29 0.53 0.65	0.35 0.35 0.35 0.21 0.21 0.29 0.53	0.20 0.43 0.20 0.43 0.30 0.75	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31	0.25 0.07 0.15 0.04 0.09 0.40 0.48	551.25 550.31 549.98 549.81 549.66 549.54 549.26	553.00 551.60 551.00 551.00 550.65 550.60 550.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE
548.79 542.79 498.11 491.22 461.65 350.00	548.79 542.79 498.11 491.22 461.65 350.00 315.13	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5	18 18 18 24 24 24 24 24 27	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65	0.20 0.43 0.20 0.43 0.30 0.75 0.75	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31	0.25 0.07 0.15 0.04 0.09 0.40 0.48	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97	553.00 551.60 551.00 551.00 550.65 550.60 550.00 548.50	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND
548.79 542.79 498.11 491.22 461.65 350.00 315.13	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5	18 18 18 24 24 24 24 24 27 27	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5	18 18 18 24 24 24 24 24 27 27 27	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.67	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5	18 18 18 24 24 24 24 24 27 27 27	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.67	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5	18 18 18 24 24 24 24 24 27 27 27 27	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38	4.78 4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.67	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.90	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13	553.00 551.60 551.00 551.00 550.65 550.60 550.00 548.50 548.35 547.90 547.10 546.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9	18 18 18 24 24 24 24 24 27 27 27 27 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68	4.78 4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.90	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.50 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90 547.10 546.00	1.75 1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9	18 18 18 24 24 24 24 24 27 27 27 27 28 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68	4.78 4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.50 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90 547.10 546.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 22.5 23.9	18 18 18 18 24 24 24 24 24 27 27 27 27 28 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0080 0.0099 0.0053 0.0053 0.0112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68 549.29 549.29	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90 547.10 546.00 550.45 550.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN CURB INLET
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9	18 18 18 24 24 24 24 24 27 27 27 27 28 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68	4.78 4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62	0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13	553.00 551.60 551.00 551.00 550.65 550.60 548.50 548.35 547.90 547.10 546.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97 23.97	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 22.5 23.9	18 18 18 24 24 24 24 24 24 27 27 27 27 18 18 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0080 0.0099 0.0053 0.0053 0.0112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13 549.29 549.27	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68 549.29 549.29 549.26	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09 0.00 2.69	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00 0.01	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25 0.00 0.00	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13 549.29 549.27	553.00 551.60 551.00 551.00 551.00 550.65 550.60 550.00 548.50 547.90 547.10 546.00 550.45 550.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN CURB INLET
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97 LINE B3	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00 23.97 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9 1.9 4.8	18 18 18 18 24 24 24 24 24 24 27 27 27 27 18 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13 549.29 549.27	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.74 545.38 544.68 549.29 549.26	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09 0.00 2.69	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00 0.01	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20 1.25	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65 0.02	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25 0.00 0.00 0.00	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13 549.29 549.29 549.59	553.00 551.60 551.00 551.00 550.65 550.60 550.00 548.50 547.90 547.10 546.00 550.45 550.70	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE MANHOLE 90° BEND 32° BEND 22° BEND INLET ON MAIN CURB INLET END & PLUG
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97 23.97 LINE B3 13.86	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 22.5 23.9	18 18 18 24 24 24 24 24 24 27 27 27 27 18 18 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0080 0.0099 0.0053 0.0053 0.0112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13 549.29 549.27	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.38 544.68 549.29 549.29 549.26	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09 0.00 2.69	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00 0.01	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65 0.02	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25 0.00 0.00	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13 549.29 549.27	553.00 551.60 551.00 551.00 551.00 550.65 550.60 550.00 548.50 547.90 547.10 546.00 550.45 550.00	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE 45° WYE MANHOLE 90° BEND 32° BEND 1NLET ON MAIN CURB INLET
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97 LINE B3	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00 23.97 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9 1.9 4.8	18 18 18 18 24 24 24 24 24 24 27 27 27 27 18 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13 549.29 549.27	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.74 545.38 544.68 549.29 549.26	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09 0.00 2.69	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00 0.01	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20 1.25	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65 0.02	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25 0.00 0.00 0.00	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13 549.29 549.29 549.59	553.00 551.60 551.00 551.00 550.65 550.60 550.00 548.50 547.90 547.10 546.00 550.45 550.70	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE MANHOLE 90° BEND 32° BEND 22° BEND INLET ON MAIN CURB INLET END & PLUG
548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 LINE B1 23.27 23.27 LINE B2 23.97 23.97 LINE B3 13.86	548.79 542.79 498.11 491.22 461.65 350.00 315.13 283.12 189.51 140.00 100.00 23.27 0.00 23.97 0.00	107.17 40.51 6.00 44.68 6.89 29.57 111.65 34.87 32.01 93.61 49.51 40.00 0.00 23.27	8.4 8.4 11.4 11.4 13.6 18.4 20.3 22.5 22.5 22.5 23.9 1.9 4.8	18 18 18 18 24 24 24 24 24 24 27 27 27 27 18 18 18	0.0065 0.0065 0.0026 0.0026 0.0036 0.0066 0.0080 0.0099 0.0053 0.0053 0.0053 0.00112	551.00 550.24 549.83 549.77 549.57 549.45 548.86 547.48 546.58 546.23 545.64 545.13 549.29 549.27	550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.74 545.74 545.38 544.68 549.29 549.26	4.78 4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66	4.78 4.78 3.64 3.64 4.33 5.84 6.45 7.17 5.67 5.66 7.62 0.00 1.09 0.00 2.69	0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.50 0.00 0.00 0.01	0.35 0.35 0.35 0.35 0.21 0.21 0.29 0.53 0.65 0.80 0.50 0.50 0.00	0.20 0.43 0.20 0.43 0.30 0.75 0.75 0.70 0.35 0.20 1.25	0.11 0.28 0.05 0.16 0.20 0.44 0.25 0.31 -0.06 0.32 0.40 0.65 0.02	0.25 0.07 0.15 0.04 0.09 0.40 0.48 0.56 0.17 0.10 0.25 0.00 0.00 0.00	551.25 550.31 549.98 549.81 549.66 549.54 549.26 547.97 547.14 546.41 545.64 545.13 549.29 549.29 549.59	553.00 551.60 551.00 551.00 550.65 550.60 550.00 548.50 547.90 547.10 546.00 550.45 550.70	1.75 1.75 1.29 1.02 1.19 0.99 1.06 0.74 0.53 1.21 1.49 1.46 0.87 1.16 0.73	MANHOLE 90° BEND 23° BEND 60° WYE 23° BEND 60° WYE MANHOLE W / 90° LATERAL 45° WYE MANHOLE 90° BEND 32° BEND 22° BEND INLET ON MAIN CURB INLET END & PLUG

DRAINAGE CALCS						ROADWAY SECTION INLE								
INLET		100 YR AREA PEAK		. 4.37.71									COMMENTS	
				CARRY	TOTAL	CROSS	LONG.	MAX	SPREAD	LENGTH	INLET	CARRY		
NO.	STATION	TYPE	NO.	FLOW	OVER	FLOW	SLOPE	SLOPE	DEPTH	OF FLOW	PROV.	FLOW	OVER	
	L YE T			(CFS)	(CFS)	(CFS)	(FT/FT)	(FT/FT)	(FT)	(FT)	(FT)	(CFS)	(CFS)	
1	0+76.15	CO-D	A16	2.84	0.00	2.84	0.0208	0.0250	0.19	9.1	10.0	1.57	1.27	WESTGATE LANE
2	0+76.30	CO-D	A17	2.75	0.00	2.75	0.0208	0.0250	0.19	9.0	10.0	1.54	1.21	WESTGATE LANE
3	6+33.48	CO-S	A7	1.67	0.00	1.67	0.0208	0.0060	0.19	9.2	6.0	1.67	0.00	WESTGATE LANE
4	6+33.48	CO-S	A8	1.67	0.00	1.67	0.0208	0.0060	0.19	9.2	6.0	1.67	0.00	WESTGATE LANE
5	8+89.99	CO-S	A3	2.00	0.00	2.00	0.0208	0.0060	0.22	10.4	6.0	2.00	0.00	WESTGATE LANE
6	8+89.99	CO-S	A4	1.75	0.00	1.75	0.0208	0.0060	0.20	9.5	6.0	1.75	0.00	WESTGATE LANE
7	1+40.00	D-S	E13	1.42	0.00	1.42	0.2500	0.0150	0.59	7.7	12.0	1.42	0.00	VP SIGN / WATER FEATURE
7 TMP	1+40.00	D-S	COM	3.27	0.00	3.27	0.2500	0.0150	0.67	13.5	12.0	3.27	0.00	TEMP E6, E11-13, F3-F4 C=0.30
8	0+23.27	CO-S	E10	1.92	0.00	1.92	0.0208	0.0174	0.21	10.1	6.0	1.92	0.00	LINE B1
9	0+13.86	CO-S	E7	2.17	0.00	2.17	0.0208	0.0174	0.23	10.9	6.0	2.17	0.00	LINE B3

AREA NO.	ACRES	RUNOFF COEFF.	CA	Тс	l10	Q10	1100	Q100	COLLECTION POINT
۸1	0.09	0.90	0.08	10.0	6.5	0.53	9.3	0.75	FUTURE STORM DRAIN
A1 A2	0.09	0.90	0.06	10.0	6.5	0.55	9.3	0.73	STORM DRAIN
A3	0.24	0.90	0.22	10.0	6.5	1.41	9.3	2.00	CURB INLET
A4	0.24	0.90	0.19	10.0	6.5	1.24	9.3	1.75	CURB INLET
A5	0.21	0.90	0.19	10.0	6.5	0.88	9.3	1.75	FUTURE STORM DRAIN
A6	0.31	0.90	0.28	10.0	6.5	1.82	9.3	2.59	STORM DRAIN
A7	0.20	0.90	0.18	10.0	6.5	1.18	9.3	1.67	CURB INLET
A8	0.20	0.90	0.18	10.0	6.5	1.18	9.3	1.67	CURB INLET
A9	0.15	0.90	0.14	10.0	6.5	0.88	9.3	1.25	FUTURE STORM DRAIN
A10	0.36	0.90	0.32	10.0	6.5	2.12	9.3	3.00	STORM DRAIN
A11	0.09	0.90	0.08	10.0	6.5	0.53	9.3	0.75	FUTURE STORM DRAIN
A12	0.10	0.90	0.09	10.0	6.5	0.59	9.3	0.83	FUTURE CURB INLET
A13	0.09	0.90	0.08	10.0	6.5	0.52	9.3	0.74	FUTURE CURB INLET
A14	0.28	0.90	0.25	10.0	6.5	1.65	9.3	2.34	FUTURE STORM DRAIN
A15	0.29	0.90	0.26	10.0	6.5	1.71	9.3	2.42	FUTURE STORM DRAIN
A16	0.34	0.90	0.31	10.0	6.5	2.00	9.3	2.84	CURB INLET
A17	0.33	0.90	0.30	10.0	6.5	1.94	9.3	2.75	CURB INLET
,,,,	3.50	0.00	0.00	10.0	0.0	20.60	0.0	29.19	O O THE T
B1	0.20	0.90	0.18	10.0	6.5	1.18	9.3	1.67	AREA DRAINS
B2	0.11	0.90	0.10	10.0	6.5	0.65	9.3	0.92	STORM DRAIN
B3	0.37	0.90	0.33	10.0	6.5	2.18	9.3	3.09	STORM DRAIN
B4	0.48	0.90	0.43	10.0	6.5	2.83	9.3	4.00	FUTURE STORM DRAIN
B5	0.11	0.90	0.10	10.0	6.5	0.65	9.3	0.92	STORM DRAIN
B6	0.11	0.90	0.10	10.0	6.5	1.29	9.3	1.84	AREA DRAINS
B7	0.22	0.90	0.23	10.0	6.5		9.3	2.09	STORM DRAIN
				_		1.47			STORM DRAIN
B8	0.64	0.90	0.58	10.0	6.5	3.77	9.3	5.34	
B9	0.02 2.40	0.90	0.02	10.0	6.5	0.12 14.13	9.3	0.17 20.02	AREA DRAIN
C1	0.05	0.90	0.05	10.0	6.5	0.29	9.3	0.42	STORM DRAIN
C2	0.18	0.90	0.16	10.0	6.5	1.06	9.3	1.50	STORM DRAIN
C3	0.20	0.90	0.18	10.0	6.5	1.18	9.3	1.67	STORM DRAIN
C4	0.19	0.90	0.17	10.0	6.5	1.12	9.3	1.59	STORM DRAIN
C5	0.05	0.90	0.05	10.0	6.5	0.29	9.3	0.42	STORM DRAIN
C6	0.03	0.90	0.03	10.0	6.5	1.18	9.3	1.67	STORM DRAIN
00	0.20	0.90	0.10	10.0	0,5	5.12	9.5	7.26	STORWIDIVAIN
D1	0.24	0.90	0.22	10.0	6.5	1.41	9.3	2.00	FUTURE STORM DRAIN
D2	0.25	0.90	0.23	10.0	6.5	1.47	9.3	2.09	AREA DRAINS
D3	0.30	0.90	0.27	10.0	6.5	1.77	9.3	2.50	FUTURE STORM DRAIN
D4	0.27	0.90	0.24	10.0	6.5	1.59	9.3	2.25	CURB INLET
D5	0.10	0.90	0.09	10.0	6.5	0.59	9.3	0.83	CURB INLET
			0.03		6.5		9.3		AREA DRAINS
D6	0.12	0.90		10.0		0.71		1.00	
D7	0.06	0.90	0.05	10.0	6.5	0.35	9.3	0.50	AREA DRAINS
D8	0.19	0.90	0.17	10.0	6.5	1.12	9.3	1.59	FUTURE STORM DRAIN
D9	0.22	0.90	0.20	10.0	6.5	1.29	9.3	1.84	FUTURE STORM DRAIN
D10	0.26 2.01	0.90	0.23	10.0	6.5	1.53 11.83	9.3	2.17 16.77	STORM DRAIN
				100					
E1	0.11	0.90	0.10	10.0	6.5	0.65	9.3	0.92	FUTURE STORM DRAIN
E2	0.10	0.90	0.09	10.0	6.5	0.59	9.3	0.83	FUTURE STORM DRAIN
E3	0.63	0.90	0.57	10.0	6.5	3.71	9.3	5.26	FUTURE STORM DRAIN
E4	0.11	0.90	0.10	10.0	6.5	0.65	9.3	0.92	FUTURE STORM DRAIN
E5	0.11	0.90	0.10	10.0	6.5	0.65	9.3	0.92	FUTURE STORM DRAIN
E6	0.31	0.90	0.28	10.0	6.5	1.82	9.3	2.59	FUTURE STORM DRAIN
E7	0.26	0.90	0.23	10.0	6.5	1.53	9.3	2.17	CURB INLET
E8	0.29	0.90	0.26	10.0	6.5	1.71	9.3	2.42	FUTURE STORM DRAIN
E9	0.28	0.90	0.25	10.0	6.5	1.65	9.3	2.34	FUTURE STORM DRAIN
E10	0.23	0.90	0.21	10.0	6.5	1.35	9.3	1.92	CURB INLET
E11	0.14	0.90	0.13	10.0	6.5	0.82	9.3	1.17	FUTURE STORM DRAIN
E12	0.13	0.90	0.12	10.0	6.5	0.77	9.3	1.08	FUTURE STORM DRAIN
E13	0.17	0.90	0.15	10.0	6.5	1.00	9.3	1.42	STORM DRAIN
	2.87	1	1		-15	16.89	- 14	23.94	
F1	0.05	0.90	0.05	10.0	6.5	0.29	9.3	0.42	FUTURE STORM DRAIN
F2	0.56	0.90	0.50	10.0	6.5	3.30	9.3	4.67	FUTURE STORM DRAIN
F3	0.36	0.90	0.32	10.0	6.5	2.12	9.3	3.00	FUTURE STORM DRAIN
F4	0.07	0.90	0.06	10.0	6.5	0.41	9.3	0.58	FUTURE STORM DRAIN
F5	0.07	0.90	0.07	10.0	6.5	0.41	9.3	0.56	FUTURE STORM DRAIN
F6	0.08	0.90	0.07	10.0	6.5	1.35	9.3	1.92	FUTURE STORM DRAIN
1-0	1.35	0.90	U.Z I	10.0	0.0	7.95	8.3	11.26	I OTONE STONWIDRAIN
G1	0.37	0.90	0.33	10.0	6.5	2.18	9.3	3.09	MARSH LANE
51	0.37	0.00	0.00	10.0	5.5	2.18	0.0	3.09	and the state of the
H1	0.20	0.90	0.18	10.0	6.5	1.18	9.3	1.67	VITRUVIAN WAY
H2	0.38	0.90	0.34	10.0	6.5	2.24	9.3	3.17	VITRUVIAN WAY
_	0.58					3.41	3.1	4.84	
	13.95					82.10		116.38	



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NO.	REVISION	BY	DATE

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PAVING, DRAINAGE & UTILITY IMPROVEMENTS

VITRUVIAN PARK PUBLIC INFRASTRUCTURE BLOCK 200

TOWN OF ADDISON, TEXAS

DRAINAGE CALCULATIONS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 17, 2019	AS NOTED		20