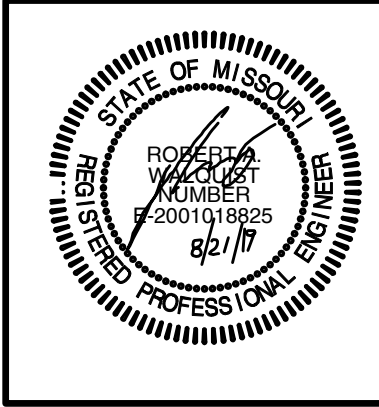




I-470 LOT 13A
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

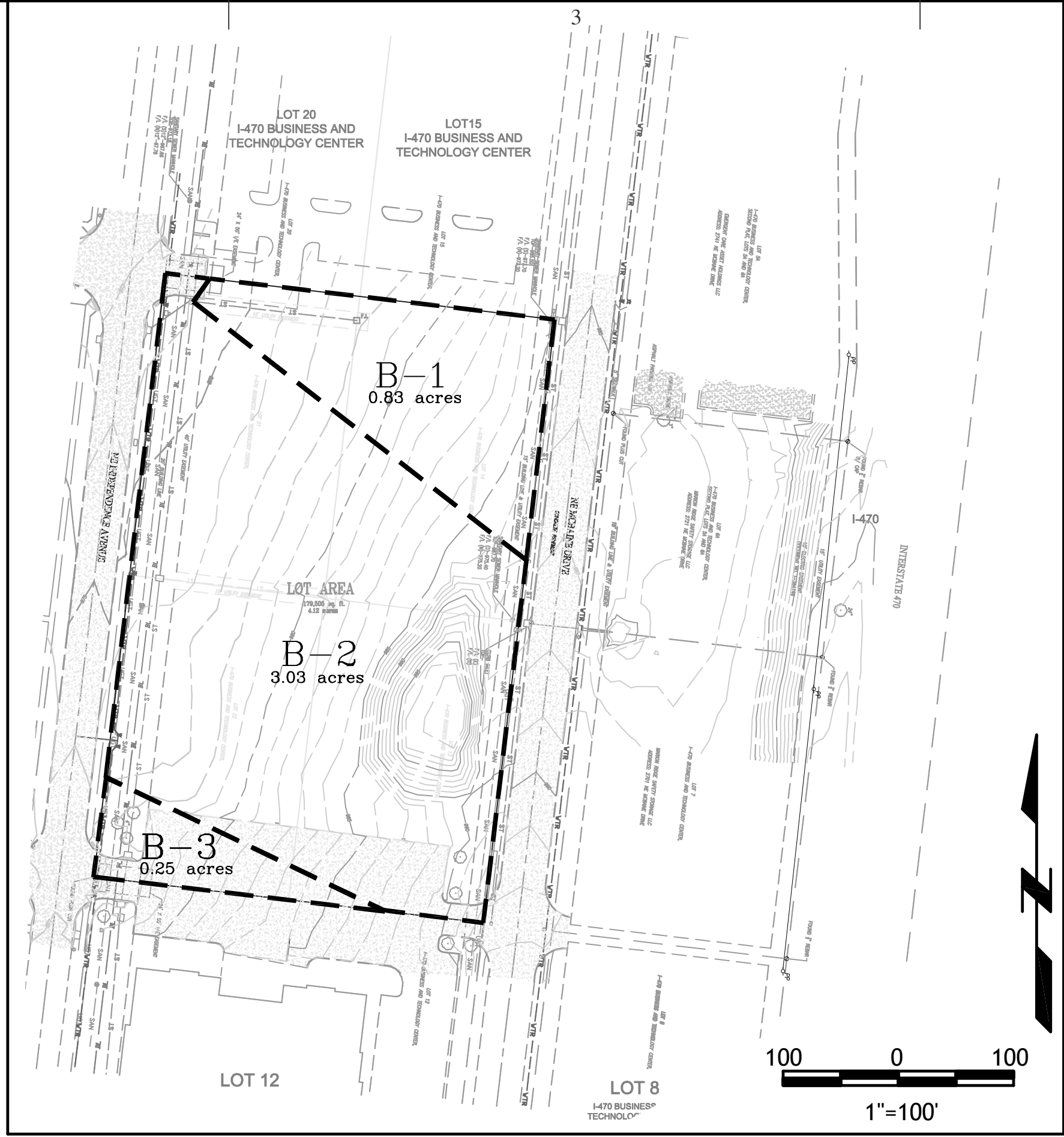
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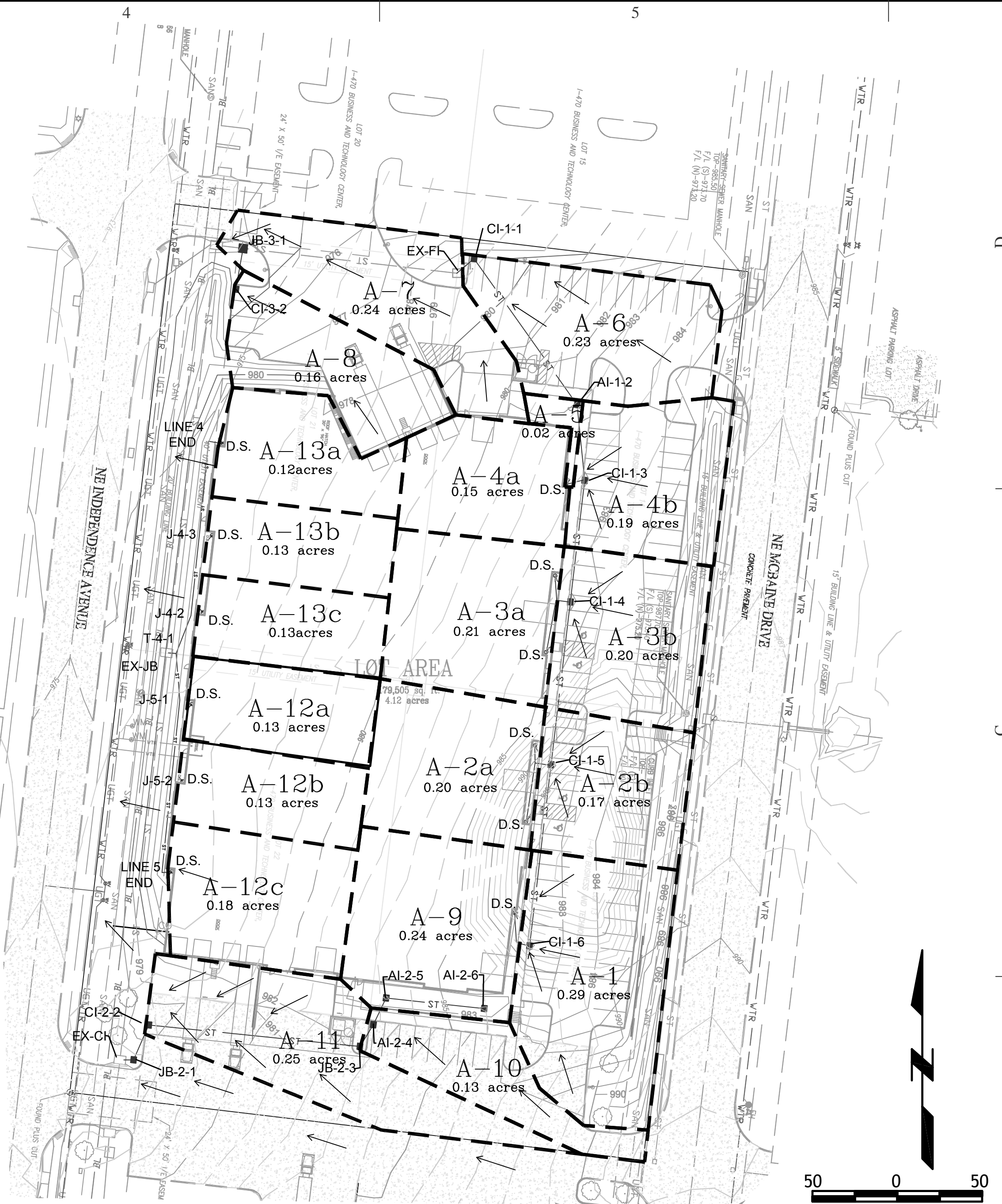
REVISIONS	
7-24-19	
8-7-19	
8-21-19	

SHEET NO.
C400

JOB NO.
E18-337



PRE-DEVELOPMENT



POST-DEVELOPMENT

STORM SEWER CALCULATIONS TABLE																																
Sewer Location			Drainage Area to Inlet			Time of Flow	Rainfall Runoff Flow											Elevation			Sewer Characteristics										Velocity stats	
Line	From	To	Designation	Area	Coef	TC	1100 Intensity	125 Intensity	110 Intensity	Inlet 100yr K*I ^{0.56} *A	Inlet 25yr K*I ^{0.56} *A	Inlet 10yr K*I ^{0.56} *A	Additional Flow Lines	Additional cfs	In-pipe 100yr K*I ^{0.56} *A	In-pipe 25yr K*I ^{0.56} *A	In-pipe 10yr K*I ^{0.56} *A	Inlet	Top elevation	Coverage	Pipe Size (in)	FLin	Flout	segment length	slope	pipe area	Pipe Capacity (cfs)	100yr overflow	V 10ys	V 100 yr		
LINE 1	CI-1-6	CI-1-5	A-1, A-9	0.49	0.60	5.00	10.32	8.53	7.35	3.79	2.76	2.16			3.79	2.76	2.16	CI-1-6	982.00	1.20	12.00	979.80	978.70	107.54	1.02	0.79	3.60	YES	2.75	4.83		
	CI-1-5	CI-1-4	A-2b, A-2a	0.37	0.60	5.00	10.32	8.53	7.35	2.86	2.08	1.63			6.66	4.84	3.79	CI-1-5	982.70	2.95	15.00	978.50	977.80	96.62	0.72	1.23	5.50	YES	3.09	5.43		
	CI-1-4	CI-1-3	A-3b, A-3a	0.41	0.60	5.00	10.32	8.53	7.35	3.17	2.31	1.81			9.83	7.15	5.60	CI-1-4	982.60	3.60	18.00	977.50	976.60	72.09	1.25	1.77	11.73	NO	3.17	5.57		
	CI-1-3	AI-1-2	A-4b, A-4a	0.34	0.60	5.00	10.32	8.53	7.35	2.63	1.91	1.50			12.46	9.06	7.10	CI-1-3	982.70	4.60	24.00	976.10	975.50	44.85	1.34	3.14	26.15	NO	2.26	3.97		
	AI-1-2	CI-1-1	A-5	0.02	0.60	5.00	10.32	8.53	7.35	0.15	0.11	0.09			12.62	9.18	7.19	AI-1-2	982.40	5.20	24.00	975.20	974.50	105.32	0.66	3.14	18.43	NO	2.29	4.02		
	CI-1-1	EX-FL	A-6	0.23	0.60	5.00	10.32	8.53	7.35	1.78	1.29	1.01			14.40	10.47	8.21	CI-1-1	979.40	3.10	24.00	974.30	974.00	13.32	2.25	3.14	33.93	NO	2.61	4.59		
LINE 2	AI-2-6	AI-2-5	A-9b	0.04	0.60	10.00	8.59	7.05	6.08	0.26	0.19	0.15			0.26	0.19	0.15	AI-2-6	982.00	2.00	12.00	979.00	978.20	58.14	1.38	0.79	4.18	NO	0.19	0.33		
	AI-2-5	AI-2-4	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			0.26	0.19	0.15	AI-2-5	982.33	3.33	12.00	978.00	977.70	17.45	1.72	0.79	4.67	NO	0.19	0.33		
	AI-2-4	JB-2-3	A-10	0.13	0.60	5.00	10.32	8.53	7.35	1.01	0.73	0.57			1.26	0.92	0.72	AI-2-4	982.29	3.79	12.00	977.50	977.20	15.09	1.99	0.79	5.02	NO	0.92	1.61		
	JB-2-3	CI-2-2	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			1.26	0.92	0.72	JB-2-3	983.20	5.20	12.00	977.00	973.20	125.08	3.04	0.79	6.21	NO	0.92	1.61		
	CI-2-2	JB-2-1	A-11	0.25	0.60	5.00	10.32	8.53	7.35	1.94	1.41	1.10			3.20	2.33	1.82	CI-2-2	977.40	3.40	12.00	973.00	972.70	22.48	1.33	0.79	4.11	NO	2.32	4.08		
	JB-2-1	EX-CI	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			3.20	2.33	1.82	JB-2-1	978.00	4.50	12.00	972.50	972.00	5.72	8.74	0.79	10.53	NO	2.32	4.08		
LINE 3	CI-3-2	JB-3-1	A-8	0.16	0.85	7.00	9.55	7.87	6.78	1.62	1.18	0.92			1.62	1.18	0.92	CI-3-1	974.30	2.30	12.00	971.00	968.00	24.60	12.20	0.79	12.44	NO	1.18	2.07		
	END	J-4-2	A-13a,	0.12	0.60	5.00	10.32	8.53	7.35	0.93	0.68	0.53			0.93	0.68	0.53	END	982.00	3.33	8.00	978.00	977.20	61.89	1.29	0.35	1.37	NO	1.52	2.66		
LINE 4	J-4-2	T-4-1	A-13b, A-13c	0.26	0.60	5.00	10.32	8.53	7.35	2.01	1.46	1.15			2.94	2.14	1.68	J-4-2	982.00	3.80	12.00	977.20	976.55	78.45	0.83	0.79	3.24	NO	2.14	3.75		
	T-4-1	EX-FI	N/A		0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00	LINE 5 25yr	1.46	4.40	3.60	3.14	J-4-1	982.00	4.45	12.00	976.55	976.50	4.63	1.08	0.79	3.70	YES	4.00	5.61		
LINE 5	END	J-5-1	A-12c	0.18	0.60	5.00	10.32	8.53	7.35	1.39	1.01	0.79			1.39	1.01	0.79	END	982.00	3.33	8.00	978.00	977.30	59.23	1.18	0.35	1.31	YES	2.28	3.99		
	J-5-1	J-4-1	A-12a, A-12b	0.26	0.60	5.00	10.32	8.53	7.35	2.01	1.46	1.15			3.41	2.48	1.94	J-5-1	982.00	3.70	12.00	977.30	976.55	76.04	0.99	0.79	3.54	NO	2.47	4.34		

SITE STORM DRAINAGE PLAN AND CALCULATIONS