

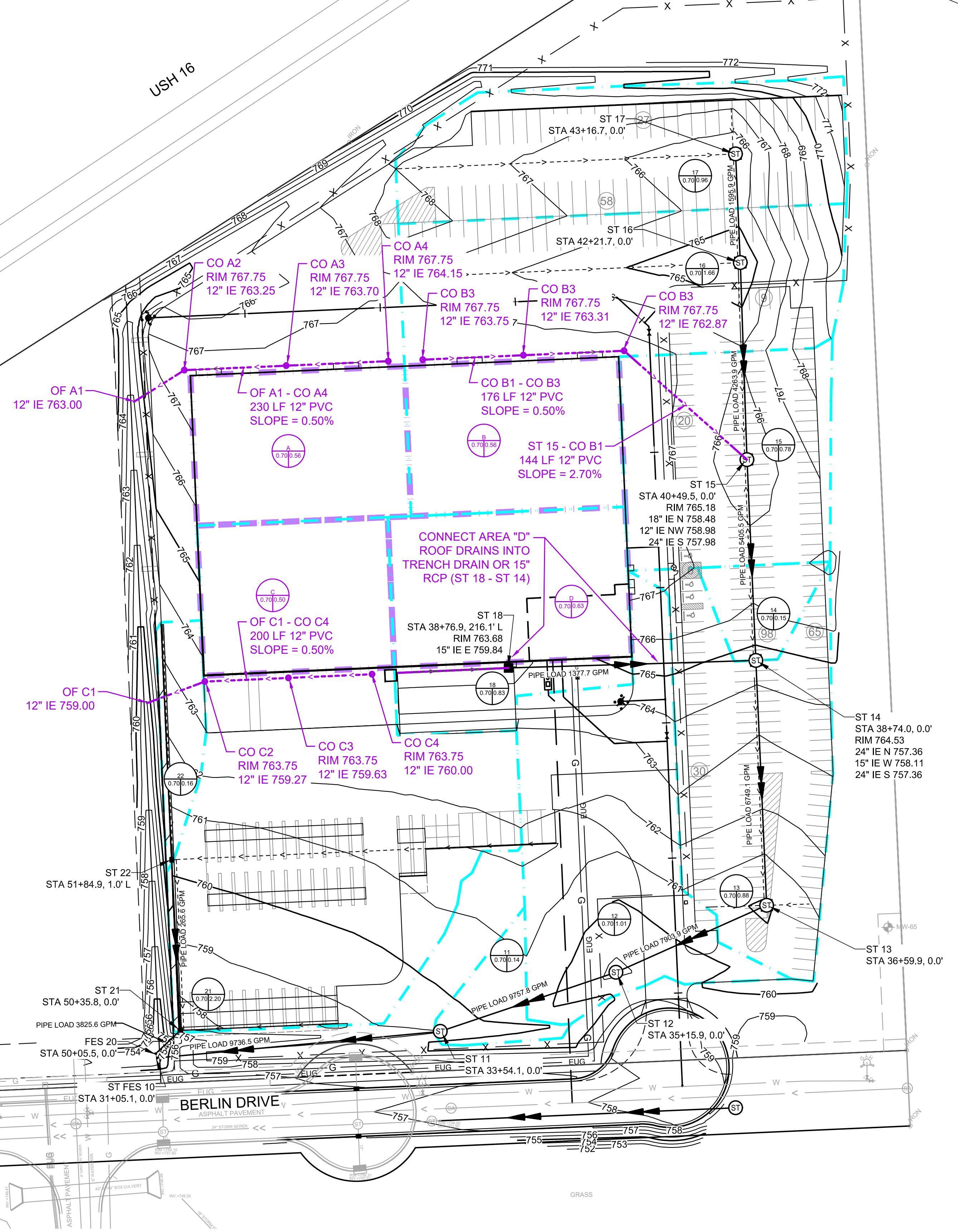
PROJECT NAME: FED EX - LA CROSSE
 STORM SEWER SIZING CALCULATIONS
 PROJECT NO.: SCANP_148296

Coefficients for "I" formula:

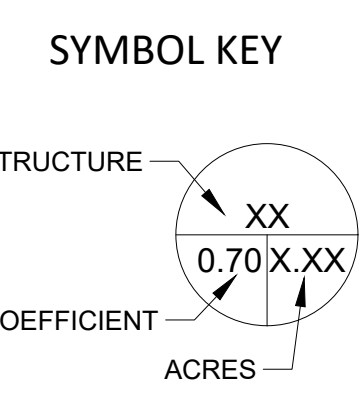
a:	b:	k:
35.227	1.895	0.679
100.00	48.766	1.629
		0.661

DATE: 04/15/2020

INCR. AREA (acres)	STRUCTURES from to	CUMM. AREA (acres)	INCR. C	AVG. "C"	CA	I (in/hr)	Q-DESIGN (cfs)	GPM	L (ft)	S %	n	DIA (in)	Q-CAP (cfs)	VEL. (FPS)	X =		UPPER RIM (RIM-F/L)	UPPER ELEV	LOWER ELEV	RIM TO TOP OF PIPE
															$\frac{Q_{design}}{Q_{cap}}$	$\frac{T_t}{T_c}$				
0.96	ST 17 to ST FES 10	0.96	0.70	0.70	0.67	5.28	3.55	1595.9	95.00	0.50	0.013	15	4.6	3.7	0.4	10.0	765.03	760.75	760.28	3.03
1.66	ST 17 to ST 16	2.62	0.70	0.70	1.84	5.18	9.50	4263.9	172.24	0.90	0.013	18	10.0	5.7	0.5	10.4	764.01	760.03	758.47	2.48
0.78	ST 15 to ST 14	3.40	0.70	0.70	2.38	5.06	12.04	5404.5	175.50	0.35	0.013	24	13.4	4.3	0.7	10.9	765.18	757.97	757.36	5.21
0.83	ST 18 to ST 14	0.83	0.70	0.70	0.58	5.28	3.07	1377.7	216.10	0.80	0.013	15	5.8	4.7	0.8	10.0	763.68	759.84	758.11	2.59
0.15	ST 14 to ST 13	4.38	0.70	0.70	3.06	4.90	15.03	6749.1	214.07	0.65	0.013	24	18.3	5.8	0.6	11.6	764.53	757.36	755.97	5.17
0.88	ST 13 to ST 12	5.26	0.70	0.70	3.68	4.78	17.60	7903.9	144.01	0.70	0.013	24	19.0	6.0	0.4	12.2	759.84	755.97	754.96	1.87
1.34	ST 12 to ST 11	6.60	0.70	0.70	4.62	4.70	21.73	9757.8	161.85	0.30	0.013	30	22.5	4.6	0.6	12.6	758.77	754.46	753.98	1.81
0.14	ST 11 to ST FES 10	6.74	0.70	0.70	4.72	4.60	21.68	9736.5	248.96	0.30	0.013	30	22.5	4.6	0.9	13.2	759.04	753.98	753.23	2.57
0.16	ST 21 to ST FES 20	0.16	0.70	0.70	0.11	5.28	0.59	265.6	149.17	0.90	0.013	15	6.1	5.0	0.5	10.0	760.23	755.05	753.71	3.93
2.20	ST 22 to ST FES 20	2.36	0.70	0.70	1.65	5.16	8.52	3825.6	30.21	0.75	0.013	18	9.1	5.2	0.1	10.5	757.32	753.46	753.23	2.36



DRAFT
8.20.2020



Save: 8/19/2020 9:56 AM patty\Plot: 8/19/2020 10:16 AM useh\projects\PT\SCANP148296\5-final-dsgn\5-1-drawings\10-Civil\cadd\dwg\base\148296_PN-DRN.dwg

DRAWN BY: PAL				
DESIGNER:				
CHECKED BY: IV / JJT				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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ROOF DRAIN SYSTEM