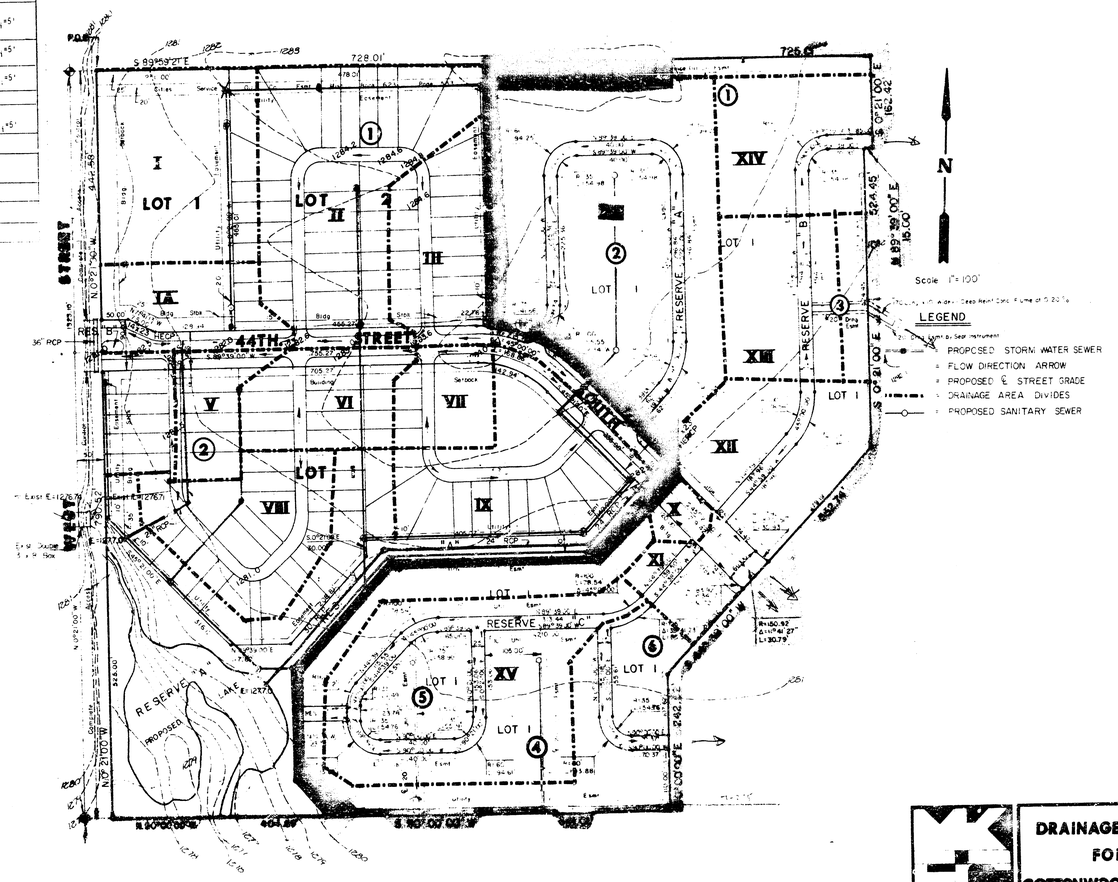
COTTONWOOD GROVE 2ND ADDITION
(Drainage)

Cottonwood Grove 2nd	AREA (acres)	AREA ACCUM.	C	T_c (min)	I_2 (in/hr)	I_{100} (in/hr)	Q_A (cfs)	Q_{100} (cfs)	PIPE SIZE	PIPE SLOPE	INLETS
III	1.4		0.70	15	3.83	7.37	3.75	7.22			
II	3.4		0.70	18	3.51	6.84	8.35	16.28			
II-A	0.8	5.6	0.70 0.70	15 20	3.83 3.33	7.37 6.53	2.15 13.05	4.13 25.60	14"x23" HERCP	0.20%	$1L_1$+5'
VII	0.7		0.70	15	3.83	7.37	1.68	3.61			
VI	1.2		0.70	17	3.61	7.00	3.03	5.88			
V	0.7	 2.6 8.2	0.70 0.70 0.70	15 25 22	3.83 3.17 3.17	7.37 6.26 6.26	1.88 5.76 18.20	3.61 11.39 35.93	24"RCP	0.20%	$1L_1$+5'
VIII	1.8	10.0	0.70 0.70	17 24	3.61 3.03	7.00 6.01	4.55 21.21	8.82 42.42	24"RCP	0.25%	$2L_1$+5'
IV	5.5		0.70	22	3.17	6.26	12.20	24.10	14"x23" HERCP	0.20%	$1L_1$+5'
IX	2.3		0.70	16	3.72	7.18	5.99	11.60			
X	0.3	8.1	0.90 0.71	15 22	3.83 3.17	7.37 6.26	1.33 18.23	1.99 36.00	24"RCP	0.20%	$1L_1$+5'
XI	0.6		0.70	15	3.83	7.37	1.61	3.10			
XII	1.9	2.5	0.70 0.70	15 16	3.83 3.72	7.37 7.18	5.09 6.51	9.80 12.57			
XIII	1.5		0.70	15	3.83	7.37	4.02	7.74			
XIV	1.6		0.70	15	3.83	7.37	4.29	8.26	18"x11.5" ERCP	0.20%	
XV	3.7		0.70	20	3.33	6.53	8.67	16.97			



DRAINAGE PLAN FOR COTTONWOOD GROVE

KHB	
DLM	
KHB	
April, 1984	
SHEET	1
OF	1

MID-KANSAS ENGINEERING CONSULTANTS PA
2427 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206
682-6561