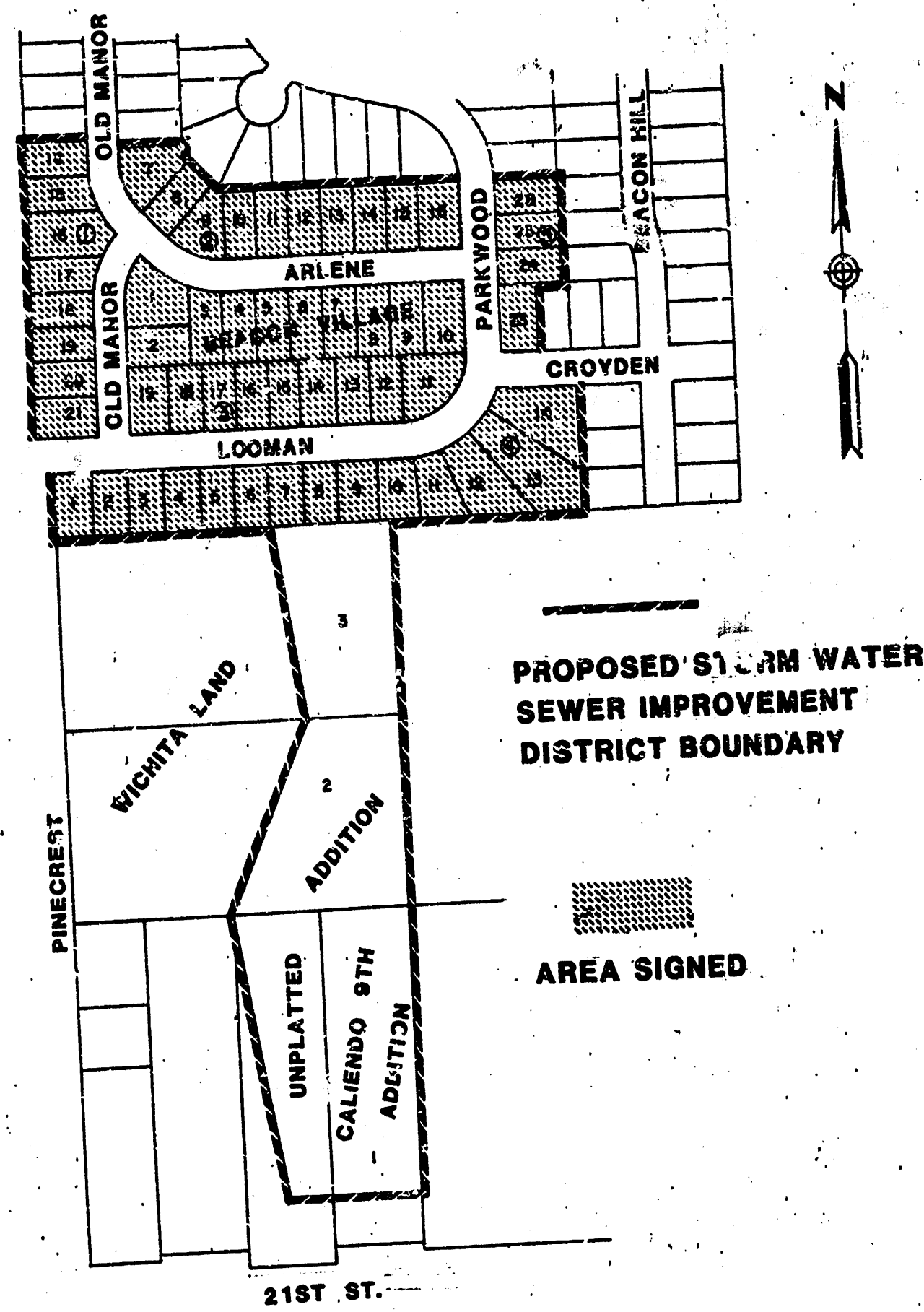




May 16, 1980

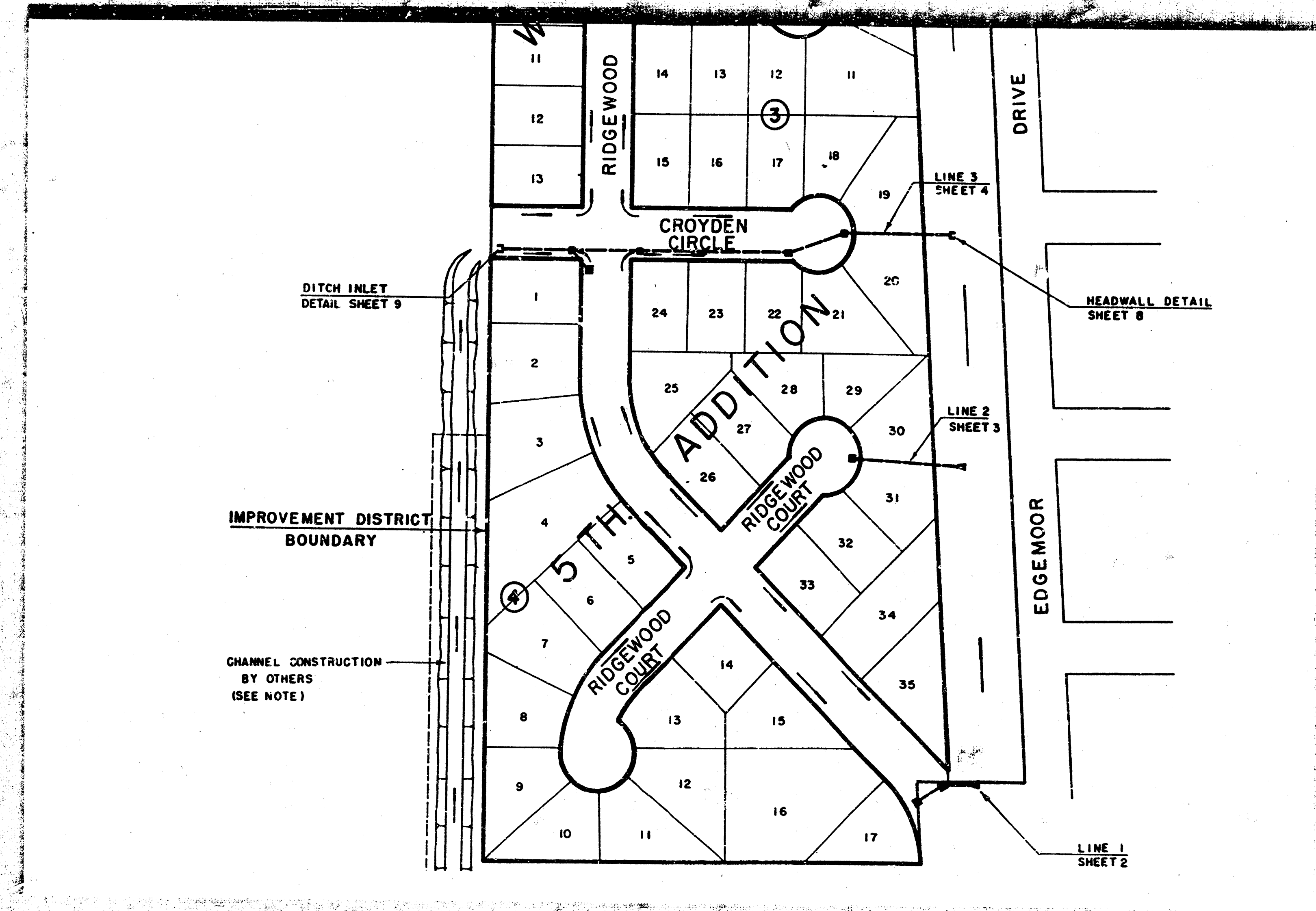
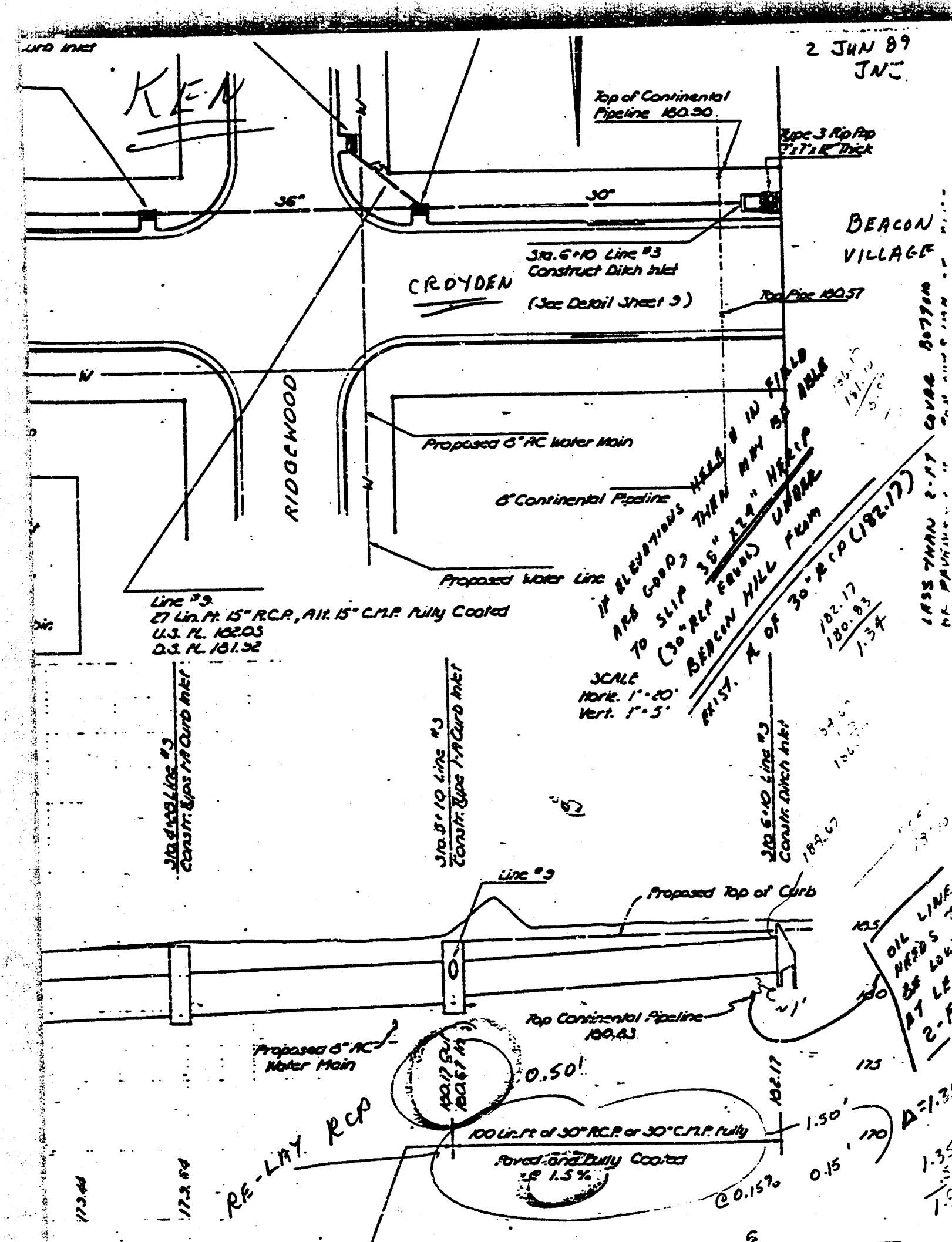
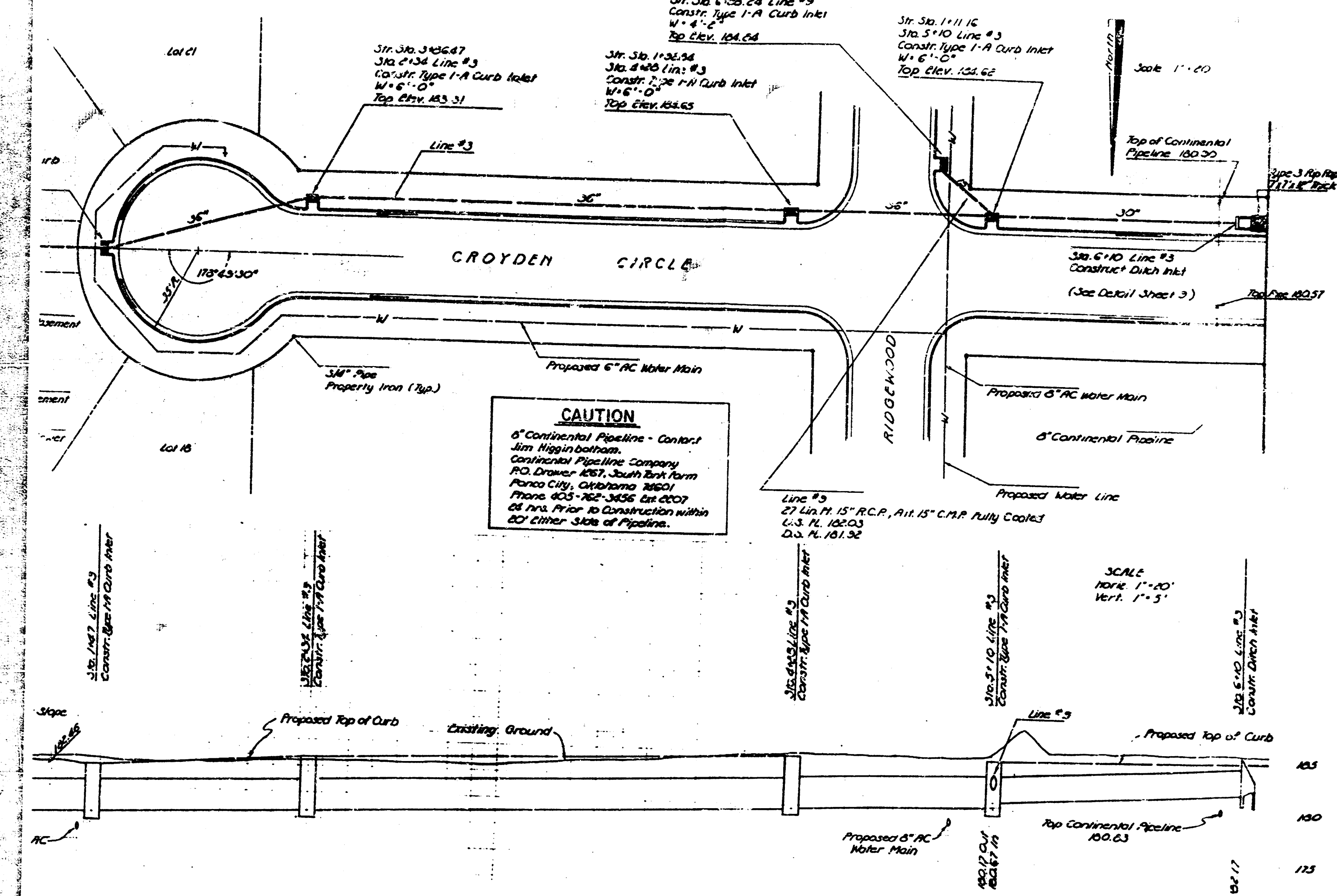
Stacy Hargis
Engineering Department
405 W. Main, 7th Floor
Wichita, KS 67202

Dear Mr. [Name]:

1. Review the contract documents and the site plan for the proposed water sewer improvement project.
2. Review the site plan for the proposed water sewer improvement project.
3. Review the site plan for the proposed water sewer improvement project.
4. Review the site plan for the proposed water sewer improvement project.

If you have any questions or need more information, please contact me at the above address.

Sincerely,
Stacy Hargis
Project Engineer



24 MAY 1977
JMS

DATE 10
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BEACON VILLAGE - REVISED DRAINAGE PLAN (PARKWOOD SYSTEM TO MAINSGATE)

PAGE #1

Drainage Area	Area (Acres)	Accum. Area	Cs	C100	Tc (min)	Ic (in/hr)	I100 (in/hr)	Q5 (cfs)	Q100 (cfs)	Pipe Size	Pipe Slope	Inlets	
AREA 'I' DIE-SITE DRAINAGE OF BASEMENT IN WICHITA LAND ADDITION	15.47		0.77	0.86	20	15	4.00	7.37	41.5	85.4	30" RCP	1.20%	AREA INLET (SUMP)
			Cs	C100			Ic	I100	Q5	Q100			
AREA 'II' RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	2.24		0.54	0.67	24	20	2.90	6.53	3.5	9.8	21" RCP	0.40%	11(12) 10'
AREA 'III' RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	0.88		0.54	0.67	33	25	2.52	5.90	1.2	3.5	-	-	11(12) 5'
SUB-TOTAL	16.59		0.73	0.82	24	20	2.90	6.53	35.1	88.8	30" RCP	0.80%	-
AREA 'IV' RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	1.90		0.54	0.67	29	22	2.72	6.26	2.4	8.0	21" RCP	0.25%	11(12) 10'
AREA 'V' RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	0.88		0.54	0.67	22	17	3.17	7.00	1.5	4.1	-	-	11(12) 5'
SUB-TOTAL	19.37		0.70	0.80	24	20	2.90	6.53	37.3	101.2	30" RCP	1.00%	-

JNT

BEACON VILLAGE - REVISED DRAINAGE PLAN (BEACON HILL - MAINSGATE THEN PARKWOOD)

PAGE #2

Drainage Area	Area (Acres)	Accum. Area	Cs	C100	Tc (min)	I2 (in/hr)	I100 (in/hr)	Q5 (cfs)	Q100 (cfs)	PIPE SIZE	PIPE SLOPE	INLETS
AREA "IX" RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	2.16		0.54	0.67	40	31	2.24	5.32	2.4	7.7	21" RCP	0.25% 14(12) 5' (SUMP)
AREA "XII" RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	1.43		0.54	0.67	38	27	2.44	5.69	2.1	6.2	-	14(12) 5' (SUMP)
SUB-TOTAL	3.59		0.54	0.67	40	31	2.24	5.32	4.4	13.9	24" RCP	0.40% -
AREA "XI" RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	5.51		0.54	0.67	38	27	2.32	5.49	4.9	20.3	-	24(12) 10' (SUMP)
SUB-TOTAL	9.10		0.54	0.67	40	31	2.24	5.32	11.2	33.1	36" RCP	0.30% -
AREA "XIII" RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	1.87		0.54	0.67	22	17	3.17	7.00	3.2	8.8	-	11(12) 10' (SUMP)
PARKWOOD - SUB-TOTAL	19.37		0.70	0.80	26	20	2.90	6.53	37.3	101.2	-	-
SUB-TOTAL	30.54		0.64	0.75	26	20	2.90	6.53	56.7	149.6	54" RCP	0.60% -
AREA "X" RESIDENTIAL - SINGLE FAMILY 1/2 AC 50% IMPERVIOUS	2.14		0.54	0.67	29	22	2.72	6.26	3.4	10.3	24" RCP	0.25% 14(12) 10'
TOTAL - BEACON HILL SYSTEM	33.00		0.63	0.74	29	22	2.72	6.26	56.5	152.9	54" RCP	0.60% 11(12) 5'

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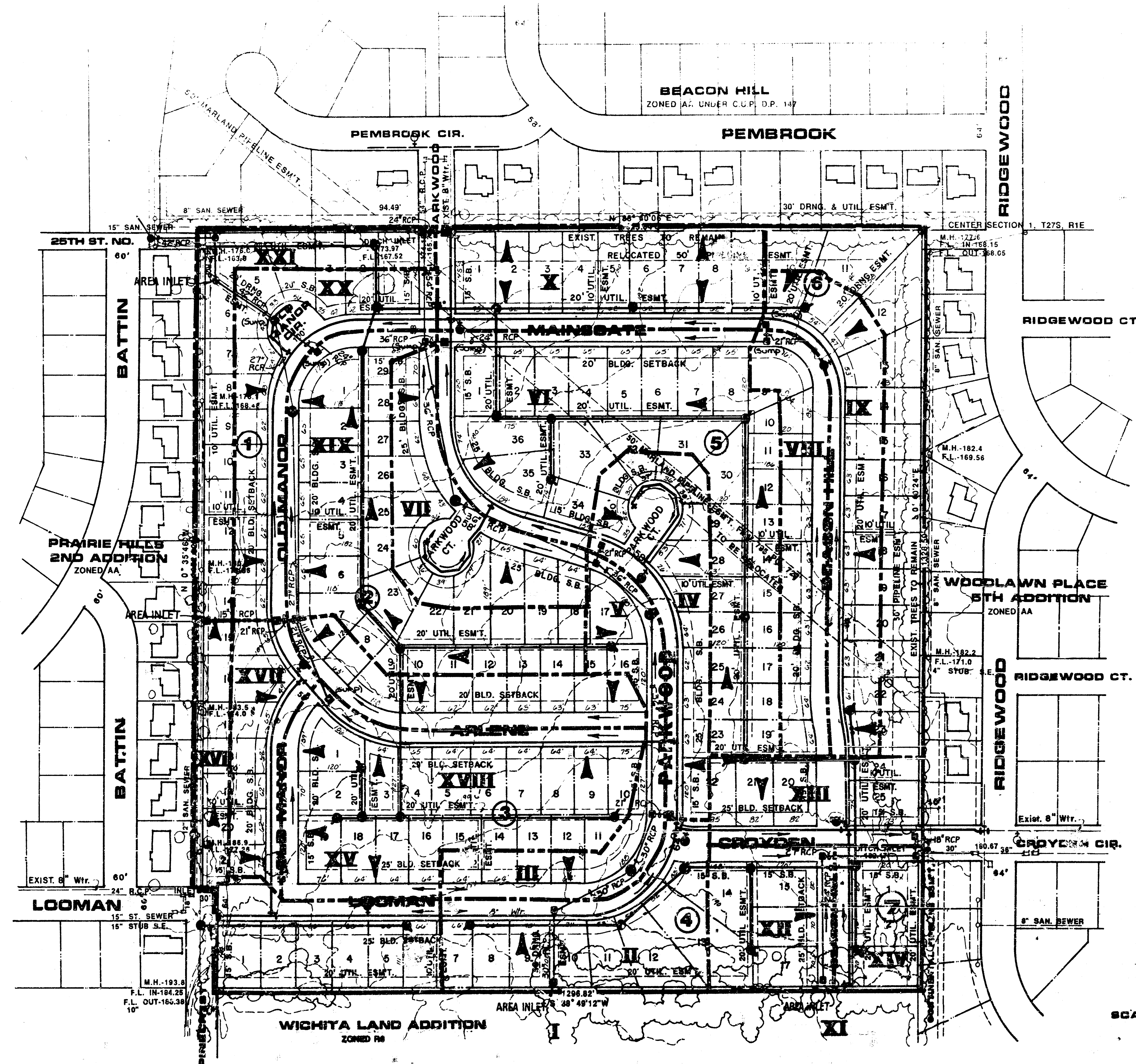
BEACON VILLAGE - REVISED DRAINAGE PLAN (CROYDEN SYSTEM TO EAST)

1	2	3	4	5	6	7	8	9	10	11	12
DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₁	C ₁₀₀	T _C (MIN)	I ₁₀₀ (IN/HR)	Q ₁₀₀ (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'XI' DIFFUSE DRAINAGE OF UNDEVELOPED LAND & APARTMENTS	13.09		0.57	0.73	28	2.78	6.53	21.5	24" RCP	1.00%	AREA INLET
AREA 'XII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.35		0.54	0.67	22	3.17	7.00	2.3	-	-	1140' ± 5'
SUB-TOTAL	14.44		0.59	0.72	28	2.78	6.53	23.7	27" RCP	0.60%	-
AREA 'XIII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.45		0.54	0.67	22	2.78	6.24	2.2	18" RCP	0.40%	1140' ± 5'
AREA 'XIV' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	0.96		0.54	0.67	18	3.51	7.87	1.8	-	-	1400' ± 5'
TOTAL - EAST INTO CROYDEN SYSTEM	16.85		0.58	0.71	28	2.78	6.24	27.2	30" RCP	0.50%	-

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BEACON VILLAGE - REVISED DRAINAGE PLAN (OLD MANOR SYSTEM TO NORTHWEST)

1	2	3	4	5	6	7	8	9	10	11	12
DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₁	C ₁₀₀	T _C (MIN)	I ₁₀₀ (IN/HR)	Q ₁₀₀ (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'XV' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	4.00		0.54	0.67	31	2.62	6.01	5.7	21" RCP	1.00%	1140' ± 10' (SUMP)
AREA 'XVI' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	0.77		0.54	0.67	20	3.33	7.37	1.4	15" RCP	0.40%	AREA INLET
AREA 'XVII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.20		0.54	0.67	22	3.17	7.00	2.1	-	-	1140' ± 5'
SUB-TOTAL	1.97		0.54	0.67	22	3.17	7.00	3.4	21" RCP	0.40%	-
AREA 'XVIII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.49		0.54	0.67	29	2.72	6.13	2.2	-	-	1140' ± 5'
SUB-TOTAL	7.46		0.54	0.67	31	2.62	6.01	10.6	27" RCP	1.00%	-
AREA 'XIX' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	3.48		0.54	0.67	30	2.67	6.13	5.0	24" RCP	0.50%	1140' ± 10' (SUMP)
AREA 'XX' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	2.24		0.54	0.67	25	2.96	6.68	3.6	10.1	-	1140' ± 10' (SUMP)
SUB-TOTAL	13.20		0.54	0.67	31	2.62	6.01	18.7	42" RCP	0.30%	-
AREA 'XXI' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.93		0.54	0.67	28	2.78	6.39	2.7	7.8	-	AREA INLET
TOTAL - NORTHWEST TO BATTIN	15.03		0.54	0.67	31	2.62	6.01	21.3	48" RCP	0.20%	-

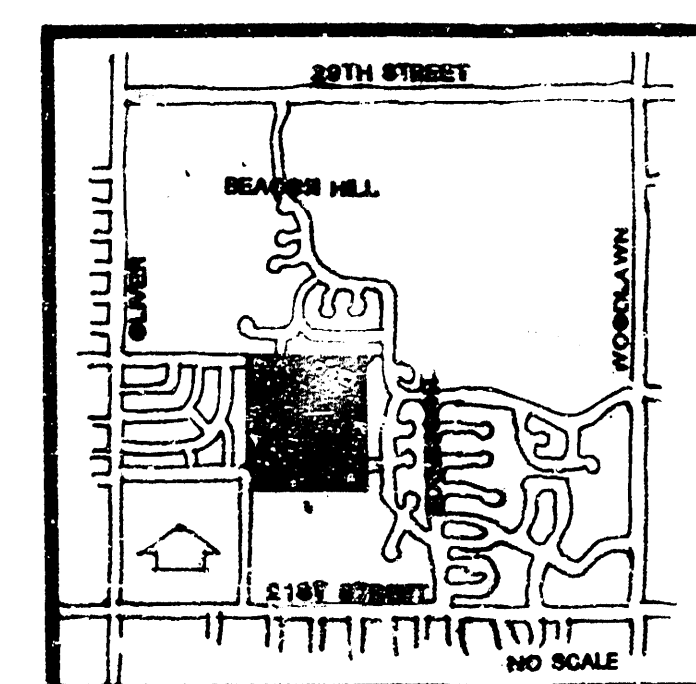


NOTES:

BENCH MARK: SQUARE CUT IN TOP OF CURB AT N.W. CORNER OF LOT 9, BLOCK 2, BEACON HILL ADDITION ELEV. 177.34

RELOCATION OF MARLAND PIPELINE IS TO BE DONE BY OWNER AT NO EXPENSE TO THE CITY OF WICHITA.

TOPOGRAPHIC SURVEY FLOWN BY MILES AIR PHOTO IN FALL OF 1987.



LOCATION MAP

N
W
E
S
SCALE: 1"=100'

DRAINAGE & UTILITY PLAN

	BEACON VILLAGE	Design: JNJ
	DRAINAGE & UTILITY PLAN	Checked by: RSM/KKL
		Date: 4.25.89
		File no: