

May 16, 1980

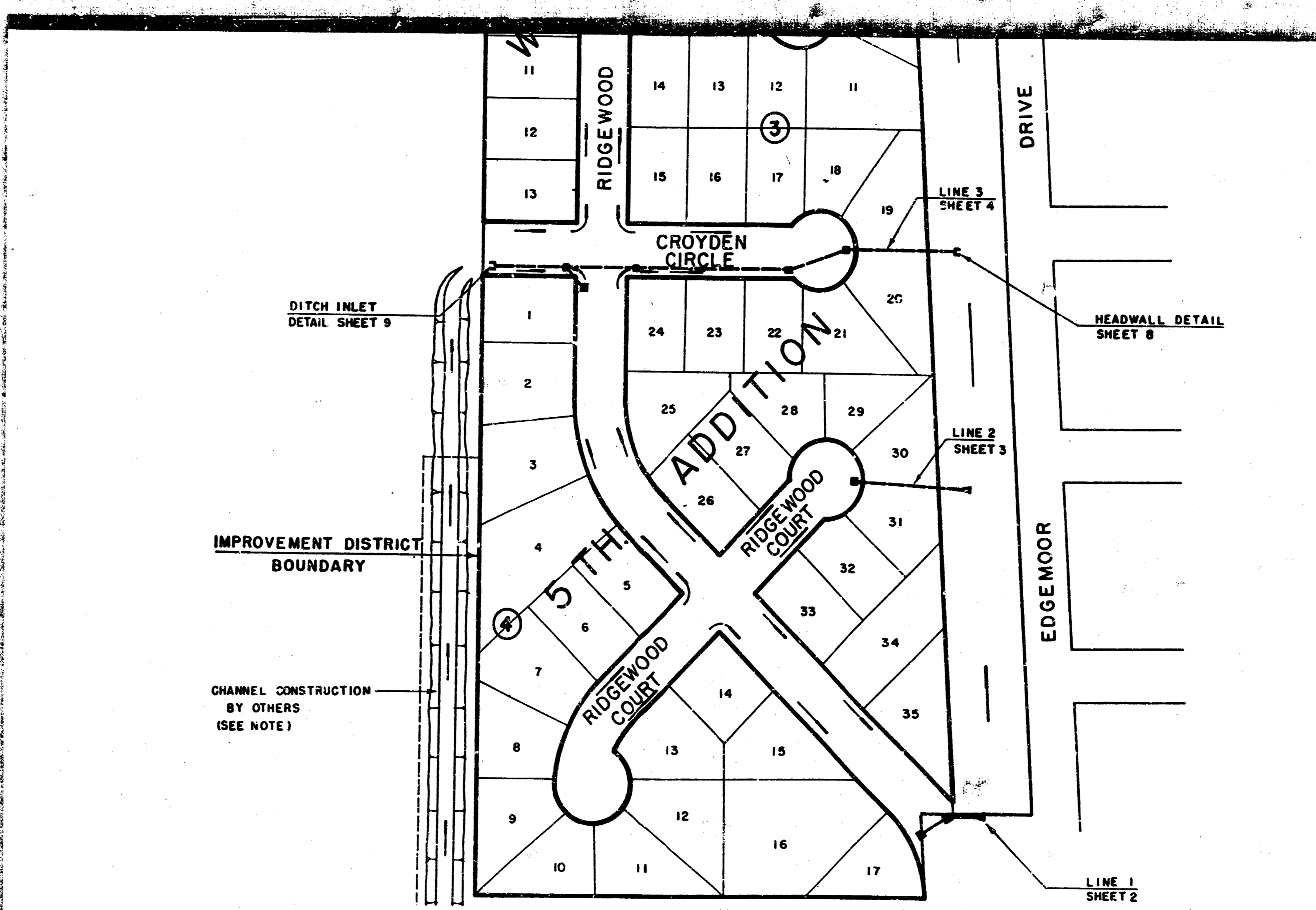
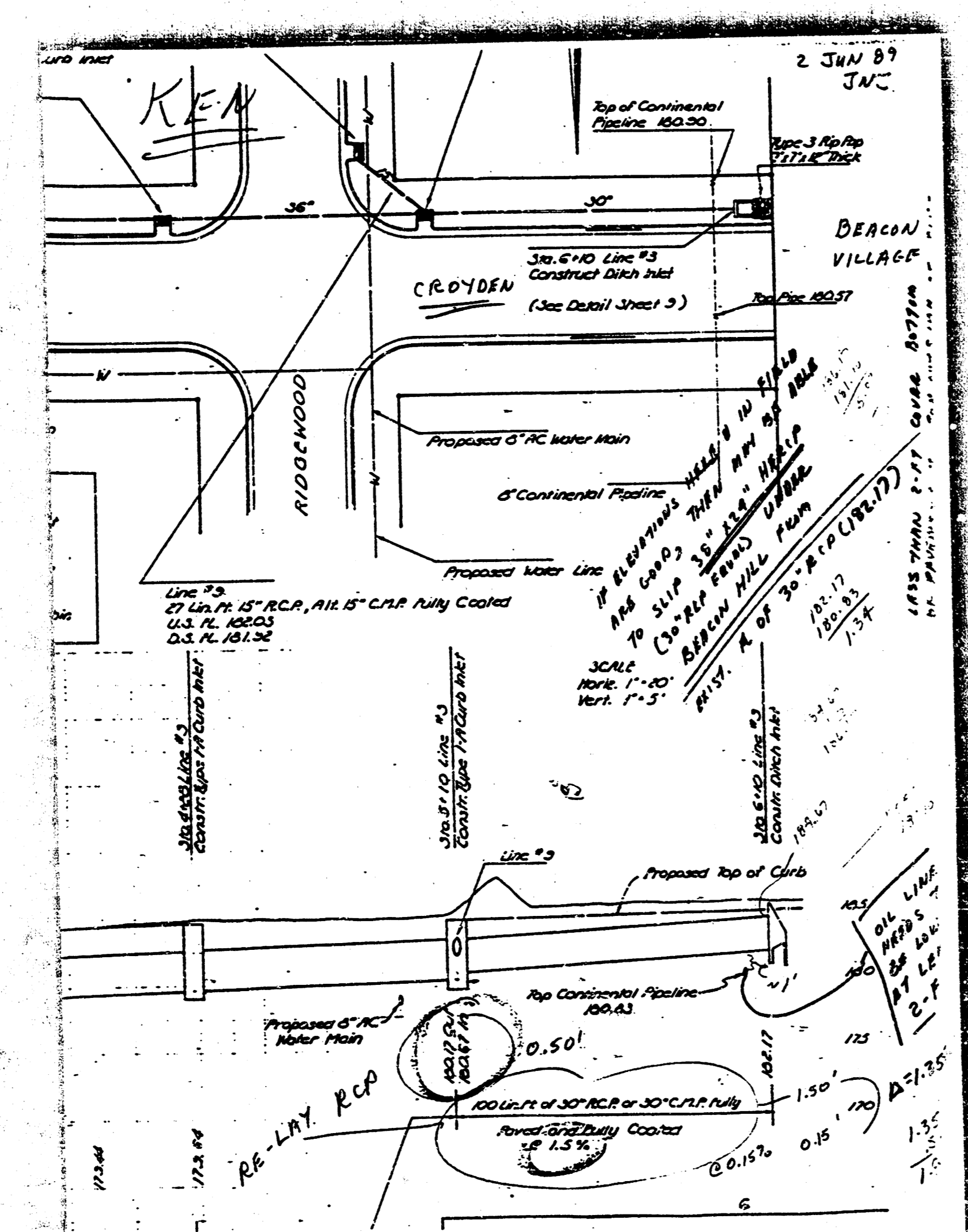
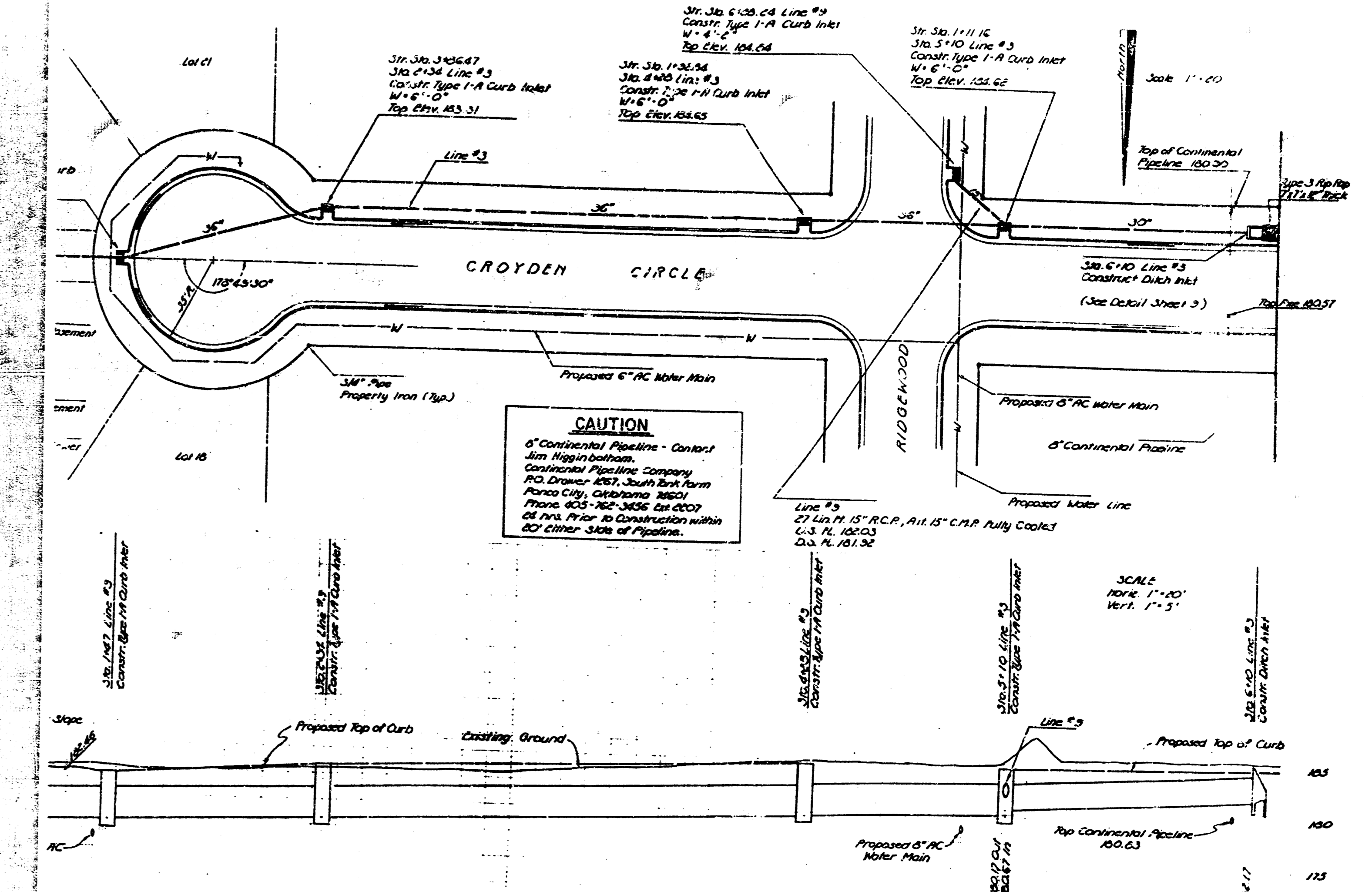
Stick Hazard
Engineering Department
405 W. Main, 7th Floor
Wichita, KS 67202

Dear Mrs. J. J. ...

1. Review the contract documents and the site plan and show the location of the proposed water sewer improvement district boundary.
2. Provide a plan showing the proposed water sewer improvement district boundary and the location of the proposed water sewer improvement district boundary.
3. Provide a plan showing the proposed water sewer improvement district boundary and the location of the proposed water sewer improvement district boundary.
4. City of Wichita will require the water sewer improvement district boundary to be shown on the site plan.

If you have any questions or questions, please contact us as soon as possible.

Sincerely,
J. J. ...



BEACON VILLAGE - RE-USED DRAINAGE PLAN (PARKWOOD SYSTEM TO MAINS GATE)

PAGE #1

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C _s	C ₁₀₀	T _c (MIN)	I _s (IN/HR)	I ₁₀₀ (IN/HR)	Q _s (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'I' ONE-SIZE DRAINAGE OF BASEMENT IN WICHITA LAND ADDITION	13.47		0.77	0.86	20	15	4.00	7.37	41.5	85.4	30" RCP	AREA MAINT (SUMP)
AREA 'II' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	2.24		0.54	0.67	24	30	2.90	6.53	3.5	9.8	21" RCP	0.40% 11(1) 10'
AREA 'III' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	0.88		0.54	0.67	33	25	2.52	5.90	1.2	3.5		11(1) 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" SOILS - 1/4" AC 50% IMPERVIOUS	1.90		0.54	0.67	29	22	2.72	6.26	2.6	8.0	21" RCP	0.25% 11(1) 10'
AREA 'V' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	0.88		0.54	0.67	22	17	3.17	7.00	1.5	4.1		11(1) 5'
SUB-TOTAL	19.37		0.70	0.80	24	20	2.90	6.53	37.3	101.2	30" RCP	1.00%

BEACON VILLAGE - RE-USED DRAINAGE PLAN (BEACON HILL - MAINS GATE THEN PARKWOOD)

PAGE #2

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C _s	C ₁₀₀	T _c (MIN)	I _s (IN/HR)	I ₁₀₀ (IN/HR)	Q _s (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'VI' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	2.16		0.54	0.67	40	31	2.24	5.32	2.4	7.7	21" RCP	0.25% 11(1) 5' (SUMP)
AREA 'VII' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	1.43		0.54	0.67	38	27	2.44	5.69	2.1	6.2		11(1) 5' (SUMP)
SUB-TOTAL	3.79		0.54	0.67	40	31	2.24	5.32	4.4	13.5	24" RCP	0.40%
AREA 'VIII' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	5.51		0.54	0.67	38	27	2.32	5.49	4.9	20.3		21(1) 10' (SUMP)
SUB-TOTAL	9.30		0.54	0.67	40	31	2.24	5.32	11.2	33.1	36" RCP	0.30%
AREA 'IX' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	1.87		0.54	0.67	22	17	3.17	7.00	3.2	8.8		11(1) 10' (SUMP)
PARKWOOD - SUB-TOTAL	19.37		0.70	0.80	24	20	2.90	6.53	37.3	101.2		
SUB-TOTAL	30.54		0.64	0.75	24	20	2.90	6.53	56.7	149.6	54" RCP	0.60%
AREA 'X' RESIDENTIAL - SINGLE FAMILY 1/2" SOILS - 1/4" AC 50% IMPERVIOUS	2.16		0.54	0.67	29	22	2.72	6.26	3.1	10.3	24" RCP	0.25% 11(1) 10'
TOTAL - MAINS GATE BEACON HILL SYSTEM	33.00		0.63	0.74	29	22	2.72	6.26	56.5	152.9	54" RCP	0.60% 11(1) 5'

25 APRIL 1989
PAGE #3

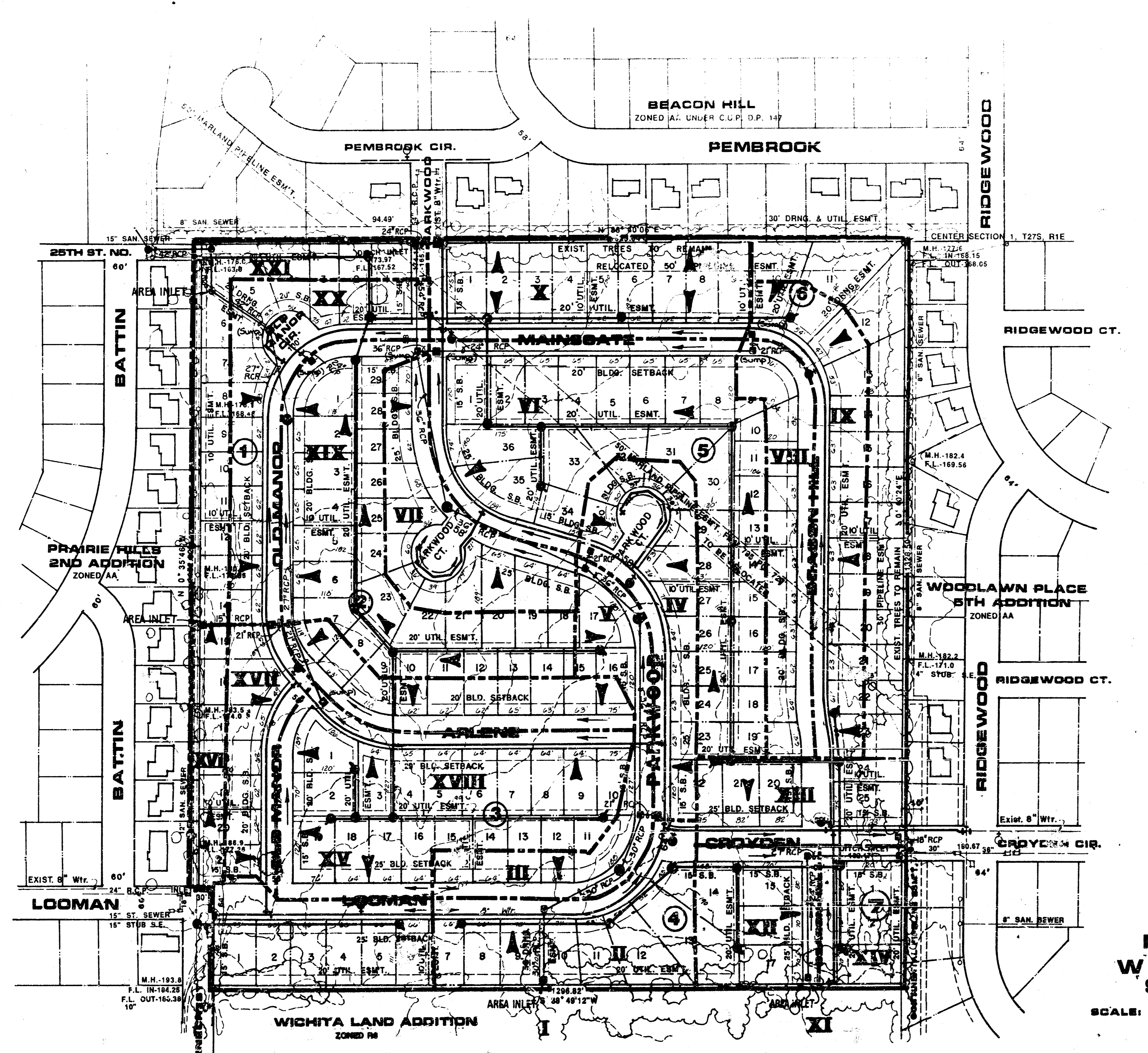
BEACON VILLAGE - REVISED DRAINAGE PLAN (CROYDEN SYSTEM TO EAST)

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₂	C ₁₀₀	T ₁ (MIN)	T ₂ (MIN)	T ₃ (MIN)	T ₄ (MIN)	T ₅ (MIN)	T ₆ (MIN)	T ₇ (MIN)	T ₈ (MIN)	T ₉ (MIN)	T ₁₀ (MIN)	PIPE SIZE	PIPE SLOPE	INLETS
AREA XX OFFICE BUILDING OF UNDEVELOPED LAND & APARTMENTS	13.09		0.59	0.73	28	20	2.78	6.53	21.5	42.4	24" RCP	1.00%			AREA INLET		
AREA XXI RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	1.35		0.54	0.67	22	17	3.17	7.00	2.3	4.3					14(1) x 5'		
SUB-TOTAL	14.44		0.59	0.72	26	20	2.78	6.53	23.7	47.7	27" RCP	0.60%					
AREA XXII RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	1.45		0.54	0.67	28	22	2.78	6.24	2.2	4.1	18" RCP	0.40%			14(1) x 5'		
AREA XXIII RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	0.96		0.54	0.67	18	15	3.51	7.37	1.8	4.7					14(1) x 5'		
TOTAL - EAST INTO CROYDEN SYSTEM	16.85		0.58	0.71	26	22	2.78	6.24	27.2	74.9	30" RCP	0.50%					

25 APRIL 1989
PAGE #4

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

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₂	C ₁₀₀	T ₁ (MIN)	T ₂ (MIN)	T ₃ (MIN)	T ₄ (MIN)	T ₅ (MIN)	T ₆ (MIN)	T ₇ (MIN)	T ₈ (MIN)	T ₉ (MIN)	T ₁₀ (MIN)	PIPE SIZE	PIPE SLOPE	INLETS
AREA XXIV RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	4.00		0.54	0.67	31	24	2.62	6.01	5.7	14.1	21" RCP	1.00%			14(1) x 10' (SUMP)		
AREA XXV RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	0.77		0.54	0.67	20	15	3.33	7.37	1.4	3.8	15" RCP	0.40%			AREA INLET		
AREA XXVI RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	1.20		0.54	0.67	22	17	3.17	7.00	2.1	5.4					14(1) x 5'		
SUB-TOTAL	1.97		0.54	0.67	22	17	3.17	7.00	3.4	9.2	21" RCP	0.40%					
AREA XXVII RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	1.49		0.54	0.67	29	23	2.72	6.13	2.2	4.1					14(1) x 5'		
SUB-TOTAL	7.46		0.54	0.67	31	24	2.62	6.01	10.6	30.0	27" RCP	1.00%					
AREA XXVIII RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	3.48		0.54	0.67	30	23	2.67	6.13	5.0	14.3	24" RCP	0.50%			14(1) x 10' (SUMP)		
AREA XXIX RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	2.24		0.54	0.67	25	19	2.96	6.68	3.6	10.1					14(1) x 10' (SUMP)		
SUB-TOTAL	13.20		0.54	0.67	31	24	2.62	6.01	18.7	53.2	42" RCP	0.30%					
AREA XXX RESIDENTIAL - SINGLE FAMILY 18' SOILS - 1/4 AC 50% IMPERVIOUS	1.93		0.54	0.67	28	21	2.78	6.39	2.7	7.8					AREA INLET		
TOTAL - NORTHWEST TO BATTIN	15.03		0.54	0.67	31	24	2.62	6.01	21.3	60.5	48" RCP	0.20%					

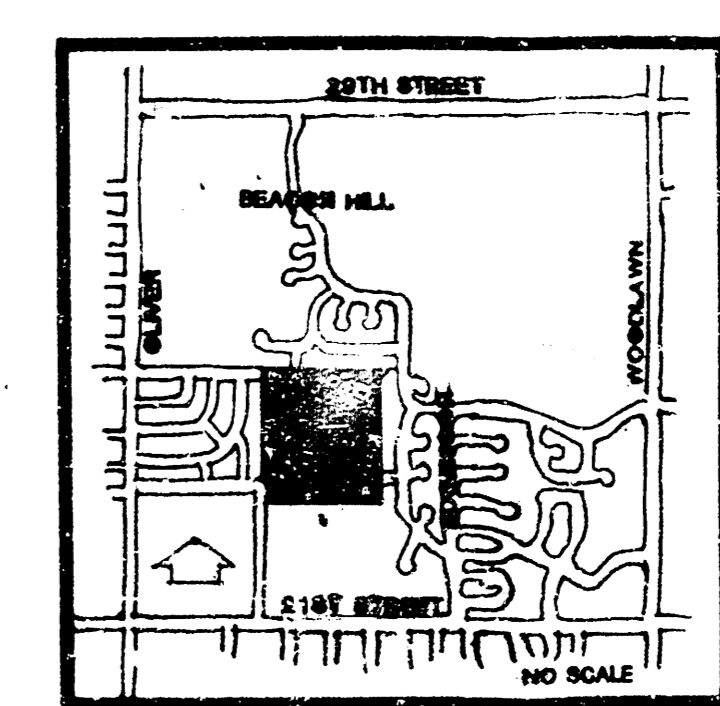


NOTES:

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.



N
W
S
SCALE: 1"=100'

DRAINAGE & UTILITY PLAN

	BEACON VILLAGE	Drawn: JNJ
	DRAINAGE & UTILITY PLAN	Checked: RSM/KKL
		Date: 4.25.89
		Scale: AS SHOWN