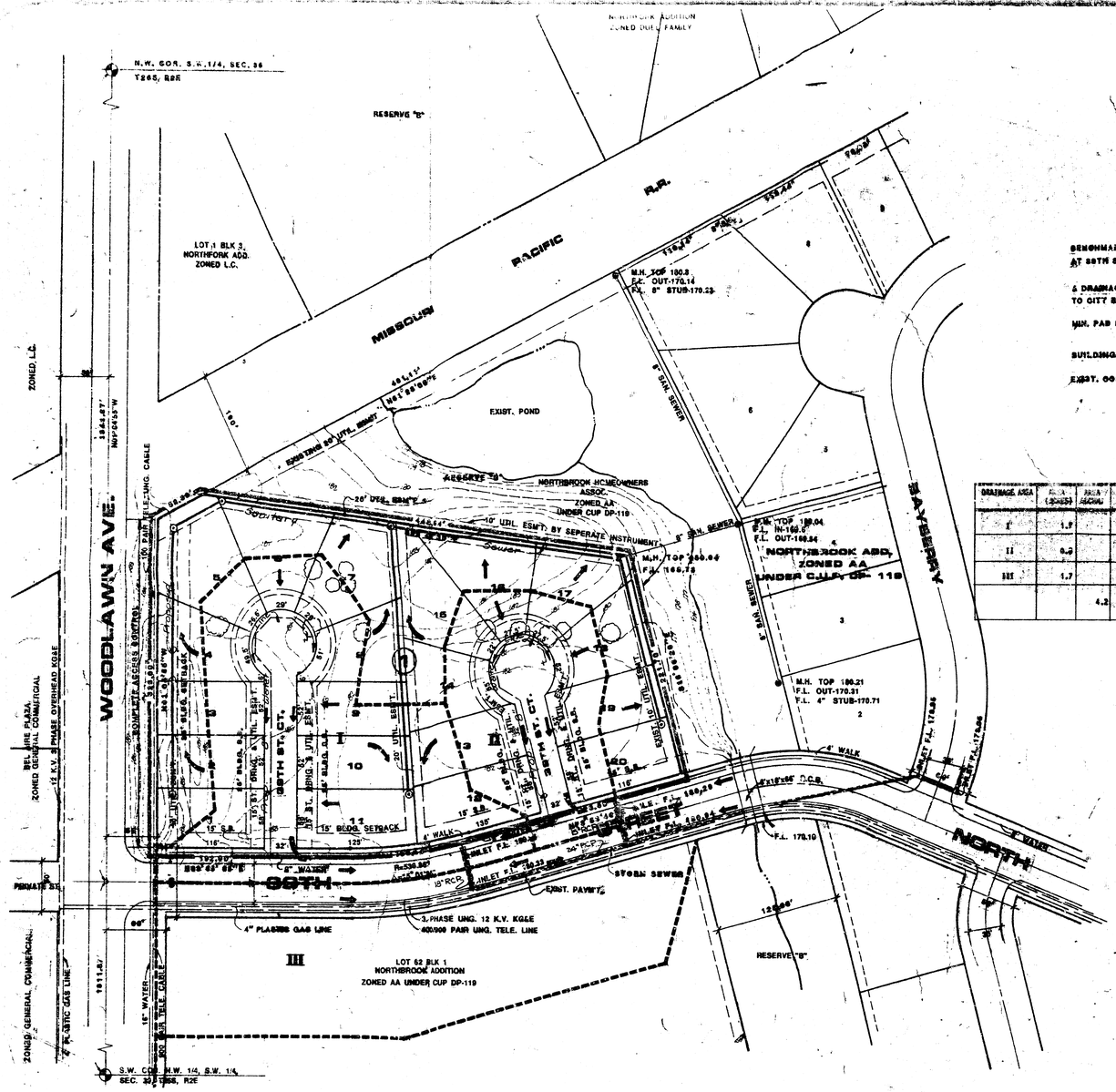


NOTES

BENCHMARK: R.R. SPIKE IN POWER POLE ON THE WEST SIDE OF WOODLAWN AT 60TH STREET NO. ELEV.- 185.18 CITY DATUM.

A DRAINAGE CONCEPT PLAN SHALL BE PREPARED BY M.K.E.C. AND SUBMITTED TO CITY ENGINEER.

MIN. PAD ELEVATIONS- LOTS 5-9 AND 14-18. ELEV. 1372. M.S.L.
LOTS 1,10-13,19 & 20. ELEV. 1371M.S.L.

BUILDINGS SETBACKS ARE AS PER NORTHFORK C.U.P. (D.P.- 119)

EXIST. CONTOURS ARE AT 1' INTERVALS. CITY DATUM.

DRAINAGE AREA	A (ACRES)	AREA (ACRES)	C_2	C_{100}	T_c	i_2	i_{100}	Q_2	Q_{100}	PIPE SLOPE	PIPE SIZE	INLETS
I	1.9		0.56	0.73	20	3.33	6.53	3.1	8.1	0.6	18"	L = 8' C?
II	0.9		0.56	0.73	20	3.33	6.53	1.5	3.8	0.6	15"	L = 6' 8"
III	1.7		0.55	0.73	20	3.33	6.53	3.1	8.1	0.6		
		4.2	0.56	0.73	20	3.33	6.53	7.7	20.0	0.6	30"	DUMPS INTO MCD

February 15, 1989

Vicky Huang
Engineering Department
455 N. Main, 7th Floor
Wichita, KS 67202

Reference: Northbrook Meadow
Drainage Plan

Dear Vicky:

Here is the drainage plan for the referenced project. All storm sewer is existing in this area. Included is the Drainage Plan which was done for the original plat of Northbrook. The system was built different from that shown on the Northbrook plan, but analysis shows it is adequate.

Sincerely,

MID-KANSAS ENGINEERING CONSULTANTS, P.A.

Greg Allison

Greg Allison, P.E.

GA/dh

RECEIVED
FEB 15 1989
ENGINEERING DIVISION

MID-KANSAS ENGINEERING CONSULTANTS PA
(316) 636-5566 FAX (316) 636-4125
3500 N. ROCK ROAD #800
WICHITA, KANSAS 67226

LOCATION MAP

N
W E
S

SCALE: 1"= 50'

FORMERLY LOT 1, BLK., NORTHBROOK ADD.

NORTHBROOK 2ND. ADD.
DRAINAGE & UTILITY PLAN

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566

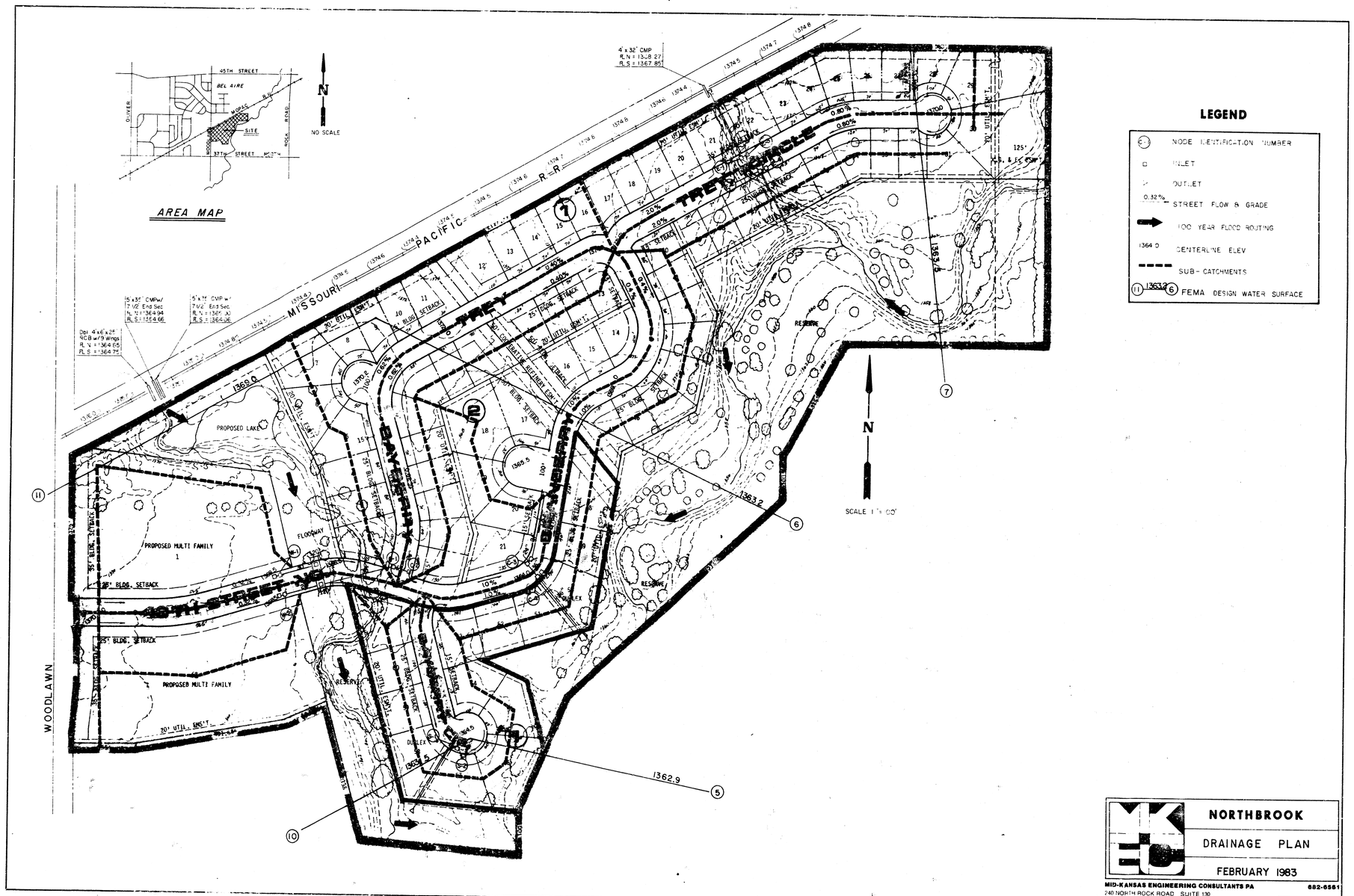
Revision Date
Prepared by:
Appr. MCD:

NORTH BROOK

Node	Ave. Street Slope (Prelim. Proposed)	T_c	Area	Area Accum.	C	i_2	i_{100}	Q_2	Q_{100}	Discharge D.W.S. (100 yr.)	Up Stm. D.W.S.	Pipe Size	Inlets (length)	Comments
C-1	0.62	20	4.15		0.55	3.63	8.03	8.23	18.32				8'	
C-2	0.62	20	2.36		0.6	3.63	8.03	5.14	11.37			84" @ 0.20%	8'	
				6.51	0.568			13.43	29.69			30" @ 0.24%		(8 crs. to C-3 on 100 Yr.)
C-3	1.10	18	5.3		0.6	3.78	8.37	12.0	26.6		1364.8		12'- 8'	
C-3A			(1.9 - 3.4)					7.7	17.1			21" @ 0.44%	8'	
C-4	1.10	18	2.7		0.6	3.78	8.37	6.1	13.6		1364.8		12'	
										1363.0		36" @ 0.54%		
W-1		15	3.2		0.75	4.06	8.98	9.7	21.6			30" @ 0.26%	16'	
W-2		18	1.7		0.75	3.78	8.37	4.8	10.7			24" @ 0.23%	8'	
S-1	0.44	15	0.74		0.6	4.06	8.98	1.8	3.98		1365.3			
S-2	0.44	15	1.10		0.6	4.06	8.98	2.68	5.93		1365.3			
				1.84	0.6	4.06	8.98	4.48	9.91	1363.5		18" @ 0.24%	6'	
E-1	1.80	15	1.46		0.55	4.06	8.98	3.26	7.21				5'	
E-2	1.80	15	0.81		0.6	4.06	8.98	1.97	4.36				4'	
E-3	0.8	15	2.3		0.55	4.06	8.98	5.13	11.35			24" @ 0.20%	8'	
E-4	0.8	15	1.2		0.6	4.06	8.98	2.9	6.4			18" @ 0.28"	5'	
										1363.4				

Box Culvert

ALL INLETS ARE IN SUMP CONDITION
1.2 - 1.6 cfs/lf



NORTHBROOK

DRAINAGE PLAN

FEBRUARY 1983

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

ONE OF ONE