

STORM SEWER NO. 413

NORTHBROOK MEADOW 2ND. ADDITION

PROJECT NO. 468-82089

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX NO. 750190

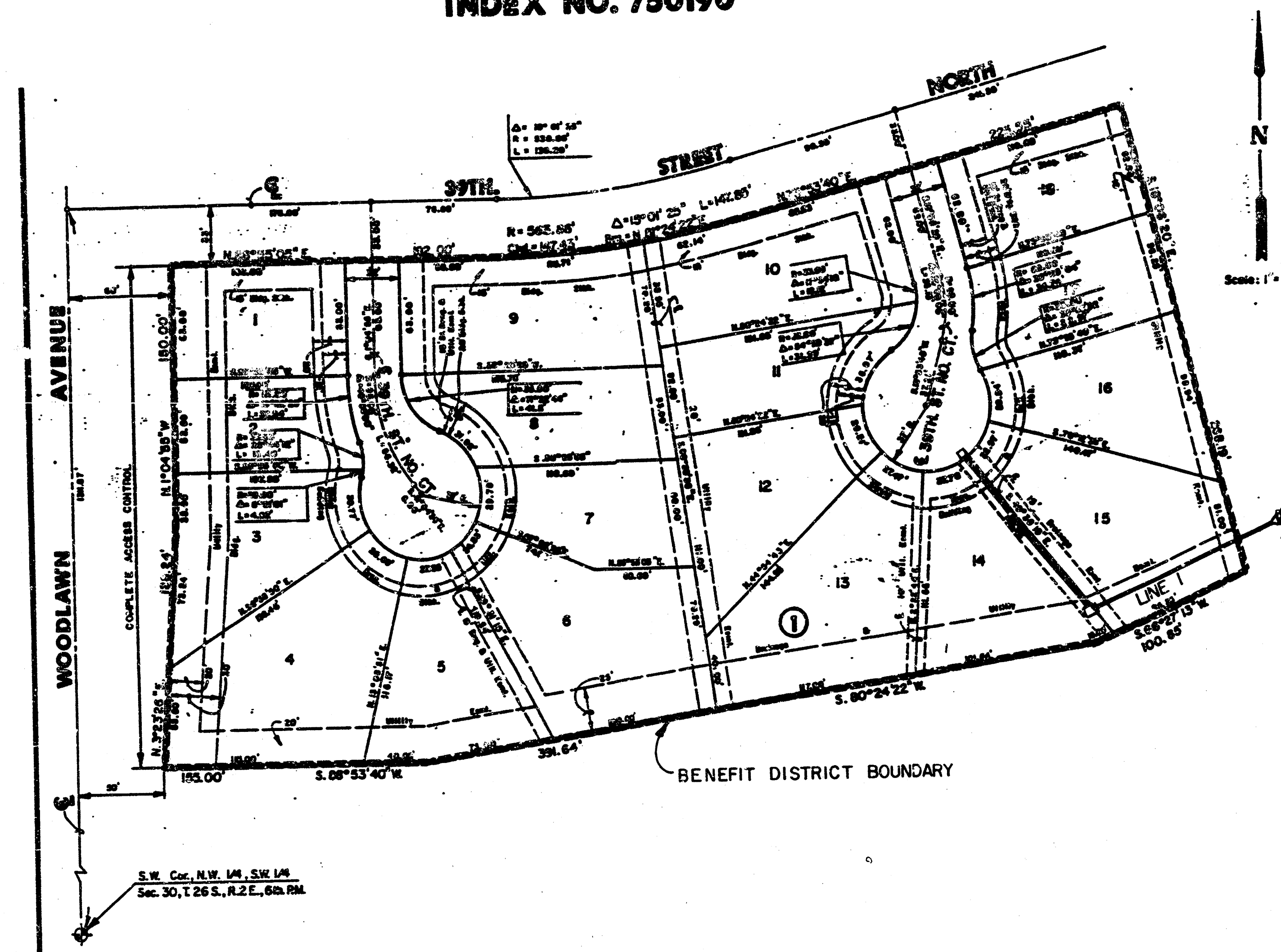
GENERAL NOTES

- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
 - EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
 - CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233
OR 687-2470 (LOCAL WICHITA)
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
- | | |
|-------------------------------------|----------------------|
| SOUTHWESTERN BELL TELEPHONE COMPANY | 1-571-2115 |
| CABLEVISION | 262-4270 OR 263-2061 |
| KPL GAS SERVICE COMPANY | 263-7511 |
| KANSAS GAS & ELECTRIC | 264-1141 |
| CITY OF WICHITA WATER DEPARTMENT | 268-4908 |
| CITY OF WICHITA SEWER MAINTENANCE | 268-4908 |
| ARKLA GAS COMPANY | 942-8350 OR 263-8151 |
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.
 - THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS. INLET DEPRESSIONS NEED TO BE TIED TO CURB, GUTTER, AND PAVING.

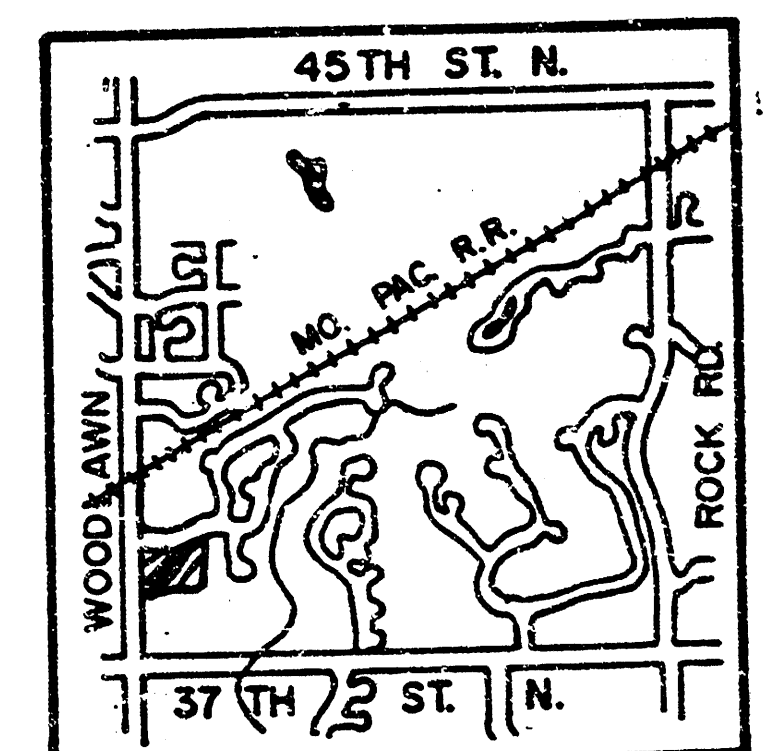
BENCH MARKS

"□" CUT ON N.W. COR. OF R.C.S. ON 39TH ST. NO.
AT S.E. COR. OF NORTHBROOK MEADOW
ELEV. = 163.45 CITY DATUM



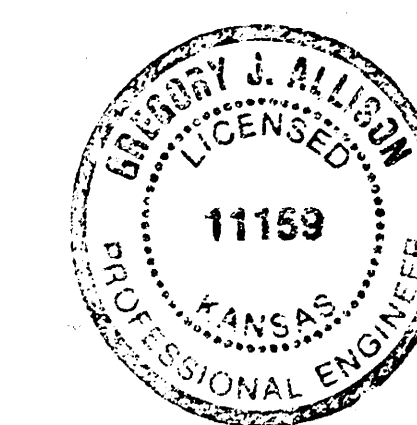
INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Line 1 - Plan & Profile
3	Detail Std. Type IA Curb Inlet
4	Drop Inlet Details
5	Northbrook Meadow 2nd Add. Final Plat



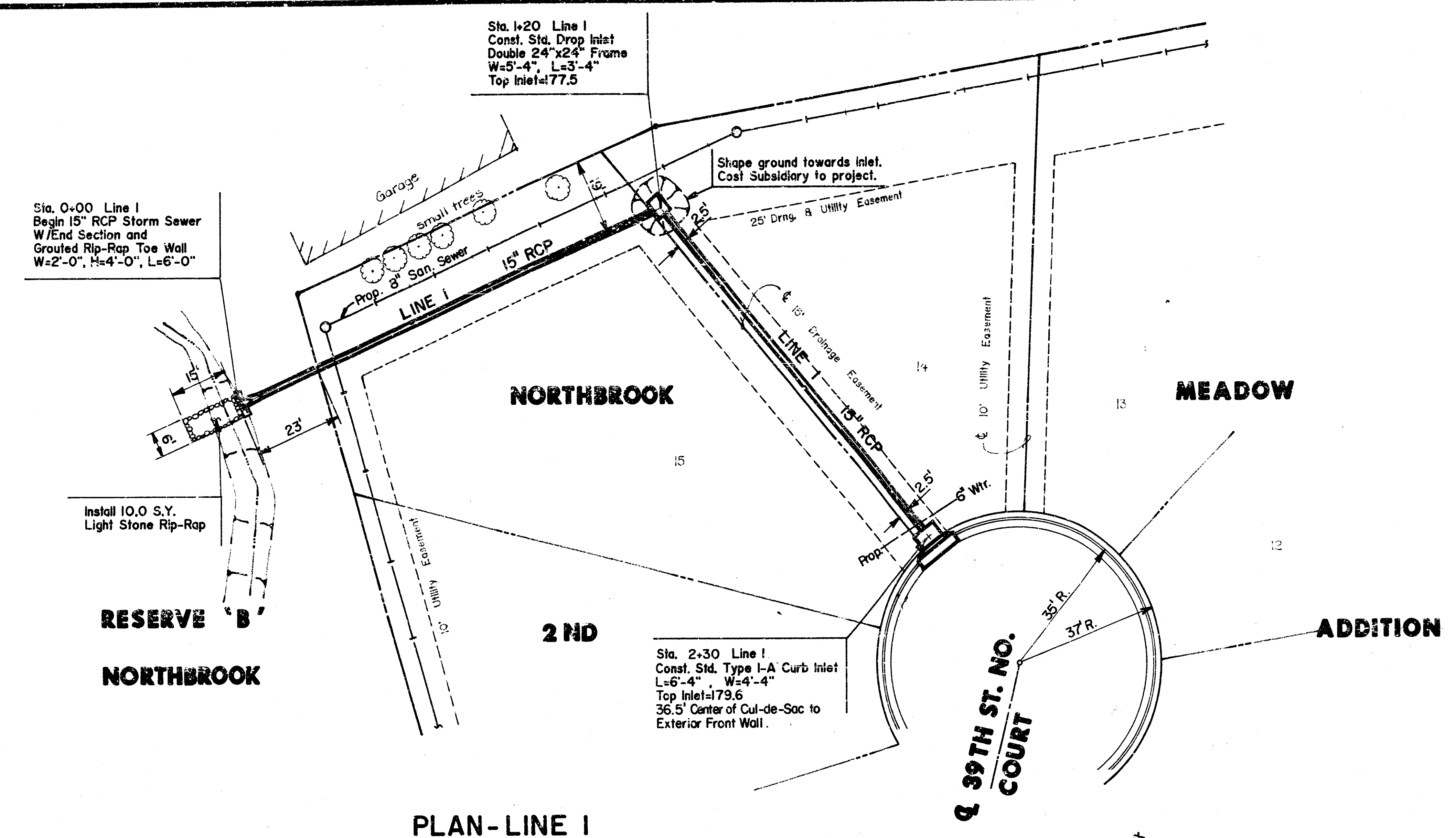
LOCATION MAP

Booked
7-91
MCG



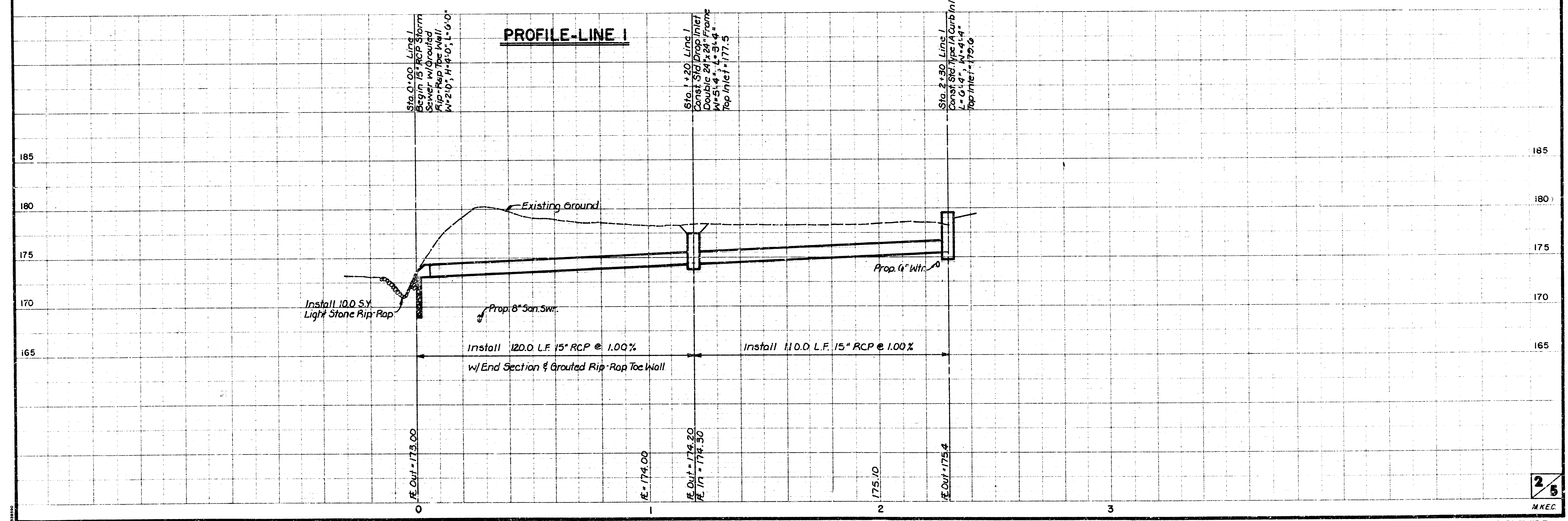
NORTHBROOK MEADOW 2ND. ADDITION STORM WATER SEWER PLANS		Design GJA Drawn by DPR Checked by DSS Date APRIL 1991 Job no.
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		Sheet 1 of 5

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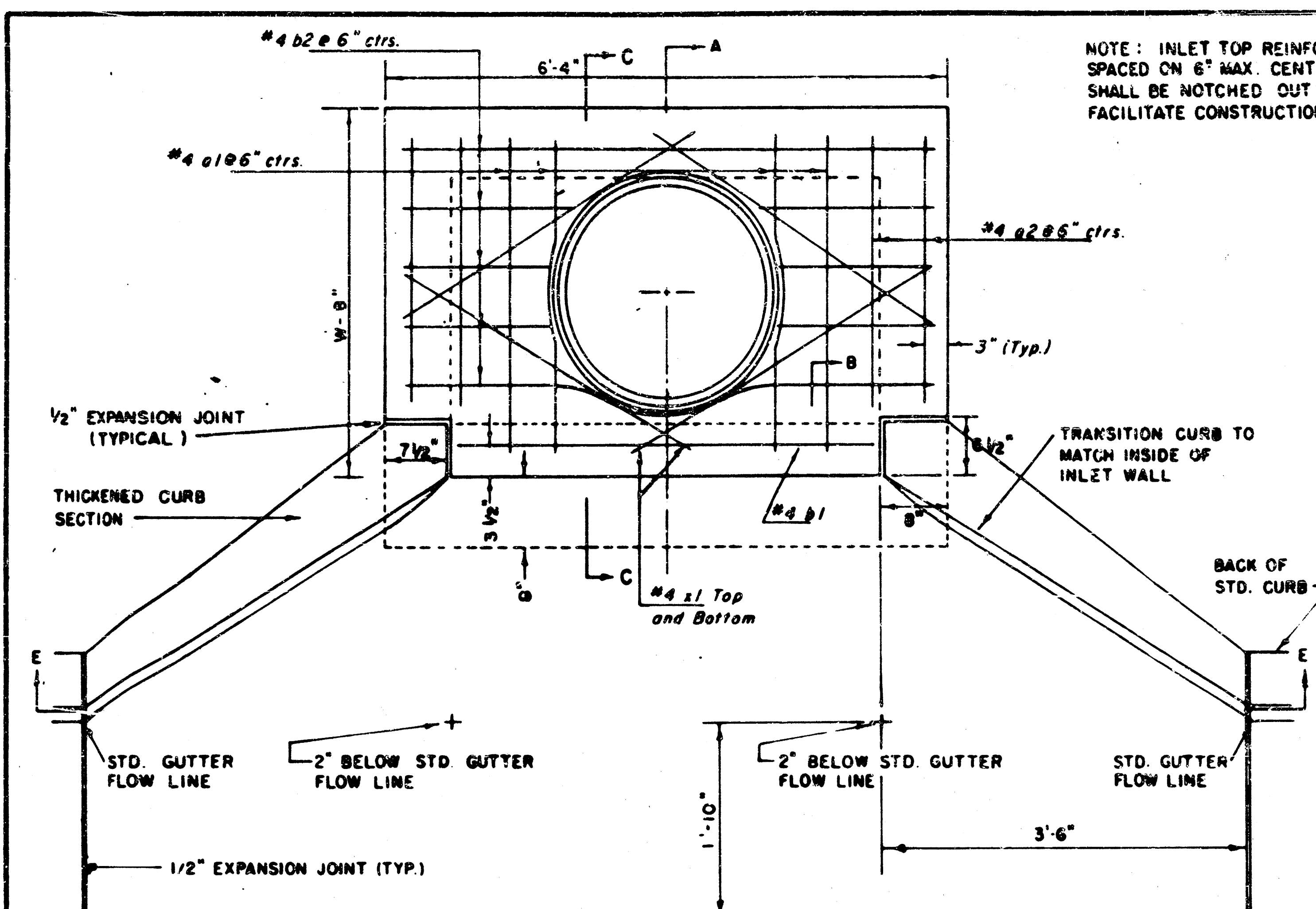


SCALE: 1" = 20' Horiz.
1" = 5' Vert.

PLAN-LINE 1



PROFILE-LINE 1



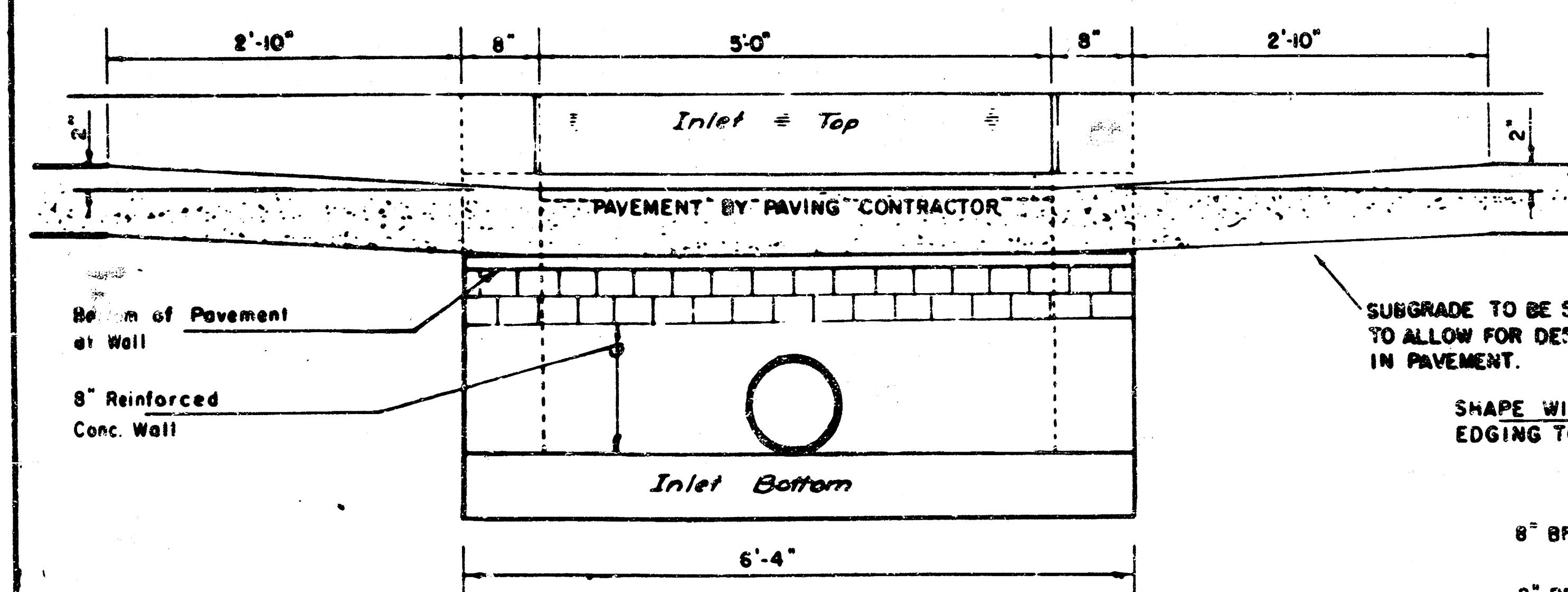
NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

PLAN

PRECAST SLAB AND FLOOR REINFORCING									
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length
a1	#4	6	6'-7"	8	8'-7"	6	10'-7"	6	14'-7"
a2	#4	4	5'-0"	4	8'-0"	4	10'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"
c1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	5'-2"

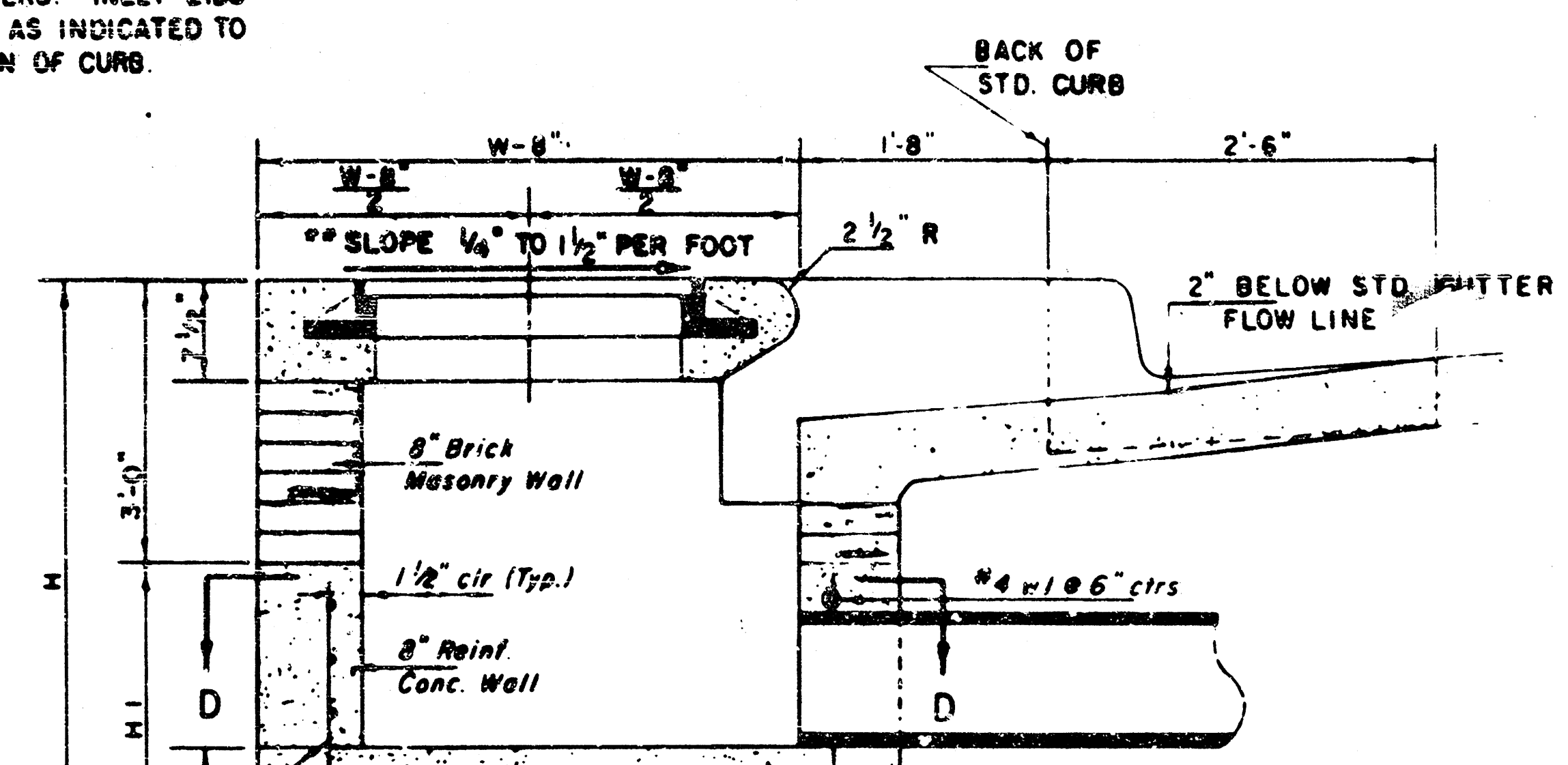
WALL REINFORCING									
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	10	6'-1"	10	6'-1"	10	6'-1"	10	6'-1"
w2	#4	10	4'-1"	10	5'-1"	10	7'-1"	10	8'-1"
w3	#4	32	10	36	10	44	10	48	10

* Field bend or cut Reinforcing as required for clearance.
 ① 4(N1-12") : (N1-12") Round down to nearest 0.5"
 ② N1-3"



SECTION E-E

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX WITH AIR ENTRAINMENT.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'-4" AND H = 7'-0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

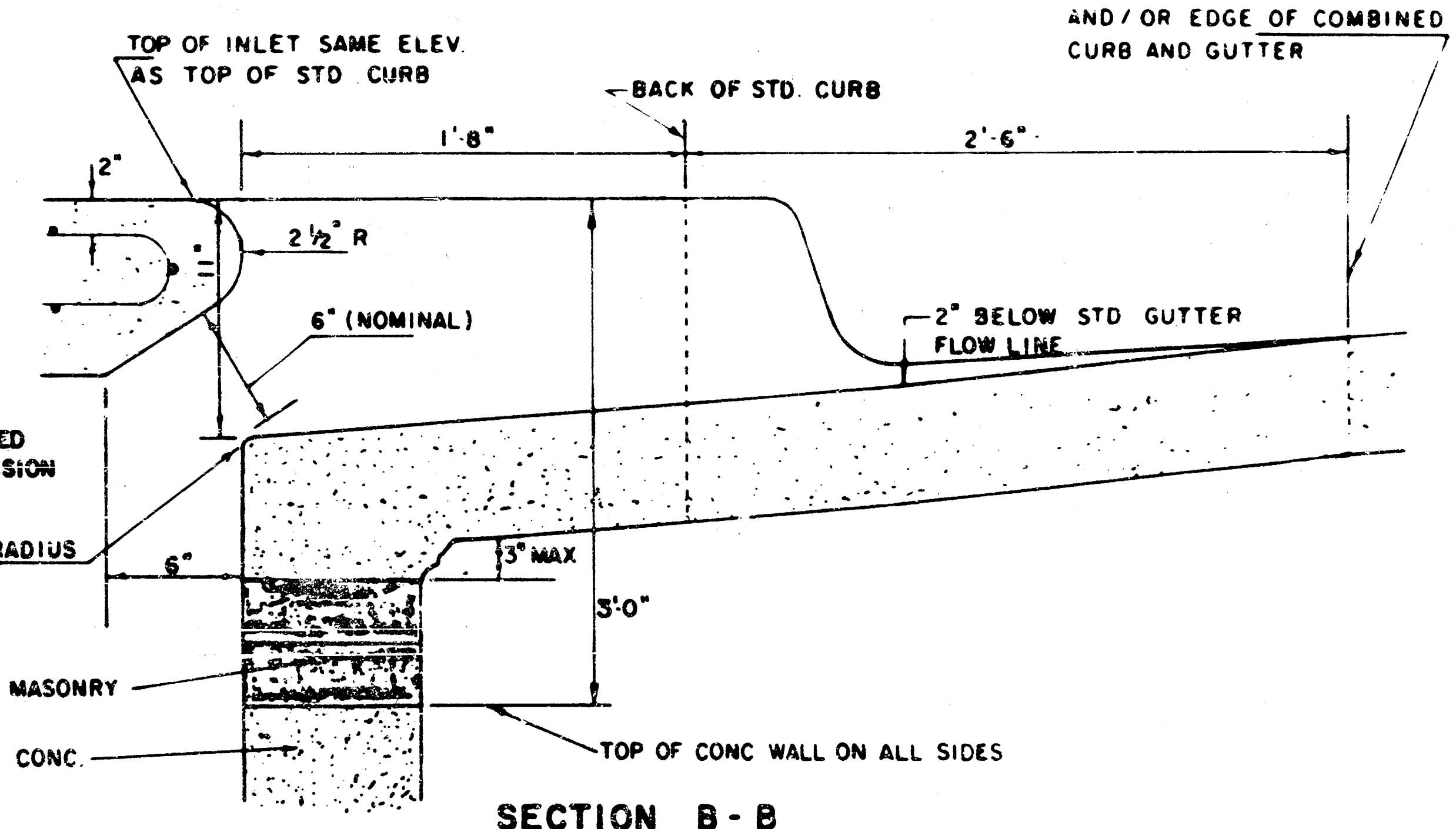
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEARING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

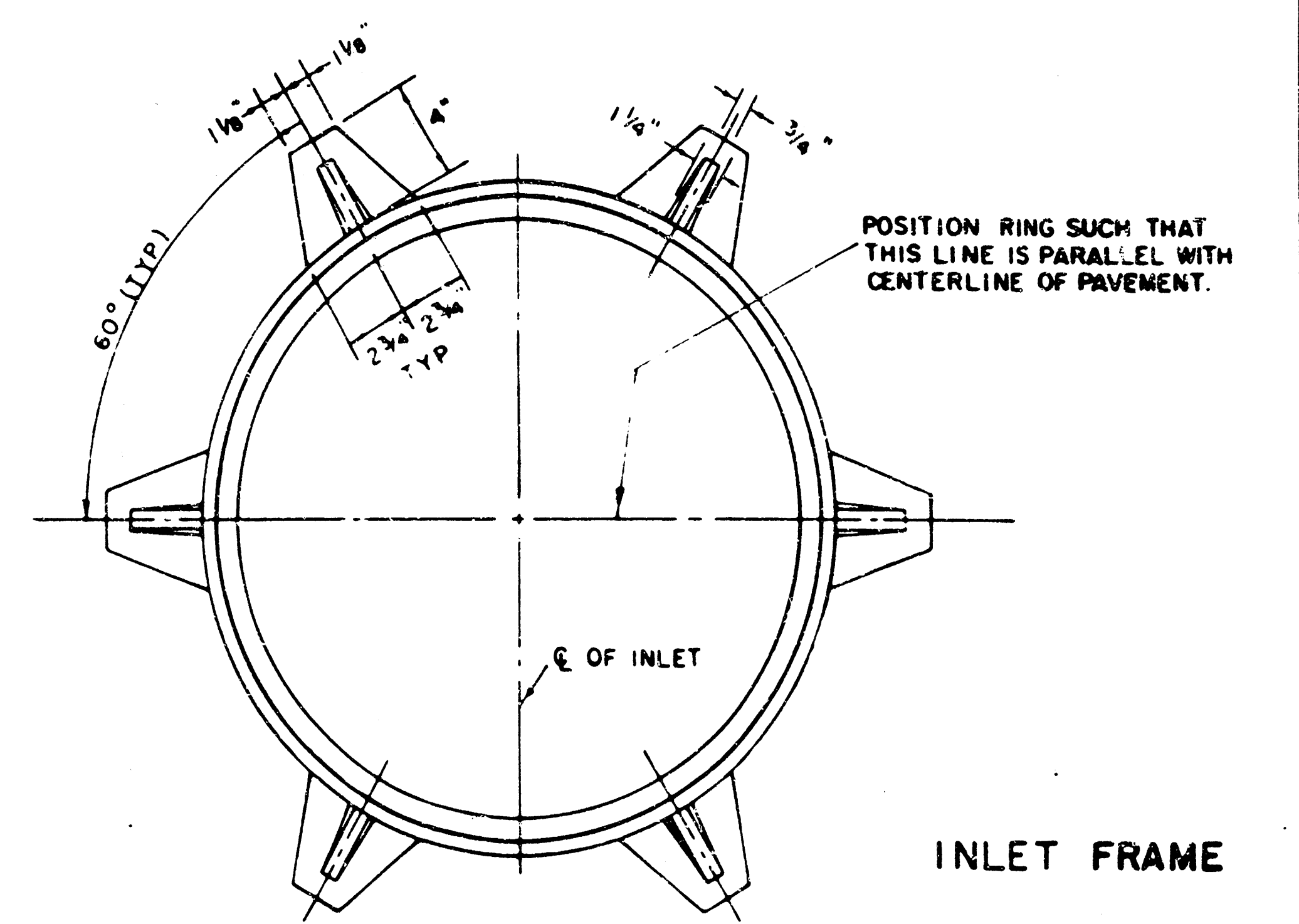
** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.

BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	36" x 64" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	48" x 64" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	58" x 64" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	68" x 64" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	78" x 64" x 7 1/2"	60" & 66"	0.90 ±

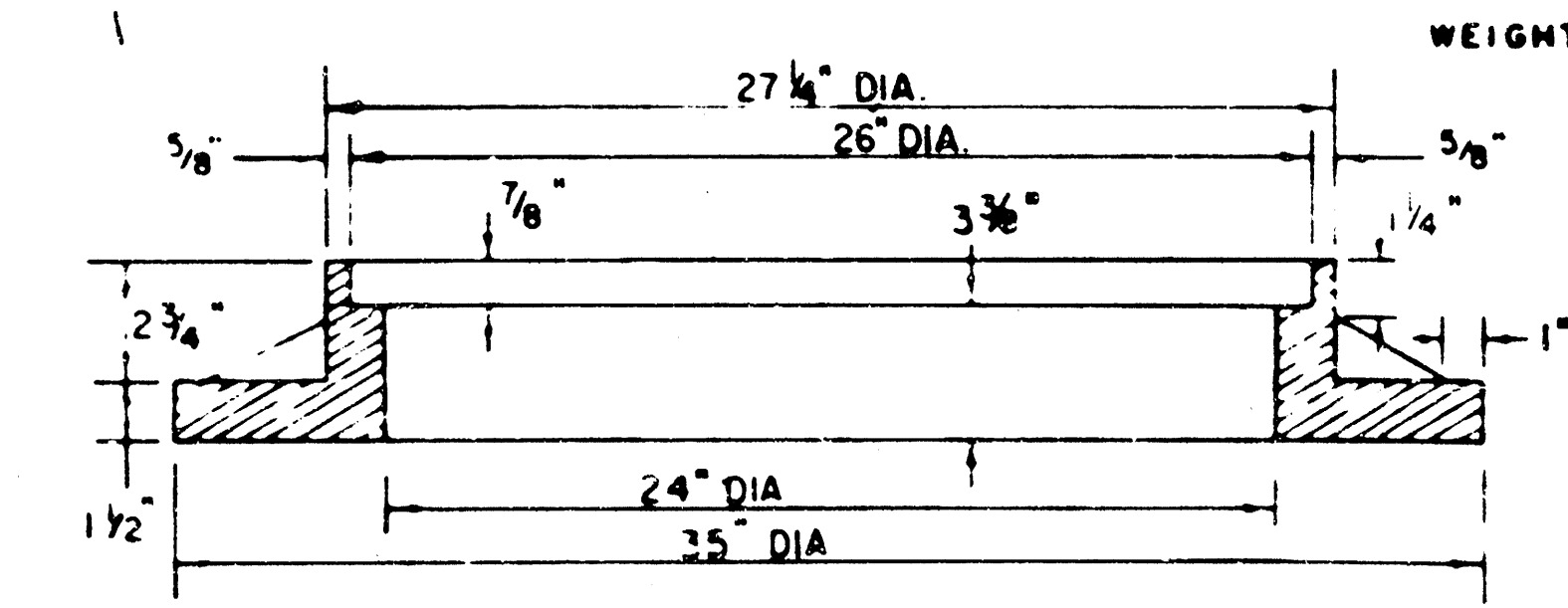


SECTION B-B

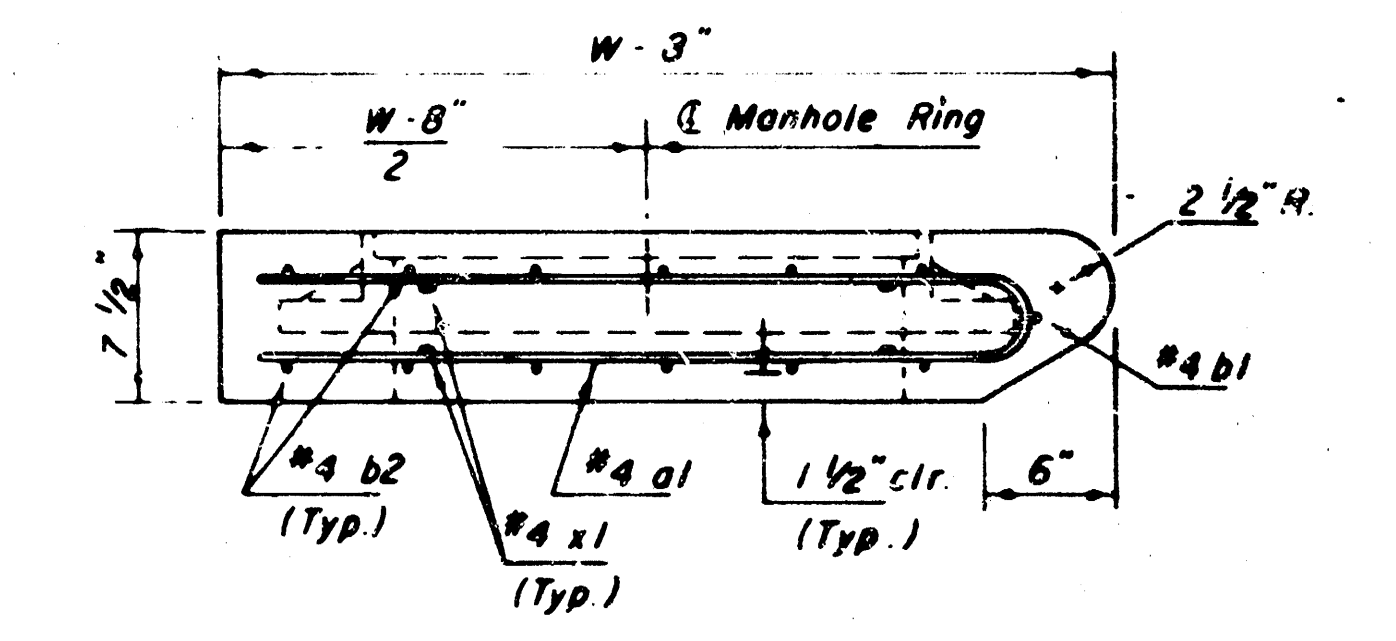


INLET FRAME

WEIGHT = 180 LBS.



SECTION C-C



SECTION D-D

REVISED 11-30-1983
 REVISED 10-31-1984
 Revised 2-16-1989

DETAIL STANDARD TYPE IA CURB INLET
 CITY OF WICHITA, KANSAS
 INLET OPENING = 6" x 5' 0"

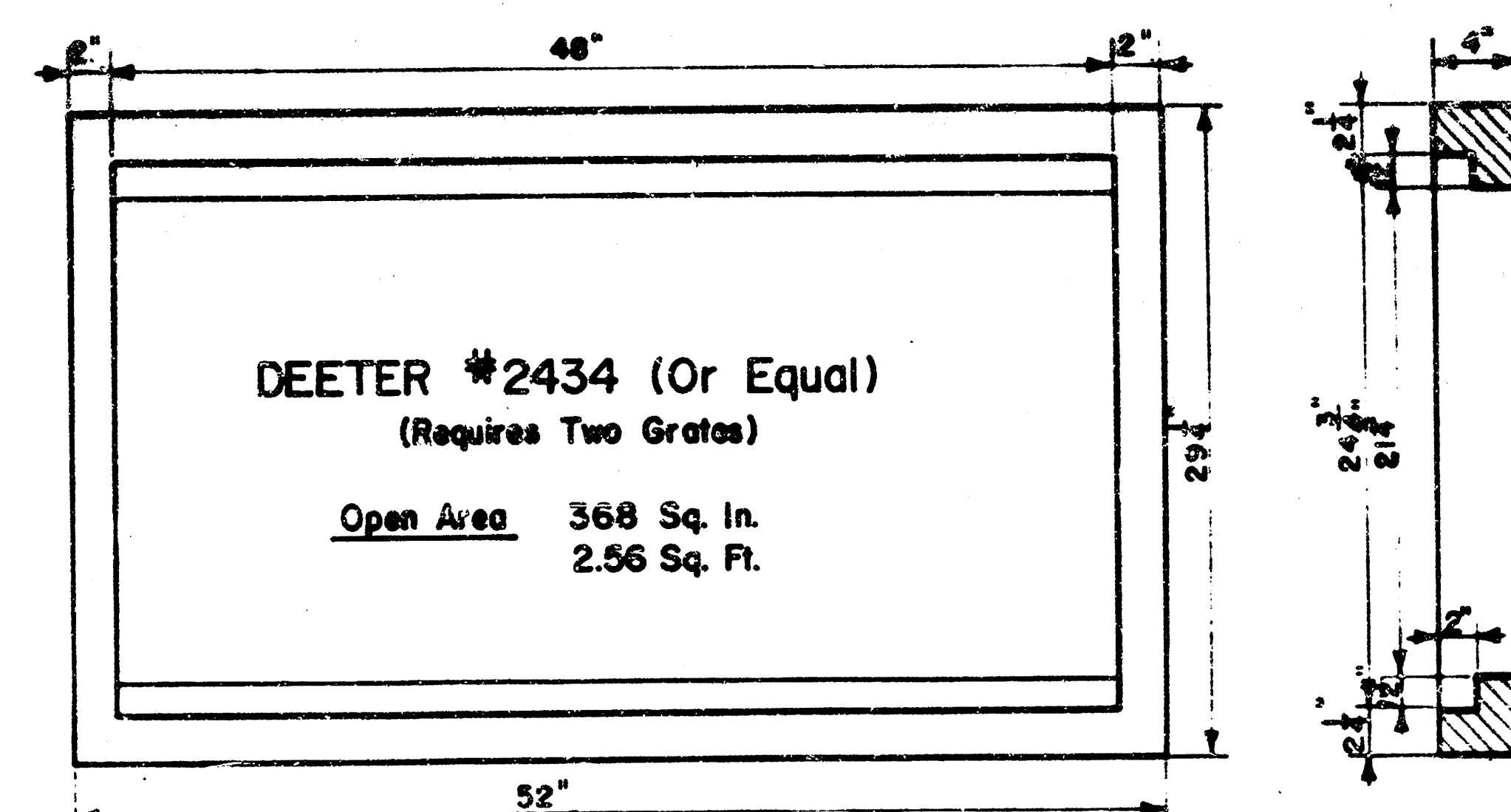
JUNE 1984

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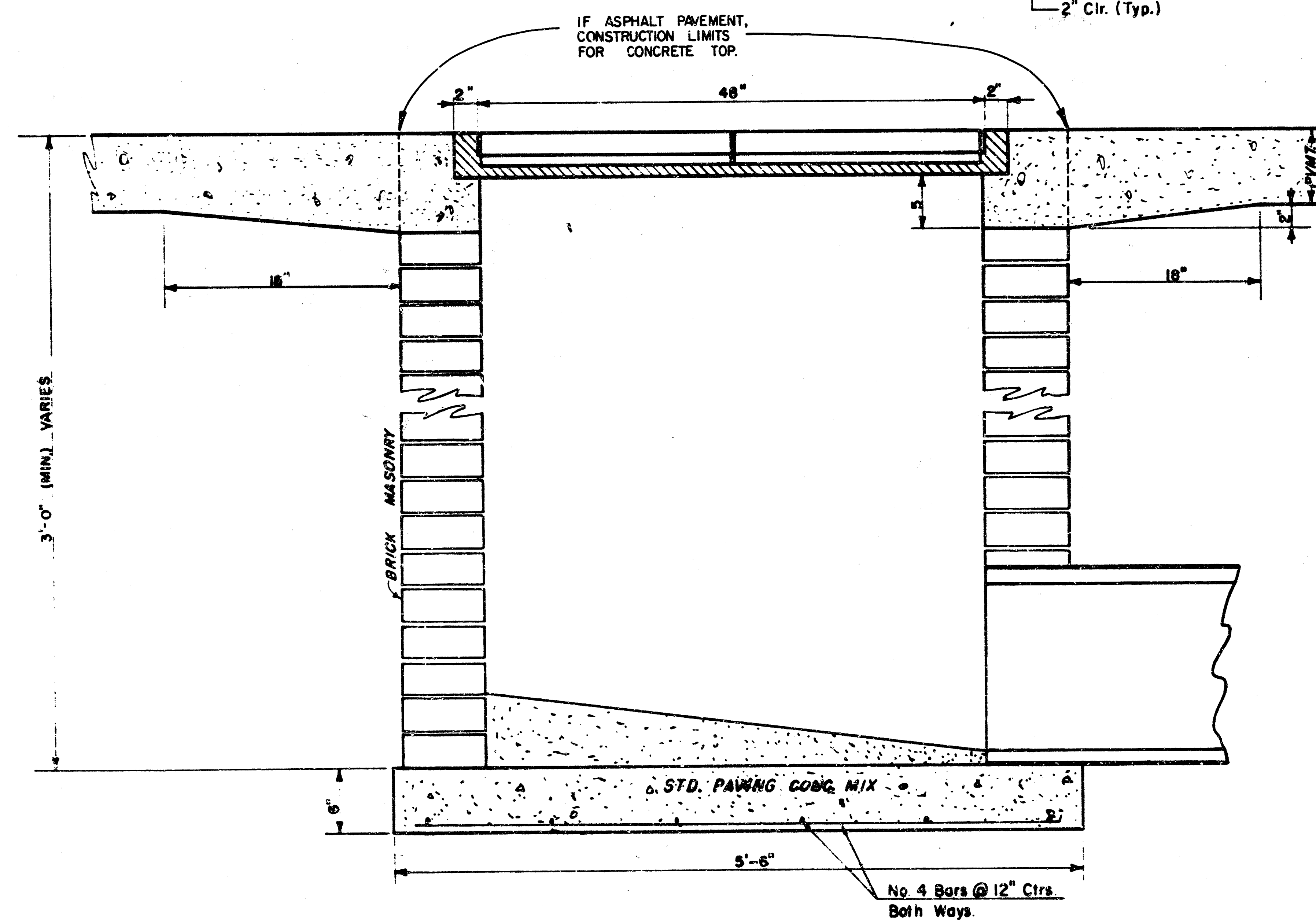
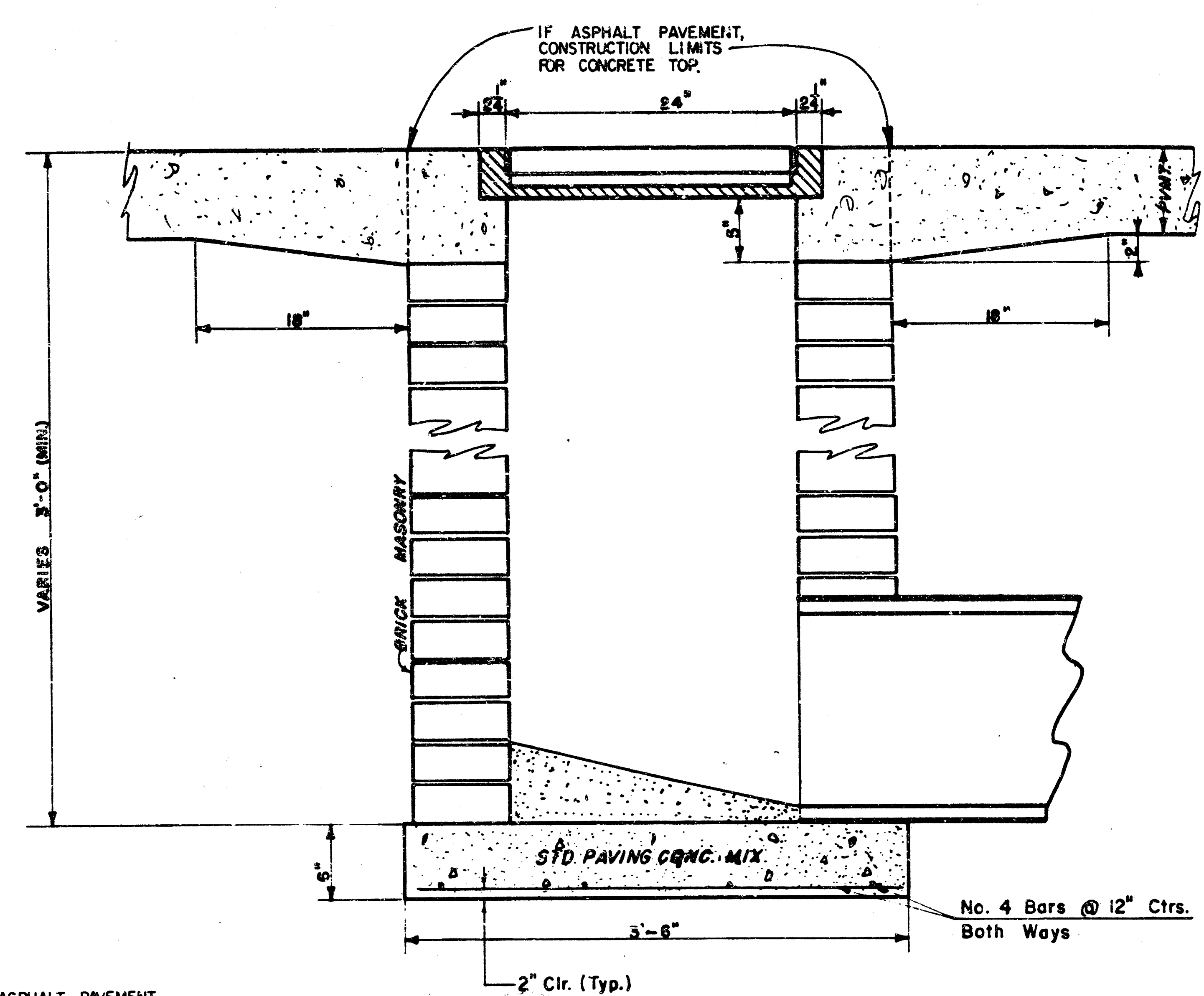
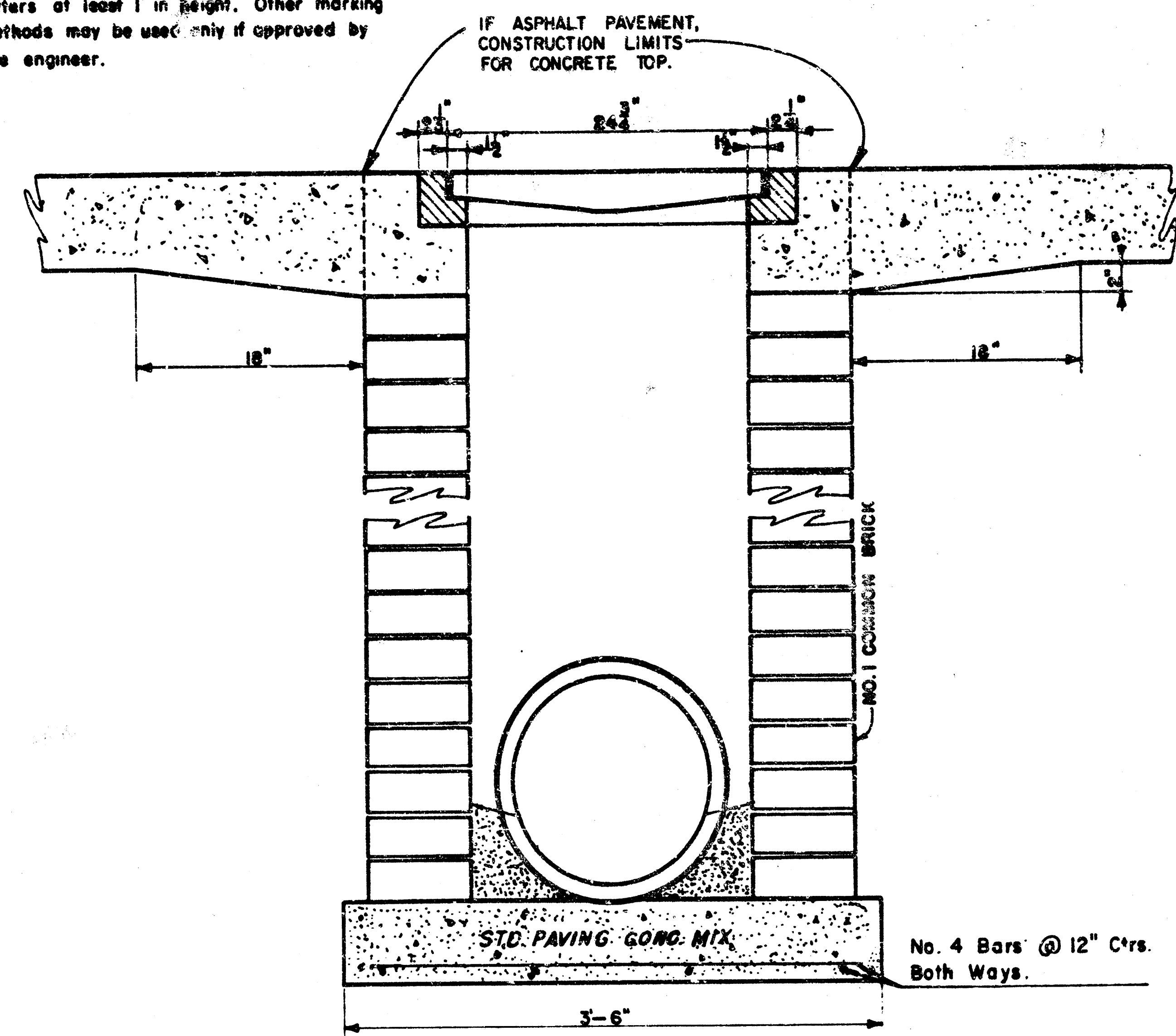
DEETER #2433
(Or Equal)
(Requires One Gate)
Open Area 184 Sq. in.
1.28 Sq. Ft.

GRATE

24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail



ORIFICE EQUATION		
Q = CA $\sqrt{2gh}$ C = 0.60		
h (Depth)	#2433 (single)	#2434 (double)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

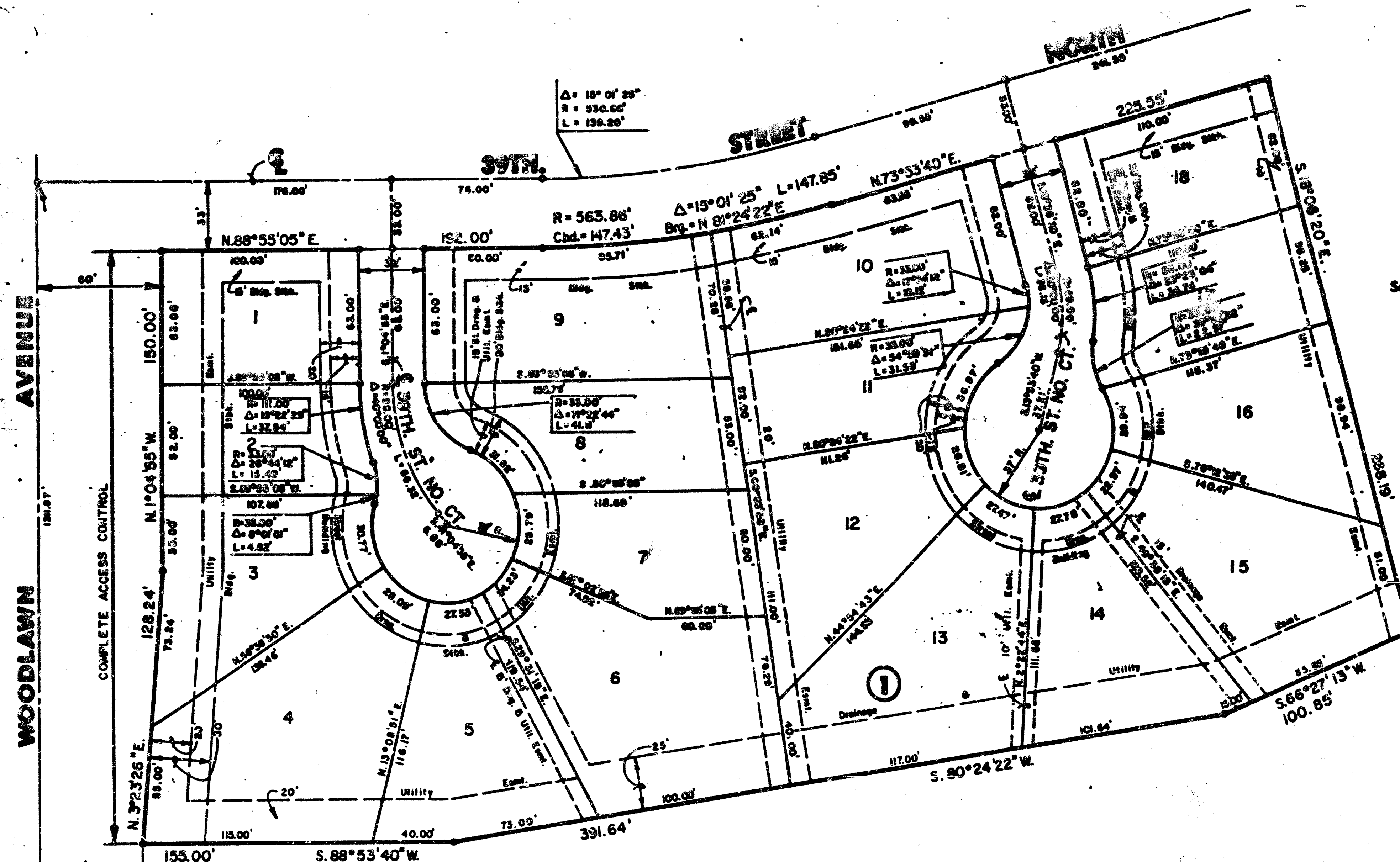
DROP INLET DETAILS

Scale: 1-1/2" = 1'-0"

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FINAL PLAT OF NORTHBROOK MEADOW 2ND. ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



S.W. Cor., N.W. 1/4, S.W. 1/4
Sec. 30, T.26 S., R.2 E., 6th PM.

MIN. PAD ELEVATIONS (Minimum Opening)
LOTS 13, 14, 15, BLOCK 1 - (180.6 CITY DATUM)
(1368.0 MSL.)
LOT 16, BLOCK 1 - (181.0 CITY DATUM)
(1358.4 MSL.)
LOTS 17 & 18, BLOCK 1 (181.6 CITY DATUM)
(1368.0 MSL.)

BENCH MARK

"□" CUT ON N.W. COR. OF R.C.B. ON 39TH ST. NO.
AT S.E. COR. OF NORTHBROOK MEADOW
ELEV. = 183.45 CITY DATUM

I, Kenneth H. Bauman, a Civil Engineer and Land Surveyor in Kansas, do hereby certify that I have been in reasonable charge of surveying and platting of "NORTHBROOK MEADOW 2ND ADDITION", an addition to Wichita, Sedgewick County, Kansas, platted into lots, blocks, and streets, the same being accurately set forth in the accompanying plat and described hereafter.

A plat of Lot 62, Block 1, NORTHBROOK ADDITION, an addition to Wichita, Sedgewick County, Kansas.

All lots, blocks, streets, easements and building setbacks located within the above described property are being vacated and replatted by virtue of K.S.A. 12-512(b).

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 2nd day of November, 1990.

Kenneth H. Bauman, P.E., K.S.A. 1922
115-Kansas Engineering Consultants, P.A.
3200 N. Rock Road, Building 1000
Wichita, KS 67260



Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers and Land Surveyors Certificate have caused the same to be surveyed and platted into lots, a block and streets the same to be known as "NORTHBROOK MEADOW 2ND ADDITION", an addition to Wichita, Sedgewick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for construction and maintenance of public utilities, drainage, and streets are hereby granted. All easement rights of access over and across the west line of Lots 1 through 4 inclusive, Block 1 are hereby granted to the City of Wichita. Minimum pad elevations are as indicated on the face of the plat.

PORTER AND PLUMER MOSES
a Kansas General Partnership
J.M. Porter Enterprises, Inc.,
Partner

Plumer Construction, Inc.,
Partner

By: Mark E. Porter Keith E. Plumer
Mark E. Porter, President Keith E. Plumer, President

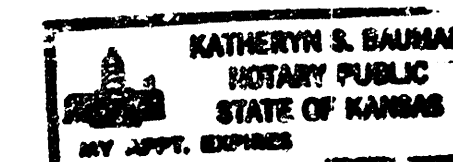
Being all the partners of said partnership

STATE OF KANSAS
SEDGWICK COUNTY

Be it remembered that on this 31st day of October, 1990, before me a Notary Public in and for said State and County, came Keith E. Plumer, President of Plumer Construction, Inc., Partner, and Mark E. Porter, President of J. M. Porter Enterprises, Inc., Partner, being all of the partners of Porter and Plumer Moses, a partnership, on behalf of the partnership and on behalf of the corporation, to me personally known to be the same persons who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof, I have hereunto set my hand and affixed my notarial seal the day and year above written.

Anthony J. Bauman, Notary Public

My Appointment Expires: 1-24-91



This plat of "NORTHBROOK MEADOW 2ND ADDITION" has been submitted to and approved by the Wichita-Sedgewick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 21st day of June, 1990.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

John J. Bauman, Acting Chairman

Merlin Skrod, Secretary
NORTH S. LPOUT

This plat approved and all dedications upon hereof, as approved by the City Council of the City of Wichita, Kansas, on the 20th day of November, 1990.

John J. Bauman, Mayor

Pat Bauman, Deputy City Clerk

Pat Bauman, Deputy City Clerk

Entered on transfer record this 26th day of December, 1990.

John J. Bauman, County Clerk

John J. Bauman, County Clerk

STATE OF KANSAS

SEDGWICK COUNTY

This is to certify that this instrument was filed for record in the Register of Deeds office this 26th day of December, 1990.

Pat Bauman, Register of Deeds

Ed Reed, Deputy

Ed Reed, Deputy

I, William L. Oliver, Jr., mortgagee on the above described property, do hereby consent to the plat of "NORTHBROOK MEADOW 2ND ADDITION".

William L. Oliver, Jr.

WILLIAM L. OLIVER, JR.

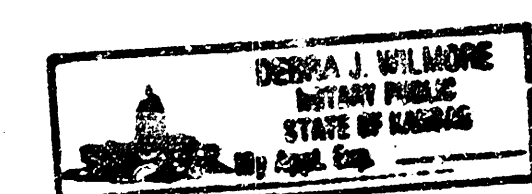
STATE OF KANSAS

SEDGWICK COUNTY

Be it remembered that on this 5th day of November, 1990, before me a Notary Public in and for said State and County, came William L. Oliver, Jr., to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof, I have hereunto set my hand and affixed my notarial seal the day and year above written.

William L. Oliver, Jr., Notary Public

My Appointment Expires: 7-19-93



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