

STORM SEWER PLANS FOR S.W.S. NO. 280 WATERFORD NORTH THIRD PROJECT NO. 468-76-245-81434-000-000-001

CITY OF WICHITA, KANSAS
MIKE LINDEBAK, CITY ENGINEER
MARCH, 1985

GENERAL NOTES

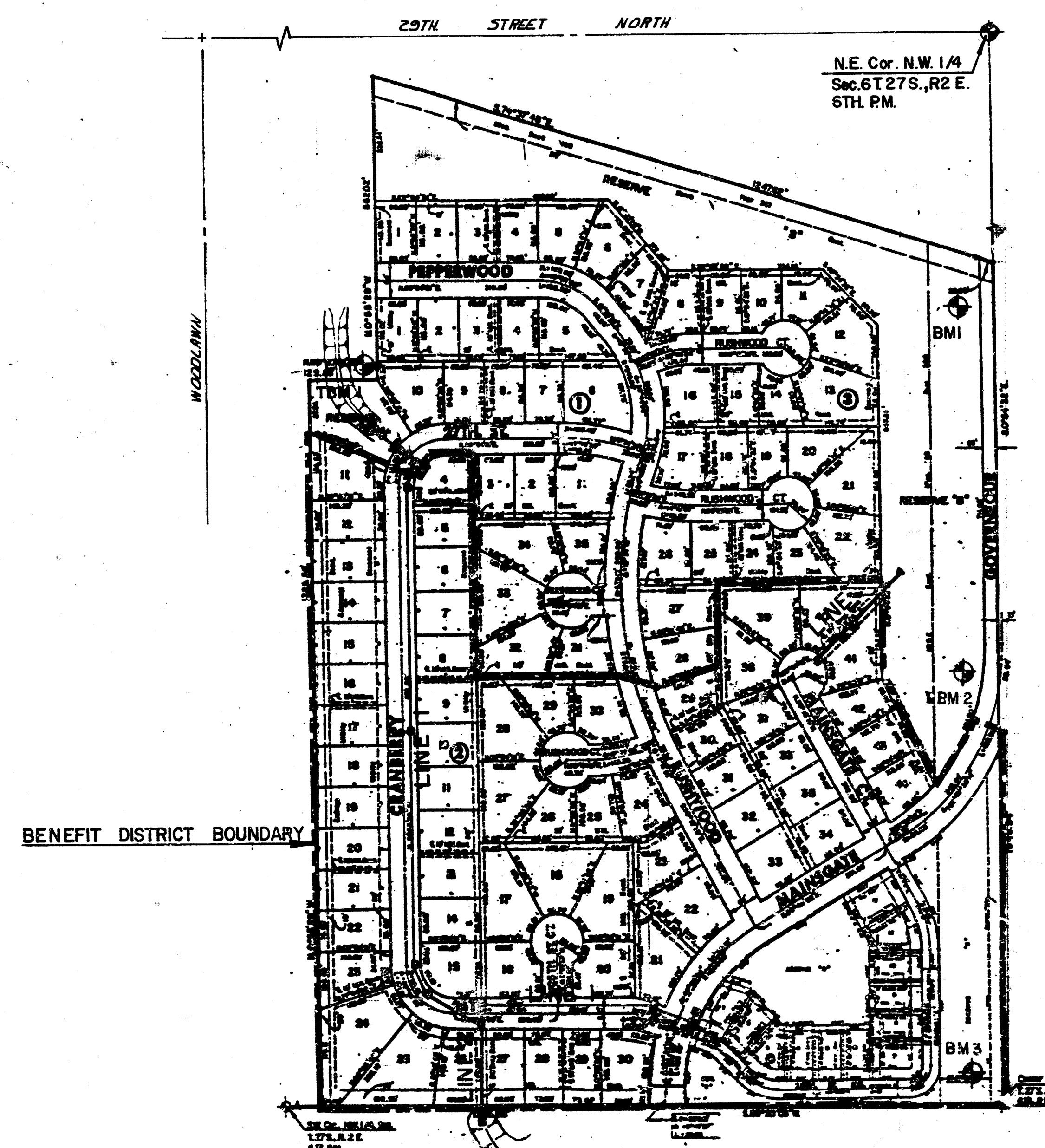
1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
5. TREES TO BE REMOVED ARE MARKED (X). ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
6. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
7. 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.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE COMPANY	268-2256
CABLEVISION	269-3340
GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	261-6375
KANSAS ONE-CALL	1-800-344-7233

BENCH MARKS

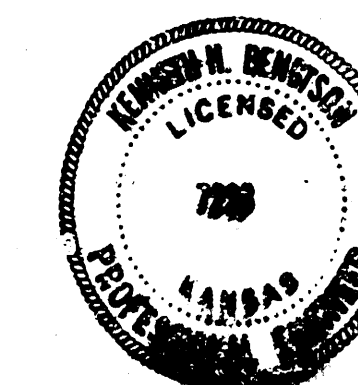
- B.M. #1 Railroad spike west face of west pole first N-pole south of 29th.
Elev. = 187.88
- B.M. #2 Railroad spike west face of west pole second N-pole south of 29th.
Elev. = 191.85
- B.M. #3 Railroad spike west face of west pole third N-pole south of 29th.
Elev. = 195.71
- T&M #1 South rim of existing manhole
Elev. = 177.36



INDEX TO DRAWINGS

SHEET NO.	DISCRIPTION
1	TITLE SHEET
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6	LINE 2
7	LINE 3
8-9	TYPE 1A CURB INLET DETAILS
10	AREA / INLET DETAILS
11	REINFORCED CONCRETE MANHOLES
12-13	FINAL PLAT

*As BUILT
2/86
Greene-*



WATERFORD NORTH THIRD
ADDITION
S.W.S. NO. 280
PROJECT NO:
468-76-245-81434-000-000-001

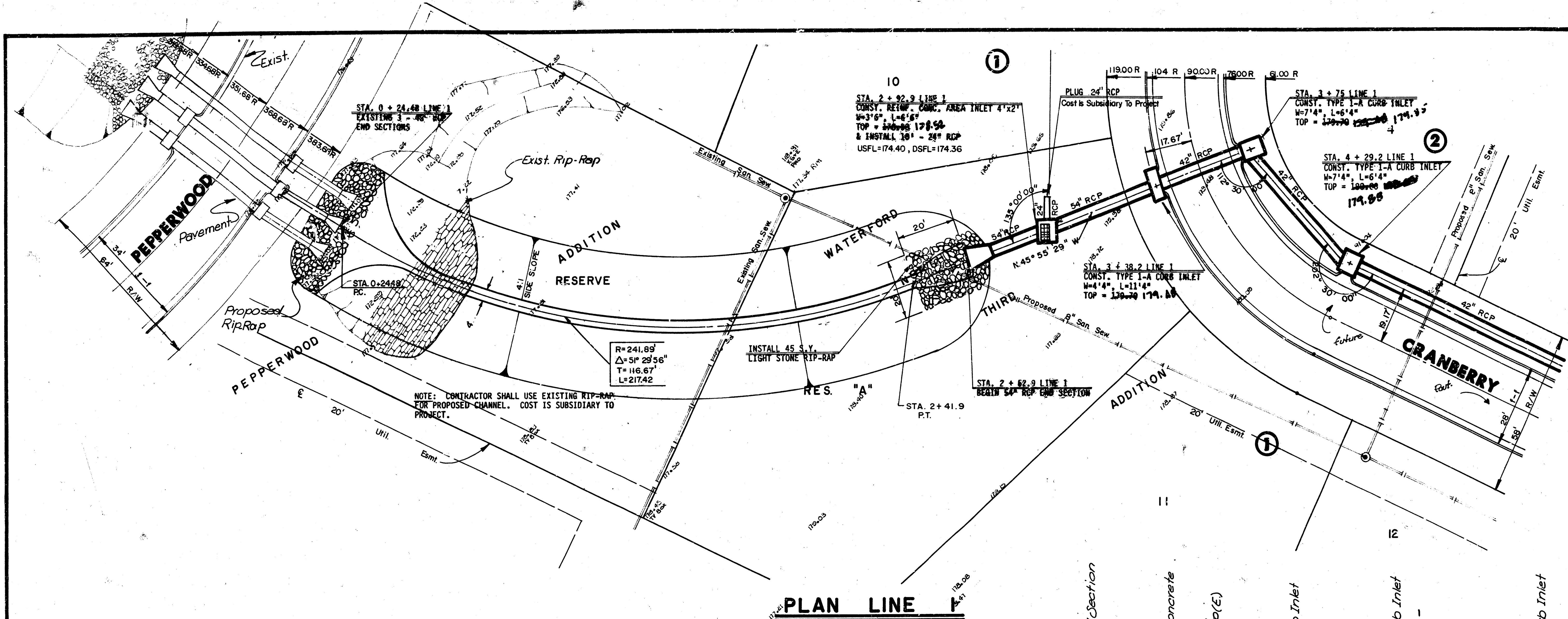
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226

682-6561

Design	DES
Drawn by	DLH
Checked by	HLB
Date	MARCH, 1985
Job no.	
Sheet	1 of 14

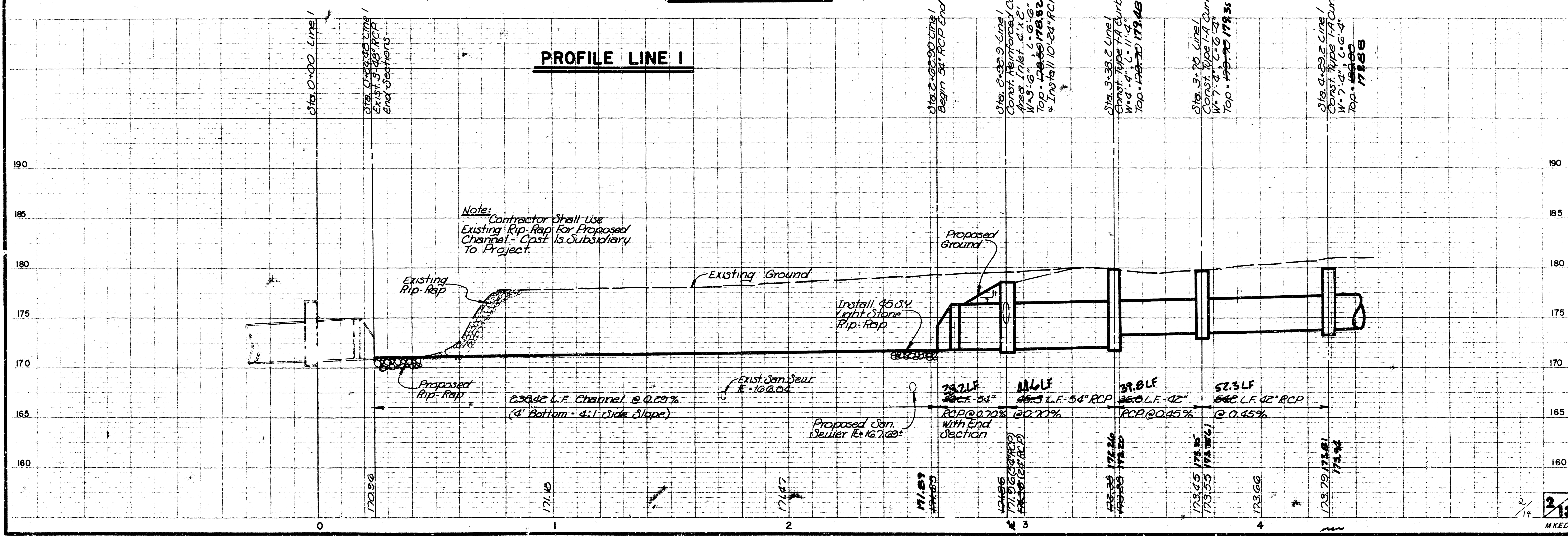
WATERFORD NORTH THIRD ADDITION
STORM WATER SEWER NO. 280
PROJ. NO. 46876-245-81434 -000000-001

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



*AB BUILTS
2/86
GREENE*

PROFILE LINE 1

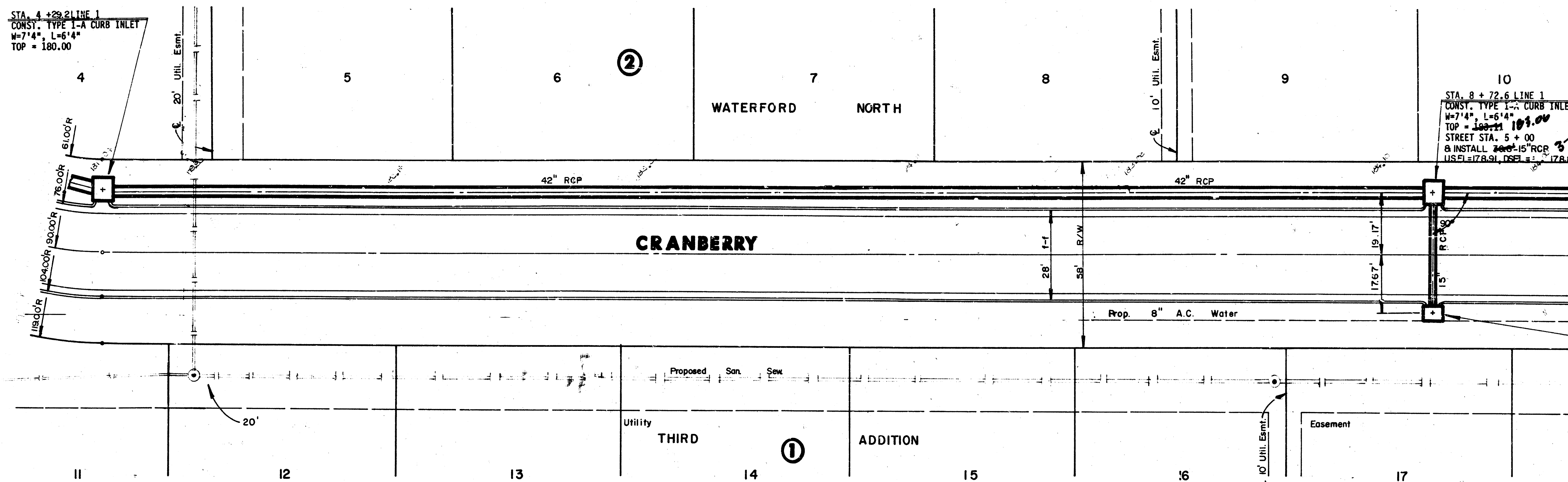


WATERFORD NORTH THIRD ADDITION
STORM WATER SEWER NO. 280
PROJ. NO. 468-76-245-81434 -000006-001

STA. 4 + 28.2 LINE 1
CONST. TYPE 1-A CURB INLET
W=7'4", L=6'4"
TOP = 180.00

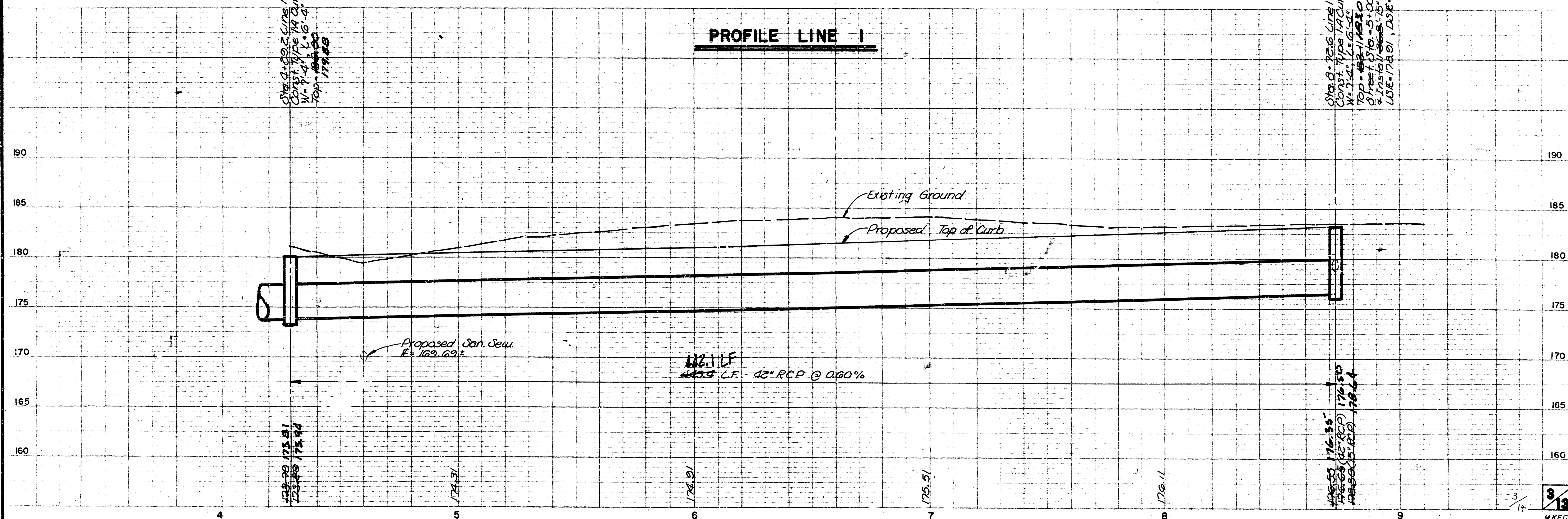
STA. 8 + 72.6 LINE 1
CONST. TYPE 1-A CURB INLET
W=7'4", L=6'4"
TOP = 179.11
STREET STA. 5 + 00
8 INSTALL 36" RCP
USE 178.91, DSE = 178.90

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



PLAN LINE 1

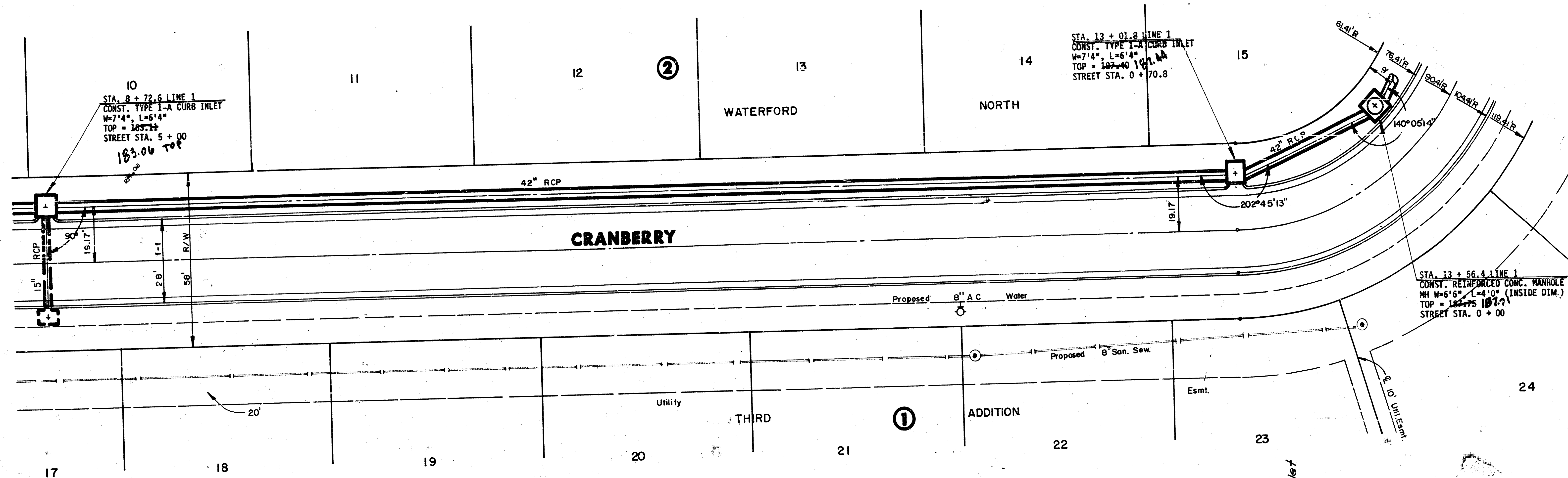
PROFILE LINE 1



As Built
2/26
Greener

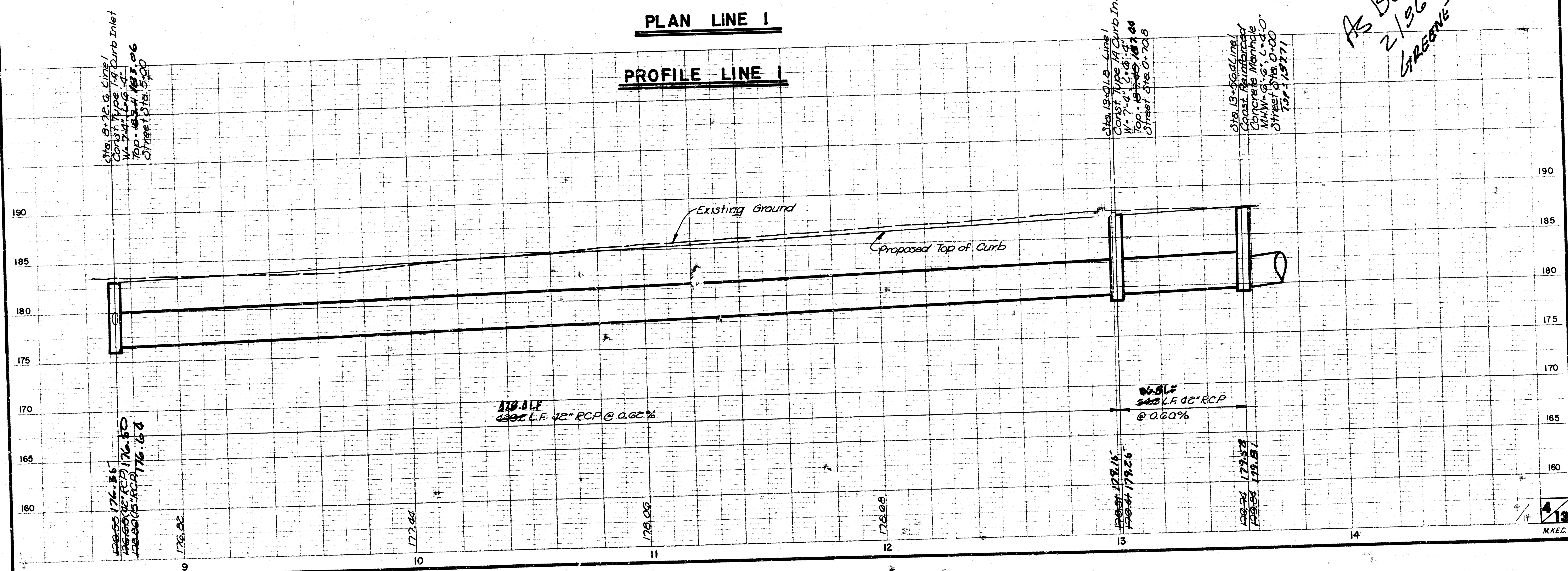
WATERFORD NORTH THIRD ADDITION
STORM WATER SEWER NO. 280
PROJ. NO. 46876-245-81434 -000-000-001

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

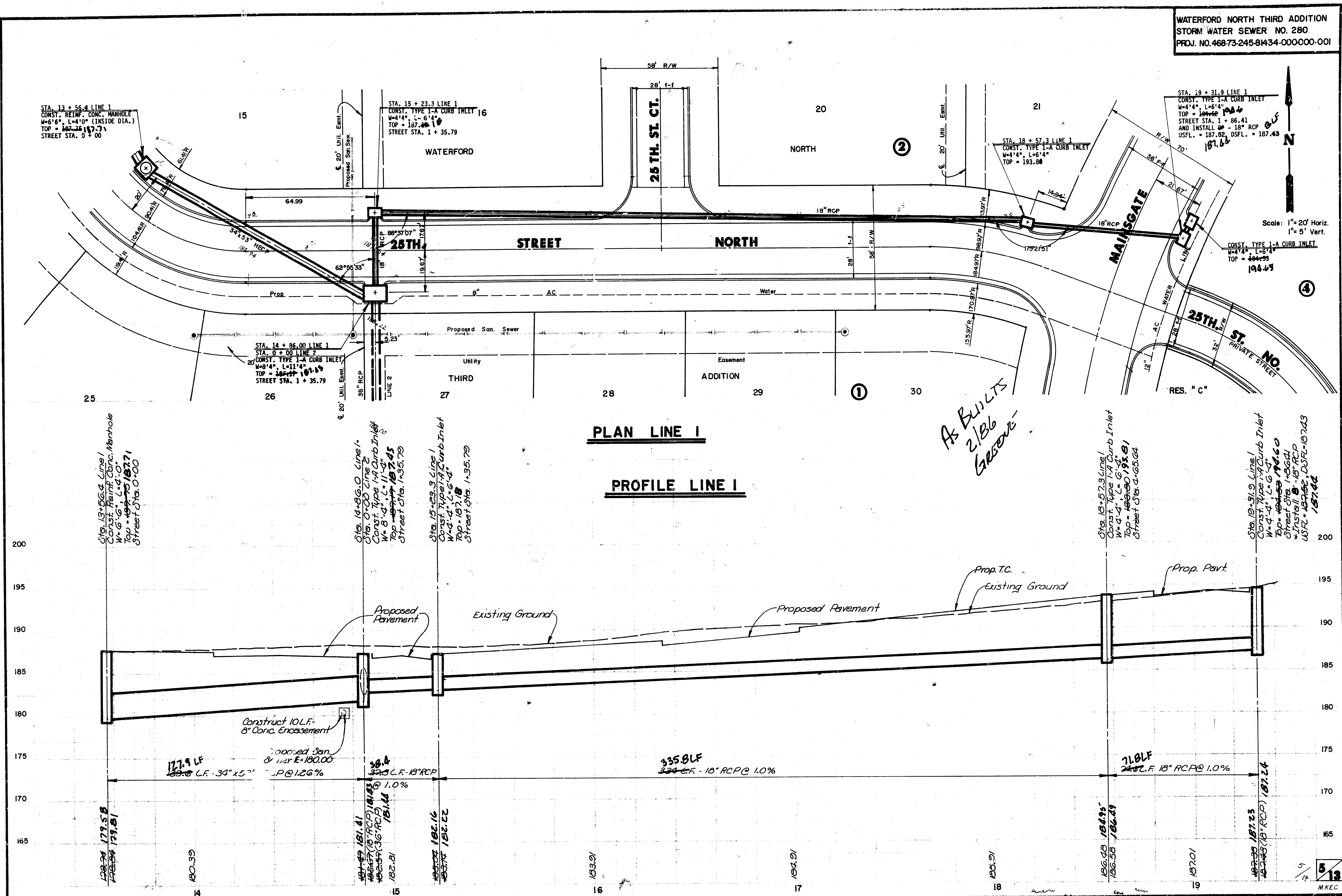


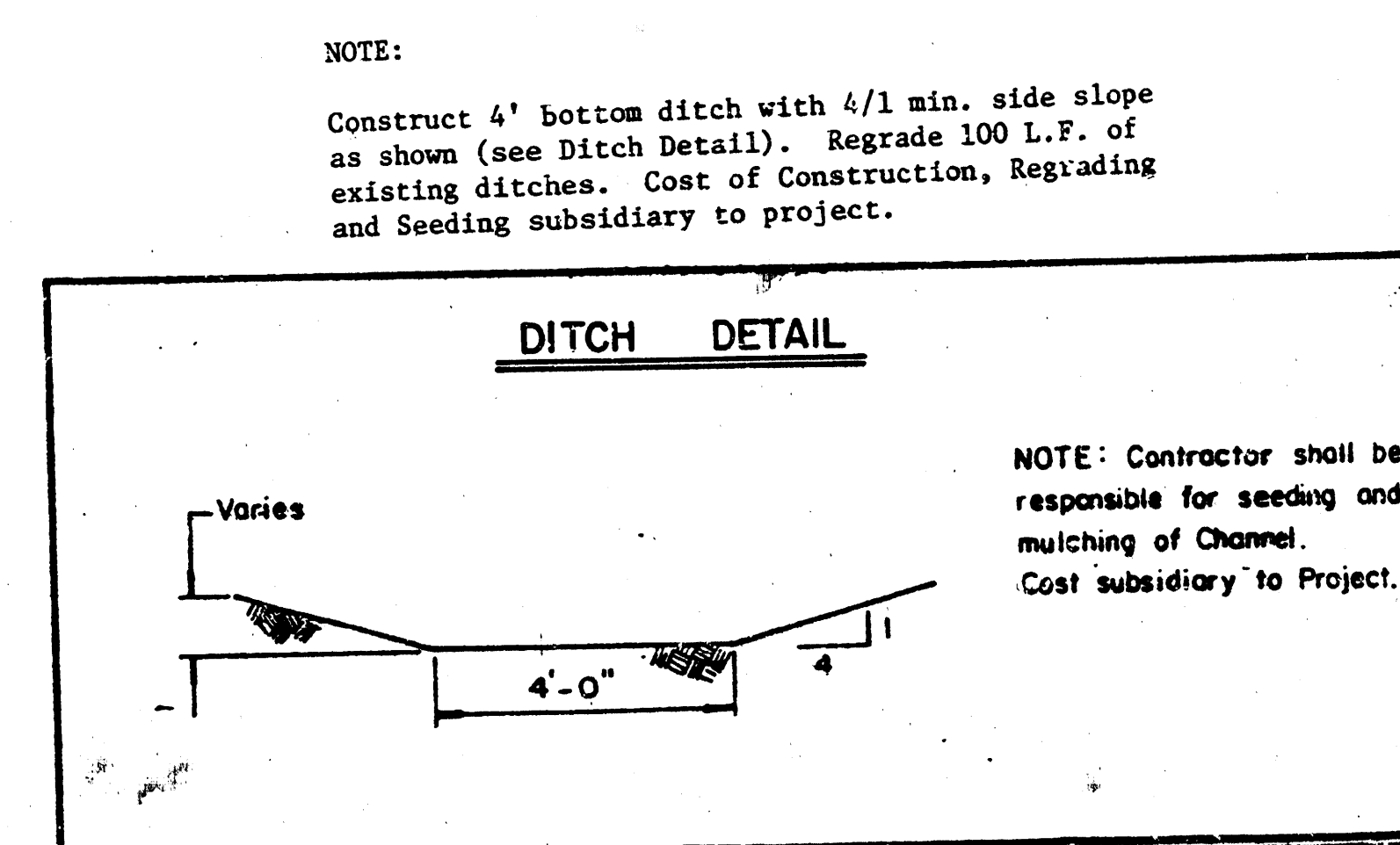
PLAN LINE 1

PROFILE LINE 1



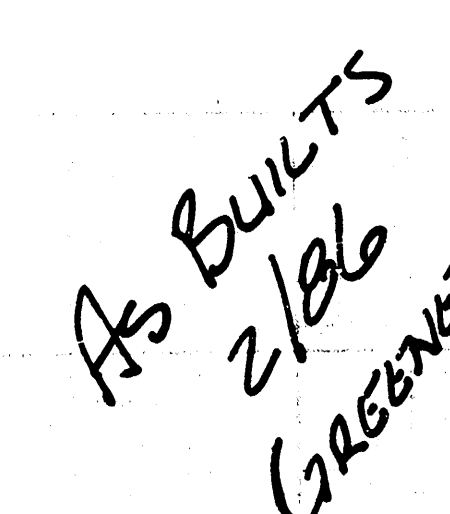
AS BUILT
2/36
GREENE

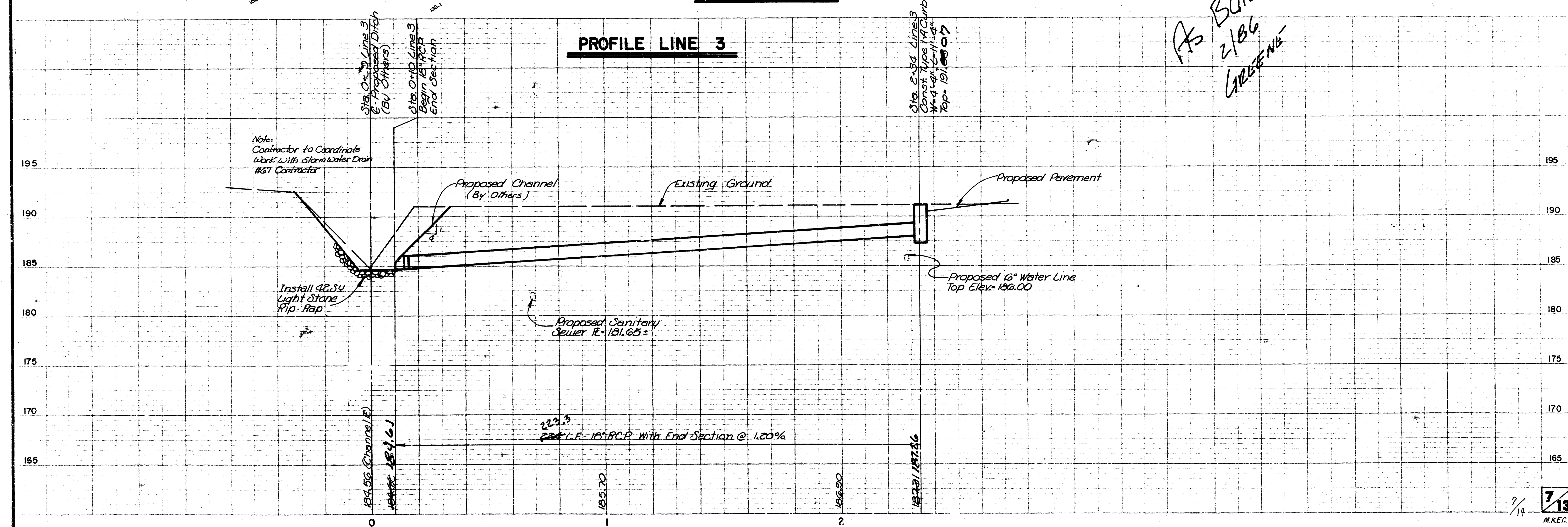
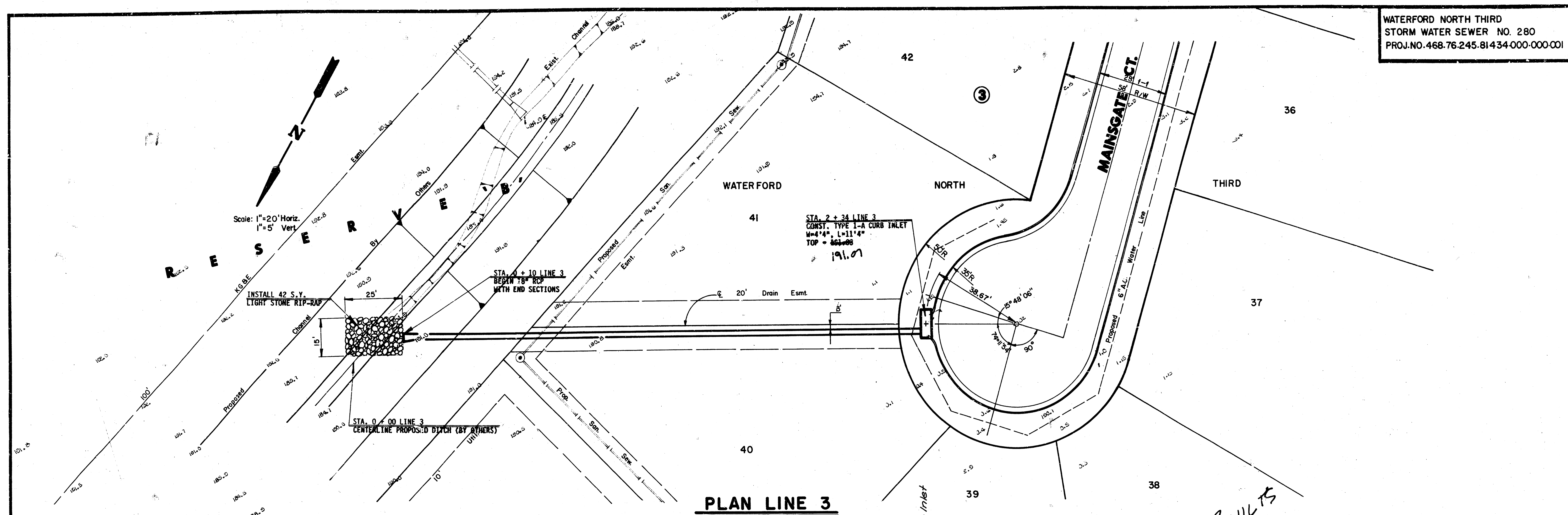


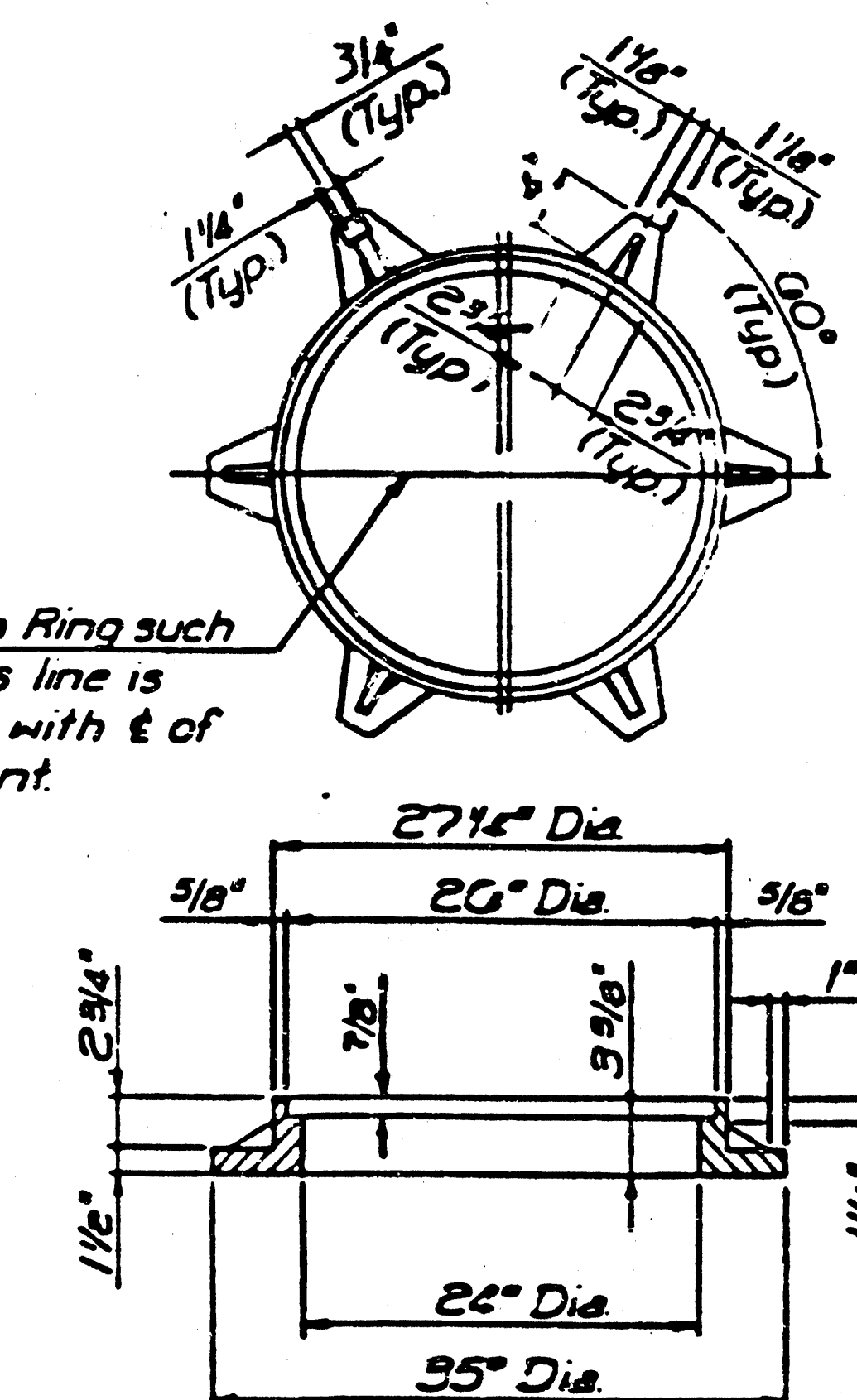
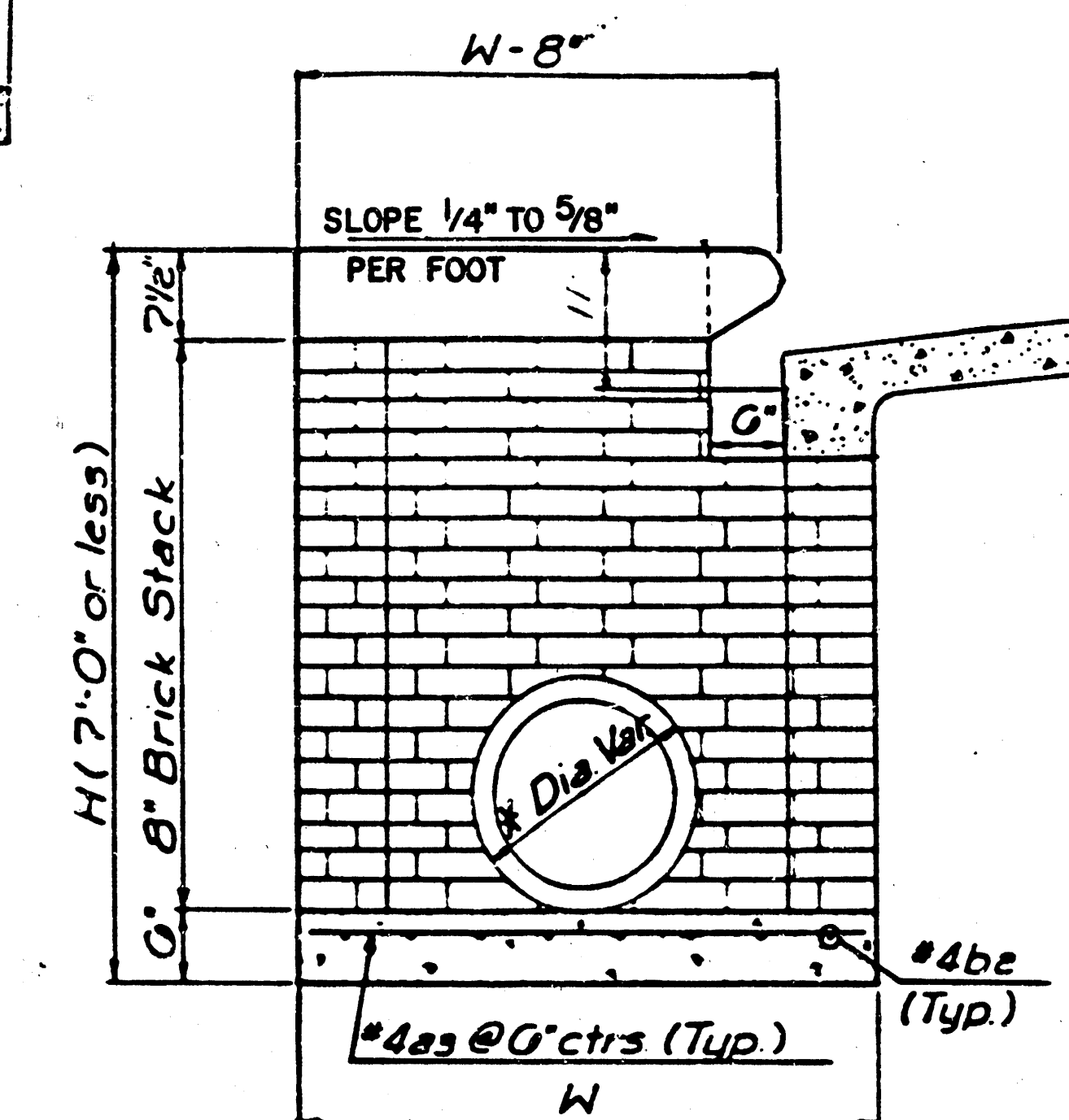
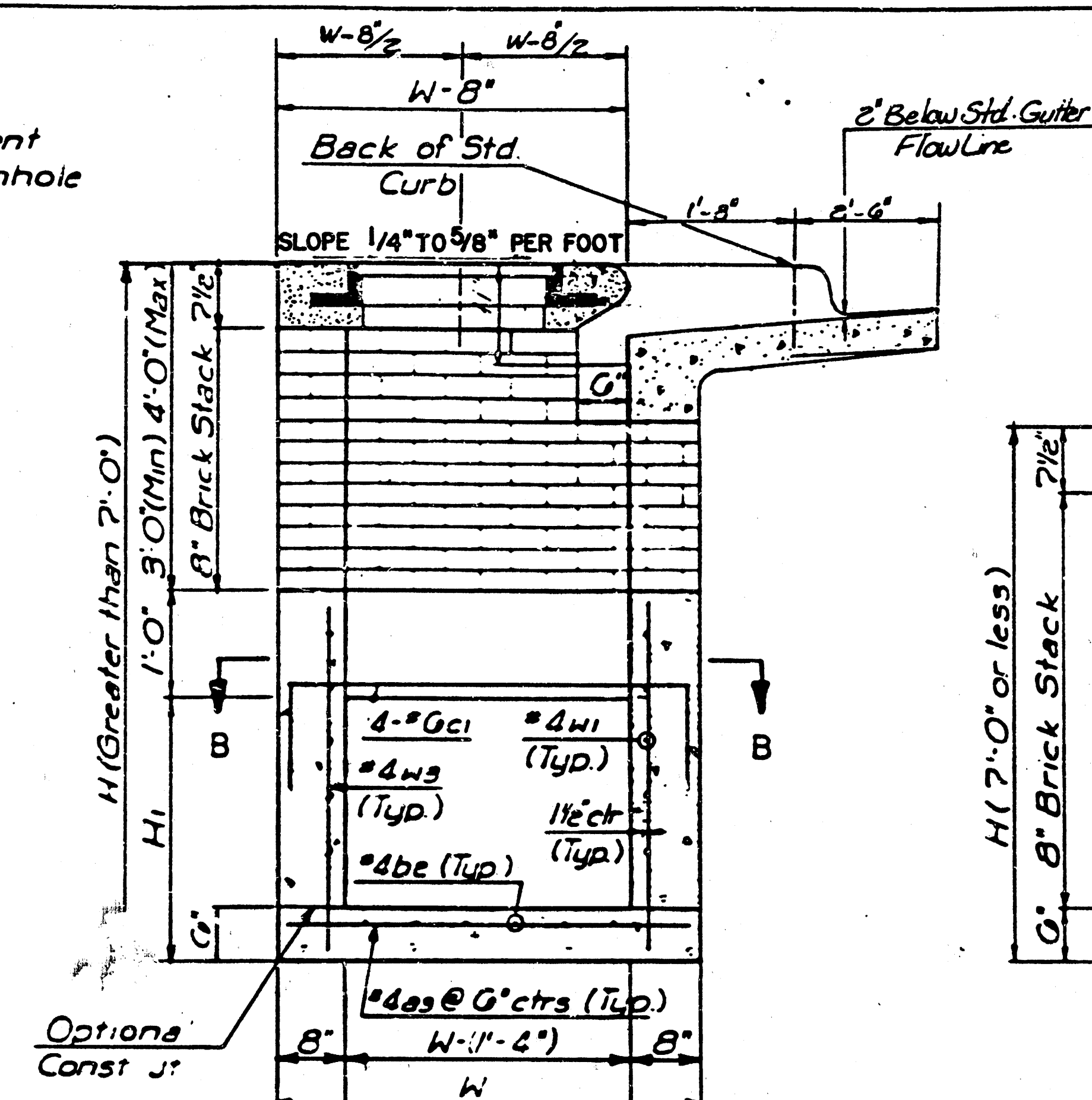
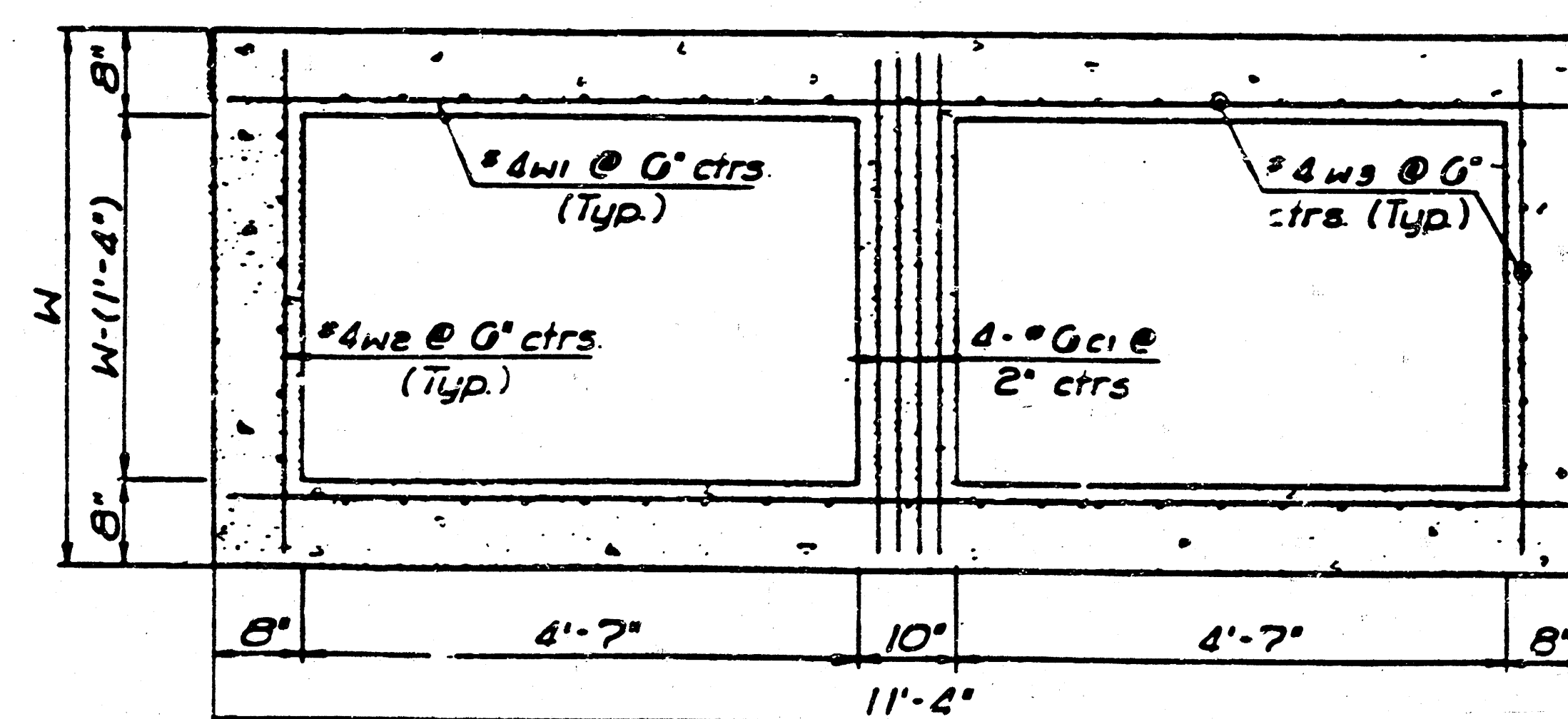
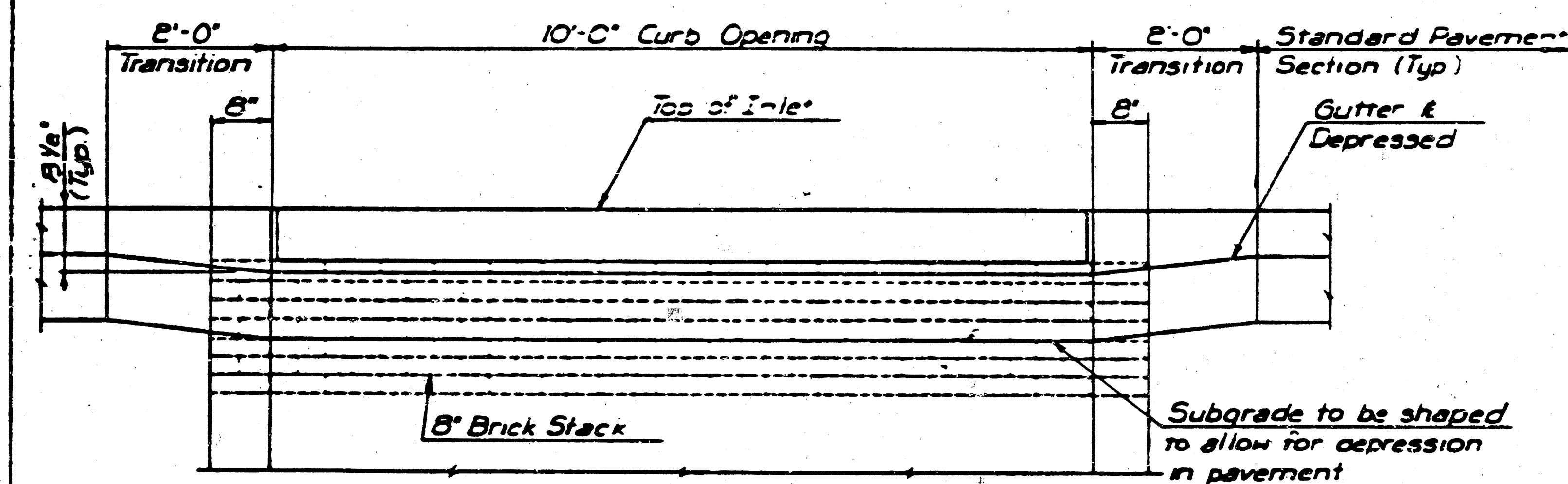
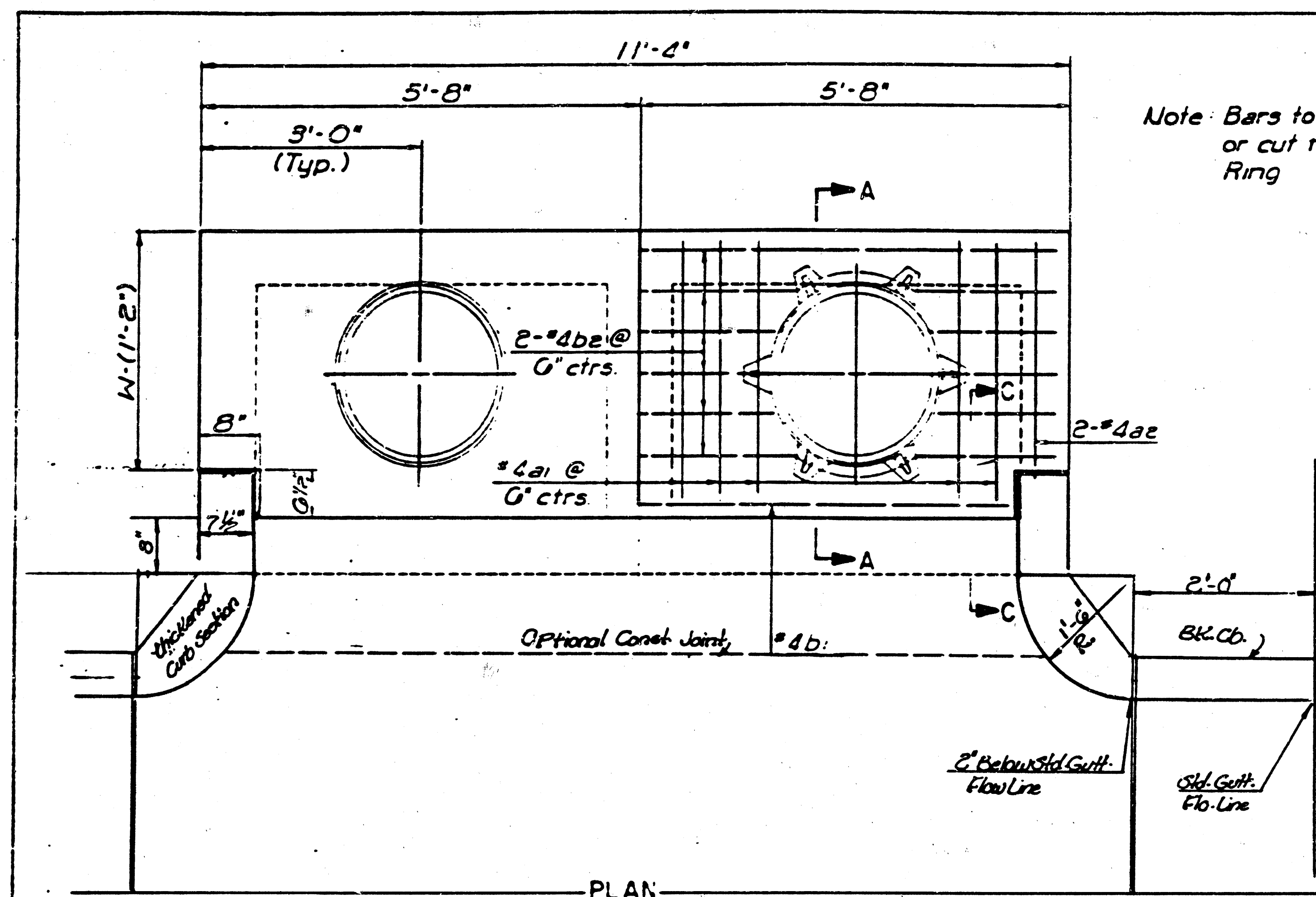


PLAN LINE 2

PROFILE LINE 2







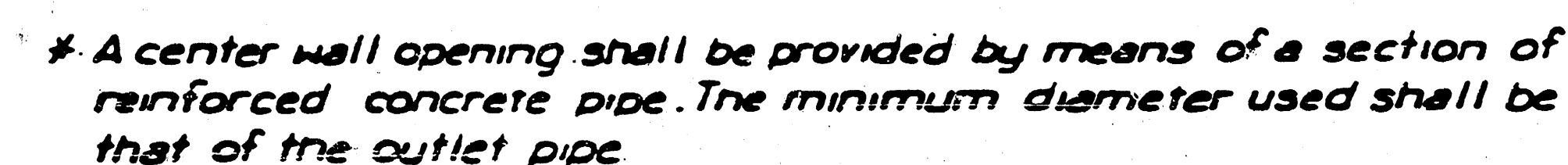
INLET FRAME (Weight = 180 LBS.)

SEE CITY OF WICHITA STANDARD MANHOLE
FRAME AND COVER DETAIL SHEET FOR COVER
DETAILS TO BE USED WITH INLET FRAME.

GENERAL NOTES

Concrete shall be CQW Standard Paving Mix. All exposed edges shall be finished with an edging tool. Reinforcing Bars shall be field bent or cut to clear pipes. All bars are #4 bars at 6" Spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted. Floors of inlet shall be shaped with 8 Sack Sand Mix Concrete to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outfall pipe(s). The Contractor shall have the option of constructing 6" Brick Masonry Walls between the concrete inlet base and top on this inlet when H=7'-0" or less and W=6'-4" or less.

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



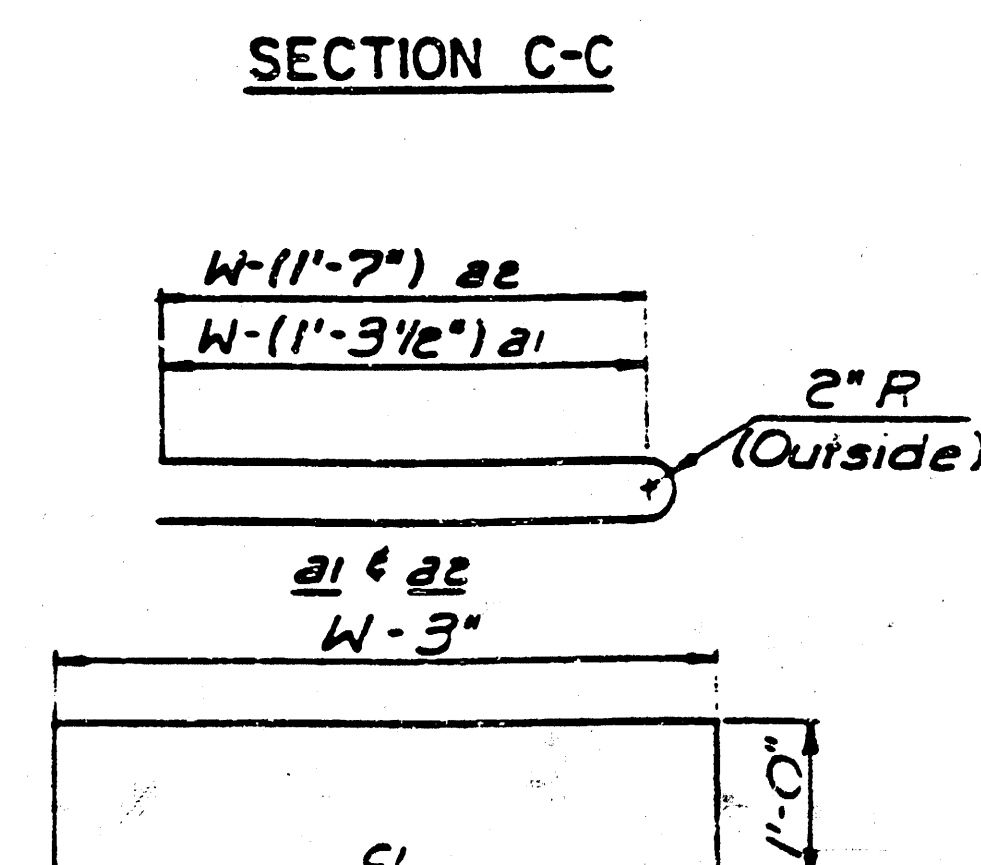
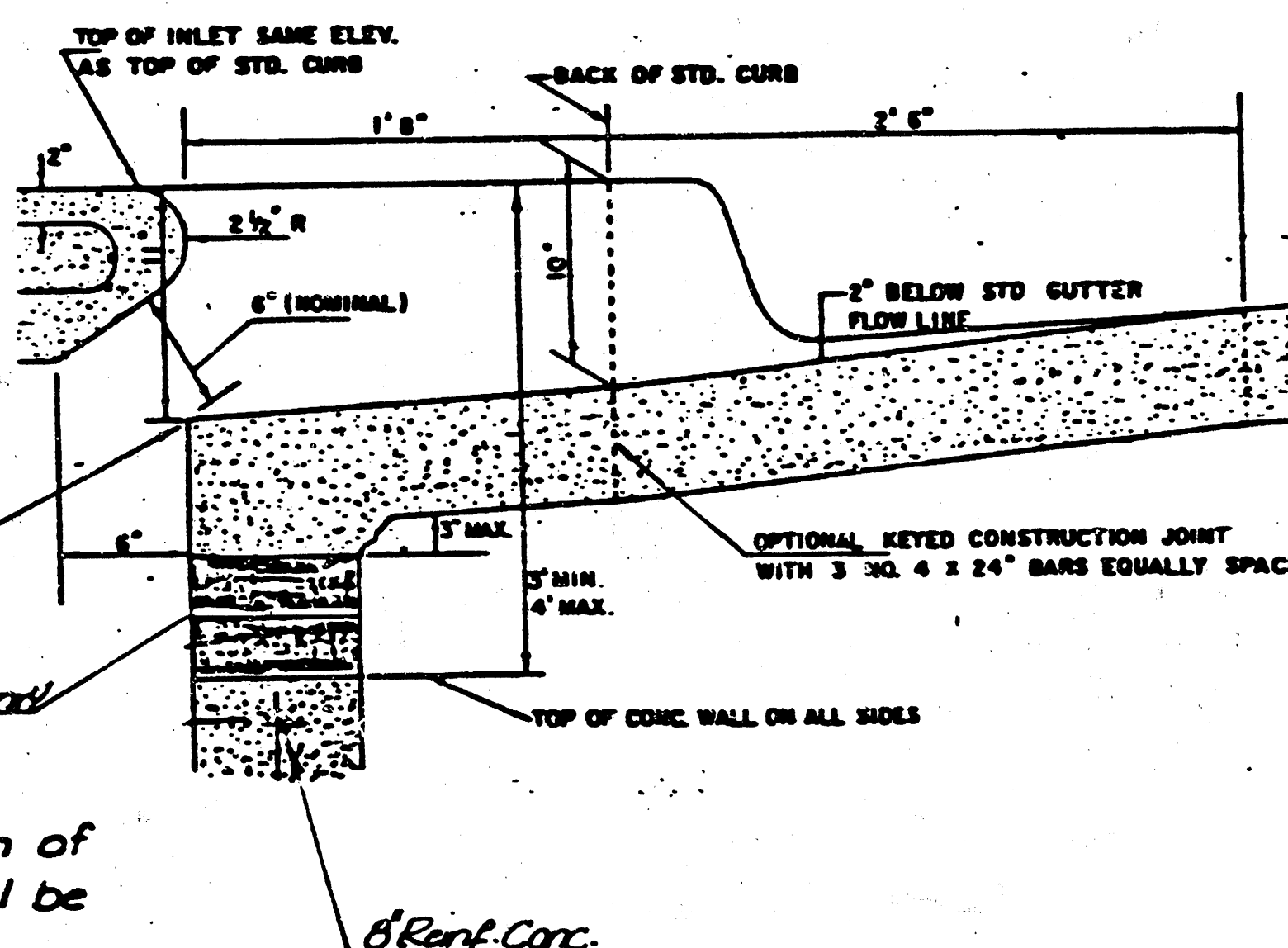
Note Concrete top to be installed on thin mortar cushion to insure full support along walls

SLAB AND FLOOR REINFORCING									
		W-4'-4"	W-5'-2"	W-6'-4"	W-7'-4"	W-8'-4"			
Mark	Size	No	Length	No	Length	No	Length	No	Length
a1	#4	13	0'-7½"	13	8'-7½"	13	10'-7½"	13	12'-7½"
a2	#4	2	G-O"	2	B-O"	2	10'-0"	2	12'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"
b1	#4	1	0'-8"	1	0'-8"	1	0'-8"	1	0'-8"
*bc	#4	13	11'-1"	24	11'-1"	30	11'-1"	30	11'-1"
WALL REINFORCING									
		W-4'-4"	W-5'-4"	W-6'-4"	W-7'-4"	W-8'-4"			
Mark	Size	No	Length	No	Length	No	Length	No	Length
c1	#0	4	0'-1"	4	2'-1"	4	8'-1"	4	10'-1"
w1	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	8'-1"
w3	#4	2	9	2	9	2	9	2	9

WALL REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No	Length	No	Length	No	Length	No	Length	No	Length
c1	#6	4	9'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
w1	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	2	3	2	3	2	3	2	3	2	3

* Field bend or cut Reinforcing as required for clearance

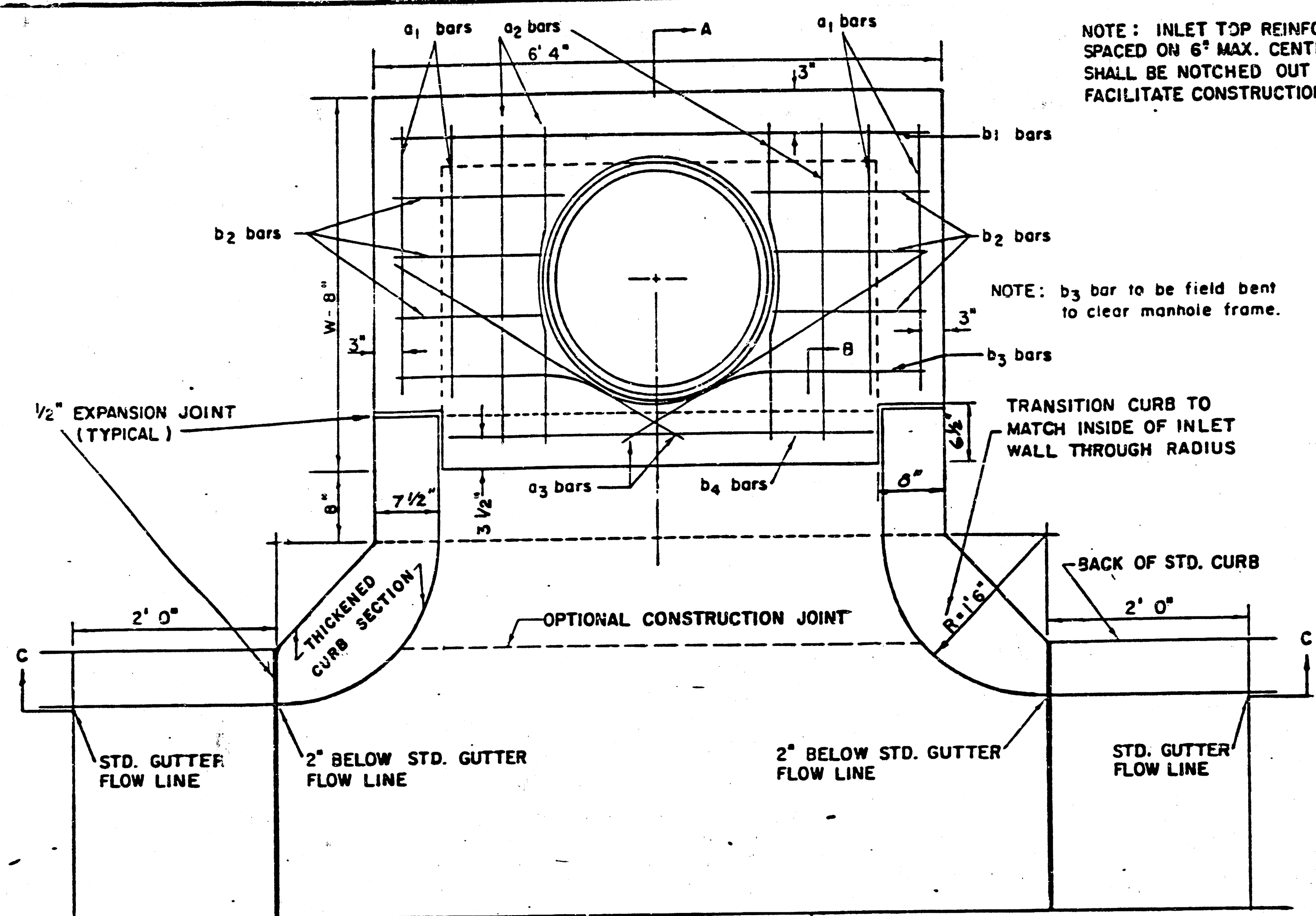
① $4(H_1 - G^*)$ ② $40 + 4(W - 1)$ ③ $H_1 - (D^*)$



DETAIL STANDARD
TYPE 1A CURB INLET

INLET OPENING = 6" x 10' - 0"

CITY OF WICHITA
M. E. LINDEBAK, CITY ENGINEER
OCTOBER 1984



PLAN

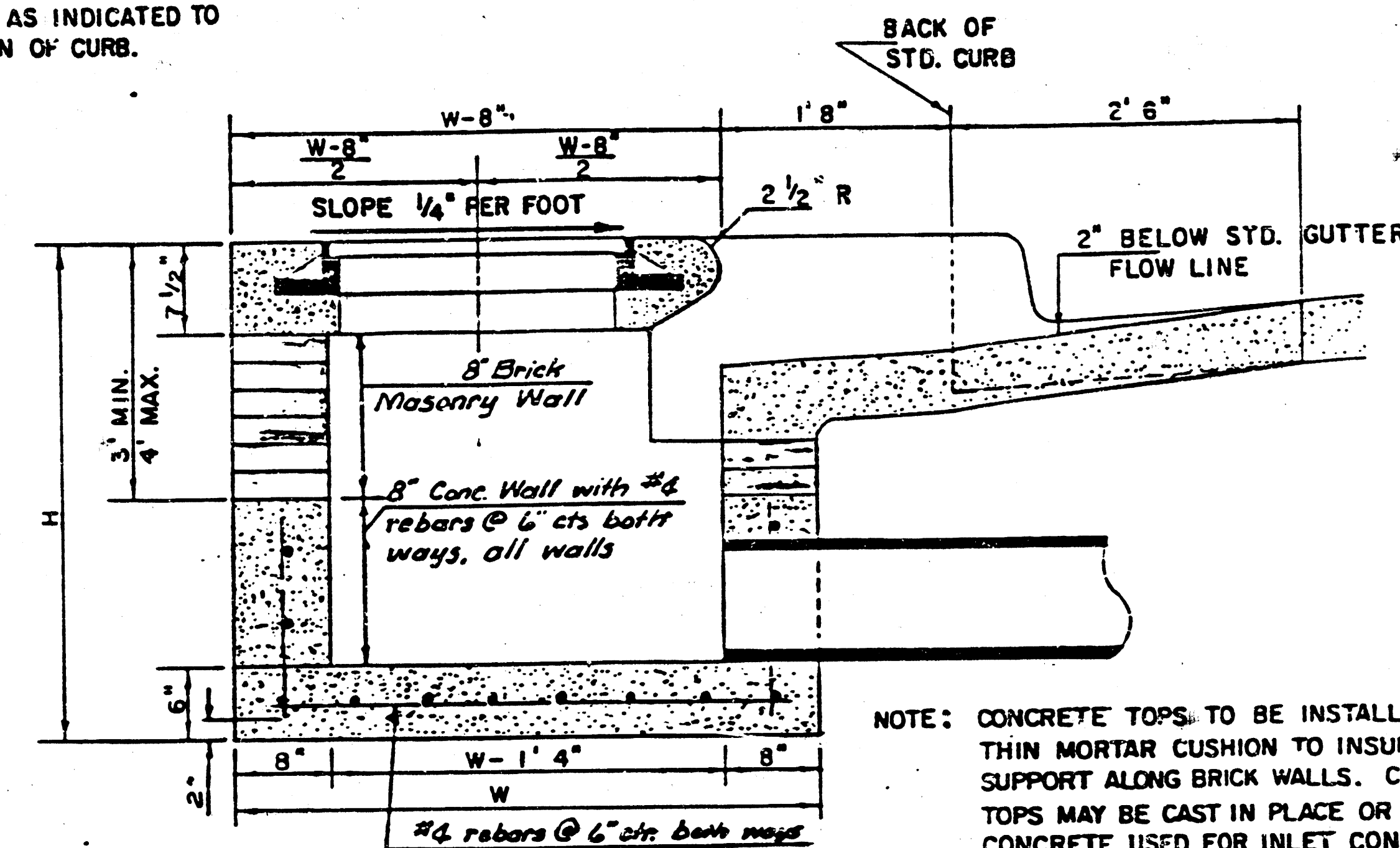
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4	#6
W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	1'9"
W=5'4"	7'7"	8'7"	5'0"	6'1"	-	-	-	1'9"
W=6'4"	9'7"	10'7"	6'0"	6'1"	-	-	-	1'9"
W=7'4"	11'7"	12'7"	7'0"	6'1"	-	-	-	1'9"
W=8'4"	13'7"	14'7"	8'0"	6'1"	-	-	-	1'9"

* NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

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

NOTE: b₃ bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS



SECTION A-A

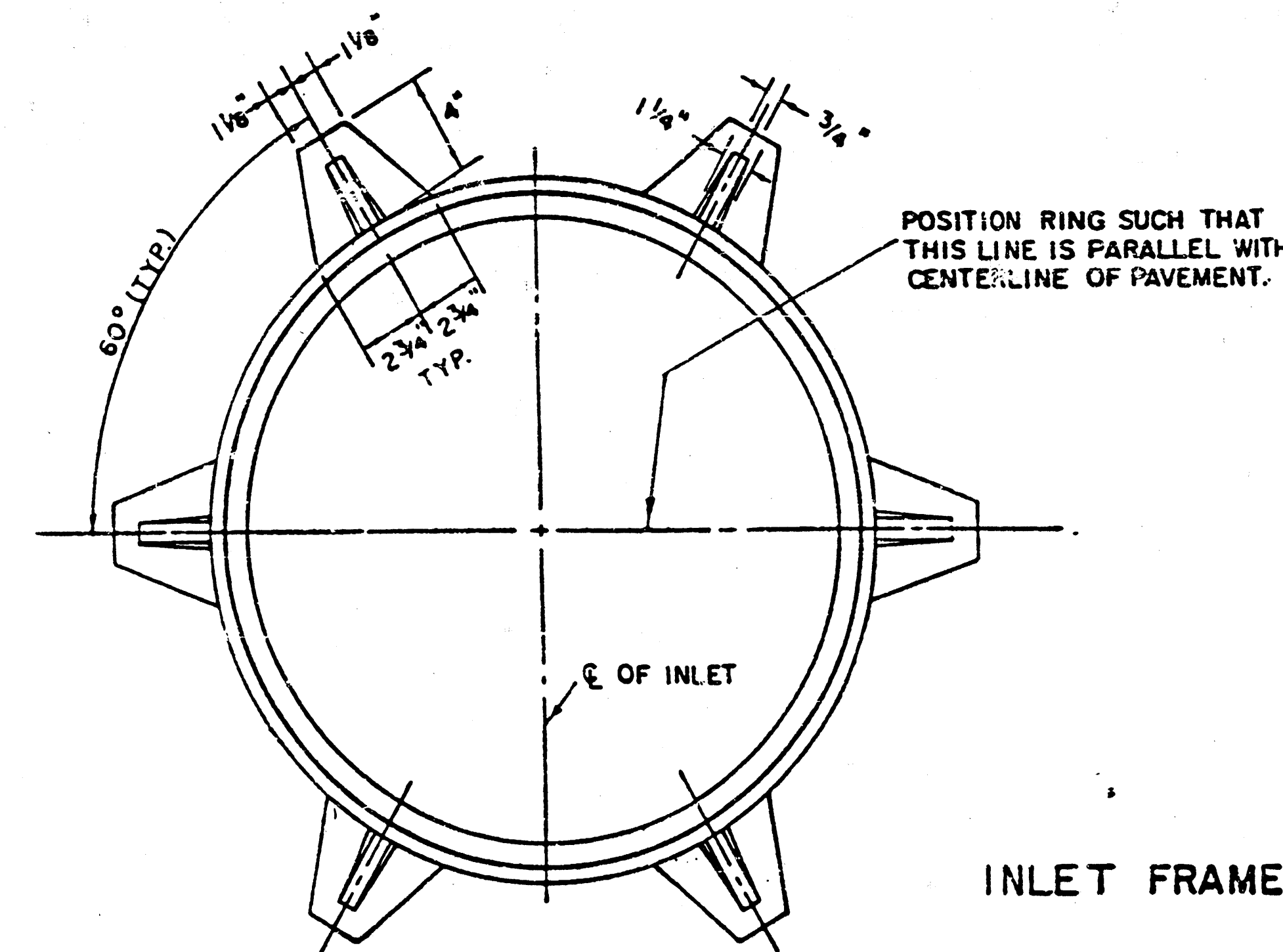
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 4'4" AND H = 6'6" OR LESS.

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.

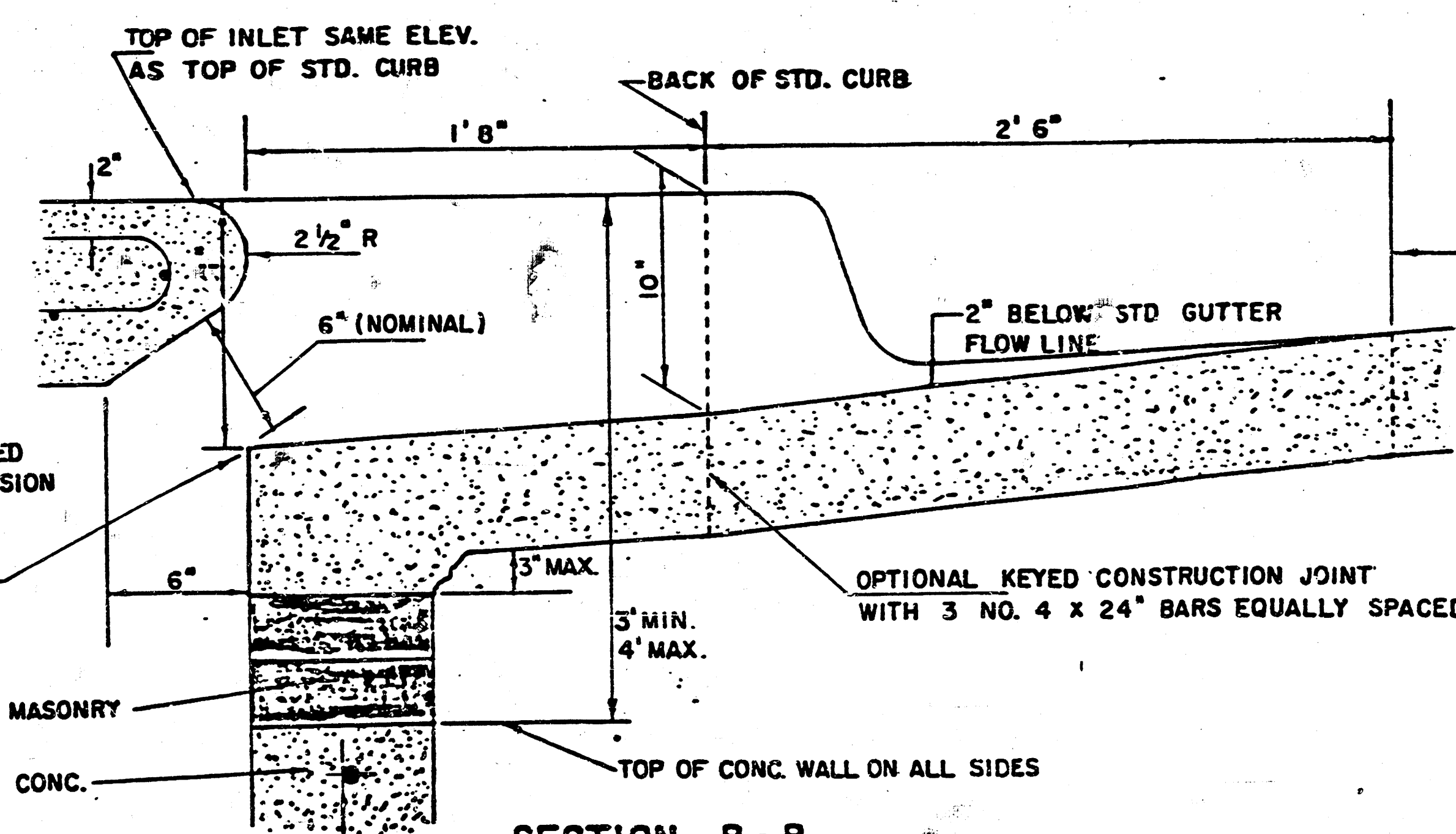
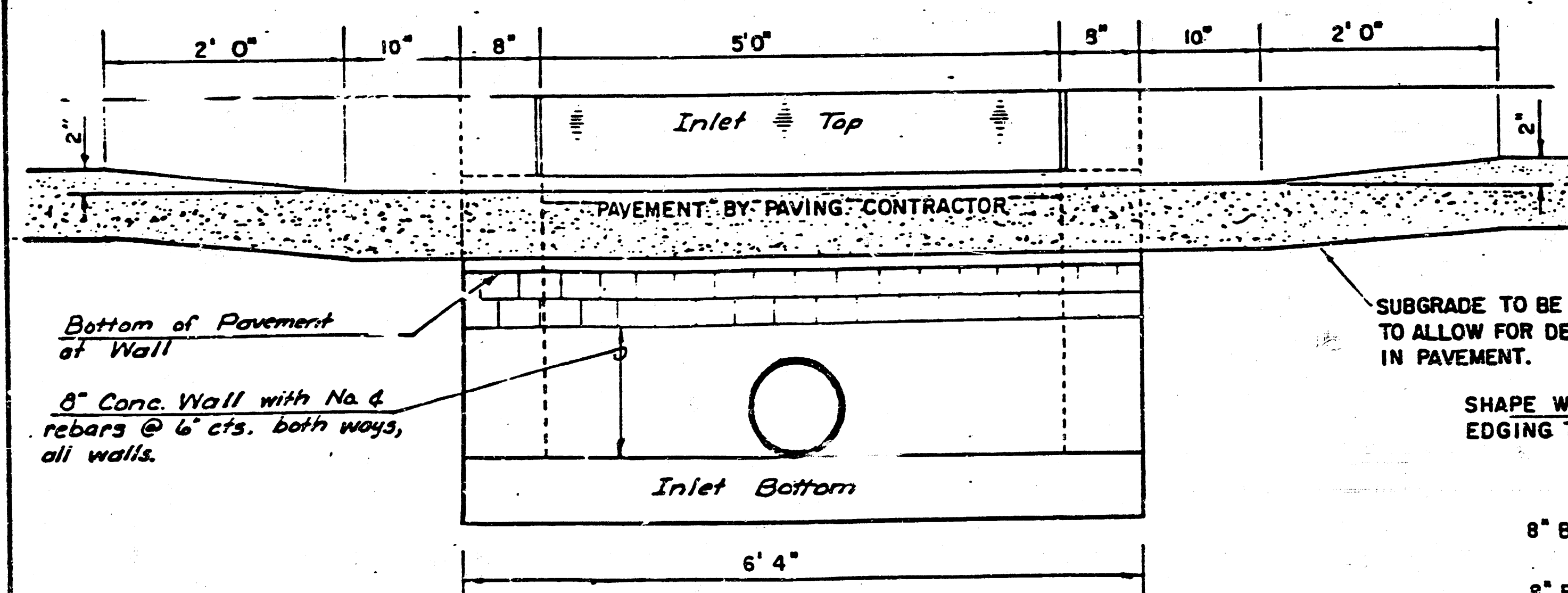
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	5' 8" x 6' 4" x 7 1/2"	21" B SMALLER	0.38 ±
5' 4"	6' 8" x 6' 4" x 7 1/2"	24" B 30"	0.51 ±
6' 4"	7' 8" x 6' 4" x 7 1/2"	36" B 42"	0.64 ±
7' 4"	8' 8" x 6' 4" x 7 1/2"	48" B 54"	0.77 ±
8' 4"	9' 8" x 6' 4" x 7 1/2"	60" B 66"	0.90 ±



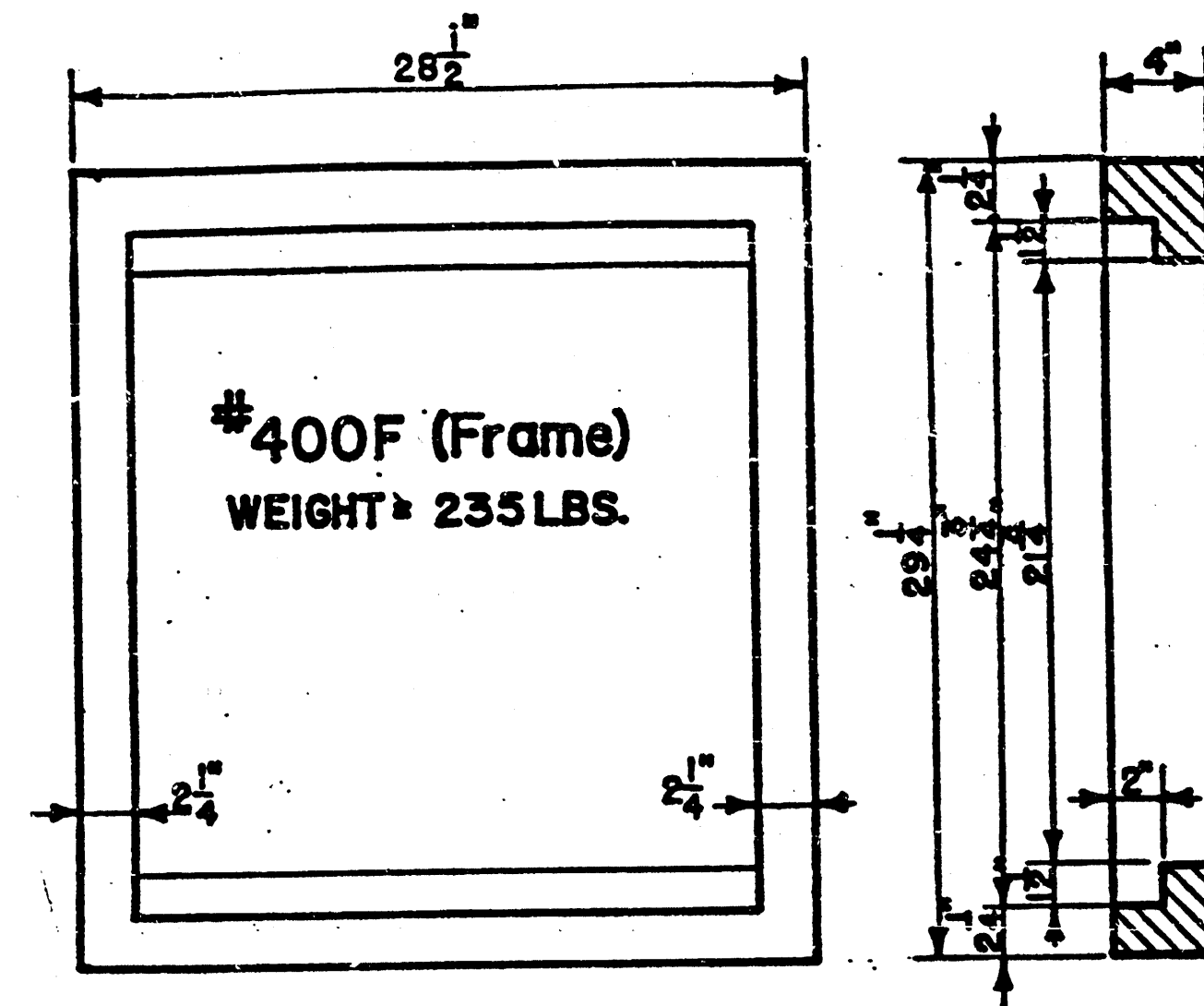
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



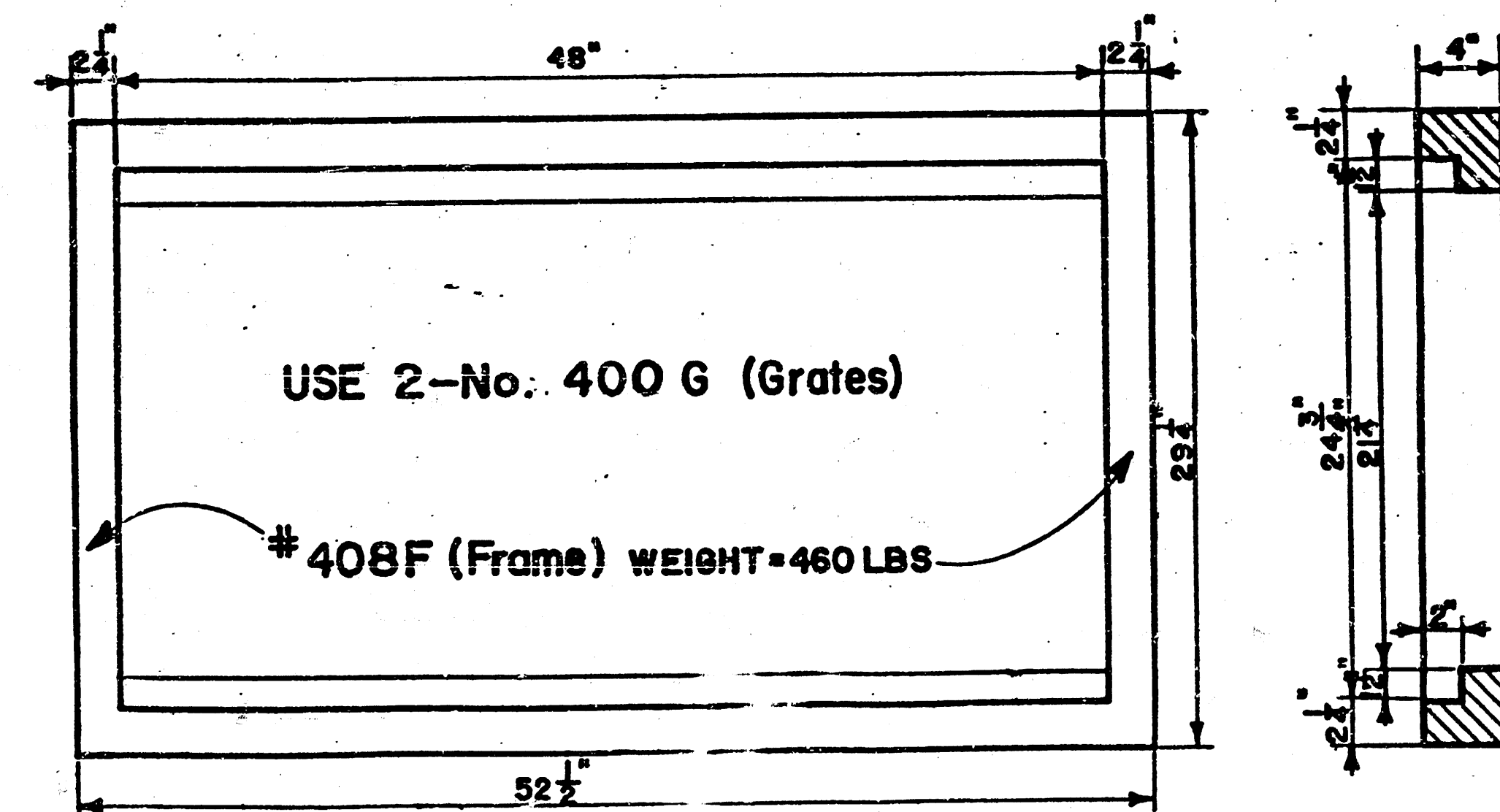
DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6' x 5'0"

JUNE 1984

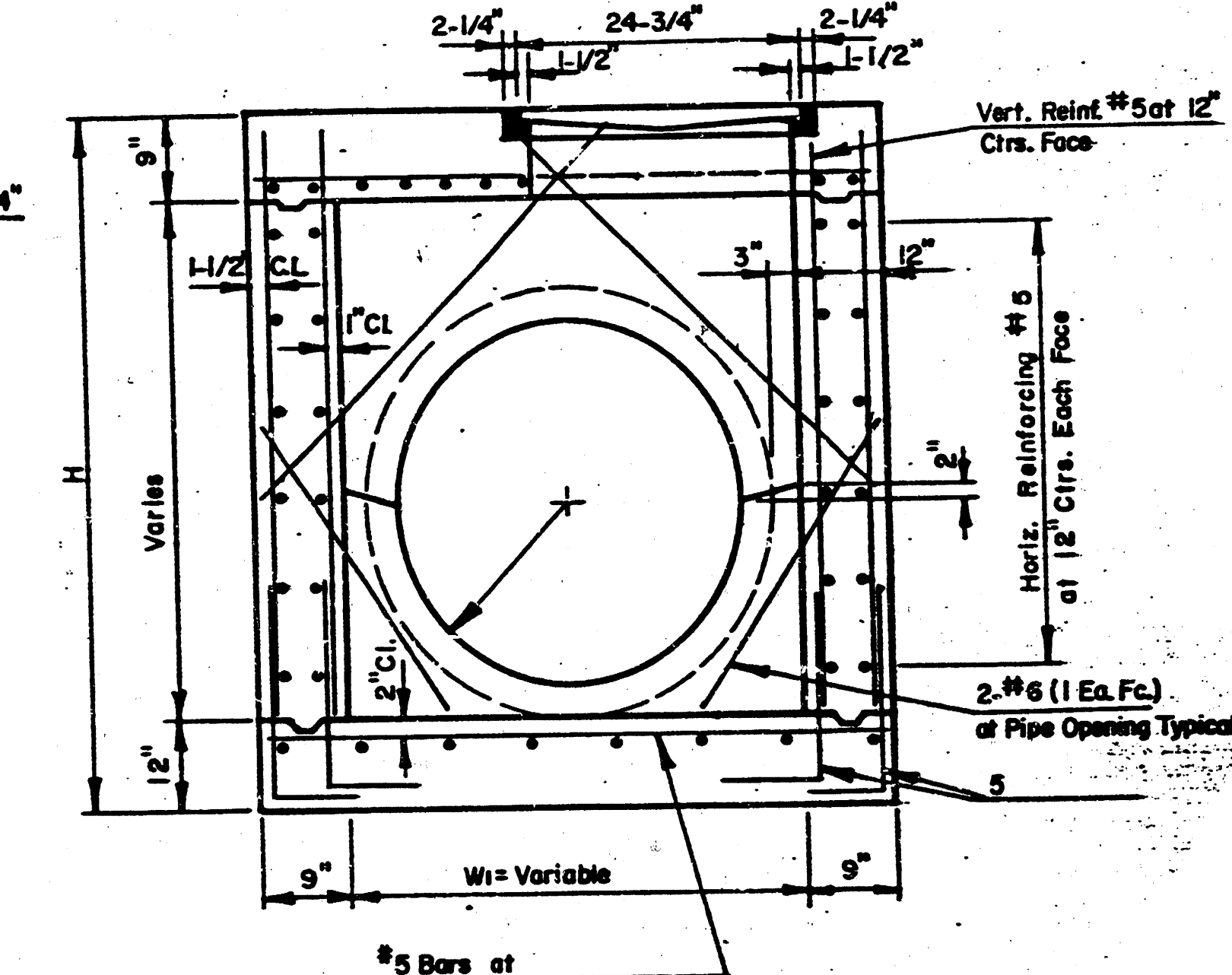
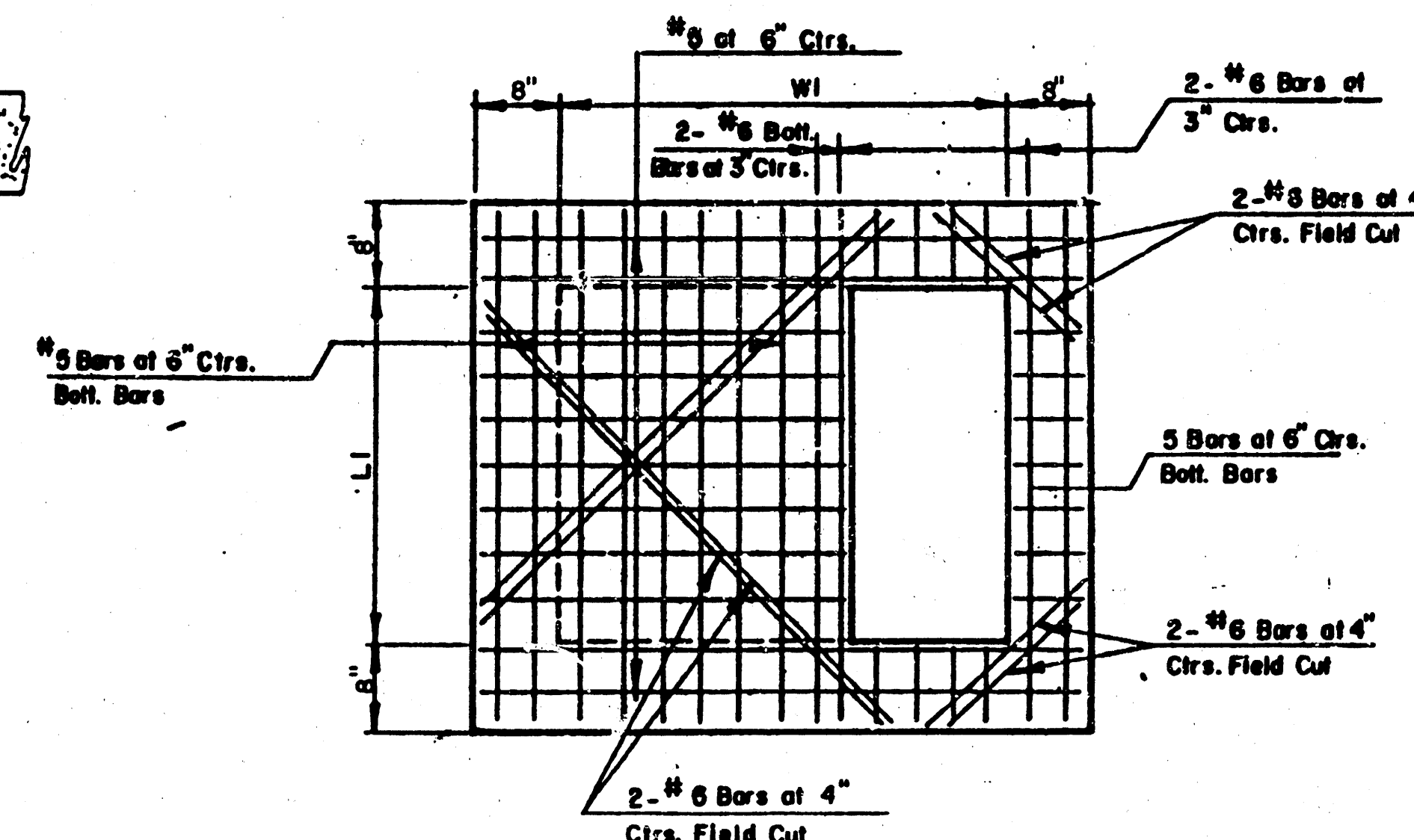
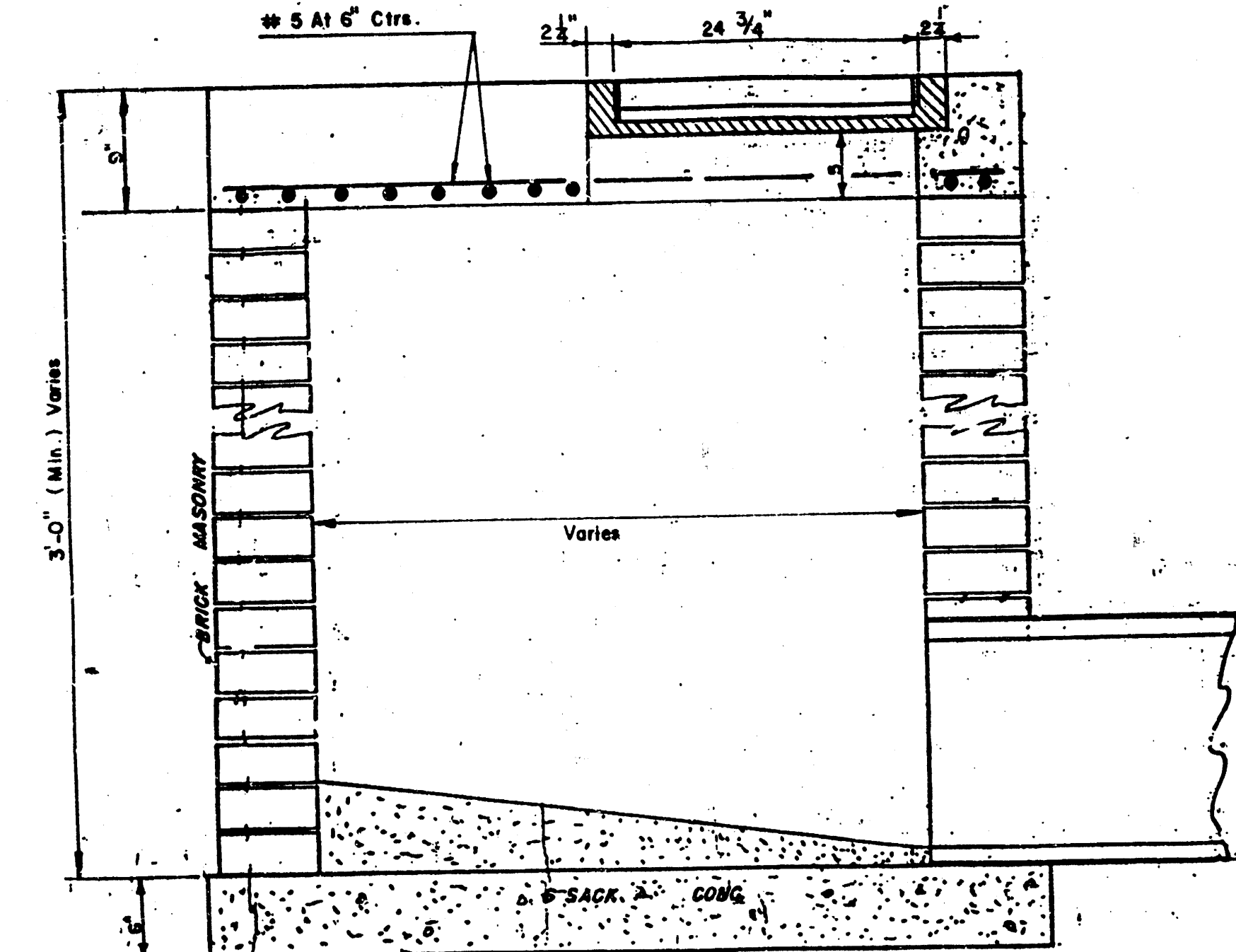
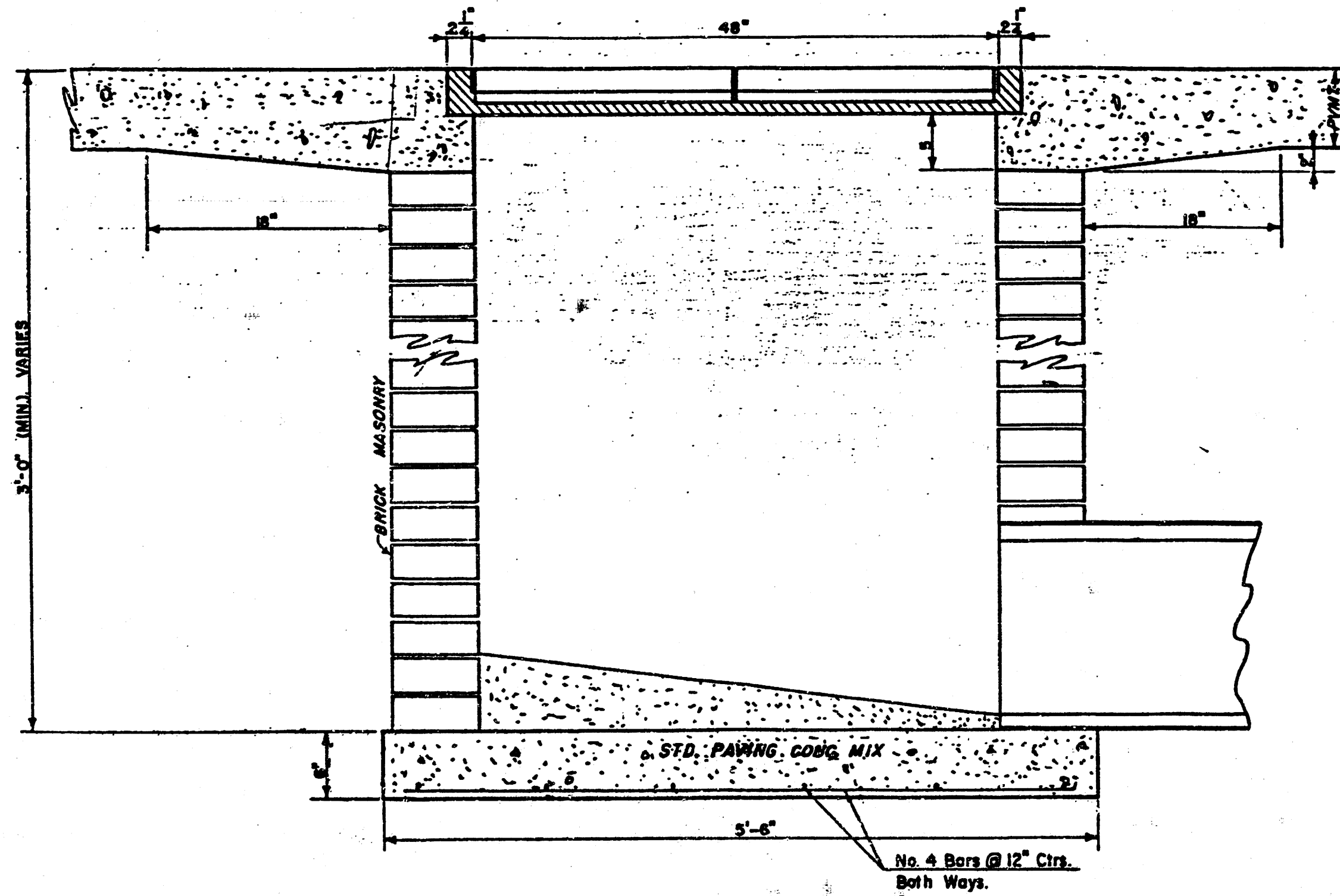
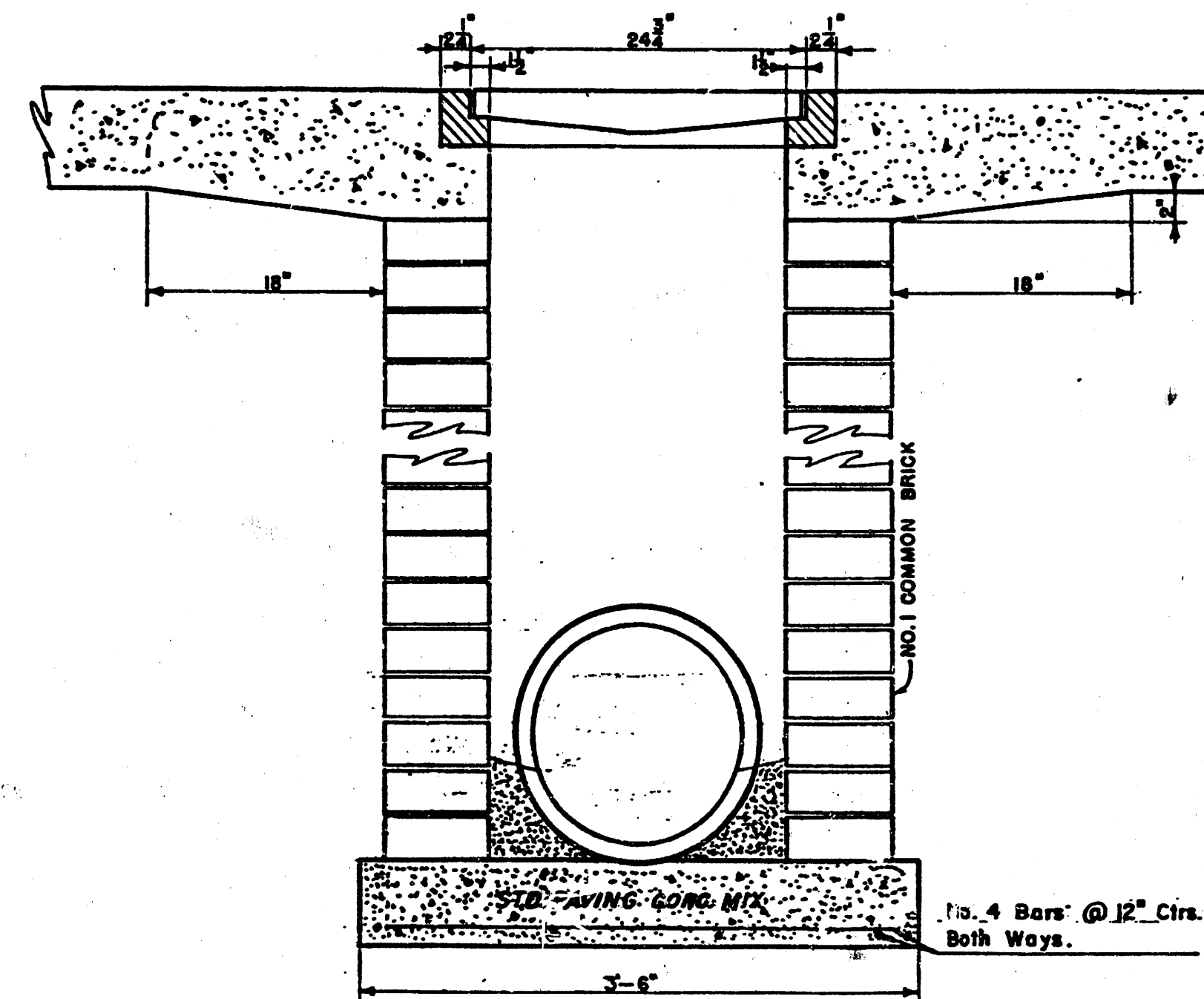
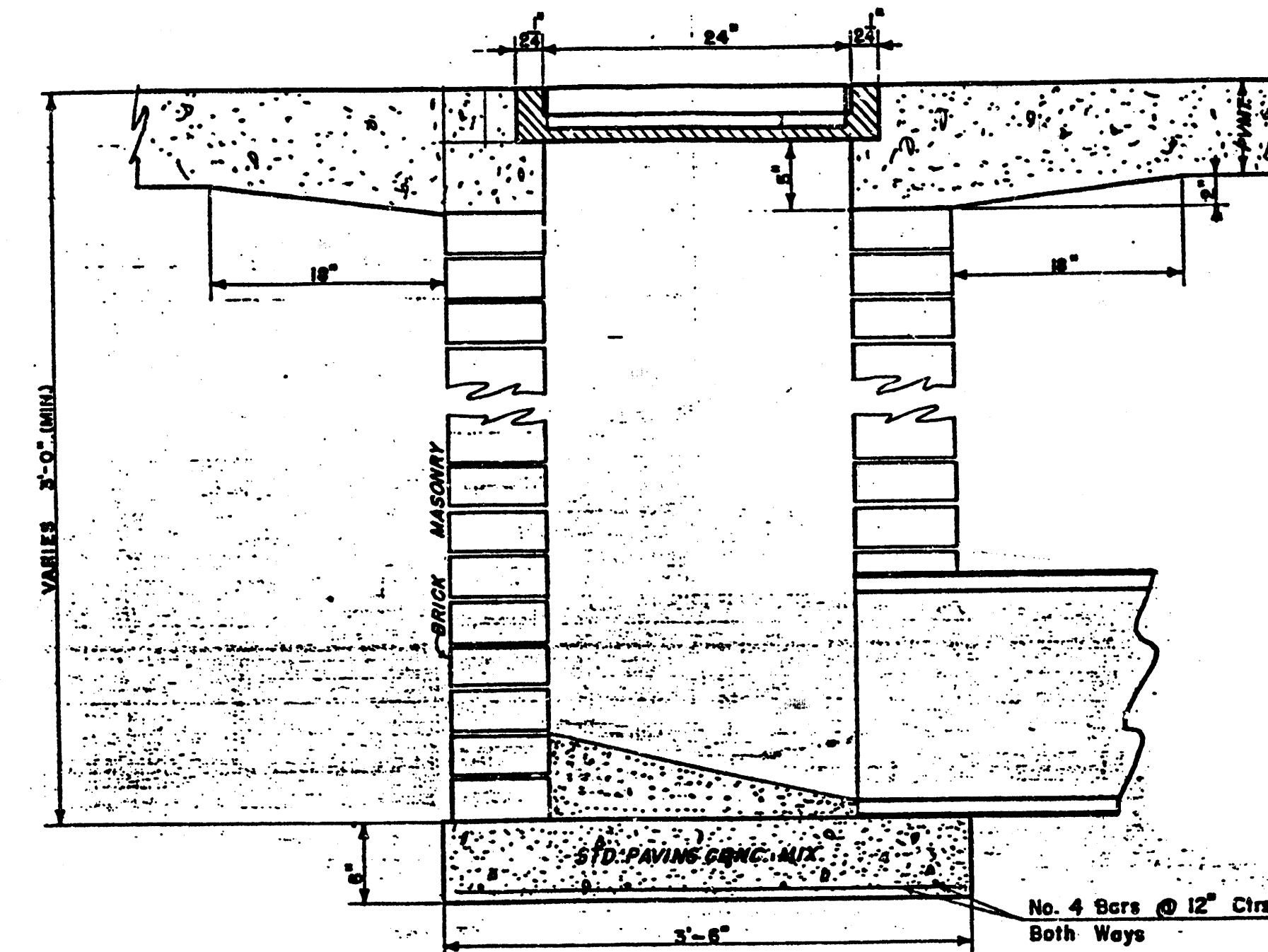
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.



24"x24" Frame & Grate Detail

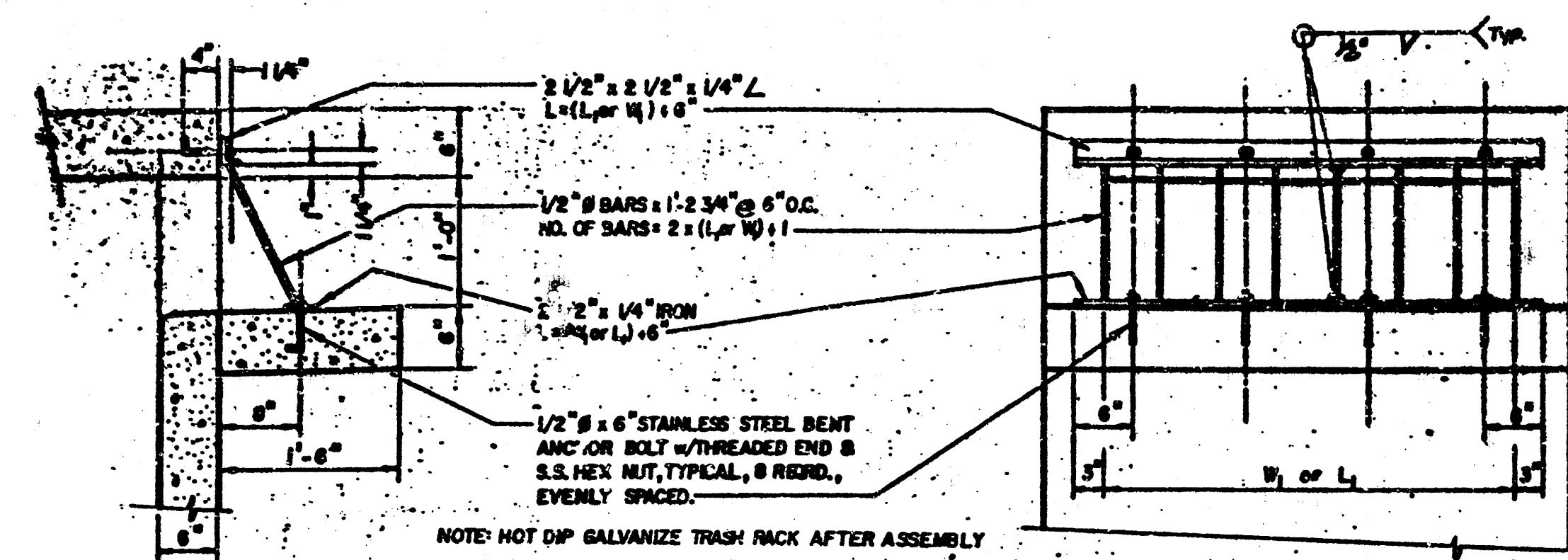


Double 24"x24" Frame Detail

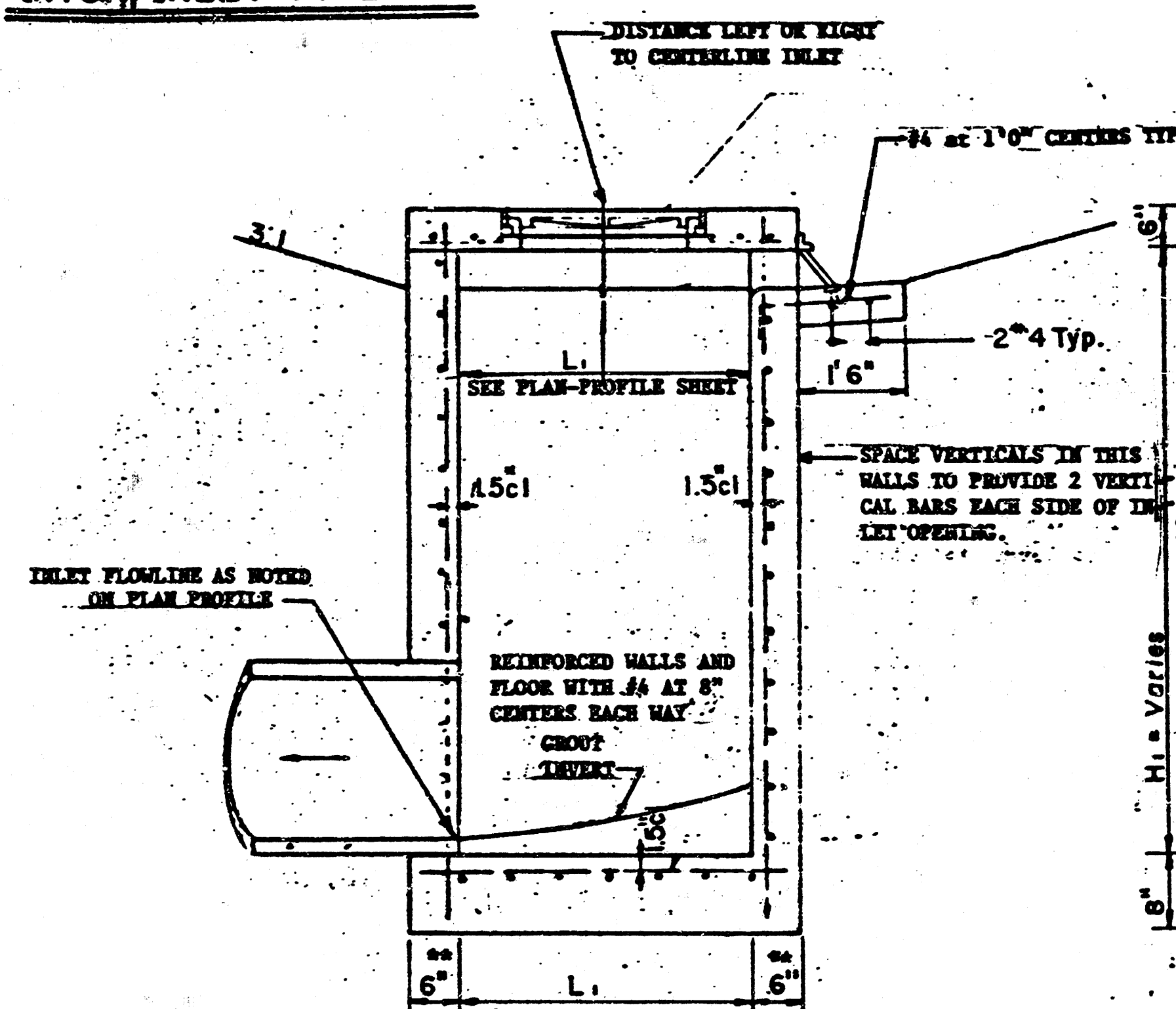
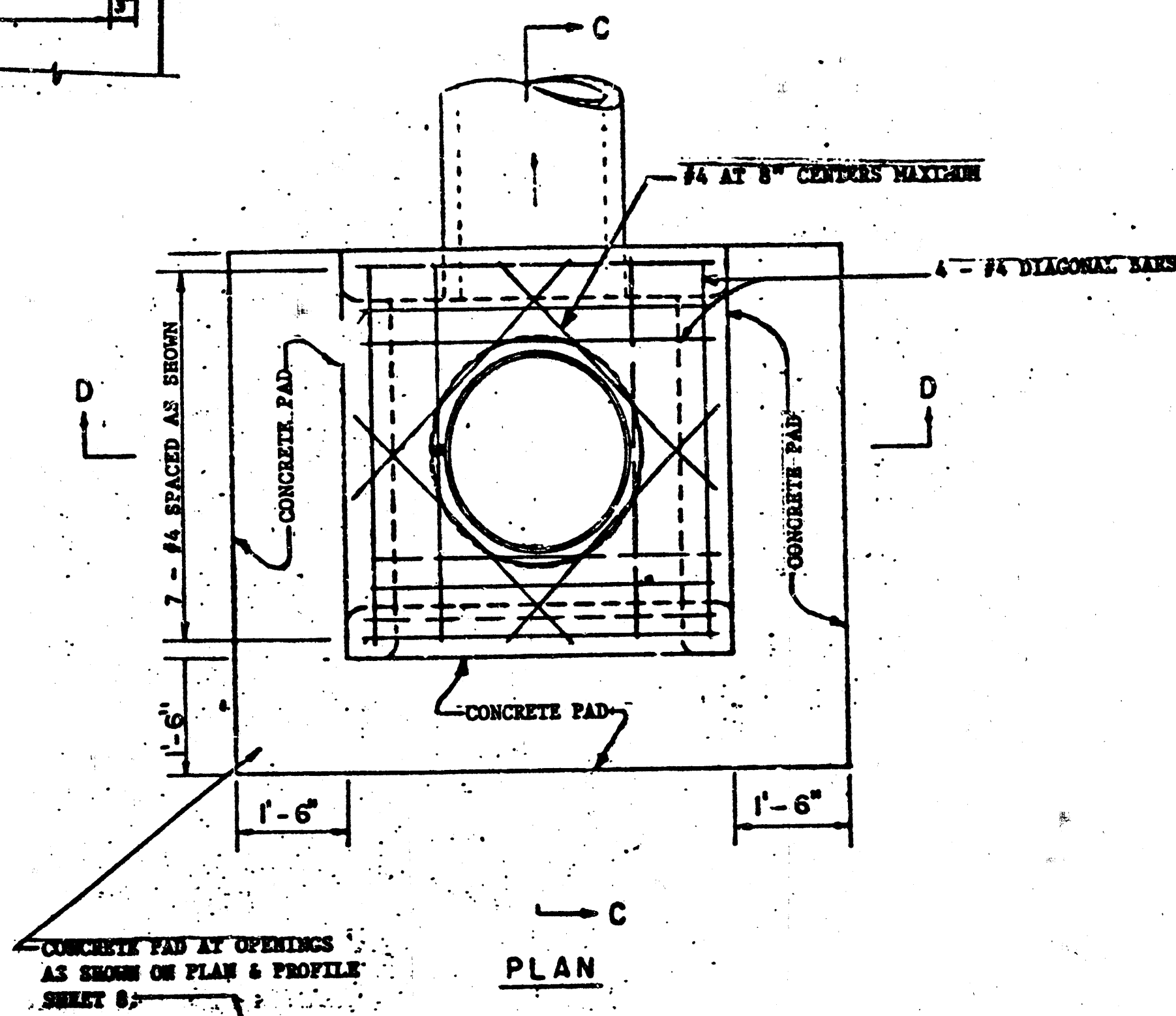
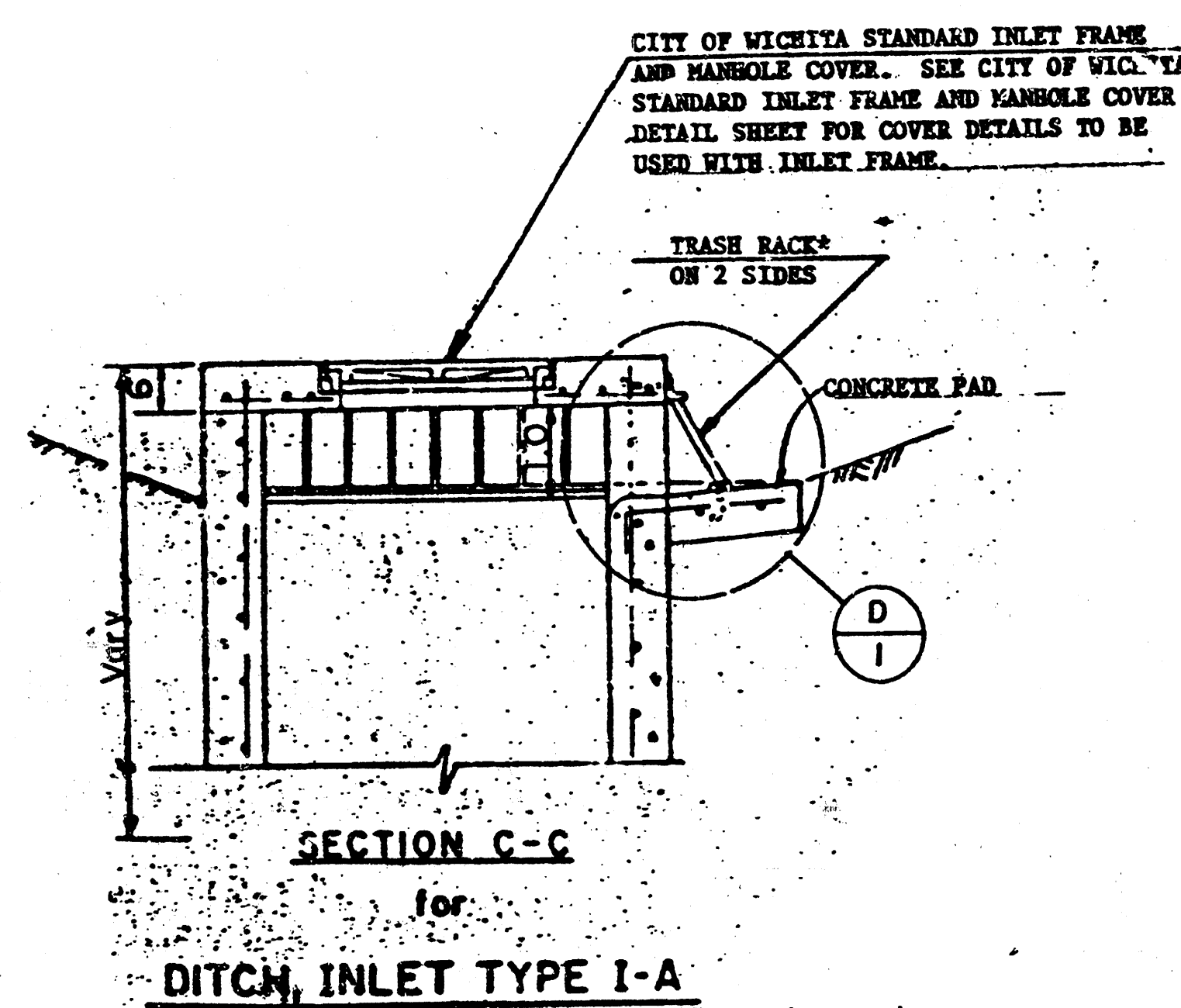


REINFORCED CONCRETE AREA INLET

	AREA / INLET DETAILS CITY OF WICHITA, KS. PROJ. NO. 468762458000100000007		Design Drawn by Checked by Date Job no.
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 1800 WICHITA, KANSAS 67226		Sheet 10A 13
	682-6561		10/14
	682-6561		10/14

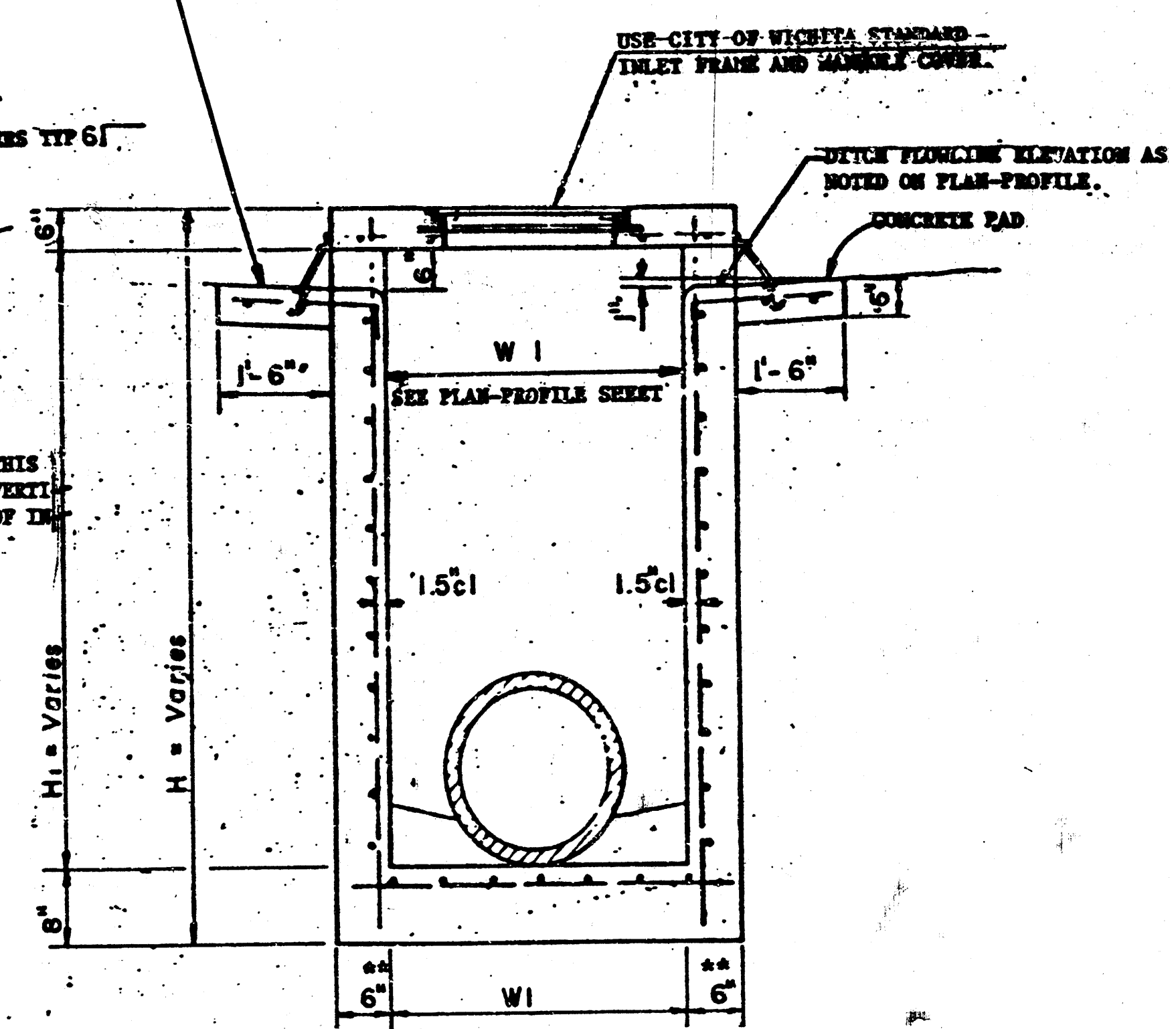


TRASH RACK DETAIL (D-1)



SECTION C-C INLET I-I

DITCH INLET TYPE I



SECTION D-D

** WHERE DIMENSION "H₁" IS GREATER THAN 6', USE 8" WALL THICKNESS.

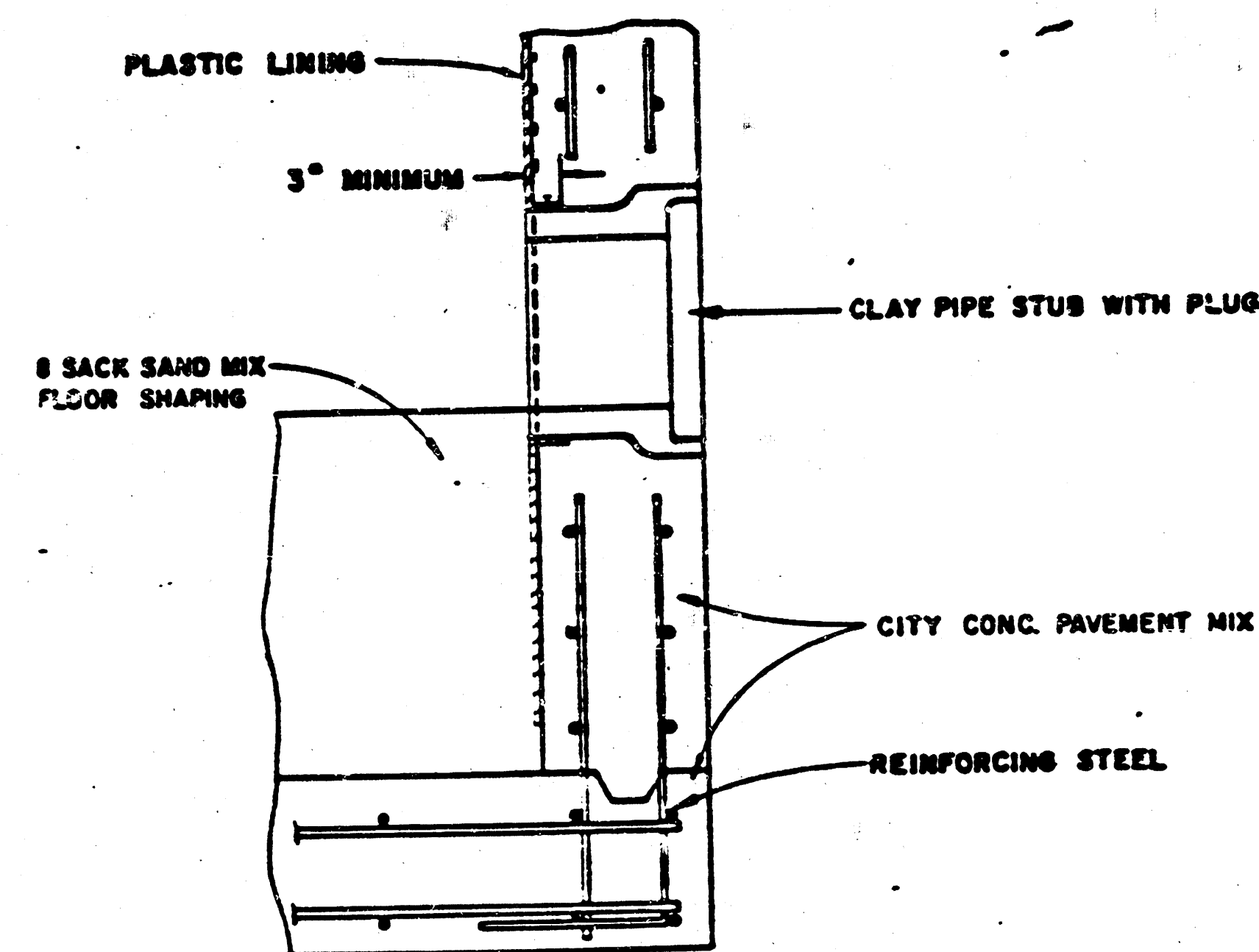
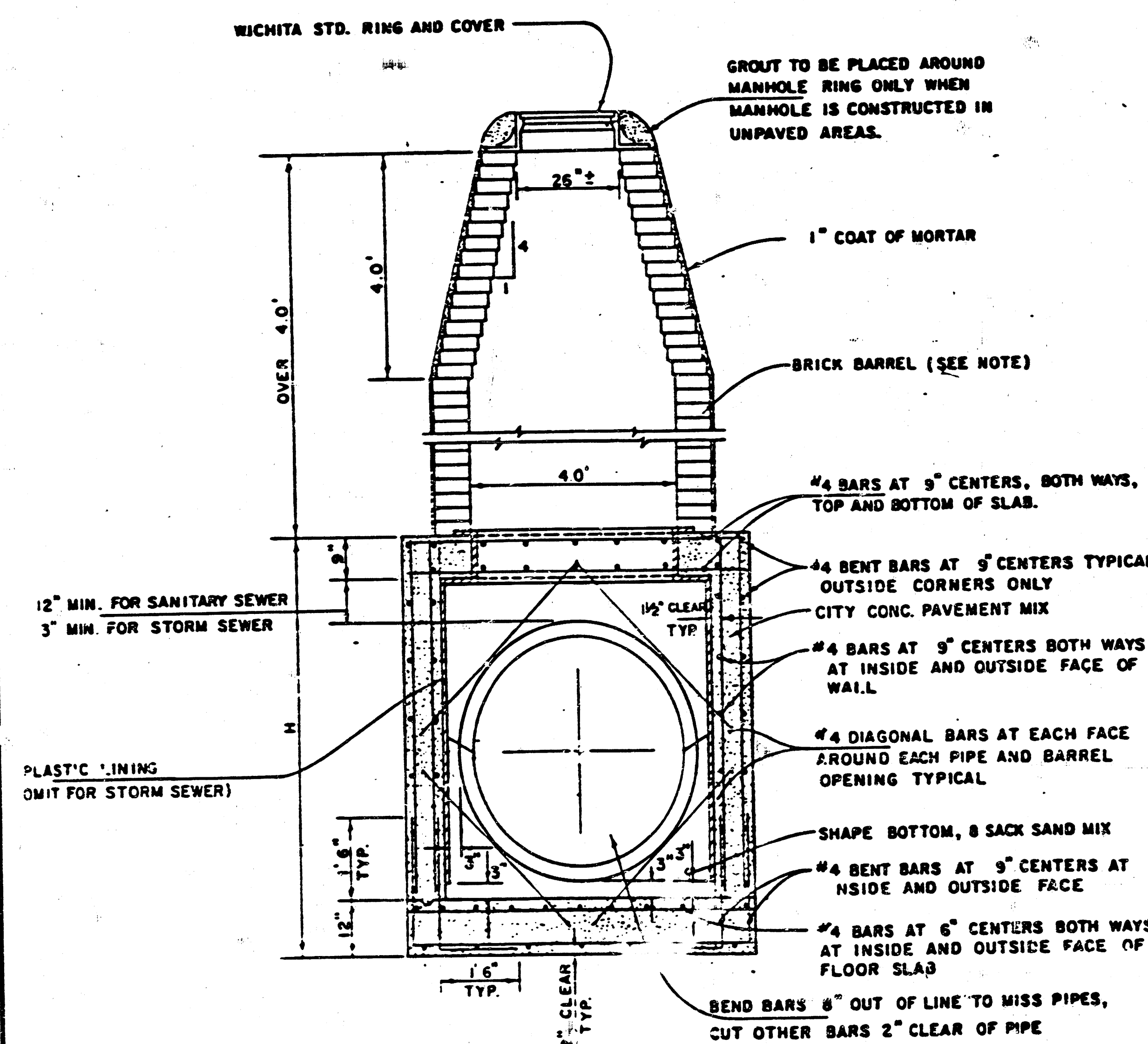
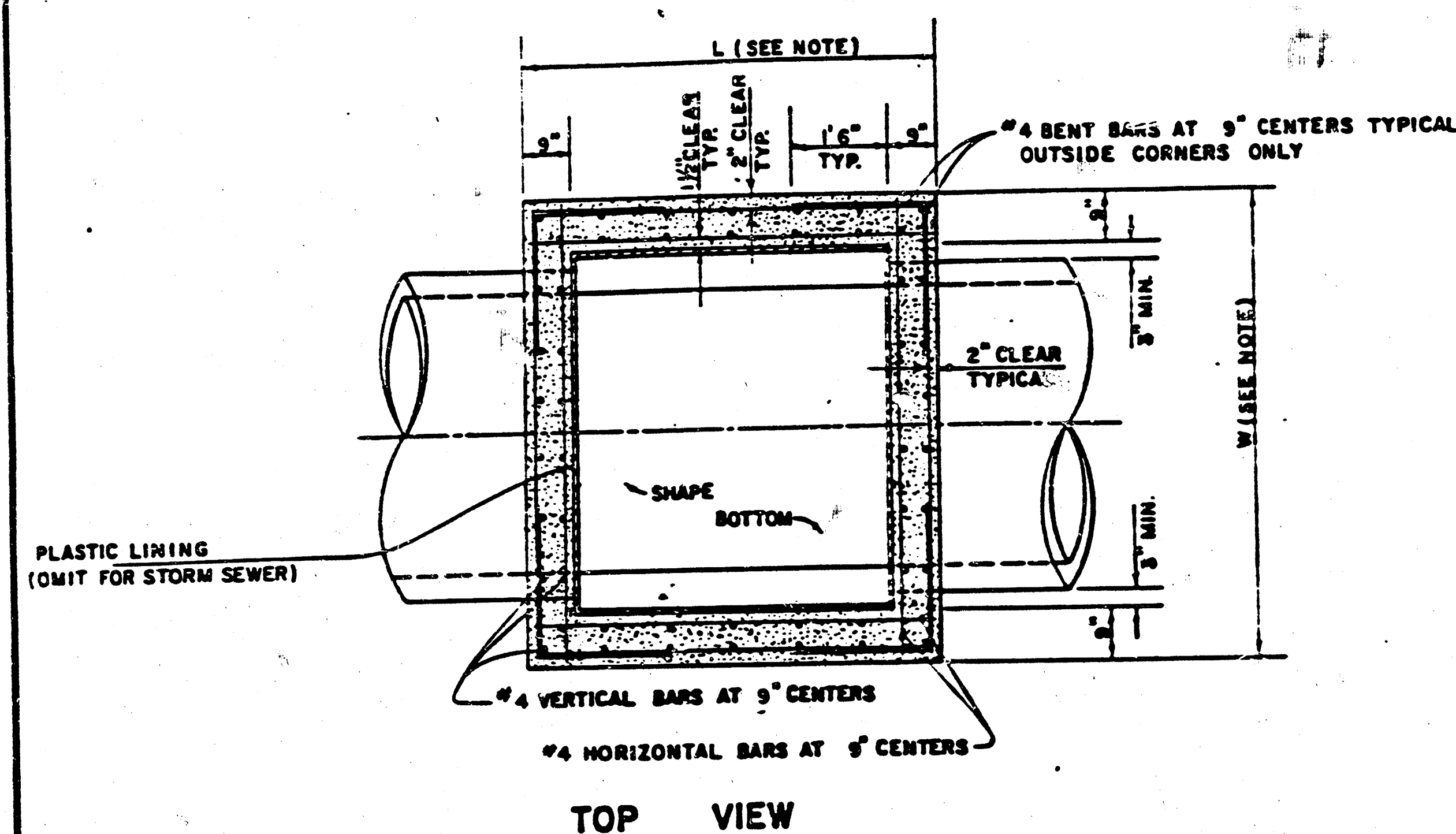


**DITCH INLET
DETAIL**

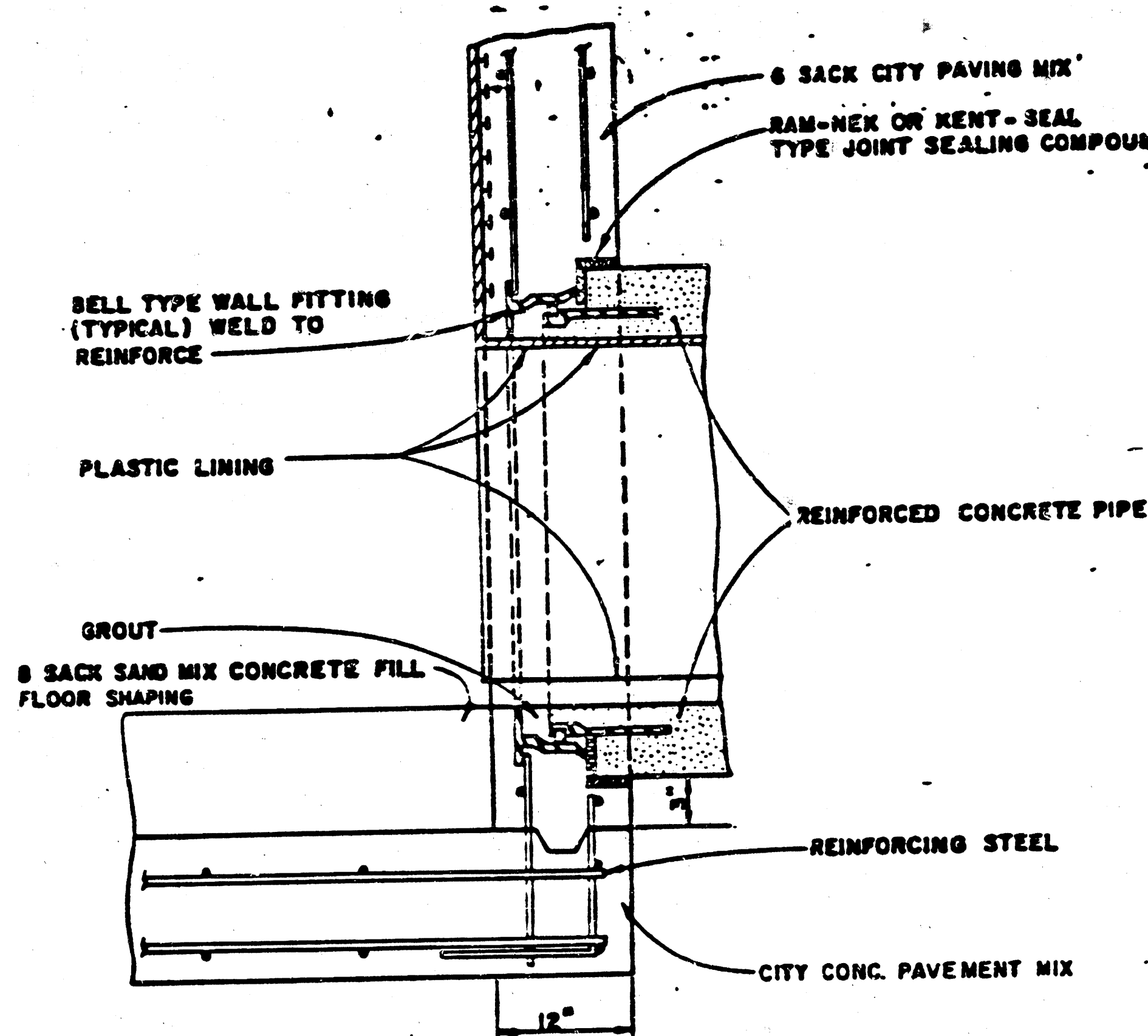
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING 1800
WICHITA, KANSAS 67226

682-6561

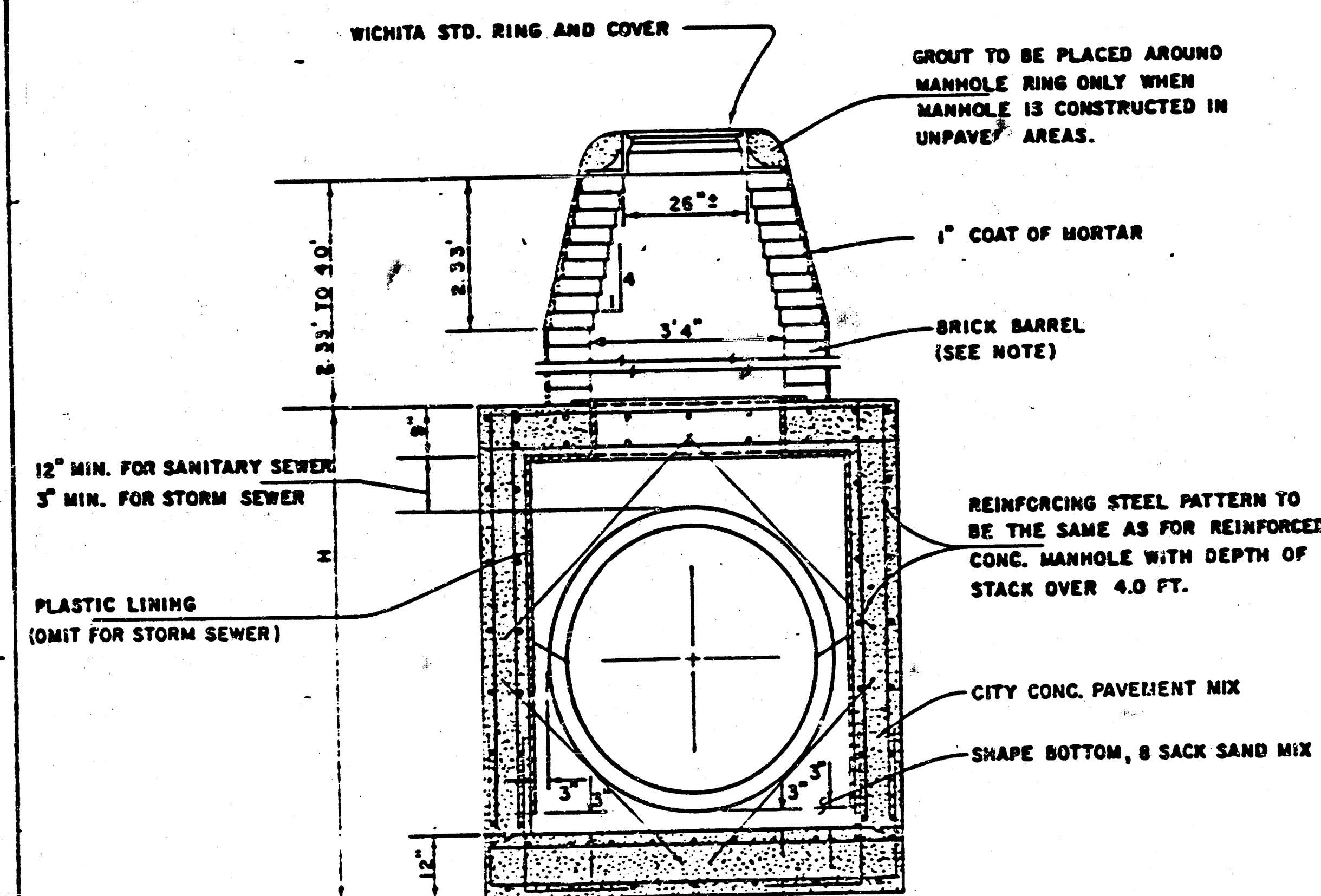
Design	
Drawn by	
Checked by	
Date	
Job no.	
Sheet	10B
of	13



V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

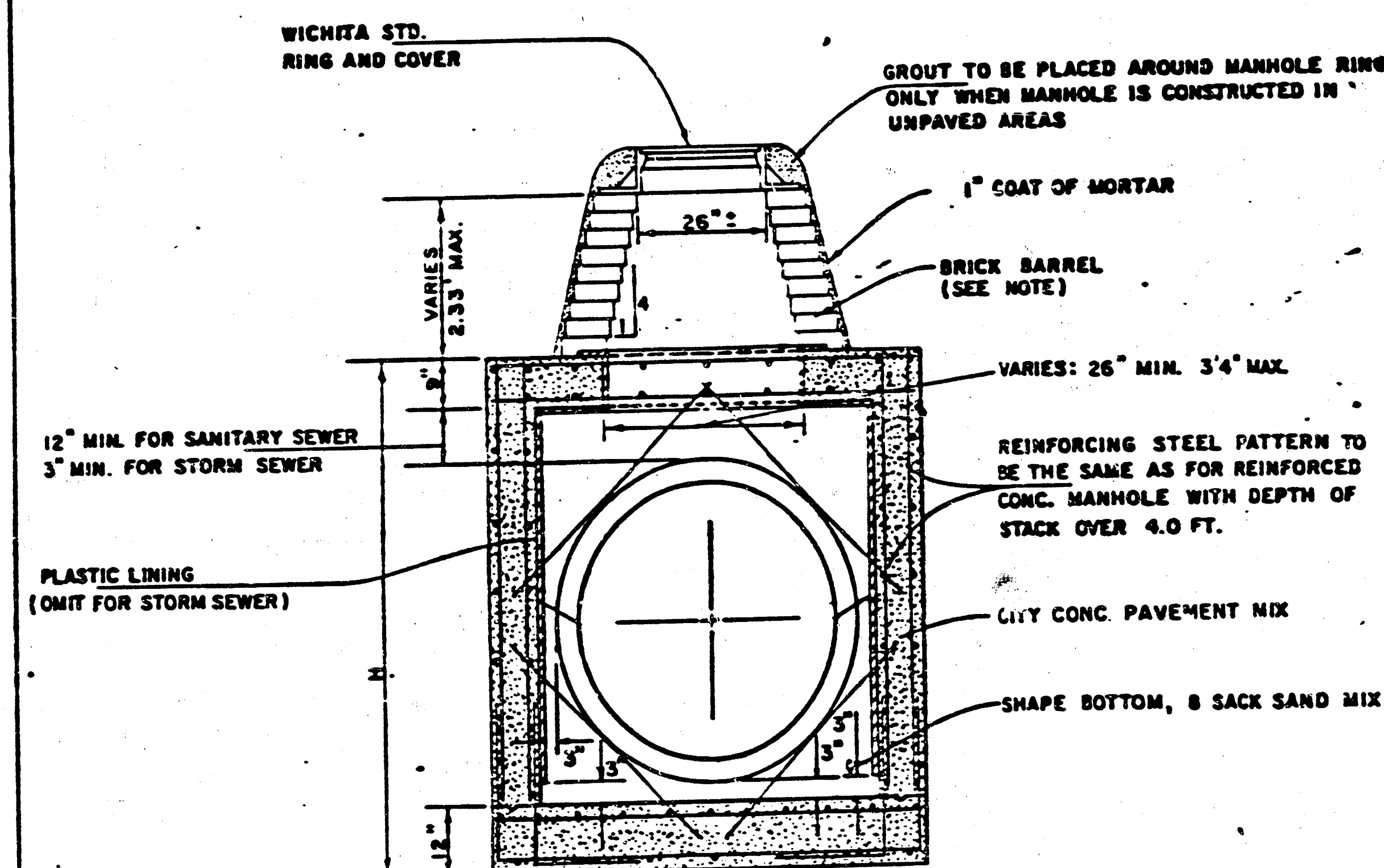


R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT.



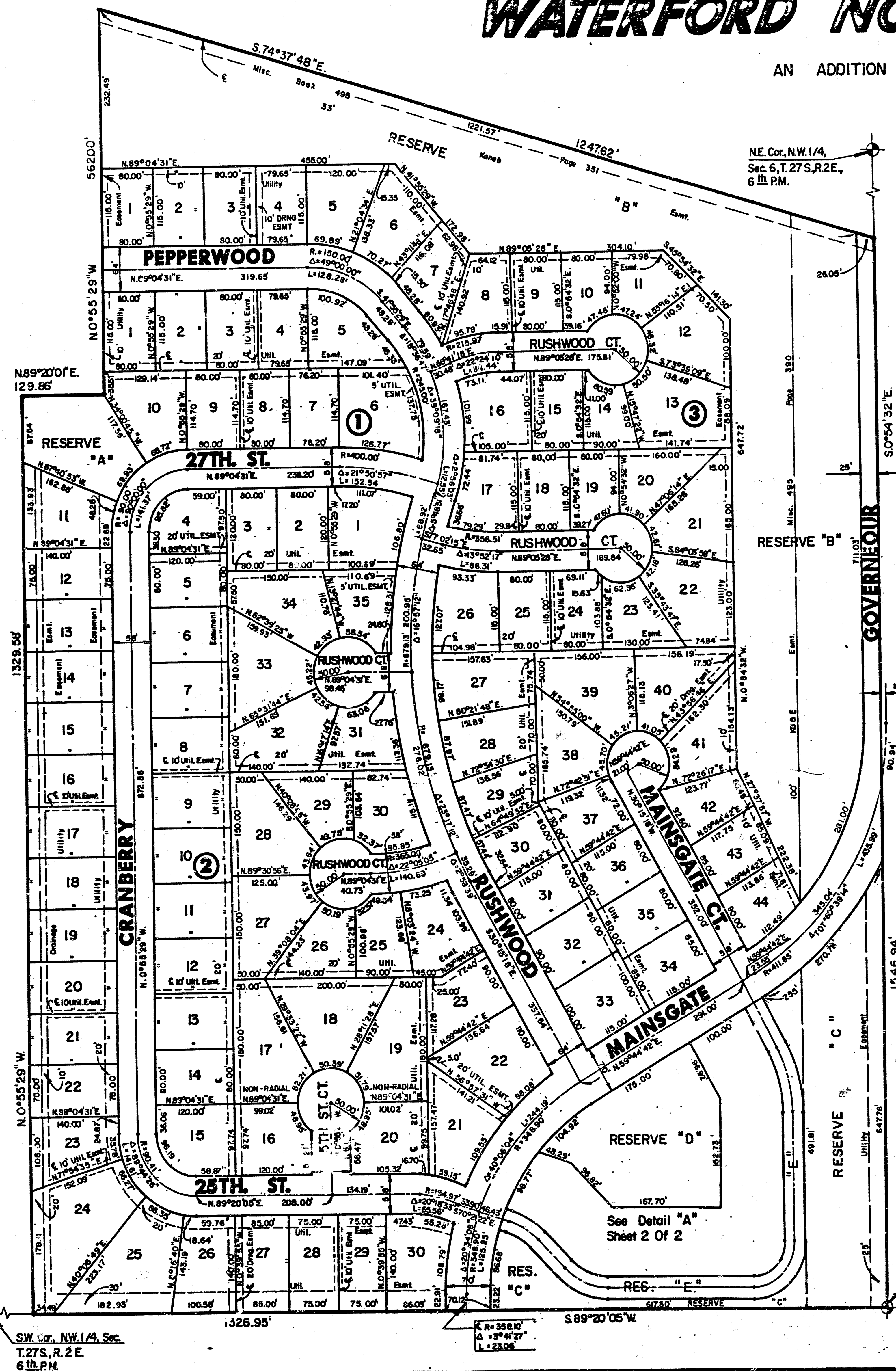
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

STANDARD DETAILS REINFORCED CONCRETE MANHOLES

CITY OF WICHITA
PROJ. NO. 468-76-245-80001-000-000-007
FEBRUARY 1984

FINAL PLAT OF WATERFORD NORTH THIRD ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

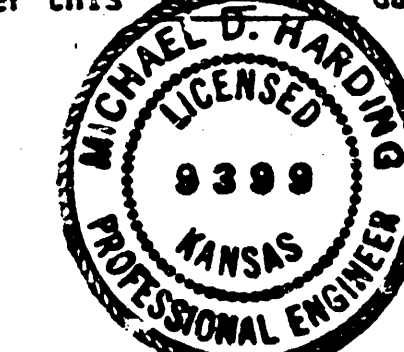


I, Michael D. Harding, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WATERFORD NORTH THIRD ADDITION", an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, Streets and Reserves, the same being accurately set forth in the accompanying plot and described herein:

A replat of "Pepperwood Second Addition", an addition to Wichita, Sedgwick County, Kansas, located within the northwest quarter of Section 6, Township 27 south, Range 2 east of the 6th P.M.

All lots, easements, building setbacks and streets 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 6th day of January, 1986.

Michael D. Harding
Michael D. Harding
Mid-Kansas Engineering Consultants, P.A.
356 N. Rock Road, Bldg. 800
Wichita, KS 67226



Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platted into lots, blocks, streets and reserves, the same to be known as "WATERFORD NORTH THIRD ADDITION" an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for construction and maintenance of public utilities and drainage are hereby granted. Reserves are platted for the use of landscaping, utilities, drainage, recreation and open space. Reserve "A" is being platted for construction and maintenance of public utilities, drainage, and a private street. The reserves shall be owned and maintained by the Homeowners' Association. The maintenance easements are granted for access by the adjoining property owner for maintenance of their structures and for a 2.0 foot roof overhang. Building setbacks shall be as shown on the Comotara Residential Community Unit Plan (DP-73) on file at the Wichita-Sedgwick County Planning Department Office, 10th floor, 455 N. Main, Wichita, Kansas.

Landmark Communities, Inc.

Robert R. Fox
Robert R. Fox
President
Landmark Communities, Inc.

STATE OF KANSAS
COUNTY OF SEDGWICK

Be it remembered that on this 23rd day of January, 1986, before me, a Notary Public in and for said State and County, came the Landmark Communities Inc. by Robert R. Fox, President, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same, on behalf of the Corporation. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Carolyn R. Owen, Notary Public
Carolyn R. Owen

My Appointment Expires: My Appointment Expires 12/20/1995

We the Fourth National Bank & Trust, Wichita, Kansas, mortgagees on the above described property do hereby consent to the plat of "Waterford North Third Addition".

The Fourth National Bank & Trust

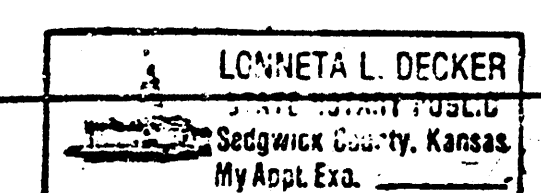
J.D. Newman

STATE OF KANSAS
COUNTY OF SEDGWICK

Be it remembered that on this 6th day of January, 1986, before me, a Notary Public in and for said State and County, came the Fourth National Bank & Trust, Wichita, Kansas, by J.D. Newman, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same, on behalf of the Corporation. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Notary Public

My Appointment Expires: My Appointment Expires 12/20/1995



This plat of "WATERFORD NORTH THIRD ADDITION" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 29th day of November, 1986.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James C. Wilson, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 19th day of February, 1986.

Robert G. Knight, Mayor

Donald C. Glick, City Clerk

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas, this 12th day of February, 1986.

Donald E. Gragg, Chairman

Bernard A. Hentzen, Commissioner

Tom Scott, Commissioner

Attest: Don Wright, County Clerk

Entered on transfer record this 13th day of February, 1986.

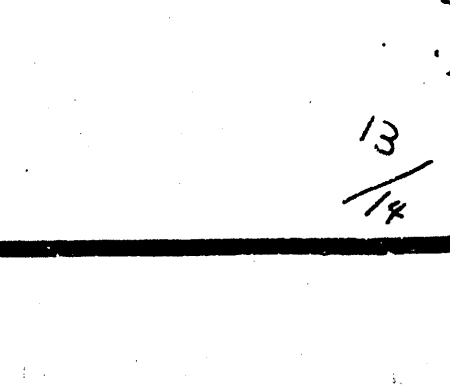
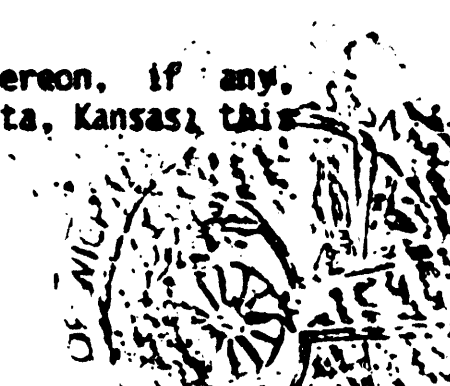
Don Wright, County Clerk

STATE OF KANSAS
COUNTY OF SEDGWICK

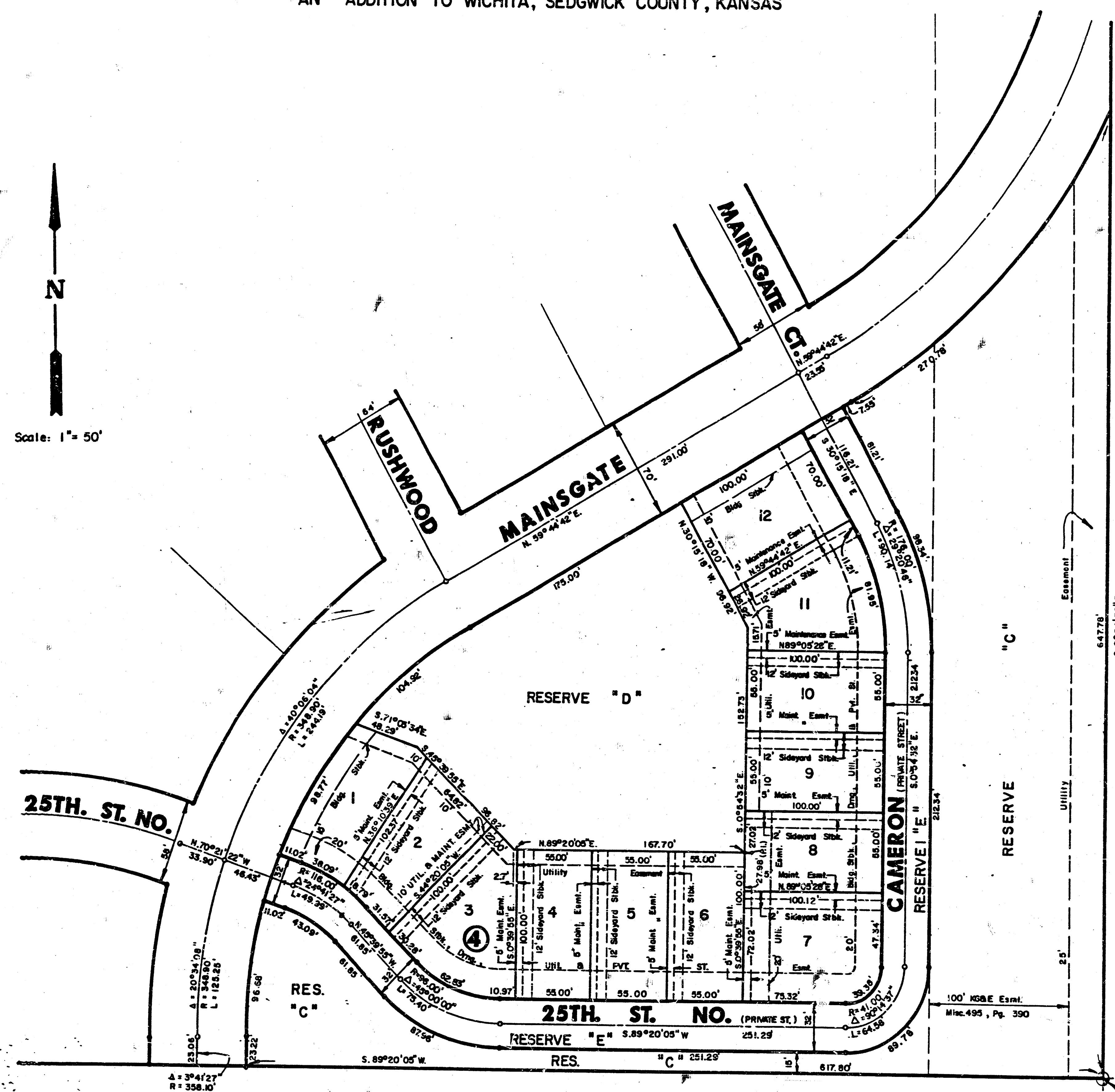
This is to certify that this instrument was filed for recording in the Register of Deeds Office at 1:00 PM 13th day of February, 1986.

Pat Kettler, Register of Deeds

Ed Reso, Deputy



AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



DETAIL "A"

M-1 7-26B