

STORM SEWER PLANS FOR S.W.S. NO. 281

WATERFORD NORTH THIRD (PHASE 2)

PROJECT NO. 468-76-245-81435-000-000-001

CITY OF WICHITA, KANSAS
MIKE LINDEBAK, CITY ENGINEER
MARCH 1986

GENERAL NOTES

1. 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.
2. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
3. 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.

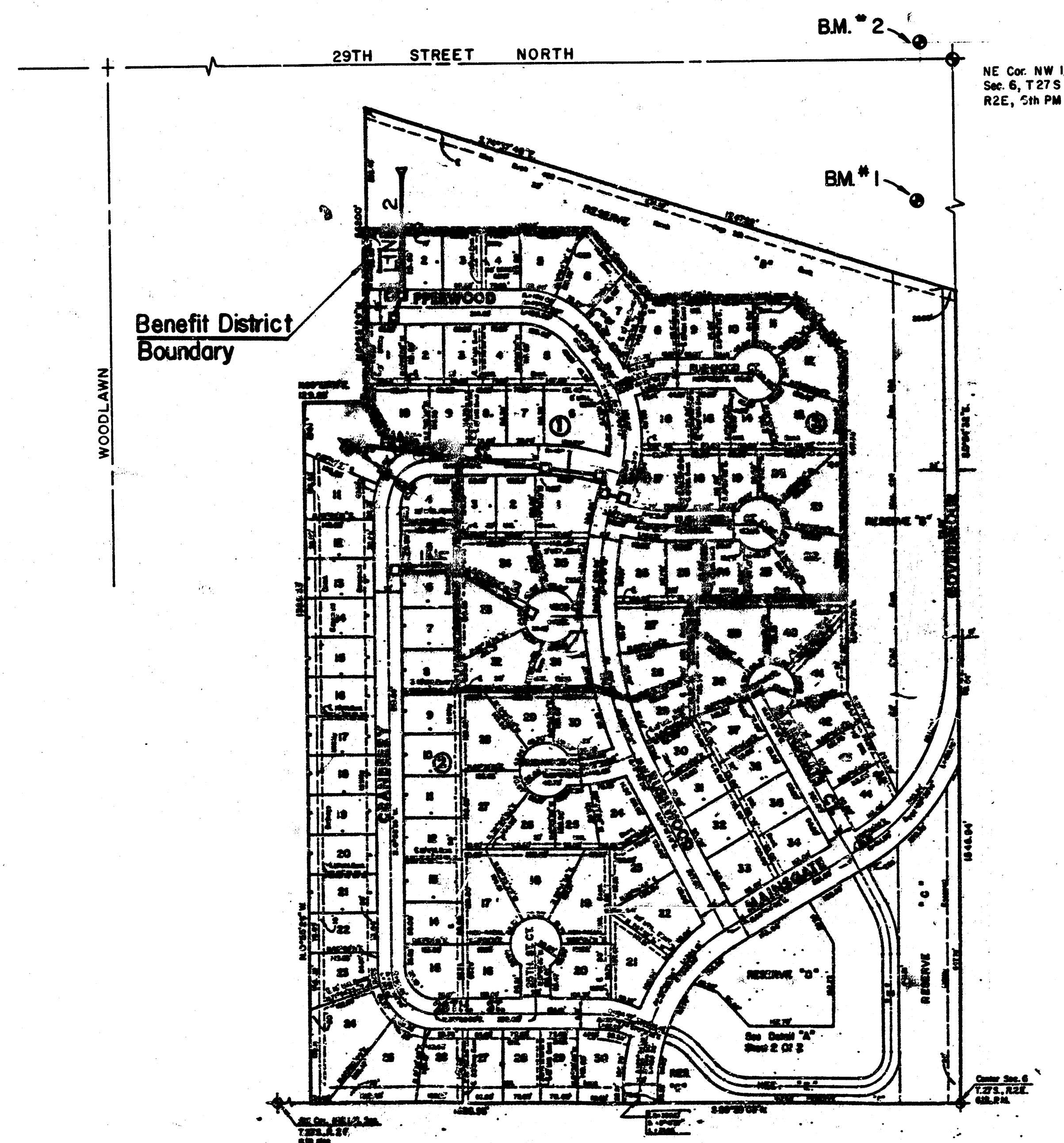
NOTE:

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE	1-316-571-2115
CABLEVISION	262-0661
GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	
KANSAS ONE-CALL	1-800-344-7233

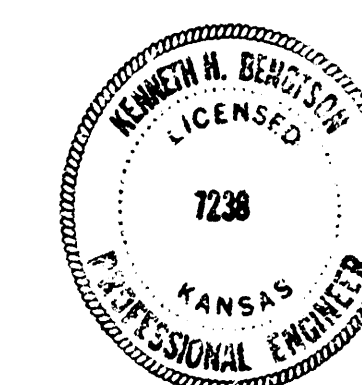
BENCH MARKS

1. Railroad spike west face of west pole
Second H-pole south of 29th
Elev. = 191.85'
2. Gouverneur & 29th St. North
City of Wichita BM Disc, 75' west
& 30.3' north of quarter section corner;
& 55' N & 85' W of CL of pavement at
Gouverneur & 29th.
Elev. = 162.57'



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LINE 1
3	LINE 2
4	LINE 3
5-7	DETAILS
8-9	FINAL PLAT



**WATERFORD N. THIRD
STORM WATER SEWER
PLANS**

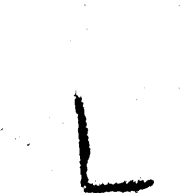
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226

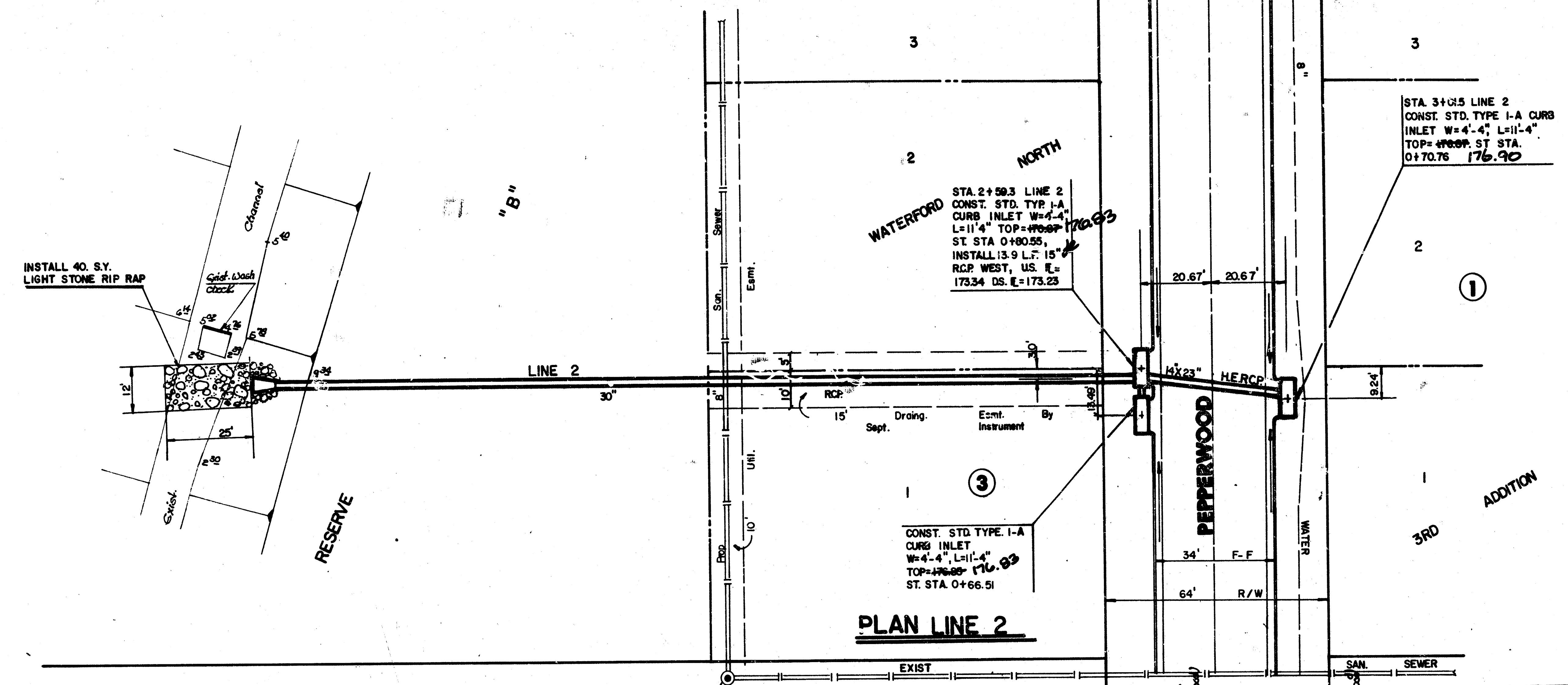
682-6561

Design: A.M.S.
Drawn by: E.G.
Checked by:
Date:
Job no.:

Sheet **5**
of **18**

7

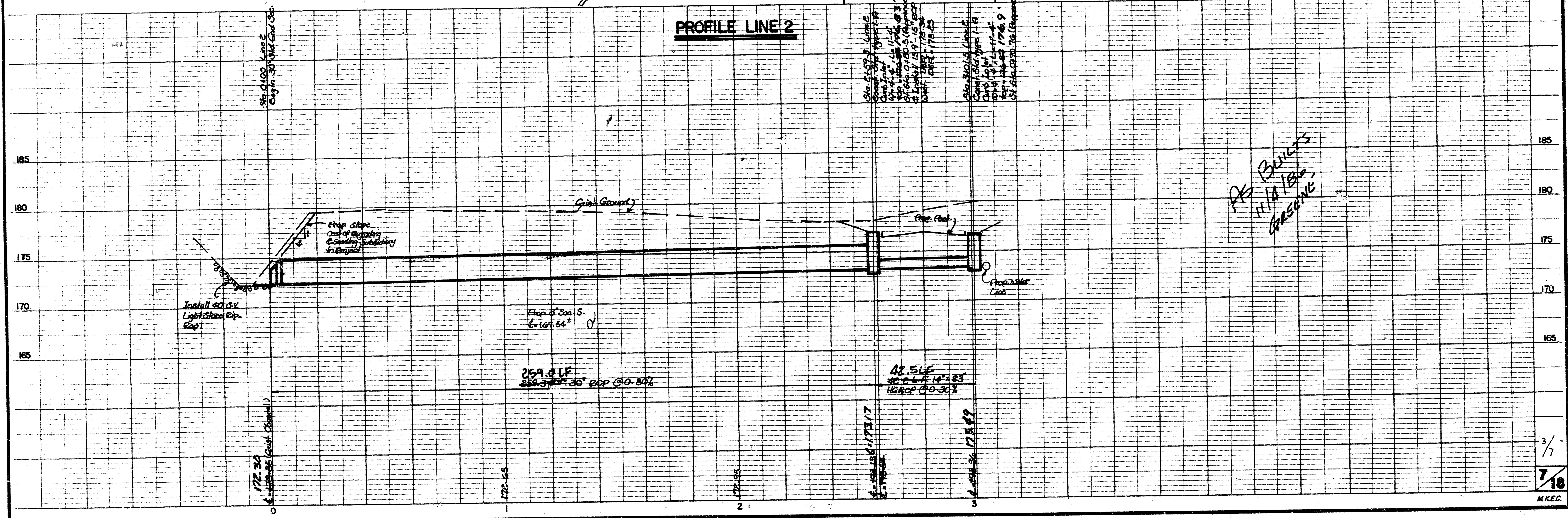


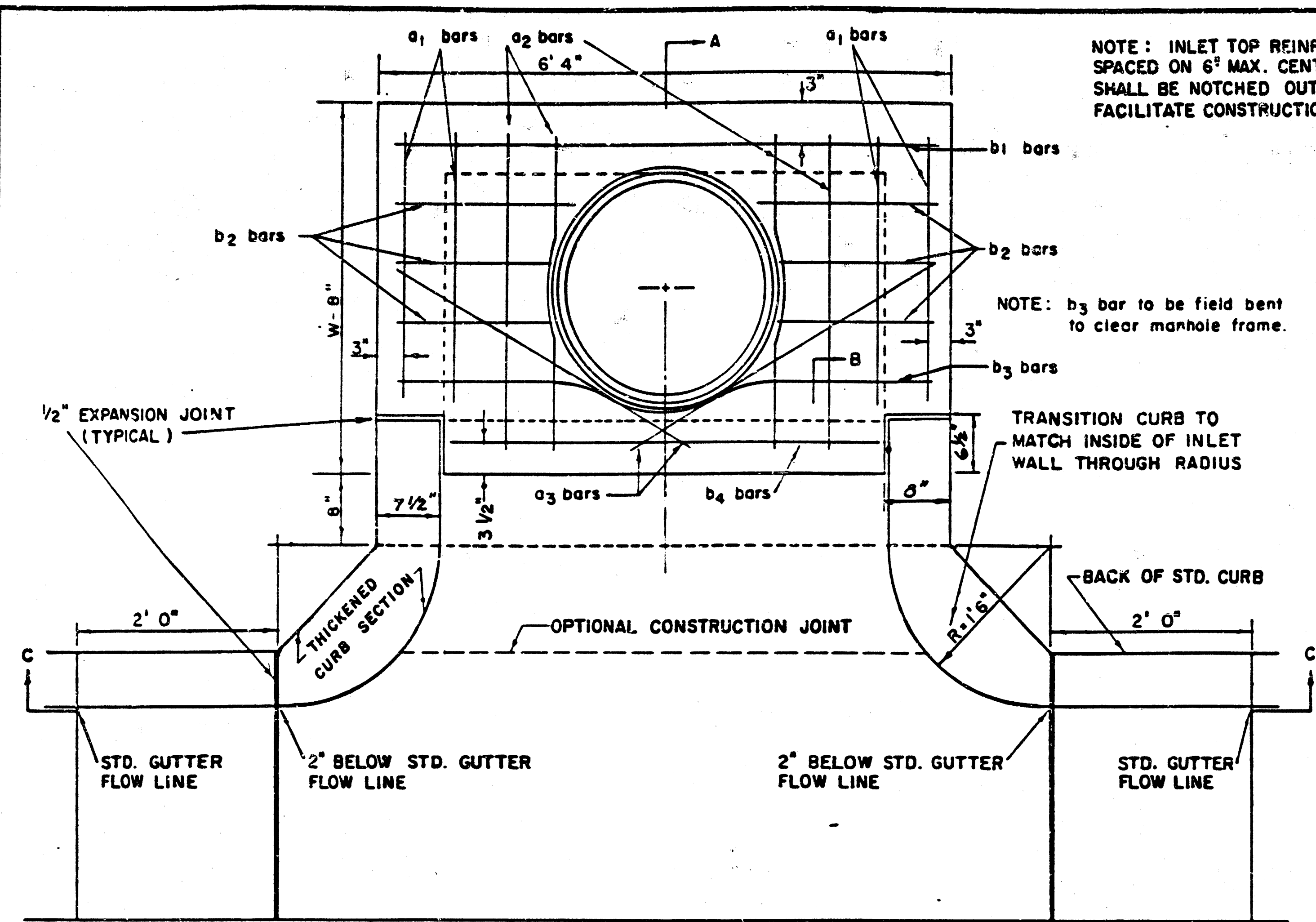


SCALE: 1" = 20' (HORZ)
1" = 5' (VERT)

PLAN LINE 2

PROFILE LINE 2



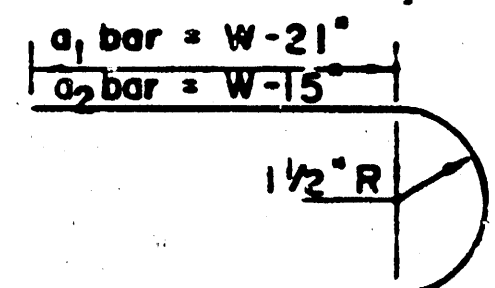


STEEL SCHEDULE

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

BENDING DIAGRAM



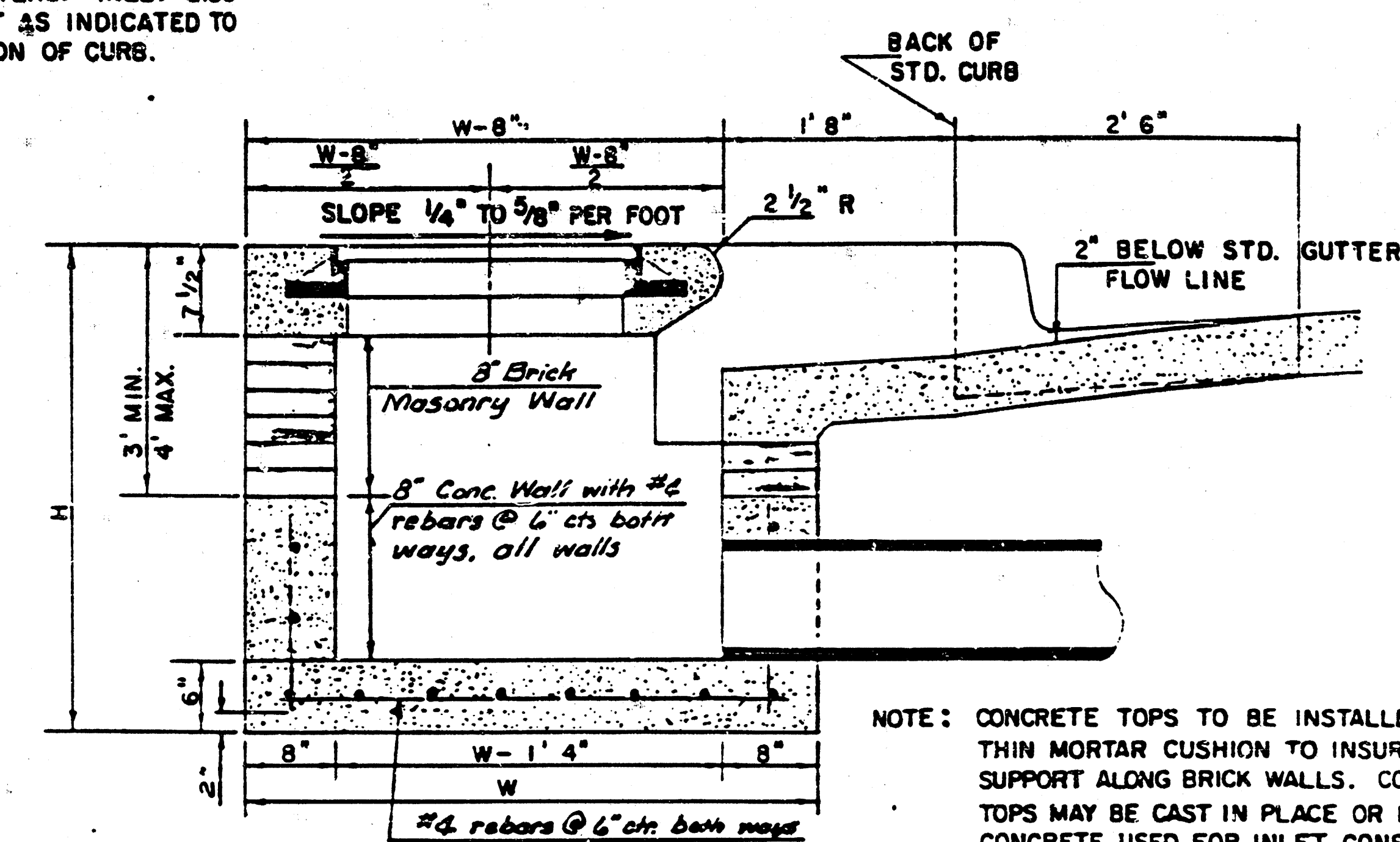
STANDARD CURB INLET PRECAST TOPS

W	PRECAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	3' 6" x 6' 4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4' 6" x 6' 4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	5' 6" x 6' 4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	6' 6" x 6' 4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	7' 6" x 6' 4" x 7 1/2"	60" & 66"	0.90 ±

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



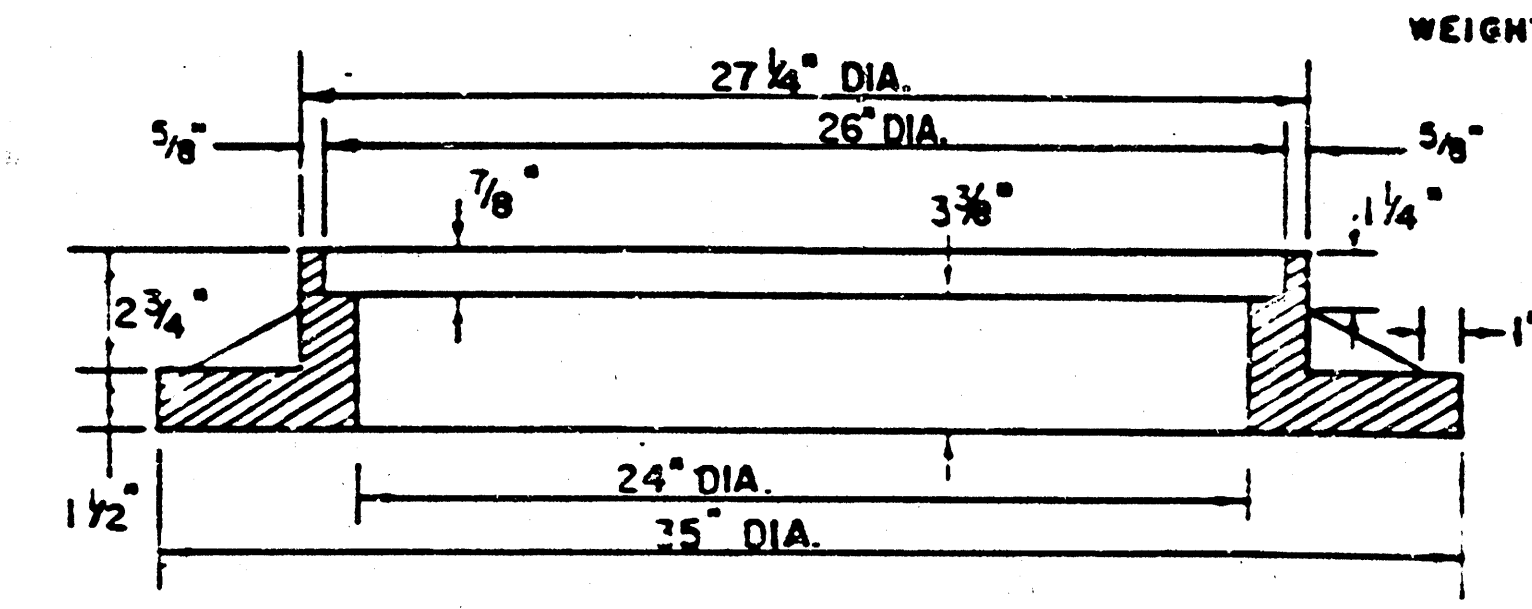
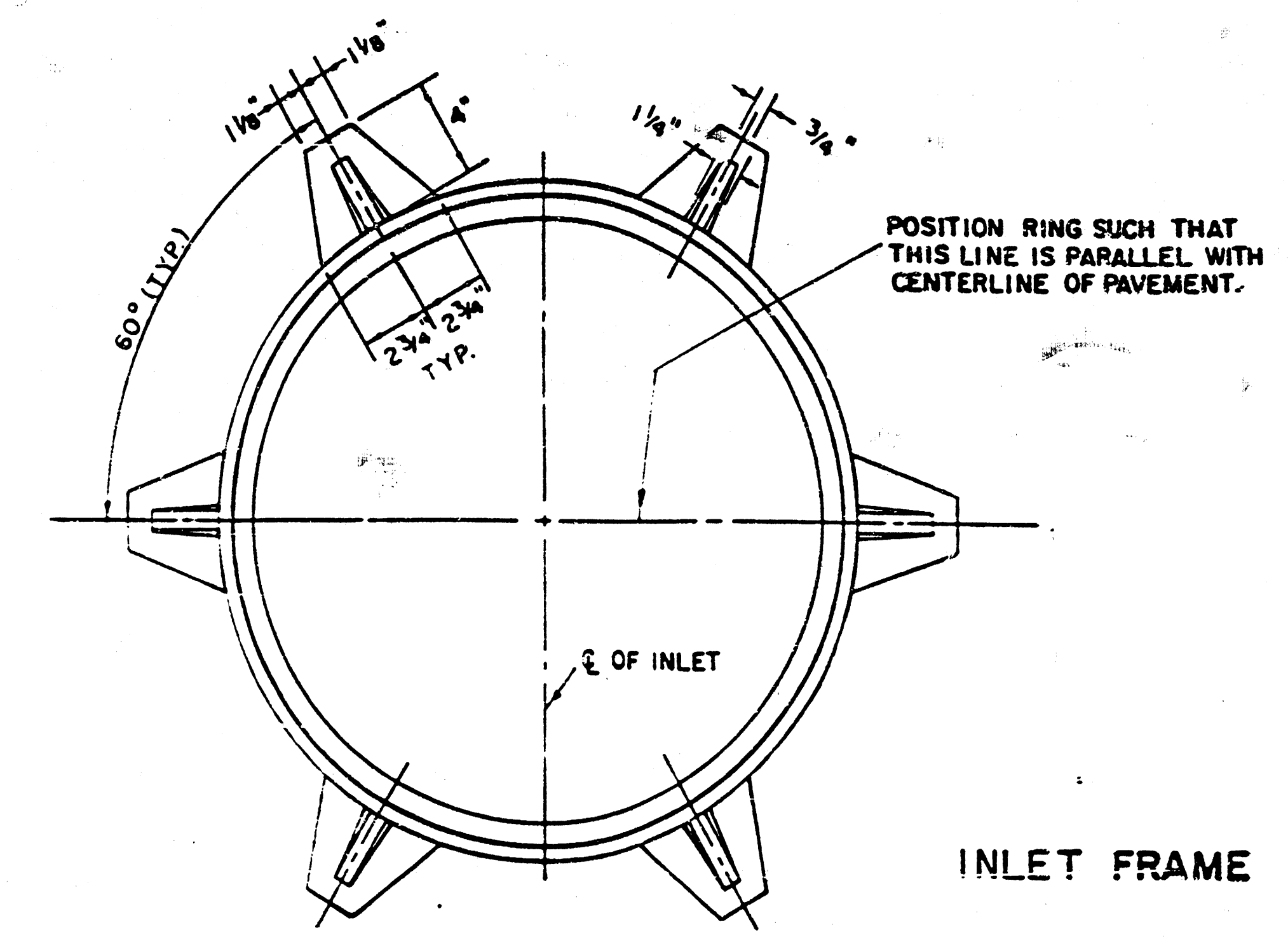
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

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

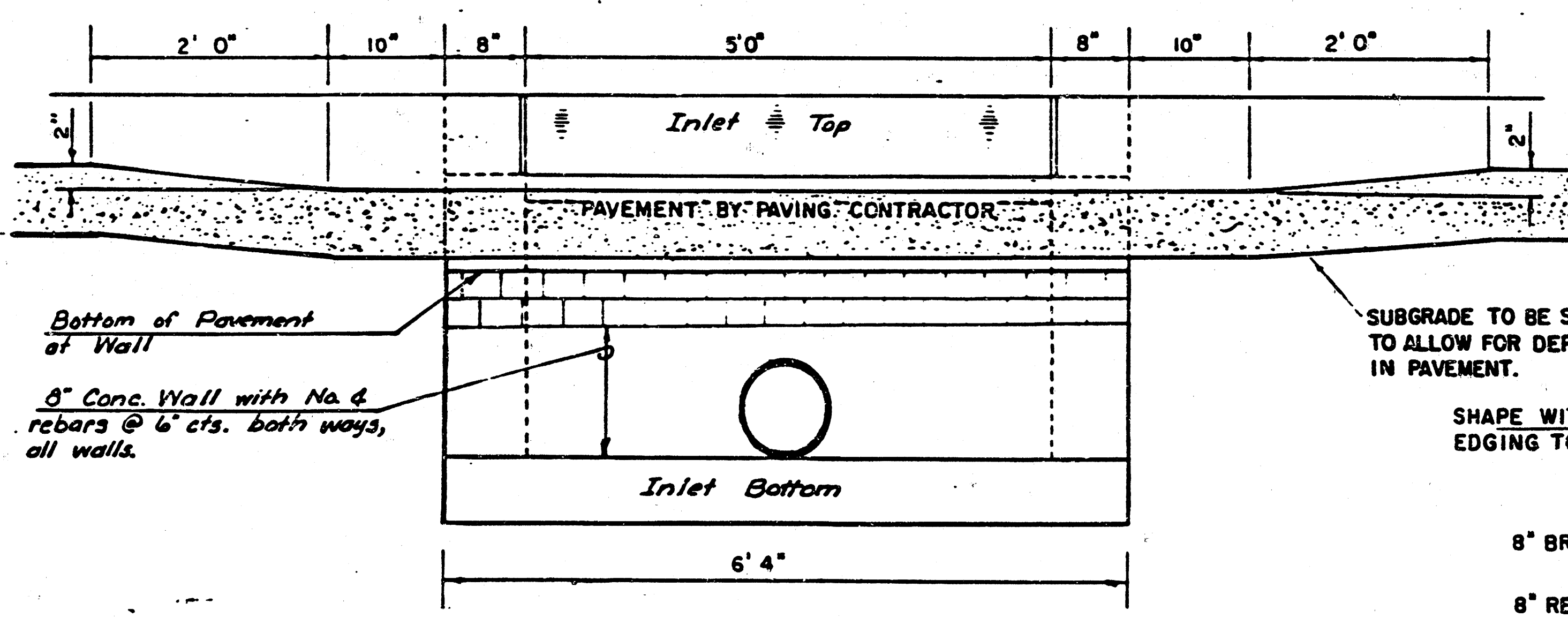
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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 CLEANING 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.



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



Bottom of Pavement at Wall

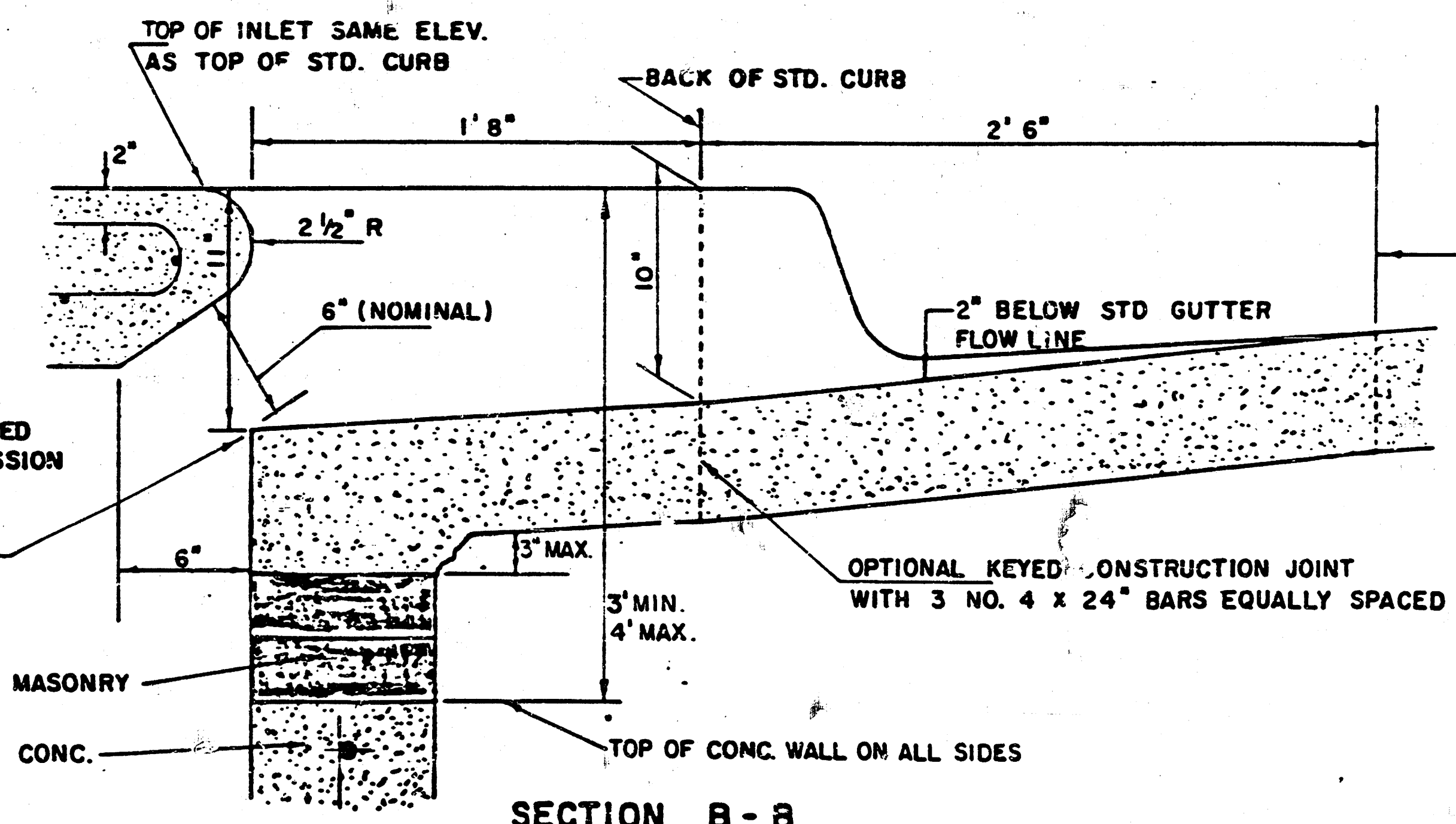
8" Conc. Wall with No. 4 rebar @ 6" cts. both ways, all walls.

SUBGRADE TO BE SHAPED TO ALLOW FOR DEPRESSION IN PAVEMENT.

SHAPE WITH EDGING TOOL

8" BRICK MASONRY

8" REINF. CONC.



LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

OPTIONAL KEYED CONSTRUCTION JOINT WITH 3 NO. 4 x 24" BARS EQUALLY SPACED

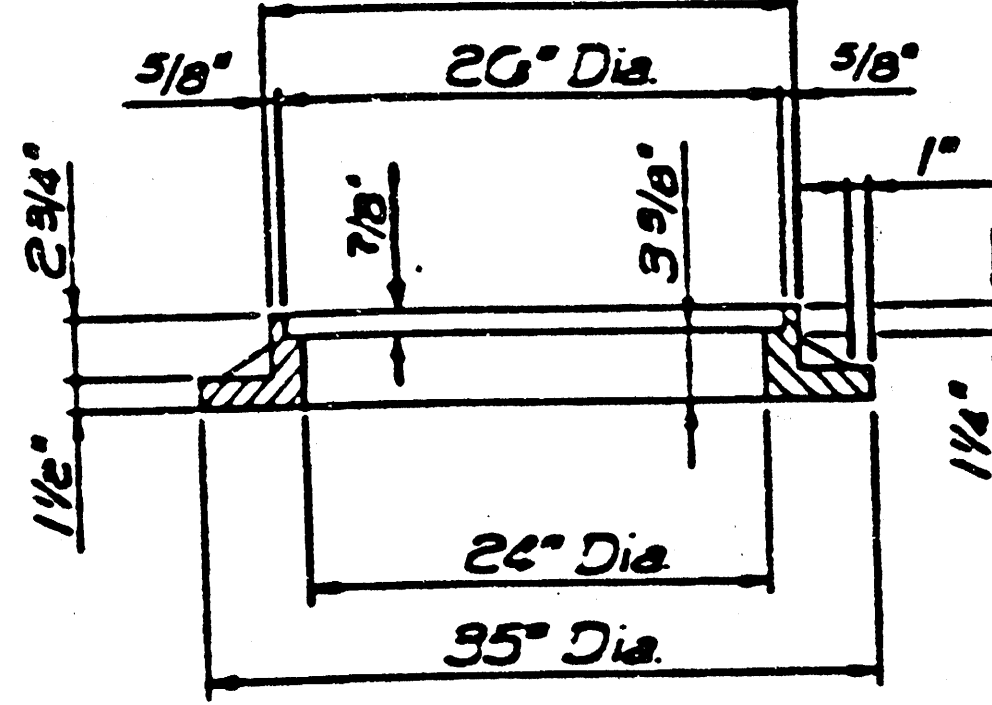
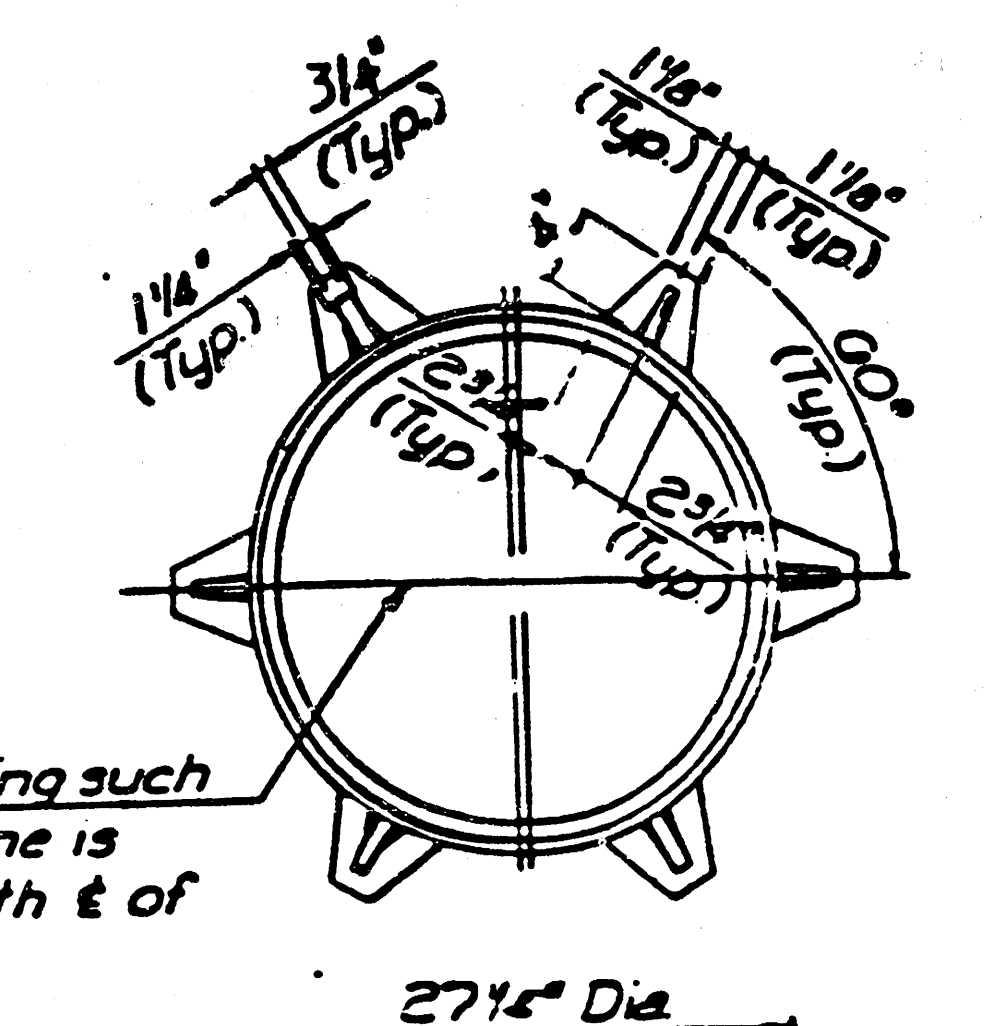
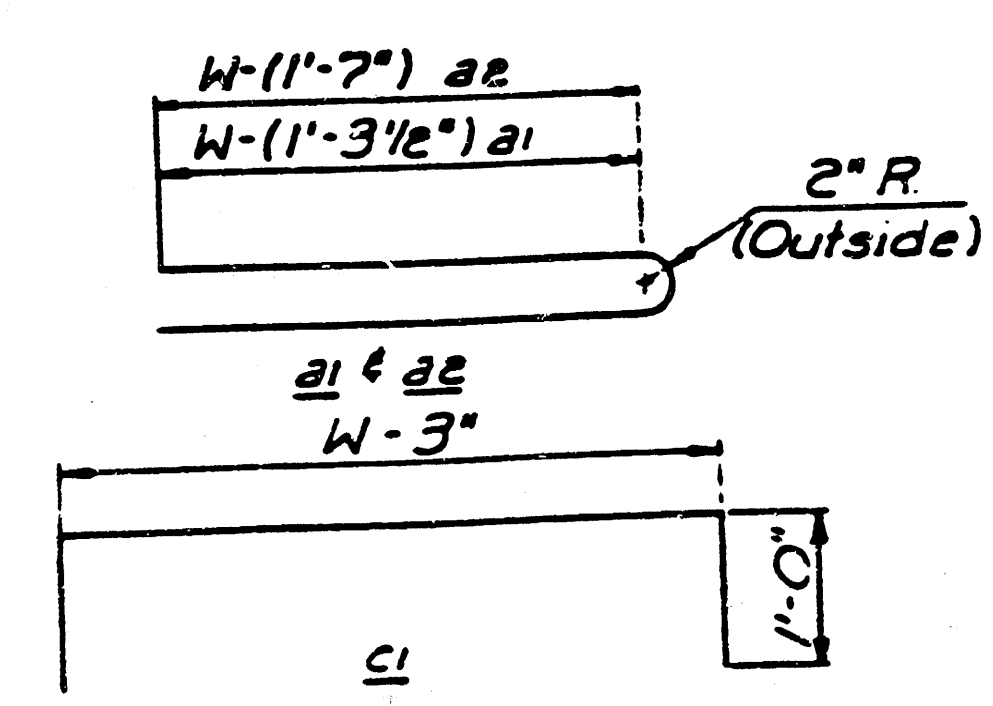
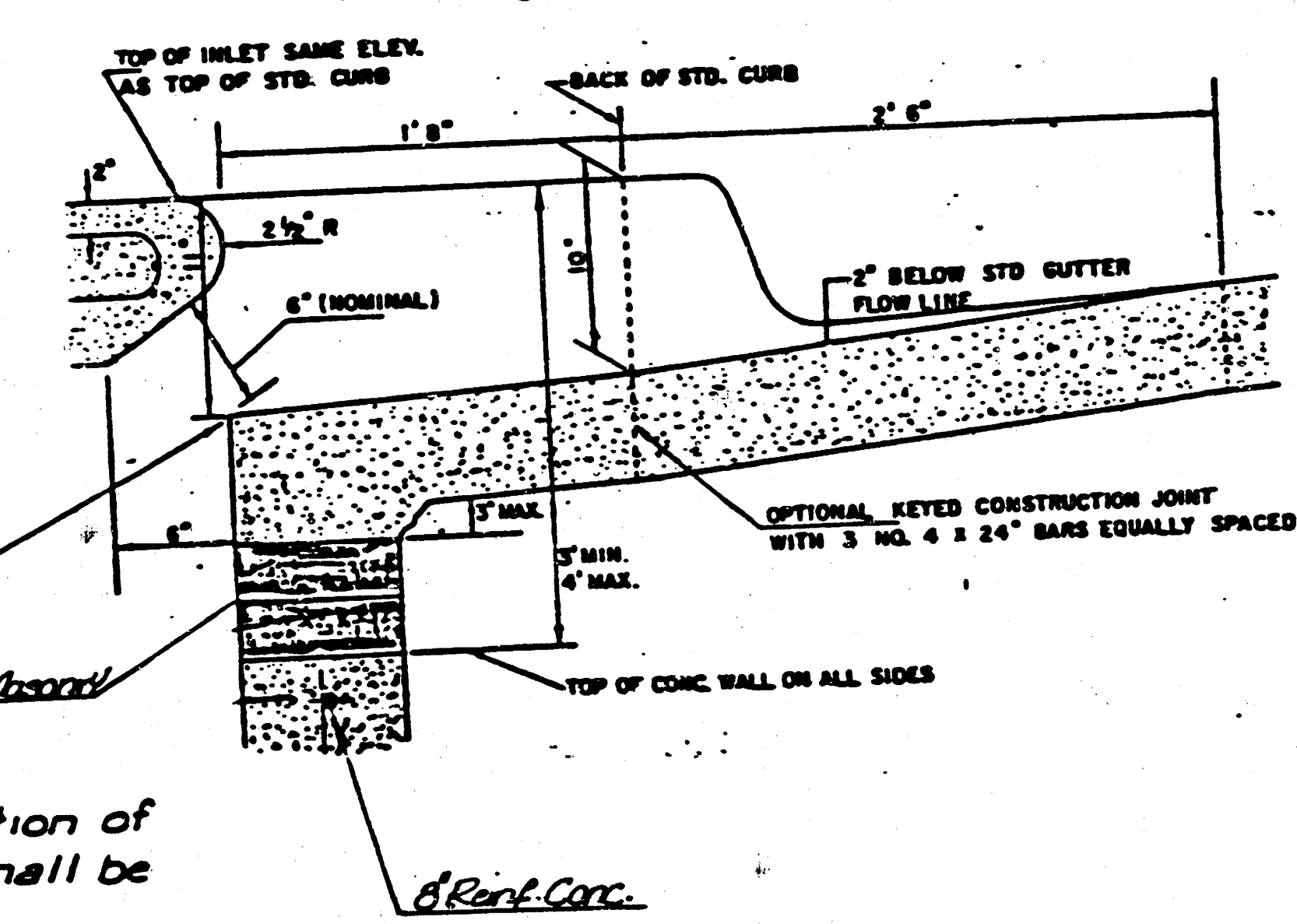
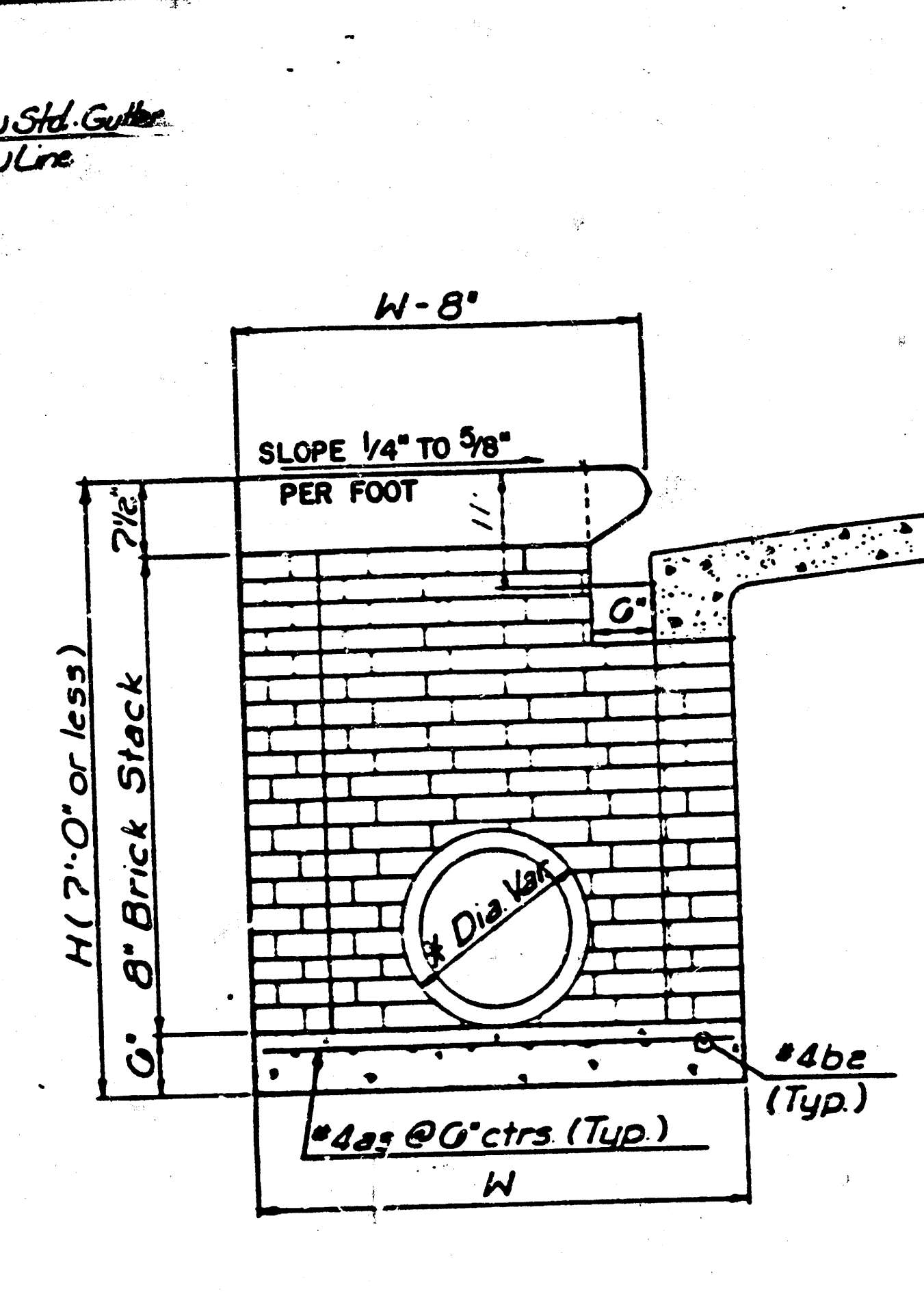
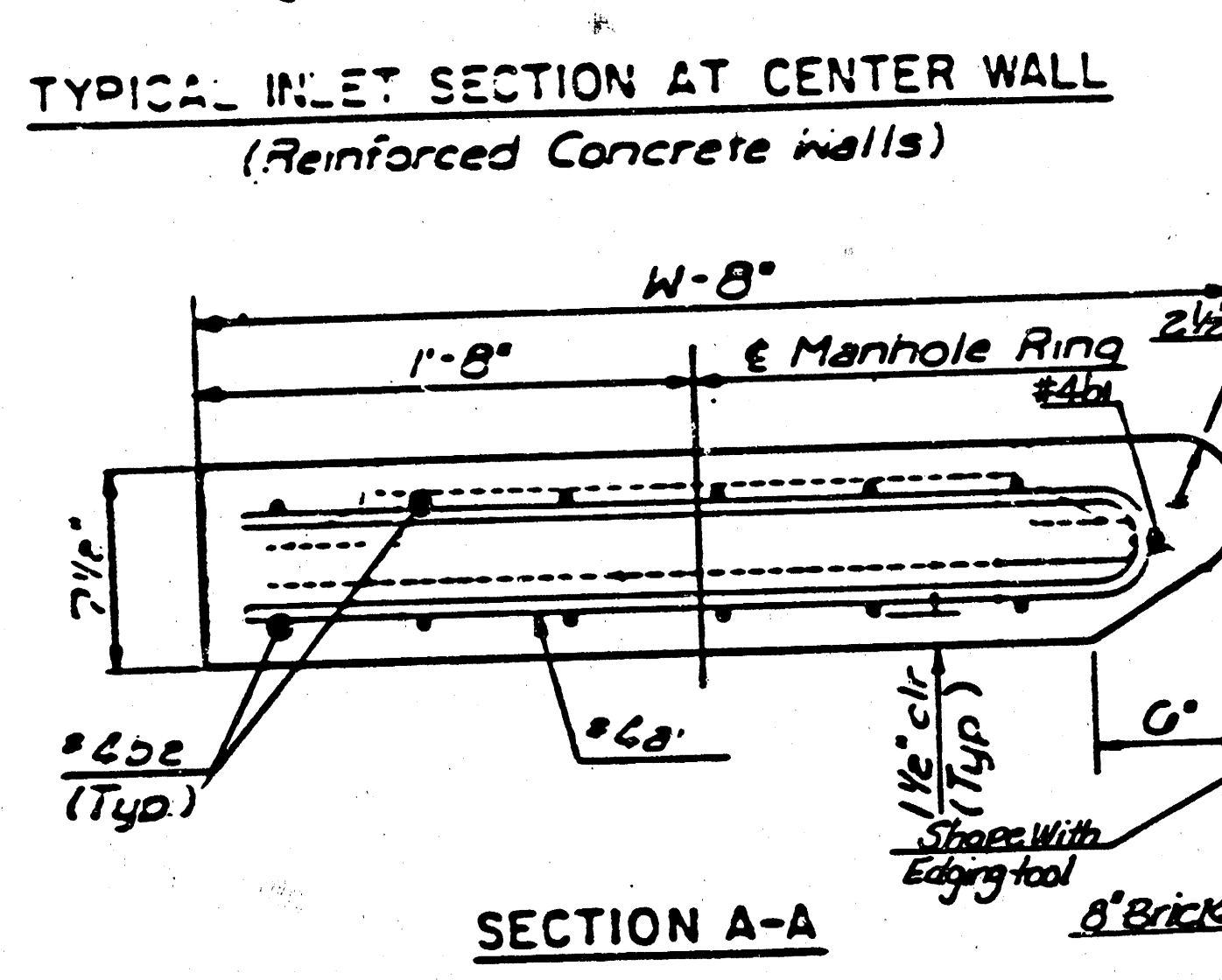
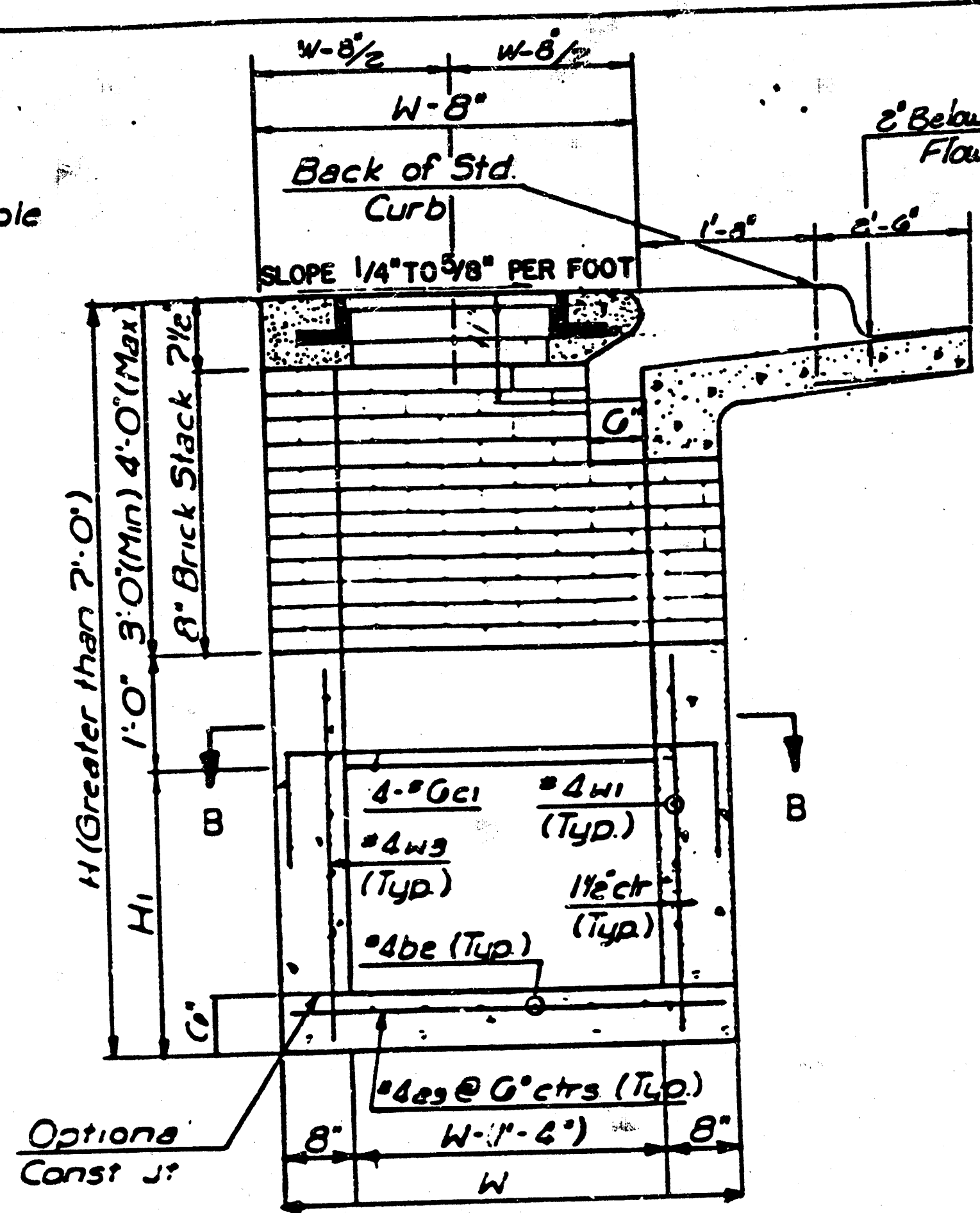
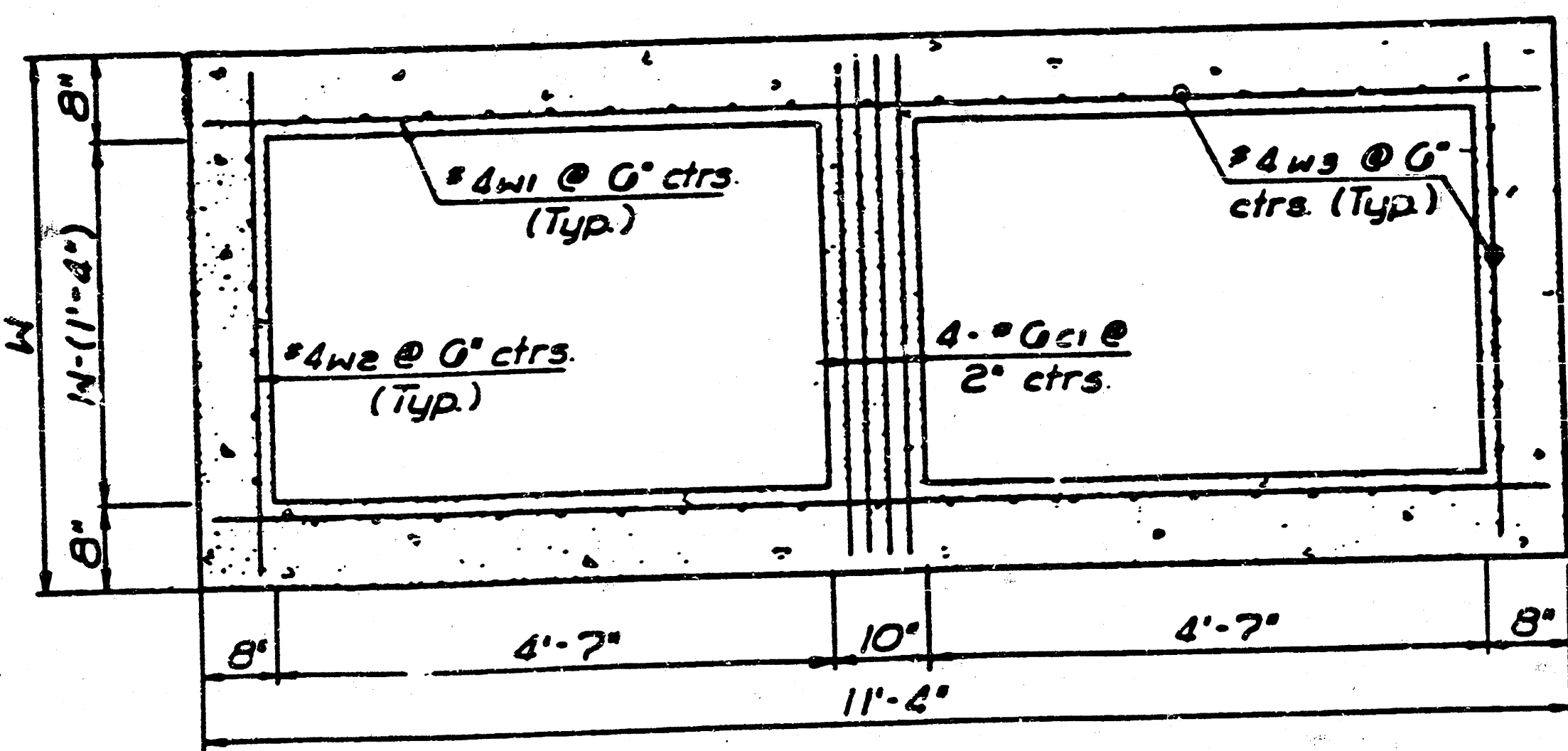
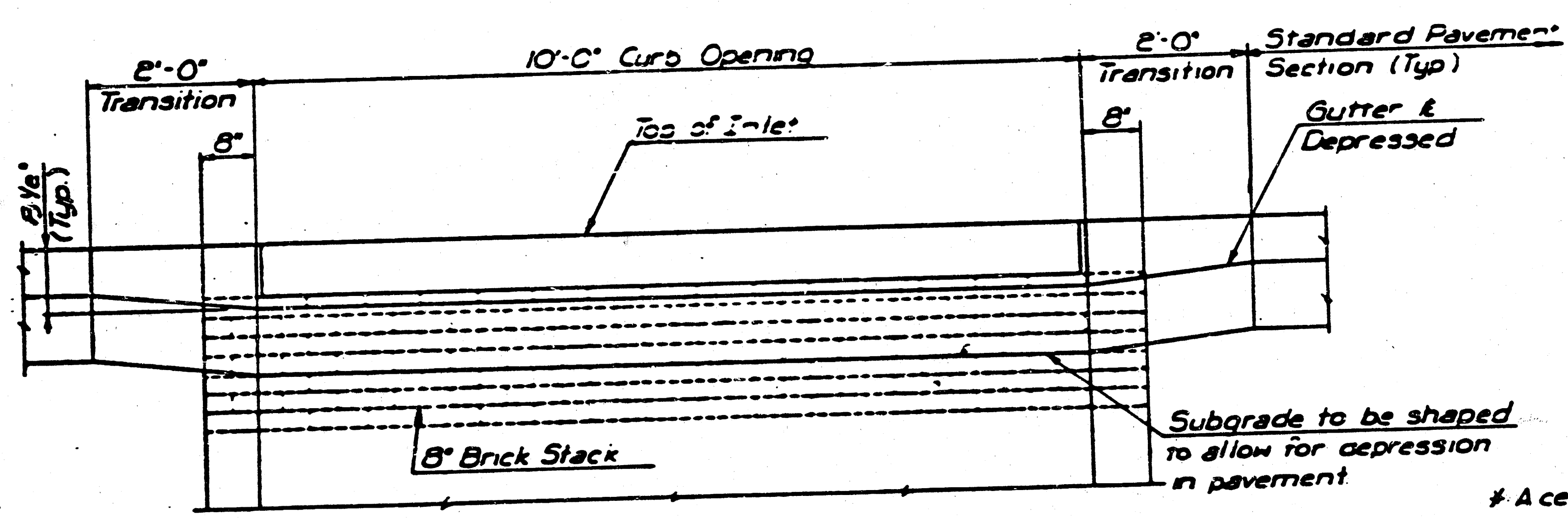
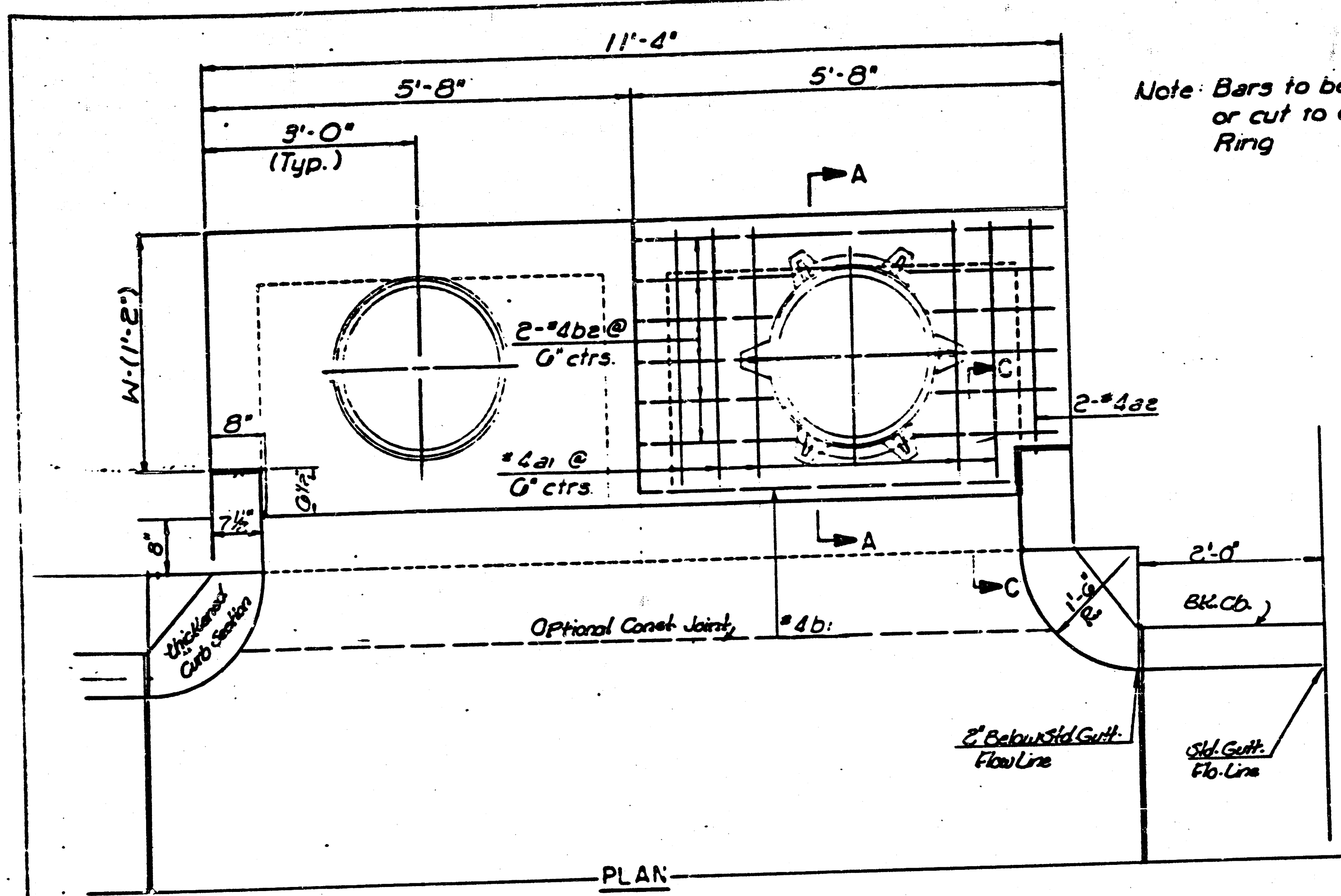
REVISED 12-21-1984

DETAIL STANDARD TYPE 1A CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

JUNE 1984



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 C.O.W. Standard Raving 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.

SLAB AND FLOOR REINFORCING											
Mark	Size	No	Length	No	Length	No	Length	No	Length	No	Length
a1	#4	13	8'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
a2	#4	2	6'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"
b2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

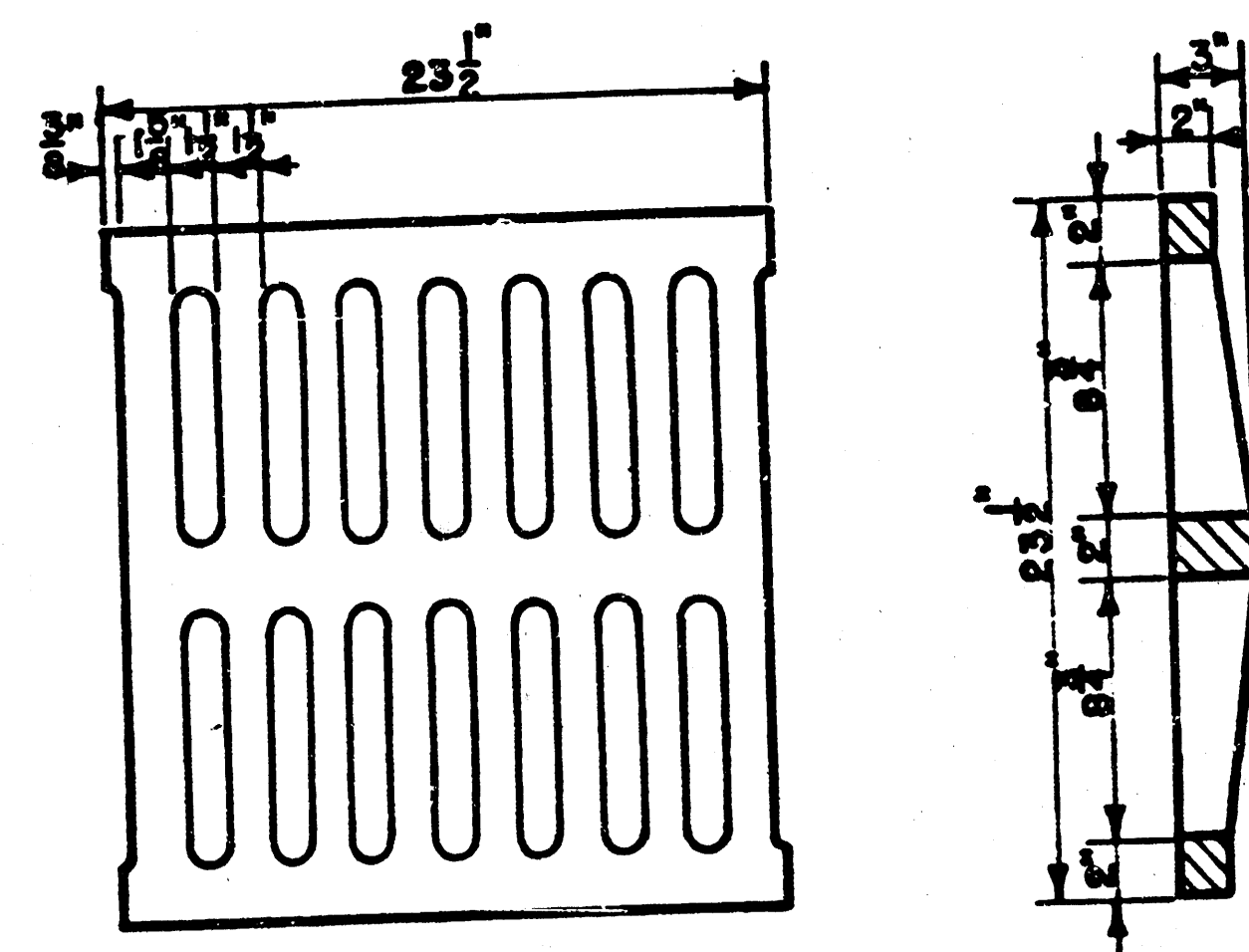
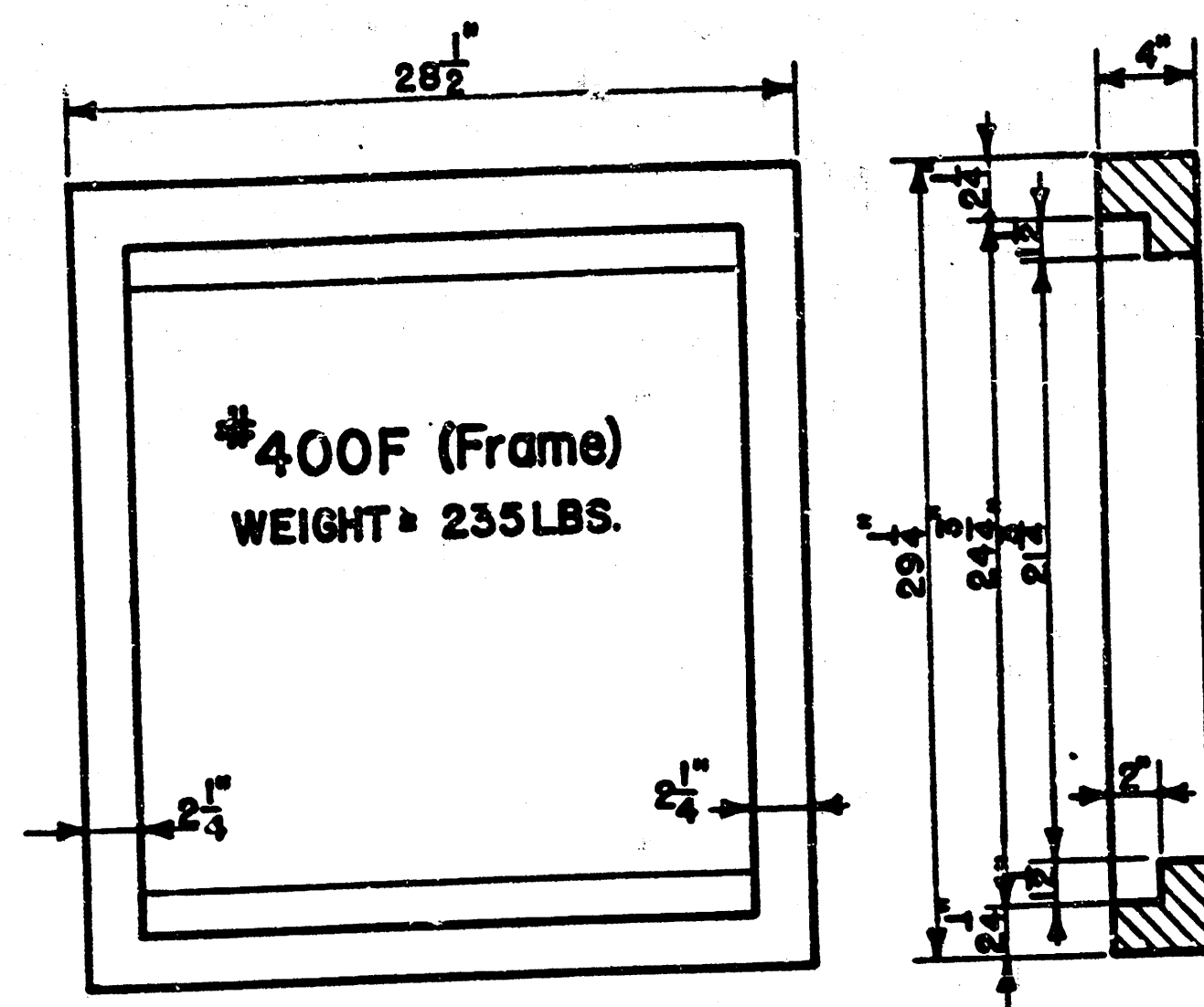
WALL REINFORCING											
Mark	Size	No	Length	No	Length	No	Length	No	Length	No	Length
c1	#4	4	0'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
w1	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	2	3	2	3	2	3	2	3	2	3

* Field bend or cut Reinforcing as required for clearance

① 4 (H1-0") ② 40+4 (W-1) ③ H1-(D")

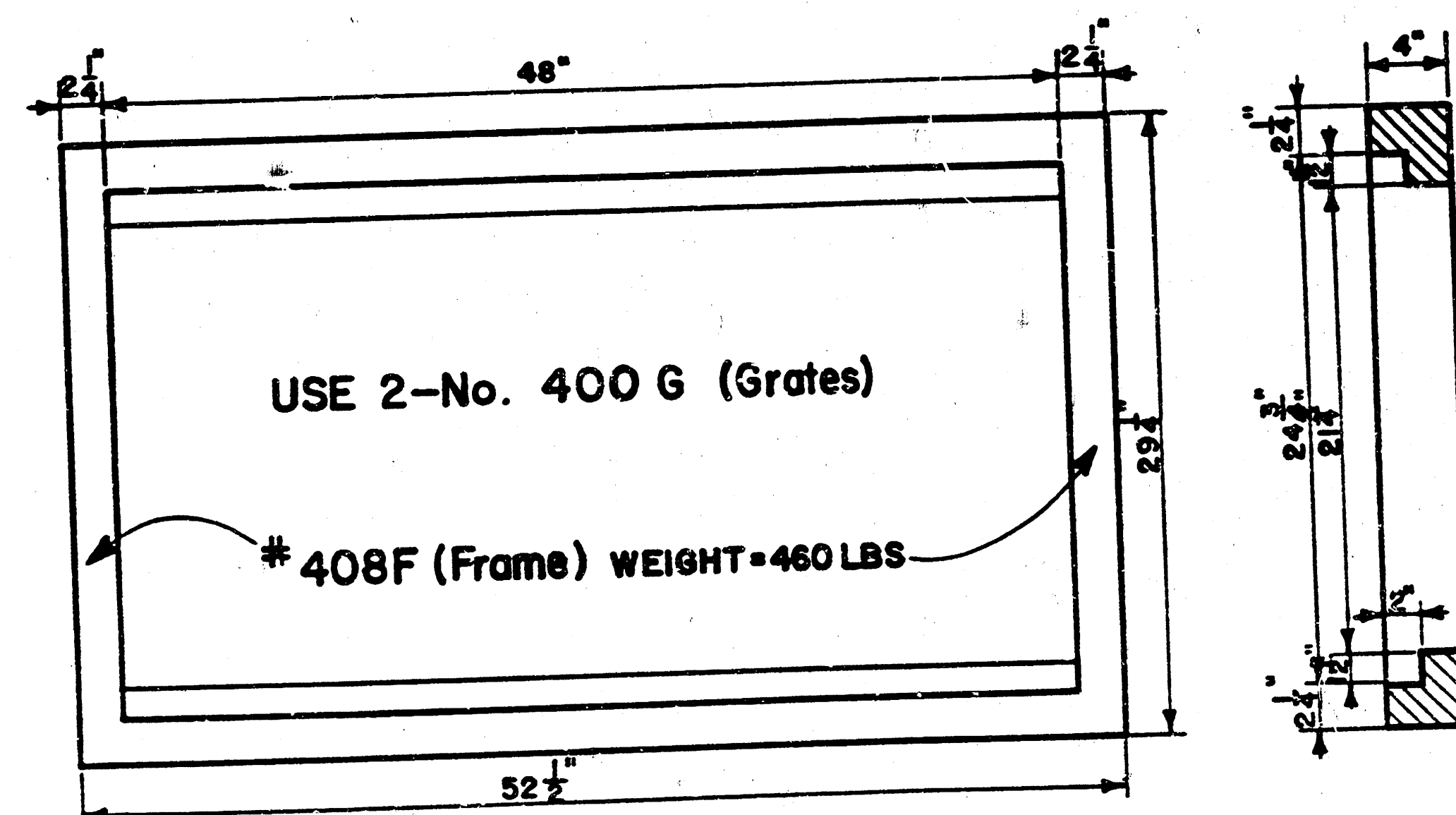
DETAIL STANDARD TYPE IA CURB INLET
INLET OPENING = 6' x 10'-0"
CITY OF WICHITA
M.E. LINDEBAK, CITY ENGINEER
OCTOBER 1984

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.

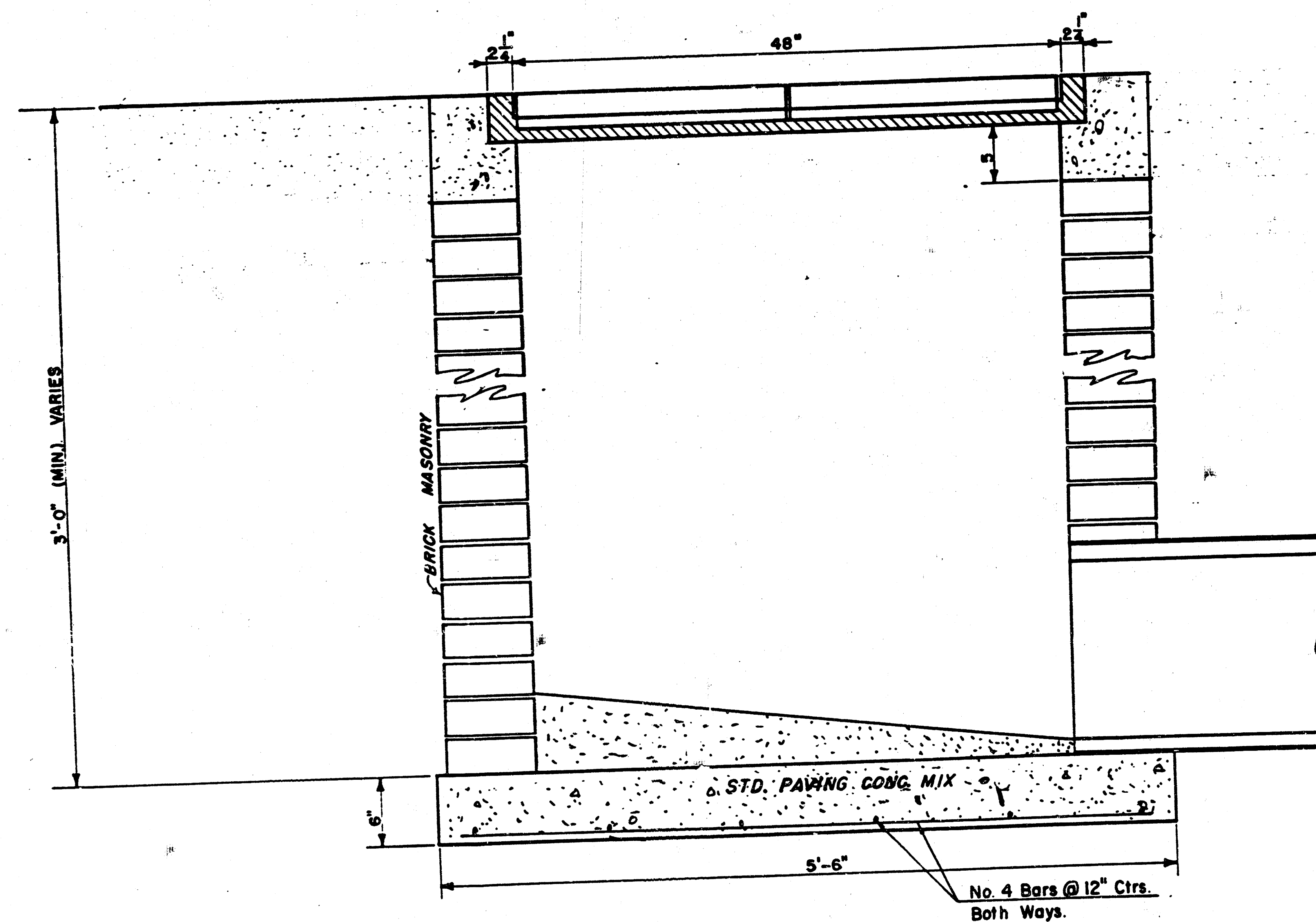
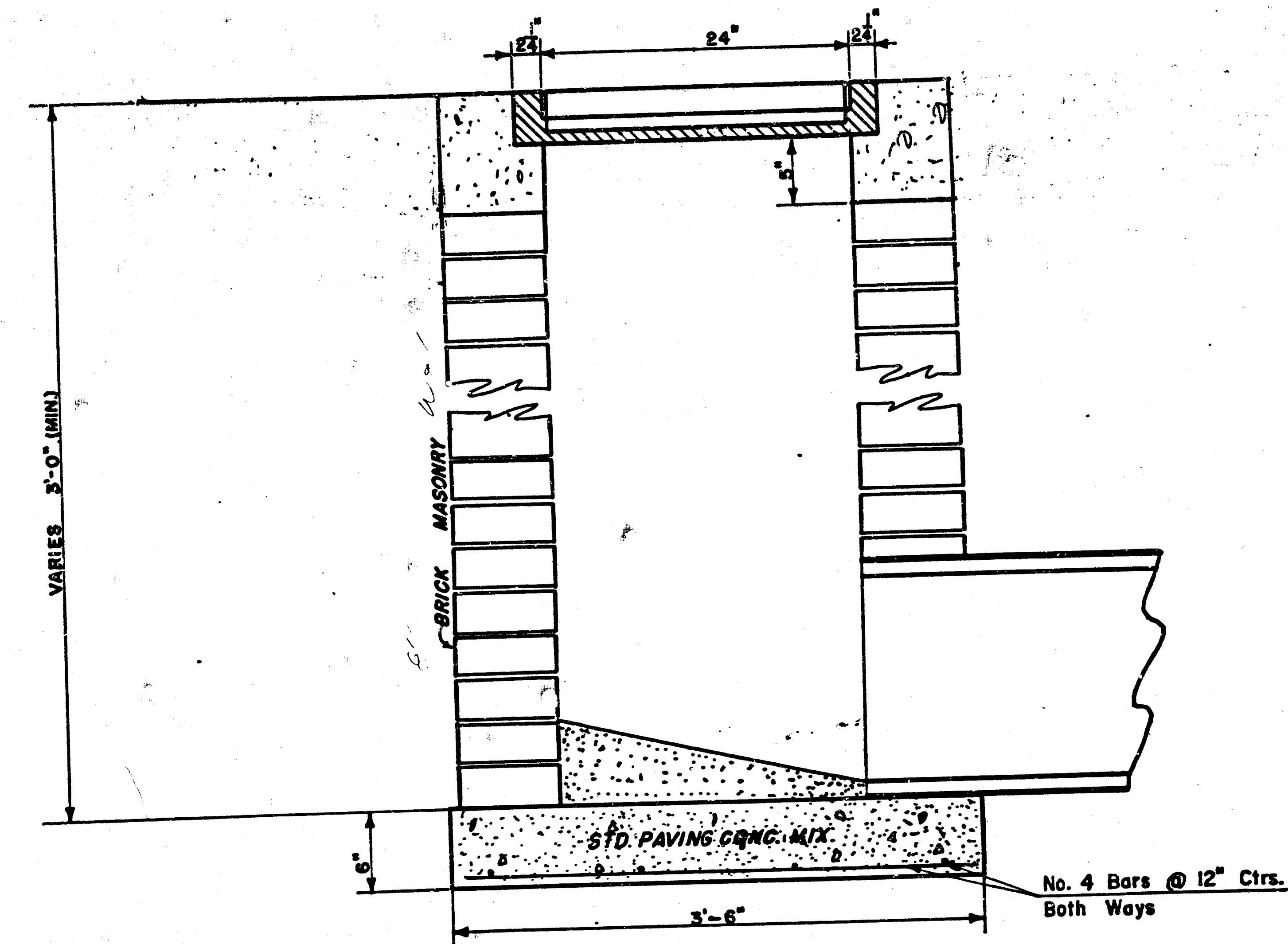
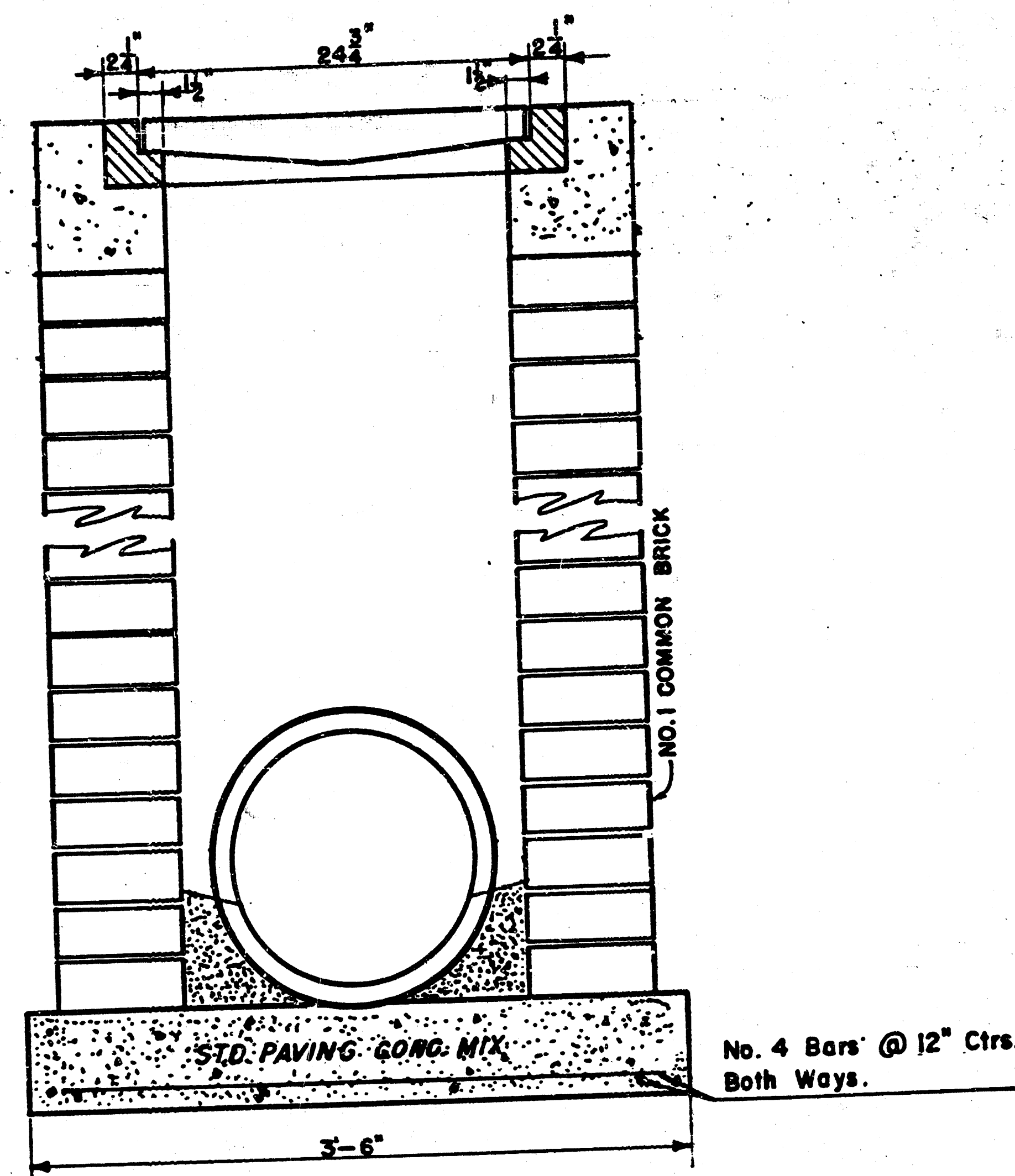


400G (Grate)
WEIGHT = 238 LBS

24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail



DROP INLET DETAILS

M.E. Lindebak, City Engineer
City of Wichita, Kansas

Project
Project No.

Date:

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

7/

11/18

10 1 1 1