

STORM SEWER IMPROVEMENTS FOR TOWNE PARC ADDITION

PROJECT NO.

468-76-245-80001-000-000-146

INDEX TO DRAWINGS

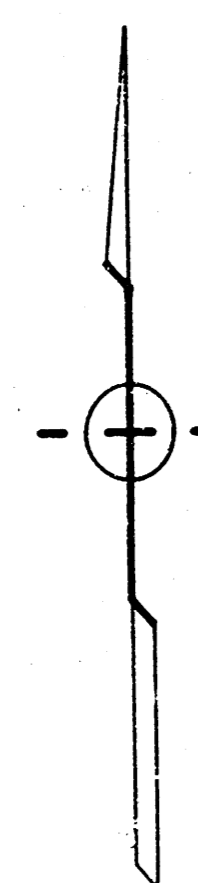
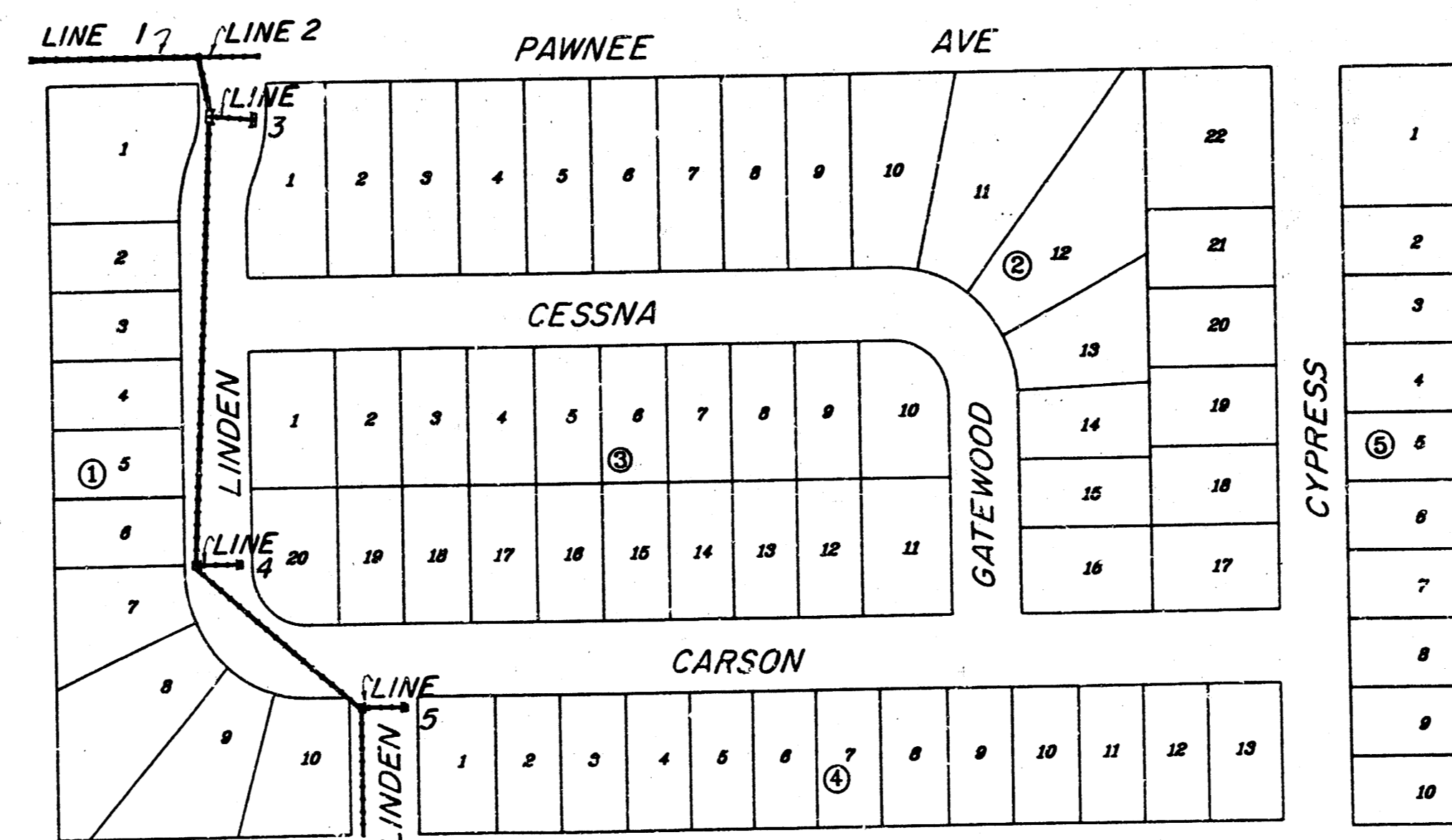
SH. NO.	DESCRIPTION
1	TITLE SHEET
2	LINE 1, LINE 2, LINE 3 PLAN - PROFILE
3	LINE 1, PLAN - PROFILE
4	LINE 1, LINE 4, LINE 5 PLAN - PROFILE
5	I-A INLET DETAIL L = 6' 4"
6	I-A INLET DETAIL L = 11' 4"

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK CITY ENGINEER

GENERAL NOTES

- Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, 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 Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- The Contractor shall notify pipeline companies at least 24 hours in advance of work being performed across and/or adjacent to pipelines.
- The Contractor shall be responsible for preserving property irons. The Contractor will 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 in accordance with state law.
- The Contractor shall use extreme care when working around the existing Southwestern Bell Underground Fiber Optic Cable and the Existing Conoco Gas Pipeline. Extreme Caution shall be exercised when excavating in the vicinity of these underground lines.
- THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS OF HEDGECLIFF 2ND ADDITION 24 HOURS PRIOR TO THE SHUTDOWN OF THE 16 INCH WATER MAIN.**



BENCH MARKS

Standard City Disk 2 feet east and 48 feet south of the N.W. Corner, N.E. Quarter, Section 5-28-2E, Elevation = 192.20 City Datum.

Step Bench in south face of power pole, 591 feet east and 39 feet south of the N.W. Corner, N.E. Quarter, Section 5-28-2E, Elevation = 200.13

SCALE 1" = 150'

LOCATION MAP

Booked
5/89
MCG

INDEX CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATION of the CITY OF WICHITA. The CONTRACTOR will pay the City's fee for a copy of the plan review, inspection and building permit contract.

NOTES TO BE NOTED
CITY ENGINEER OF WICHITA

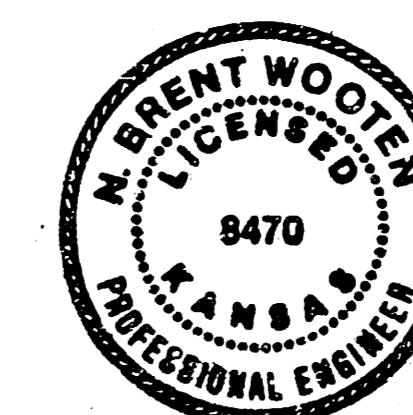
Sanitary Sewers _____

Storm Sewers VRH 2/3/88

Driveway Approaches _____

Water Mains _____

Other _____



Revised Thrust Block R/R Detail (5/13/88) CMB

Revised Line 1 Beginning Sta. to 0+08 (5-3-88) TCR
Rev. 2/1/88

DATE Feb. 8, 1988

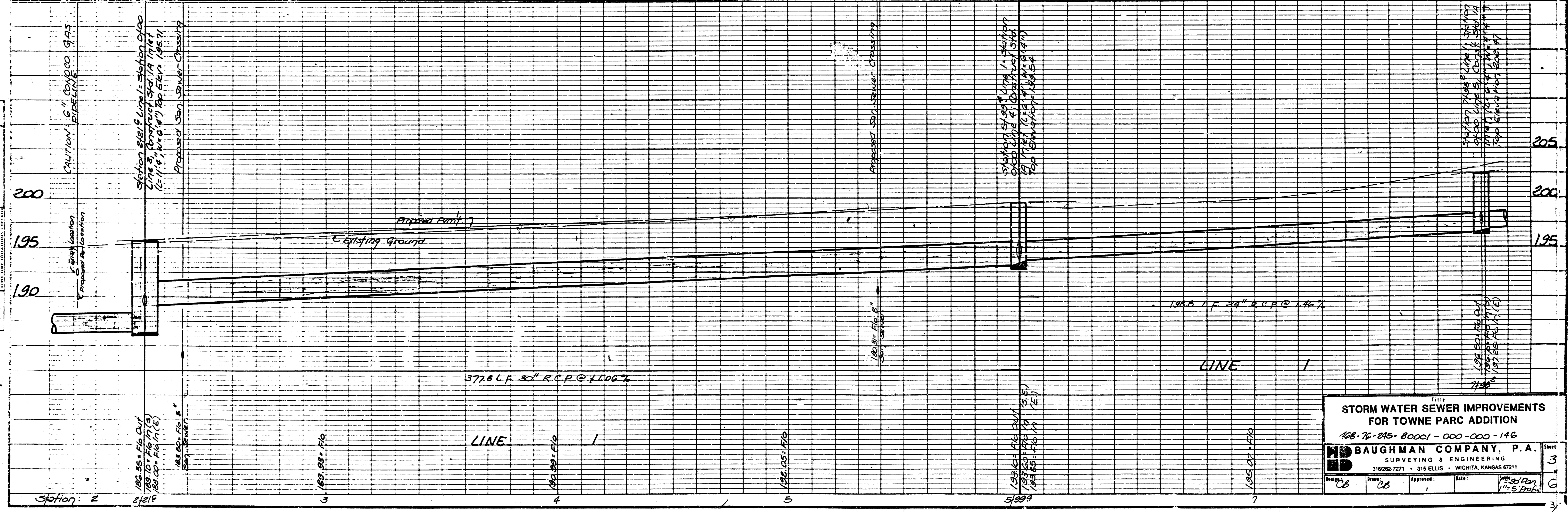
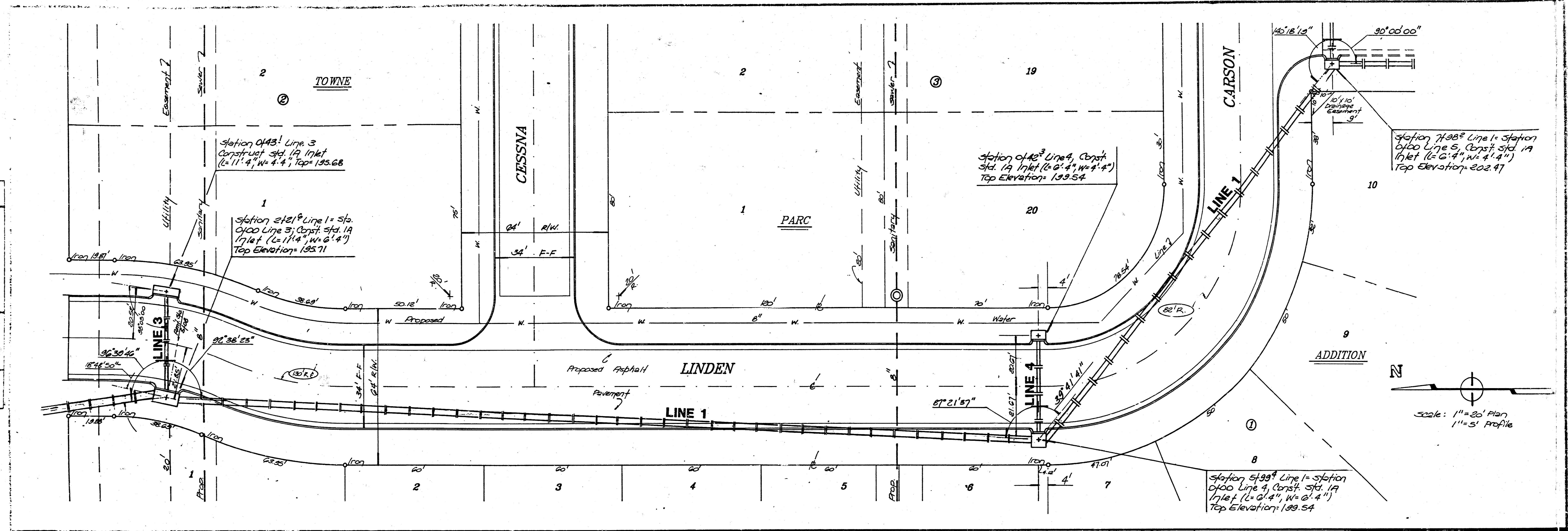
BAUGHMAN COMPANY - P. A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

3 HRS.

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DATE	
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APPROVED	
PROJECT	
SHEET NO.	
TOTAL SHEETS	

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BY	
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STORM WATER SEWER IMPROVEMENTS
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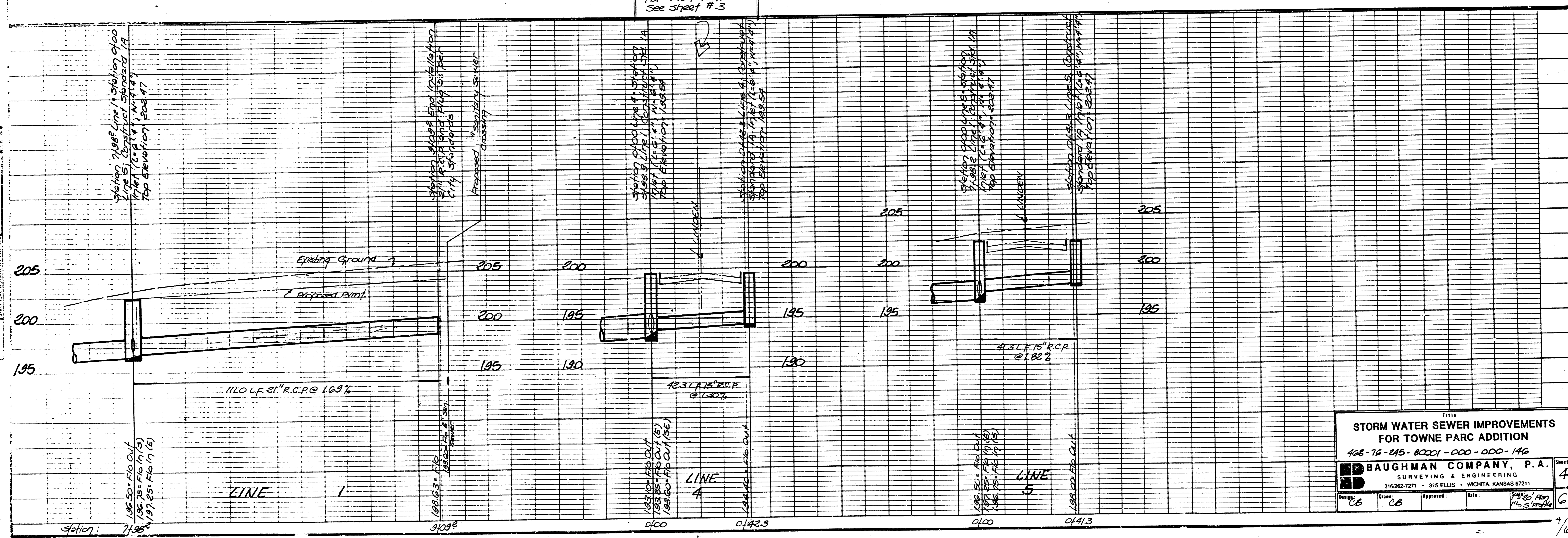
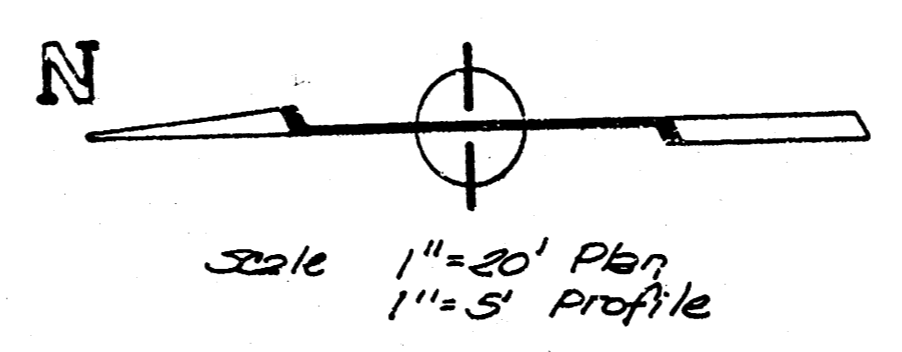
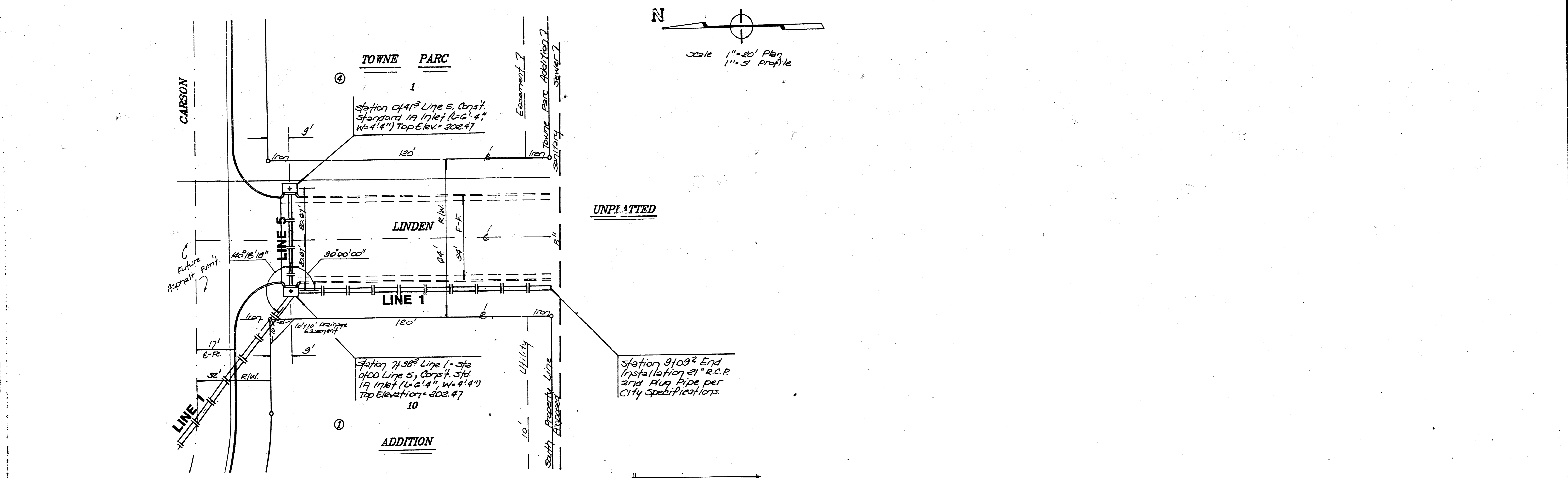
BAUGHMAN COMPANY, P.A.
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Drawn: CB, Checked: CB, Approved: [Signature], Date: [Date]

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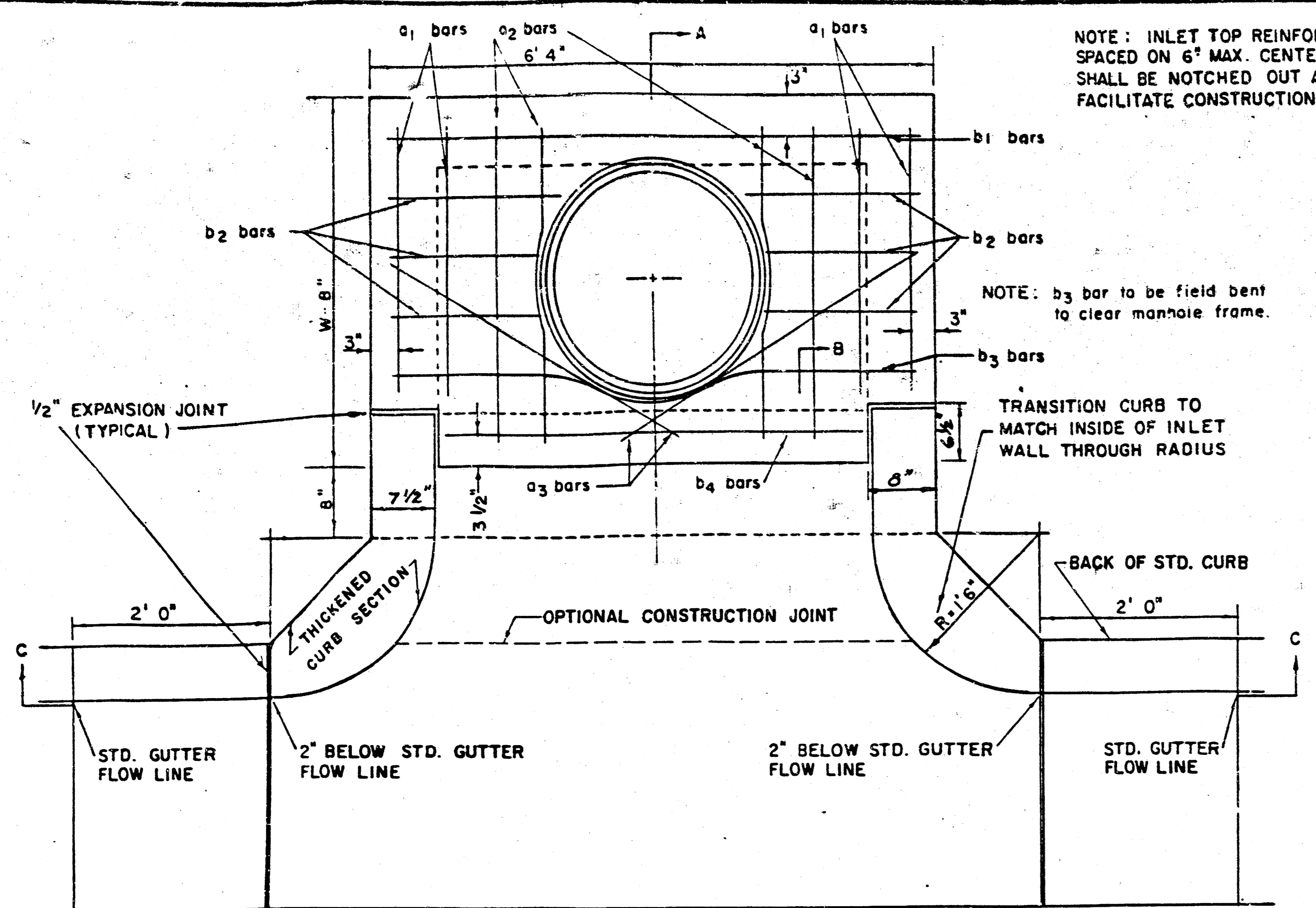
PLAN	DATE: 11/15/11	BY: [Signature]
NO.	1	

PROFILE	DATE: 11/15/11	BY: [Signature]
NO.	1	



TITLE
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 SURVEYING & ENGINEERING
 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211
 Date: CB Draw: CB Approved: [Signature] Date: 11/15/11
 SHEET 4 OF 6

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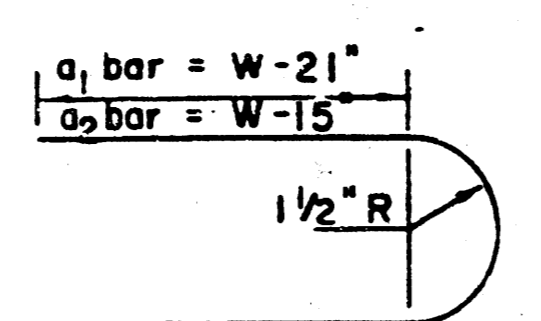
PLAN

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	6	1		
SIZE	*4	*4	*4	*4	*4	*4	*4	*4	*4	*6		
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-	1'9"	6'2"	4'8"	60±
	W=5'4"	7'7"	8'7"	5'0"	-	6'1"	-	-	1'9"	6'2"	4'8"	81±
	W=6'4"	9'7"	10'7"	6'0"	-	6'1"	-	-	1'9"	6'2"	4'8"	101±
	W=7'4"	11'7"	12'7"	7'0"	-	-	-	6'1"	-	1'9"	6'2"	121±
	W=8'4"	13'7"	14'7"	8'0"	-	-	-	6'1"	1'9"	6'2"	4'8"	141±

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

BENDING DIAGRAM



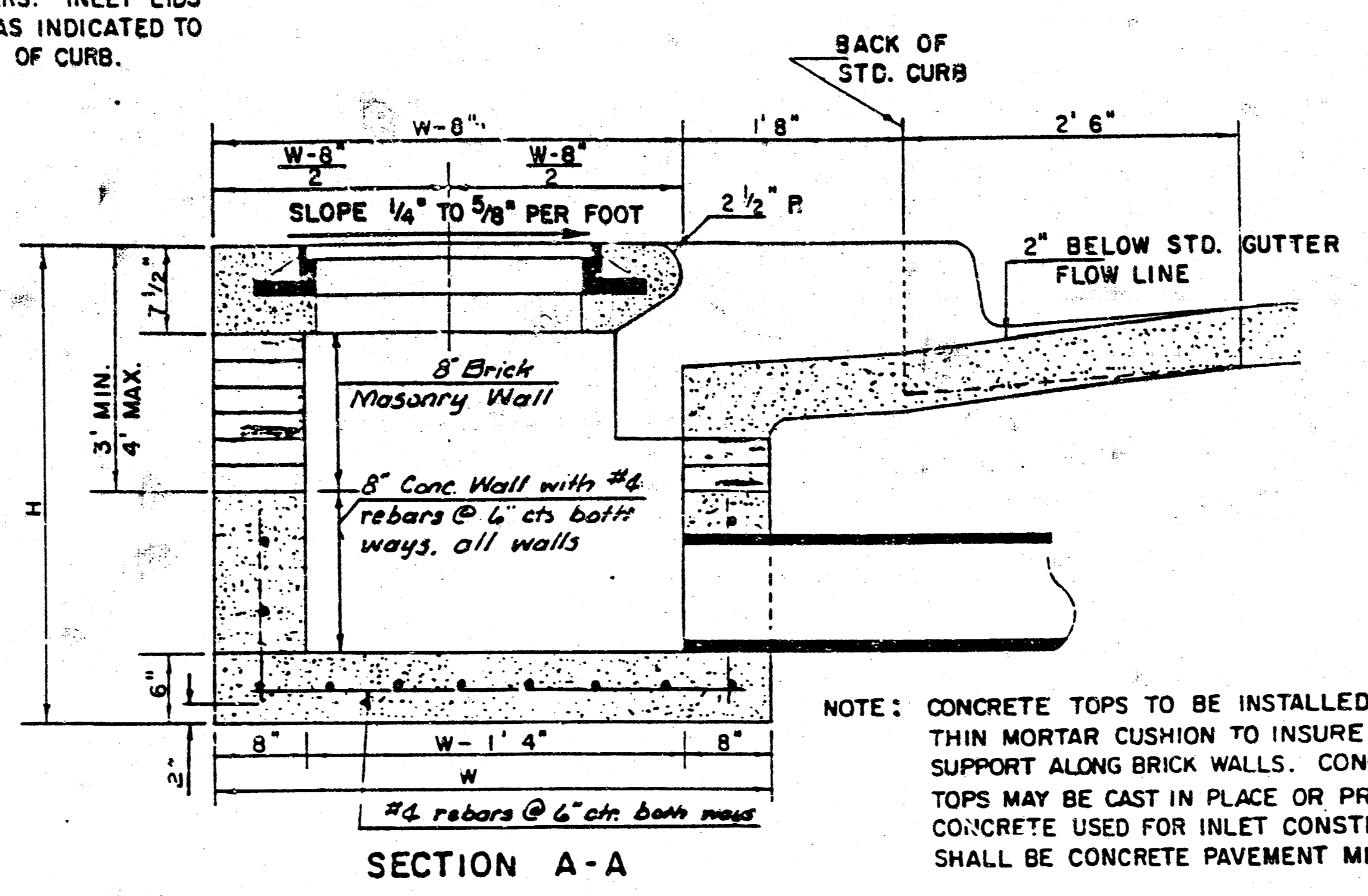
STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	38" x 6'4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	48" x 6'4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	58" x 6'4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	68" x 6'4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	78" 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



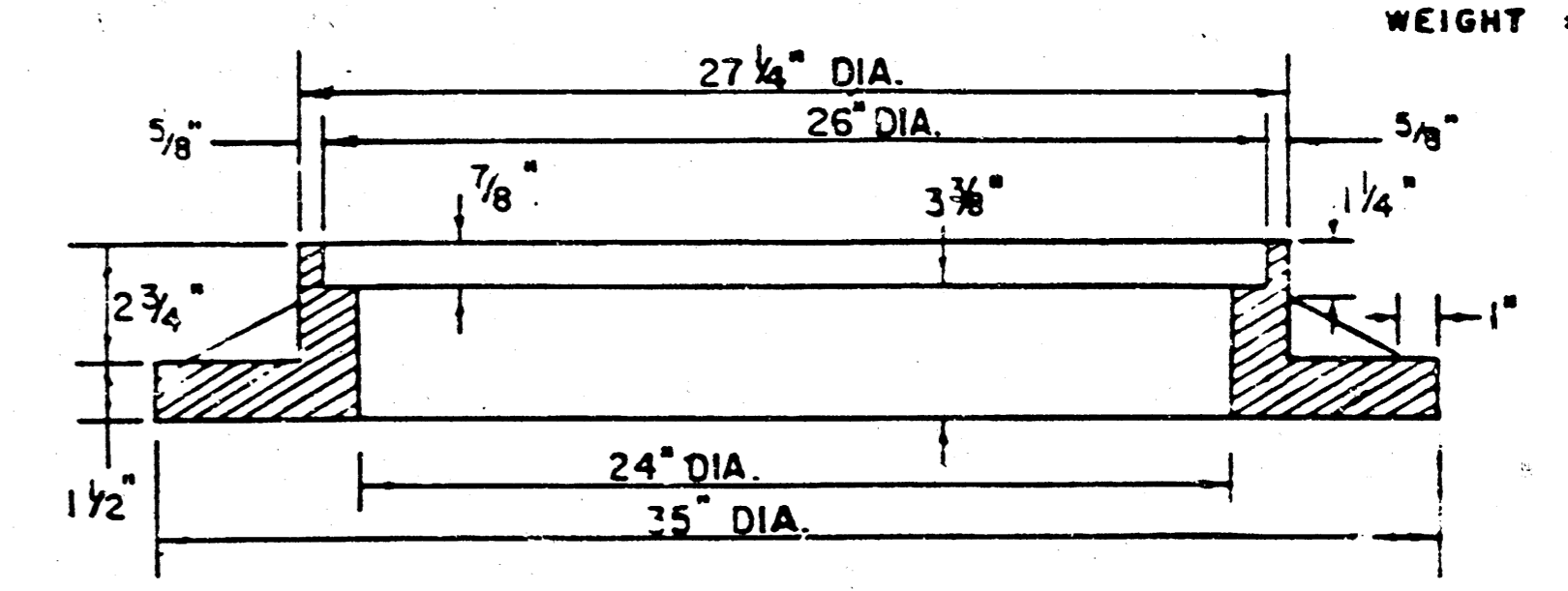
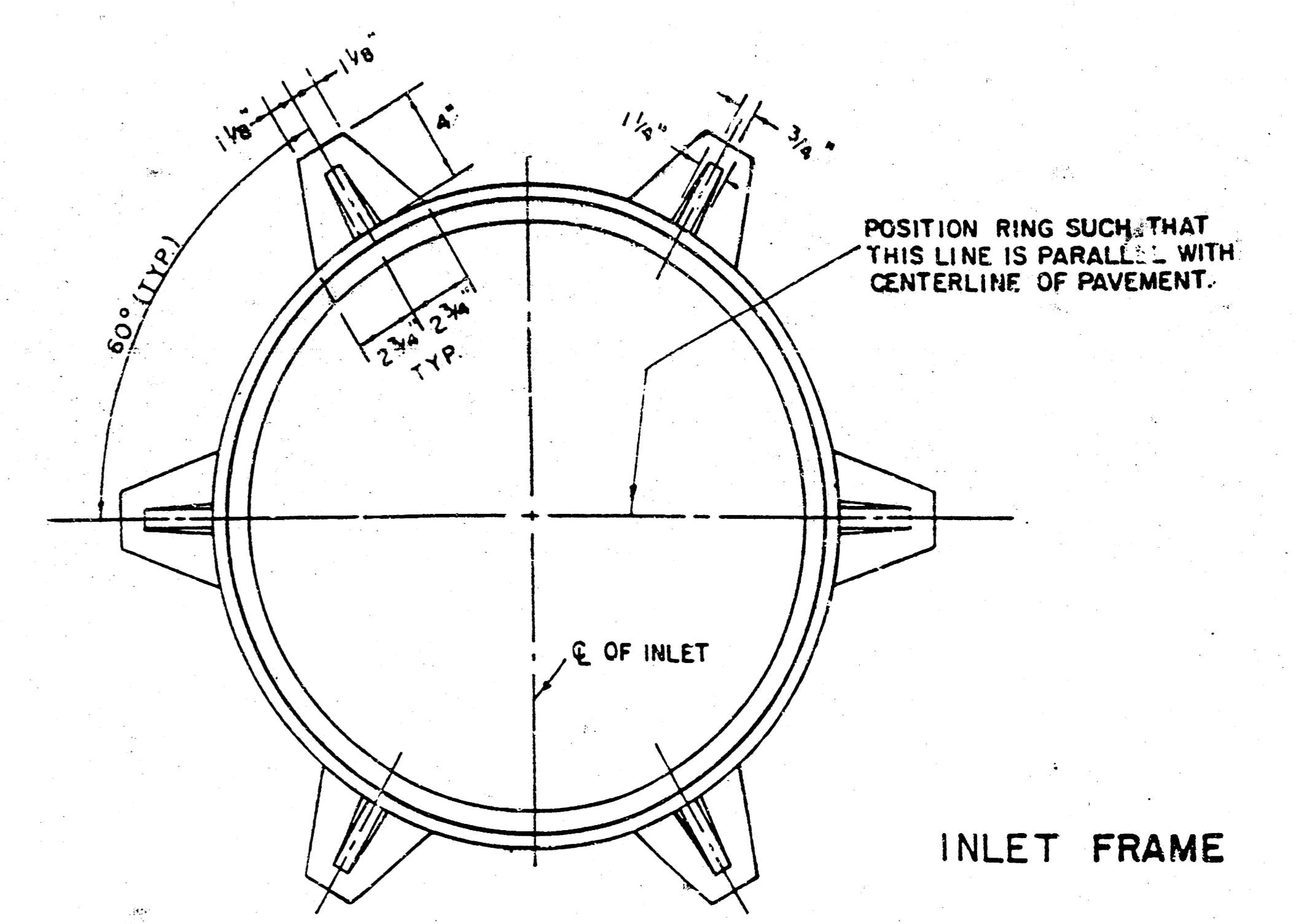
SECTION A-A

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

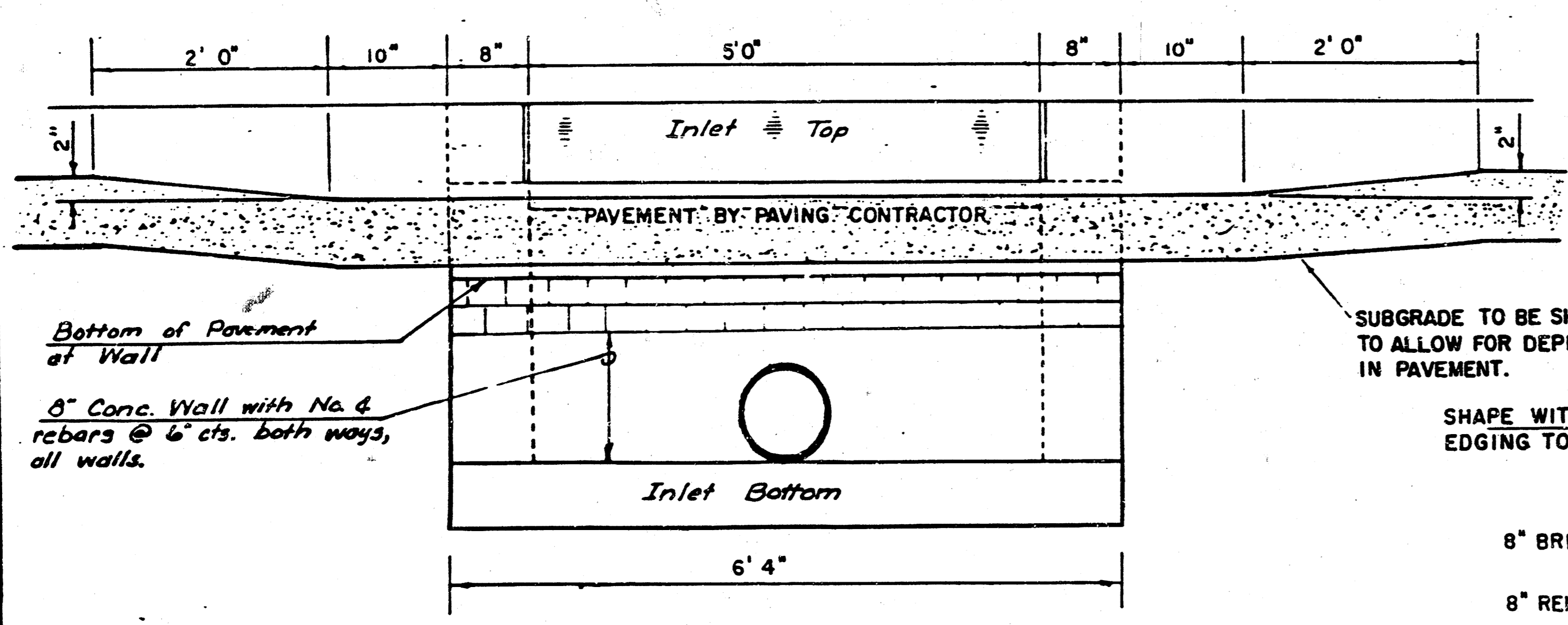
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.

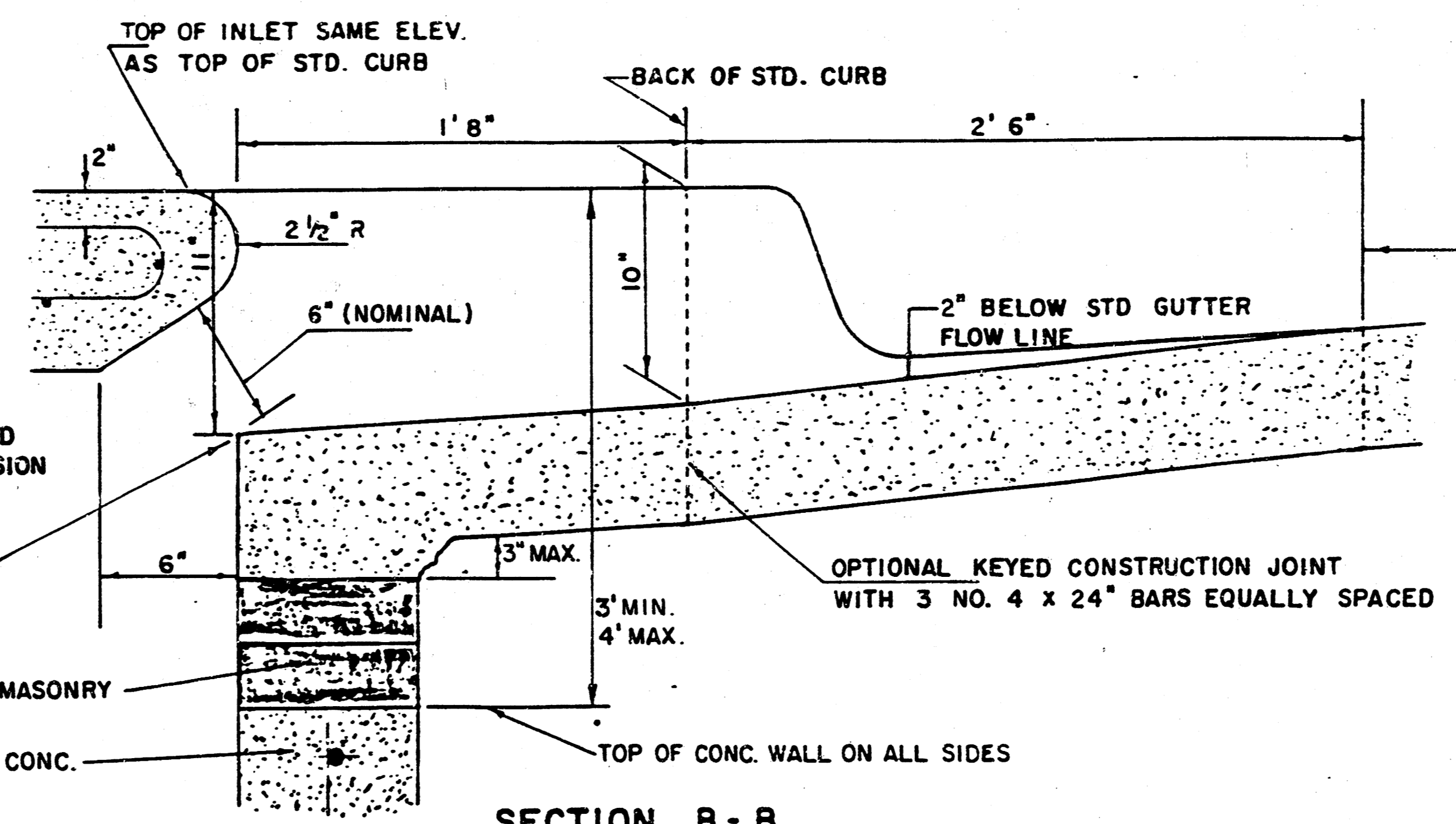
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



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



SECTION C-C



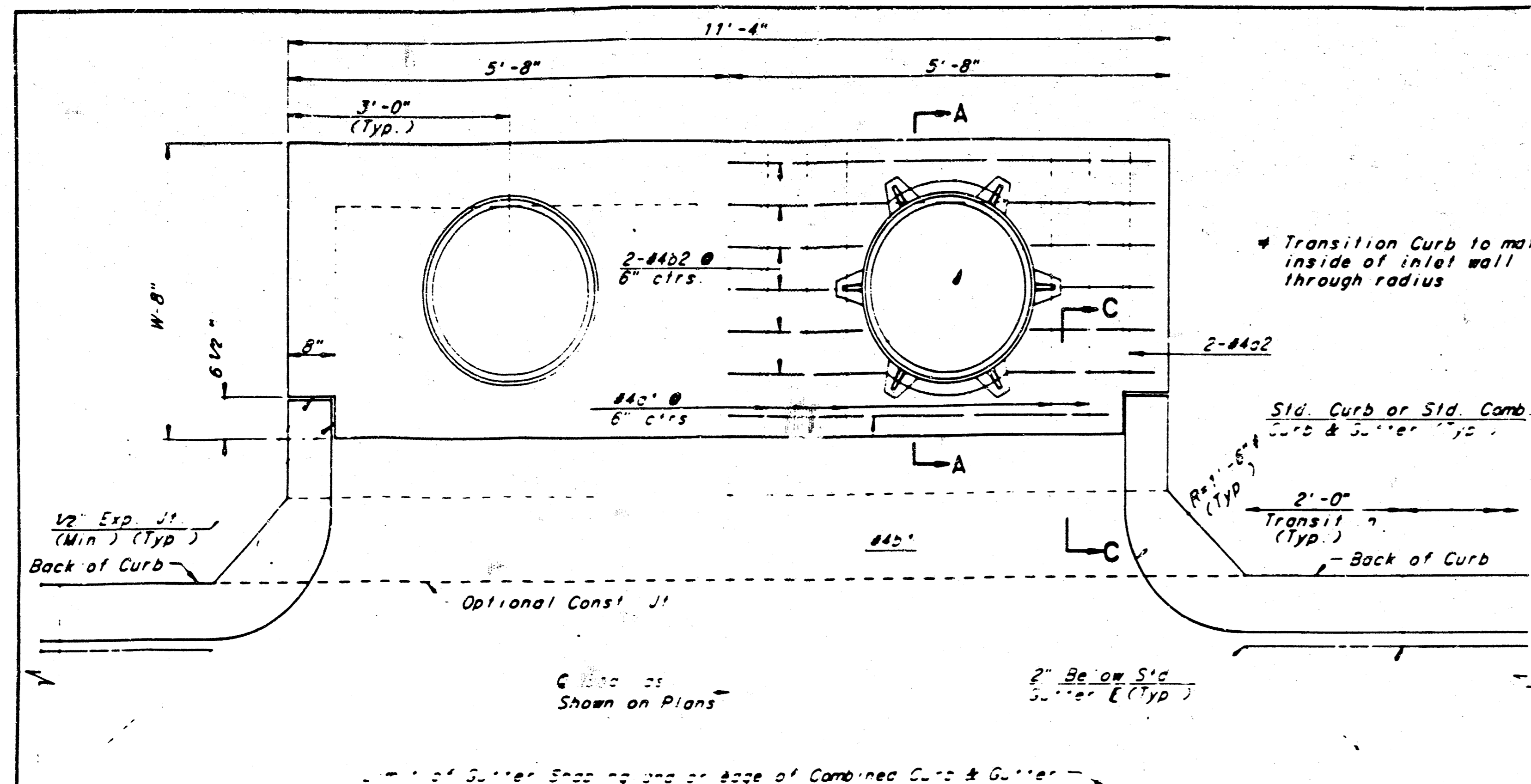
SECTION B-B

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

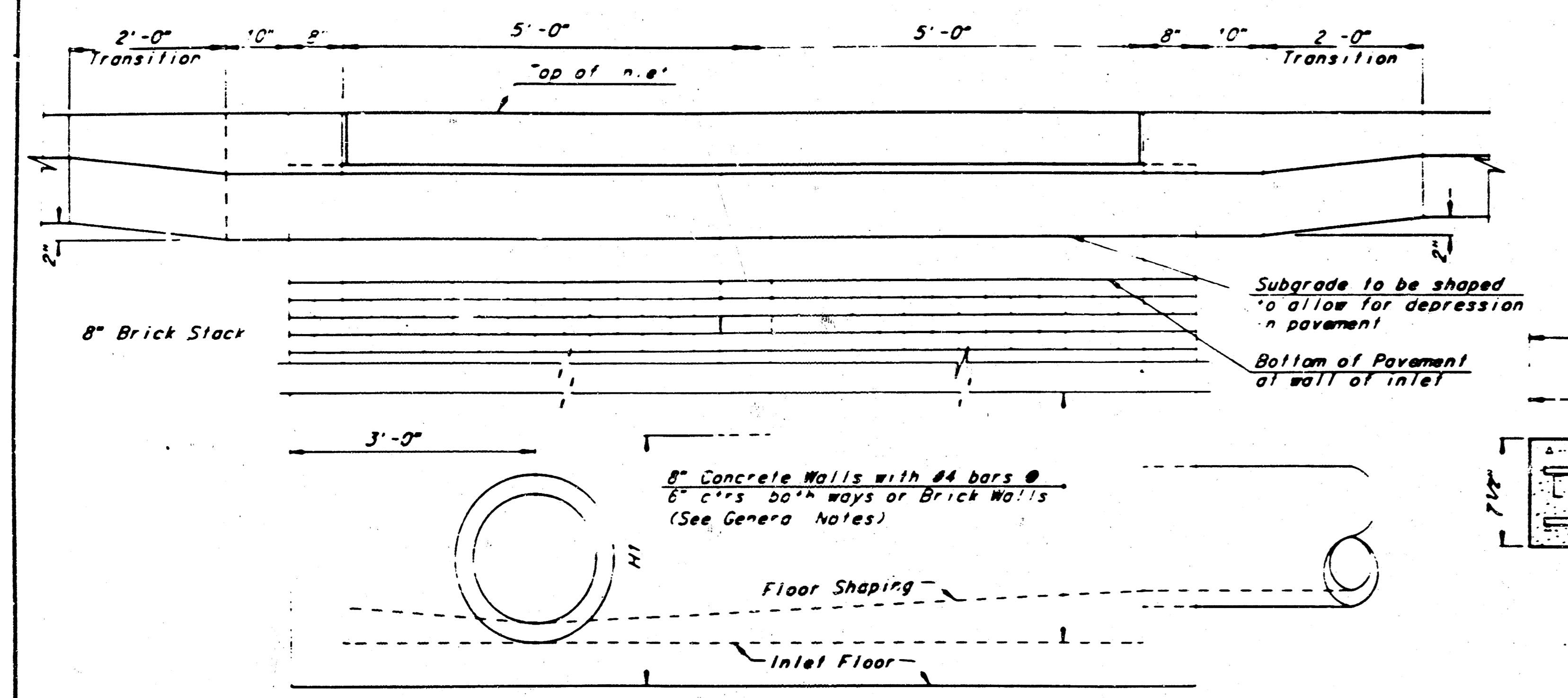
REVISED 12-21-1984

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

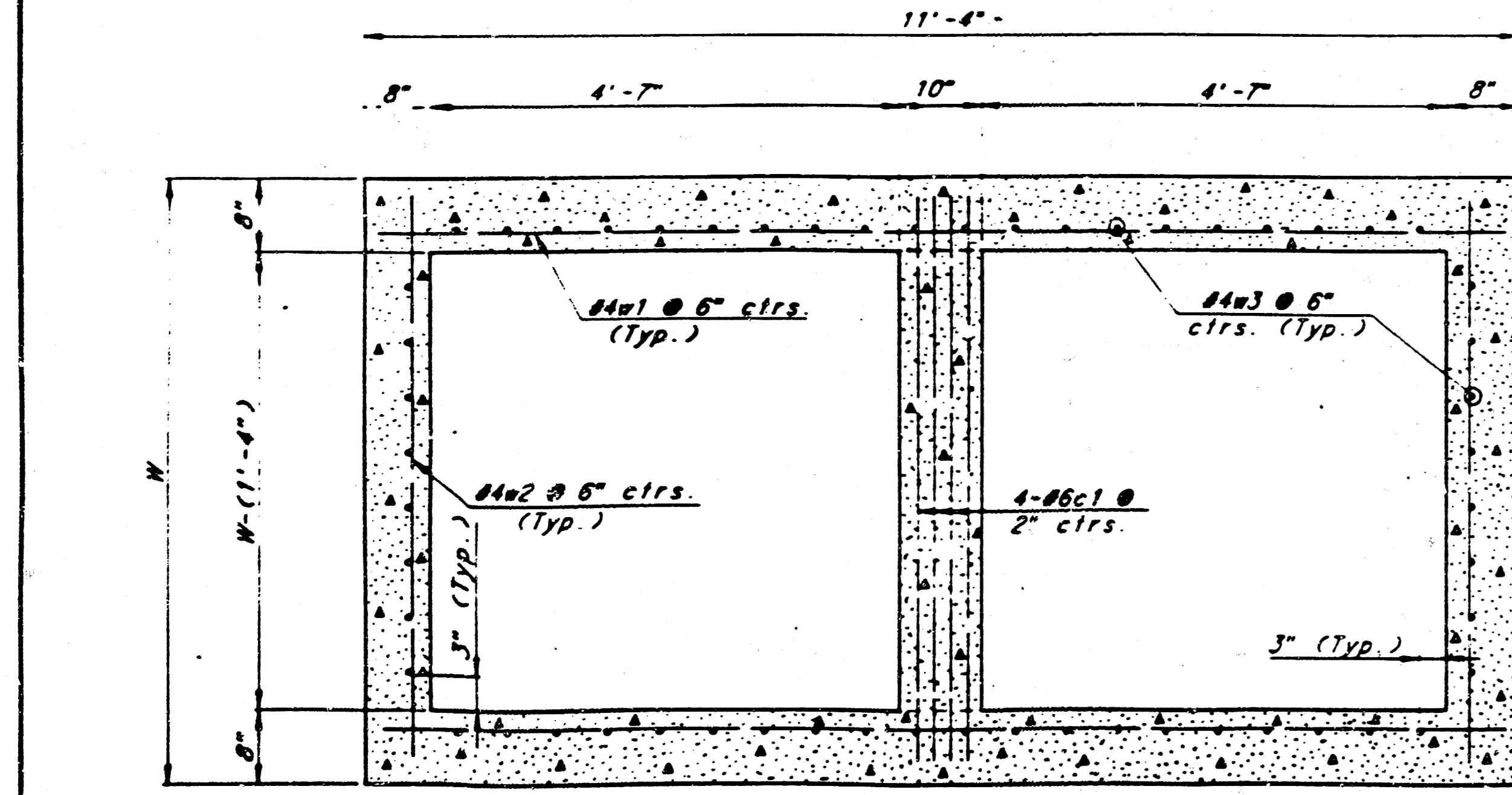
JUNE 1984



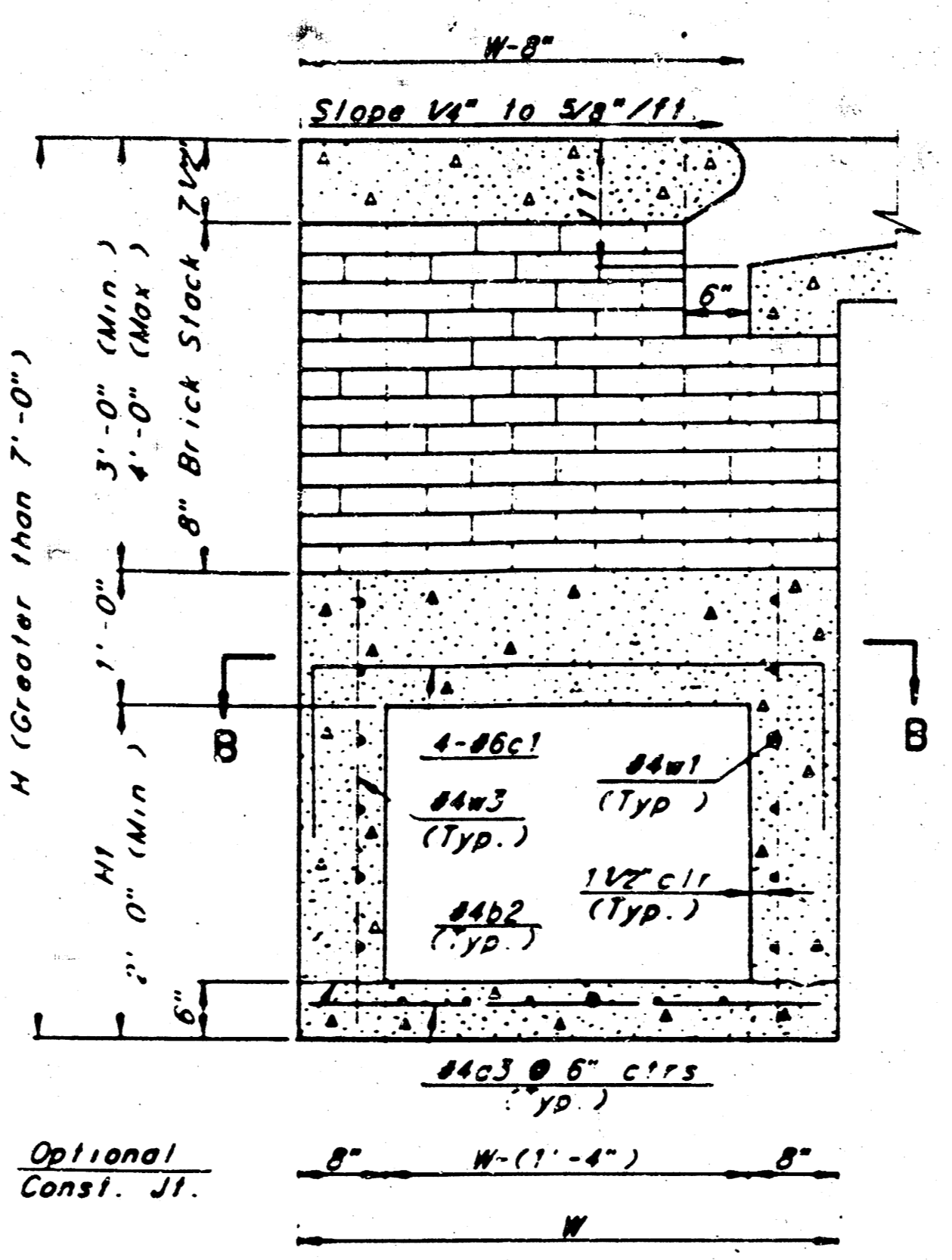
SLAB REINFORCING NOT SHOWN SHOWING SLAB REINFORCING
PLAN



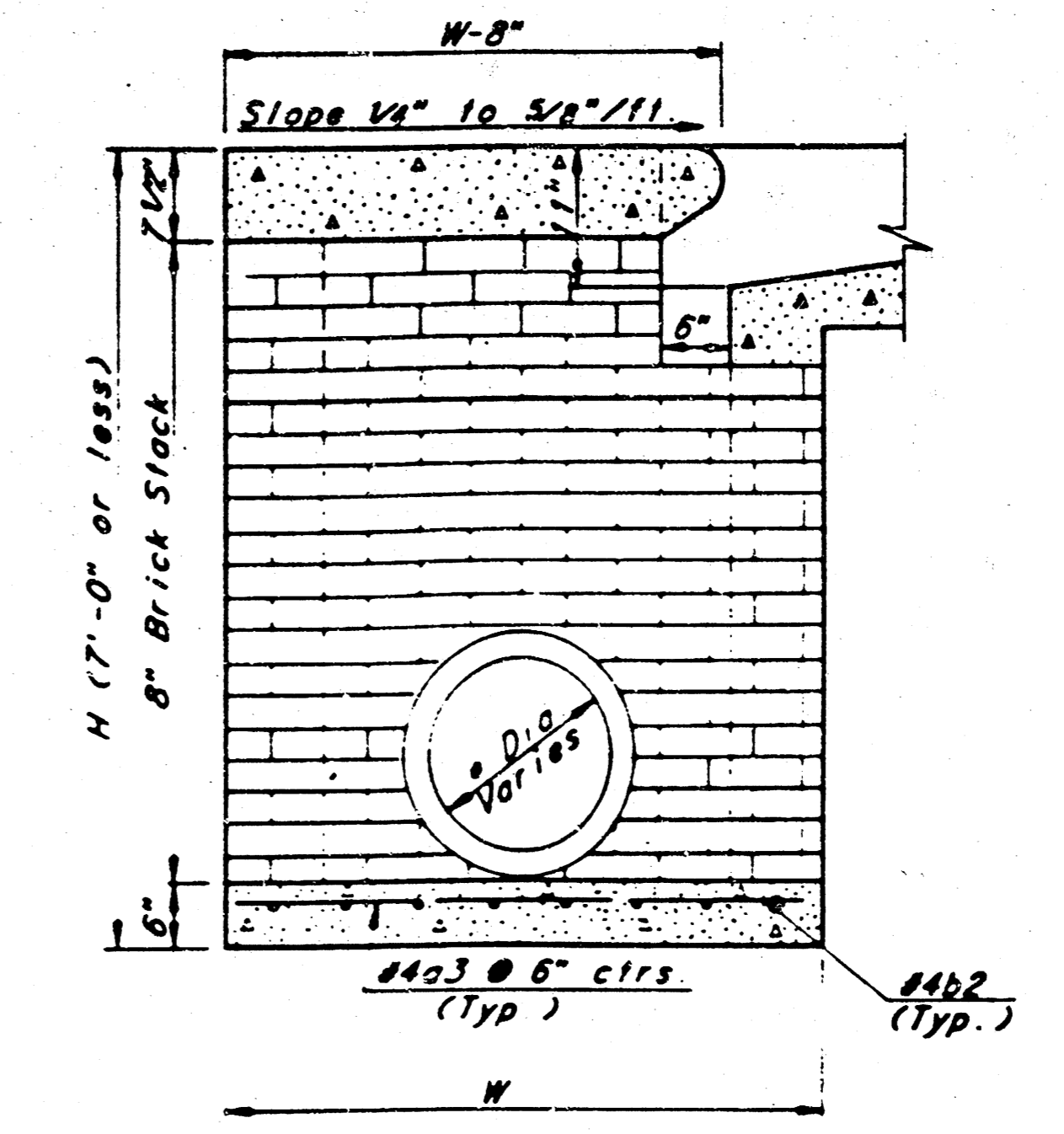
ELEVATION



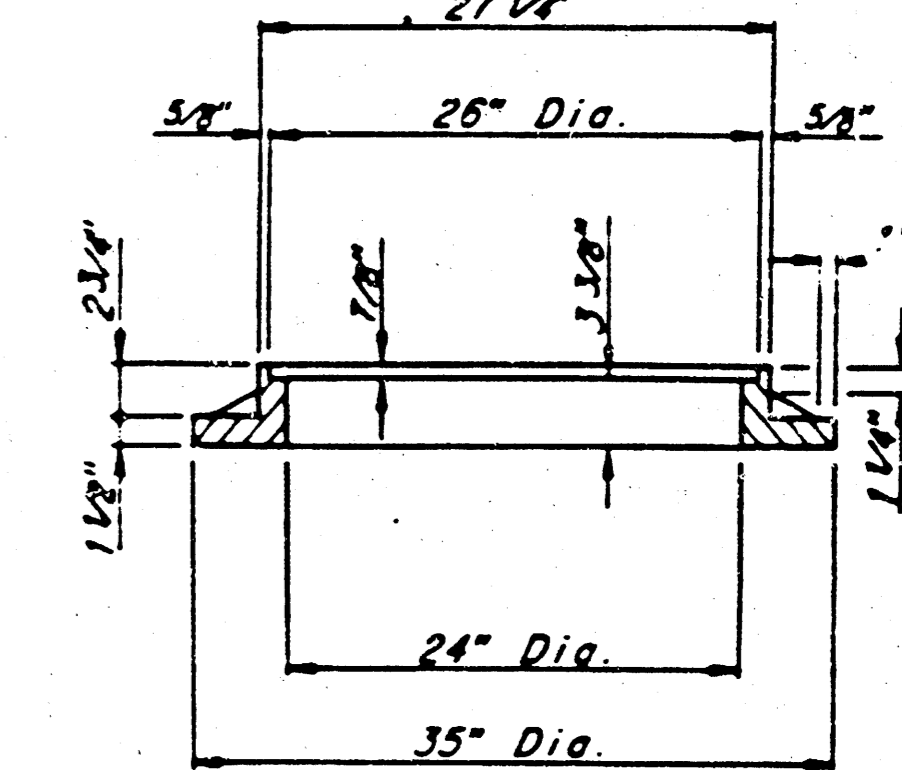
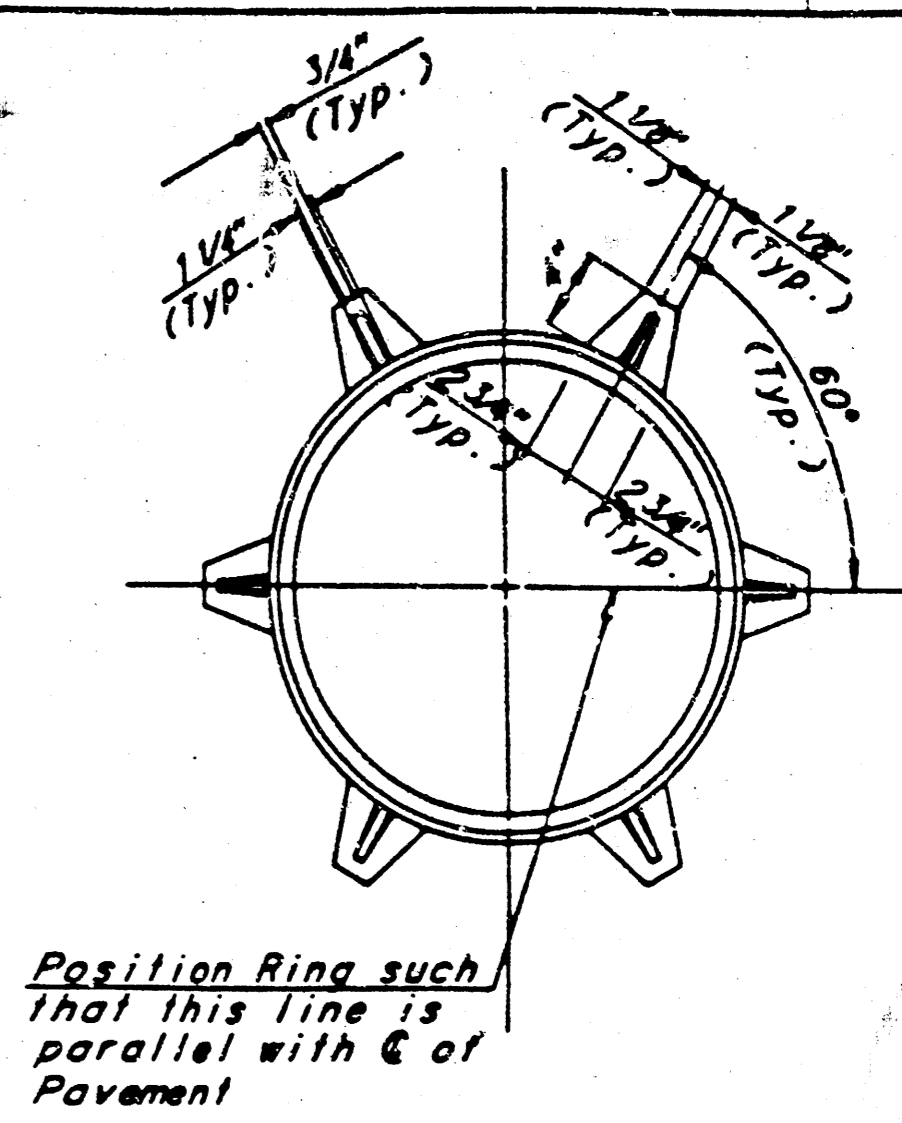
SECTION B-B



TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)

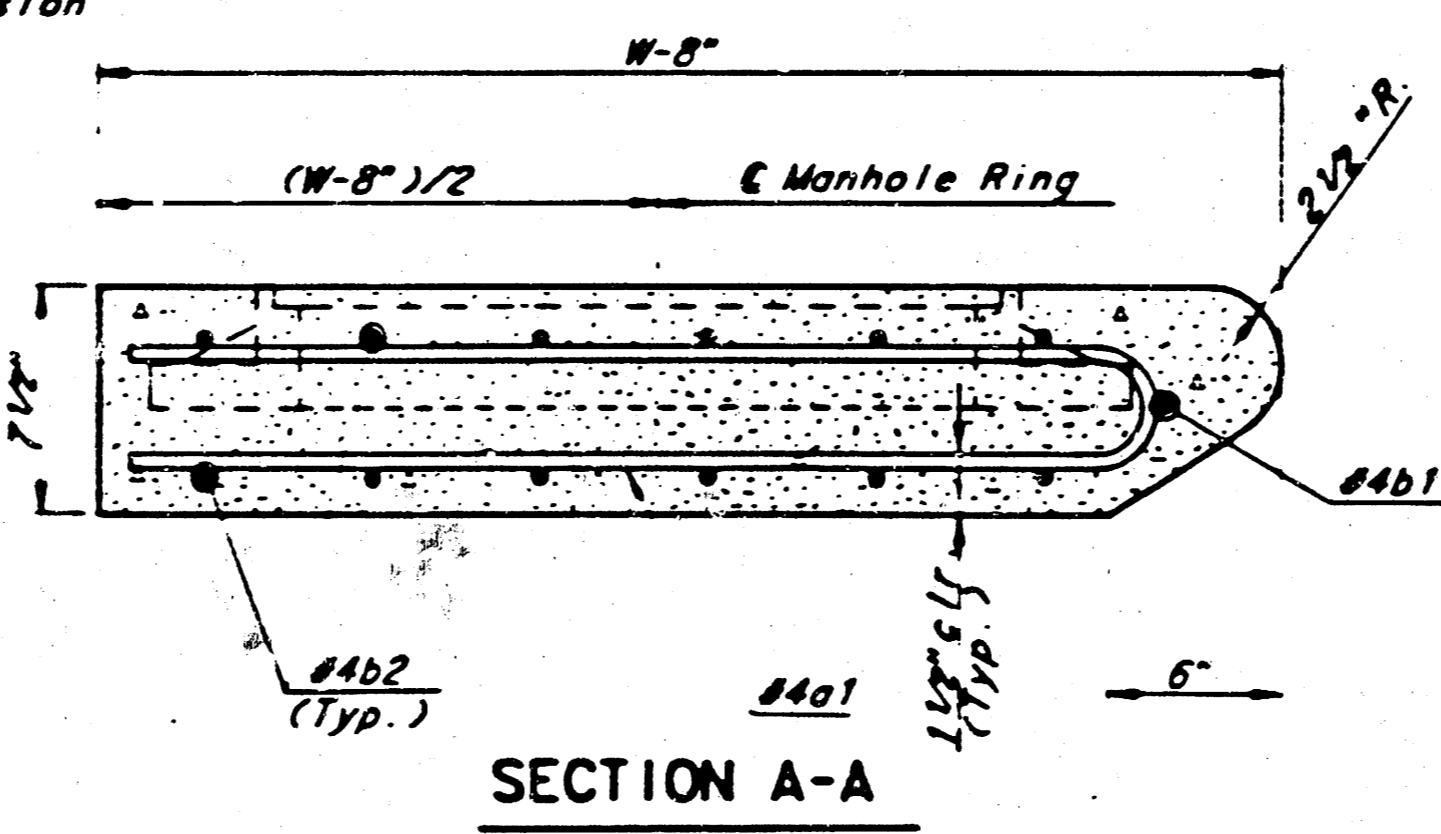


TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)

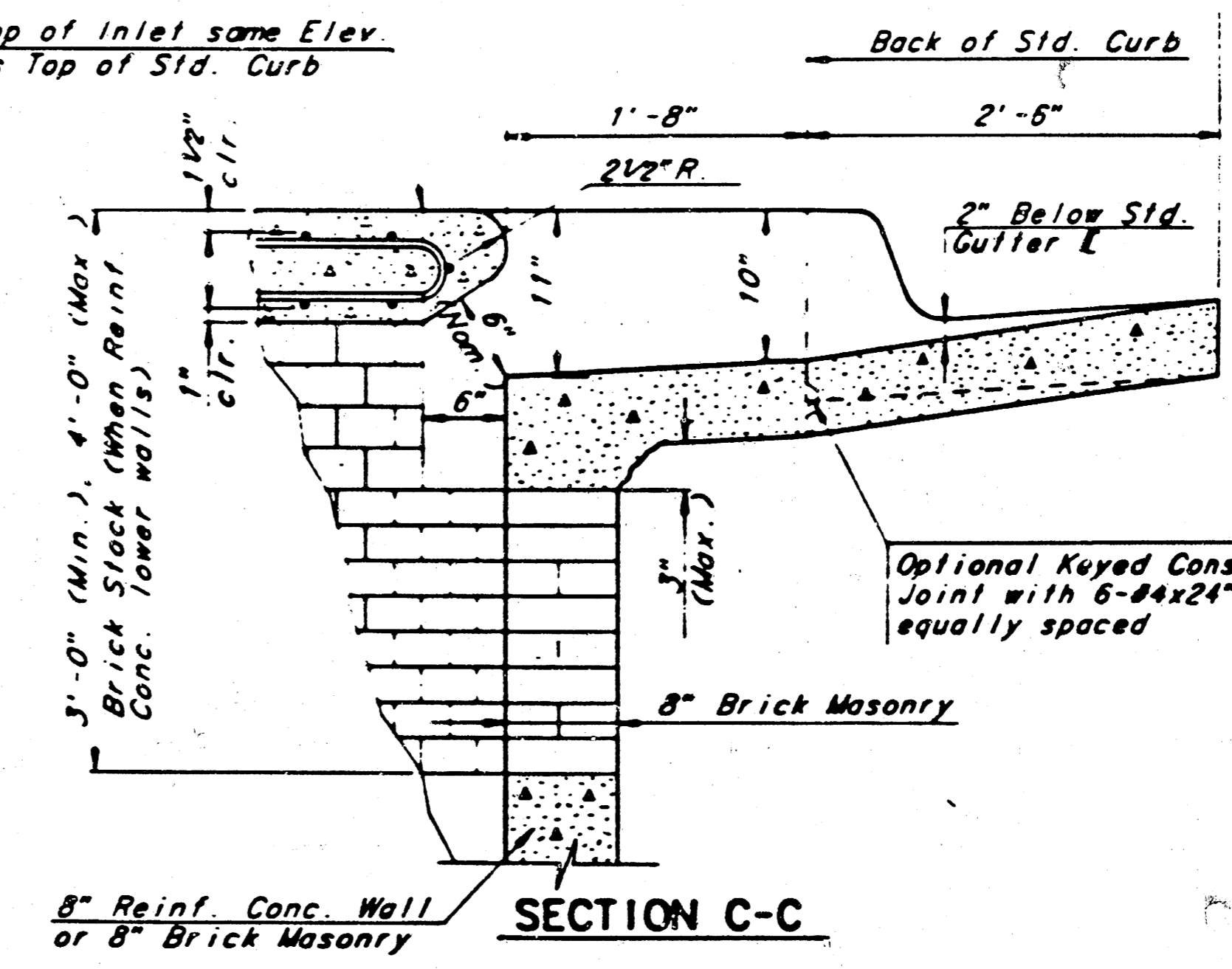


CAST IRON INLET RING
Wt. = 180 lbs.

See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



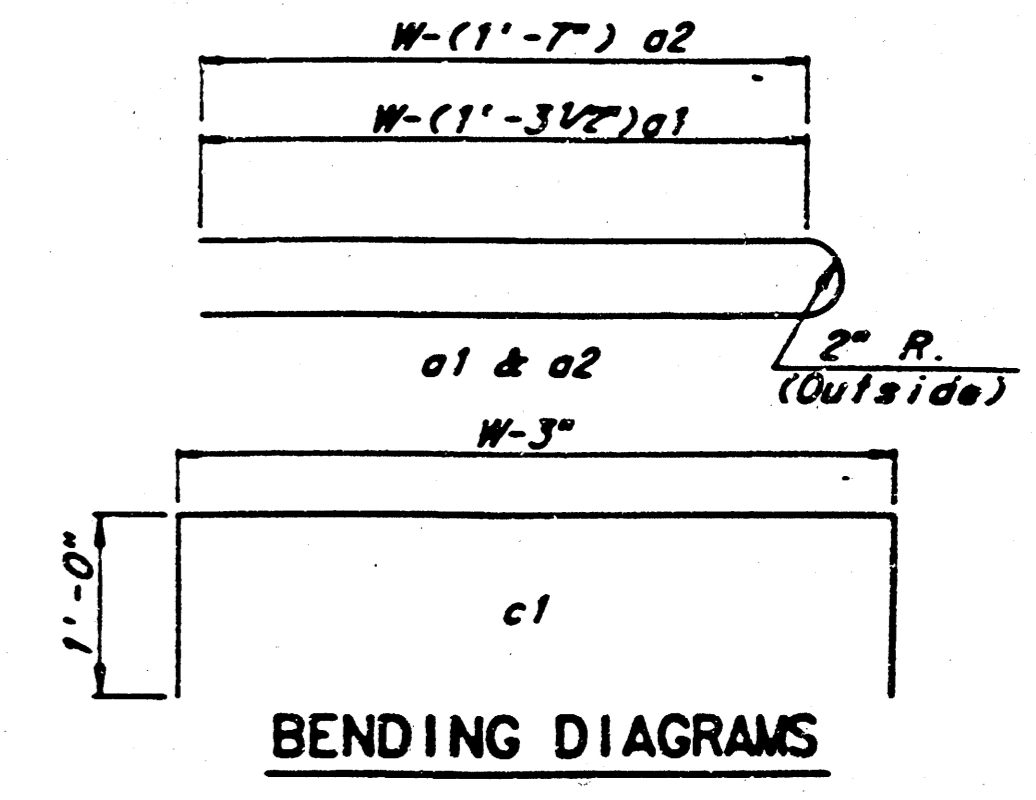
SECTION A-A



SECTION C-C

GENERAL NOTES

- THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" OR LESS AND H=7'-0" OR LESS. WHEN W IS GREATER THAN 6'-4" AND H IS LESS THAN 7'-0" THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
- INLET INVERT SHALL BE SHAPED WITH 8 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.
- 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.
- INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MANHOLE RING.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



BENDING DIAGRAMS

SLAB AND FLOOR REINFORCING

MARK	SIZE	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-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	W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#5	4	6'-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	②	②	②	②	②	②	②	②	②

* Field bend or cut Reinforcing as required for clearance
 ① 4(HI-6") x 4 (HI-6") Rounded down to nearest 0.5'
 ② 40-4(W-16") ③ HI-(9")

STANDARD TYPE 1A CURB INLET
INLET OPENING = 6"x10'-0"

WICHITA, KANSAS
 Designed by BER, KJS, AMB Checked by AMB
 Drawn by JCP Date Nov. 1984 Job No.

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