

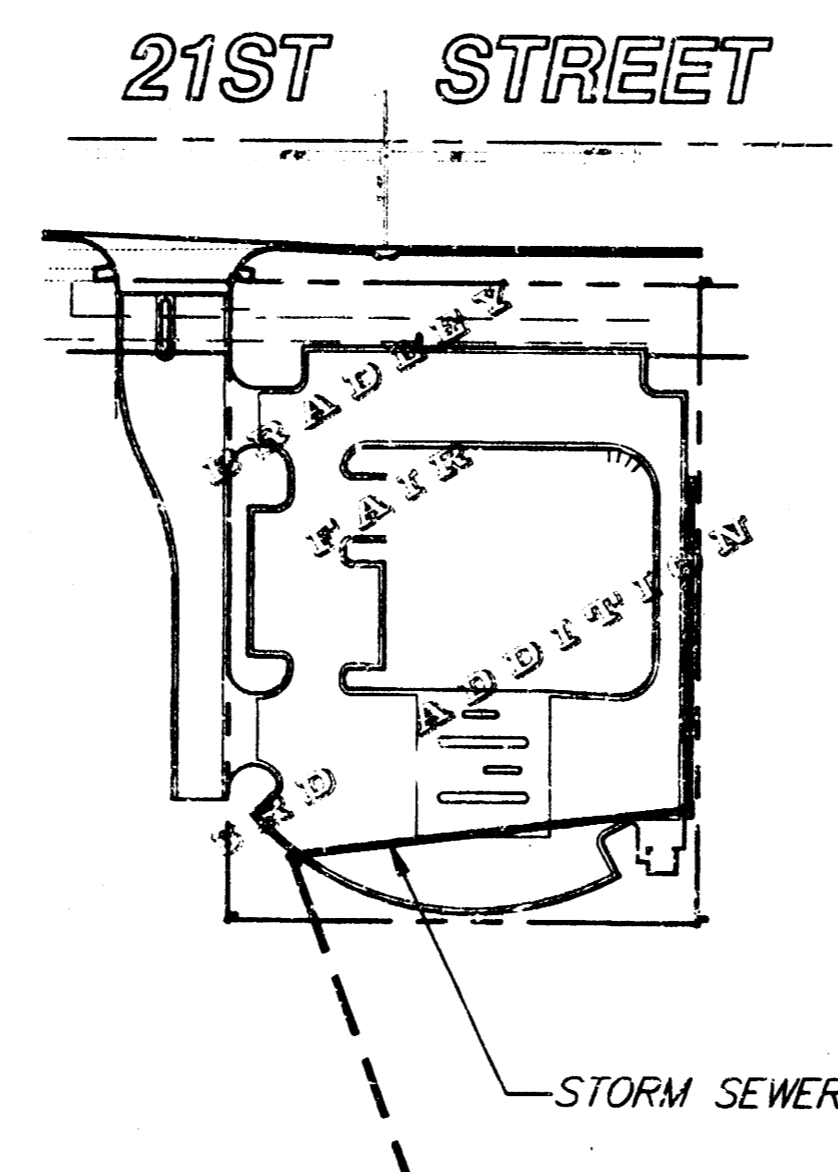
PRIVATE STORM SEWER TO SERVE LOT 1, BLOCK 1
BRADLEY FAIR 3RD ADDITION
 PRIVATE STORM SEWER # 738 PPS (607861)

GENERAL NOTES

1. All work on this project shall conform to the Standard Specifications for Storm Sewer Construction of the City of Wichita.
2. Locating dimensions are to center of new inlet.
3. All areas within public right-of-way which may be disturbed by Contractor's operations shall be restored in accordance with City of Wichita Administrative Regulation AR-7B.
4. The Contractor shall notify Kansas One-Call (687-2470) a minimum of 24 hours prior to any excavation.
5. Any roof drain connection to this storm sewer will require a permit from the City of Wichita.

INDEX OF SHEETS

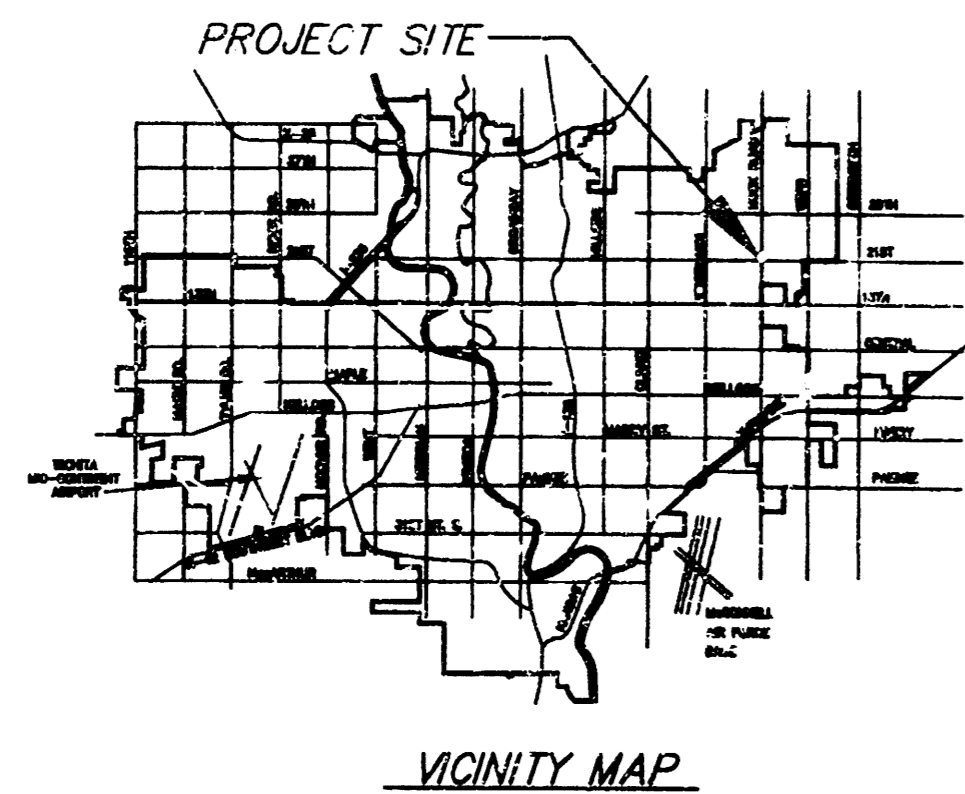
1. TITLE SHEET
2. STORM SEWER PLAN & PROFILE
3. STANDARD TYPE 1 CURB INLET



Scale 1" = 100'

BENCH MARK:

CITY OF WICHITA DISK AT NE CORNER OF INTERSECTION OF 21ST AND ROCK ROAD IN TURN ISLAND 45' NORTH AND 48' EAST OF CENTERLINE OF BOTH. ELEV. 214.568



VICINITY MAP

A

By Rational Formula:		Q=CIA
Impervious Area		73,303 S.F.
PerVIOUS Area		0 S.F.
D.A. (to storm sewer)		0.31 Acres
C _{impervious}		0.95
C _{perVIOUS}		0.00
C _{average}		0.00
Assumed time of concentration	5 min.	
I _s	6.53 in./hr.	I ₁₀₀ 10.32 in./hr.
Q _s	1.9 cfs	Q ₁₀₀ 3.0 cfs
Cumulative		
Q _s	4.1 cfs	Q ₁₀₀ 6.3 cfs

B

By Rational Formula:		Q=CIA
Impervious Area		14,597 S.F.
PerVIOUS Area		0 S.F.
D.A. (to storm sewer)		0.34 Acres
C _{impervious}		0.95
C _{perVIOUS}		0.00
C _{average}		0.00
Assumed time of concentration	5 min.	
I _s	6.53 in./hr.	I ₁₀₀ 10.32 in./hr.
Q _s	2.1 cfs	Q ₁₀₀ 3.3 cfs
Cumulative		
Q _s	4.1 cfs	Q ₁₀₀ 6.3 cfs

C

By Rational Formula:		Q=CIA
Impervious Area		24,363 S.F.
PerVIOUS Area		0 S.F.
D.A. (to storm sewer)		0.56 Acres
C _{impervious}		0.95
C _{perVIOUS}		0.00
C _{average}		0.00
Assumed time of concentration	5 min.	
I _s	6.53 in./hr.	I ₁₀₀ 10.32 in./hr.
Q _s	3.5 cfs	Q ₁₀₀ 5.5 cfs
Total		
Q _s	7.6 cfs	Q ₁₀₀ 11.8 cfs

RUNOFF CALCULATIONS:

BOOKED
4-30-98
McG
0-387



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____

Storm Sewers VRH 10/22/97

Driveway Approaches _____

Water Mains _____

Paving _____

NOTE TO CONTRACTORS

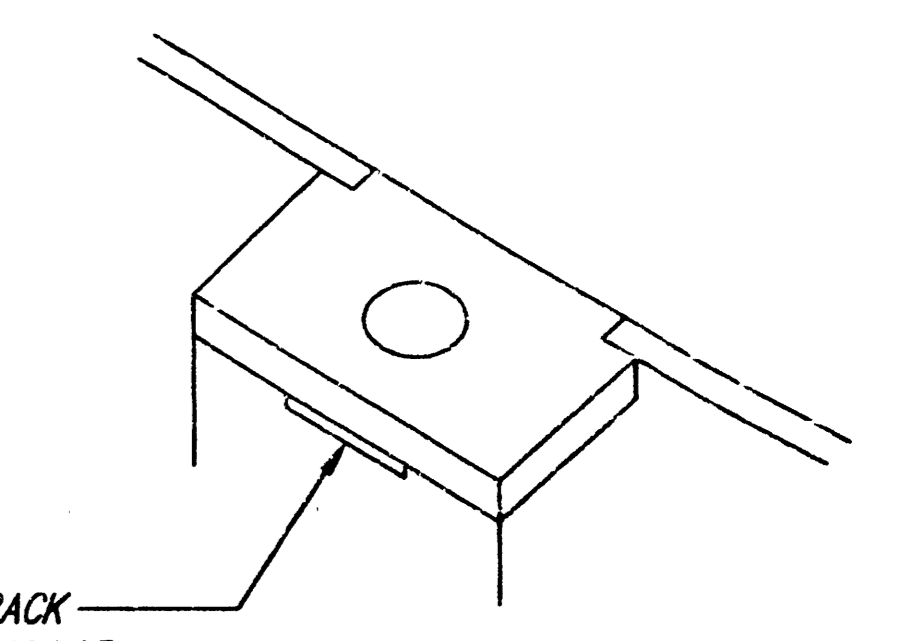
Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.

REVISED "AS BUILT" 12-4-97 TEB

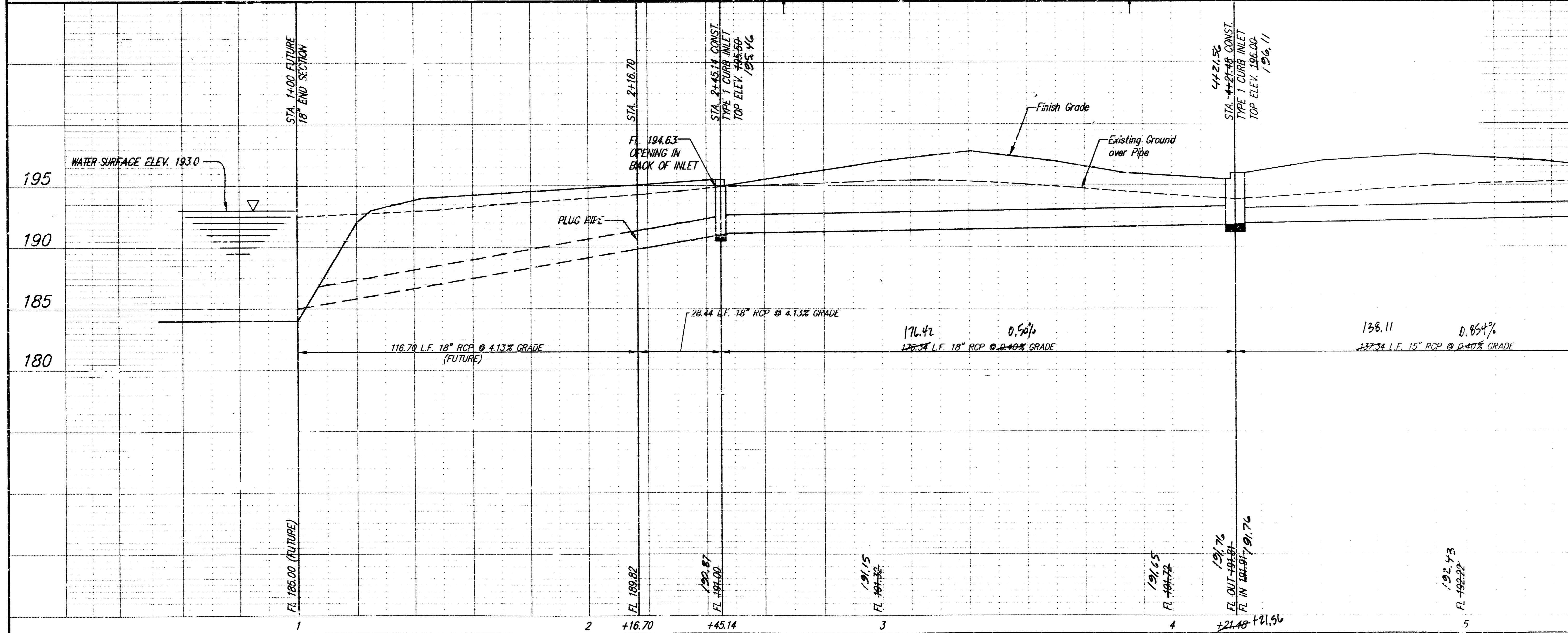
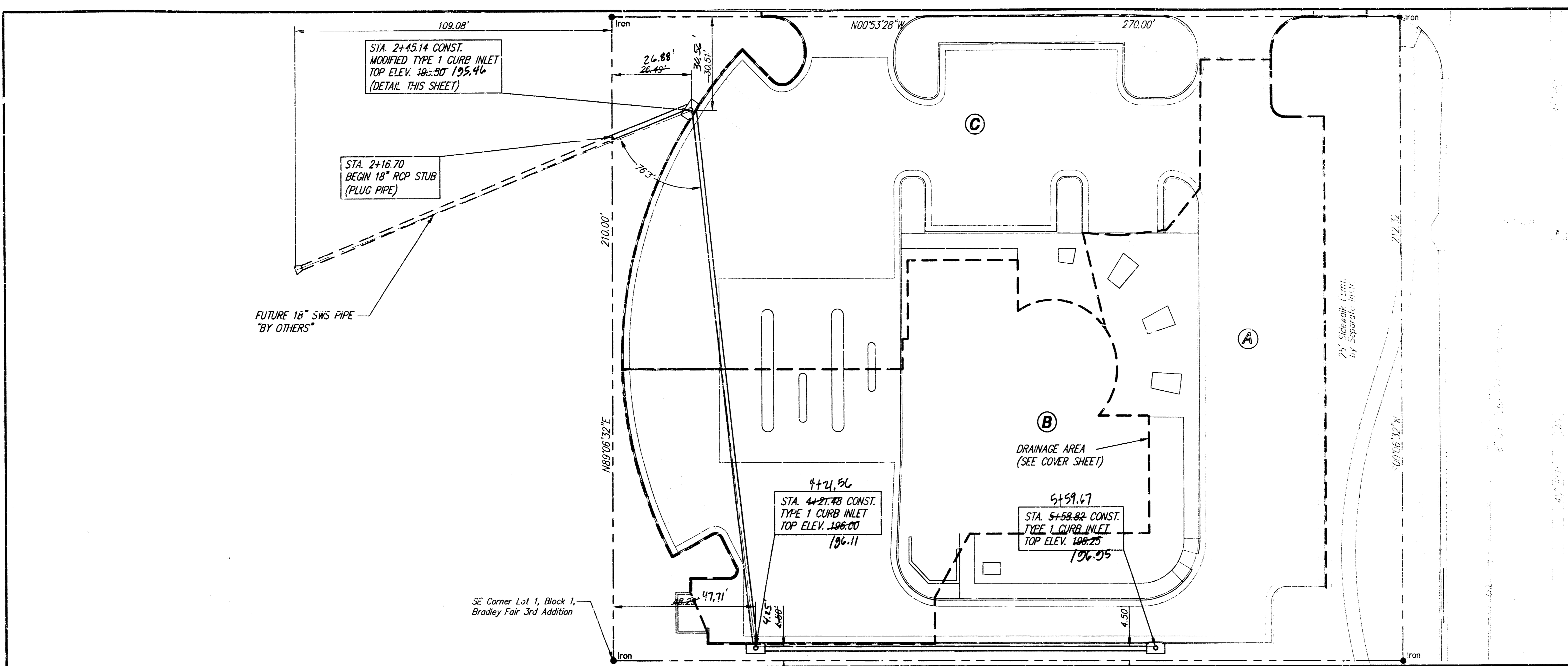
SRB 924 NORTH MAIN 316-264-8038
WICHITA, KANSAS 67203 FAX 264-4521

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

SRB
 Scale: PLAN
 1" = 20'
 PROFILE
 1" = 20' Horiz.
 1" = 5' Vert.



MODIFIED TYPE 1 CURB INLET



REVISED "AS BUILT" 12-4-97 TEB

**PRIVATE STORM SEWER TO SERVE LOT 1, BLOCK 1
 BRADLEY FAIR 3RD ADDITION
 WICHITA, KANSAS**

SRB
 924 NORTH MAIN WICHITA, KANSAS 67203
 316-264-8000 FAX 316-264-4621
 http://www.srb.com E-Mail: srb@srbc.com

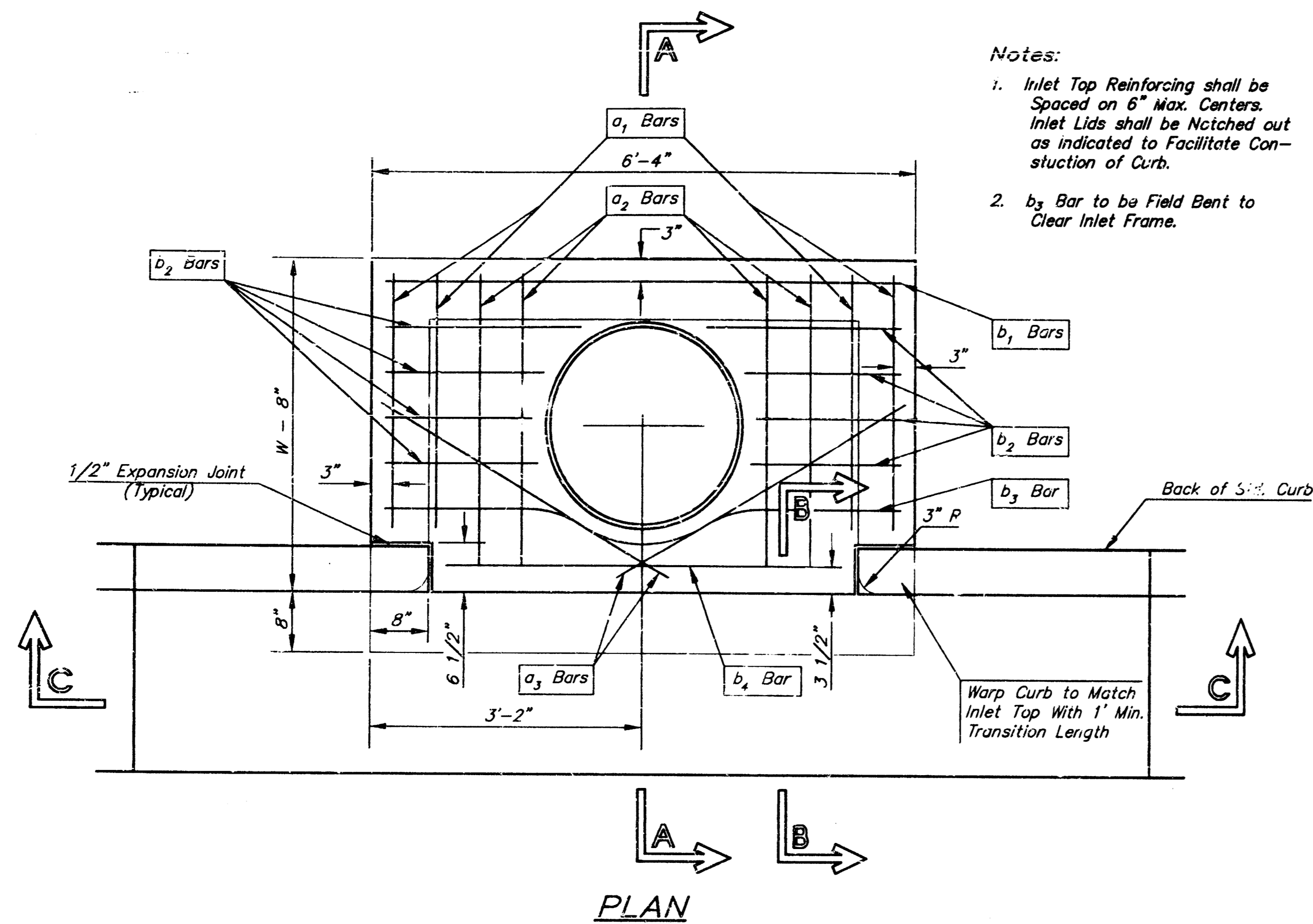
**SAVOY, RUGGLES & BOHM, P.A.
 ENGINEERING & SURVEYING**

PROJECT NUMBER
 738 PPS (607861)

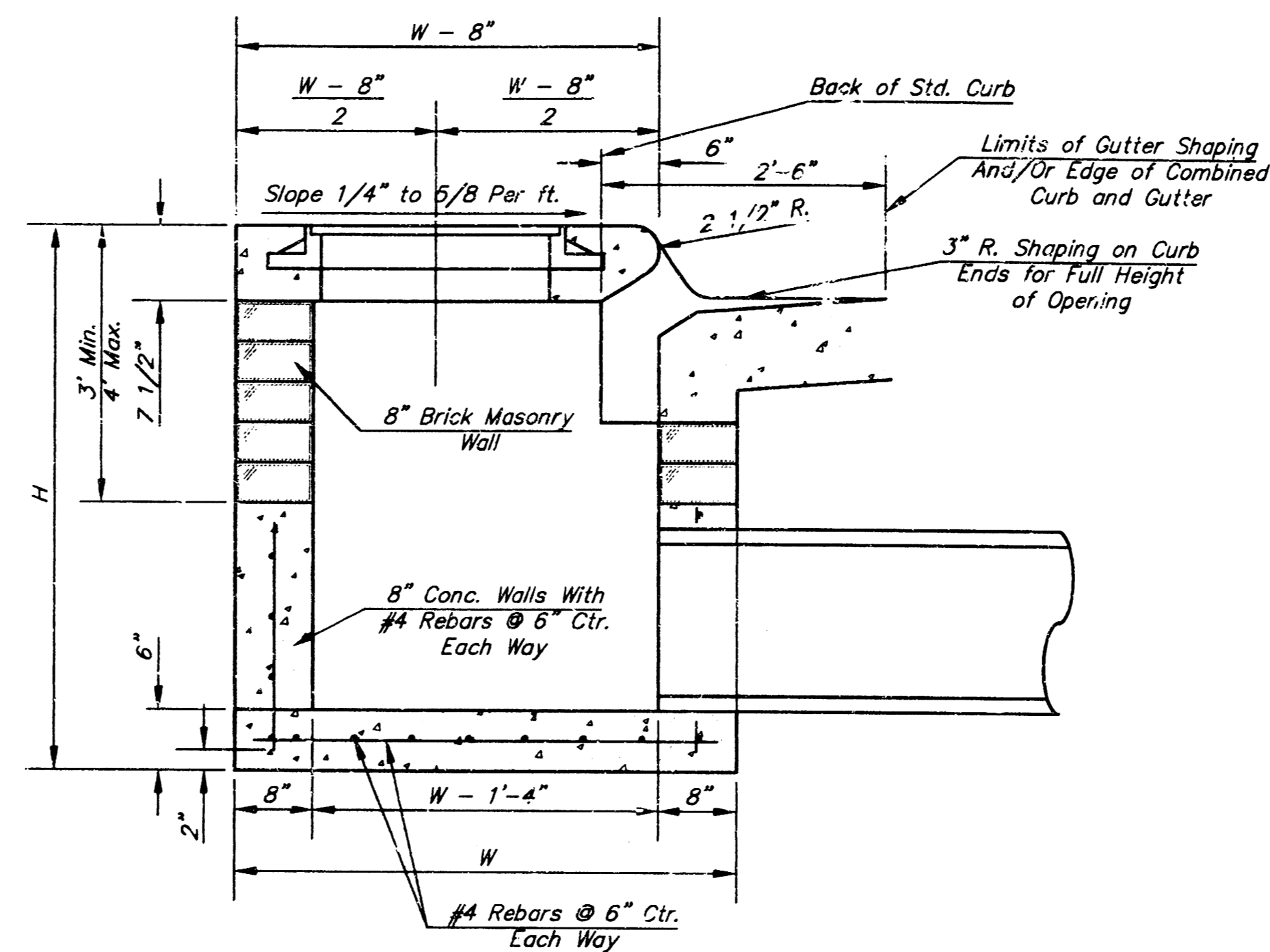
DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
T.C.R.	T.E.B.			Oct. 22, 1997	

SHEET 2 OF 3

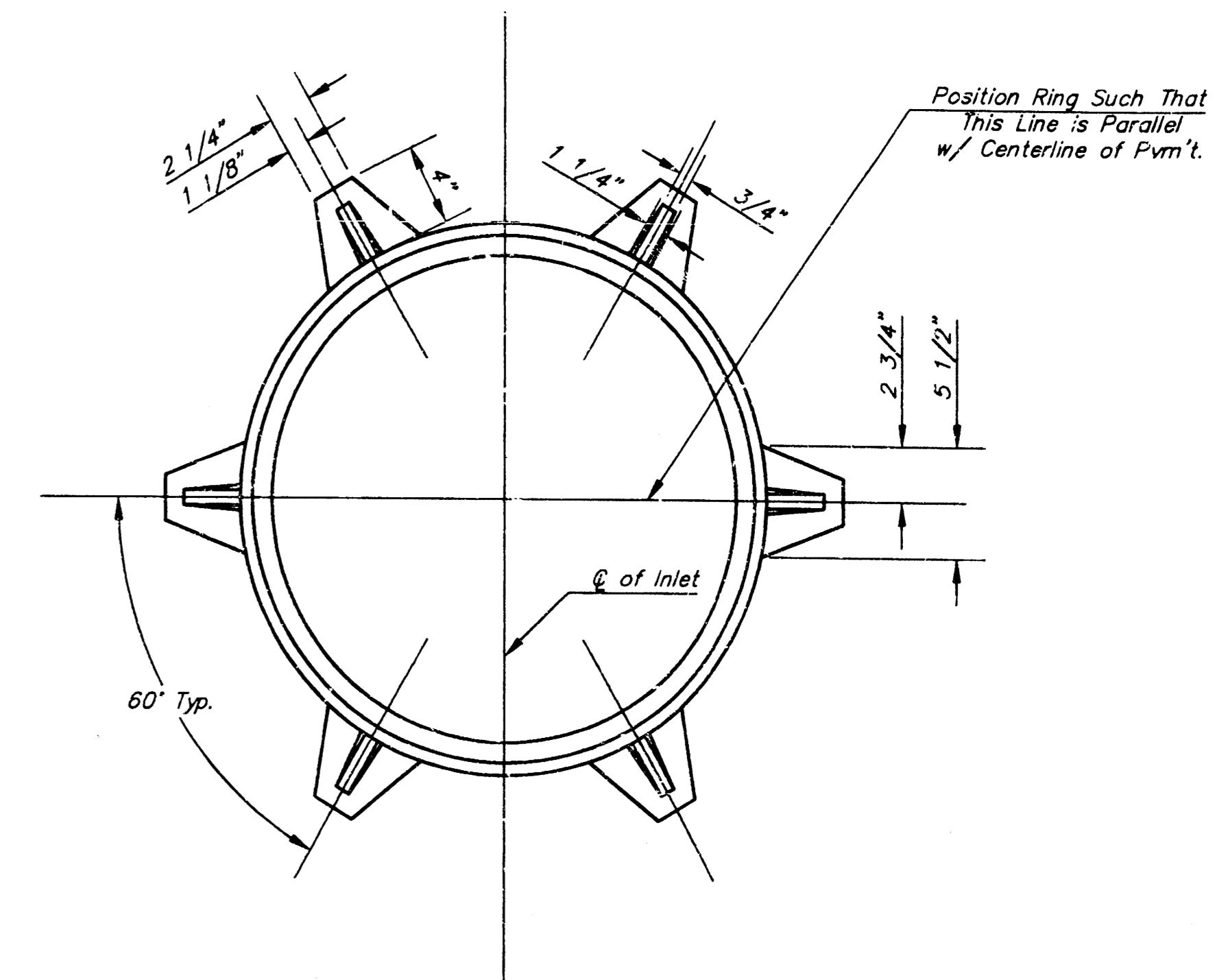
F:\Active Projects\Tom Brockus\270\SWS Bradley Fair 3rd Addition (SWS) Mod Oct 22 14:09:29 1997 TEB



- Notes:
- Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Natched out as indicated to Facilitate Construction of Curb.
 - b₄ Bar to be Field Bent to Clear Inlet Frame.

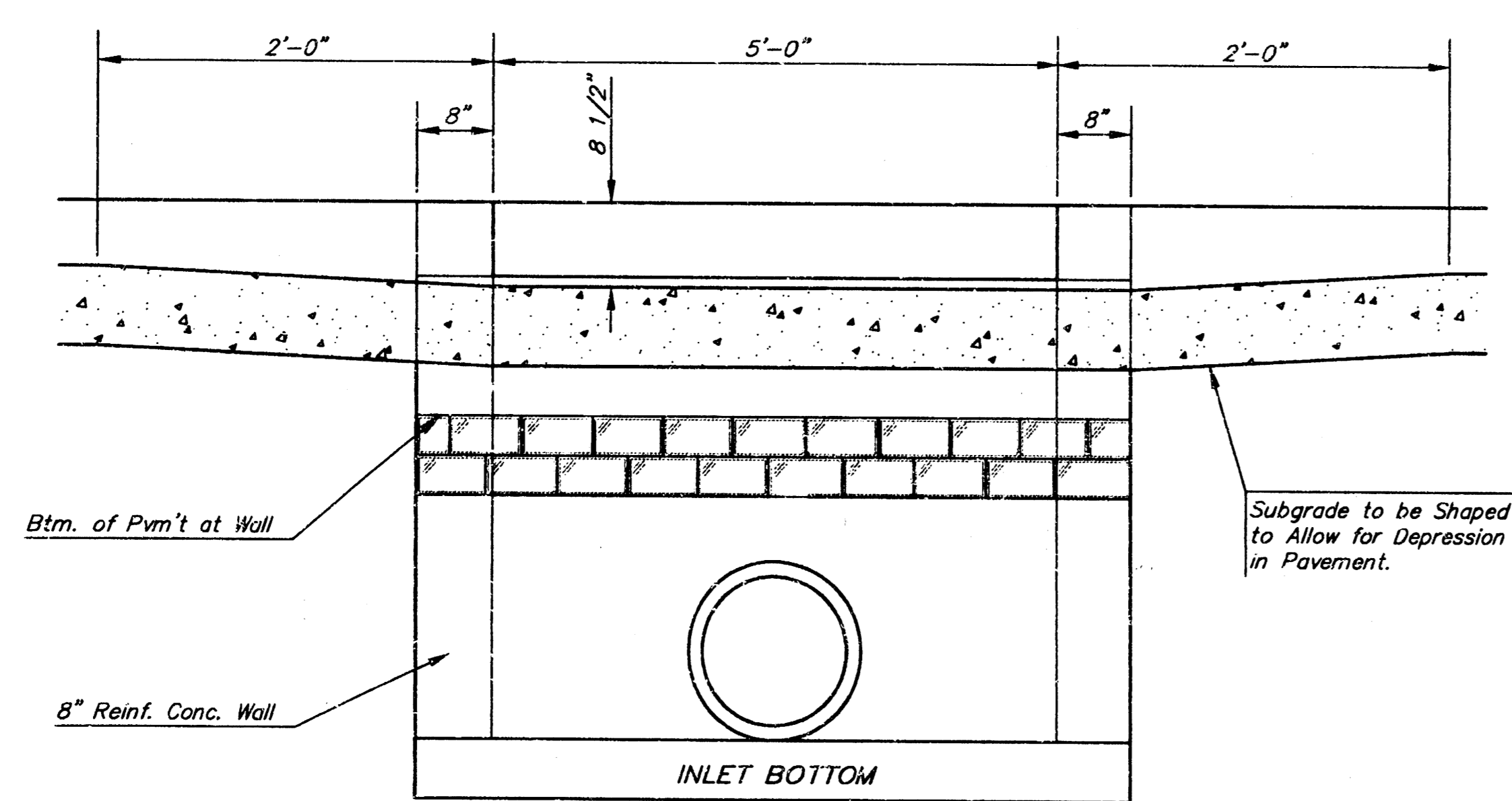


SECTION A-A

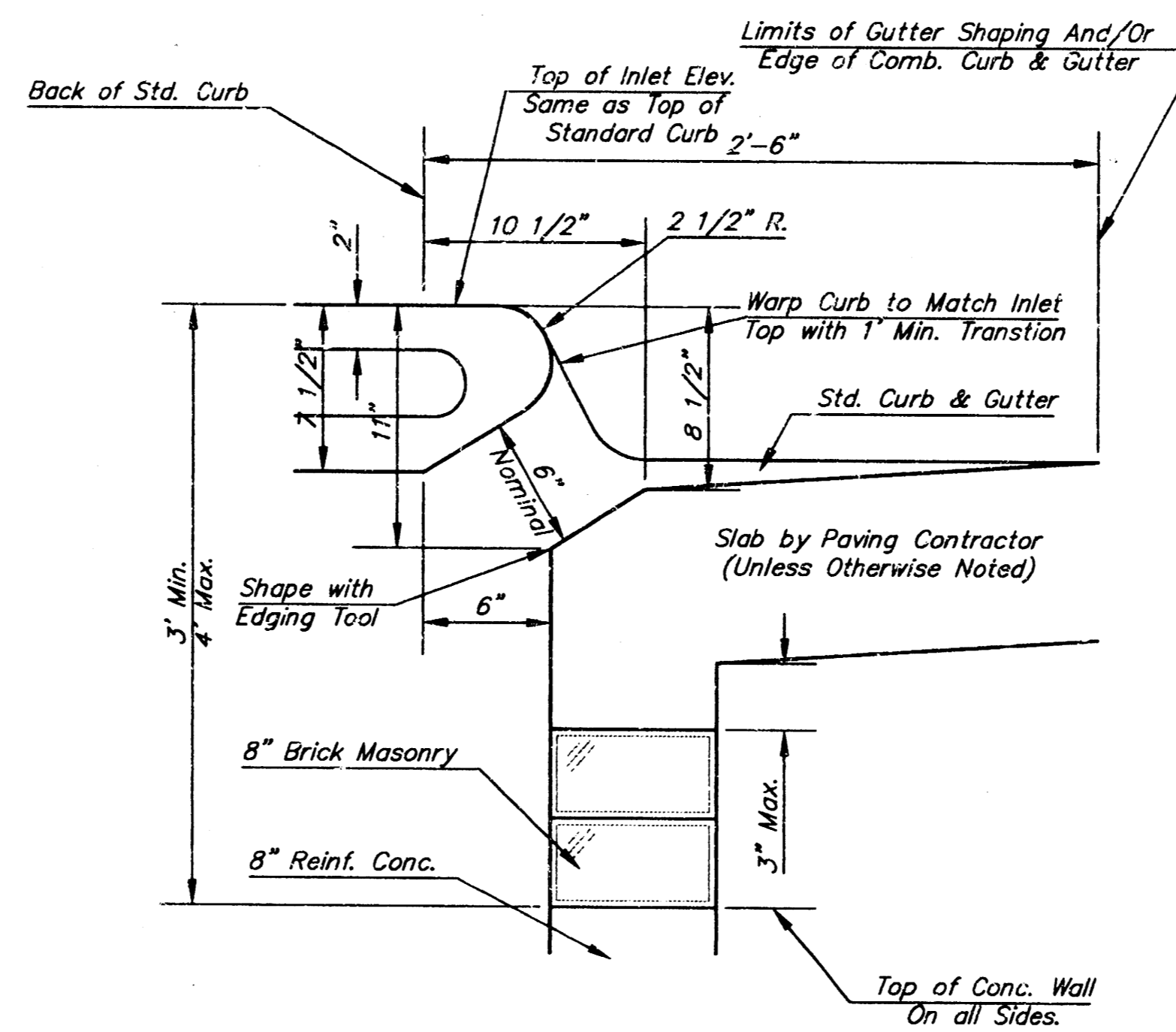


MANHOLE RING AND COVER

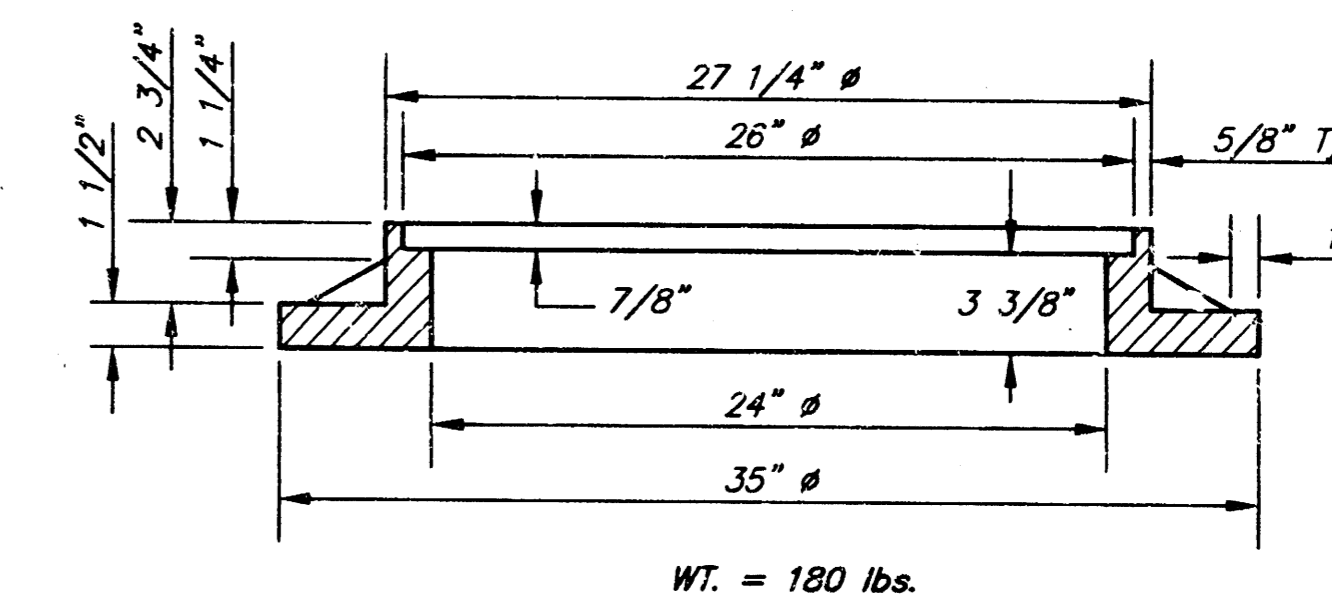
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



SECTION C-C



SECTION B-B



BENDING DIAGRAM

STEEL SCHEDULE

BAR NUMBER	a ₁		b ₁					b ₂		b ₃	b ₄	Wt. Lbs.
	4	4	2	1	3	5	7	9	6			
SIZE	#4	#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"	5'-2"	4'-8"	121±
	W=8'-4"	13'-7"	14'-7"	8'-0"	-	-	-	6'-1"	1'-9"	6'-2"	4'-8"	141±

Note: a₂ Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS		
W	PRE-CAST TOP SIZE	PIPE SIZE
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"

GENERAL NOTES

- 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.
- 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.
- 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.

THE CITY OF WICHITA
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
450 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 245-5901
(316) 268-4114 FAX

**STANDARD TYPE 1
CURB INLET
OPENING = 6"x5'-0"**

M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	INDEX CODE
738 PPS	(607861)
DATE	SHEET 3 OF 3
MAR 96	