

PRIVATE STORM SEWER TO SERVE LOT 1, BLOCK 1

BRADLEY FAIR 3RD ADDITION

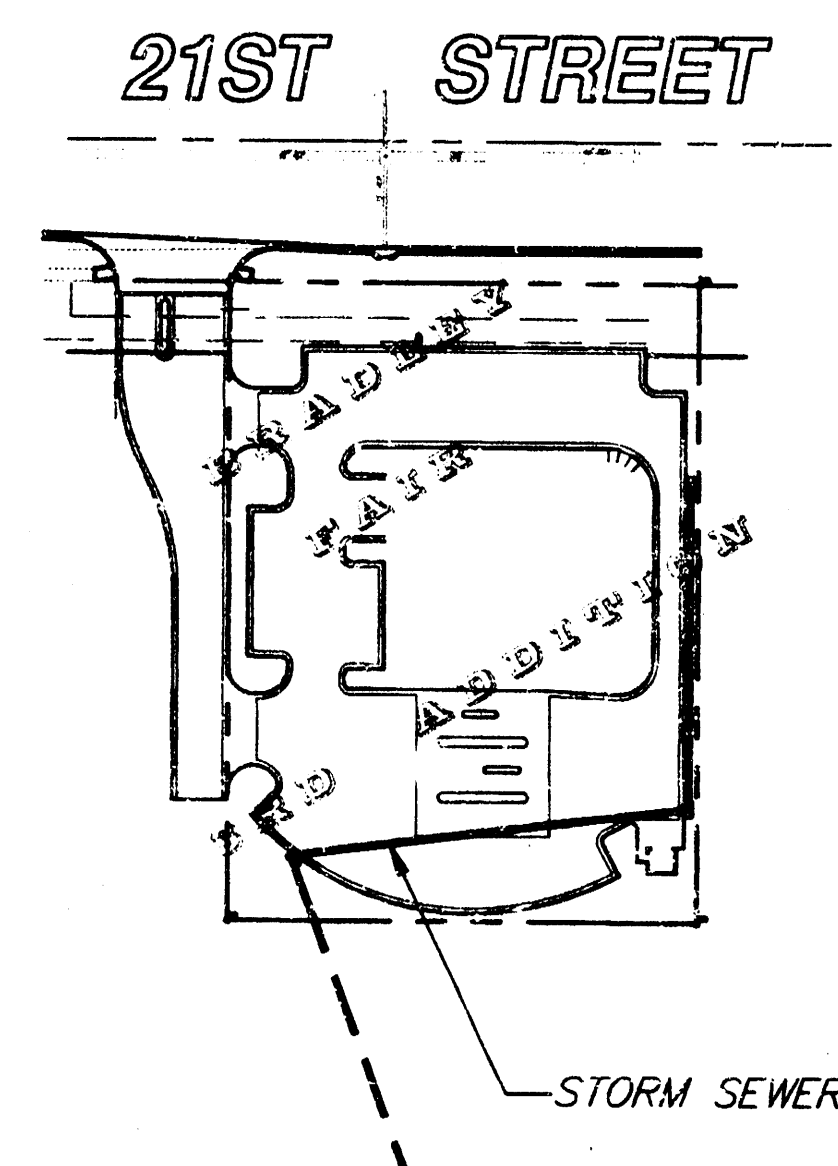
PRIVATE STORM SEWER # 738 PPS (607861)

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-78.
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

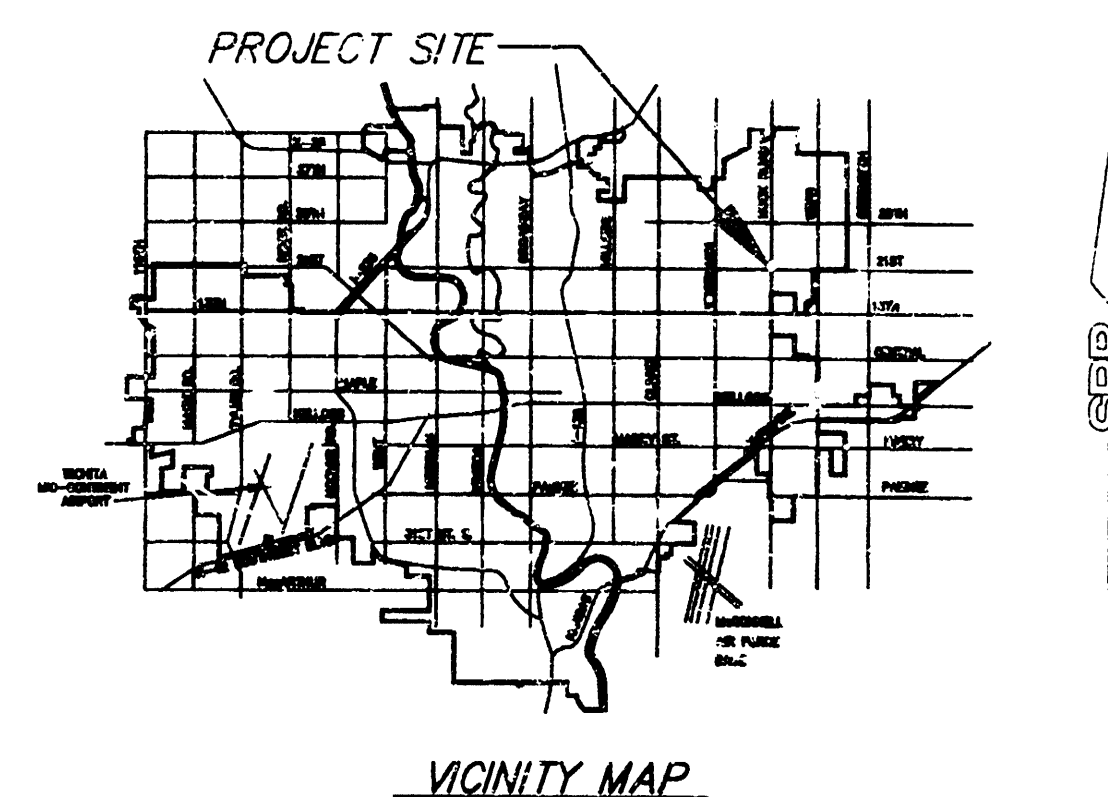
1. TITLE SHEET
2. STORM SEWER PLAN & PROFILE
3. STANDARD TYPE 1 CURB INLET



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



A

By Rational Formula:		Q=CIA
Impervious Area	13,303 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	

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	

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	

RUNOFF CALCULATIONS:



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____

Storm Sewers VRH 10/22/97

Driveway Approaches _____

Water Mains _____

Paving _____

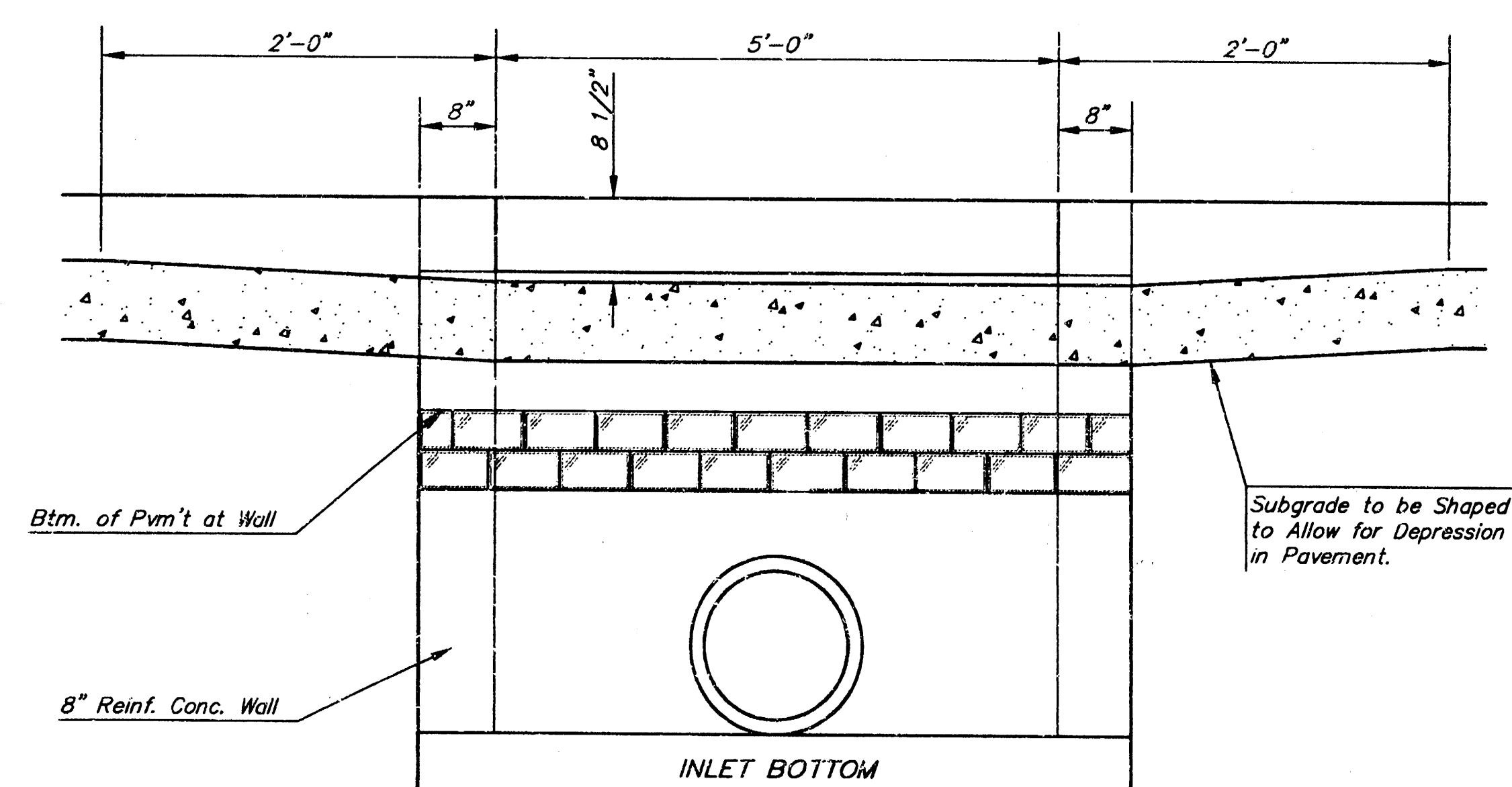
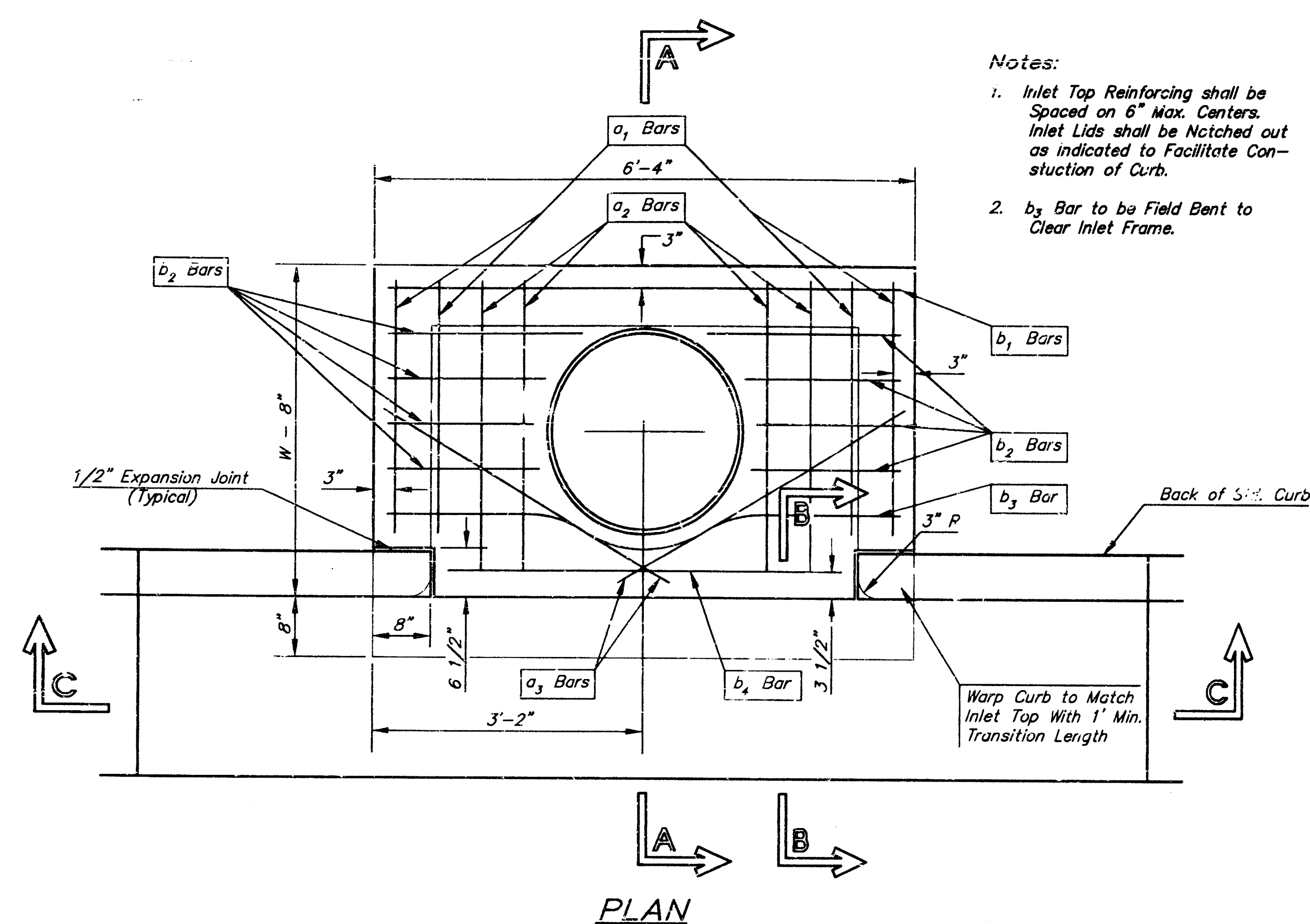
NOTE TO CONTRACTORS

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



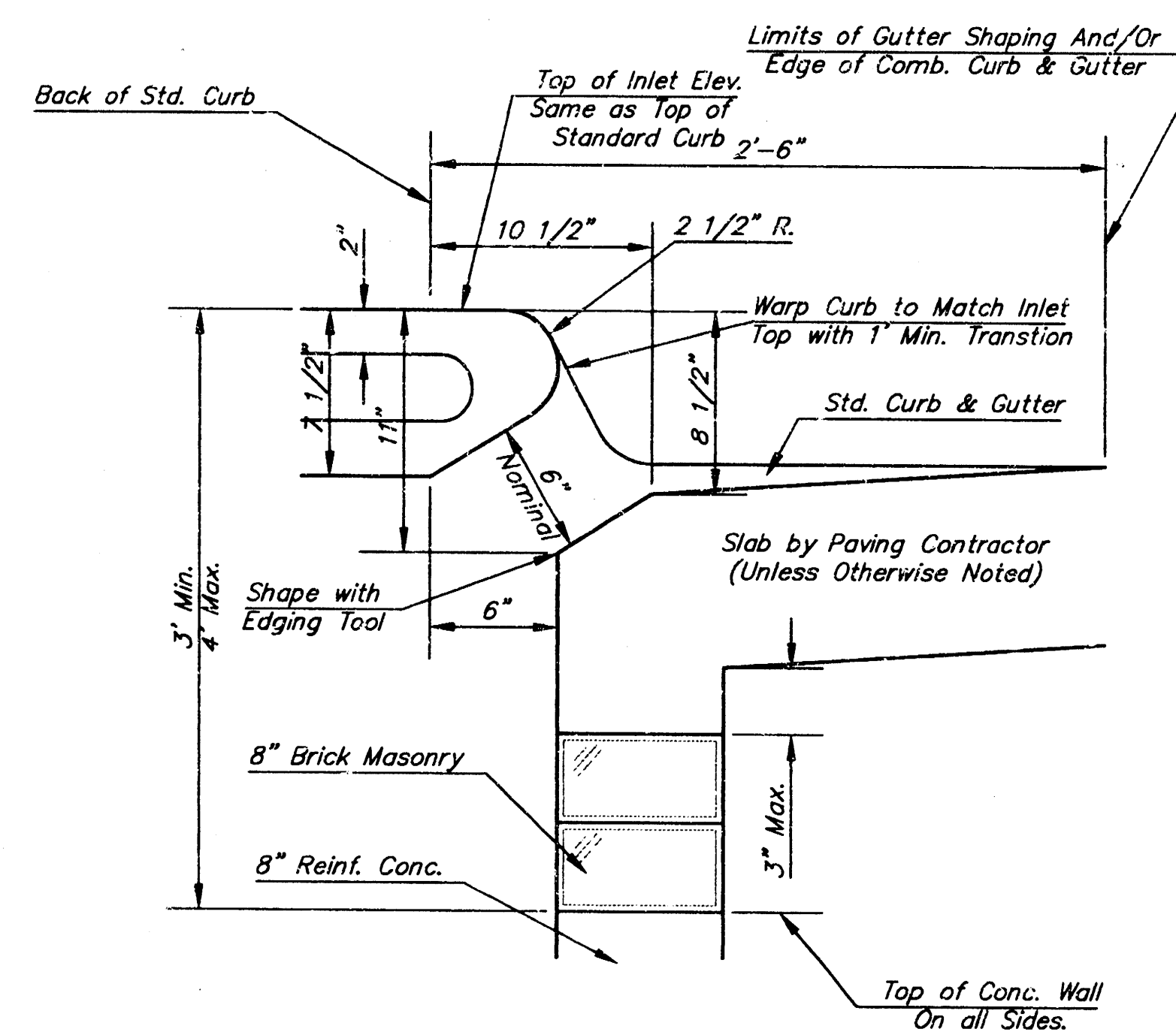
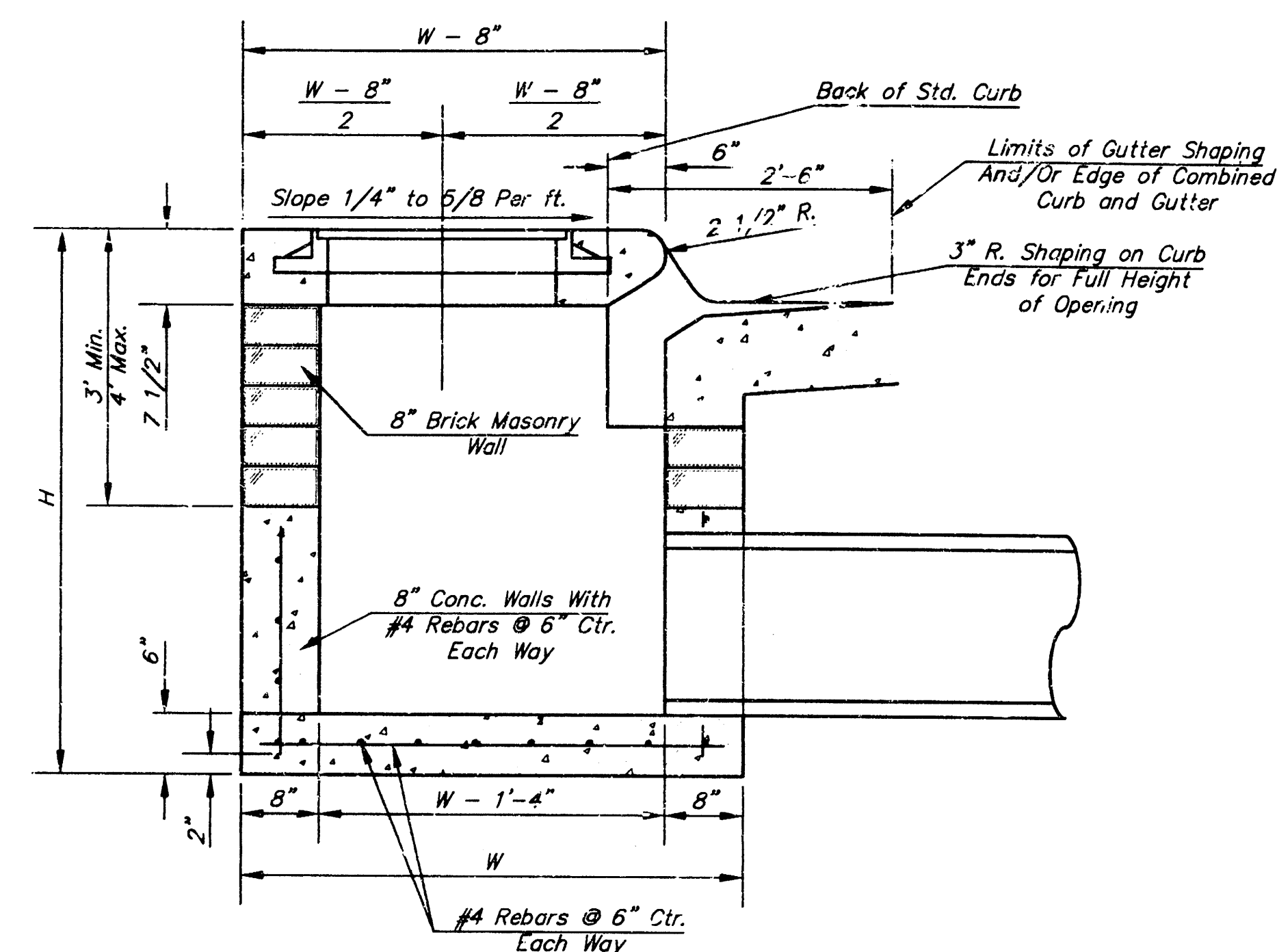
STEEL SCHEDULE

BAR	a ₁	a ₂	a ₃	b ₁				b ₂	b ₃	b ₄	WT. Lbs.	
				W=4'-4"	W=5'-4"	W=6'-4"	W=7'-4"	W=8'-4"				
NUMBER	4	4	2	1	3	5	7	9	6	1	1	
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"	6'-2"	4'-8"	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.

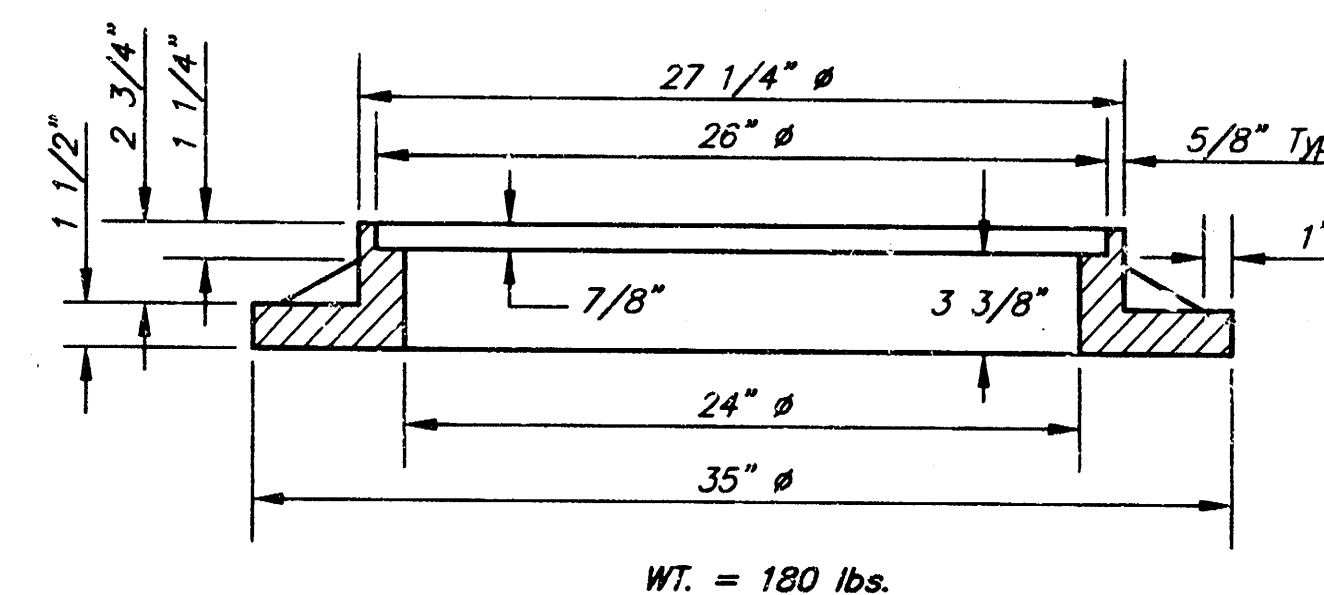
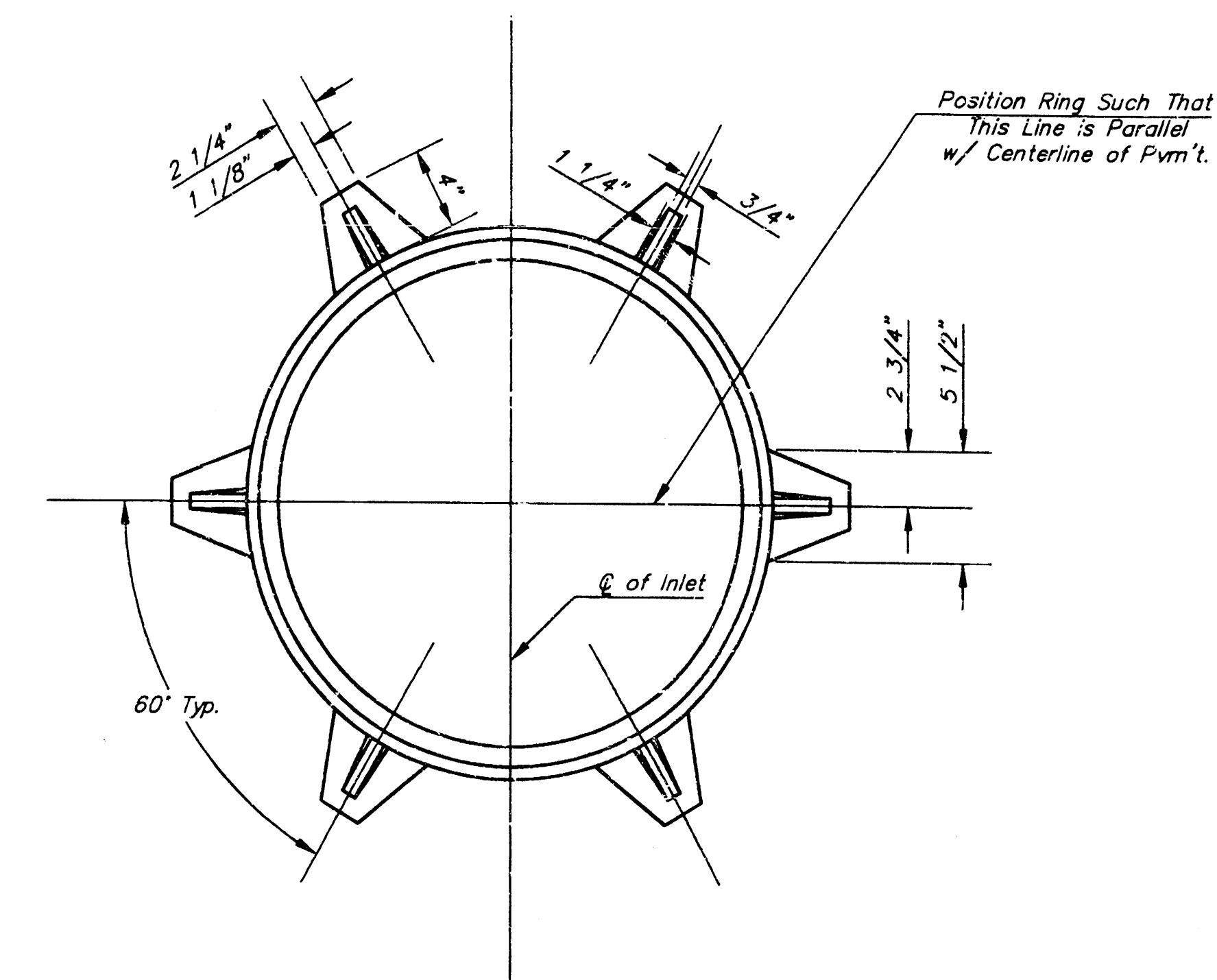
STANDARD CURB INLET PRECAST TOPS

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



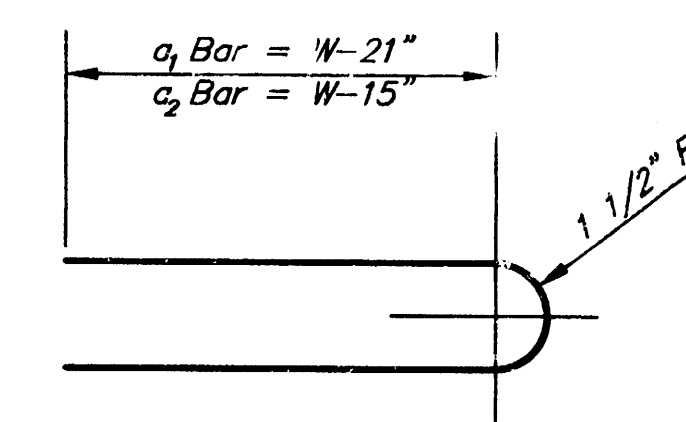
GENERAL NOTES

- 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.



MANHOLE RING AND COVER

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



THE CITY OF WICHITA CITY ENGINEER'S OFFICE 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-5901 (316) 268-4114 FAX	STANDARD TYPE 1 CURB INLET OPENING = 6'x5'-0"	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 738 PPS	INDEX CODE (607861)
	DATE MAR 96	SHEET 3 OF 3