

STORM WATER SEWER TO SERVE THE S. 250 FEET OF LOT 1, BLOCK A dePAUL ADDITION

PROJECT NO. : 1097 PPS
OCA #: 607861

GENERAL NOTES

1. Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to starting any excavation as follows:

Kansas One-Call 687-2470

2. The Contractor must notify the following in case of an emergency:

Cablevision 262-4270 or 263-2061
Kansas Gas Service 383-8650
K.G.E. 383-8600
Peoples Natural Gas Company 942-8350 or 263-8161
Southwestern Bell Telephone Company 1-571-2811
City of Wichita Water Department 268-4908
City of Wichita Sewer Maintenance 268-4071

3. One lane of traffic on Newell to remain open at all times.

4. 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.

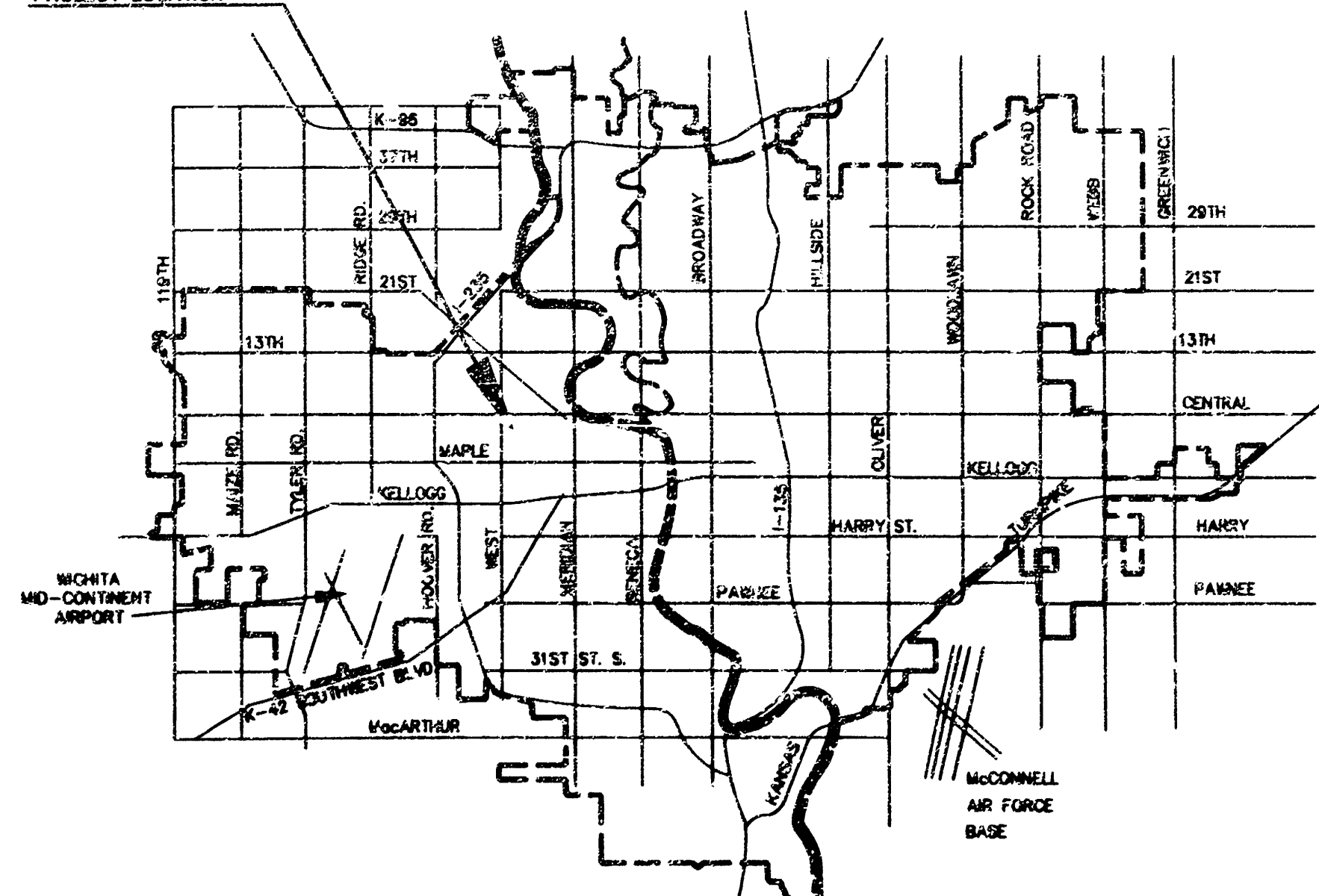
5. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

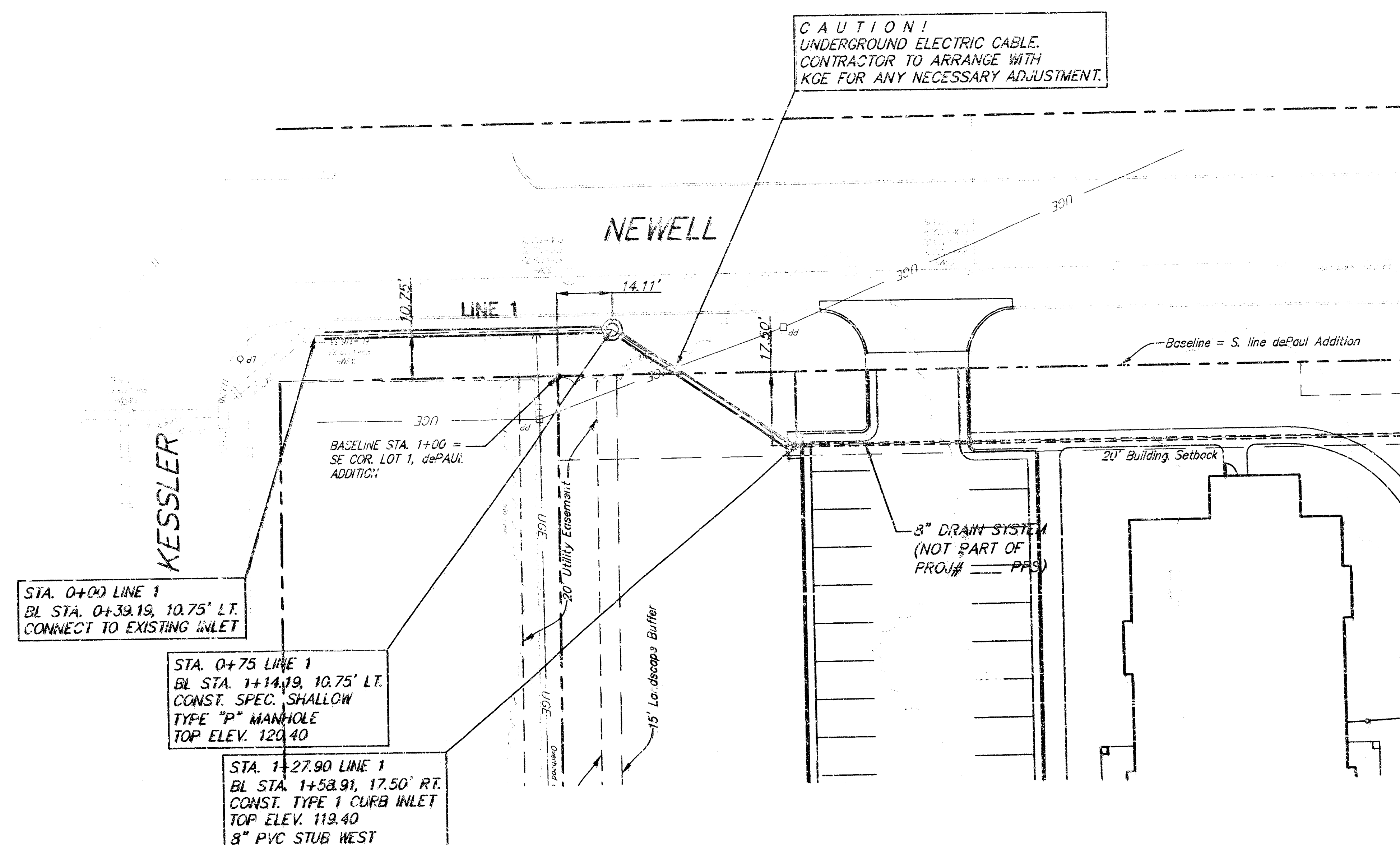
6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

7. The Contractor shall obtain the necessary permits from the Office of Central Inspection prior to any roof drain hook-up to the storm water sewer system.

8. All work on this project to be in accordance with City of Wichita Standard Specifications dated March 1998. Inlet and manhole construction to be according to standard details on file in the Engineering Division of the City of Wichita.

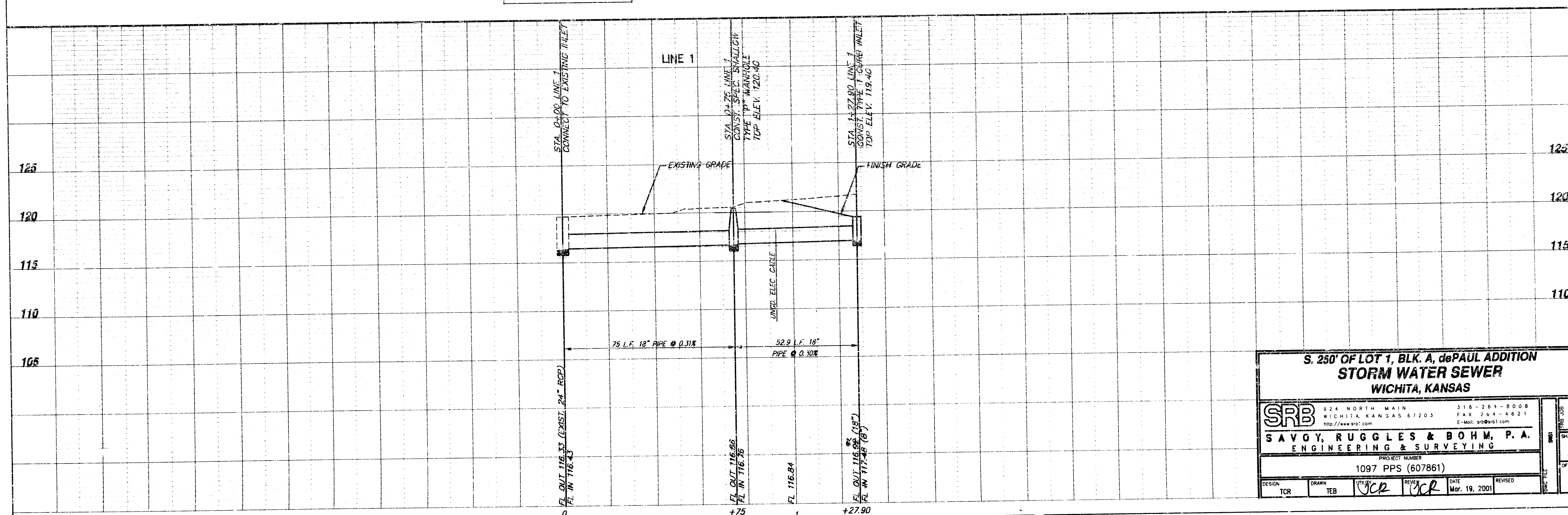
PROJECT LOCATION



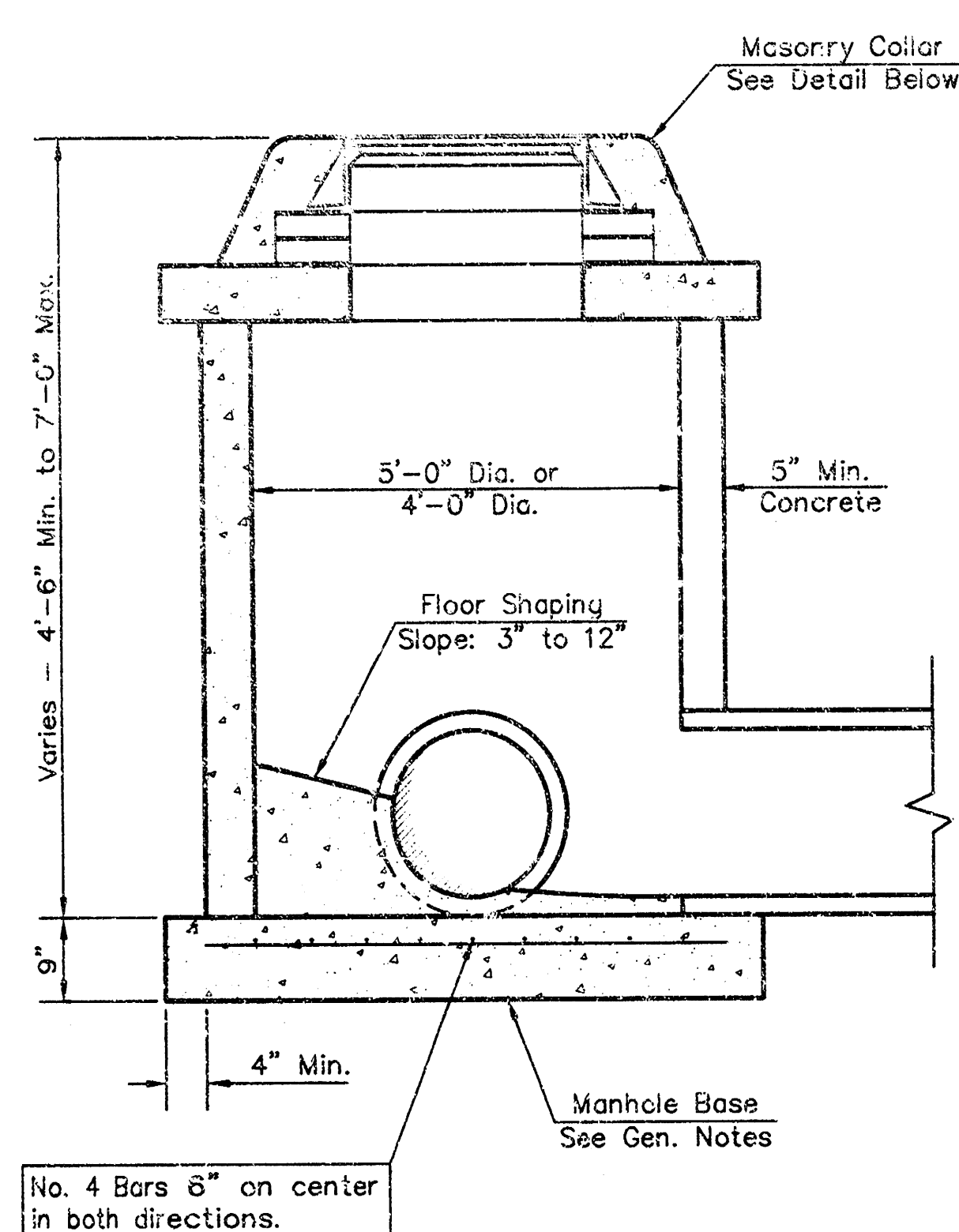


SRB

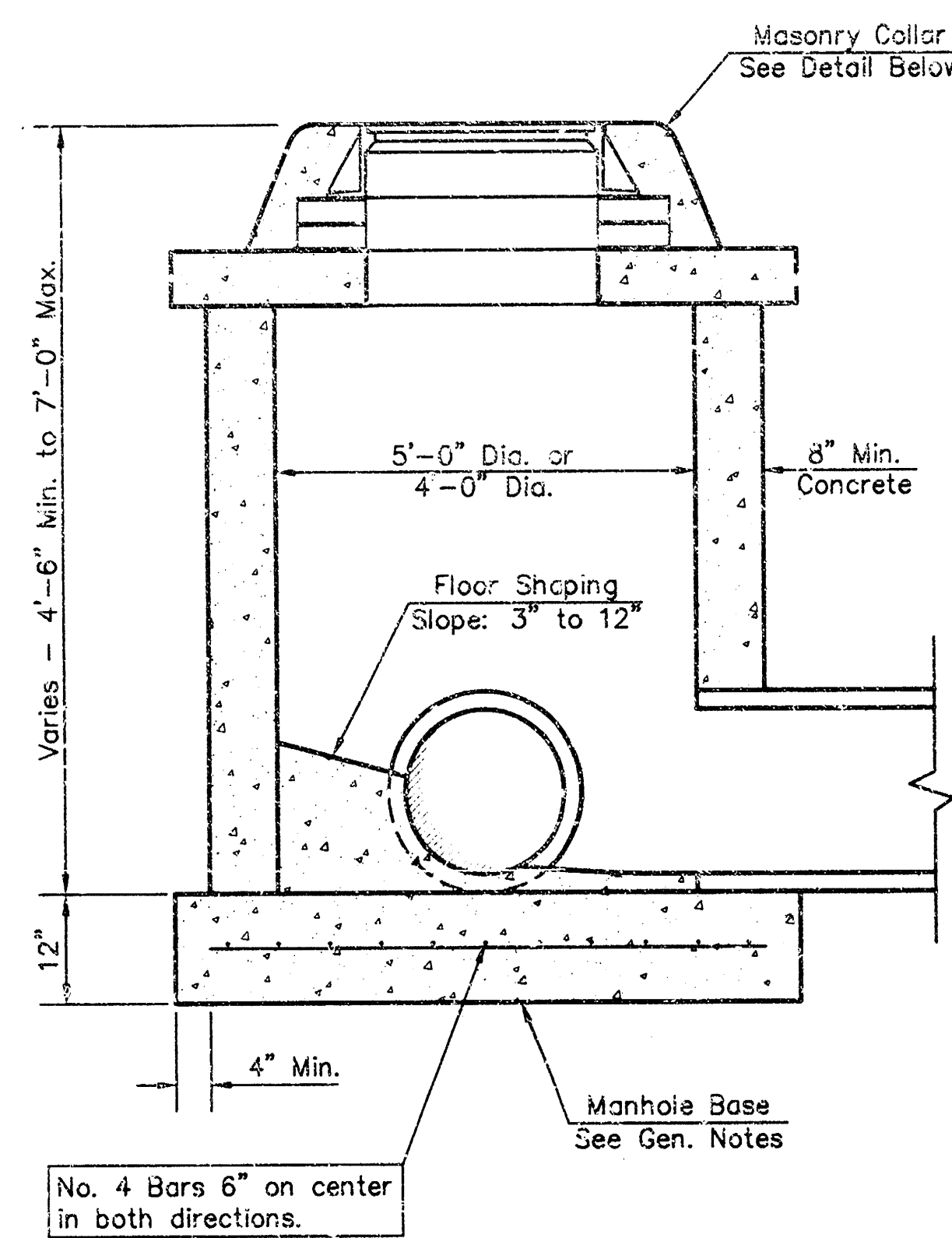
Scale: PLAN
1" = 20'
PROFILE
1" = 20" Horiz.
1" = 5" Vert.



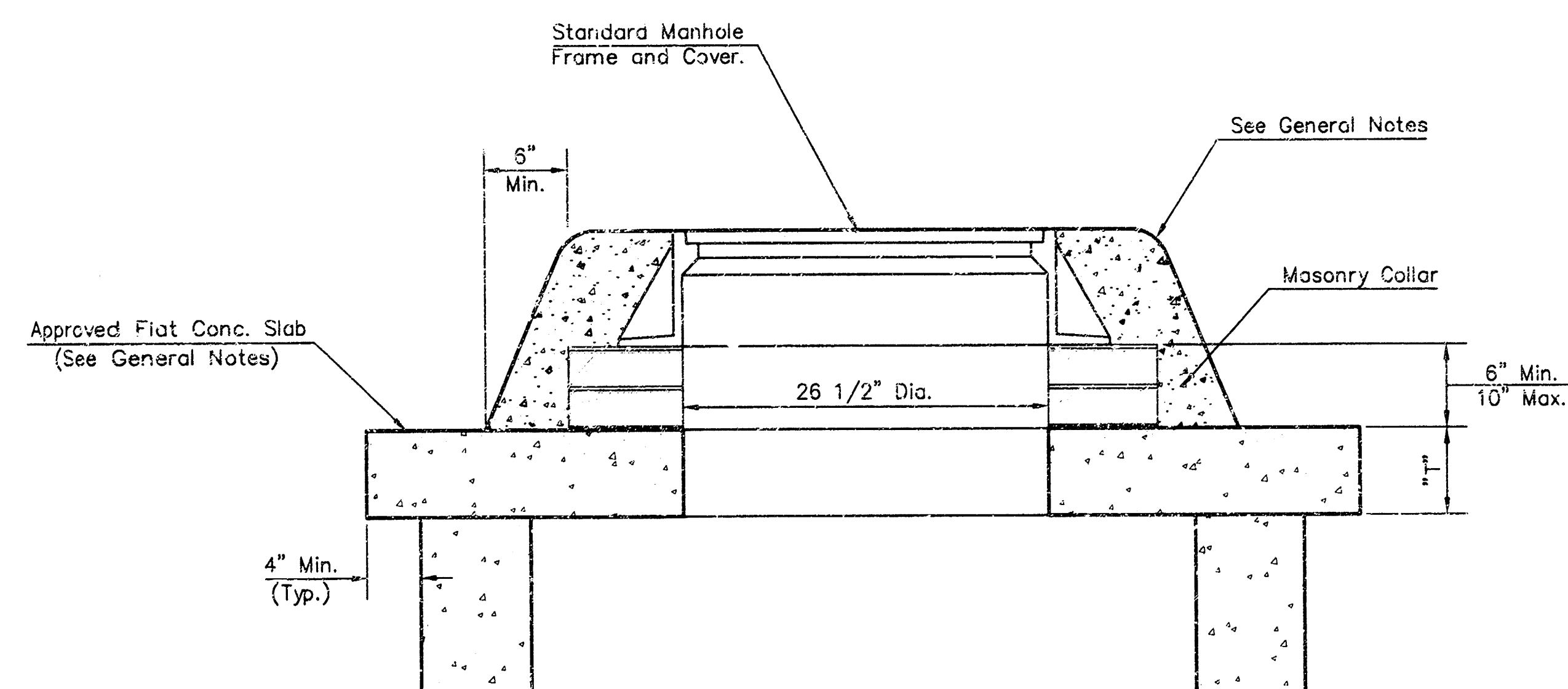
S. 250' OF LOT 1, BLK. A, dePAUL ADDITION STORM WATER SEWER WICHITA, KANSAS			
SRB	624 NORTH MAIN WICHITA, KANSAS 67203 http://www.srb.com	316-264-8008 FAX 316-4621 E-Mail: srb@srbi.com	SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING
PROJECT NUMBER 1097 PPS (607861)			
DESIGN TCR	DRAWN TEB	CHECKED JCR	DATE Mar. 19, 2001
SHEET 2 OF 4			REVISIONS 4



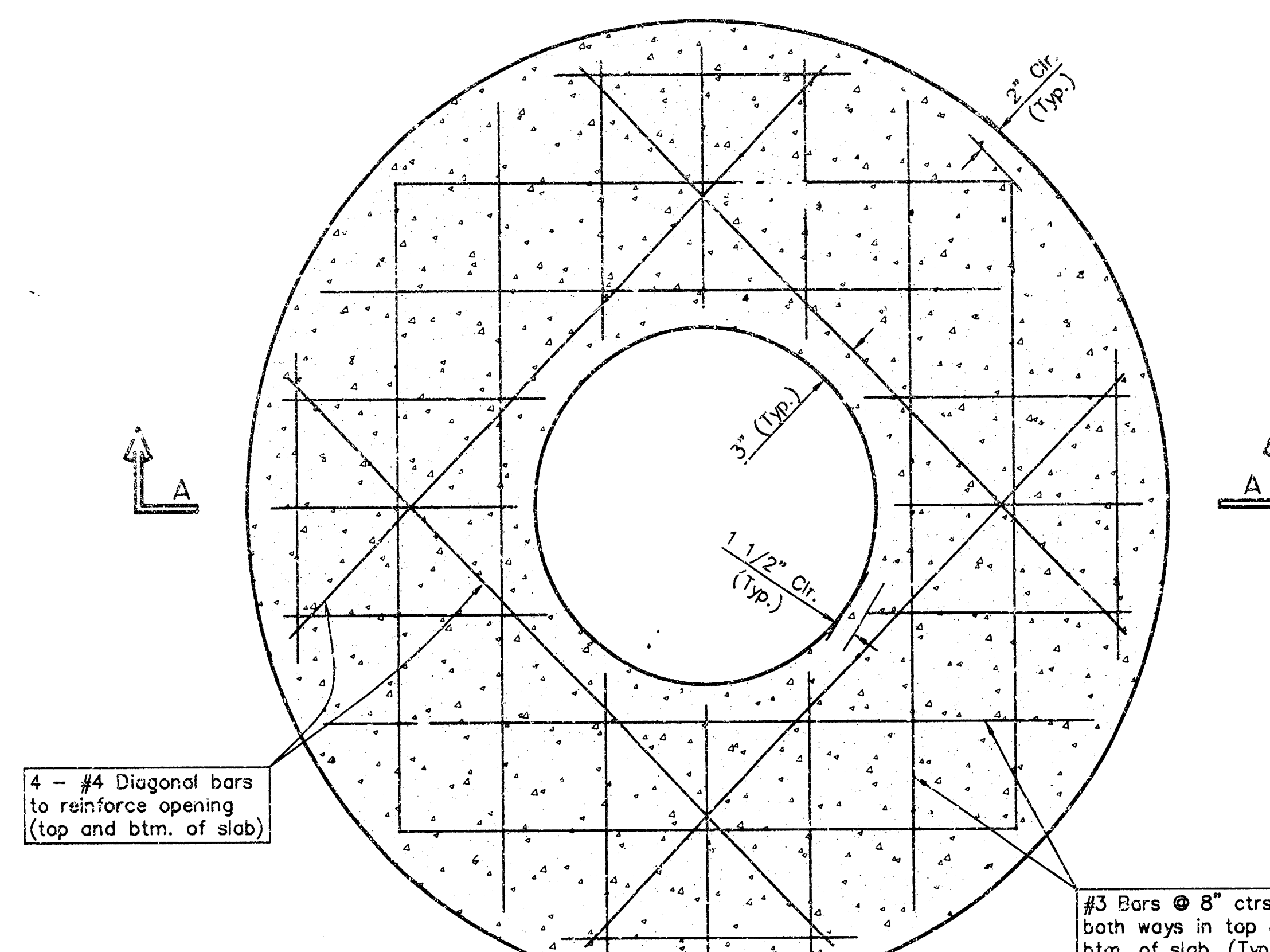
SHALLOW TYPE "P" MANHOLE



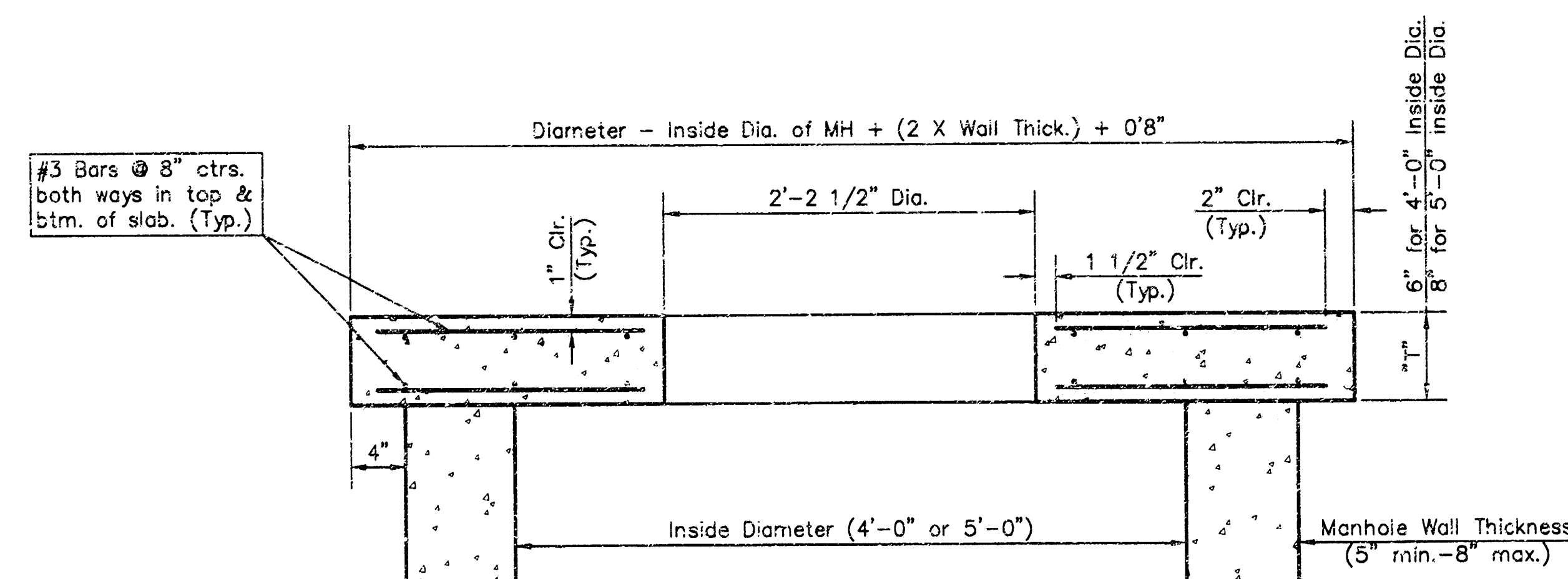
SHALLOW TYPE "C" MANHOLE



MASONRY COLLAR DETAIL



PLAN



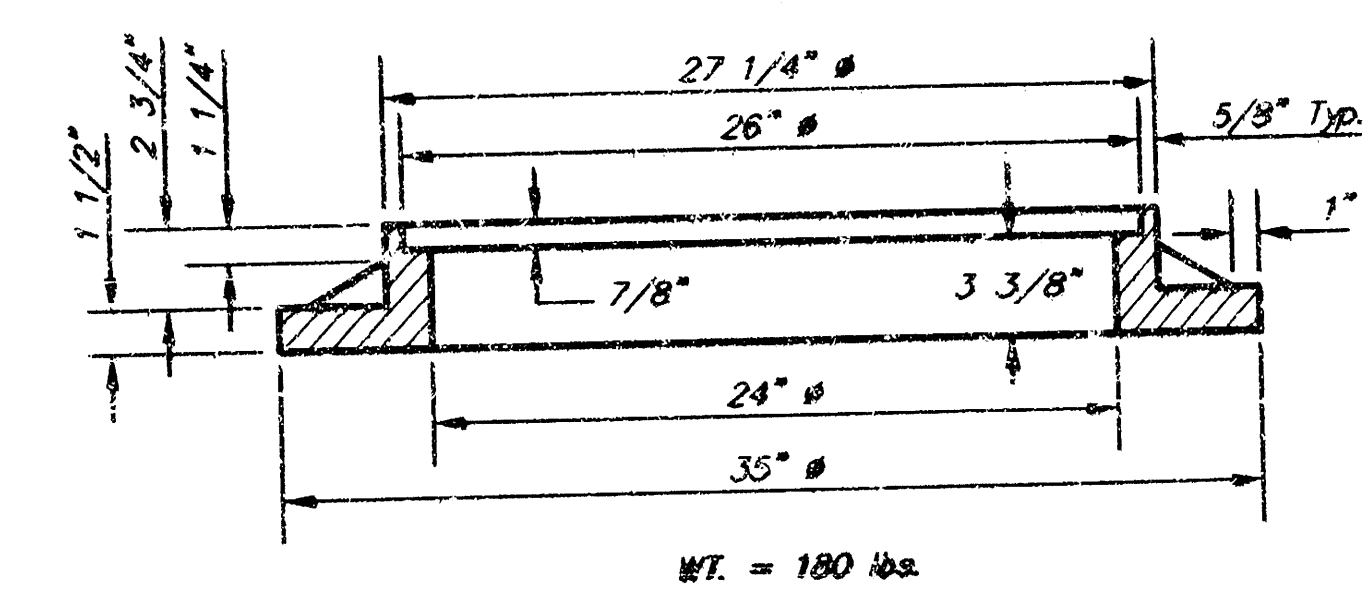
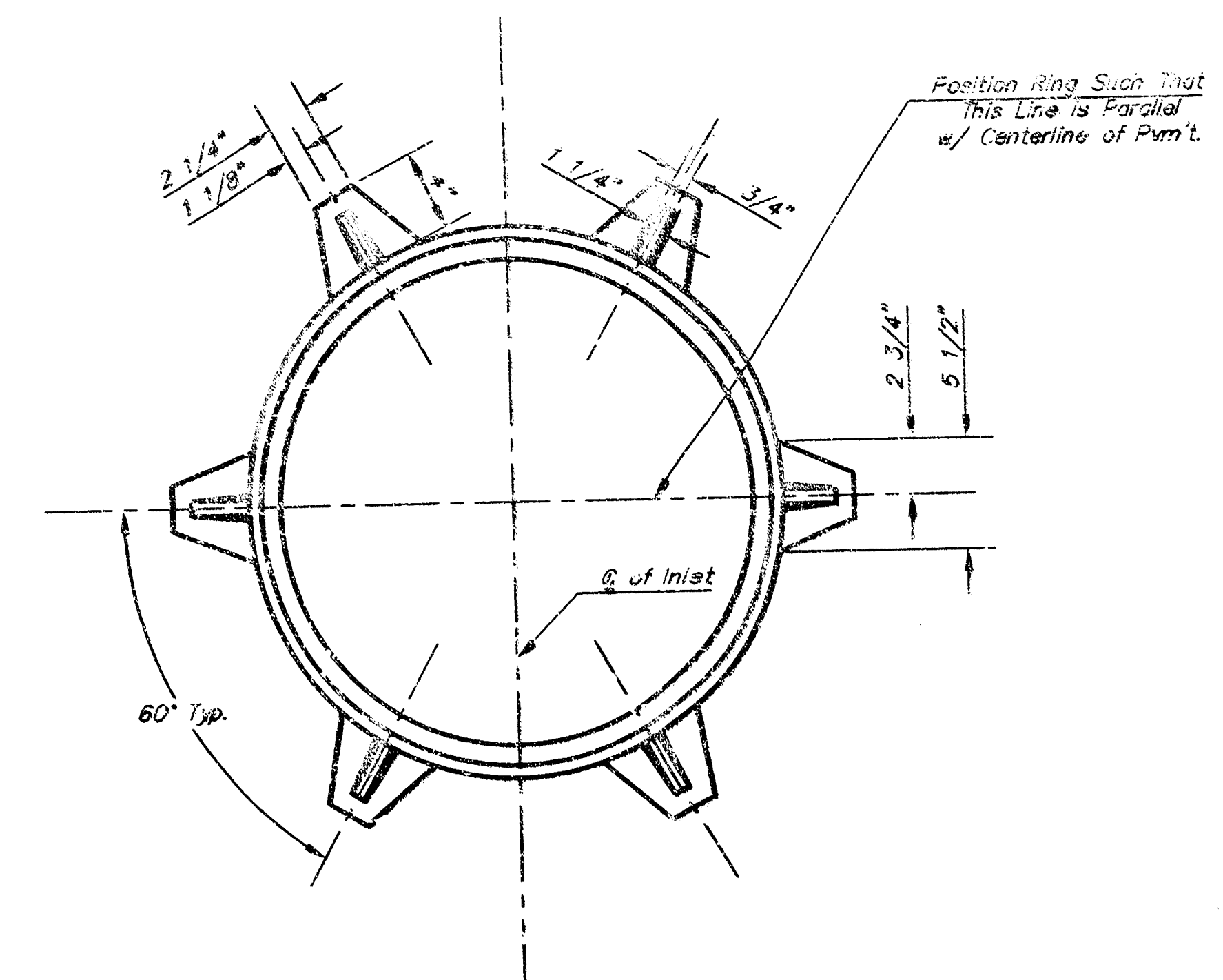
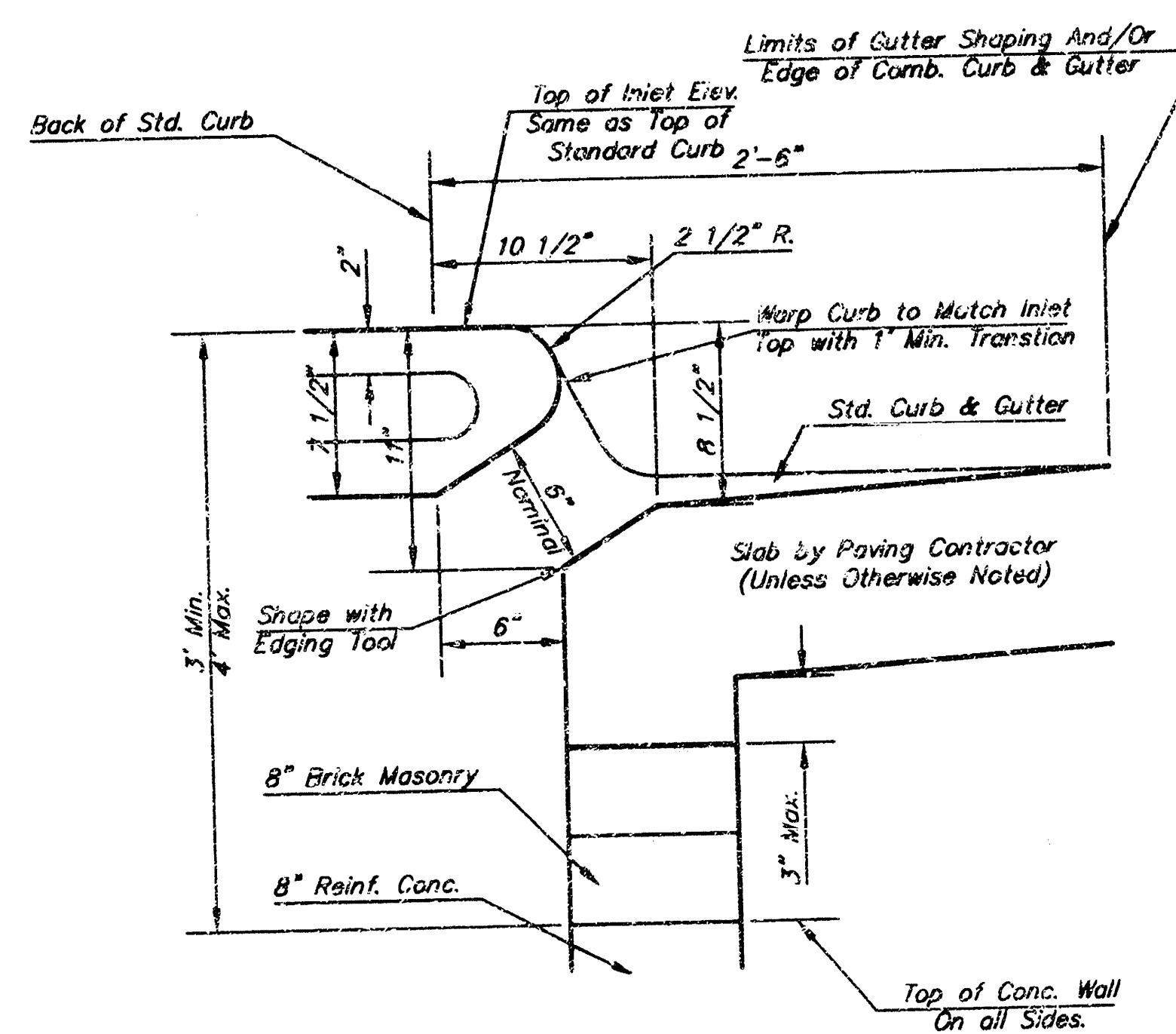
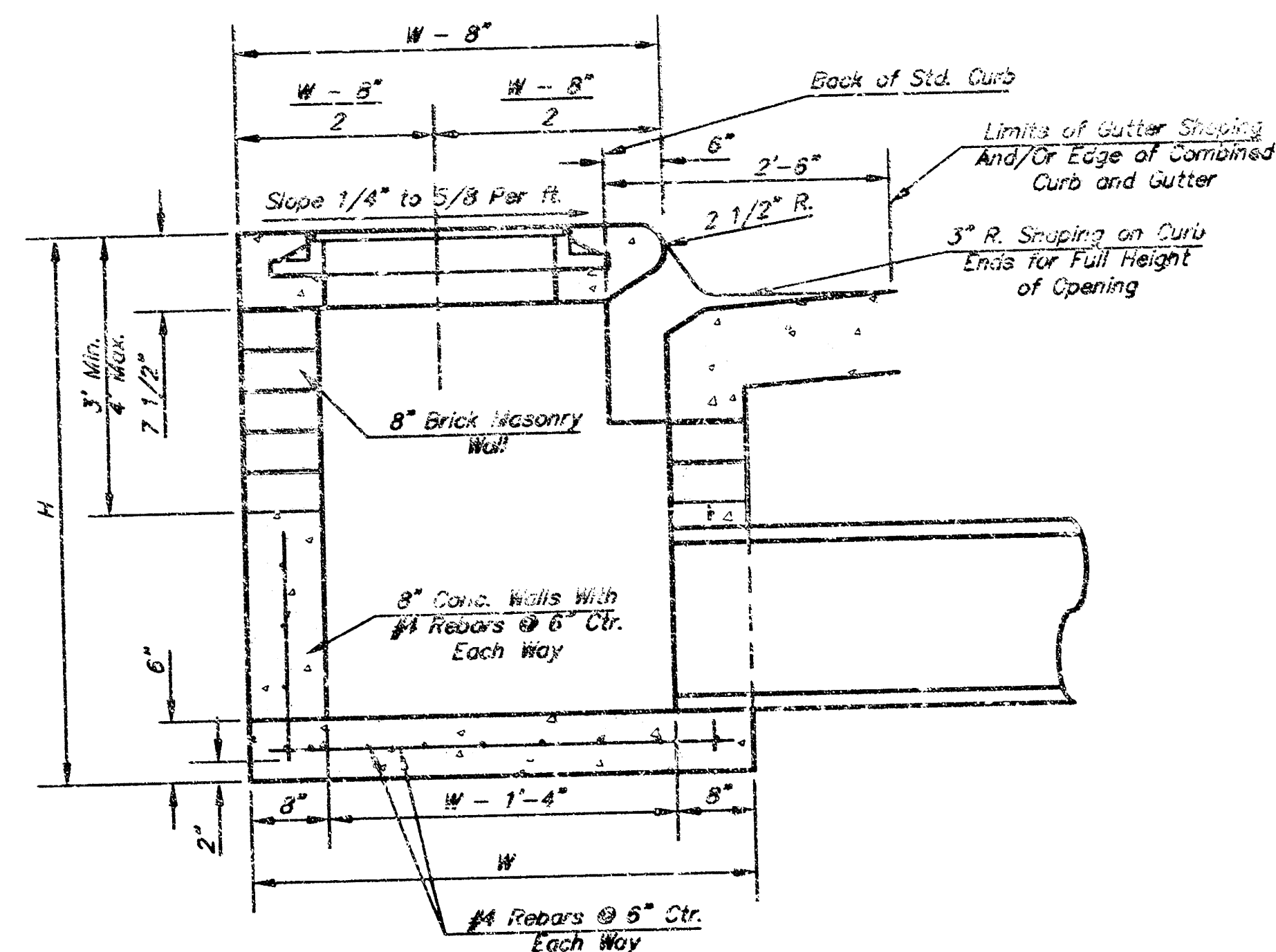
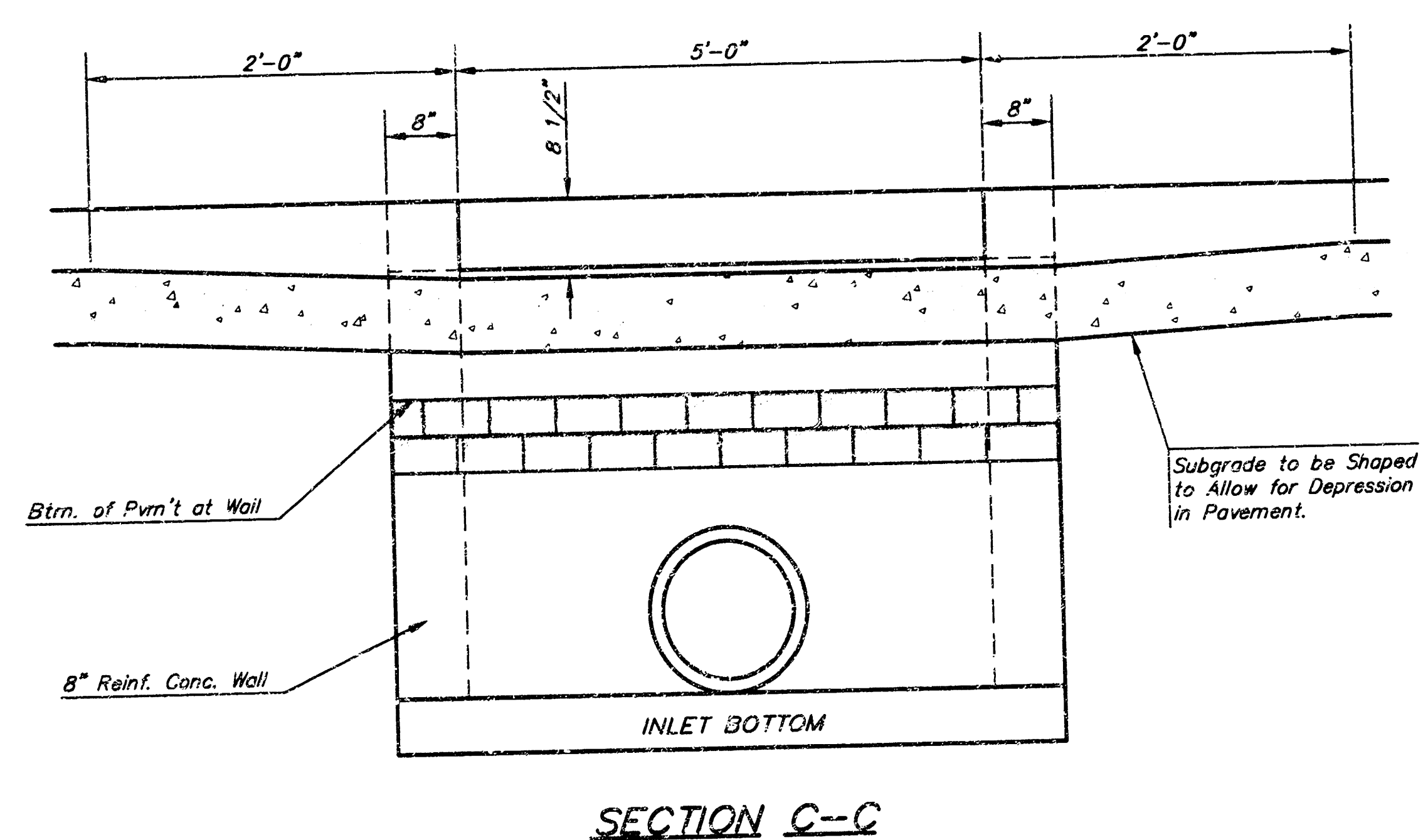
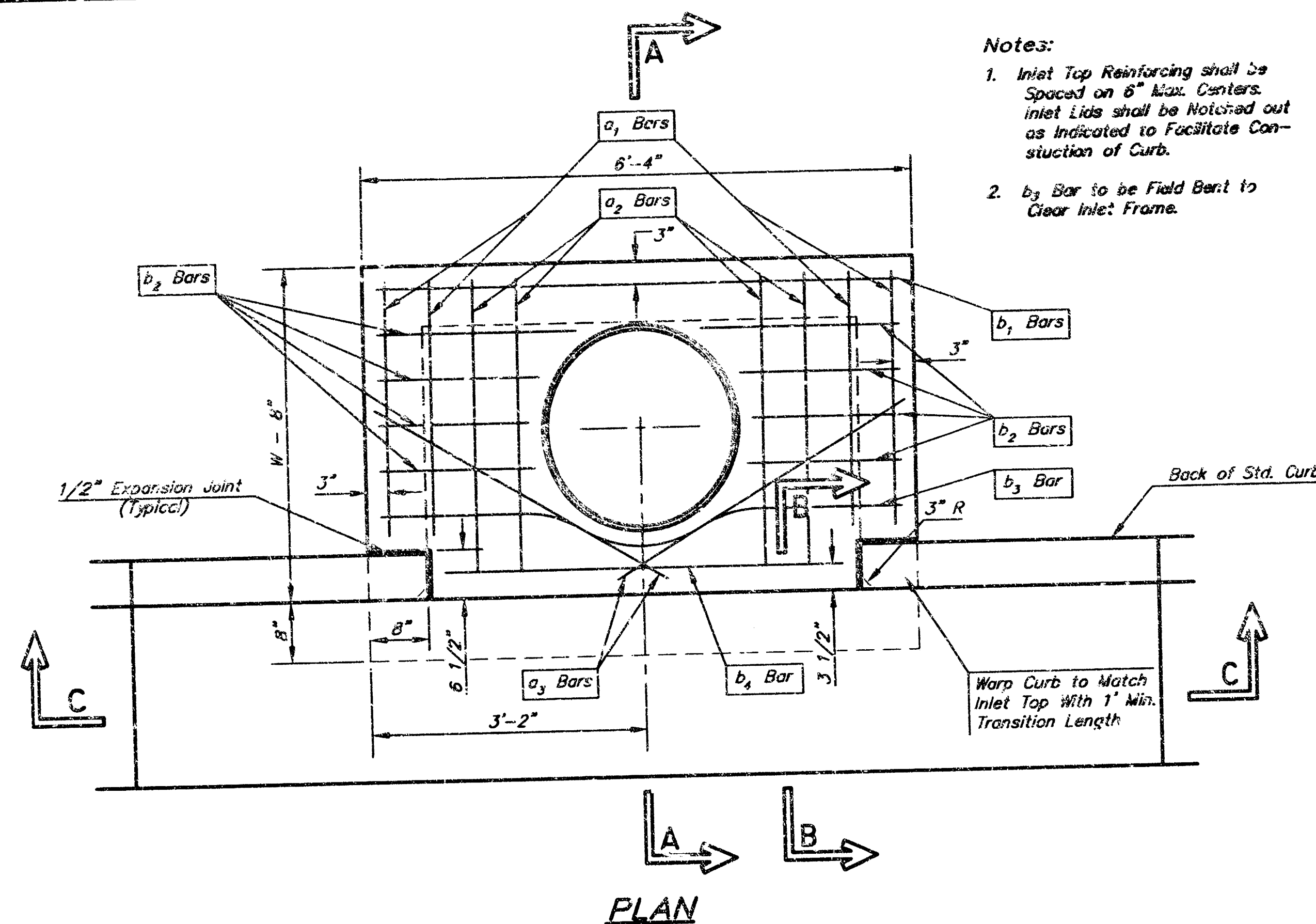
SECTION A-A

FLAT CONCRETE SLAB DETAILS

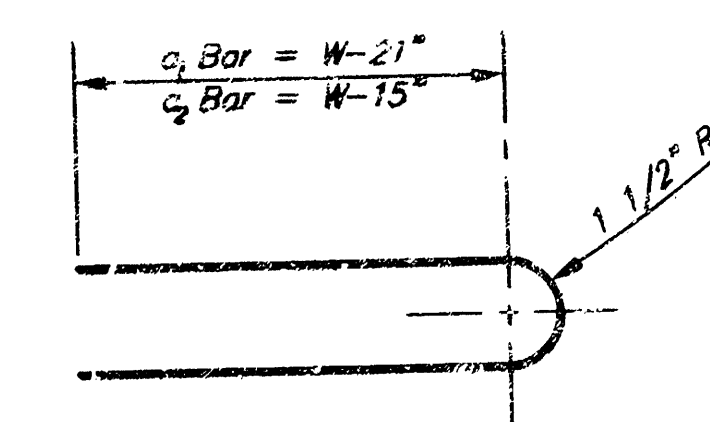
GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 8" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to rest lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover coatings and manhole frame coatings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

THE CITY OF WICHITA  CITY ENGINEER'S OFFICE CITY HALL, SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4501 (316) 268-4114 FAX	SHALLOW MANHOLES TYPE "P" AND "C"	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 1097 PPS	DCA # 607861
	DATE MAR 96	SHEET 3 OF 4
	DATE MAR 96	



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



STEEL SCHEDULE

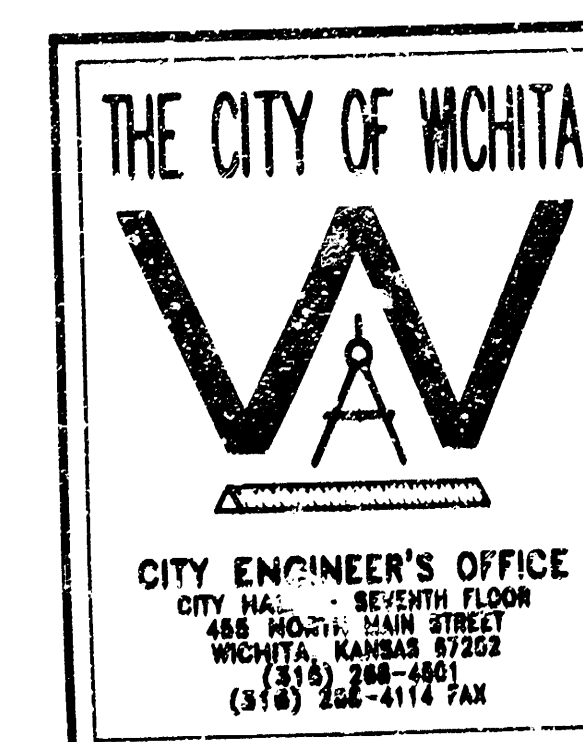
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. Lbs.
NUMBER	4	4	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4	#4
LENGTH	W-4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	-
	W-5'-4"	7'-7"	8'-7"	5'-0"	-	6'-1"	-	-
	W-6'-4"	9'-7"	10'-7"	6'-0"	-	-	6'-1"	-
	W-7'-4"	11'-7"	12'-7"	7'-0"	-	-	-	6'-1"
	W-8'-4"	13'-7"	14'-7"	8'-0"	-	-	-	-

Note: a₃ Bars to be Placed Approx. 2" Below Top of Inlet Cover.

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'-0" 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 a 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.



STANDARD TYPE CURB INLET OPENING = 6"x5"

M. E. LINDBAK P.E. - CITY

PROJECT NUMBER

1097 PPS 607

DATE MAR 98 SHEET 4

18 11 01 05