

STORM WATER SEWER IMPROVEMENTS
TO SERVE

**PARK MEADOW ESTATES
THIRD ADDITION**

Private Project Number

745 PPS (607861)

CITY OF WICHITA, KANSAS
Michael E. Lindebak, P.E. City Engineer

BENCHMARK:

City of Wichita Benchmark at Webb Road
and Harry in Southeast Corner of Signal
Light Pole Base 42.7' SSE of Center of
Existing Fire Hydrant.

Elevation = 171.64 (City Datum)

GENERAL NOTES:

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

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

Cablevision 262-4270
or 263-2061
K.P.L. Gas Service Company 263-7511
Kansas Gas & Electric Company 264-1141
Arkia Gas Company 942-8350
or 263-8161
Southwestern Bell Telephone Company 1-571-2611
City of Wichita Water Department 268-4908
City of Wichita Sewer Maintenance 268-4071

2. 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. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. 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.

4. All areas disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Ground shall be prepared per City of Wichita specifications prior to seeding.

5. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

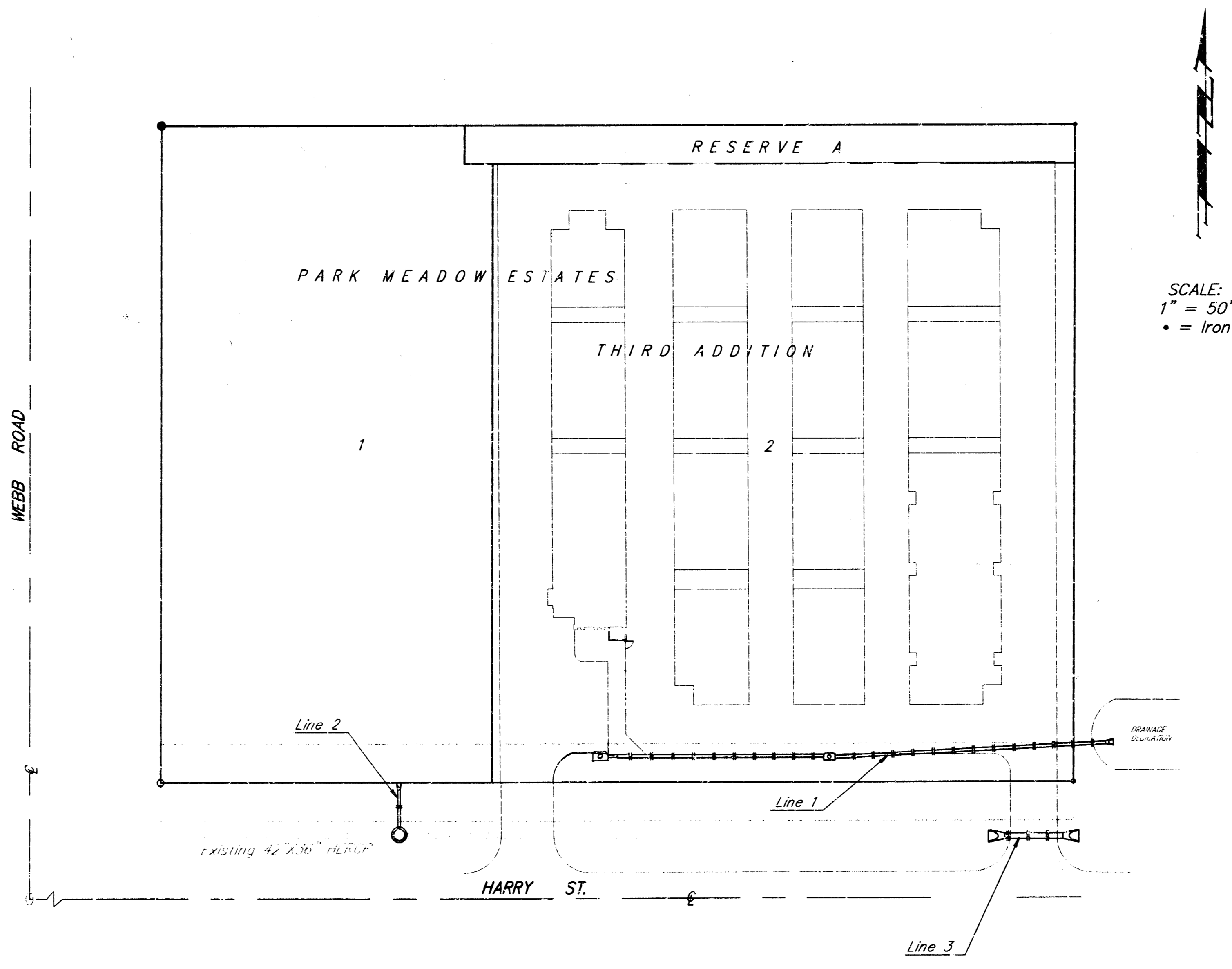
6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

7. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

8. Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.

INDEX:

- 1 Title Sheet
- 2 Lines 1, 2 & 3
- 3 Single Type 1 Inlet Detail
- 4 Double Type 1 Inlet Detail
- 5 Standard Shallow Manhole Detail
- 6 Park Meadow Estates Third Addition Plat

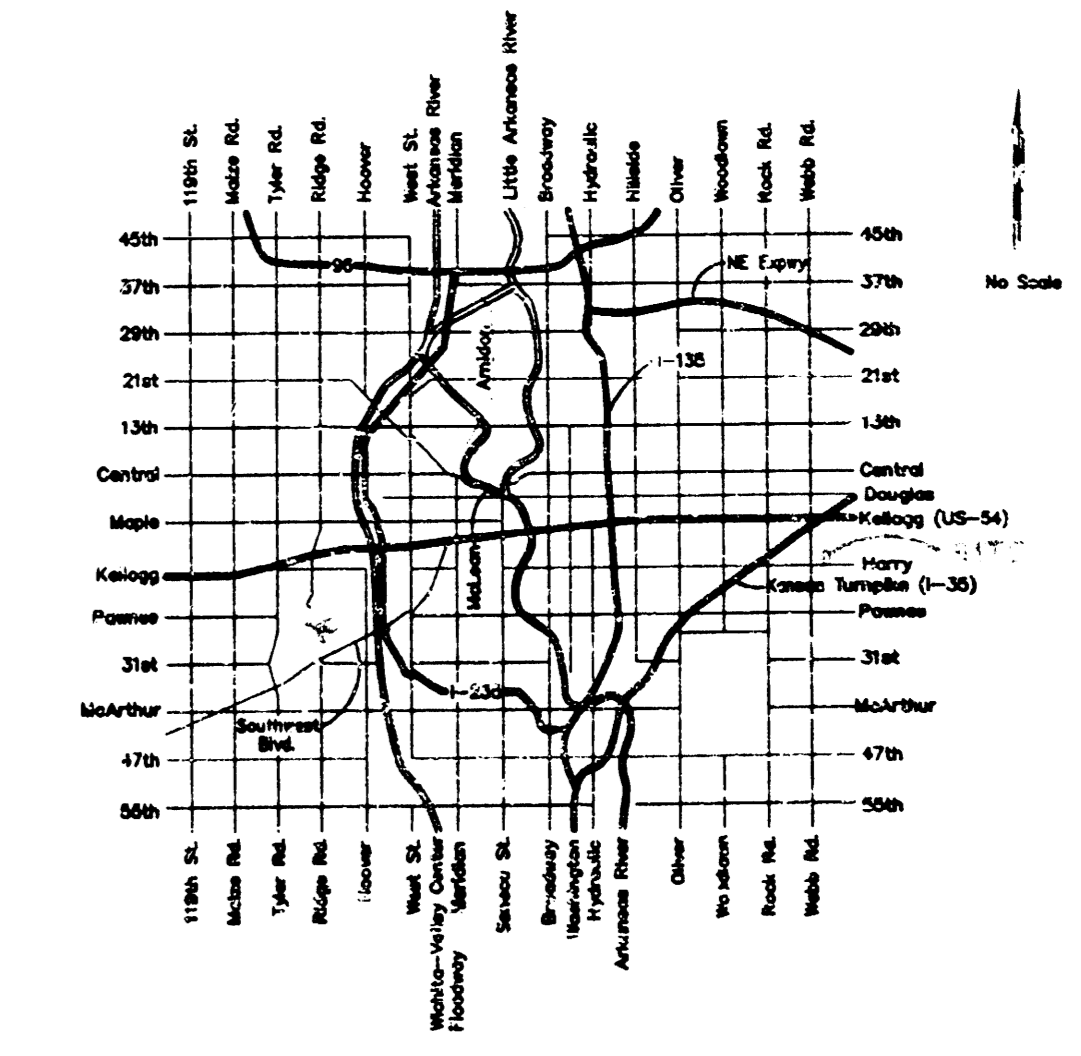


APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA
Storm Sewer VRH 10/20/97

NOTE TO CONTRACTORS
Inspection and testing for this project is 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. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

BOOKED
5-1-98
MEG
D-389

Michael E. Lindebak
13144
10/20/97



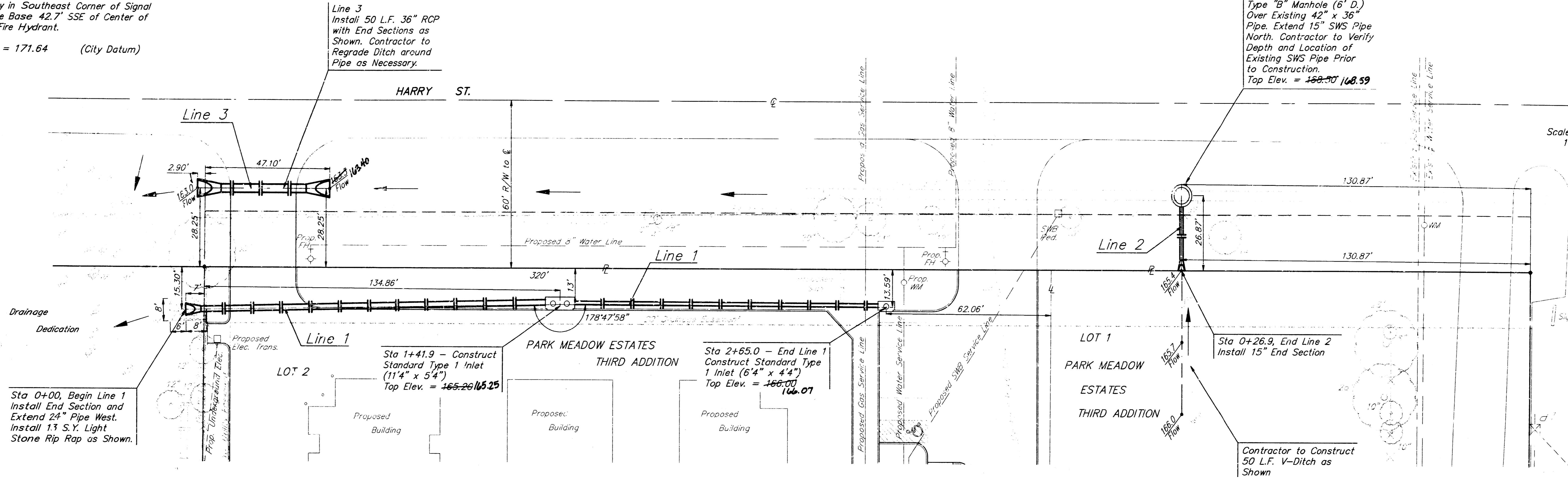
PROJECT INSPECTED BY BAUGHMAN COMPANY P.A.
PROJECT 210198 - BAUGHMAN COMPANY P.A. - TX

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
315-262-7271 • 315 ELUS • WICHITA, KANSAS 67211

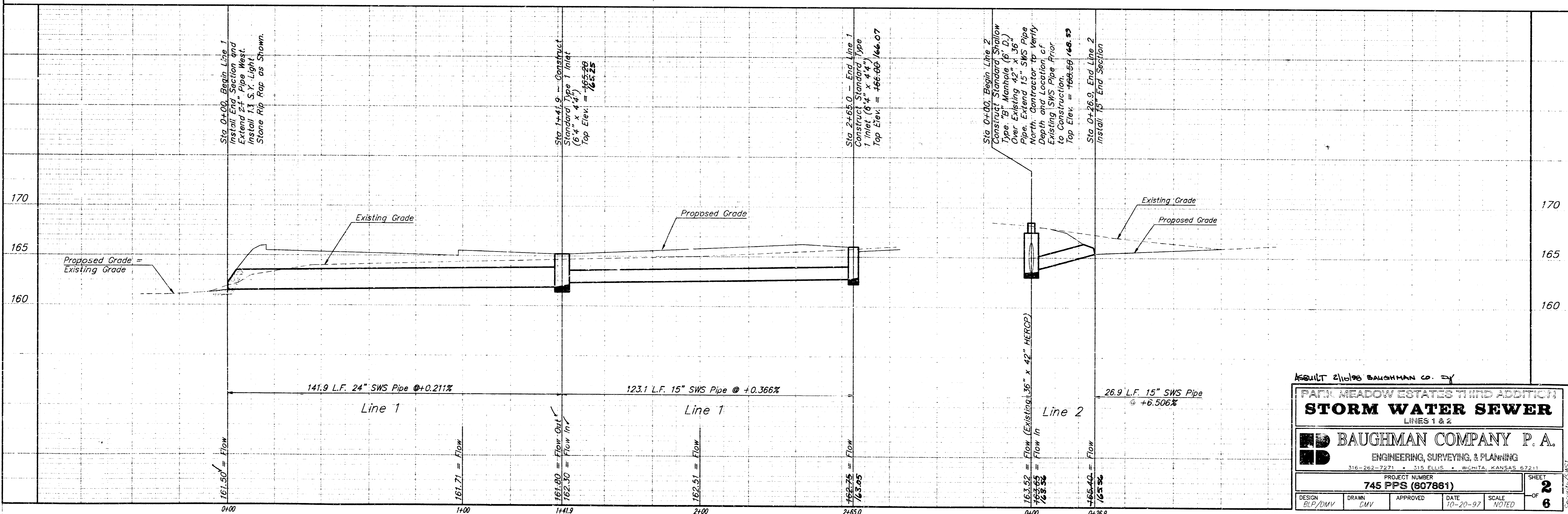
Benchmark:

City of Wichita Benchmark at Webb Road and Harry in Southeast Corner of Signal Light Pole Base 42.7' SSE of Center of Existing Fire Hydrant.

Elevation = 171.64 (City Datum)



Scale: 1" = 20' Vertical
1" = 5' Horizontal
● = Iron



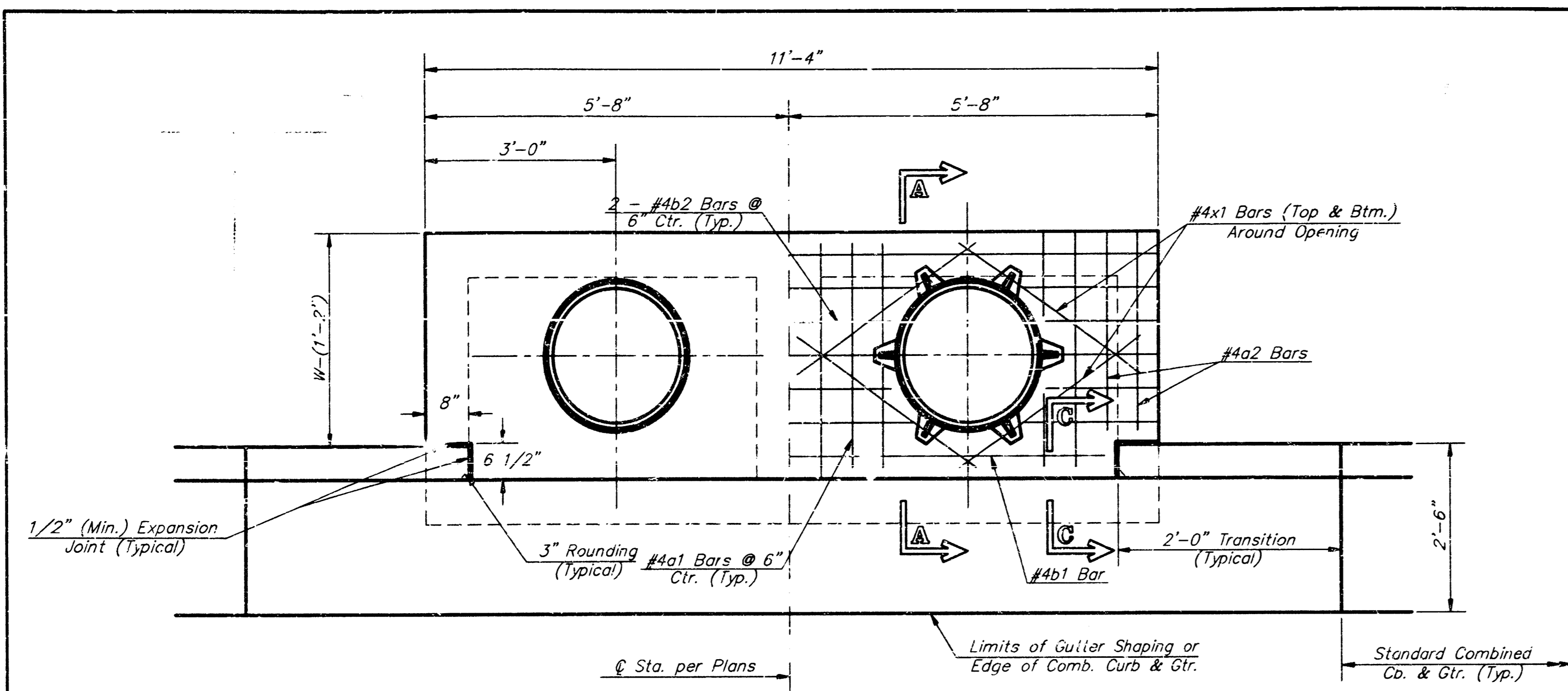
RESULT 2/16/08 BAUGHMAN CO. P.A.

**PARK MEADOW ESTATES THIRD ADDITION
STORM WATER SEWER
LINES 1 & 2**

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

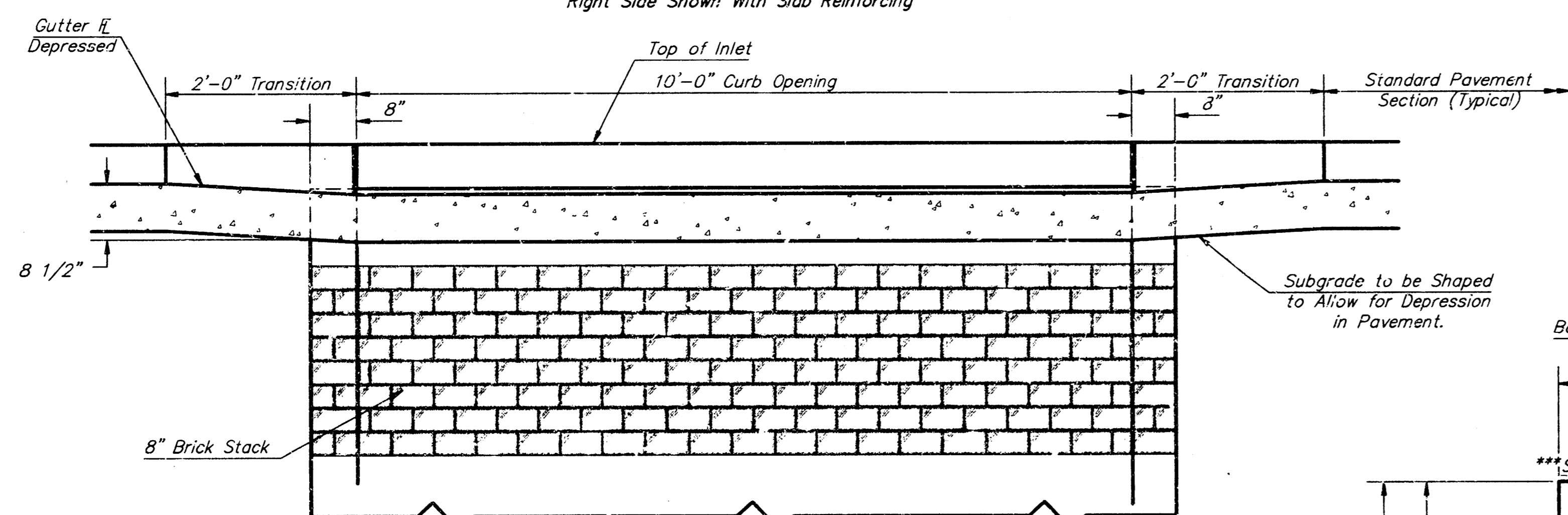
PROJECT NUMBER: **745 PPS (607861)**

DESIGN: BLP/DMV	DRAWN: DMV	APPROVED:	DATE: 10-20-07	SCALE: NOTED	SHEET: 2 OF 6
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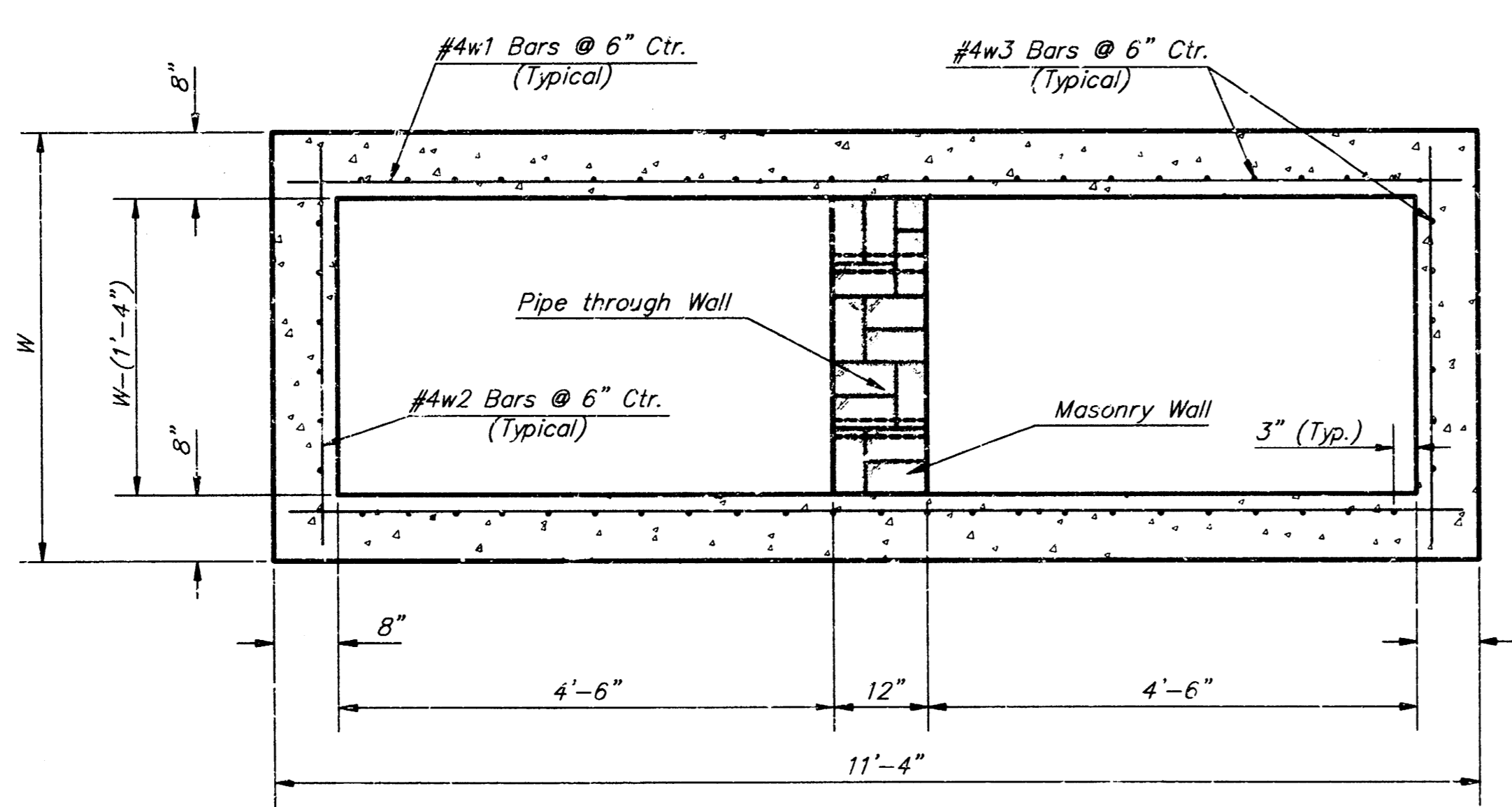


PLAN

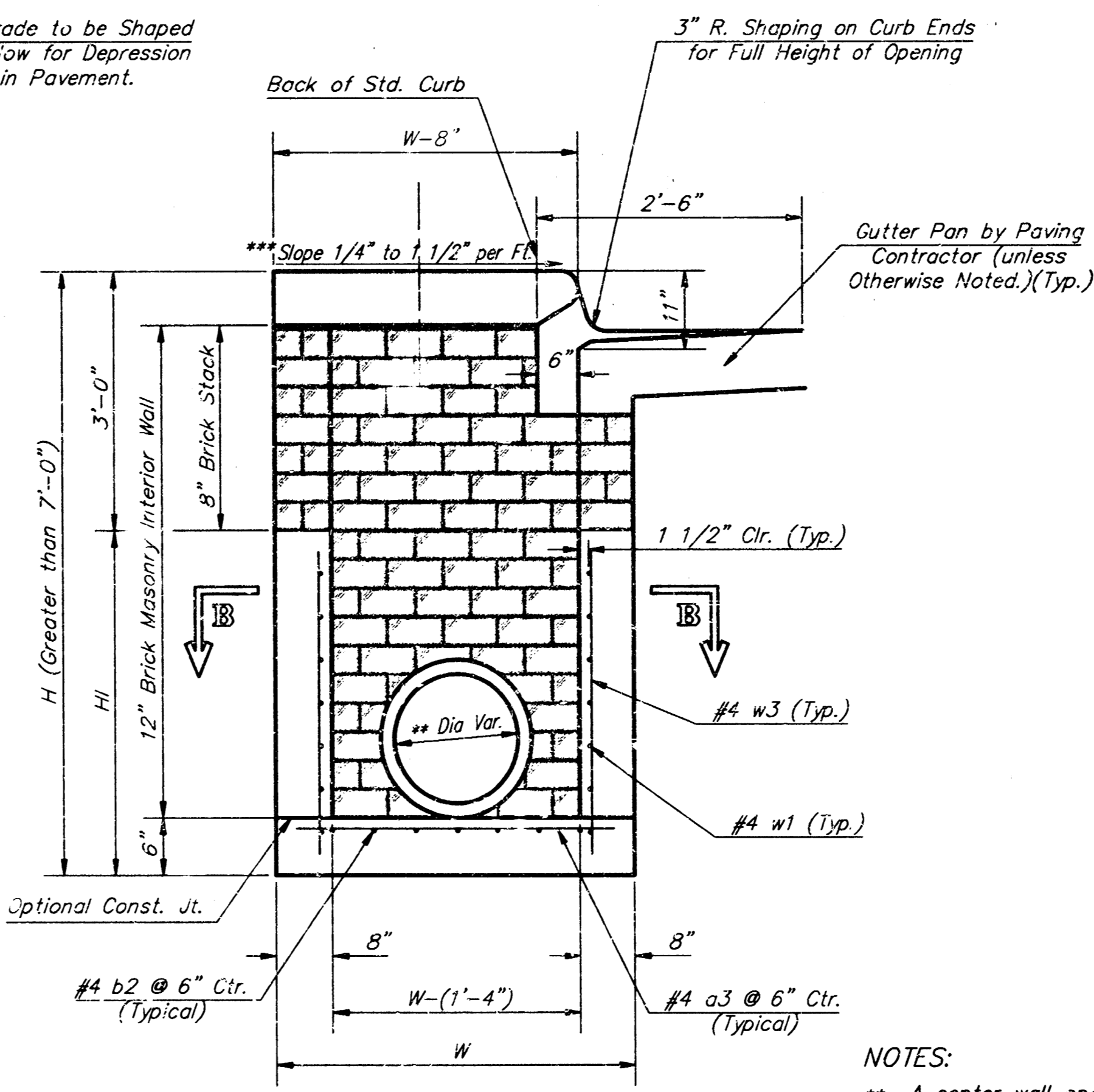
*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



ELEVATION

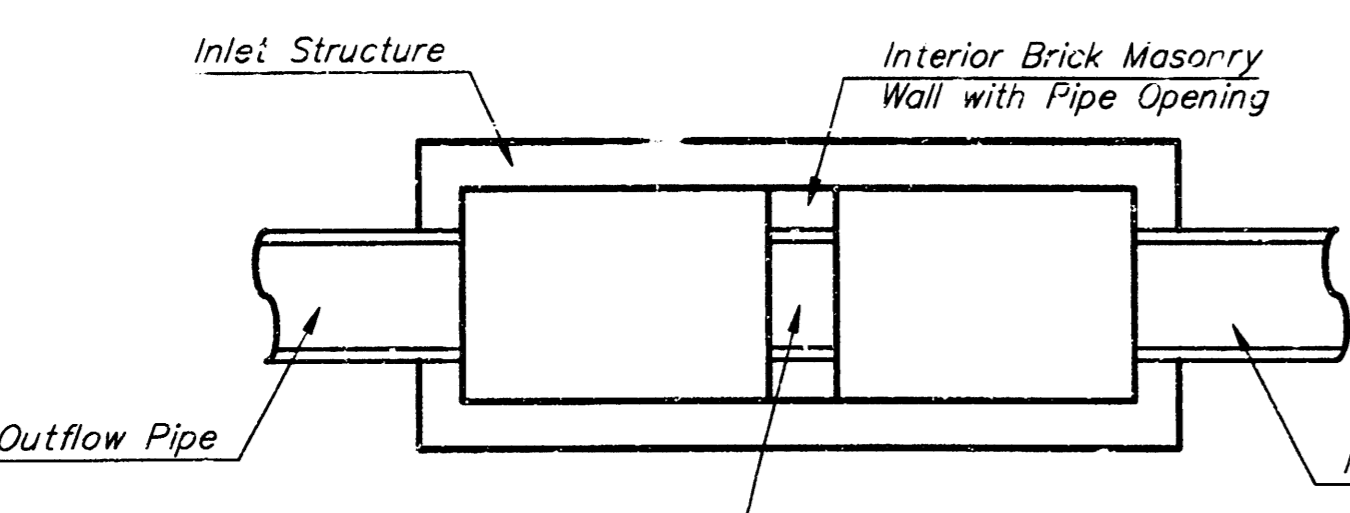


SECTION B-B



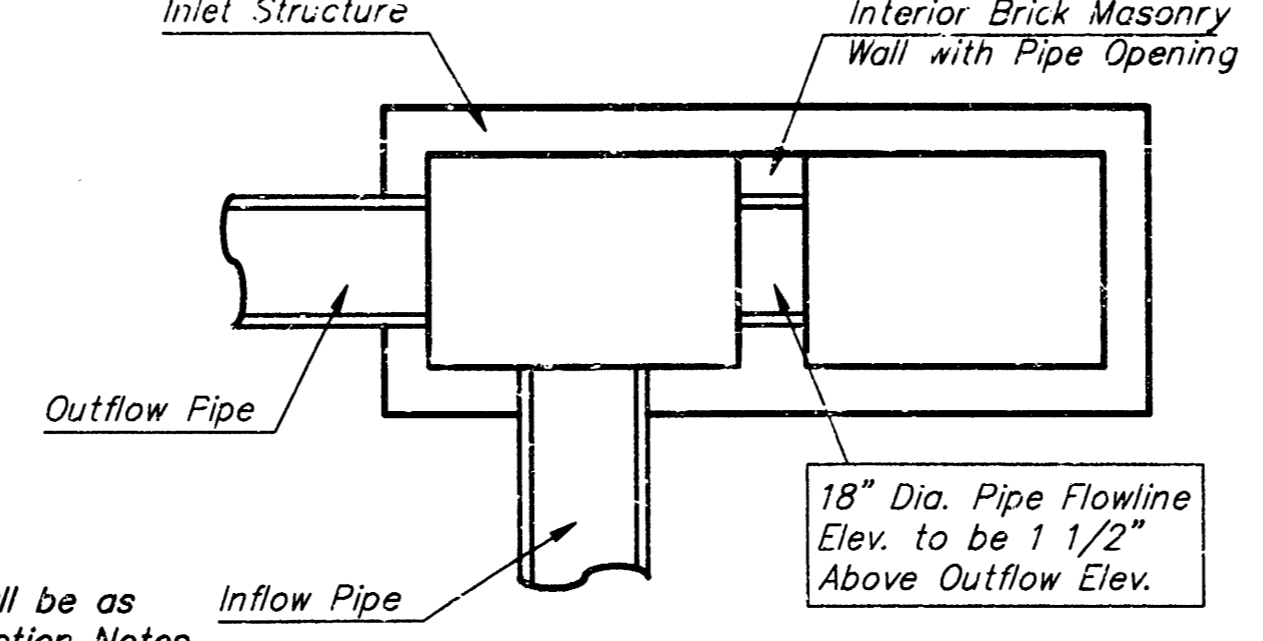
TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)

NOTES:
 ** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II below.
 *** Slope of inlet tops to match sidewalk of parking slopes within limits indicated



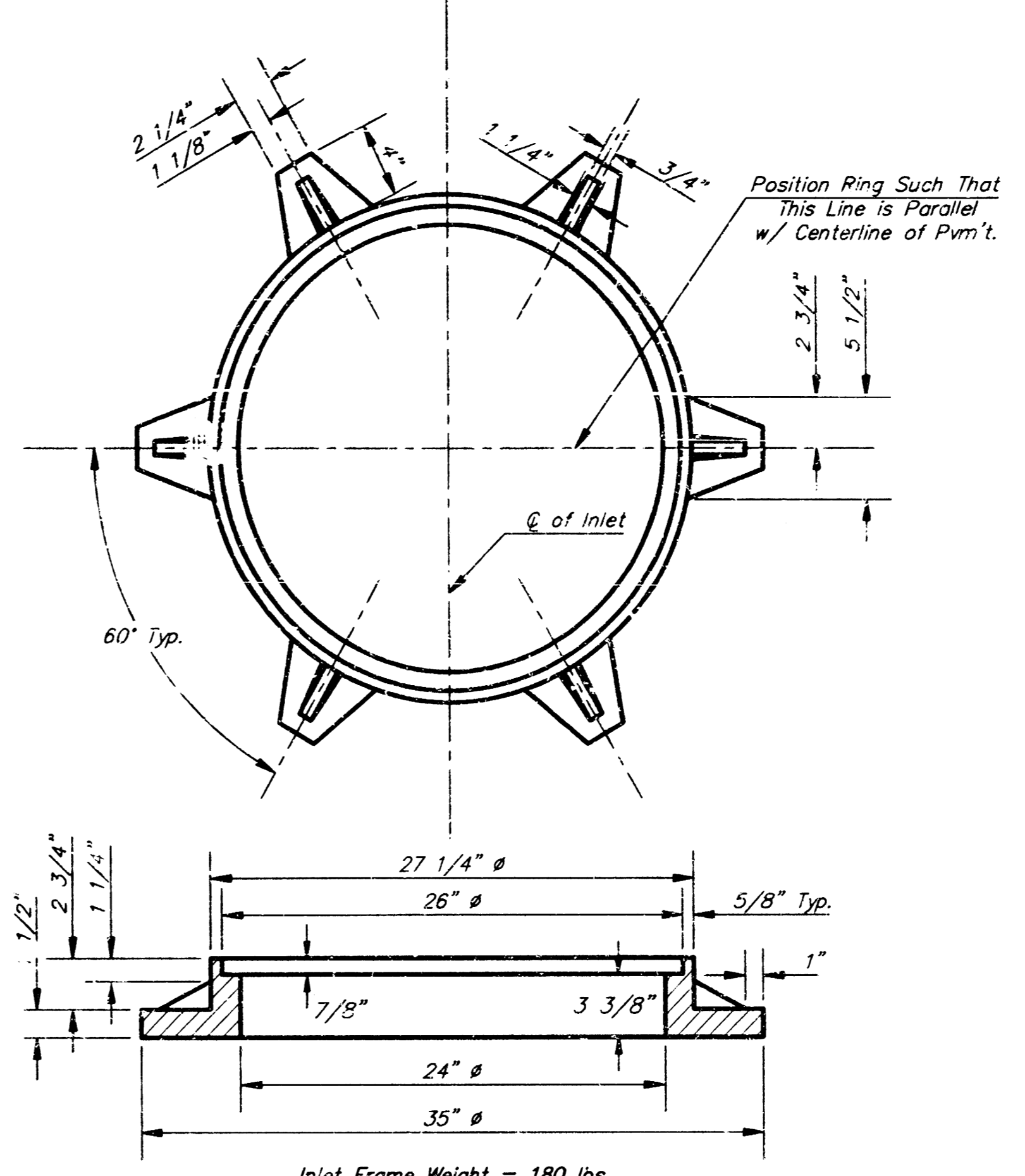
CASE I

Pipe Size to be the Same as Outlet Pipe Size. Flowline Elev. to be Average of Lowest Inflow Pipe Elev. and Outflow Pipe Elev.



CASE II

NOTE:
 Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



MANHOLE RING AND COVER

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

PRECAST 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"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"

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
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	52	2'-0"	52	2'-0"	60	2'-0"	64	2'-0"	68	2'-0"

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 11'-4" x 7 1/2"	21" & SMALLER	0.83±
5'-4"	4'-8" x 11'-4" x 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" x 11'-4" x 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" & 66"	1.87±

BENDING DIAGRAM

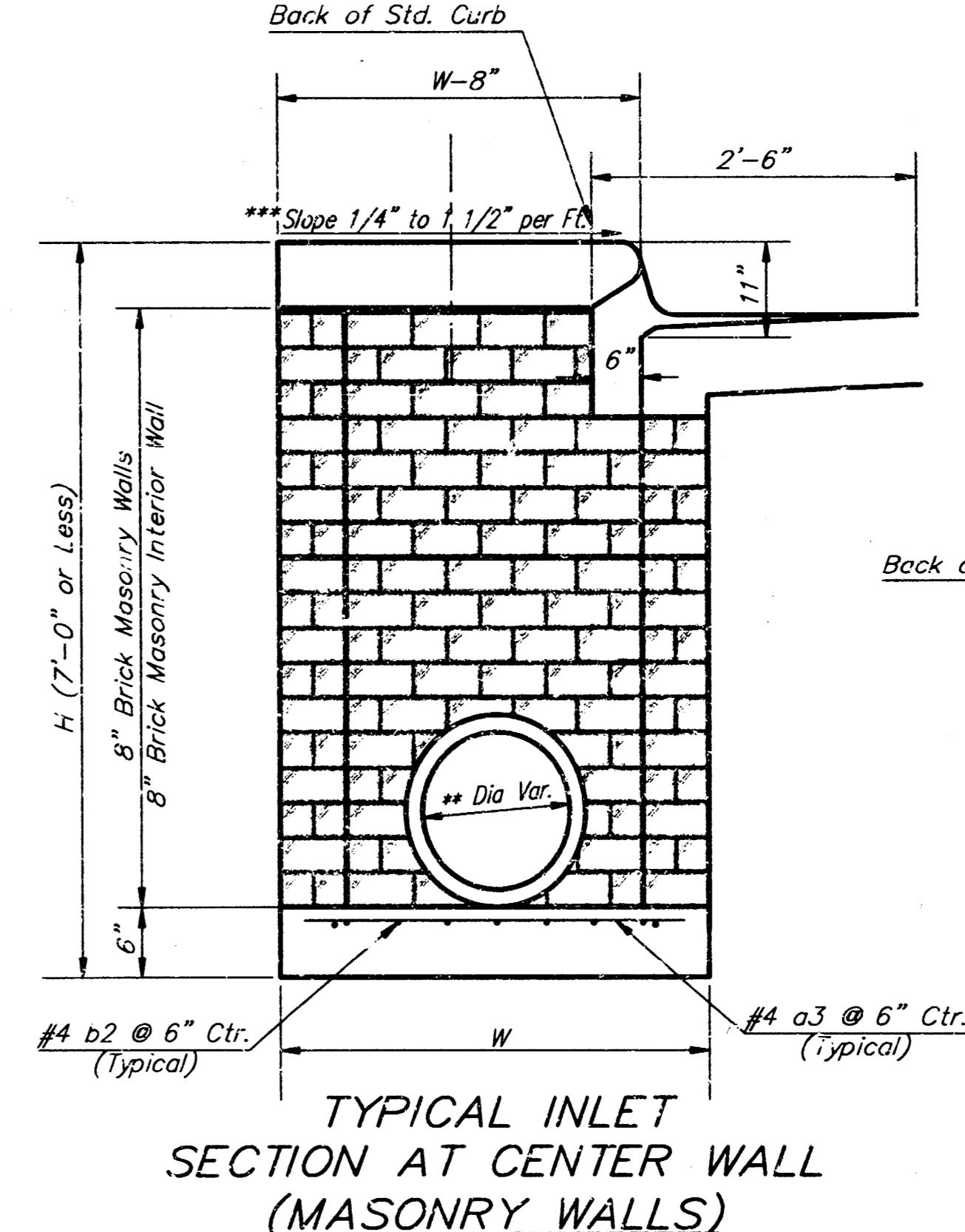
GENERAL NOTES:

Concrete shall be C.O.W. standard paving mix. All exposed edges shall be finished with an edging tool. Reinforcing bars shall be field bent or cut to clear pipes and inlet rings. All bars are #4 bars @ 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 outlet pipe(s). The contractor will be required to construct 8" brick masonry walls between the inlet base and top on this inlet when H=7'-0" or less and W=5'-4" 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.

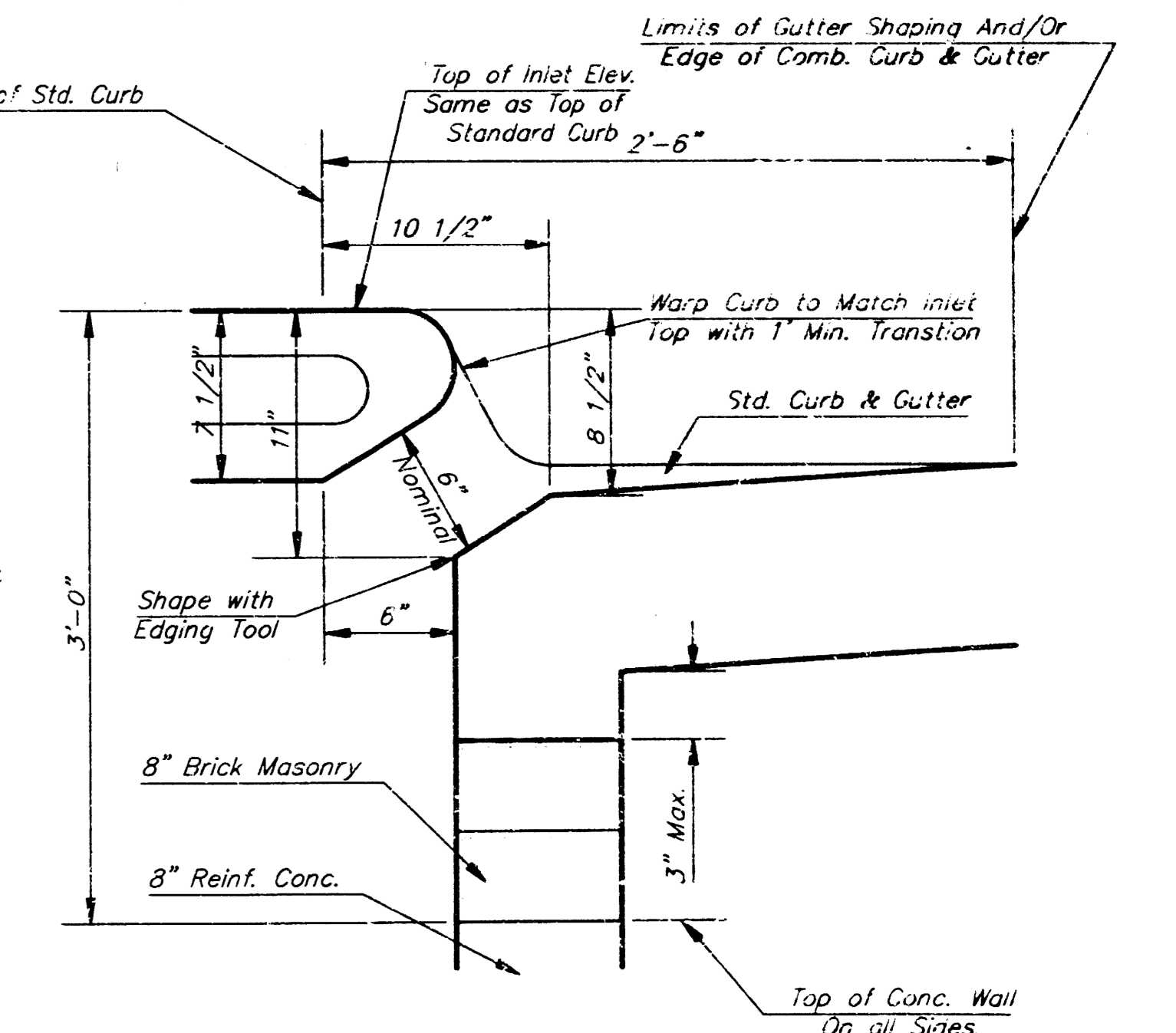
Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

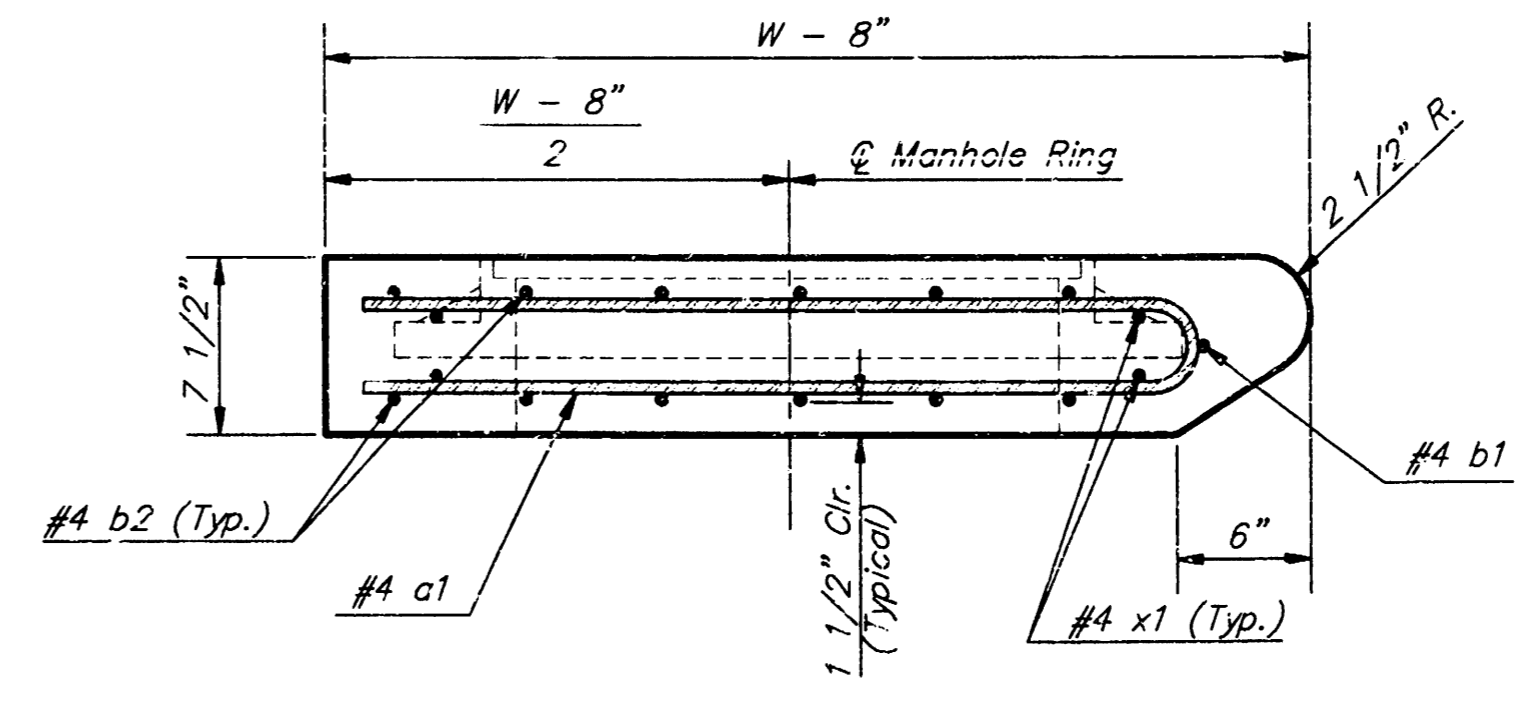
This detail is identical to the standard detail drawing except that the gutter transition length is increased from 2'-0" to 3'-6".



TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)



SECTION C-C



SECTION A-A

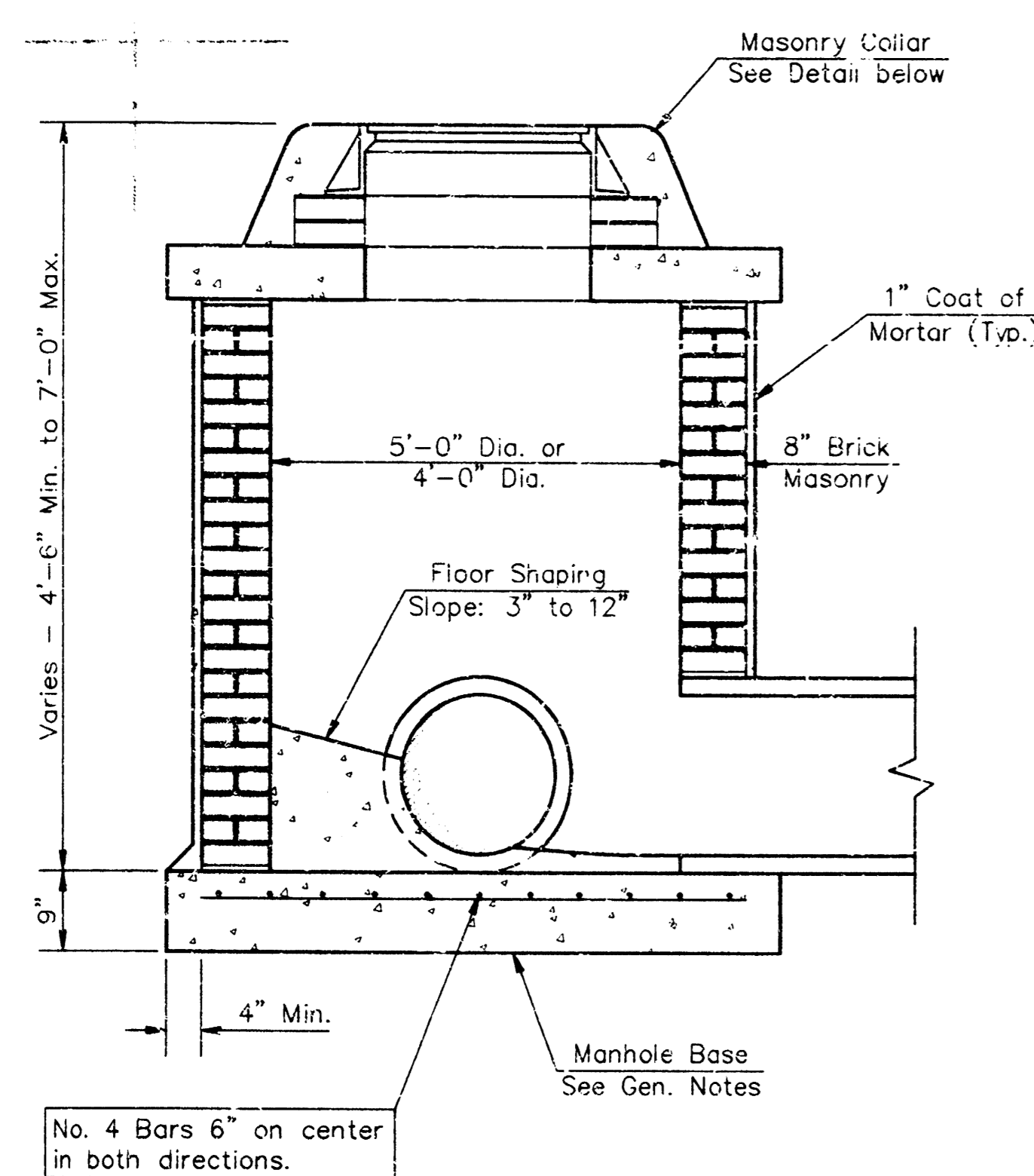
Revised - Feb. 16, 1999

CITY OF WICHITA STANDARD TYPE I CURB INLET DETAILS
 INLET OPENING = 5' x 10'-0"

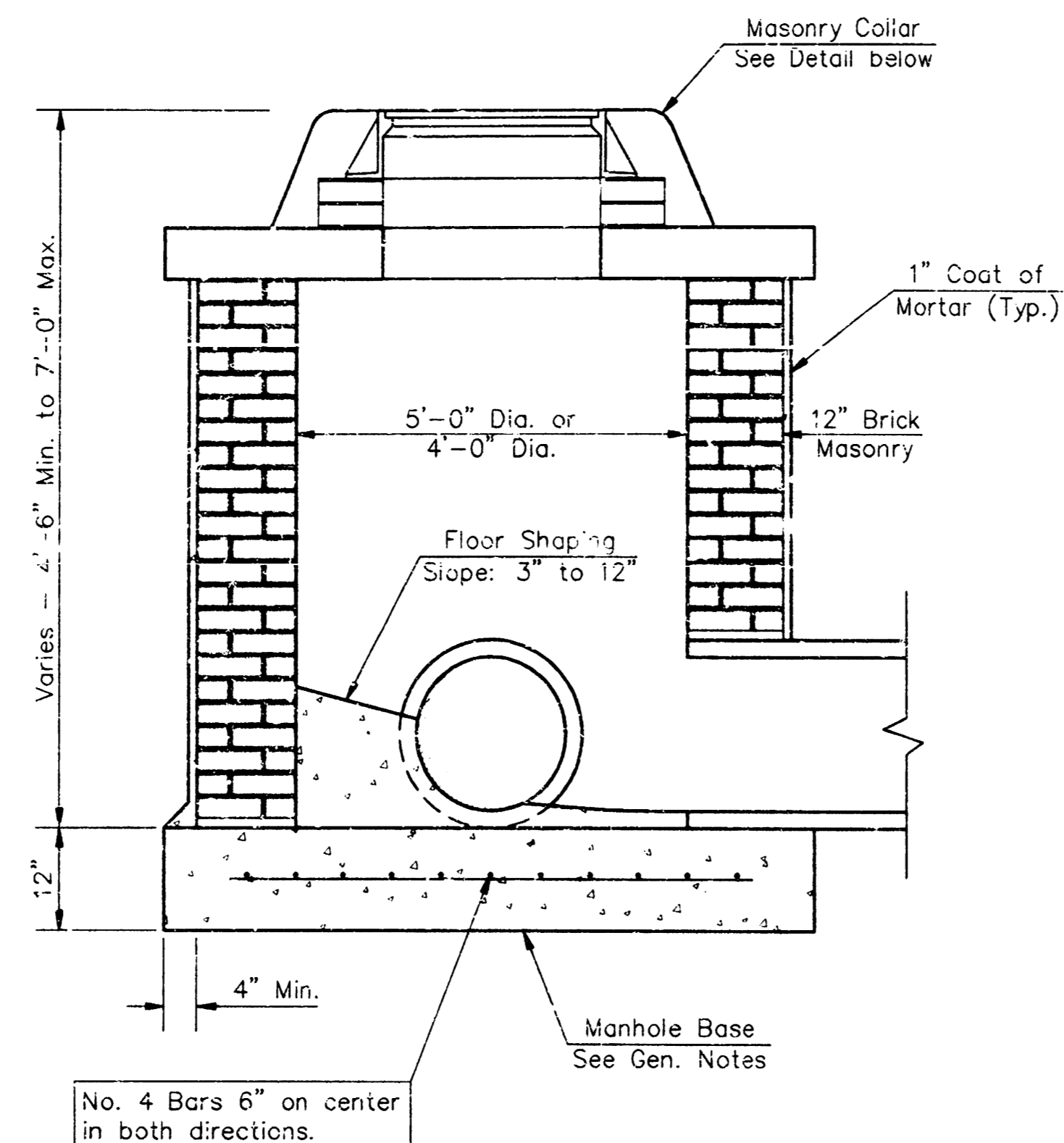
BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-2231 • 1000 S. BELL • WICHITA, KANSAS 67211

PROJECT NUMBER: **745 PPS (607861)**

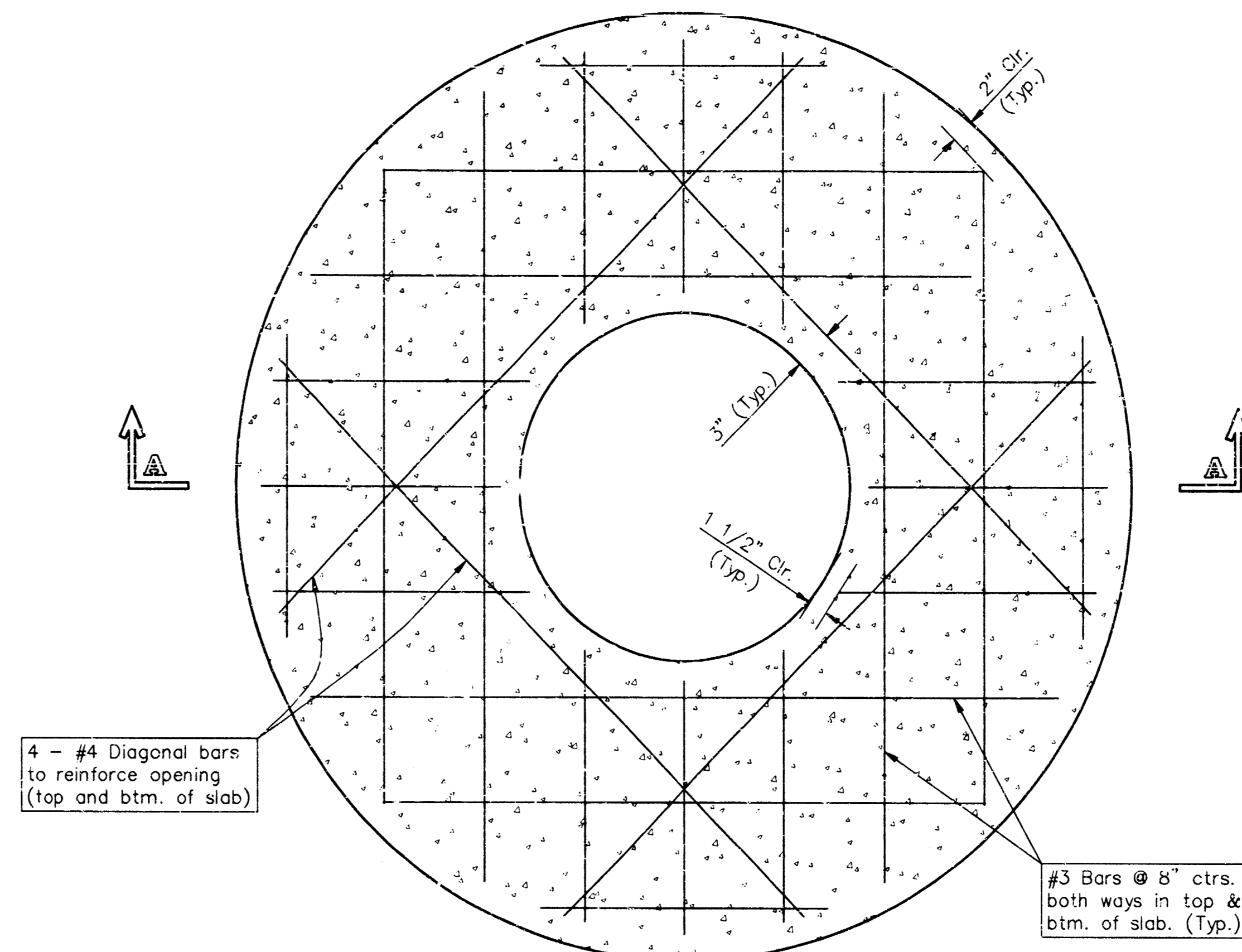
DESIGN: C.O.W. DRAWN: STAFF APPROVED: DATE: SCALE: 1"=10'-0" SHEET: **4** OF **6**



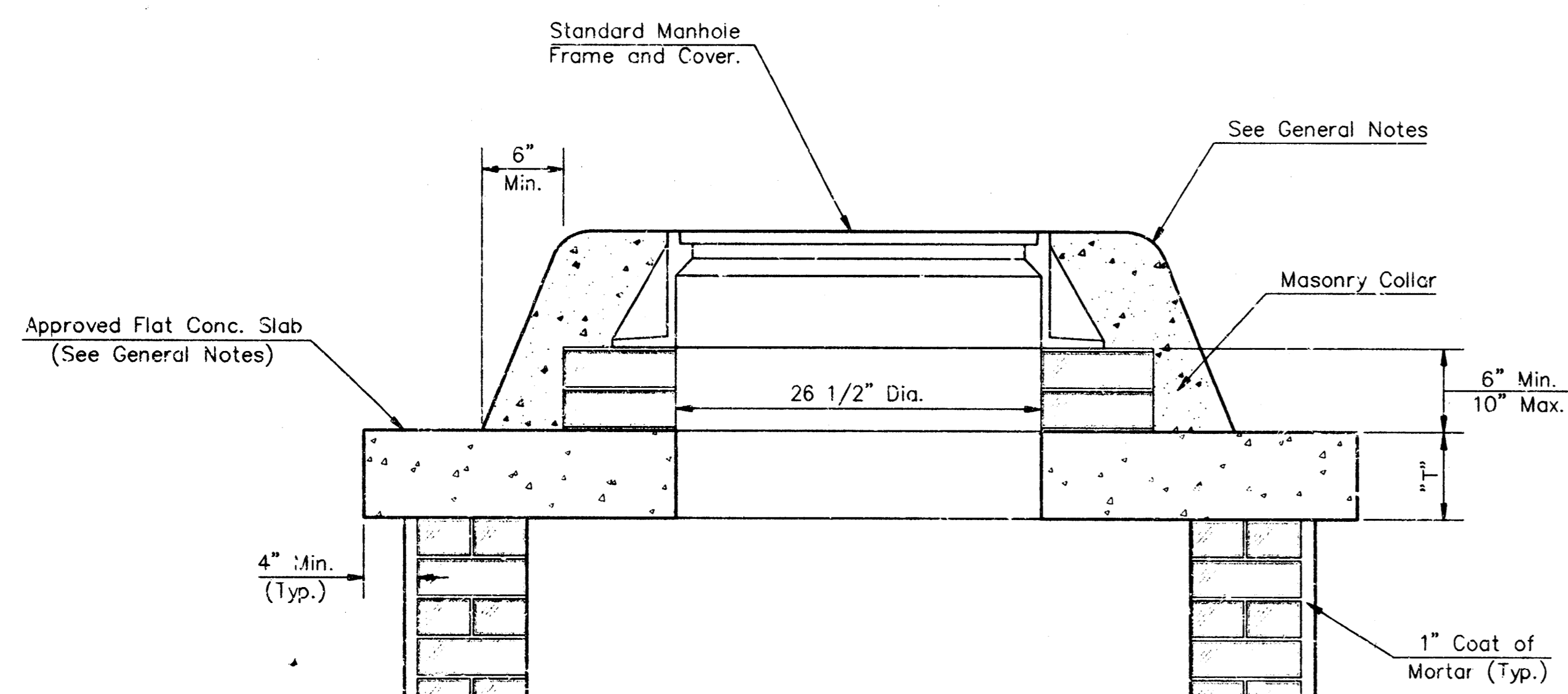
SHALLOW TYPE "A" MANHOLE



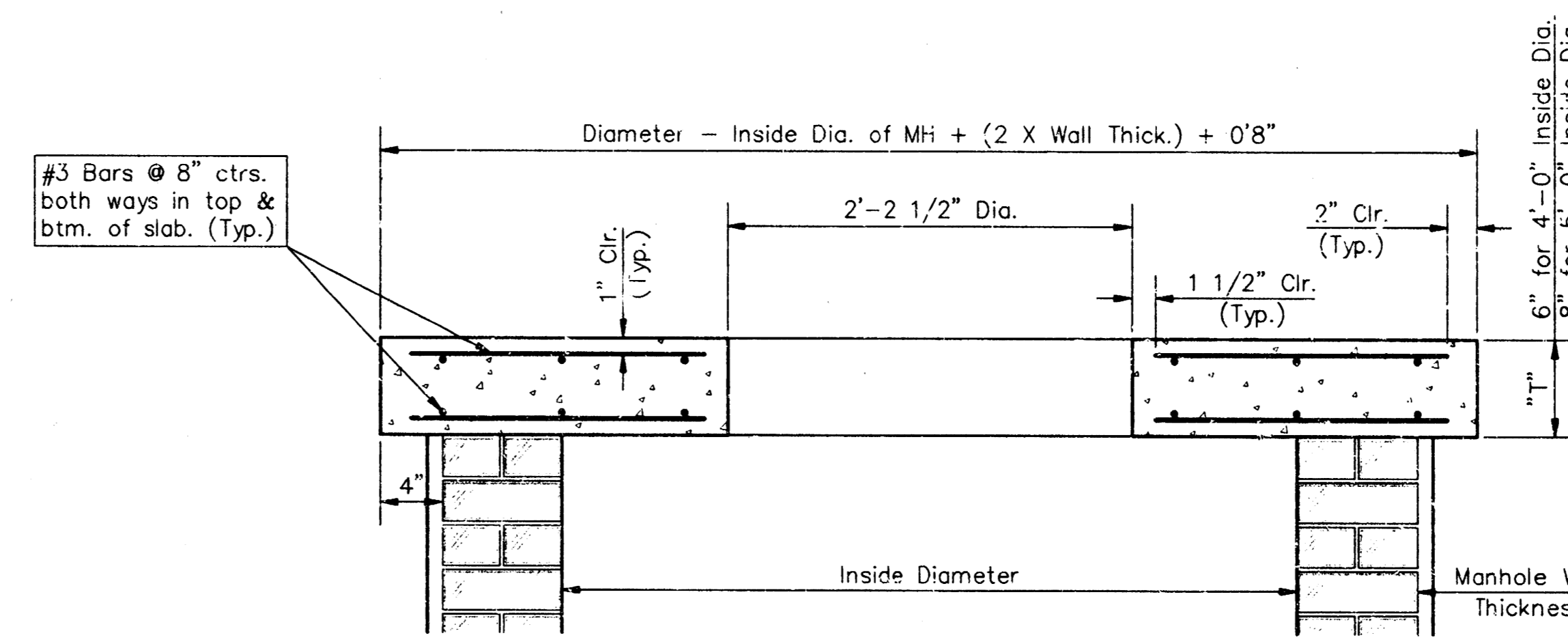
SHALLOW TYPE "B" MANHOLE



PLAN

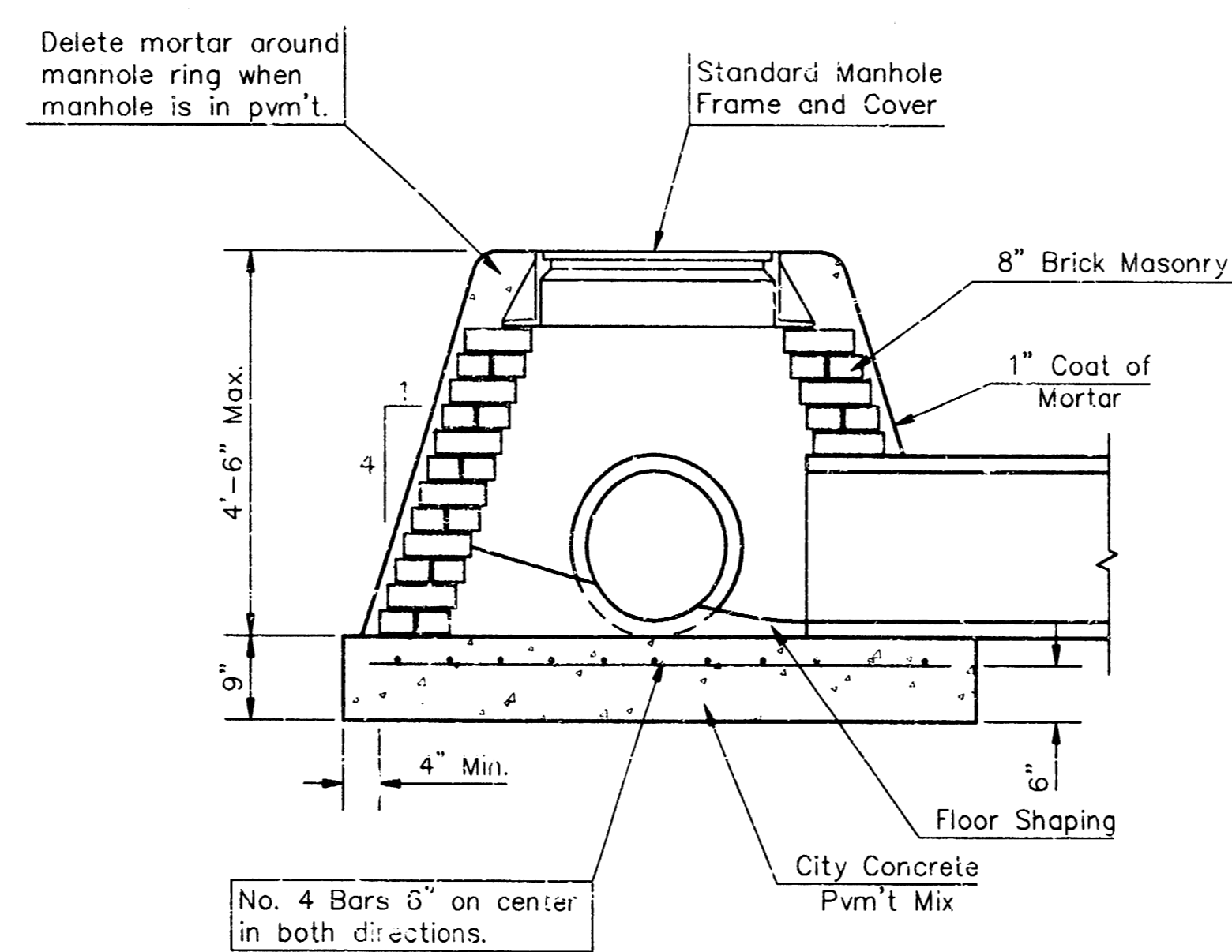


MASONRY COLLAR DETAIL

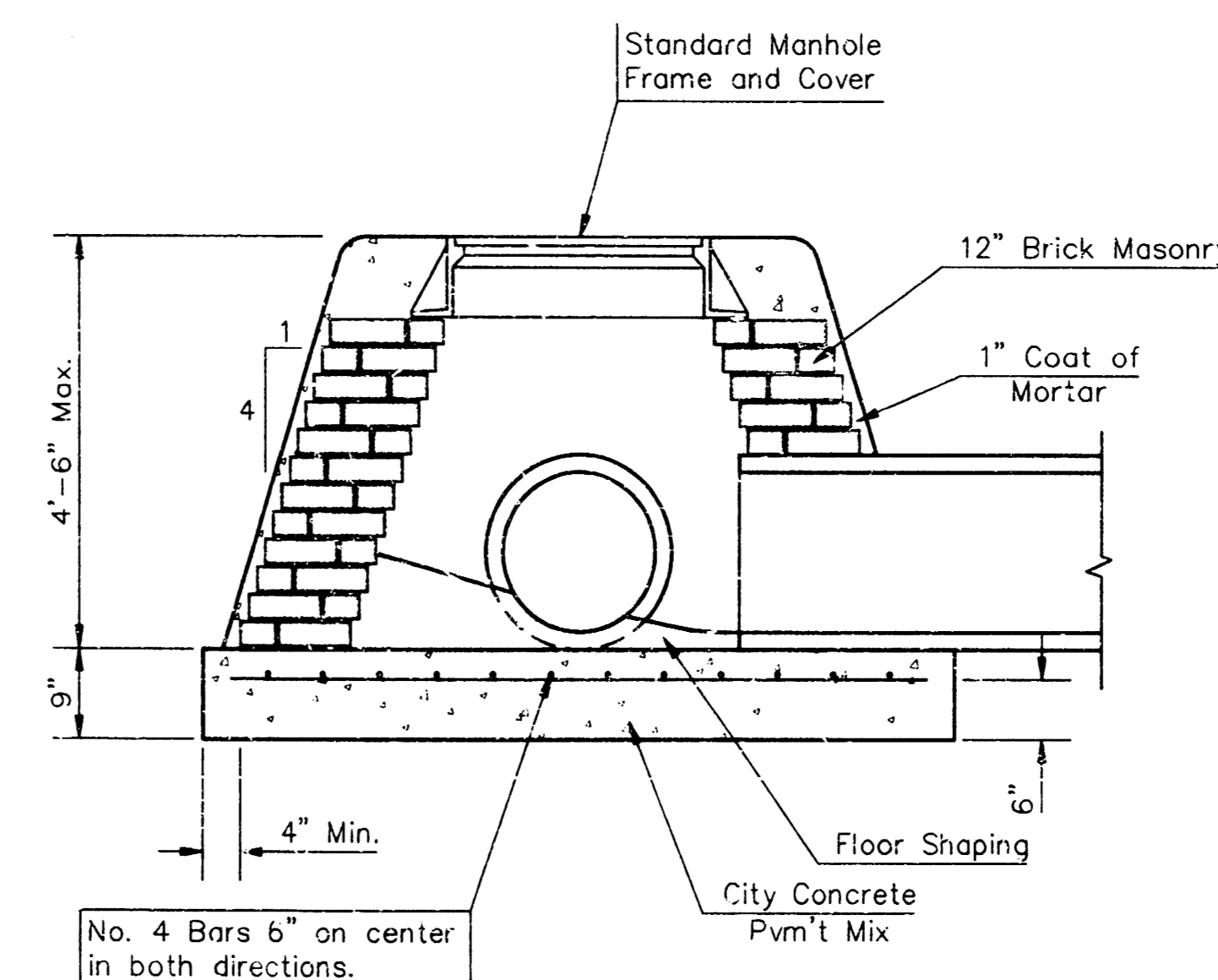


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

GENERAL NOTES

- 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. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. 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.
- Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 5" 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.
- 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 neat 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.
- 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.
- Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
- The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
- Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
- All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

CITY OF WICHITA, KANSAS
Std. Manhole Detail
 TYPE "A" AND TYPE "B"

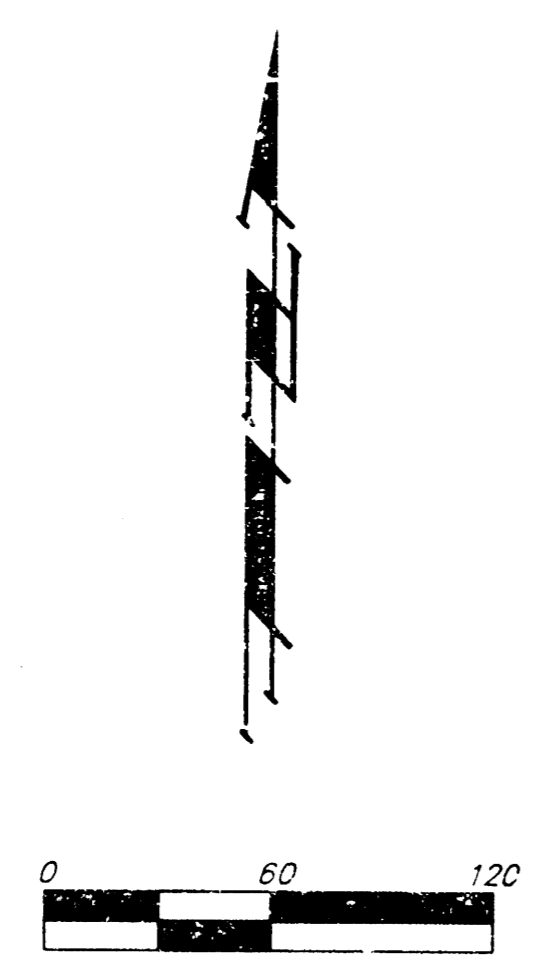
BAUGHMAN COMPANY P. A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-7271 • 315 E. LUSK • WICHITA, KANSAS 67211

PROJECT NUMBER
745 PPS (607861) SHEET **5**
 DESIGN: C.O.W. DRAWN: Staff APPROVED: DATE: SCALE: N/A=1"=6'

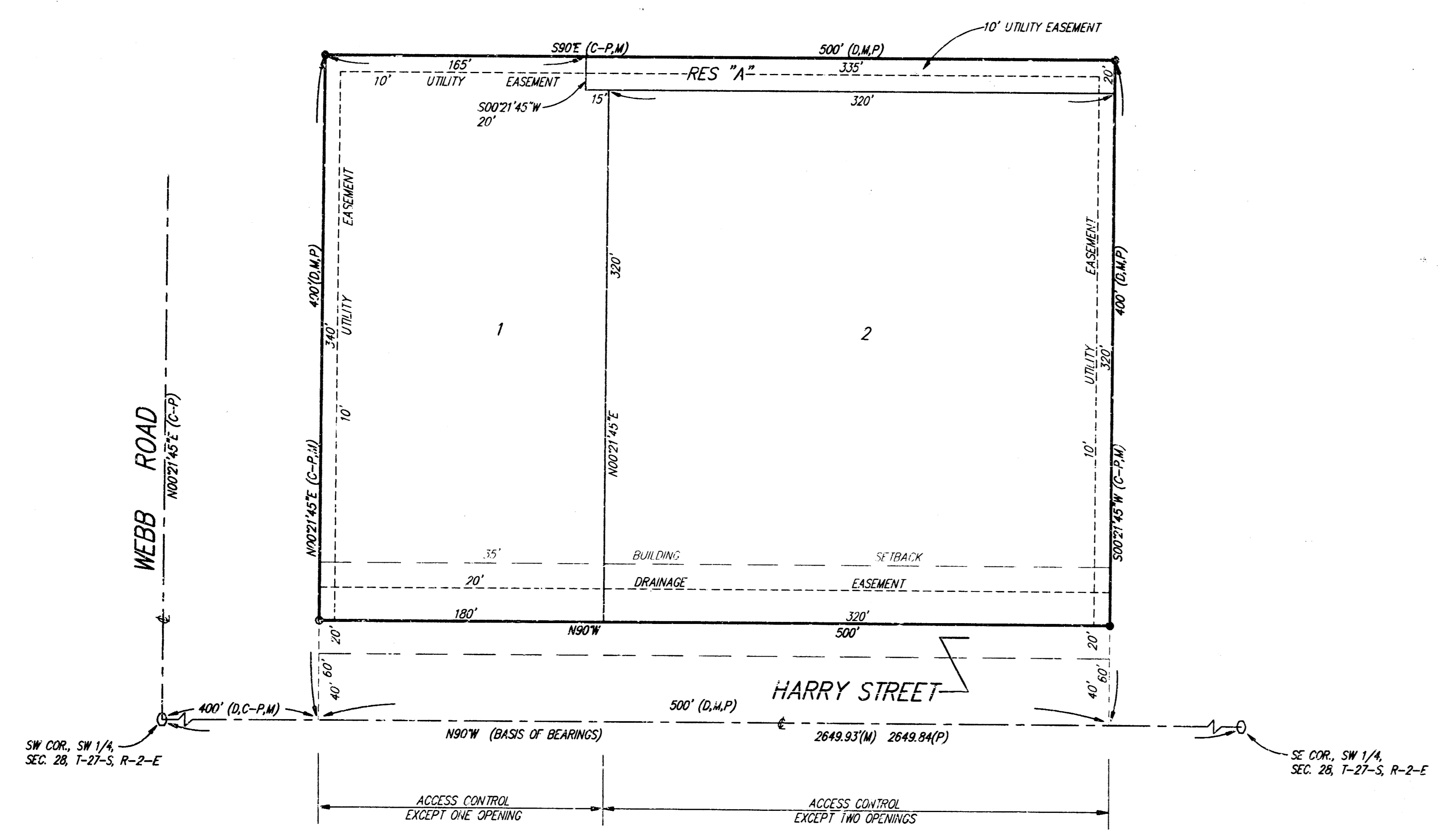
PARK MEADOW ESTATES THIRD ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

012512



LEGEND:
 (C-P) = CALCULATED PER PLATTED INFORMATION
 (D) = DESCRIBED
 (M) = MEASURED
 (P) = PLATTED
 ● = #4 REBAR 1/4" BAUGHMAN CAP(SET)
 ○ = #4 REBAR (FOUND)
 ○ = THIMBLE (FOUND)



State of Kansas) SS
 Sedgwick County) We, Baughman Company, P.A. Surveyors in
 aforesaid County and State do hereby certify that we have surveyed and
 platted "PARK MEADOW ESTATES THIRD ADDITION", Wichita, Sedgwick County,
 Kansas, and that the accompanying plat is a true and correct exhibit of the
 property surveyed, described as follows:

Commencing at the Southwest corner of the Southwest Quarter
 of Section 28, Township 27 South, Range 2 East of the Sixth
 Principal Meridian, Sedgwick County, Kansas; thence East along
 the South line of said Southwest Quarter, 400 feet for a point
 of beginning; thence North parallel with the West line of said
 Southwest Quarter, 400 feet; thence East parallel with the
 South line of said Southwest Quarter, 500 feet; thence South
 parallel with the West line of said Southwest Quarter, 400 feet
 to a point on the South line of said Southwest Quarter; thence
 West along the South line of said Southwest Quarter, 500 feet
 to the point of beginning.

Existing public easements and dedications being vacated
 by virtue of K.S.A. 12-512(b).
 Baughman Company, P.A.

 Michael G. Conroy, Surveyor

This plat of "PARK MEADOW ESTATES THIRD ADDITION",
 Wichita, Sedgwick County, Kansas has been submitted to and approved by
 the Wichita-Sedgwick County Metropolitan Area Planning Commission,
 Wichita, Kansas.
 Dated: _____ day of _____, 1997.
 Wichita-Sedgwick County Metropolitan Area Planning Commission

 John C. Frye, Chairman

 Marvin S. Krout, Secretary

This plat approved and all dedications shown
 hereon accepted by the City Council of the City of Wichita, Kansas,
 this _____ day of _____, 1997.

 Bob Knight, Mayor

 Pat Burnett, City Clerk

Know all men by these presents that we,
 the undersigned, have caused the land in the surveyors certificate to be
 platted into Lots and a Street to be known as "PARK MEADOW ESTATES
 THIRD ADDITION", Wichita, Sedgwick County, Kansas. The utility easements
 are hereby granted as indicated for the construction and maintenance of
 all public utilities. The drainage easement is hereby granted as indicated
 for drainage purposes. Reserve "A" is hereby reserved for a landscape buffer,
 open space, landscaping, berms, and utilities as confined to easement.
 Reserve "A" shall be owned and maintained by the owner of Lot 2. All abutters
 rights of access to or from Harry Street over and across the south line of
 Lots 1 and 2 are hereby granted to the City of Wichita, Kansas provided,
 however, that said Lot 1 shall have access to Harry Street at one location
 and said Lot 2 shall have access to Harry Street at two locations, all as
 shall be determined by the City Engineer for the City of Wichita, Kansas.

Entered on transfer record this _____ day
 of _____, 1997.

 James Alford, County Clerk

 Orlin E. Ard, Jr.

State of Kansas) SS
 Sedgwick County) This is to certify that this plat has been
 filed for record in the office of the Register of Deeds, this _____ day
 of _____, 1997, at _____ o'clock _____ M.; and is duly recorded.

 Larry Consolver, Register of Deeds

 Michael D. Hurtt, Deputy

State of Kansas) SS
 Sedgwick County) The foregoing instrument acknowledged before
 me, this _____ day of _____, 1997, by Orlin E. Ard Jr., a
 single person.

 My App't. Exp. _____ Notary Public