

Lat. 9 Main 13, Southwest Interceptor Sewer
 TO SERVE
Park Glen Addition - Phase II

Project Number
468 76 245 82245 000 000 001
 Index Code
741710

CITY OF WICHITA, KANSAS
 Michael E. Lindebak City Engineer

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
 K.P.L. Gas Service Company 263-2061
 Kansas Gas & Electric Company 263-7511
 Arka Gas Company 264-1141
 or 942-8350
 264-8161
 Southwestern Bell Telephone Company 1-571-2611
 City of Wichita Water Department 268-4908
 City of Wichita Sewer Maintenance 288-4071

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.

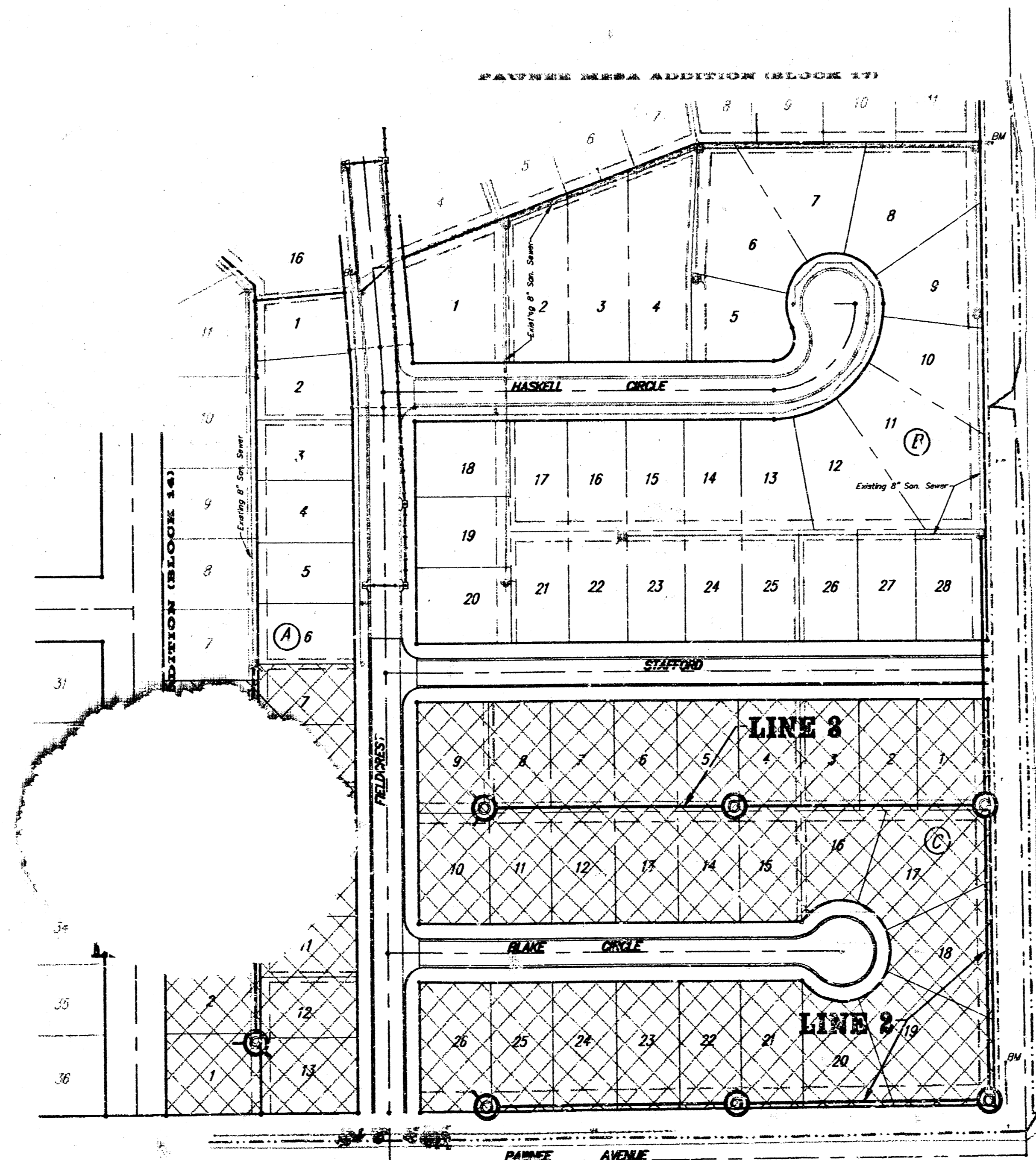
3. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

4. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

5. 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.

6. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plan. All costs for grading shall be paid as lump sum for easement grading.

7. Traffic shall not be affected by construction on this project.



Project Area

Benchmarks:

R.R. Spike in Power Pole (N.W. Side)
 Located 93' N. and 20' W. of the
 C's of Pawnee Avenue and Lark Lane.
 Elevation = 144.71 (City Datum)

R.R. Spike in Power Pole (S.W. Side)
 Located 13' E. of N.E. Corner of Lot 8,
 Block B, Park Glen Addition.
 Elevation = 146.41 (City Datum)

"□" Cut on Top of Curb Located
 20' N. and 15' E. of Lot 1, Block A,
 Park Glen Addition.
 Elevation = 143.02 (City Datum)

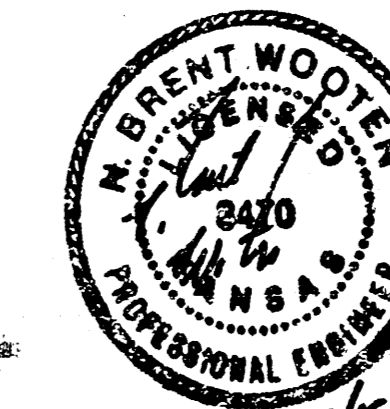
Index of Sheets

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Plan/Profile - Line 2	4
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Shallow Manhole Detail	6
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Benefit District

Booked
 3/18
 From 12 Reels
 1-25-94

SCALE: 1" = 150'



BENCHMARKS

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"□" Cut on Top of Curb Located
20' N. and 15' E. of Lot 1, Block A,
Park Glen Addition.
Elevation = 143.02 (City Datum)

CAUTION: Exist. SWB
Lines in the area.

CAUTION: Exist. 12" Water
Line parallel to San. Sewer.

Note: Cost of any adjustment
to exist. stub shall be incidental
to project cost.

Sta. 0+00 Line 2
Begin Construction of 8"
San. Sewer Line South from
exist. manhole and stub.
H3.70

Caution: Proposed 8"
Water Line Crossing.

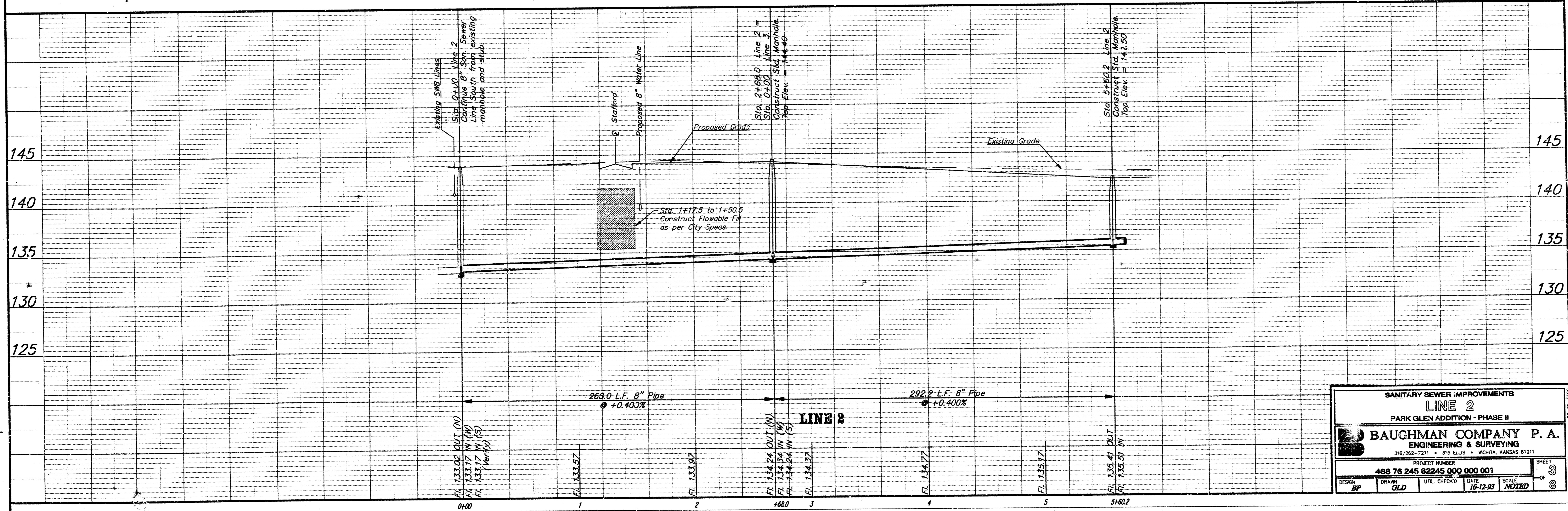
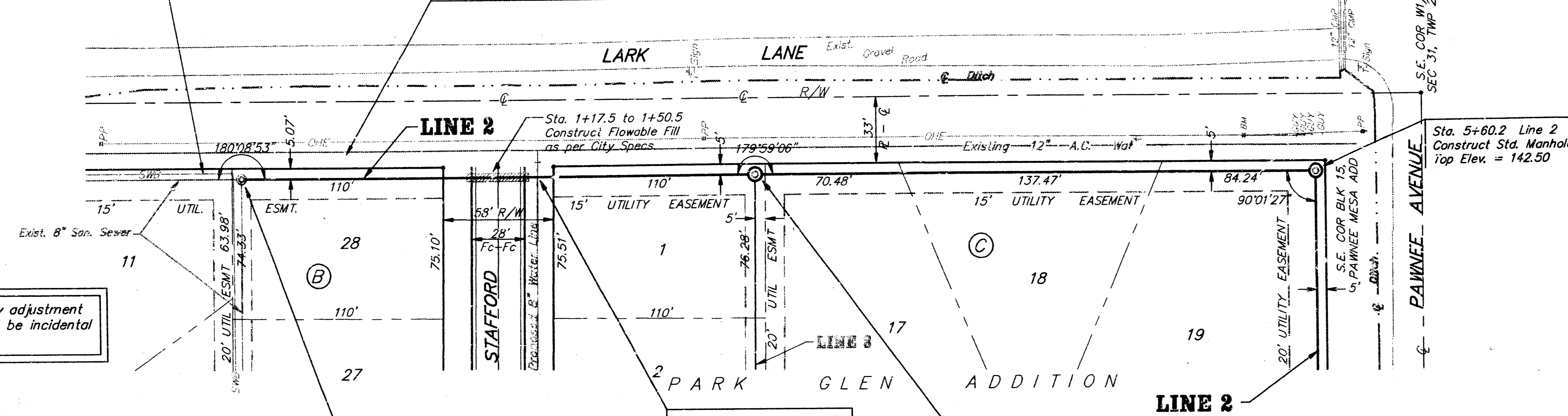
Sta. 2+68.0 Line 2 =
Sta. 0+00 Line 3.
Construct Std. Manhole.
Top Elev. = 144.40

SE. COR. W/2, SE/4,
SEC. 31, TWP. 27S,
R-1-W

Sta. 5+60.2 Line 2
Construct Std. Manhole.
Top Elev. = 142.50



SCALE:
1" = 40' Horiz.
1" = 5' Vert.
• = Iron



SANITARY SEWER IMPROVEMENTS			
LINE 2			
PARK GLEN ADDITION - PHASE II			
BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 375 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
488 76 245 82245 000 000 001			
DESIGN	DRAWN	DATE	SCALE
BP	GLD	16-12-93	NOTED
SHEET			OF
1			1

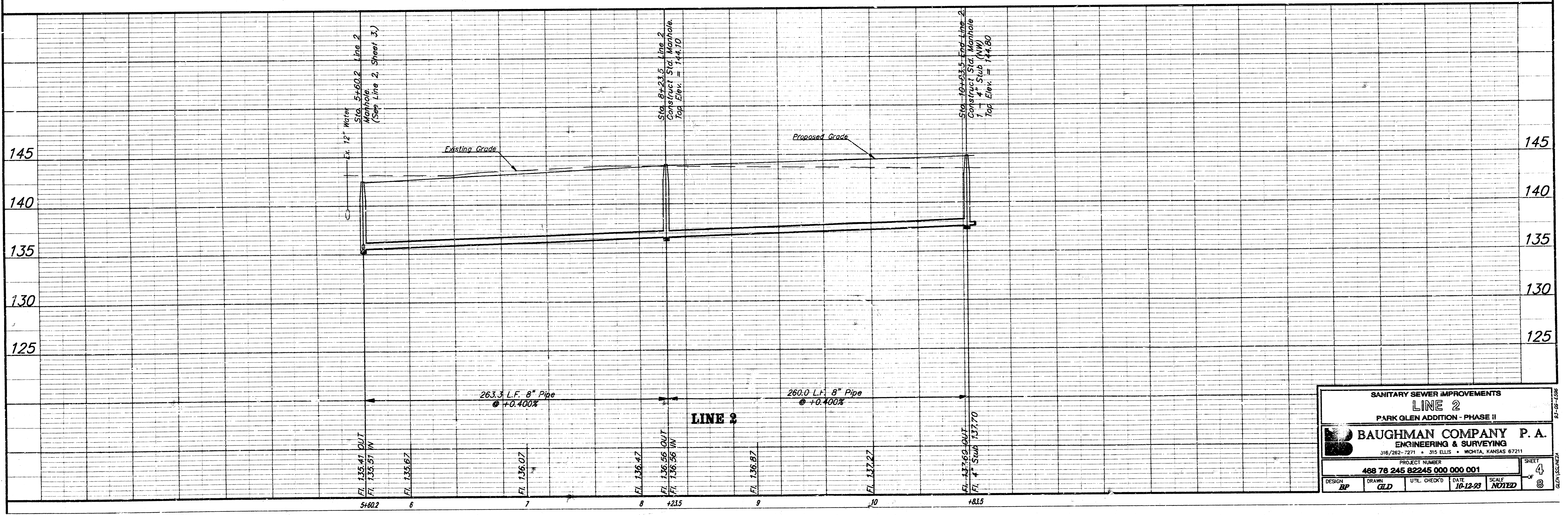
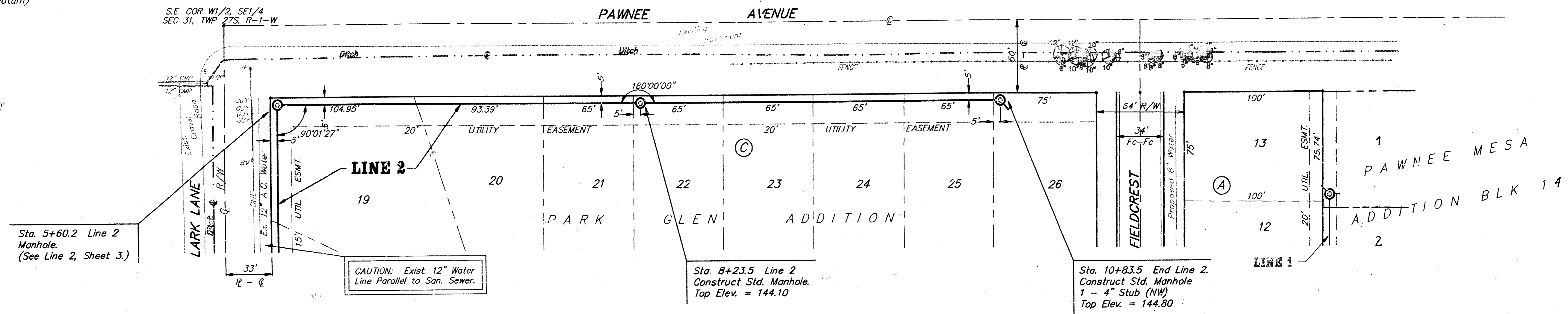
BENCHMARKS

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SCALE:
 1" = 40' Horiz.
 1" = 5' Vert.
 • = Iron



SANITARY SEWER IMPROVEMENTS
LINE 2
 PARK GLEN ADDITION - PHASE II

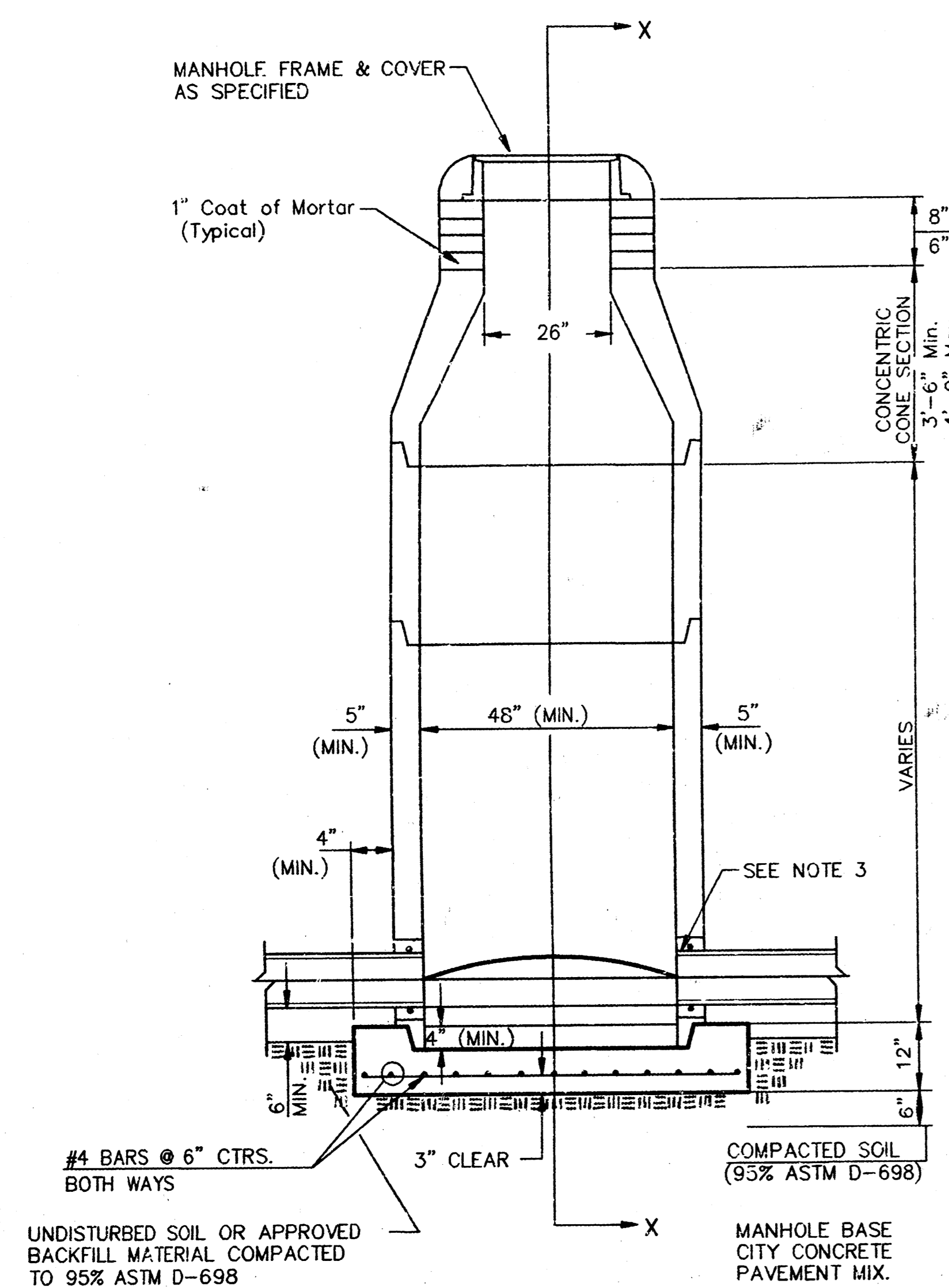
BAUGHMAN COMPANY P. A.
 ENGINEERING & SURVEYING
 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
468 76 245 82245 000 001

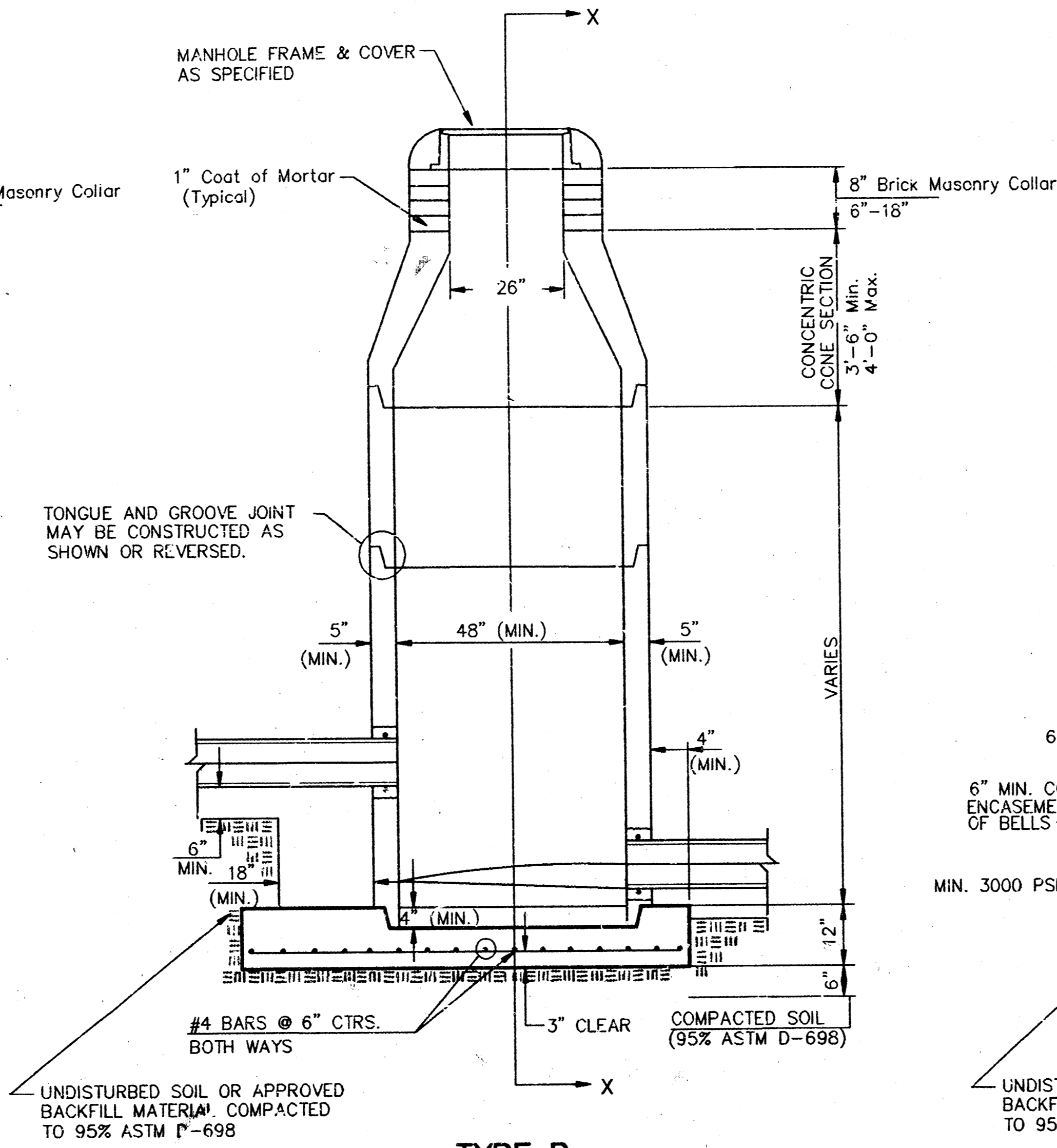
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SHEET 4 OF 8

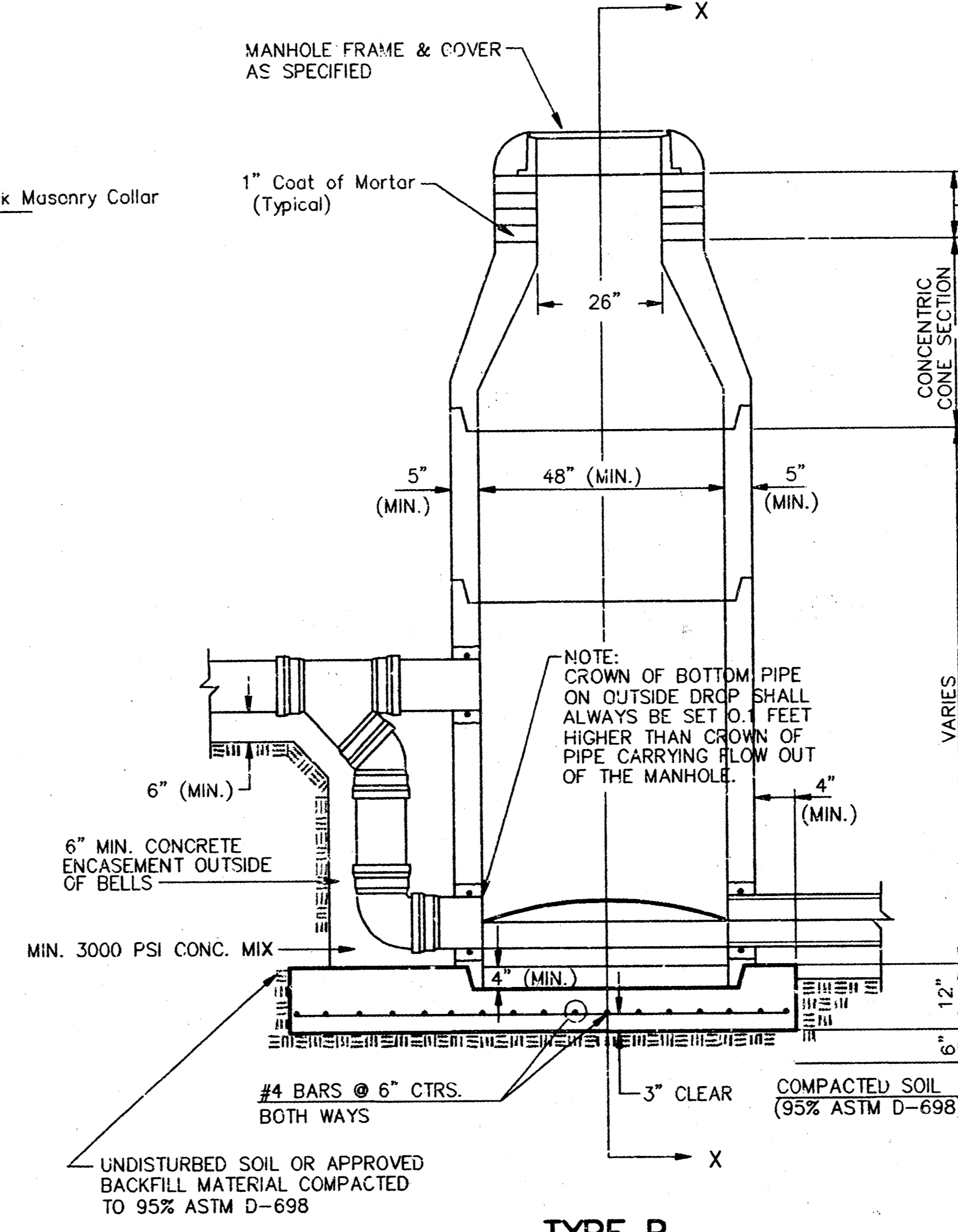
SEWER APPURTENANCES DETAILS



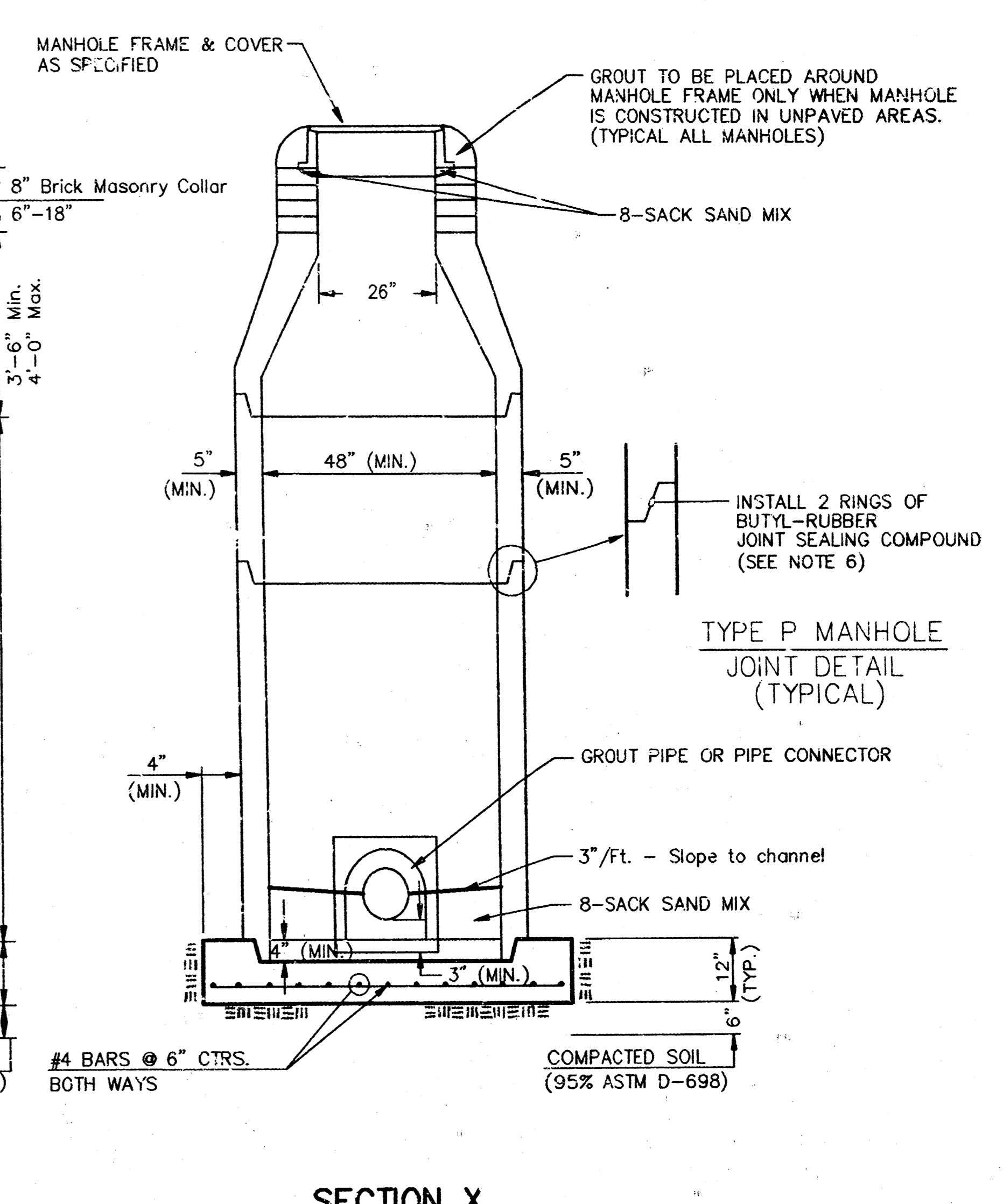
**TYPE P
STANDARD MANHOLE**



**TYPE P
INSIDE DROP MANHOLE**



**TYPE P
OUTSIDE DROP MANHOLE**



**SECTION X
(TYPICAL)**

**GENERAL NOTES
PRECAST MANHOLE NOTES**

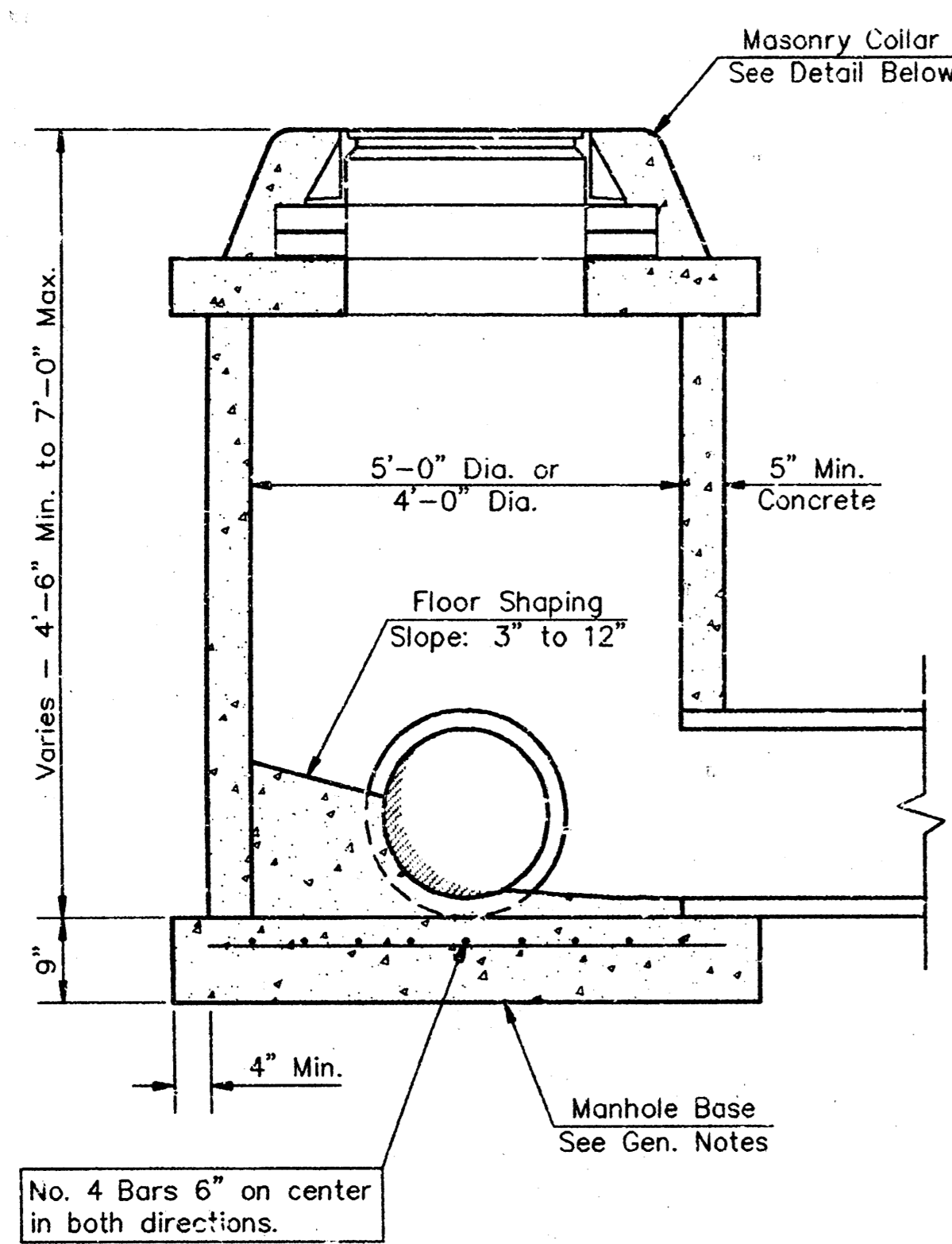
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER PIPE SHALL BE GROUDED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASUREMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TMEC SERIES 66 HI-BUILD EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.).
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 833 BITUMINOUS COATING.
- JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- 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 PAVEMENT 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.

- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" 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.
- OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUDED THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUDED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING 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 EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. 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.

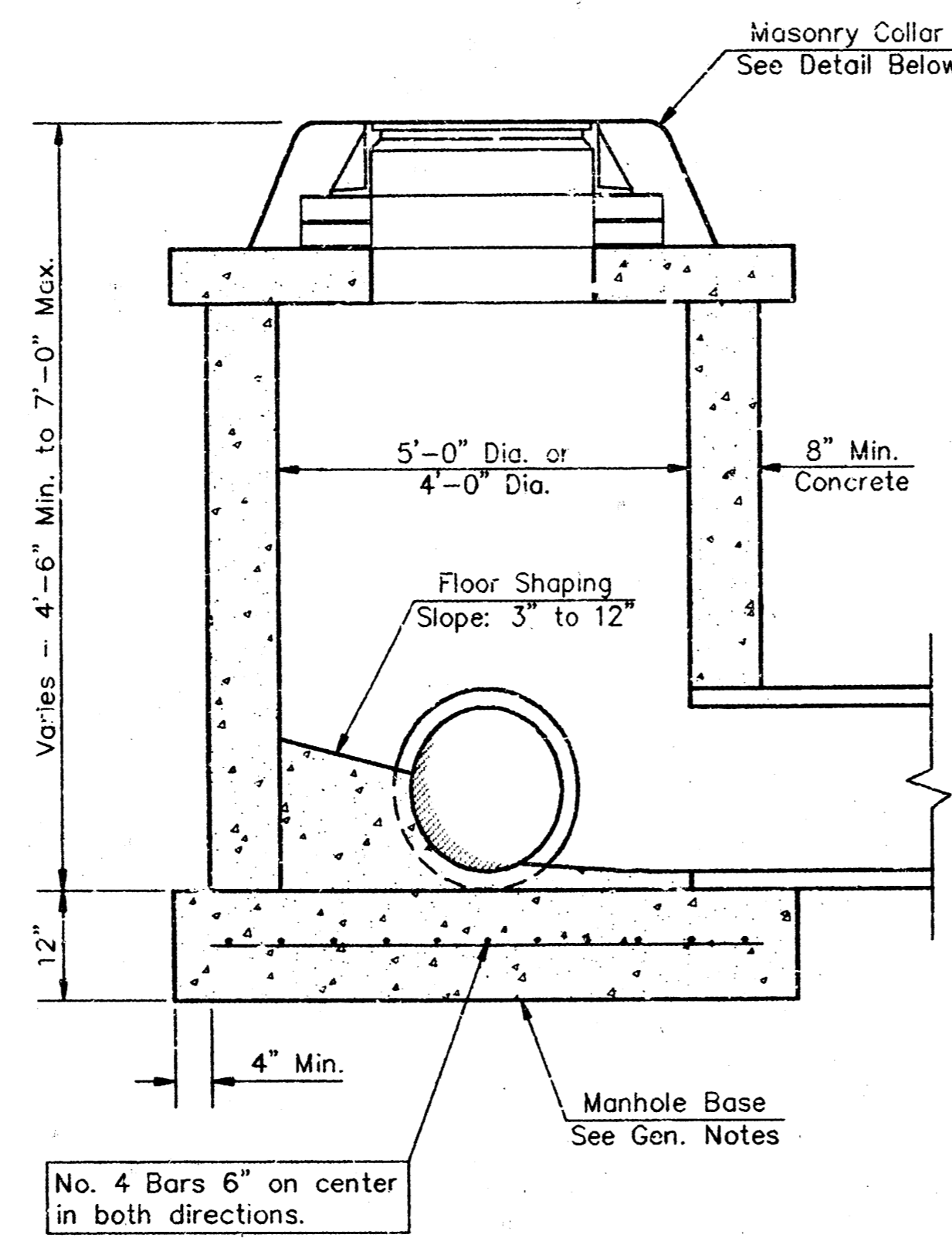
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
- A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.

**CITY OF WICHITA, KANSAS
STANDARD MANHOLE DETAILS
SEWER APPURTENANCES DETAILS**

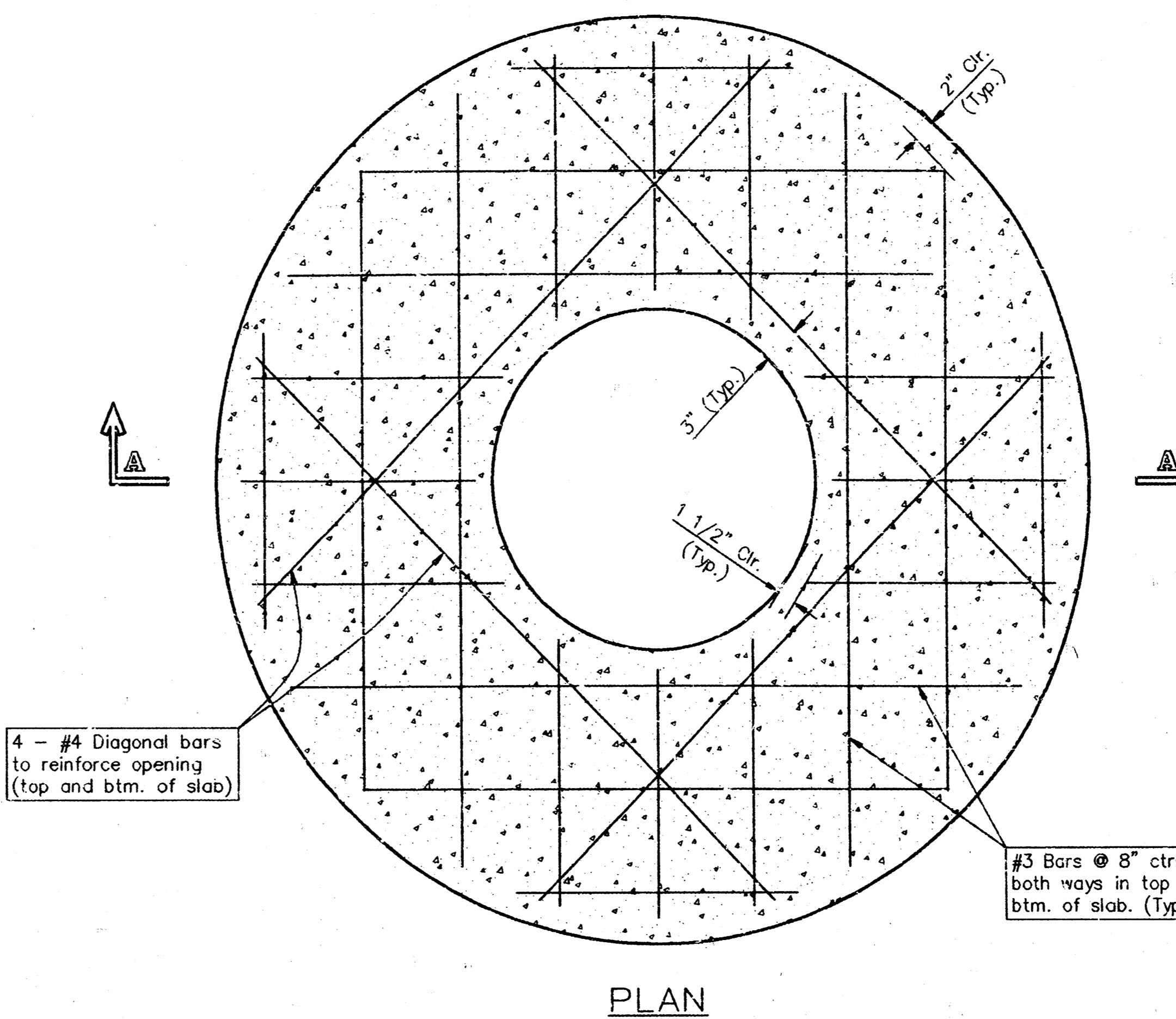
BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211		REV.
PROJECT NUMBER 468 76 245 82245 000 000 001		SHEET 5
DESIGN	DRAWN	APPROVED
DATE	SCALE	DATE
10-12-93	NONE	DATE



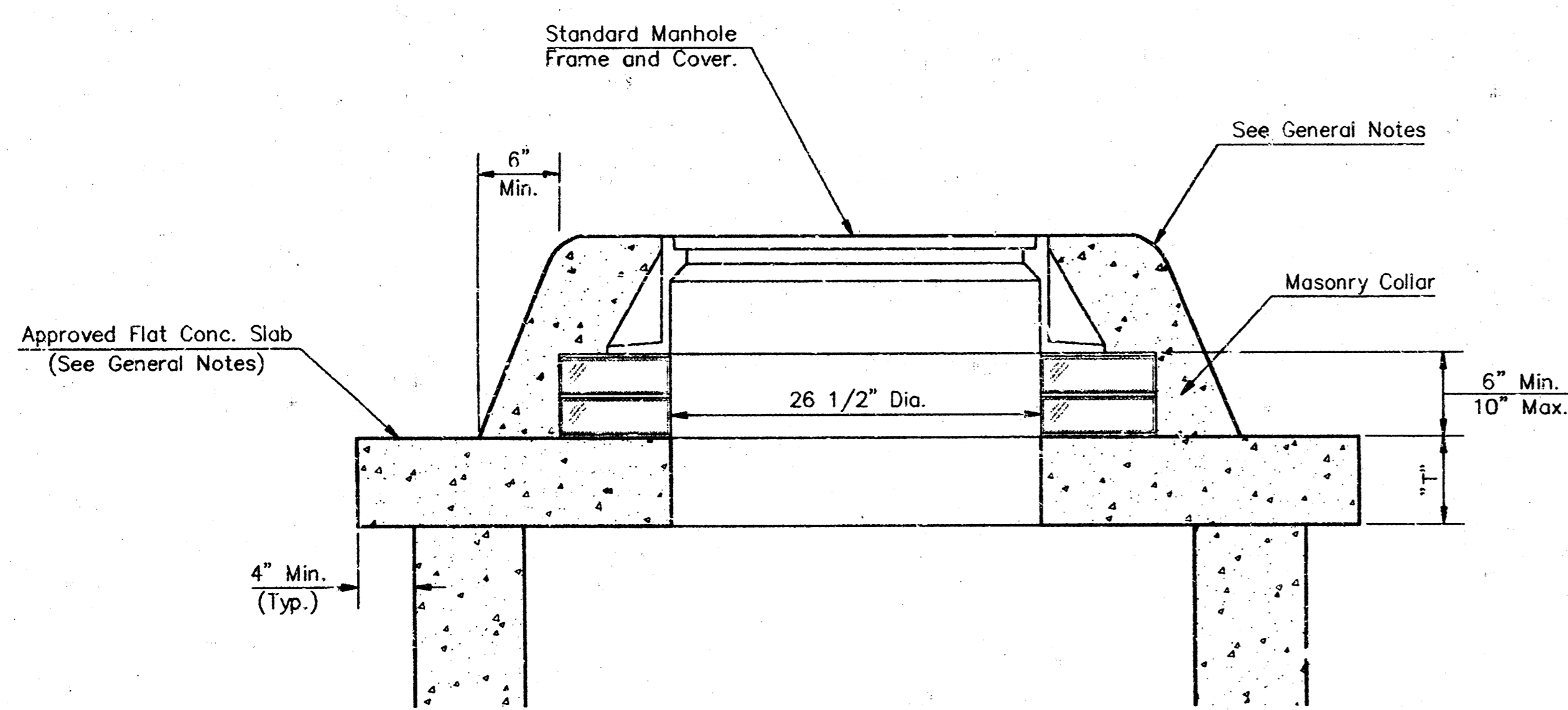
SHALLOW TYPE "P" MANHOLE



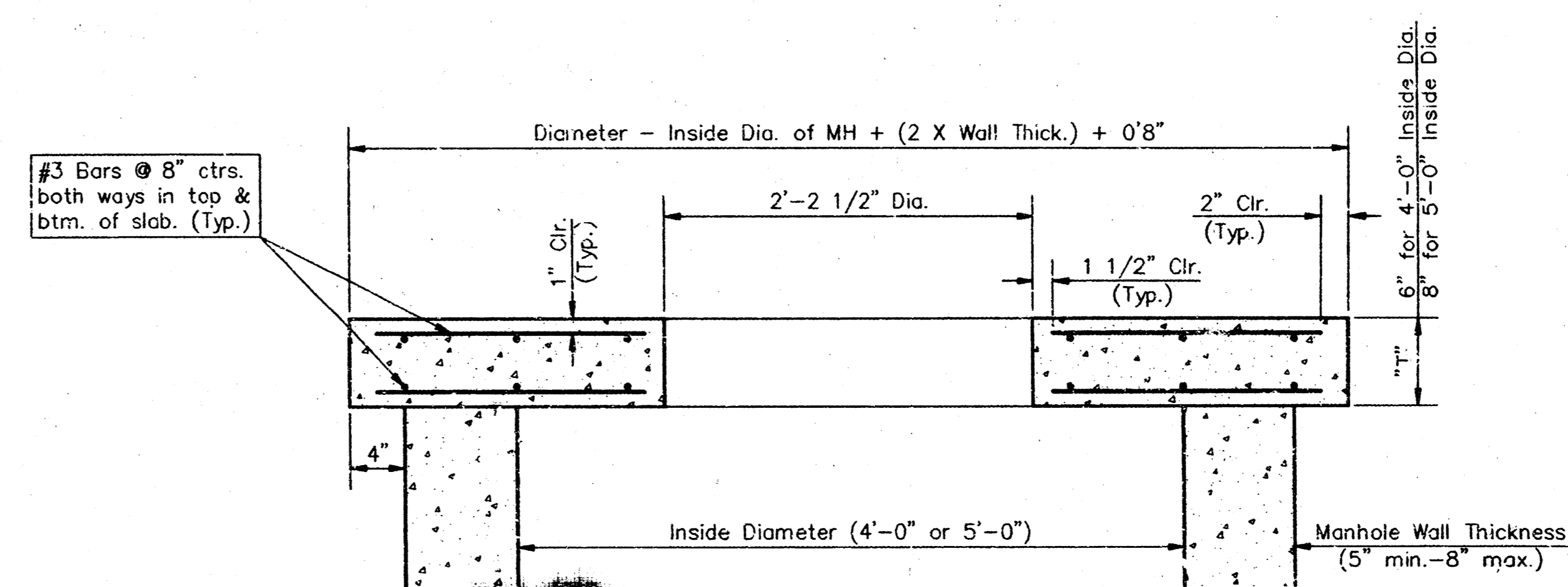
SHALLOW TYPE "C" MANHOLE



PLAN



MASONRY COLLAR DETAIL




SECTION A-A

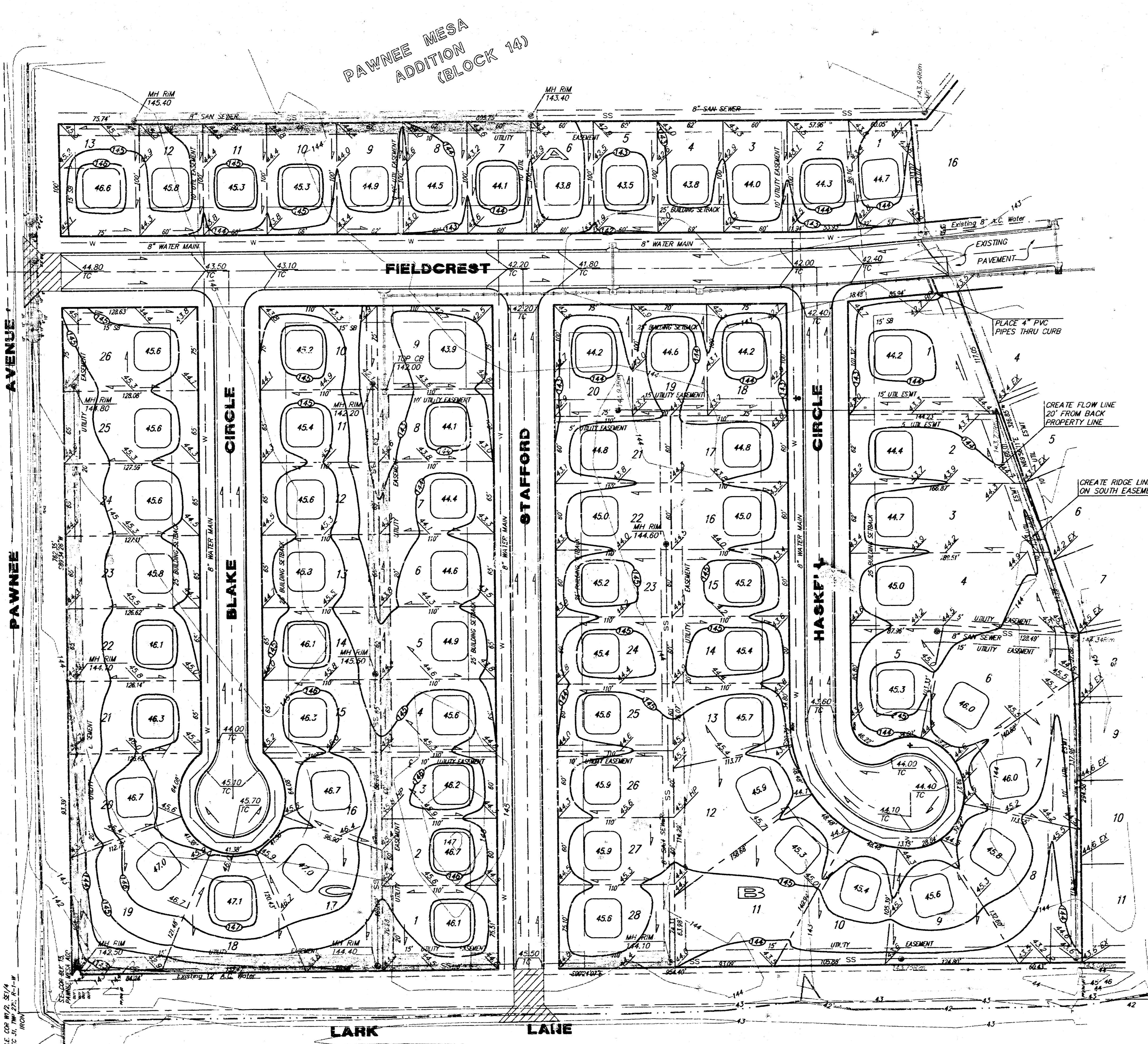
CONCRETE SLAB DETAILS

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. 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 6" 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 pipes 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 "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.
- All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

CITY OF WICHITA, KANSAS	
STANDARD SHALLOW MANHOLES	
TYPE "P" AND TYPE "C"	
PROJECT NUMBER	SHEET / OF
468 76 245 82245 000 000 C01	6 / 8
 BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	

DETAIL \SHL\WHZ\DWG



SCALE: 1" = 50'

PAWNEE MESA
ADDITION
(BLOCK 17)

BENCH MARK:
RR spike in T.P.
75' N.E. of intersection
Pawnee and Lark Lane
Elevation 1329.93 M.S.L.
(Elevation 142.53 City Datum)

City of Wichita Bench Mark Disc
1/2 mile east of 119th St. West & Pawnee
34' south of centerline Pawnee and
6' west of hedge row south
Elevation 145.50 City Datum
(Elevation 1332.90 M.S.L.)

NOTE:
Proposed minimum garage floor
elevations are shown on plans.
Contractor to set finish floor elevation.

All street elevations shown on plans
are for top of curb (full height).

Contour elevations shown are for
graphic representation of drainage
concept. Spot elevations shall take
precedence over contour lines.

**PARK GLEN ADDITION
LOT GRADING PLAN**

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

PROJECT NUMBER 468 76 245 82245 000 000 001					SHEET 7
DESIGN P.M./B.M.	DRAWN B.A.M.	APPROVED	DATE 10-12-93	SCALE 1" = 50'	OF 8

PARK GLEN ADDITION

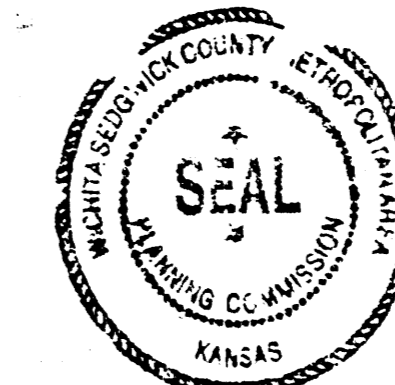
WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS We, Baughman Company, P.A., Surveyors in
Sedgwick County) aforesaid County and State do hereby certify that we have surveyed
and platted "PARK GLEN ADDITION", Wichita, Sedgwick County, Kansas
and that the accompanying plat is a true and correct exhibit of the
property surveyed, described and being a replat of Lots 17, 18, 19,
20, 21, 22, 23, 24, 25, and 26, Block 14, and Lot 1, Block 15, and
Lot 1, Block 16, and Lots 1, 2, 3, and Lots 12, 13, 14, 15, 16, 17,
18, and 19, Block 17, Pawnee Mesa Addition, an Addition to Sedgwick
County, Kansas, together with all of Blake, adjacent to said Blocks
15, 16, and 17 and together with all of Haskell, adjacent to said
Blocks 16 and 17.

This plat of "PARK GLEN ADDITION", Wichita,
Sedgwick County, Kansas has been submitted to and approved by
the Wichita-Sedgwick County Metropolitan Area Planning Commission,
Wichita, Kansas.

Dated this 30th day of July 1992
Wichita-Sedgwick County Metropolitan Area Planning Commission

Christopher J. Geibel Chairman
Marvin S. Kroul Secretary



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

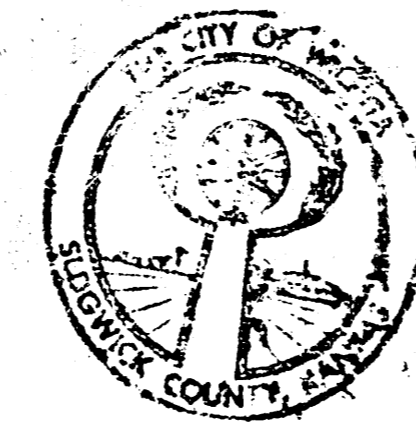
Baughman Company, P.A.

Date 1 Sep 1992



Mark A. Sovey Surveyor

This plat approved and all dedications
shown hereon accepted by the City Council of the City of Wichita,
Kansas, this 20th day of October 1992.



F. M. Boyle Mayor
Pat Burnett Deputy City Clerk
Pat Burnett

Know all men by these presents that we,
the undersigned, have caused the land described in the surveyors cert-
ificate to be platted into Lots, Blocks, and Streets, to be known as
"PARK GLEN ADDITION", Wichita, Sedgwick County, Kansas. The util-
ity easements are hereby granted as indicated for the construction
and maintenance of all public utilities. The streets are hereby ded-
icated to and for the use of the public. All abutters rights of access to
or from Lark Lane, over and across the east line of Blocks B and A
and to or from Pawnee Ave., over and across the south line of Blocks A,
and C are hereby granted to the appropriate governing body.

Realty One Corp

A. J. Soerries President
A. J. Soerries
Carol M. Soerries
Attorney in Fact.
Carol M. Soerries
Attorney in Fact

Entered on transfer record this 19th day
of January 1993



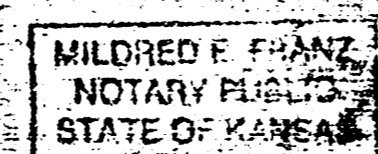
Susan E. Crockett-Spoon County Clerk
Susan E. Crockett-Spoon
by *Bonnie Shellen*
Chief Deputy
Bonnie Shellen

#1264506

State of Kansas) SS The foregoing instrument acknowledged be-
fore me, this 22 day of September 1992, by A.J. Soerries,
Sedgwick County) President of Realty One Corp., on behalf of the corporation.
CARRIE M. SOERRIES
Attorney in Fact.

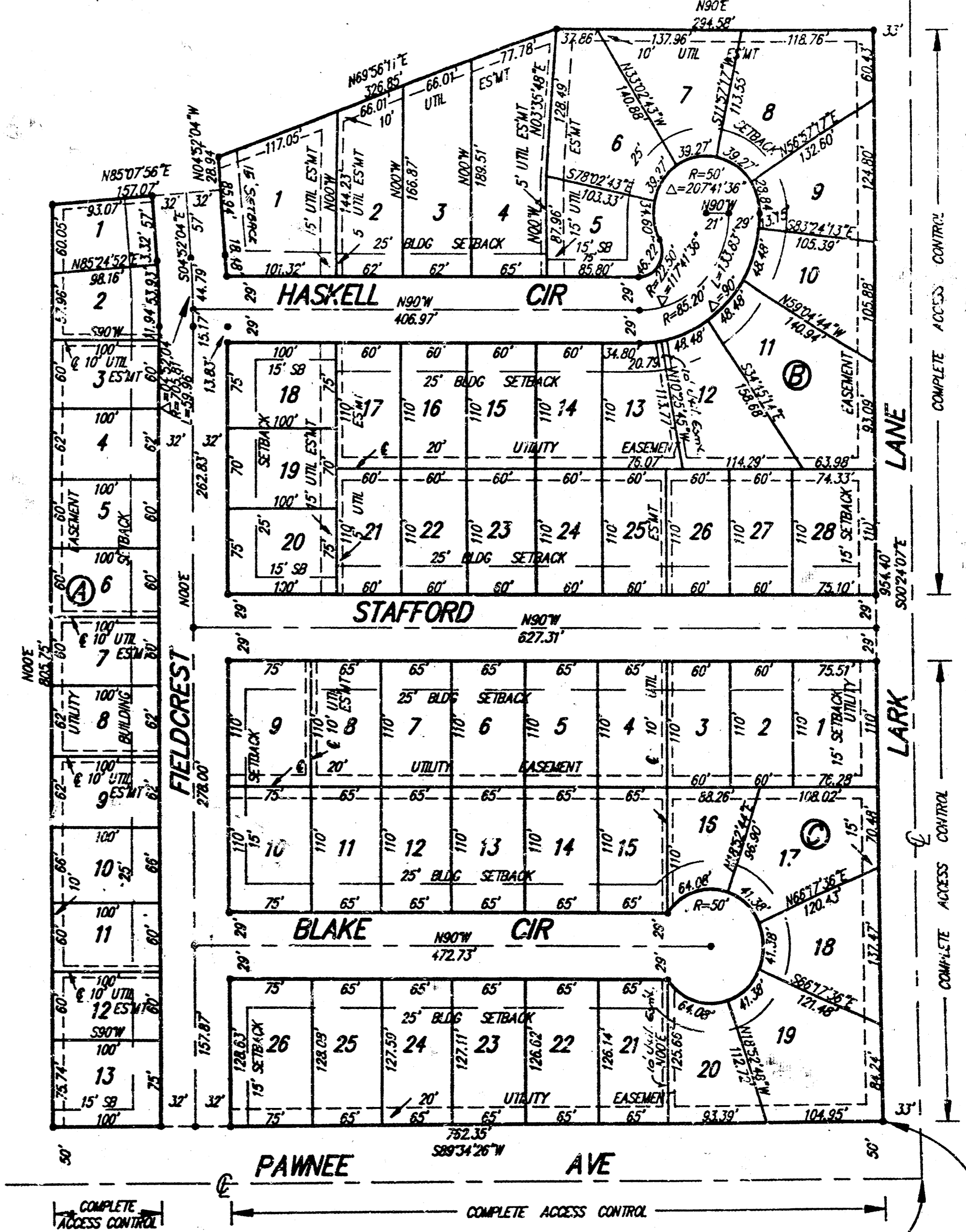
David E. Long Notary Public

My Exp. Exp. 2-3-95



State of Kansas) SS This is to certify that this plat has been
Sedgwick County) filed for record in the office of the Register of Deeds, this 21st day
of January 1993, at 1:00 o'clock P.M. and is duly
recorded.

Pat Kettler Register of Deeds
Pat Kettler
Ed Resul Deputy



S.E. COR 1/2 SE 1/4
SEC. 21, TWP. 23S, R. 17W
S.E. COR BLK 14
PAWNEE MESA ADD