

STORM WATER SEWER IMPROVEMENTS

to serve

Park Elementary School

1025 North Main

CITY OF WICHITA, KANSAS

Michael E. Lindorak, P.E. City Engineer

Private Project Number

1120 PPS (007801)

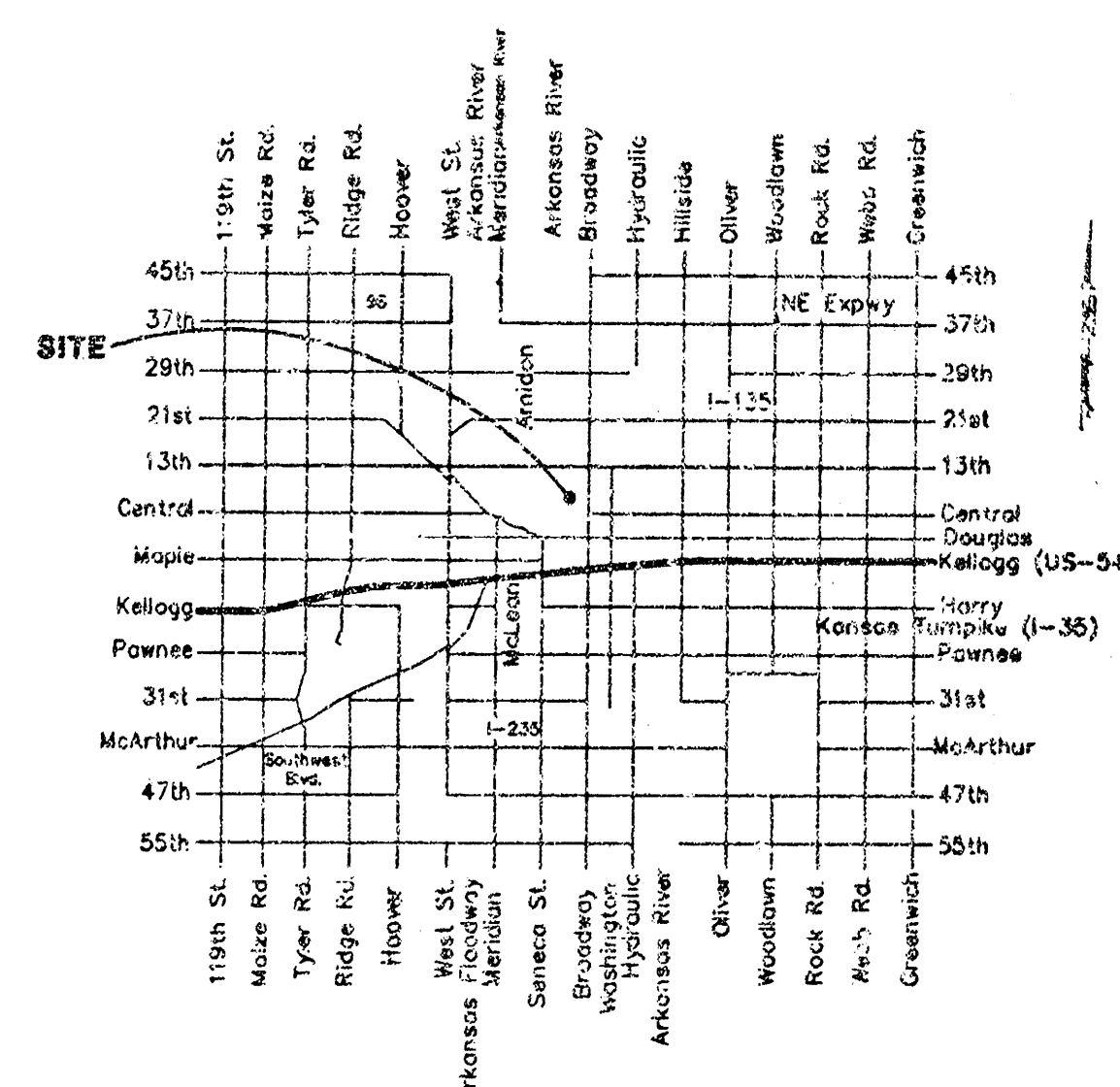
Benchmark

"B" On Center North End of
Curb Inlet, Found On South
Side of Water St.
Cut-de-sac.
Elev.=116.83 (City Datum)

Sheet Index

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Copy of A.L.T.A. Survey	8

Location Map



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewer *Julianne Kallman 5-18-01*

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).

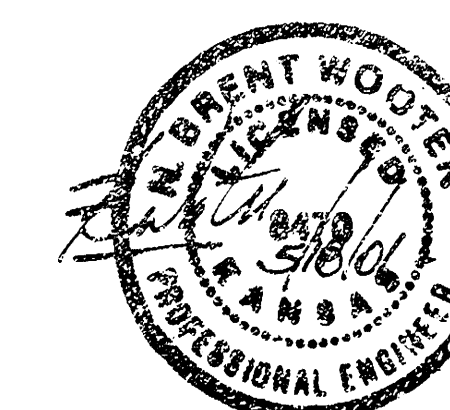
GENERAL NOTES:

- 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 587-2470
The Contractor must notify the following in case of an emergency:
Cox Communications 252-0651
Kansas Gas Service 393-8500
Kansas Gas & Electric Company 433-8000
People's Gas Company 942-3333
Southwestern Bell Telephone Company 1-800-344-7233
City of Wichita Water Dept. 268-4908
City of Wichita Traffic Engineering 268-4446

Scale: 1" = 60'

- 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.
- 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.
- All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "patted" with forks or punched into soil to reduce loss due to wind.
- 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.
- 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 reestablished by a licensed land surveyor in accordance with state laws.
- 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. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- Cuts made to paved surfaces on public property will be repaired by the City's contractor and charged against the owner/applciant. Unit repair prices are available from the City at 268-4418. A surcharge may be applicable; call 268-4418 for details. Repair costs to be paid prior to release of sewer service if sewer service is affected. Contractor shall obtain permit prior to construction.
- Contractor shall provide geotechnical services through Terrcon for all testing necessary for fill placed in the location of the removed 18" SWS line. Contact Kent Schwieger at 262-0171 for a proposal.

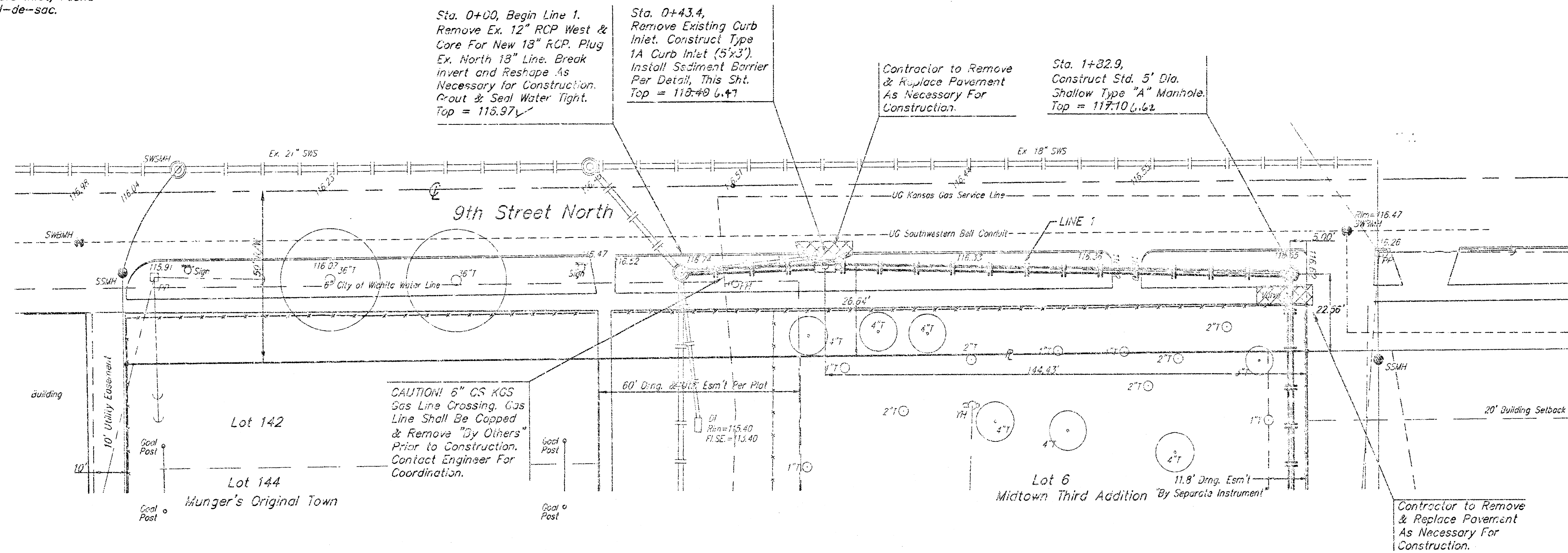
A.B. 8/01 KK



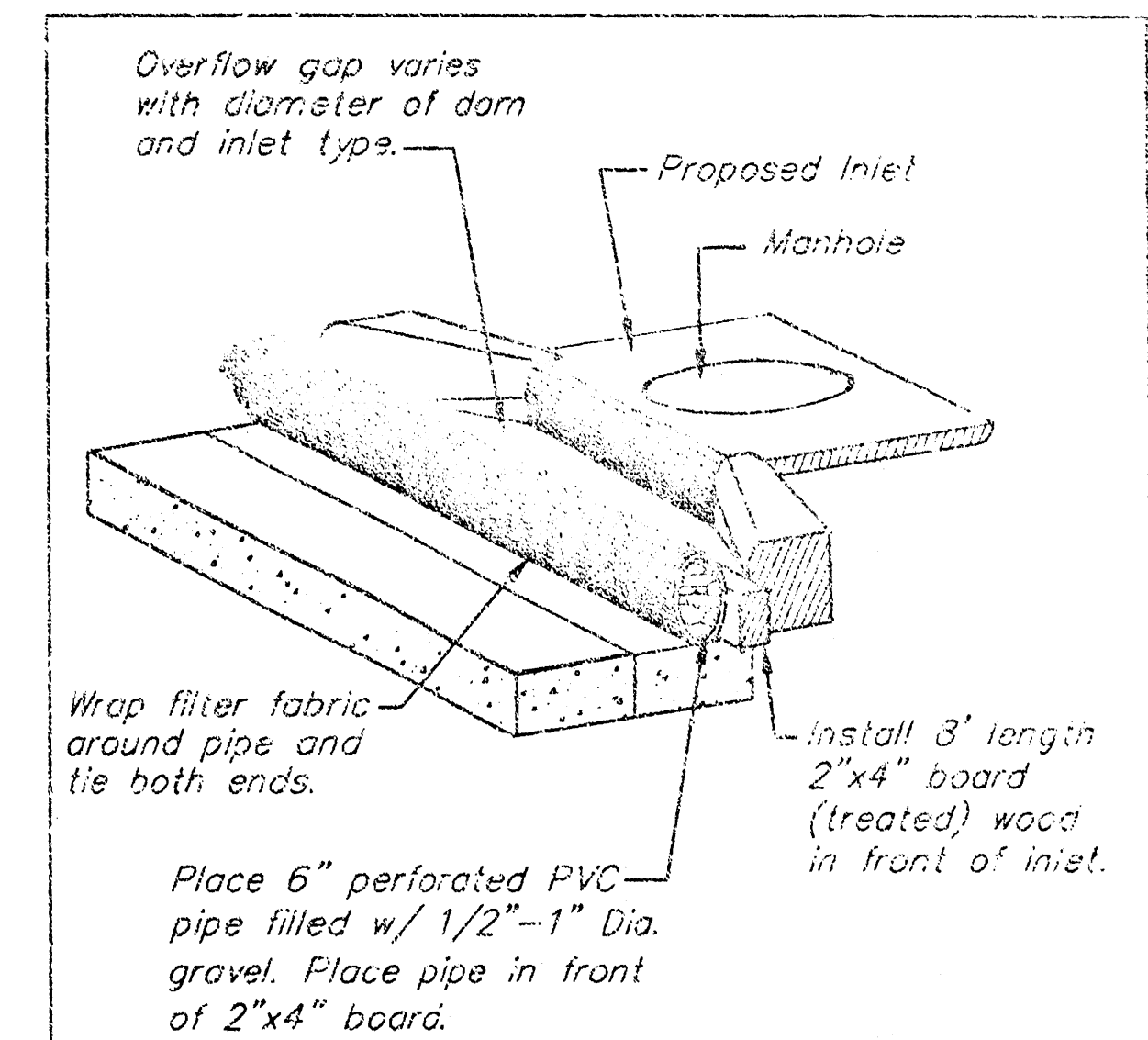
05/07/2001
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-282-7271 • 315-ELLS • WICHITA, KANSAS 67211
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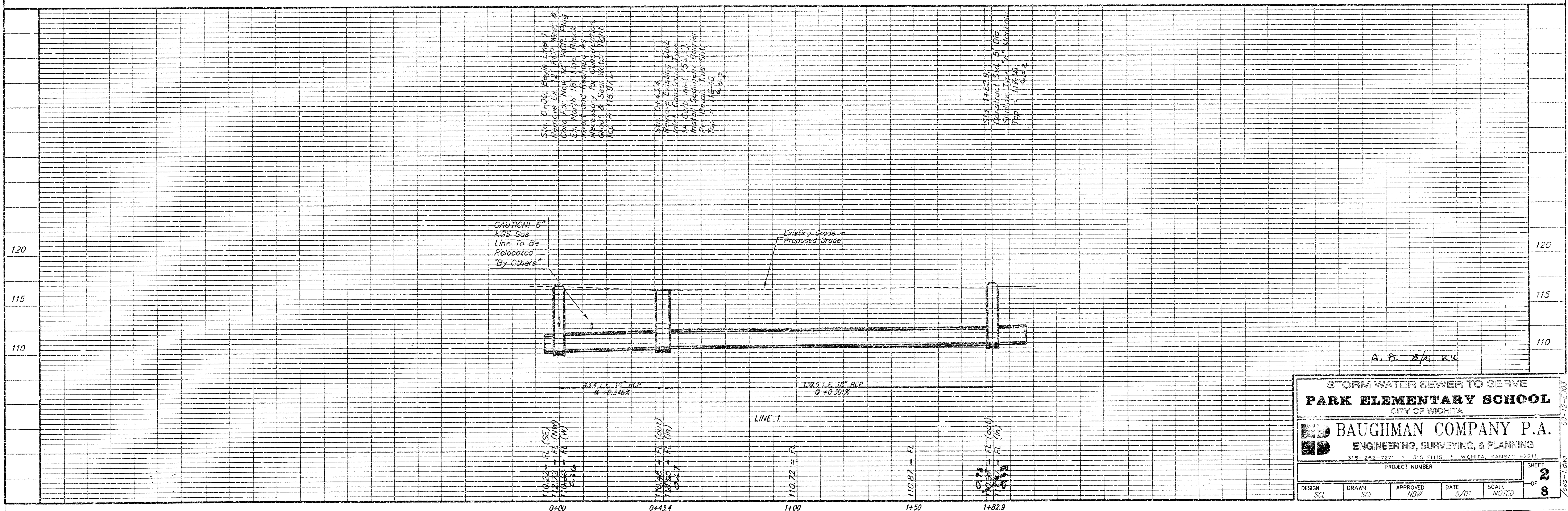
BENCHMARK:
 "B" On Center North End of Curb Inlet, Found
 On South Bulb of Water St. Cul-de-sac.
 Elev.=116.83 (City Datum)



SCALE:
 1" = 20' HORIZONTAL
 1" = 5' VERTICAL
 • = IRON



INLET PROTECTION
 Perforated Pipe w/ Gravel



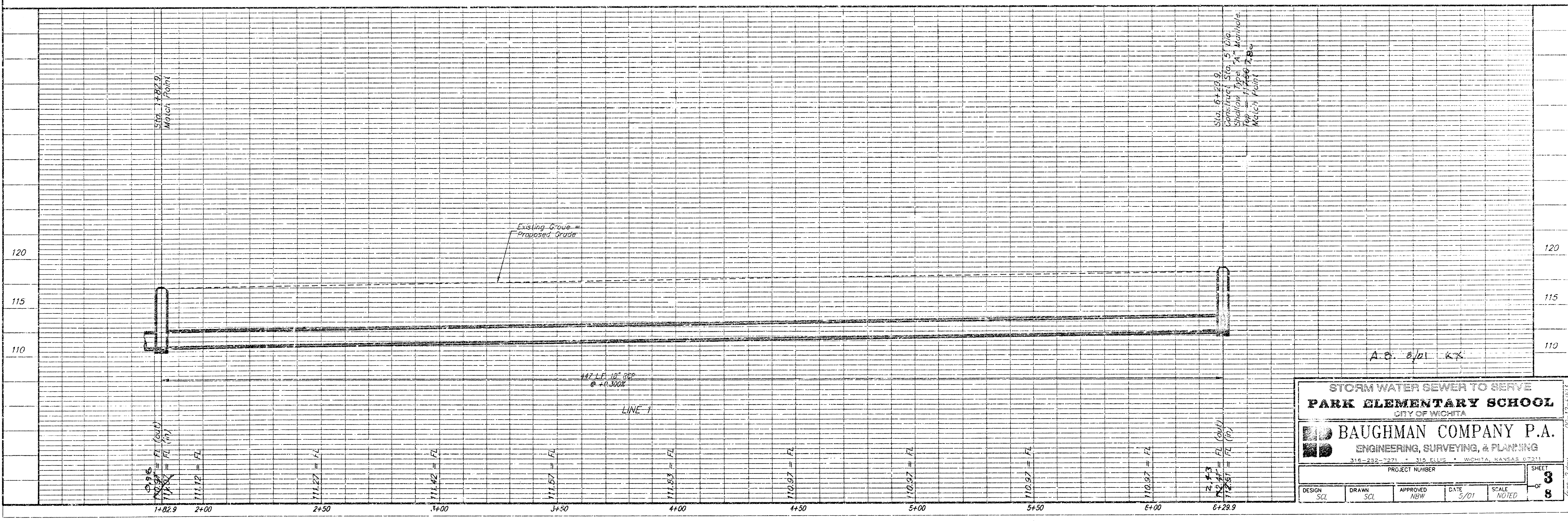
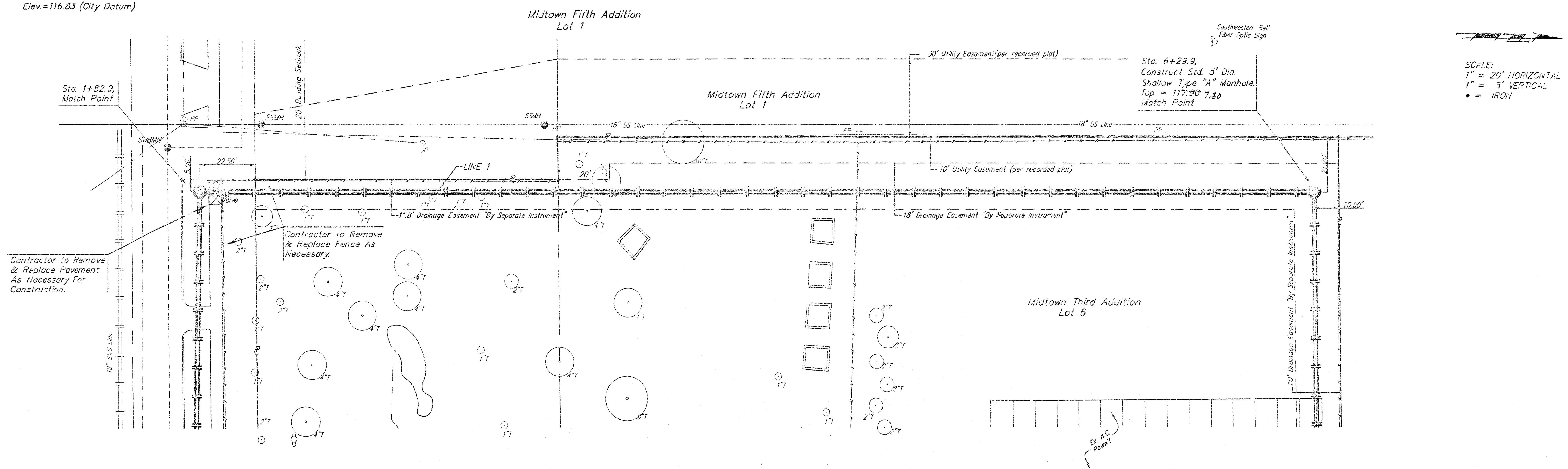
STORM WATER SEWER TO SERVE
PARK ELEMENTARY SCHOOL
 CITY OF WICHITA

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

PROJECT NUMBER: _____ SHEET: **2** OF **8**

DESIGN: SCL DRAWN: SCL APPROVED: NEW DATE: 5/01 SCALE: NOTED

BENCHMARK:
 "□" On Center North End of Curb Inlet, Found
 On South Bulb of Water St. Cul-de-sac.
 Elev.=116.83 (City Datum)



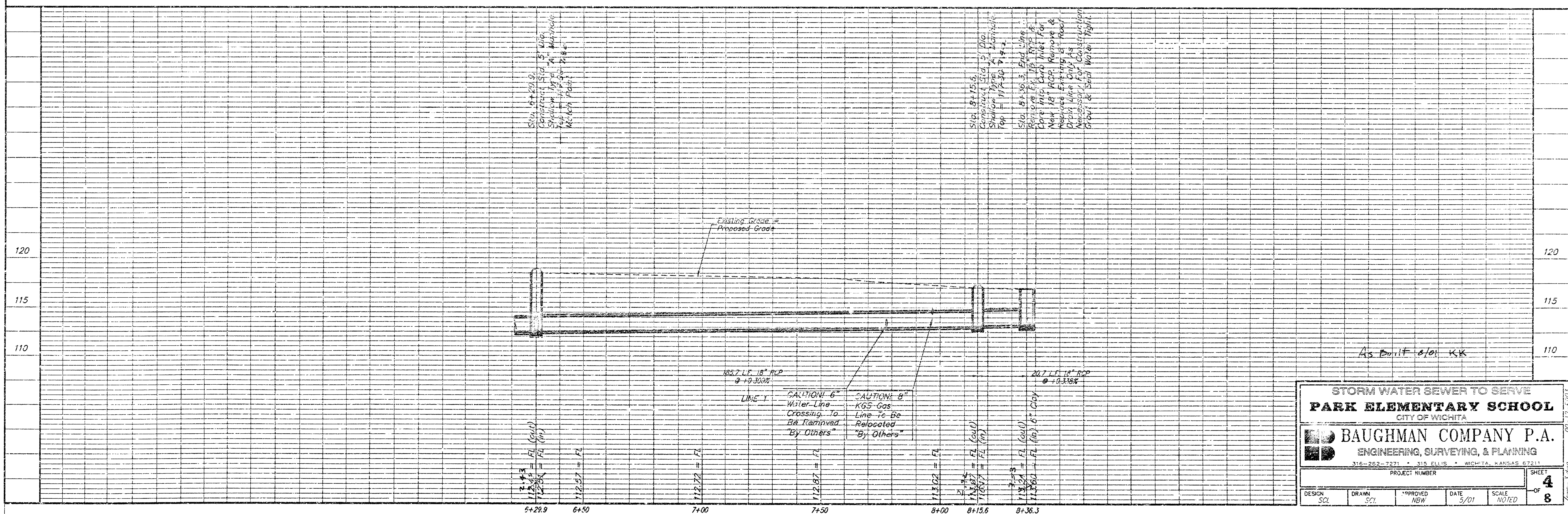
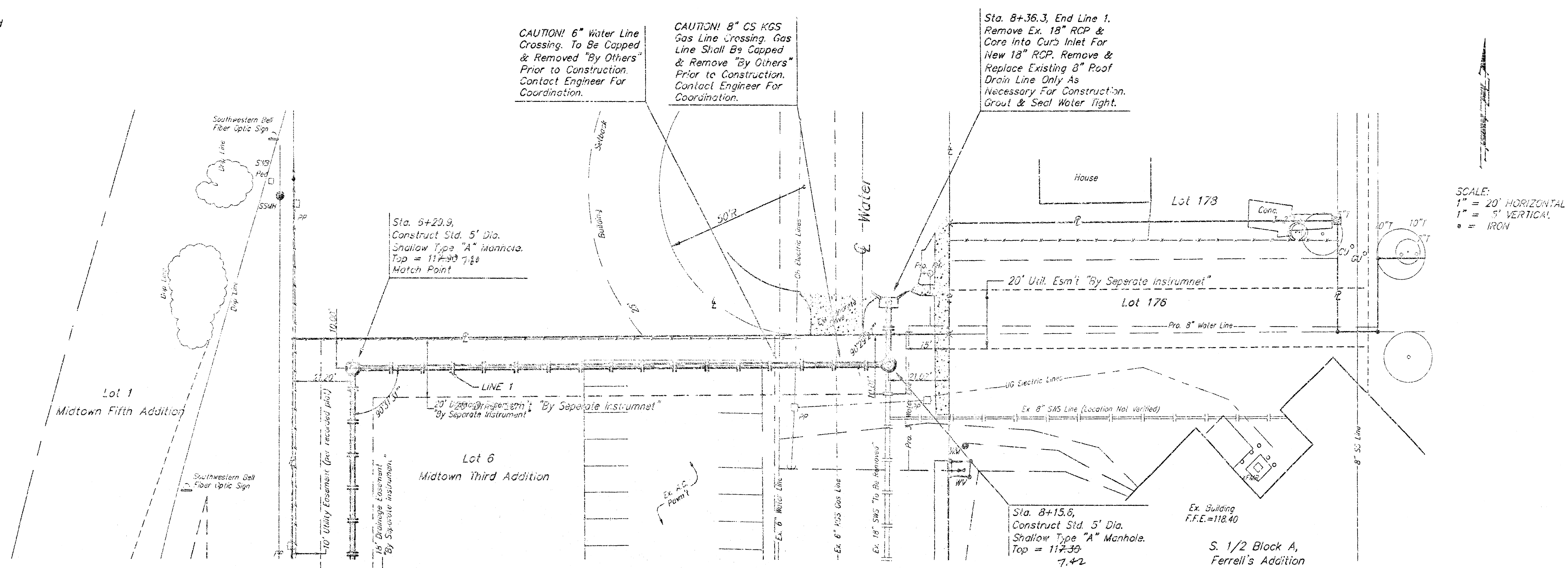
STORM WATER SEWER TO SERVE
PARK ELEMENTARY SCHOOL
 CITY OF WICHITA

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-252-7271 • 315 ELLIS • WICHITA, KANSAS 67201

PROJECT NUMBER: _____ SHEET **3** OF **8**

DESIGN SCL	DRAWN SCL	APPROVED NEW	DATE 5/01	SCALE NOTED
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BENCHMARK:
 "□" On Center North End of Curb Inlet, Found
 On South Bulb of Water St. Cul-de-sac.
 Elev.=116.83 (City Datum)



**STORM WATER SEWER TO SERVE
 PARK ELEMENTARY SCHOOL
 CITY OF WICHITA**

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

PROJECT NUMBER: _____ SHEET: **4**
 8

DESIGN: SCL DRAWN: SCL APPROVED: NEW DATE: 9/01 SCALE: NOTED

BENCHMARK:
"□" On Center North End of Curb Inlet, Found
On South Bulb of Water St. Cul-de-sac.
Elev.=116.83 (City Datum)

SCALE:
1" = 30'
• = IRON

- FH = Fire Hydrant
 - GM = Gas meter
 - GP = Guy Pole
 - GU = Guard Post (Bulldog)
- ← Guy = Guy Anchor
- HV = Ingestion Control Valve - Voice Box
 - L = Light Pole
 - FM = Pipeline Marker
 - PP = Power Pole
 - S = Sign
 - SSW = Southern Sewer Manhole
 - SSWHM = Southwestern Bell Manhole
 - SSB Pd = Southwestern Bell Pedestal
 - SSWHM = Stormwater Sewer Manhole
 - T = Tree
 - TR = Traffic Box
 - TRM = Traffic Manhole
 - HW = Water Meter
 - MV = Motor Valve
 - TRM = Transformer
- IN = Inlet (param(Signet))

- ☐ = P.K. Nail Set
- ☒ = #4 Baughman Rebar Set
- ☐ = 1/2" Iron Pipe Found
- ☐ = 1" Iron Pipe in Thimble Found
- ☐ = Chiseled V-Notch Found
- ☒ = Chiseled Cross Found
- ☒ = #6 Rebar in Thimble Found
- ☒ = 3/4" Iron Pipe in Thimble Found
- ☒ = 3/4" Iron Pipe Found
- ☒ = Chiseled Cross Set

Remove & Replace
Fence/Sidewalk As
Necessary For
Demolition. This
Item Shall Be
Included In The L.S.
Bid Item, "Site
Clearing &
Restoration".

Plug Existing 18" RCP & Remove Line North To The Curb Inlet Located in Water St. Cui-De-Sac. Back Fill Line With Onsite & Approved Offsite Material. Material Shall Be Replaced and Compacted in 9" Lifts To at Least 95% Std. Proctor Max. Density.

*All Disturbed Underground
Storm Drain Pipes Tapping
The Ex. 18" SWS Pipe &
Inlet Shall Be Reconnected
To The Pro. MH (Sta.
8+15.6). This Item Shall Be
Included In The L.S. Bid
Item, "Site Clearing &
Restoration".*

--- = DEMOLITION LIMITS

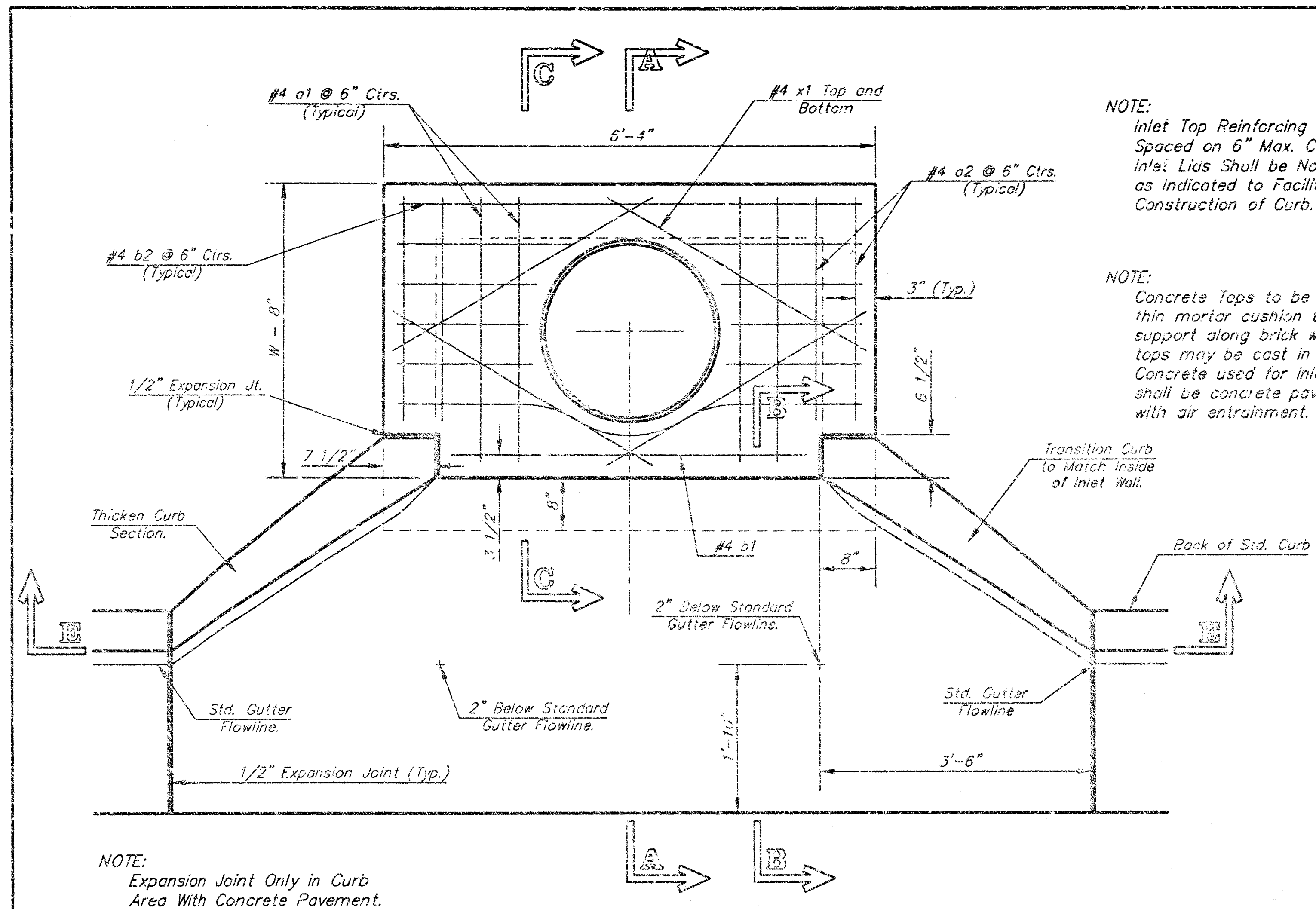
PARK ELEMENTARY SCHOOL
DEMOLITION PLAN
CITY OF WICHITA

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

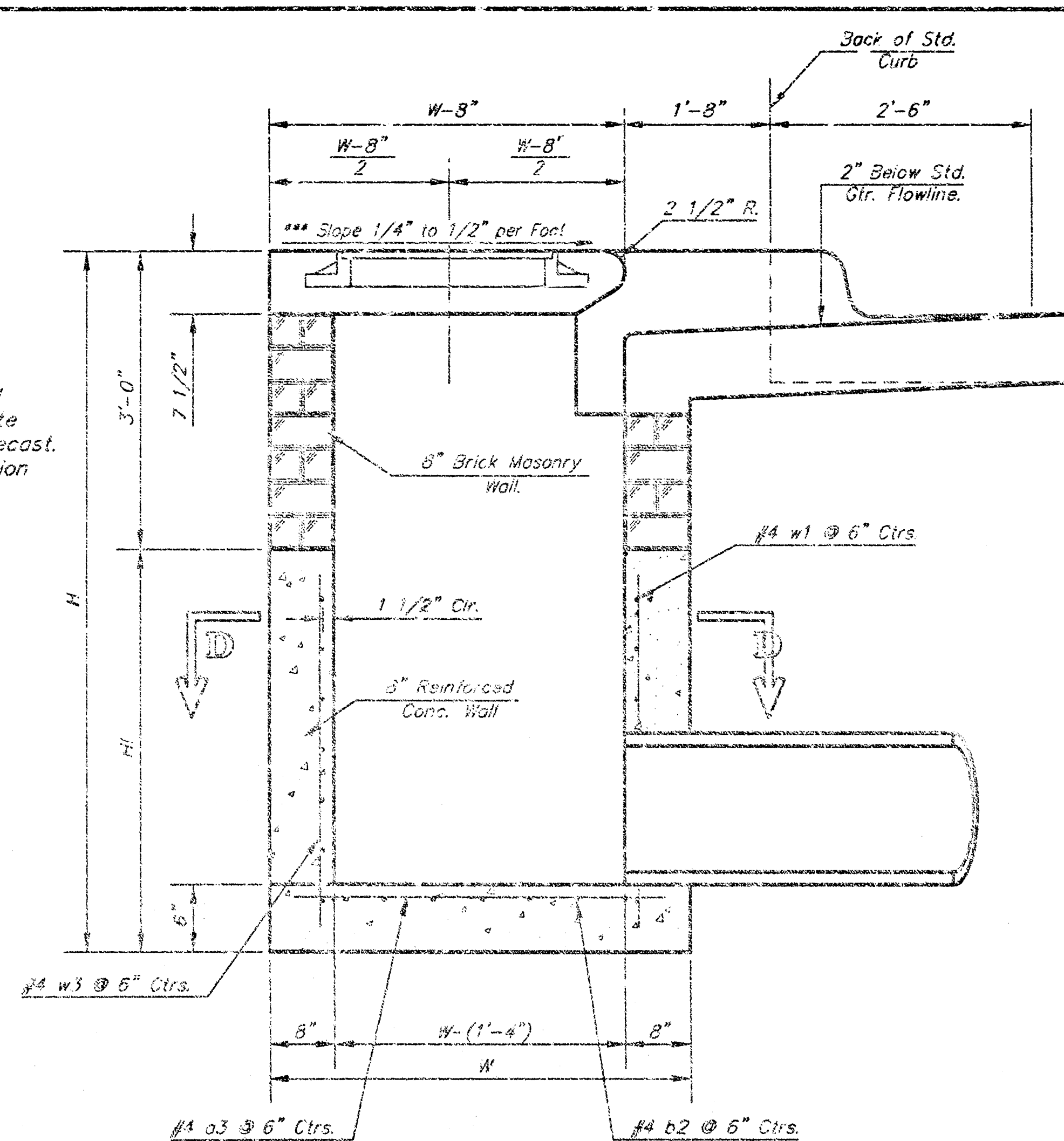
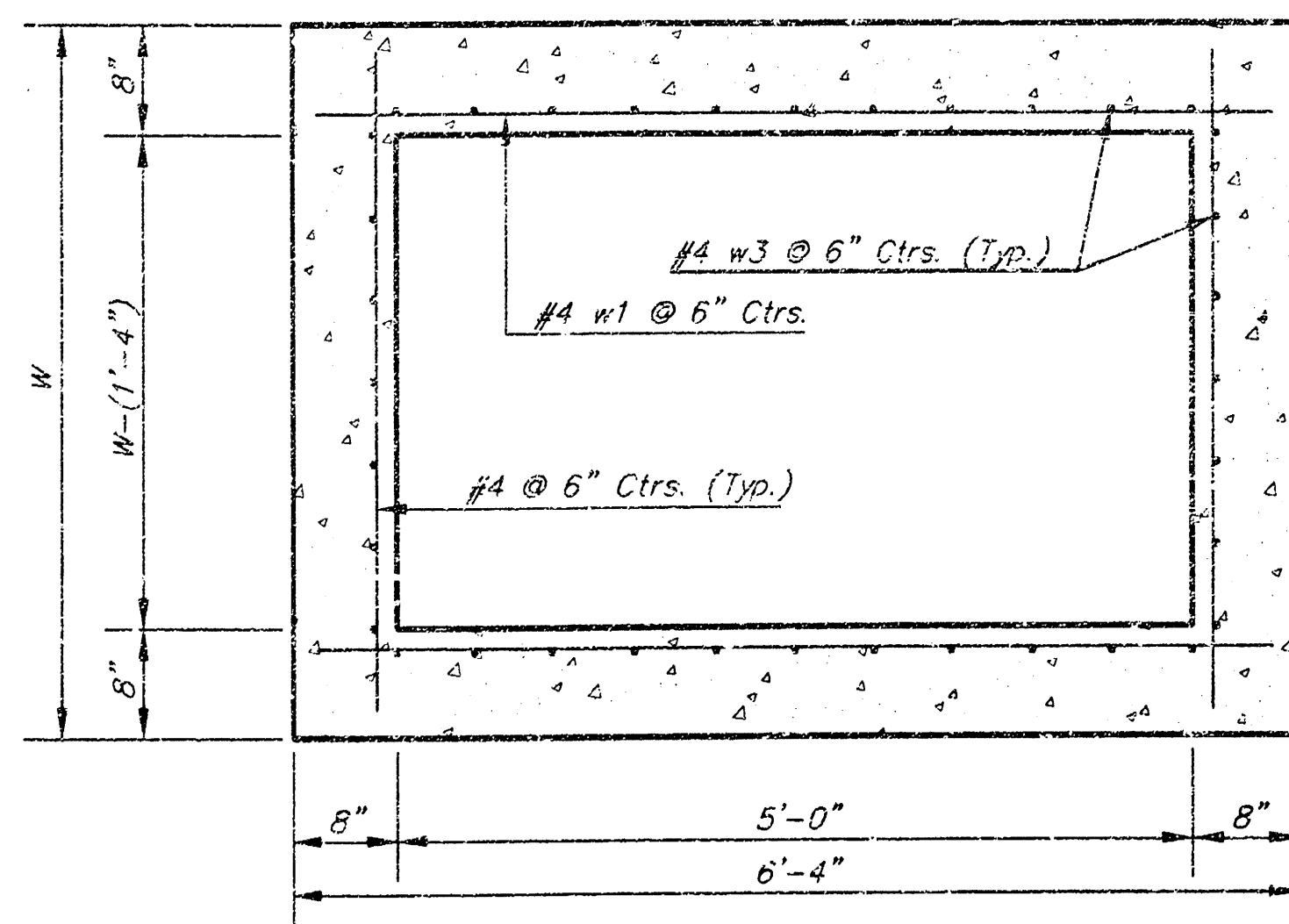
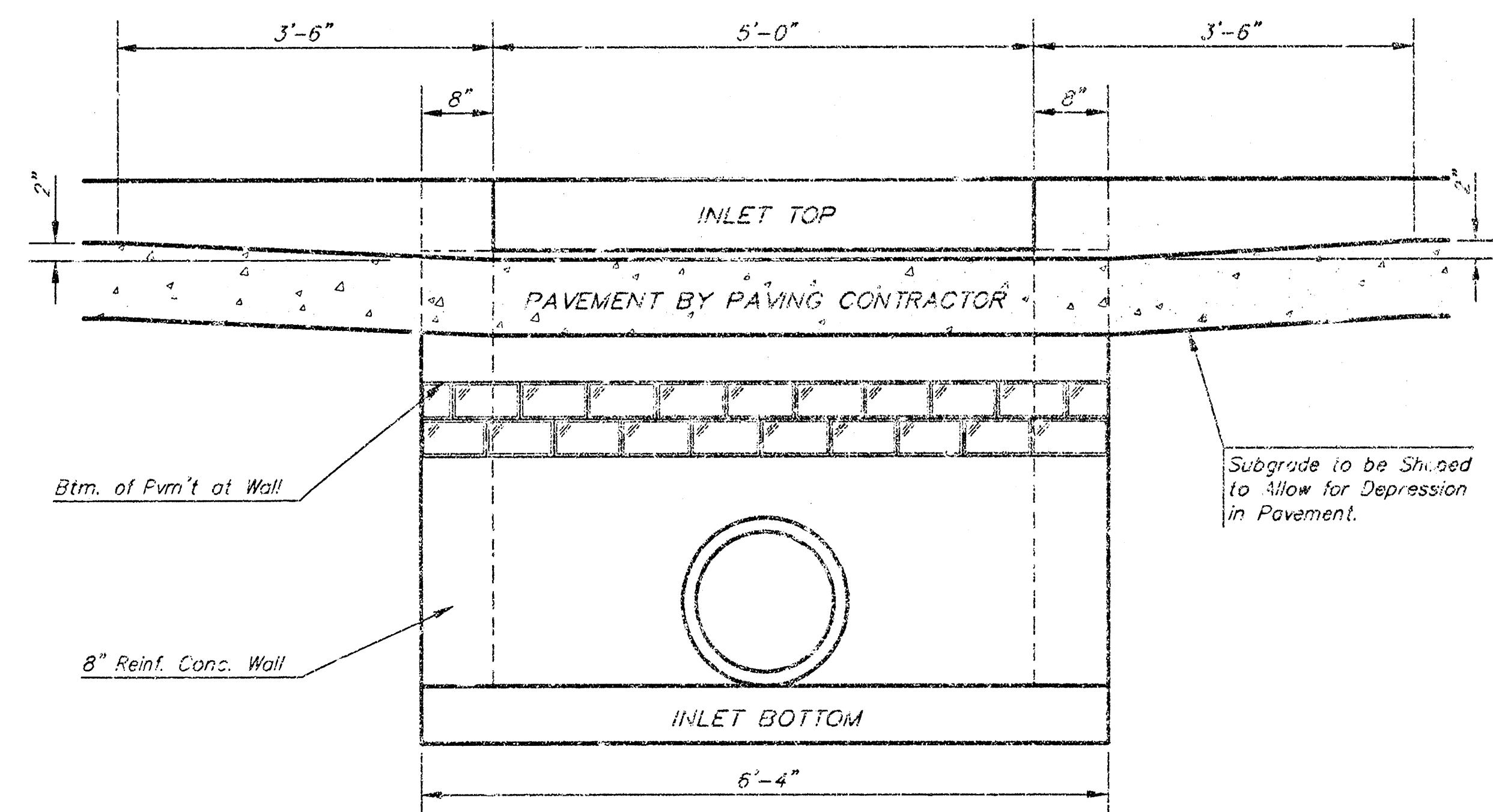
PROJECT NUMBER

DESIGN SCL	DRAWN SCL	APPROVED NBW	DATE 05/01	SCALE NOTED
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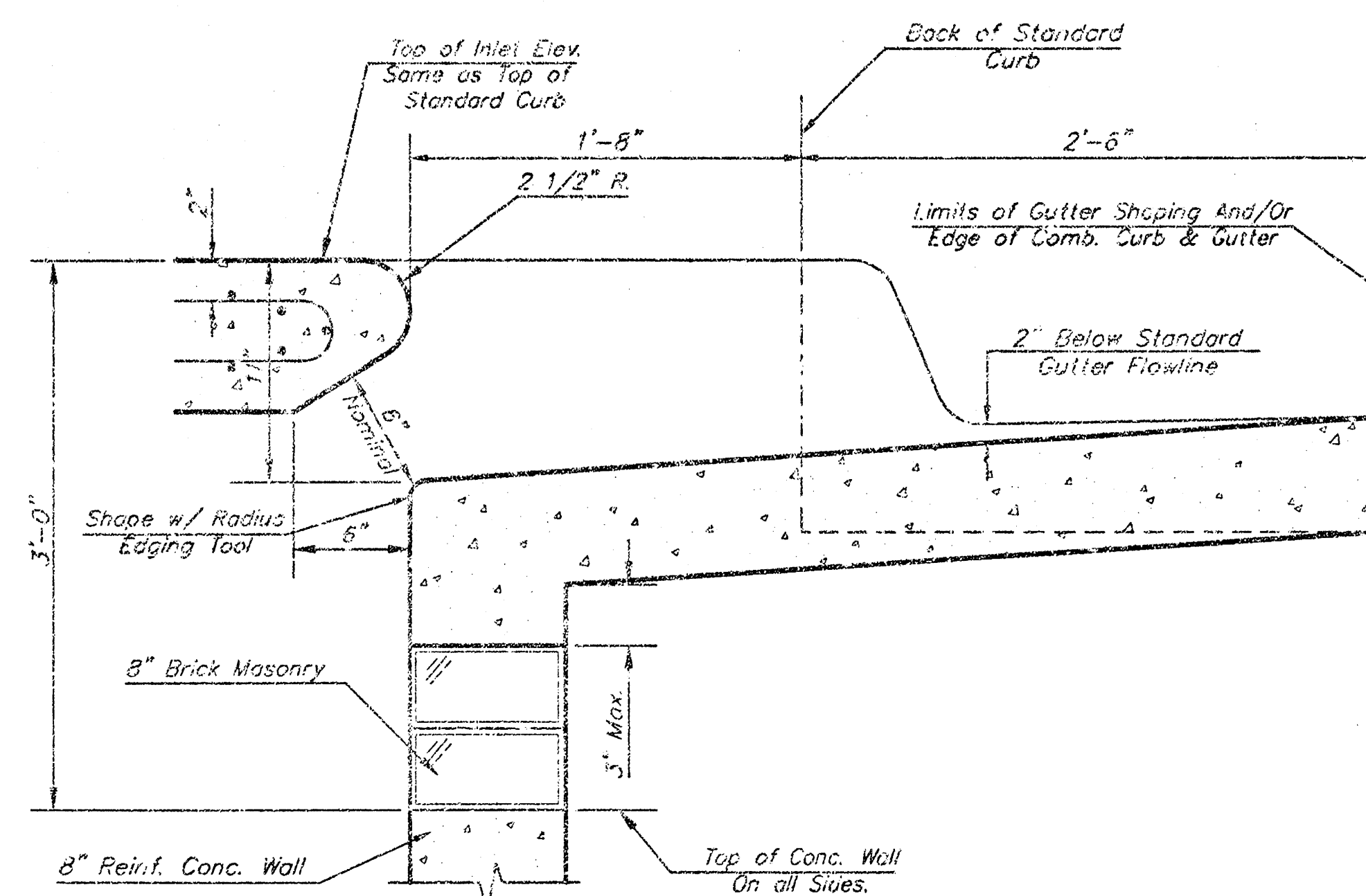
SHEET 5 OF 8



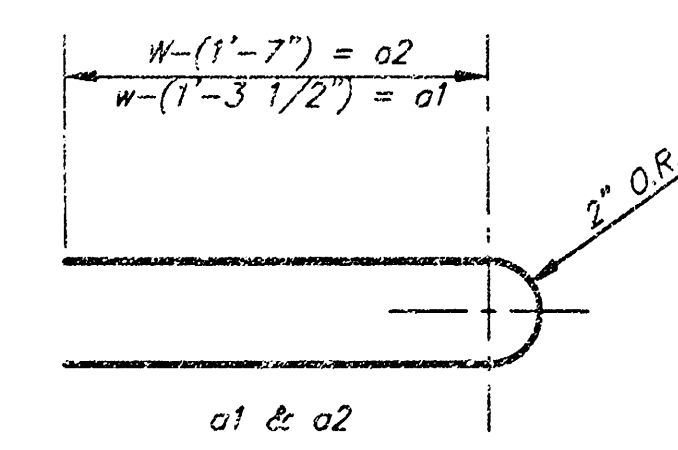
PLAN



SECTION A-A



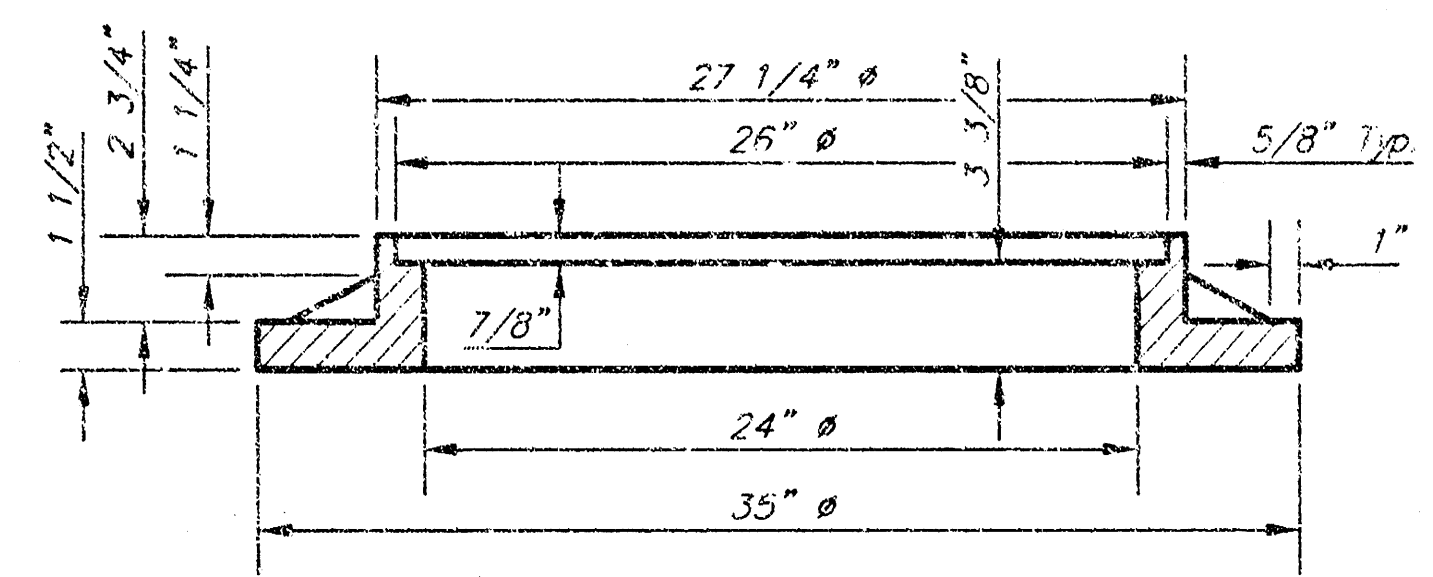
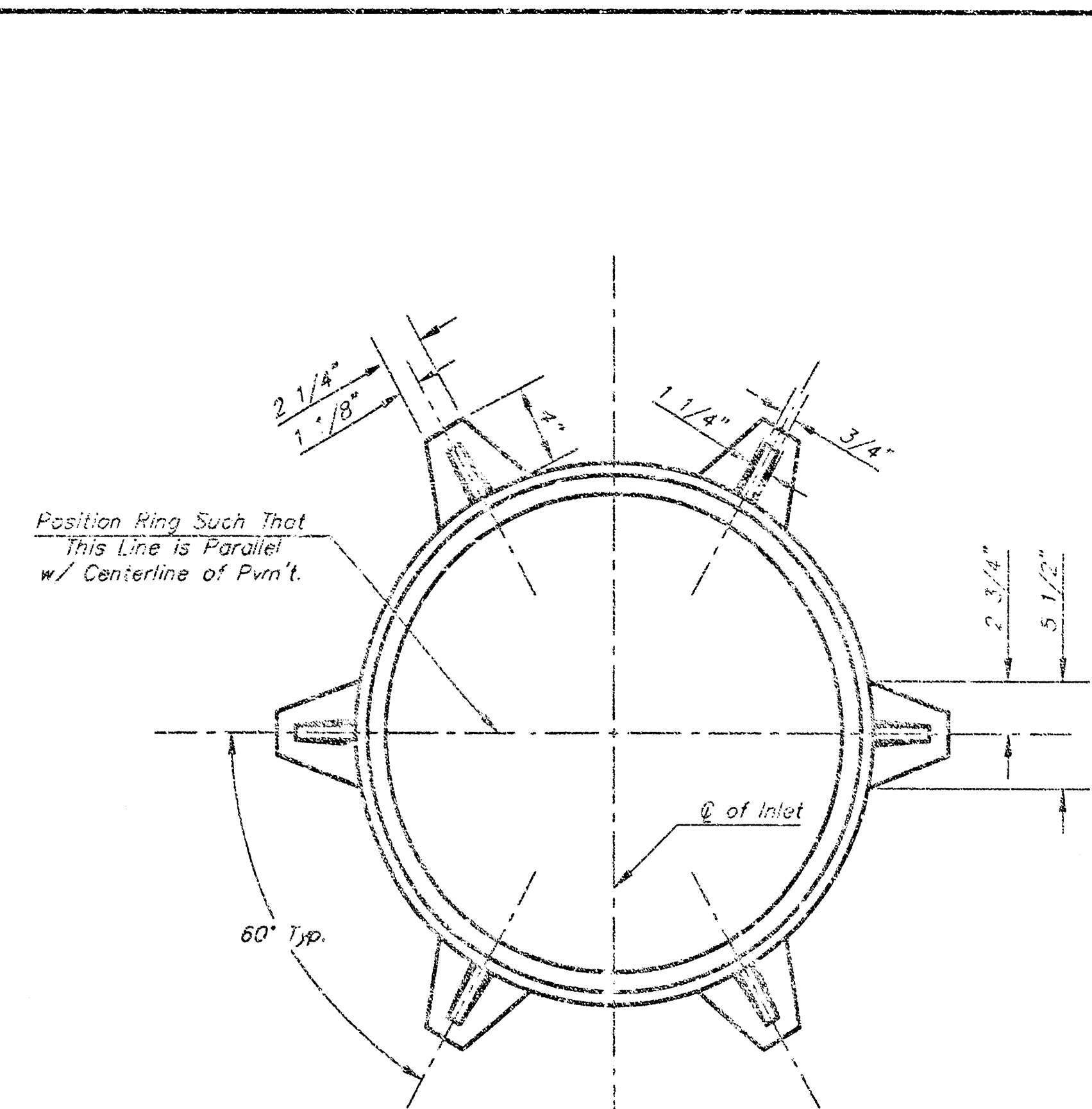
SECTION B-B



PRECAST SLAB AND FLOOR REINFORCING									
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	6	6'-7"	6	8'-7"	5	10'-7"	5	12'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-8"	8	4'-10"

WALL REINFORCING									
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②

* Field Bend or Cut Reinforcing as Required for Clearance.
 ① 4 (H = 12") (H = 21") Rounded down to nearest 0.5"
 ② H = 3"



STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.	
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.384	
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.514	
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.644	
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.774	
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.904	

Revised - Feb. 16, 1989

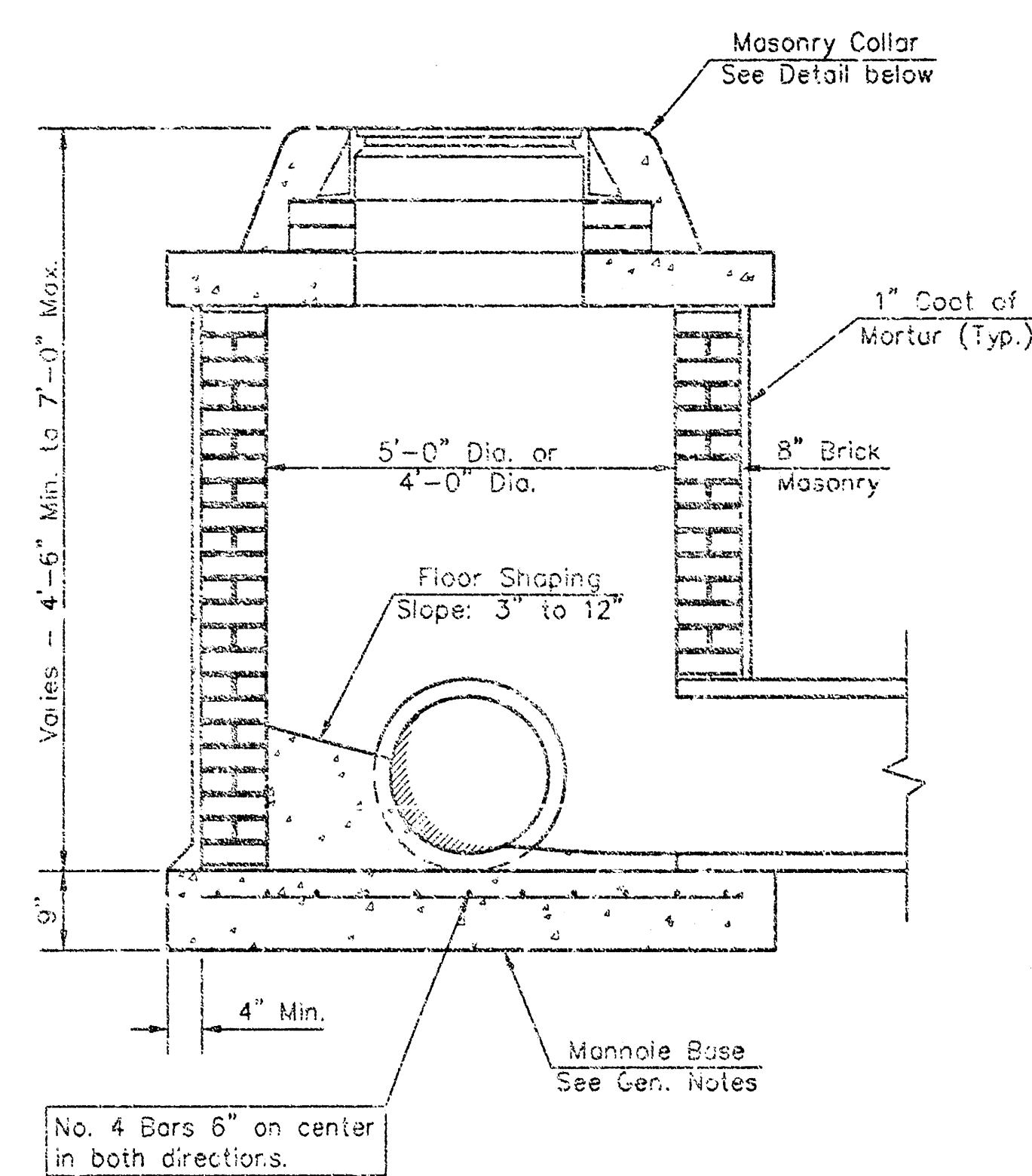
CITY OF WICHITA STANDARD TYPE 1A
Curb Inlet Details
 INLET OPENING = 8" X 5'-0"

BAUGHMAN COMPANY P.A.
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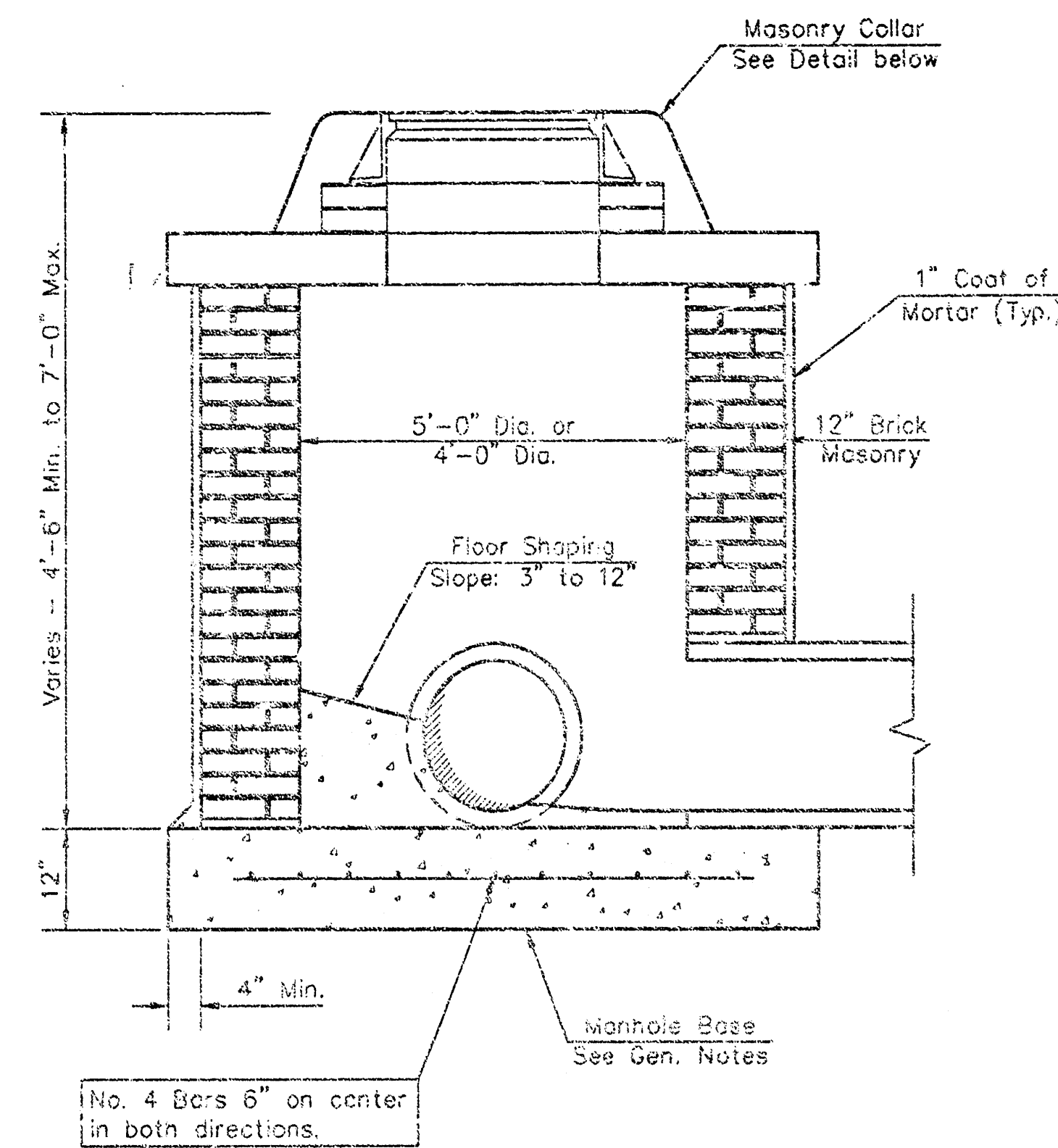
PROJECT NUMBER: _____

DESIGN: C.O.W. DRAWN: Staff APPROVED: _____ DATE: _____ SCALE: None

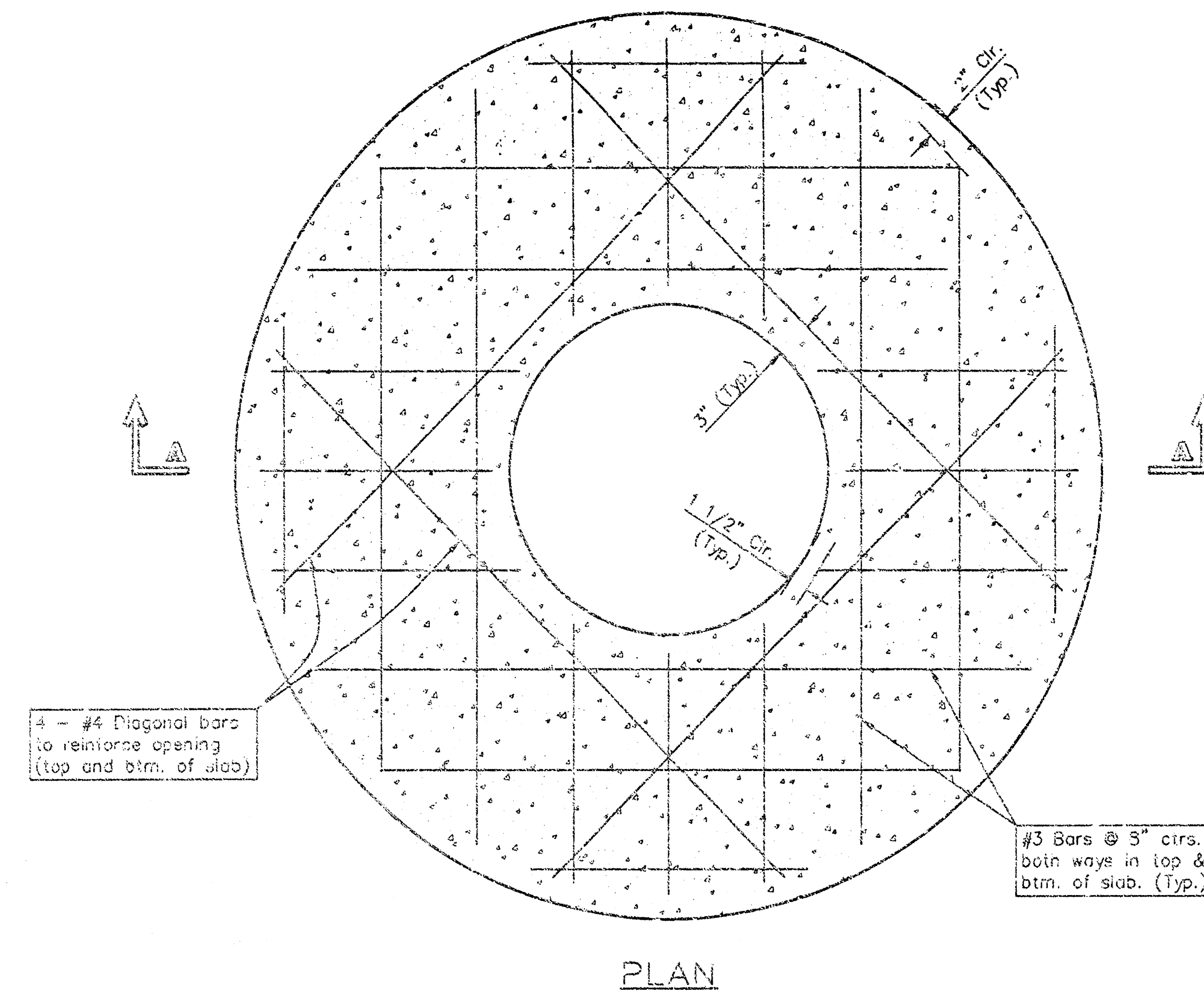
SHEET 6 OF 8



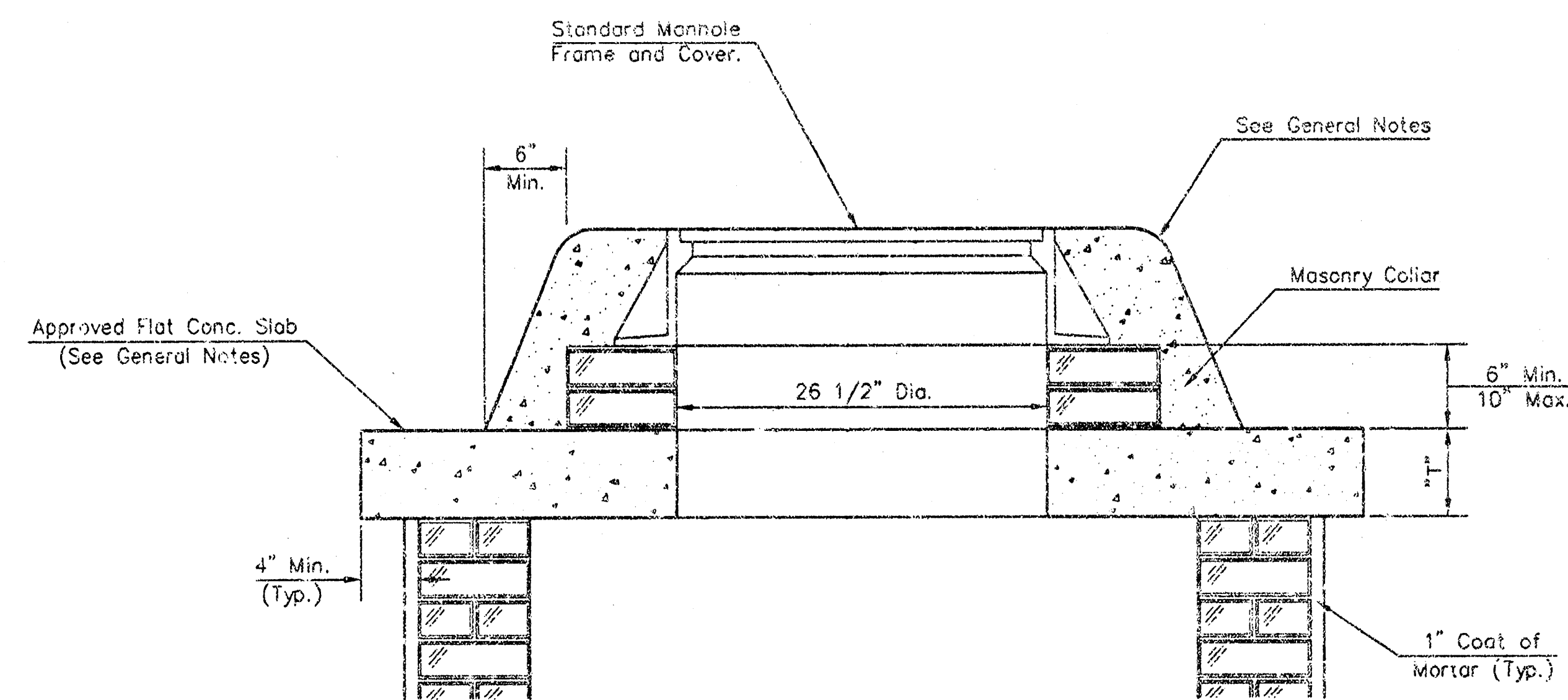
SHALLOW TYPE "A" MANHOLE



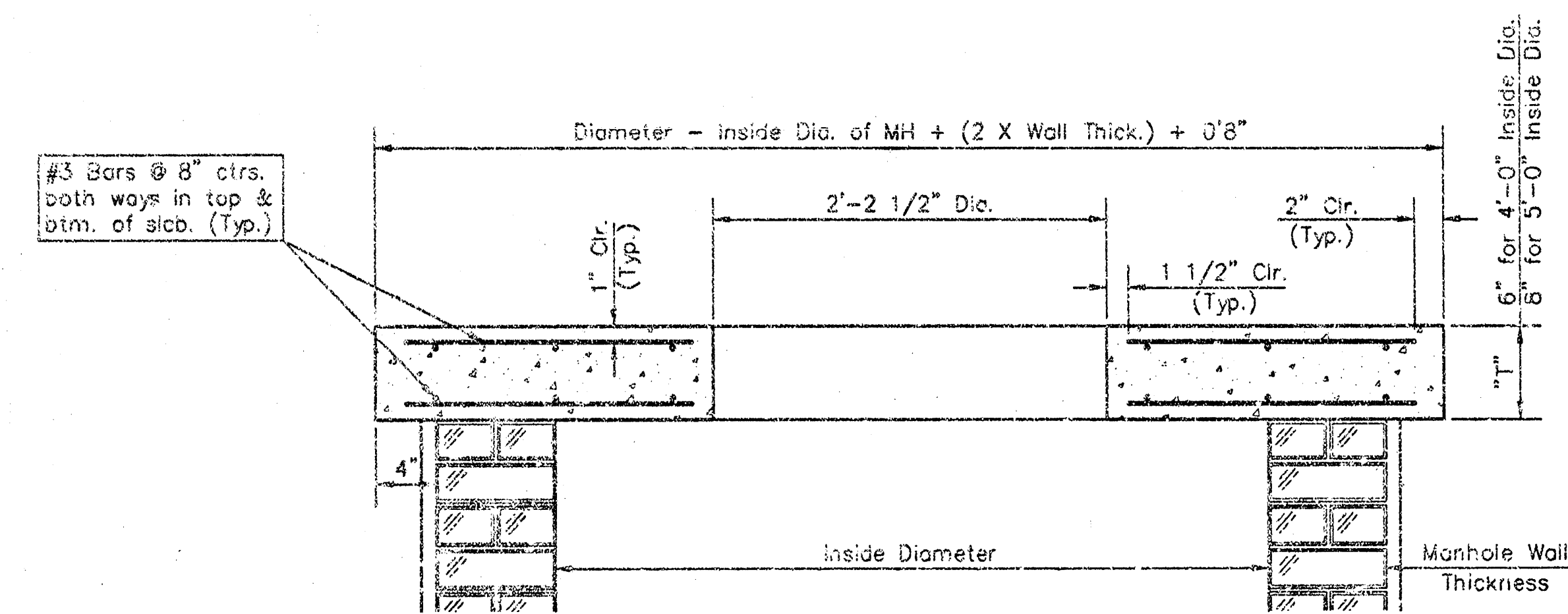
SHALLOW TYPE "B" MANHOLE



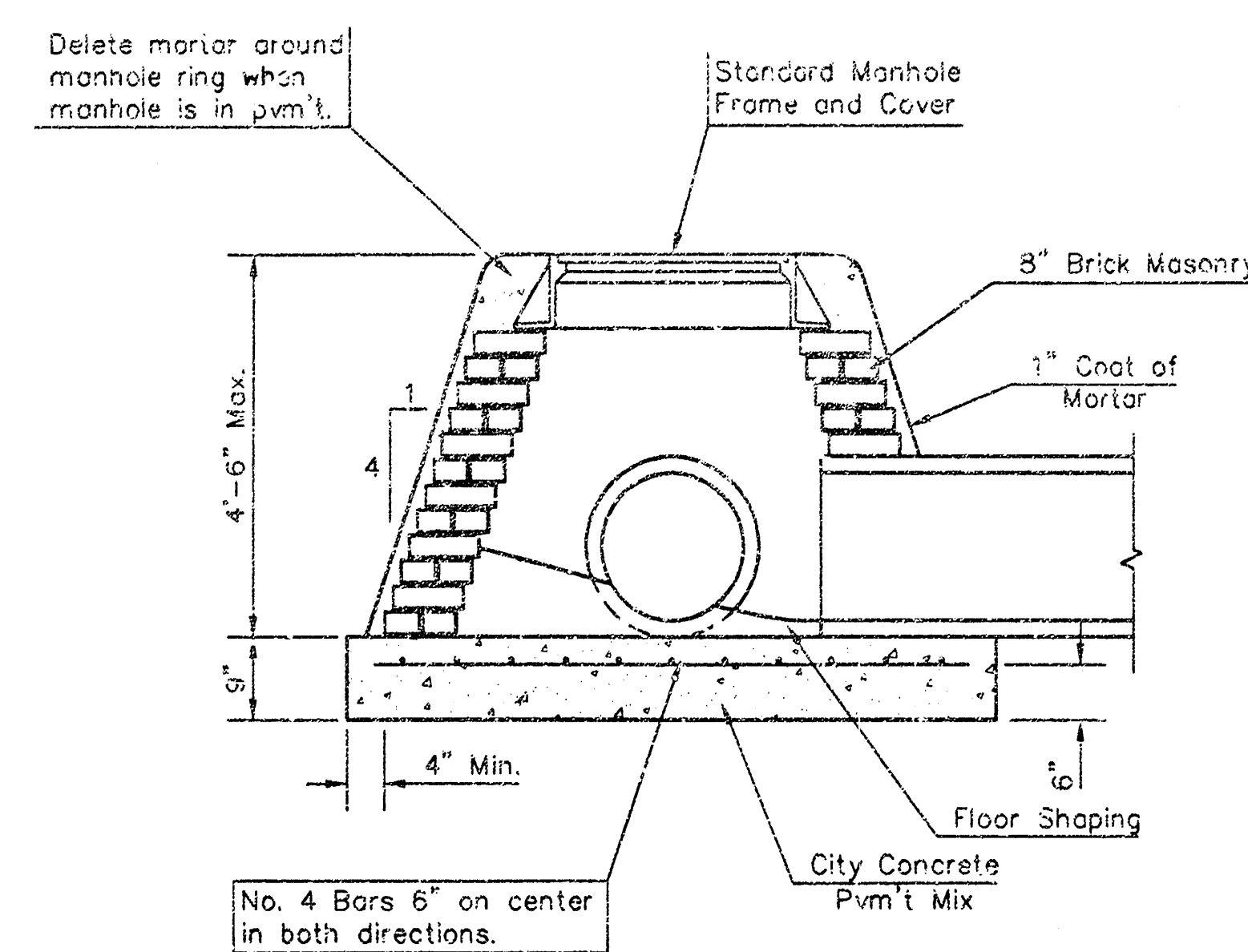
PLAN



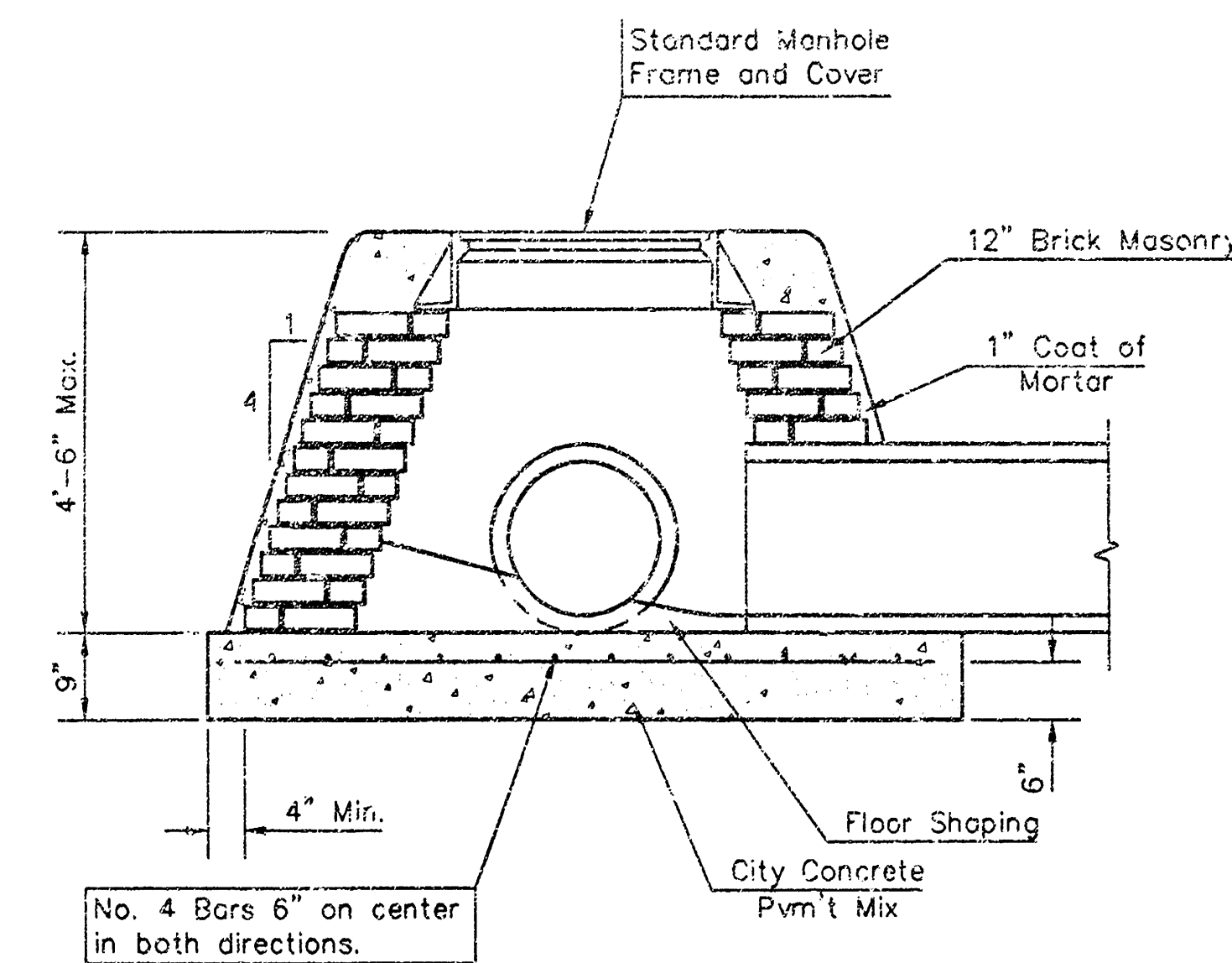
MASONRY COLLAR DETAIL



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 remest 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 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 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 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-B7.

CITY OF WICHITA, KANSAS			
Std. Manhole Detail			
TYPE "A" AND TYPE "B"			
ED BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			SHEET
DESIGN C.O.W.			7
DRAWN Staff			8
APPROVED			SCALE NONE
DATE			

January 22, 1901

1. The utility locations referenced on this survey were compiled by both field observation and information from the various utility companies. If any construction or relocation is planned for this site the various utility companies should be requested to verify their data used in the field prior to final design or construction. Any utilities not shown are due to no response to Kansas One Call "1-800-DIG-IT" filed on 12-23-13.
2. Subject property contains 211,501.1 Square Feet, or 4,857 Acres.
3. According to record location on PLM INM 2002/8 0025 b, effective date May 15, 1905, subject property lies within Zone B.
4. Subject property is presently zoned "Y(Multi-Family)".
5. The City of Wichita Planning Department and the City-County Planning Department needs for the project to be completed. The City-County Planning Department has been contacted for subject property to be connected to determine if there are any requirements to receive a building permit for subject property.

