

STORM WATER SEWER IMPROVEMENTS

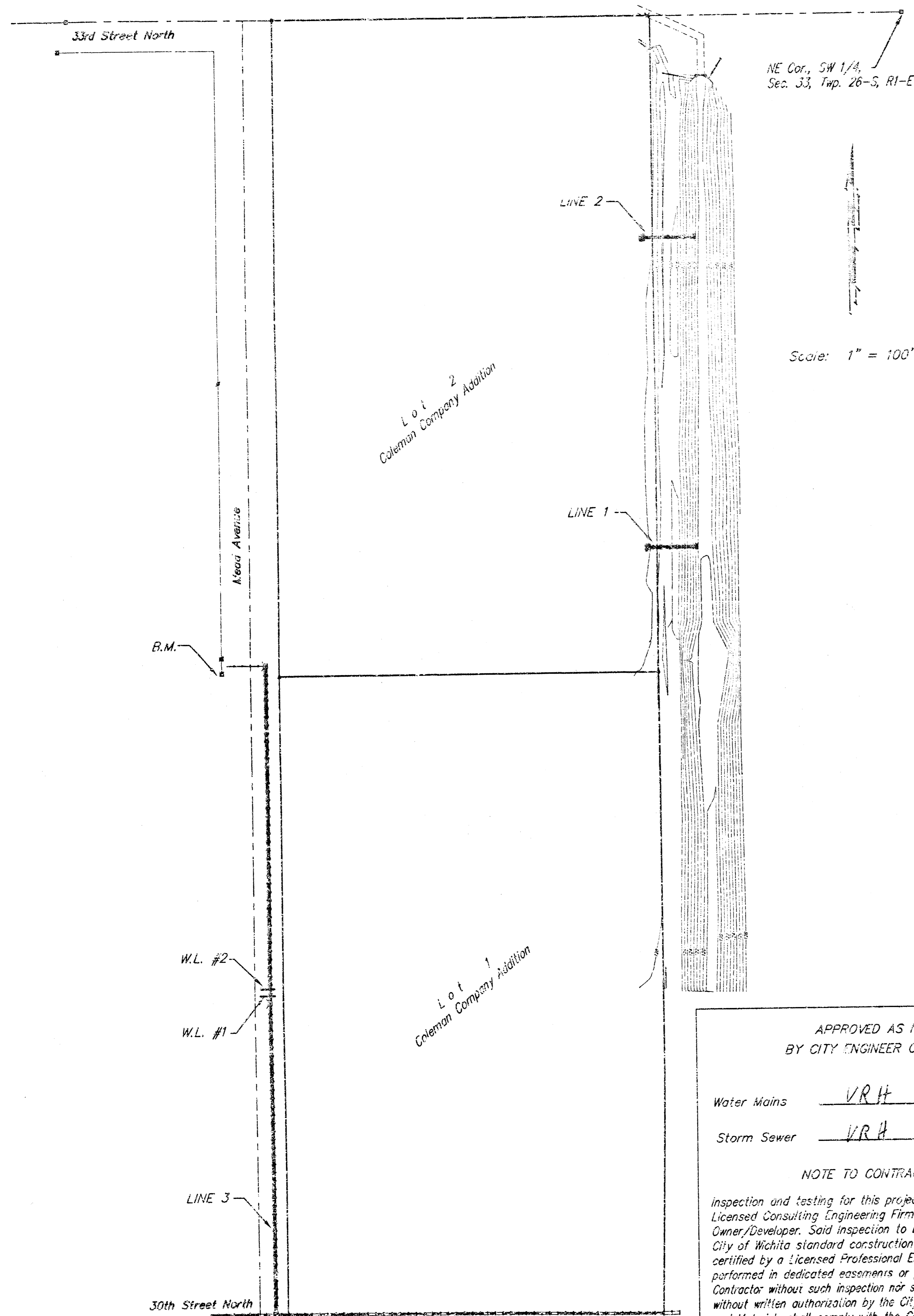
to serve
Coleman Co. Addition

Lot #
CITY OF WICHITA, KANSAS

Michael M. Lindebak, P.E. City Engineer

Private Project Number

1116 PPS (807809)
808 PFW (807803)



Scale: 1" = 100'

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	667-2470
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the Contractor must notify the following in case of an emergency:

Cox Communications	262-0651
Kansas Gas Service	383-8600
Kansas Gas & Electric Company	383-5800
Peoples Gas Company	942-2350
Southwestern Bell Telephone Company	1-800-344-7233
City of Wichita Water Dept.	258-4909
City of Wichita Traffic Engineering	269-4448
- 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 15-20-5 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 adjoining 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 re-established 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 buried 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/applicant. Unit repair prices are available from the City at 258-4418. 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.
- All water mains and appurtenances shall be installed in accordance with City of Wichita, Kansas Standard Specifications for Water Main Installations No. 14533.
- Opening and closing of water valves shall be done slowly to prevent damage to the water distribution system from water hammer. All valves closed by the contractor must be reopened as new construction permits. Project inspector must ascertain that any valve closed by the contractor is reopened. Contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.
- Properties within the project limits may have underground sprinkler system in public right-of-way which conflict with new construction. The Contractor will be required to repair or replace any system disturbed by project construction. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered INCIDENTAL to other items in the Project.

BOOKED
6-17-02
MCS
C-217

Benchmark

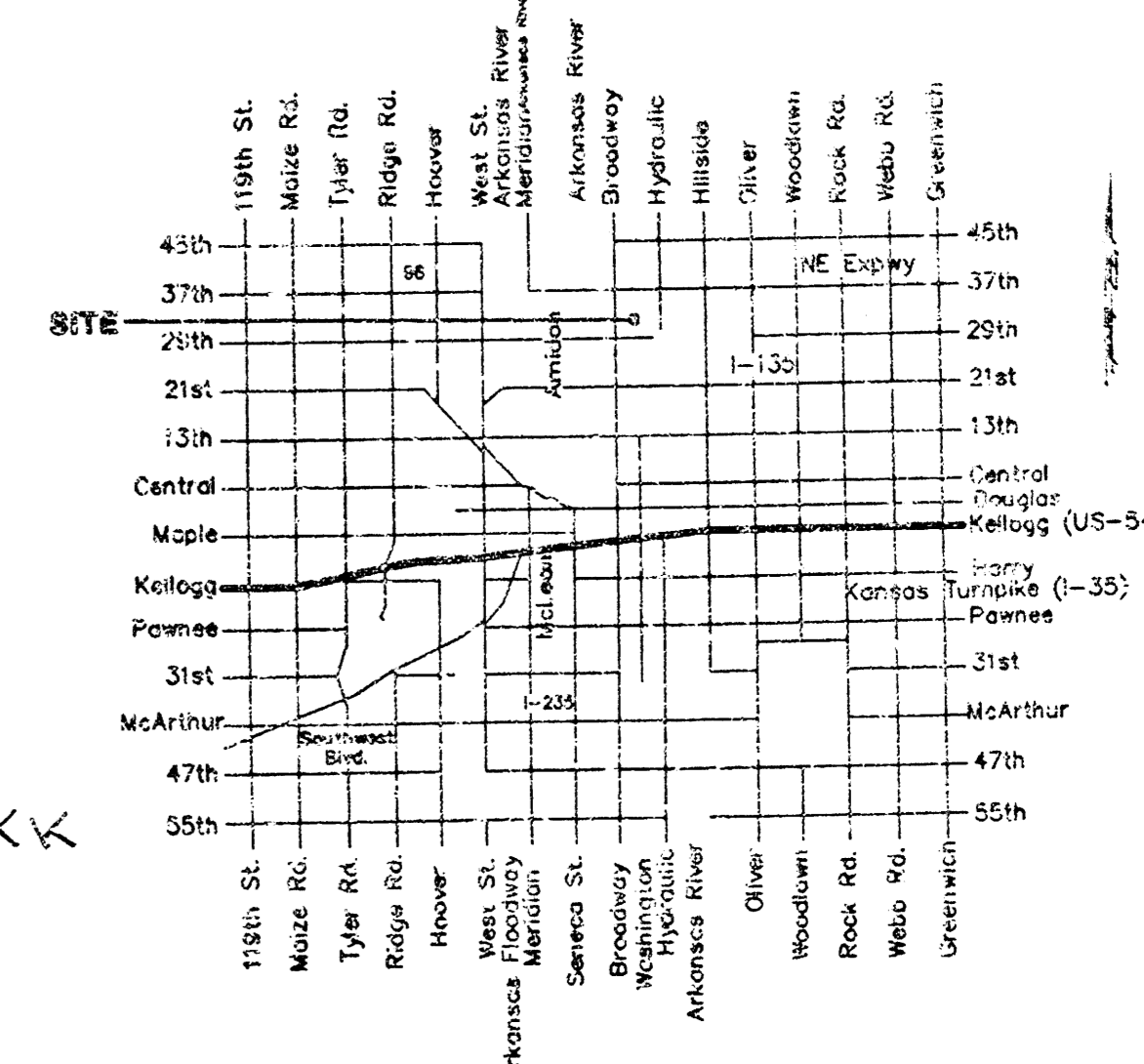
"□" Cut Located in the Top of Curb on the West Side of Wood Ave. adjacent to the common lot line between Lots 1 & 2, Coleman Company Addition.

Elevation = 127.92 (City Datum)

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Line 1 & 2	2
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Location Map



As Built 8/01 KK

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Water Mains VRH 6/8/01
Storm Sewer VRH 6/8/01

NOTE TO CONTRACTORS

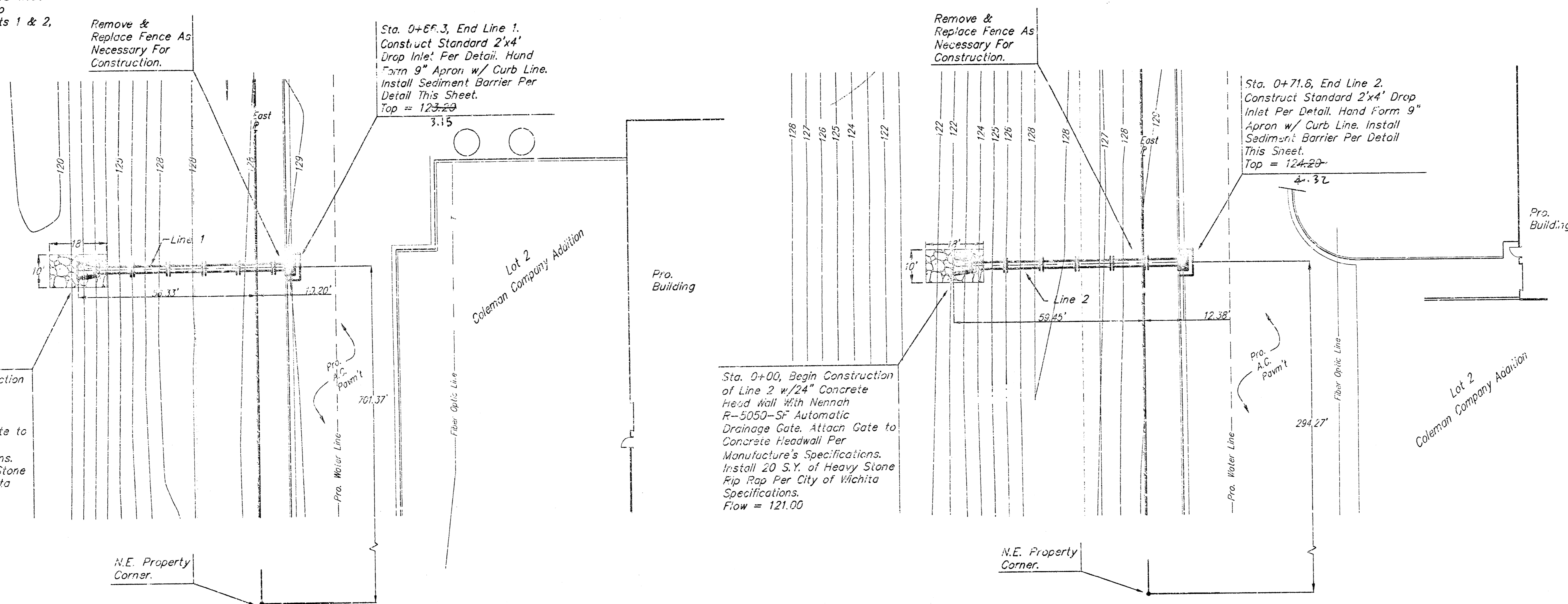
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work 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).



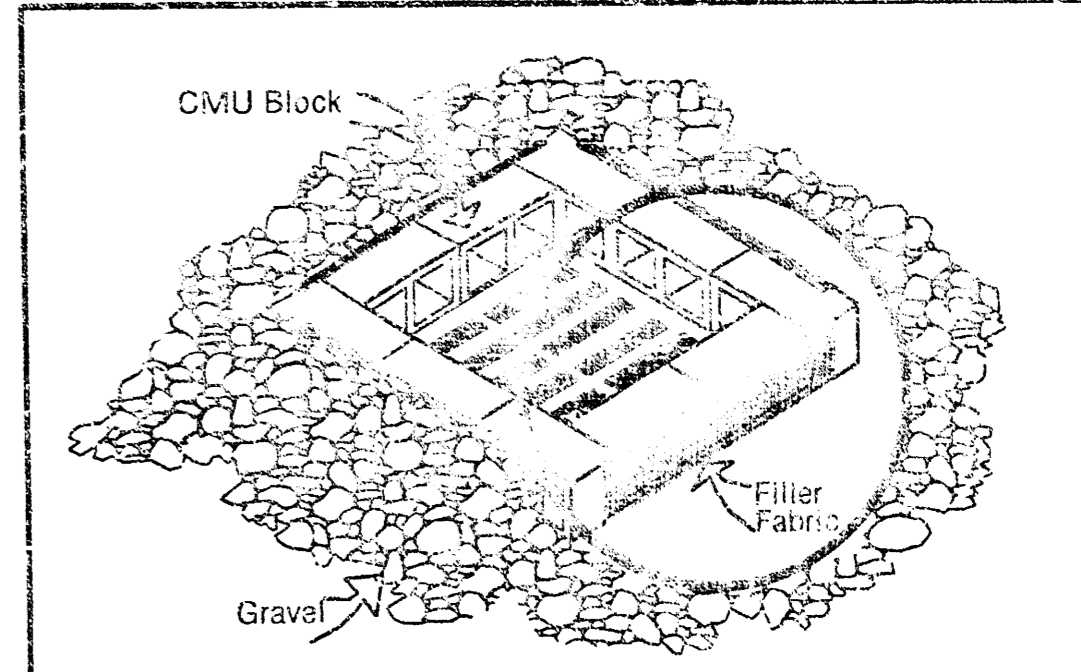
06/08/2001

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-282-3271 • 316-282-3272 • WICHITA, KANSAS 67211
P. LENGTHY WORKS/LSWSOCV/DMS - 502

BENCHMARK:
 Located on the Top of Curb West Side of Head Ave. Adjacent to Common Lot Line Between Lots 1 & 2, Coleman Company Addition. Elev. 127.92 (City Datum)

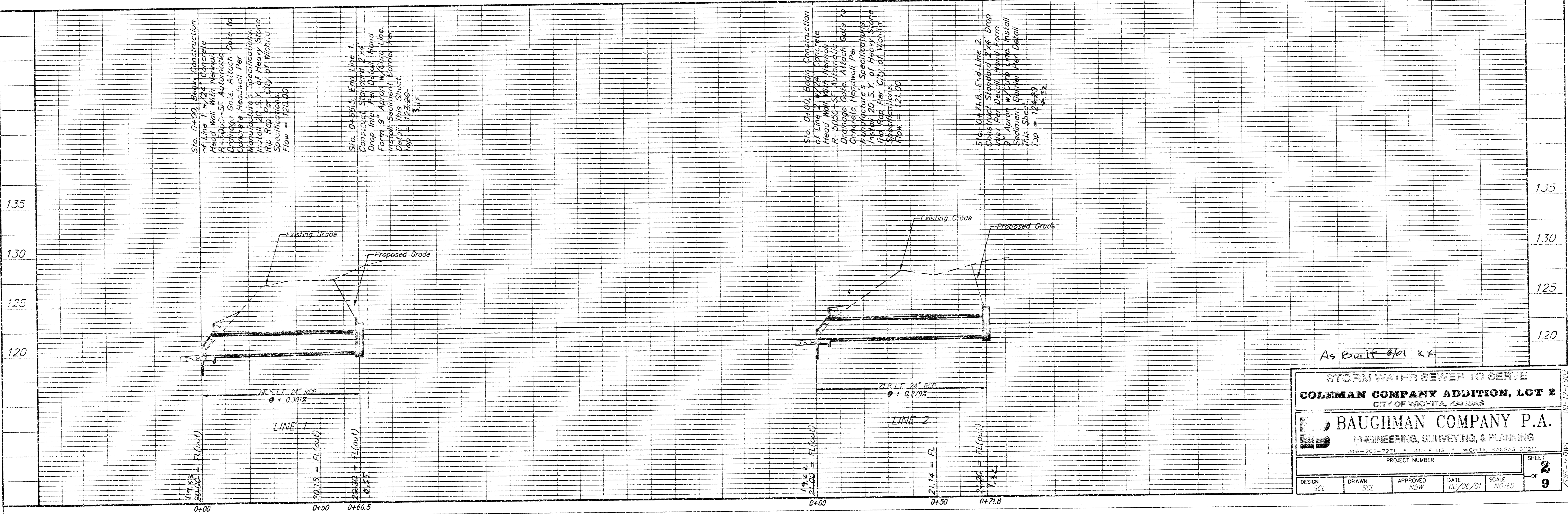


SCALE:
 1" = 20' HORIZONTAL
 1" = 5' VERTICAL
 • = IRON



NOTES:
 Frequent maintenance is required to minimize short-circuiting and to remove sediment deposits and buildup.
 Wrap filter fabric around all CMU block and backfill with 2"-3" gravel rock to allow sediment deposits.
 DO NOT cover inlet or grate with filter fabric.

INLET PROTECTION
 Storm Drain with Gravel Apron



As Built 8/01 KK

**STORM WATER SEWER TO SERVE
 COLEMAN COMPANY ADDITION, LOT 2
 CITY OF WICHITA, KANSAS**

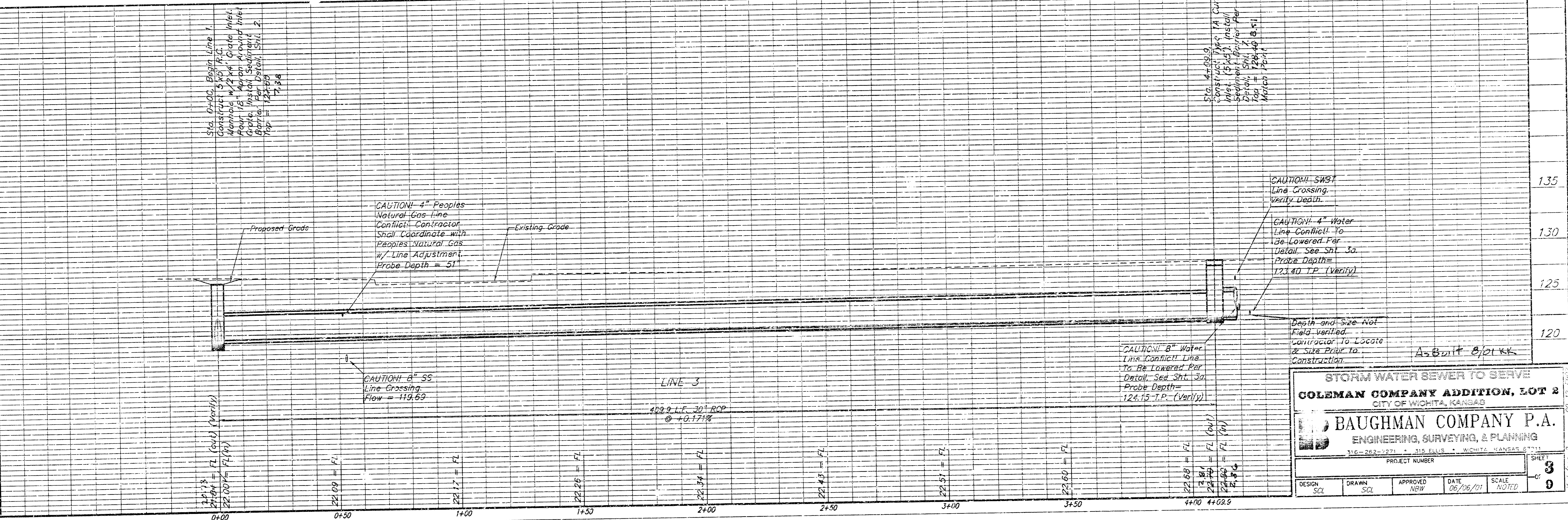
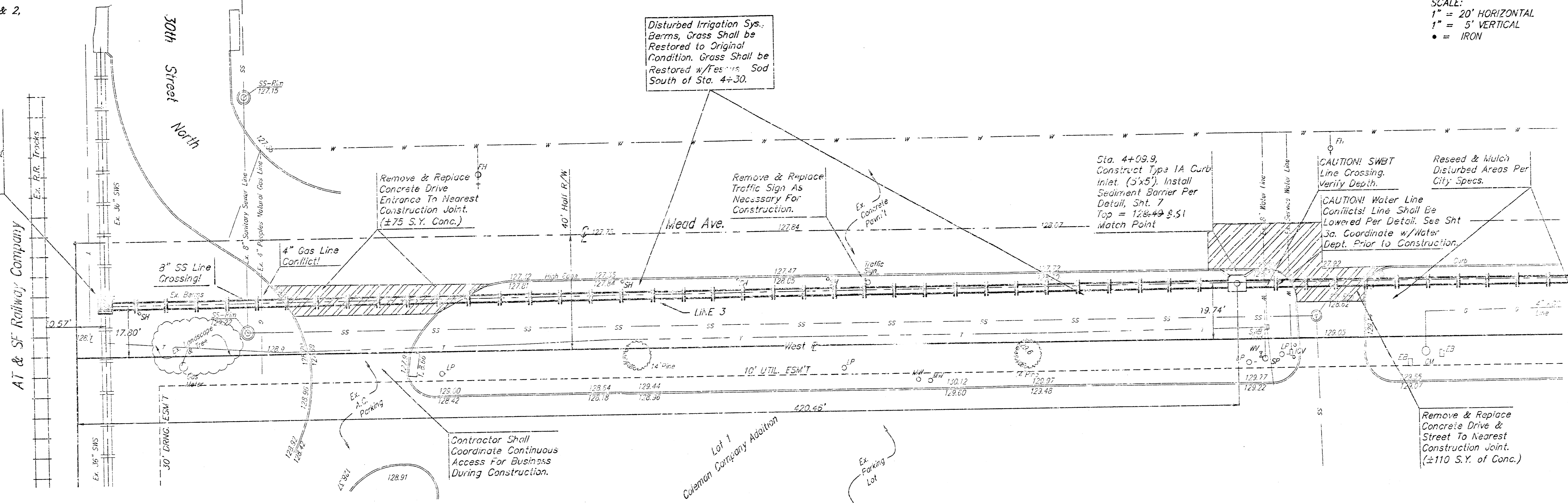
BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-267-7271 • 312 E. LUS • WICHITA, KANSAS 67211

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
SCJ	SCJ	NW	06/06/01	NOTED	2 OF 9

BENCHMARK:
 "1" Located on the Top of Curb West Side of Mead Ave. Adjacent to Common Lot Line Between Lots 1 & 2, Coleman Company Addition. Elev. 127.52 (City Datum)

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

Sta. 0+00, Begin Line 1. Construct 5x5' R.C. Manhole w/2'x4' Grate Inlet. Four 18" Apron Around Inlet. Grate. Install Sediment Barrier Per Detail, Sht. 2. Top = 127.52



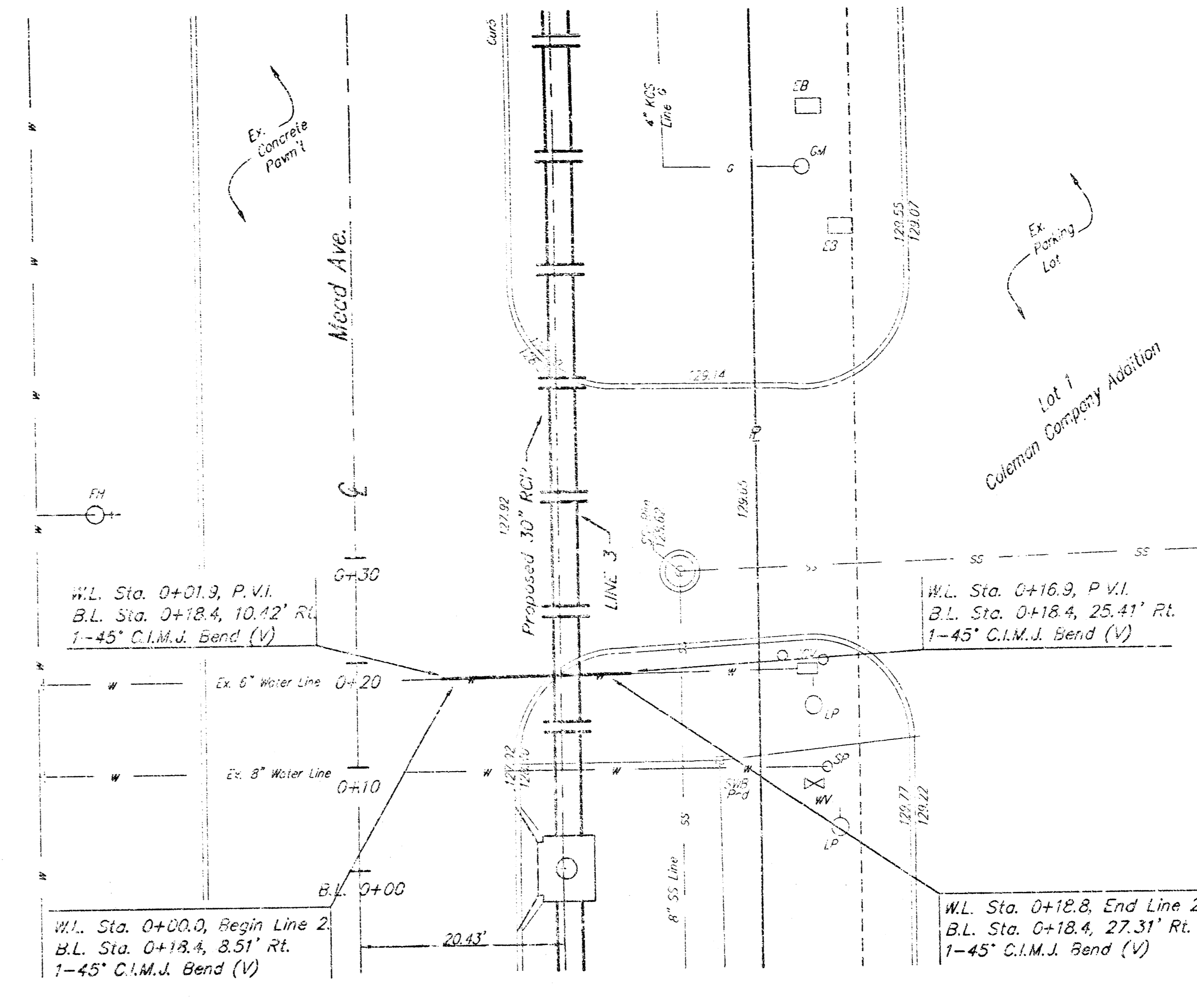
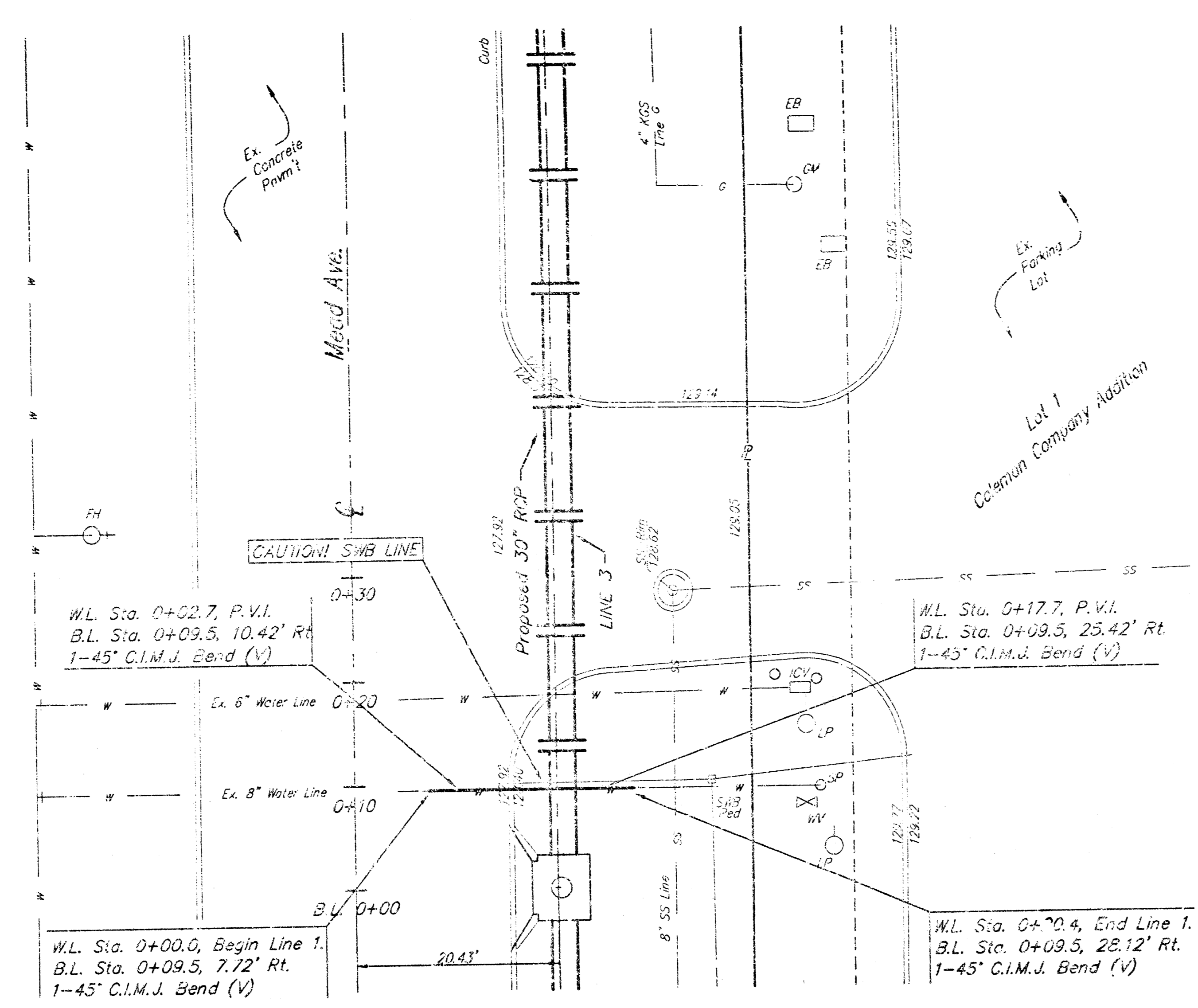
STORM WATER SEWER TO SERVE
COLEMAN COMPANY ADDITION, LOT 2
 CITY OF WICHITA, KANSAS

BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 316-262-1271 • 316 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER: _____ SHEET 3 OF 9

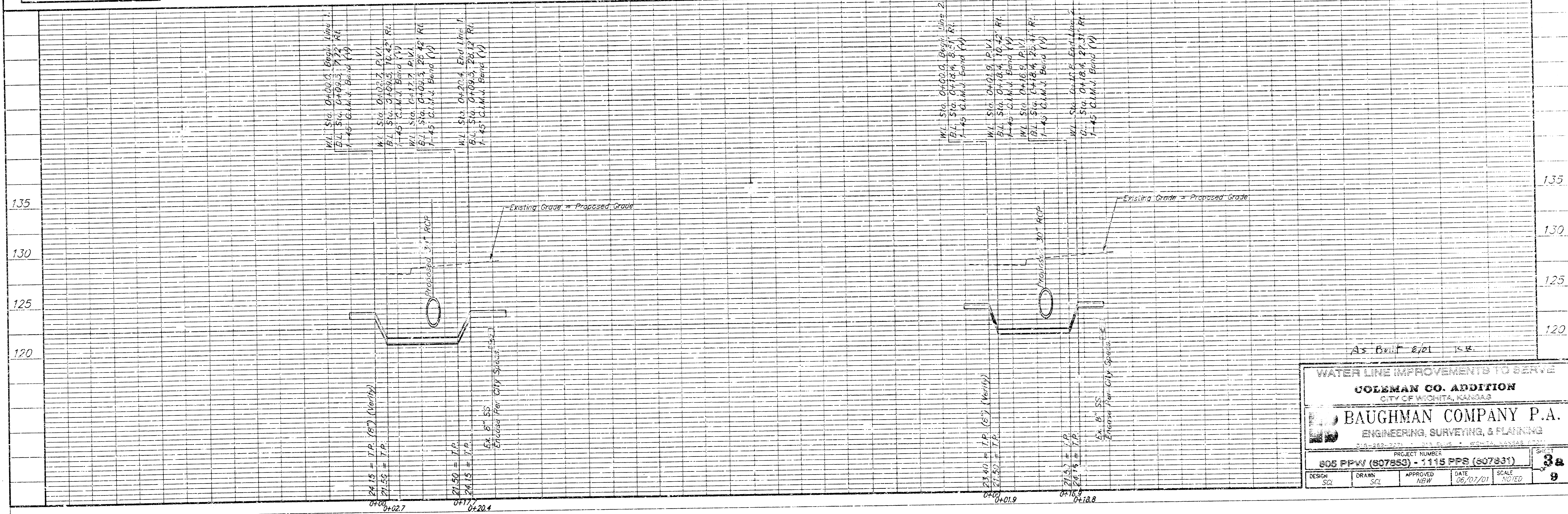
DESIGN: SCL	DRAWN: SCL	APPROVED: NRW	DATE: 06/06/01	SCALE: NOTED
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BENCHMARK:
 "C" Located on the Top of Curb West Side of Mead Ave. Adjacent to Common Lot Line Between Lots 1 & 2, Coleman Company Addition, Elev. 127.92 (City Datum)



SCALE:
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL
 • = IRCV

Note:
 All Pavement Removed For Construction Shall Be Saw Cut to the Nearest Joint and Replaced.



As Built 8/21 15 R

WATER LINE IMPROVEMENTS TO SERVE
COLEMAN CO. ADDITION
 CITY OF WICHITA, KANSAS

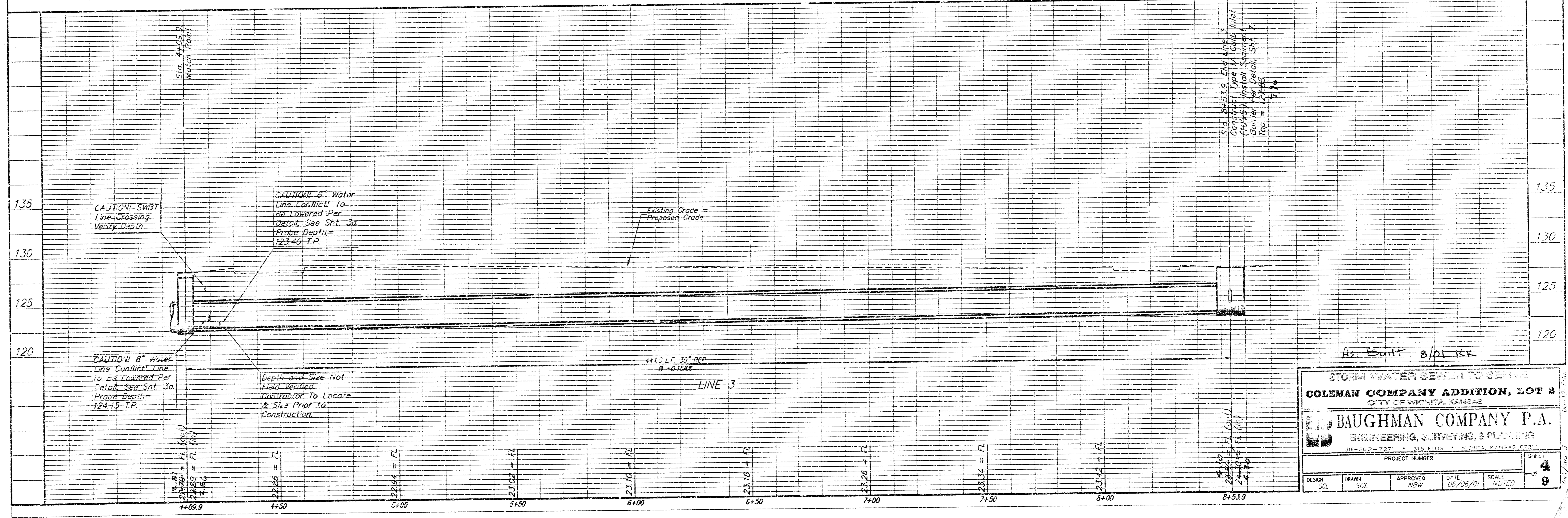
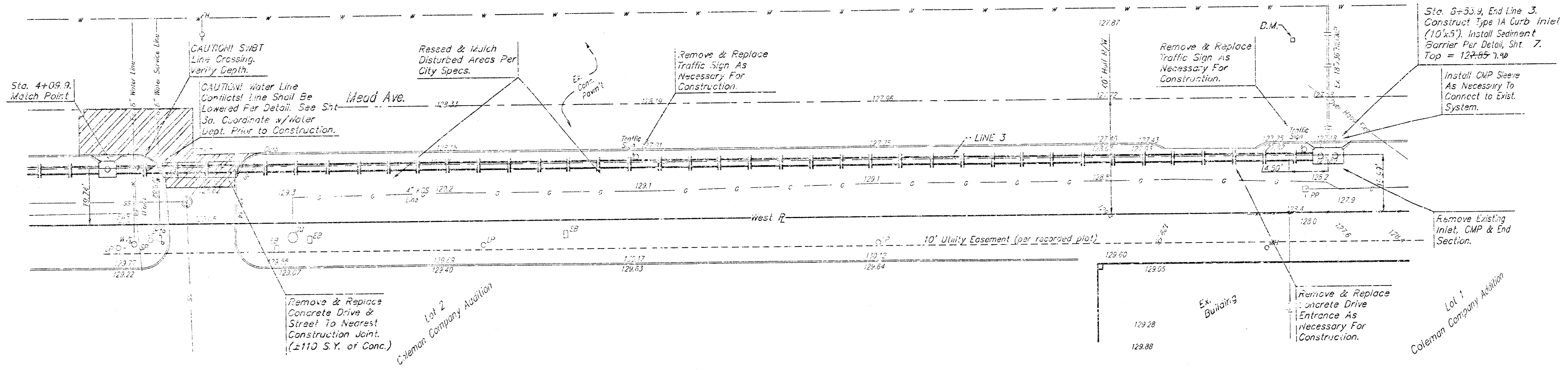
BAUGHMAN COMPANY P.A.
 ENGINEERING, SURVEYING, & PLANNING
 235-252-2271 • 1115 S. E. 10th • WICHITA, KANSAS 67202

PROJECT NUMBER: **805 PPW (S07853) - 1115 PPS (S07831)**

DESIGN: SCL	DRAWN: SCL	APPROVED: NEW	DATE: 06/07/01	SCALE: NOTED	SHEET: 38
					9

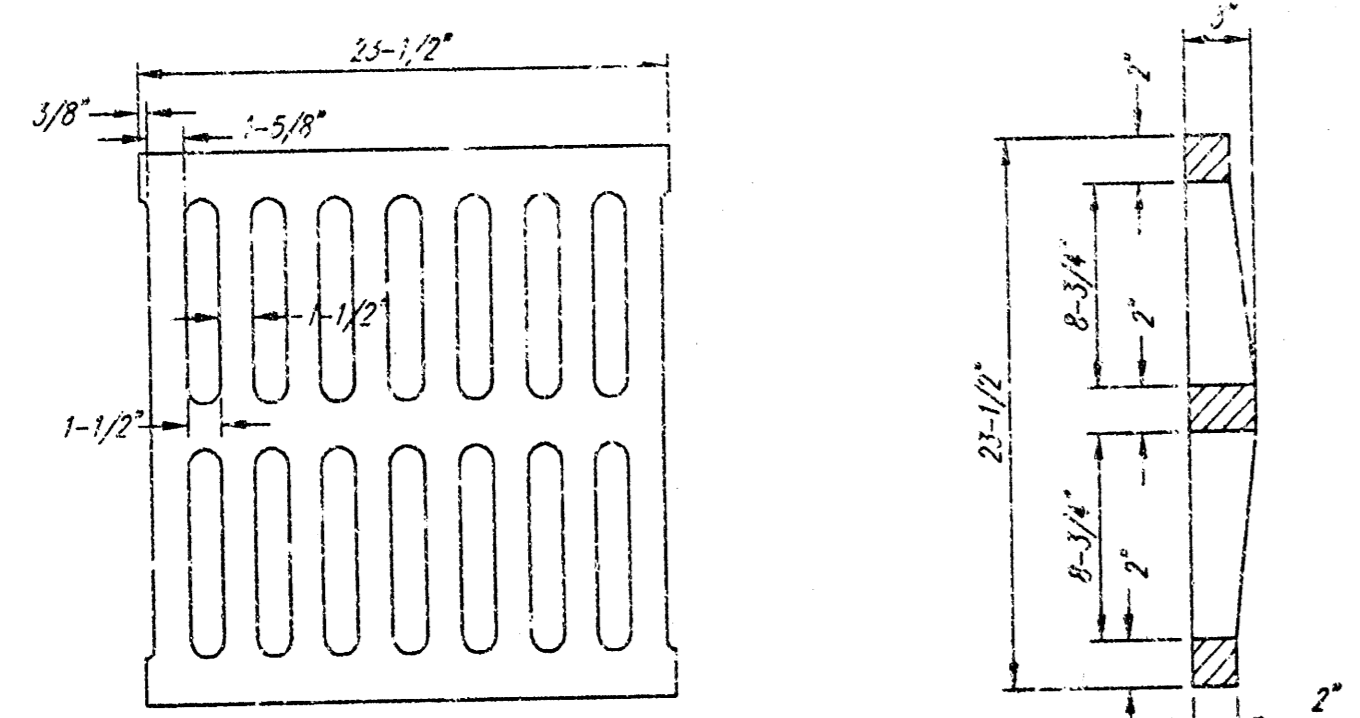
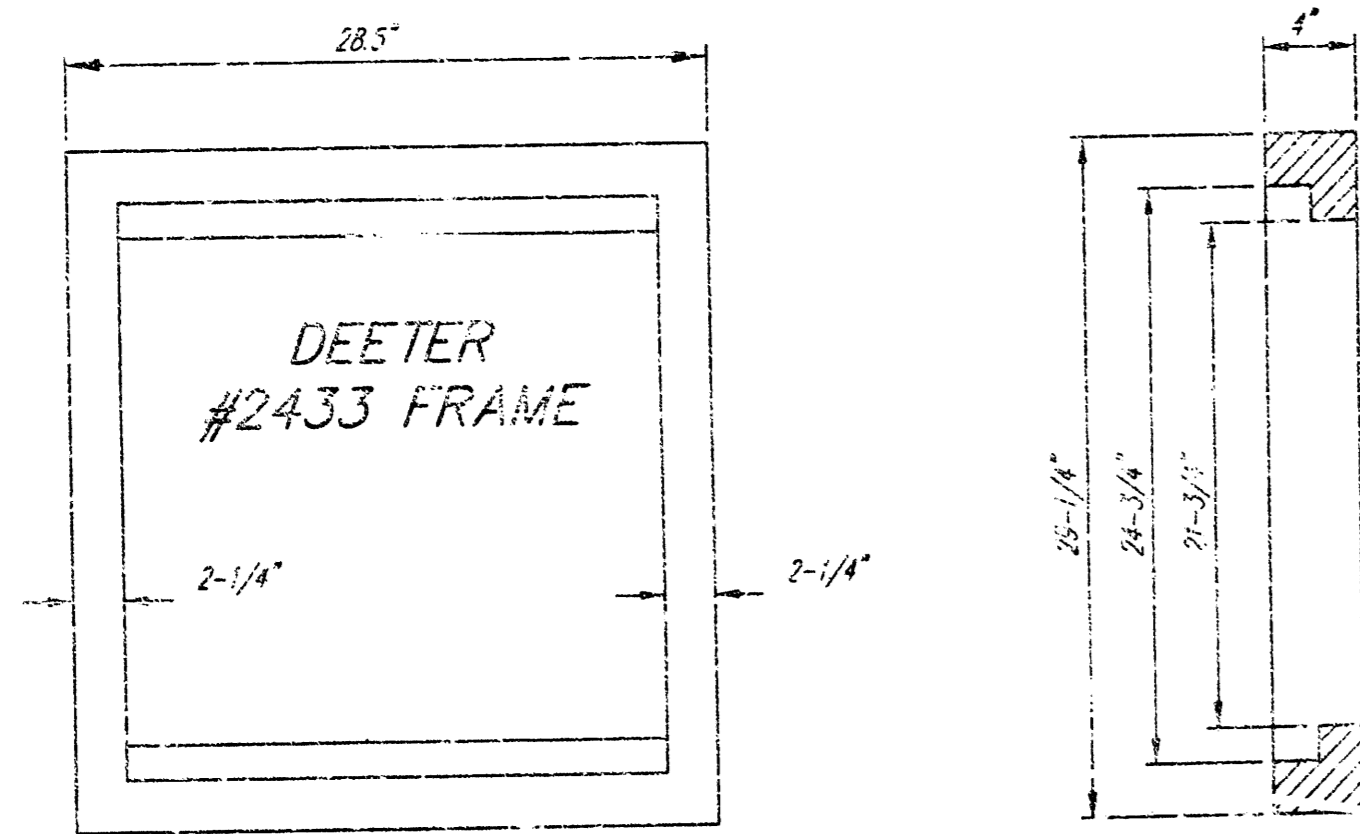
BENCHMARK:
 "1" Located on the Top of Curb West Side of Mead Ave. Adjacent to Common Lot Line Between Lots 1 & 2, Coleman Company Addition. Elev. 127.92 (City Datum)

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



As Built 8/01 KK

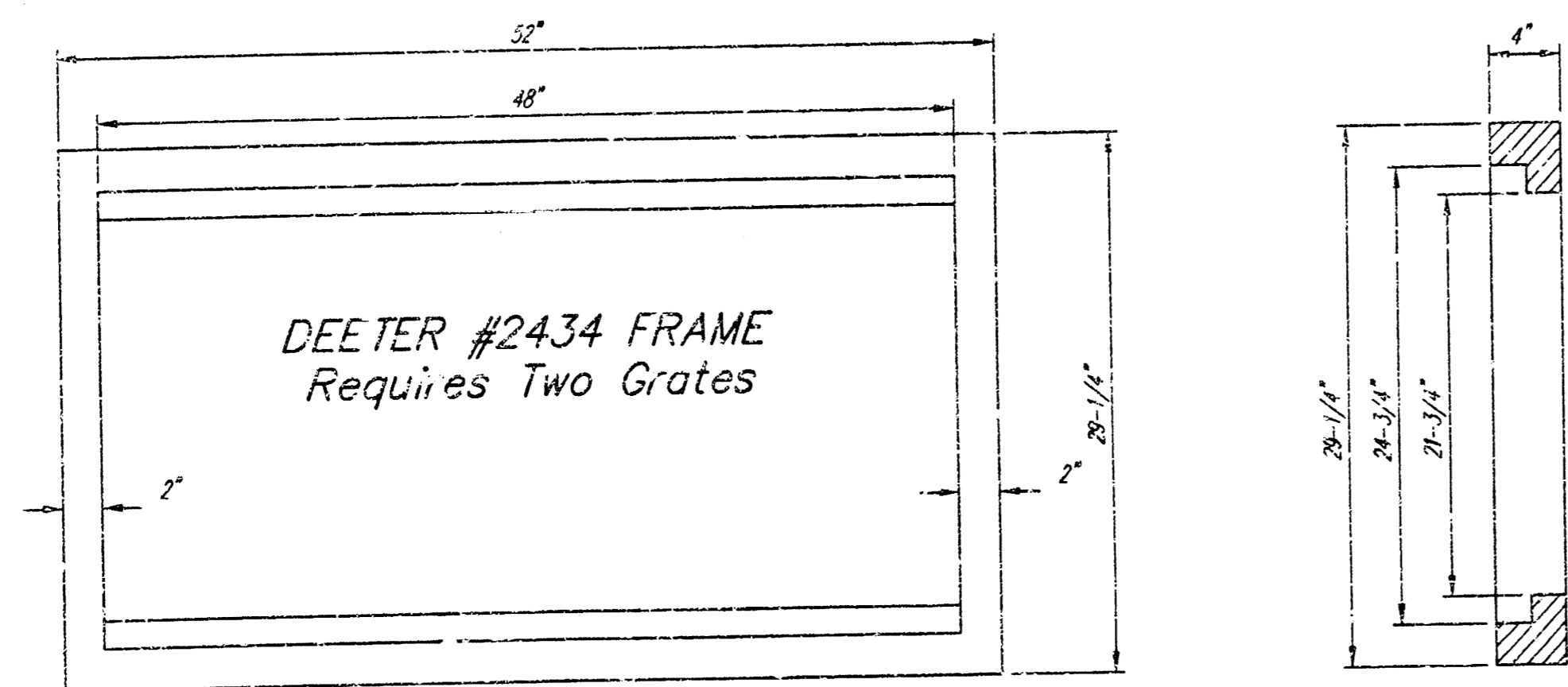
STORM WATER SEWER TO SERVE			
COLEMAN COMPANY ADDITION, LOT 2			
CITY OF WICHITA, KANSAS			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
316-260-2271 • 316-260-1111 • WICHITA, KANSAS 67201			
PROJECT NUMBER			SHEET
DESIGN	DRAWN	APPROVED	DATE
SC	SCL	NGW	08/06/01
SCALE			NOTED
			9



DEETER #2433 GRATE

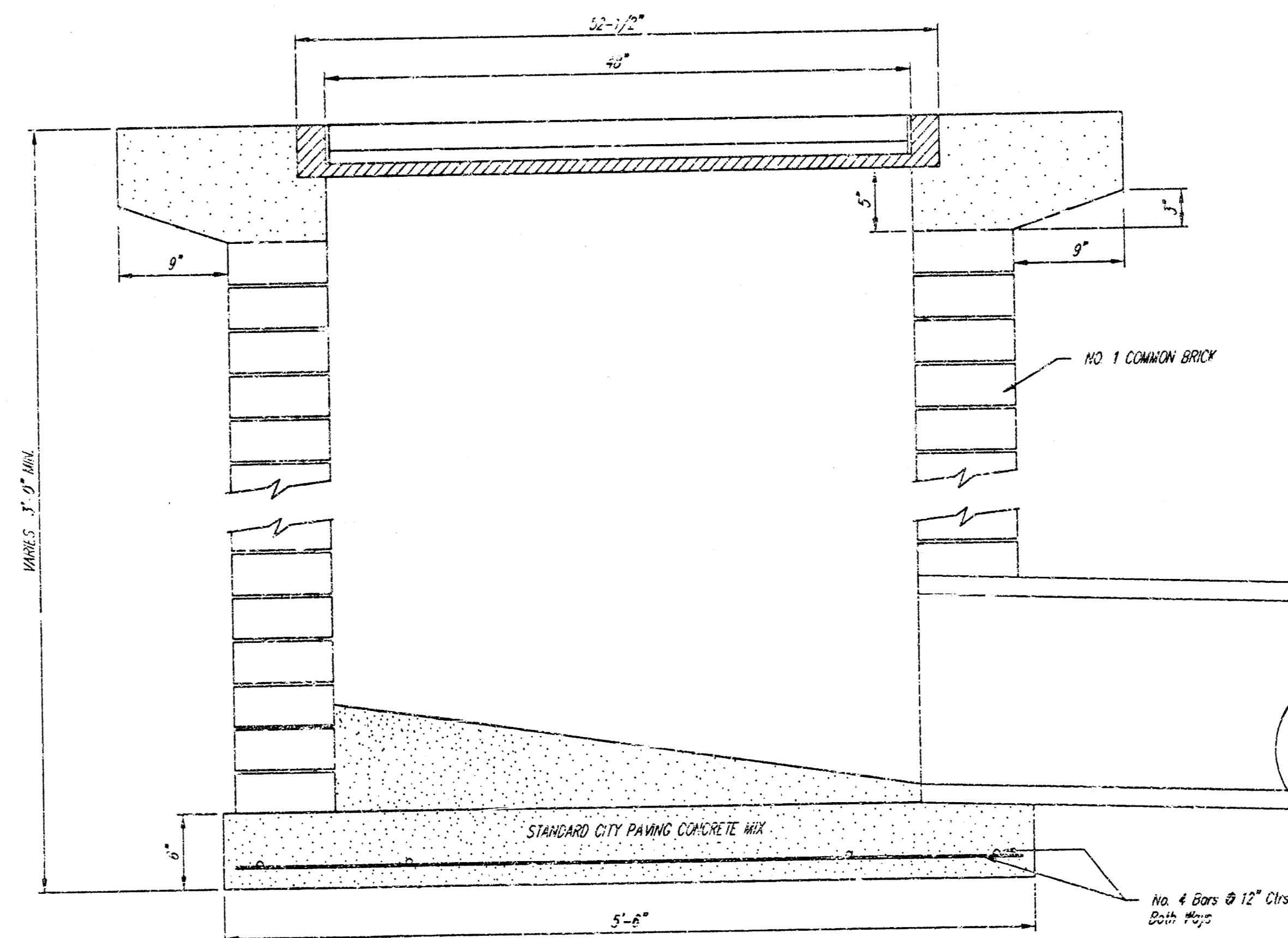
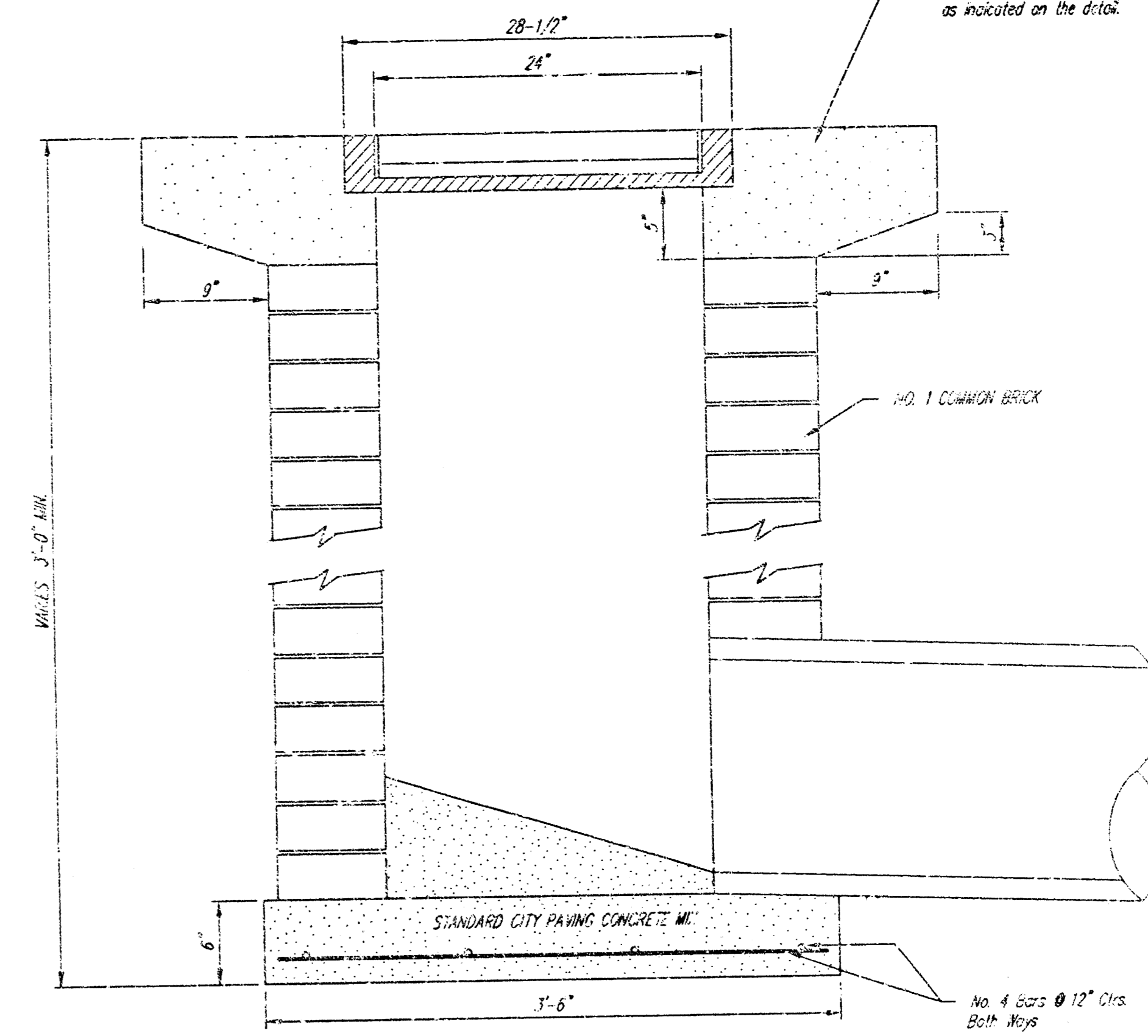
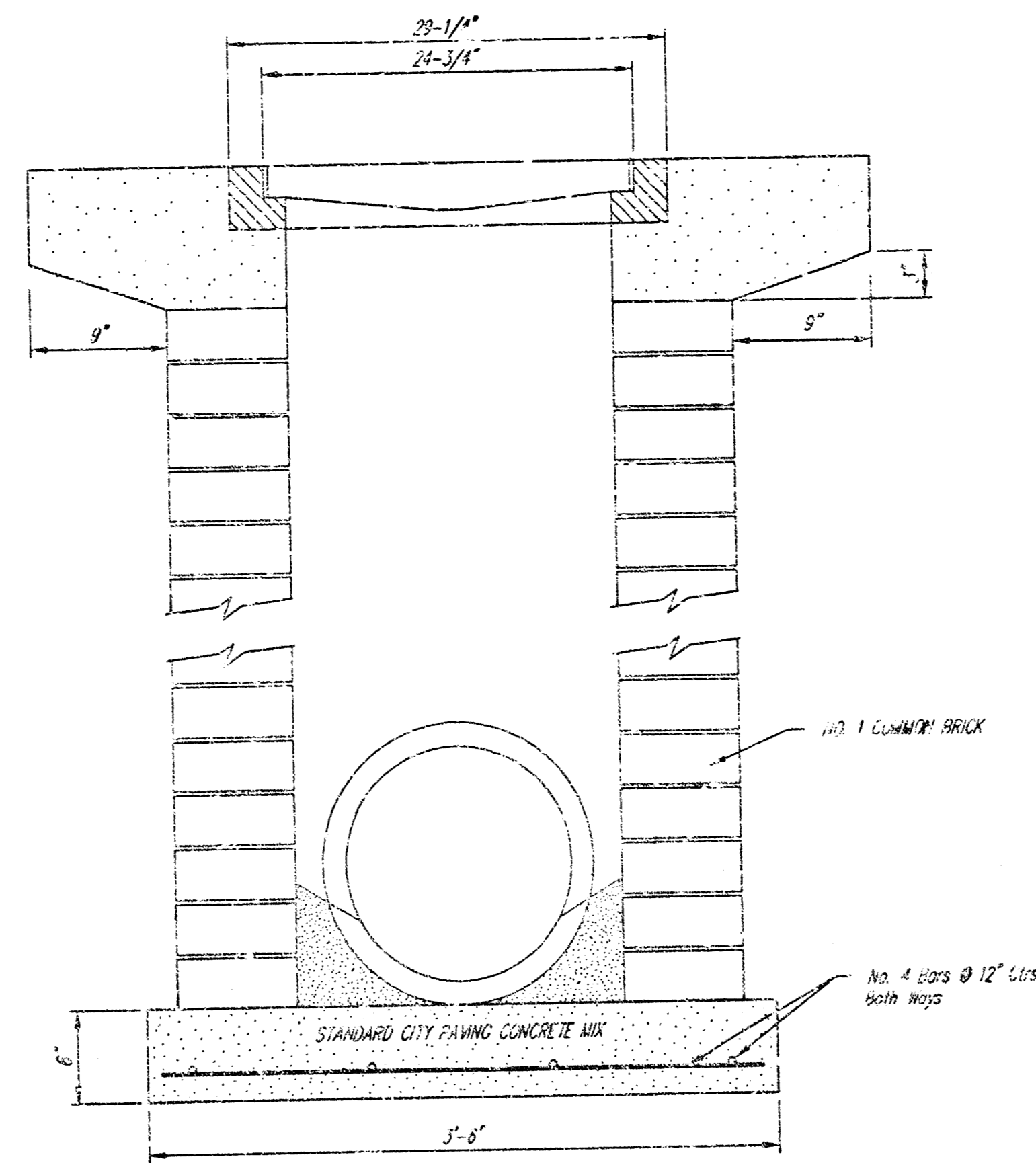
24" x 24" Frame and Grate Detail

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters of least 1" in height. Other marking methods may be approved by the engineer.

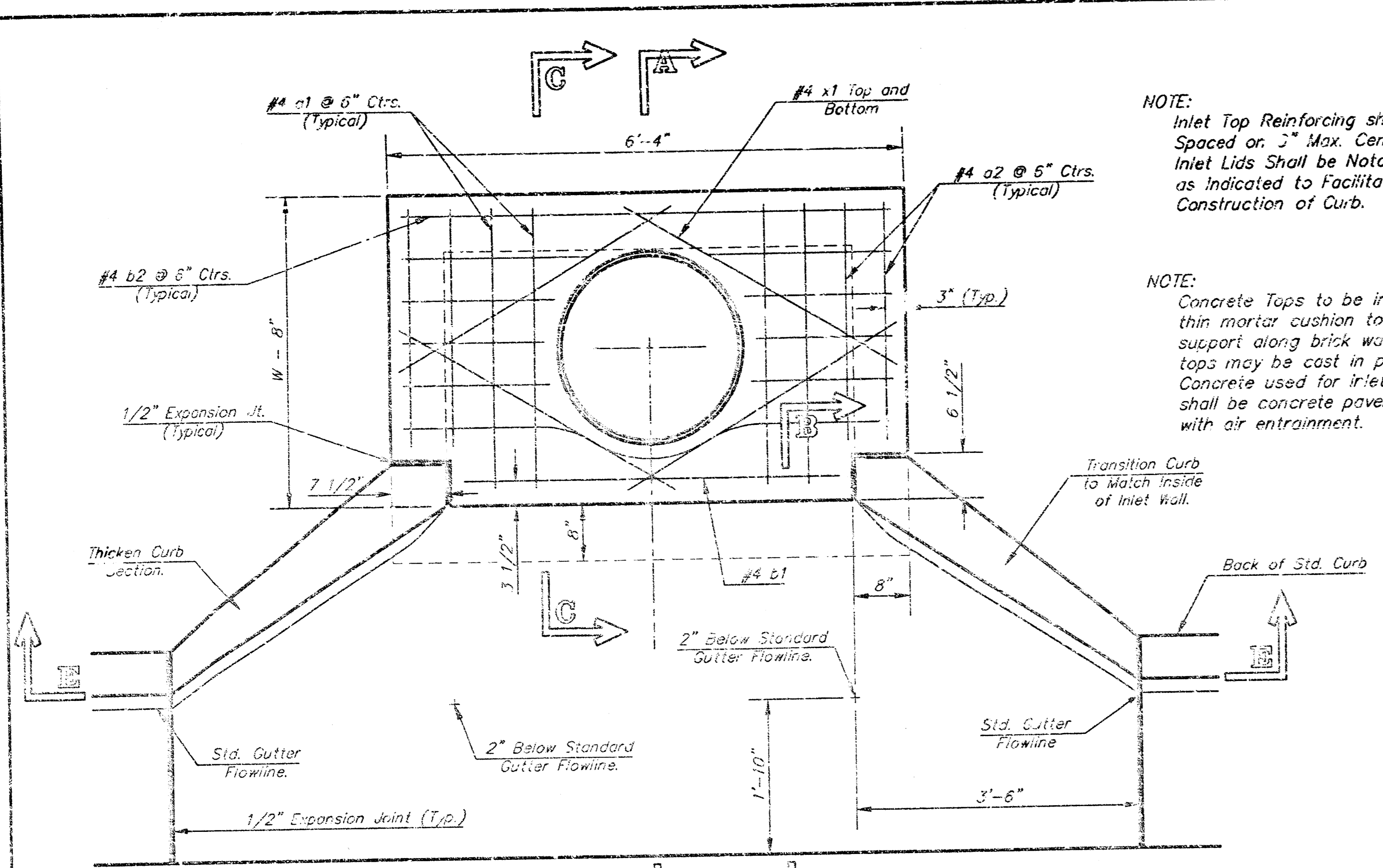


DEETER #2434 FRAME
Requires Two Grates

Double 24" x 24" Frame Detail



City of Wichita Standard			
Drop Inlet			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
116-282-7221 • 315 E. JULIA • WICHITA, KANSAS 67201			
PROJECT NUMBER		SHEET	
		5	
DESIGN	DRAWN	APPROVED	DATE
C.O.W.	Staff		
SCALE		OF	
		9	

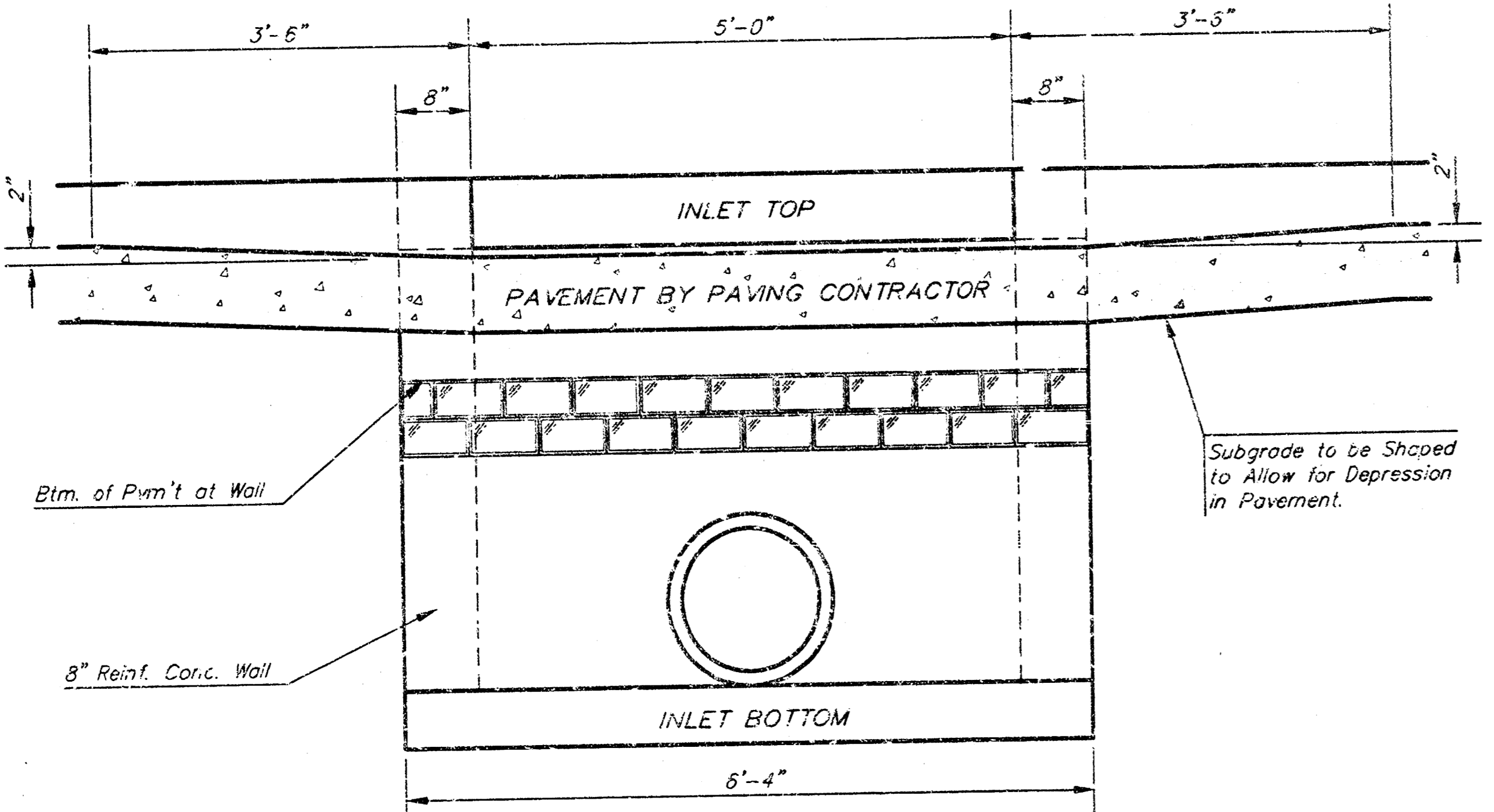


NOTE: Inlet Top Reinforcing shall be Spaced on 3" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

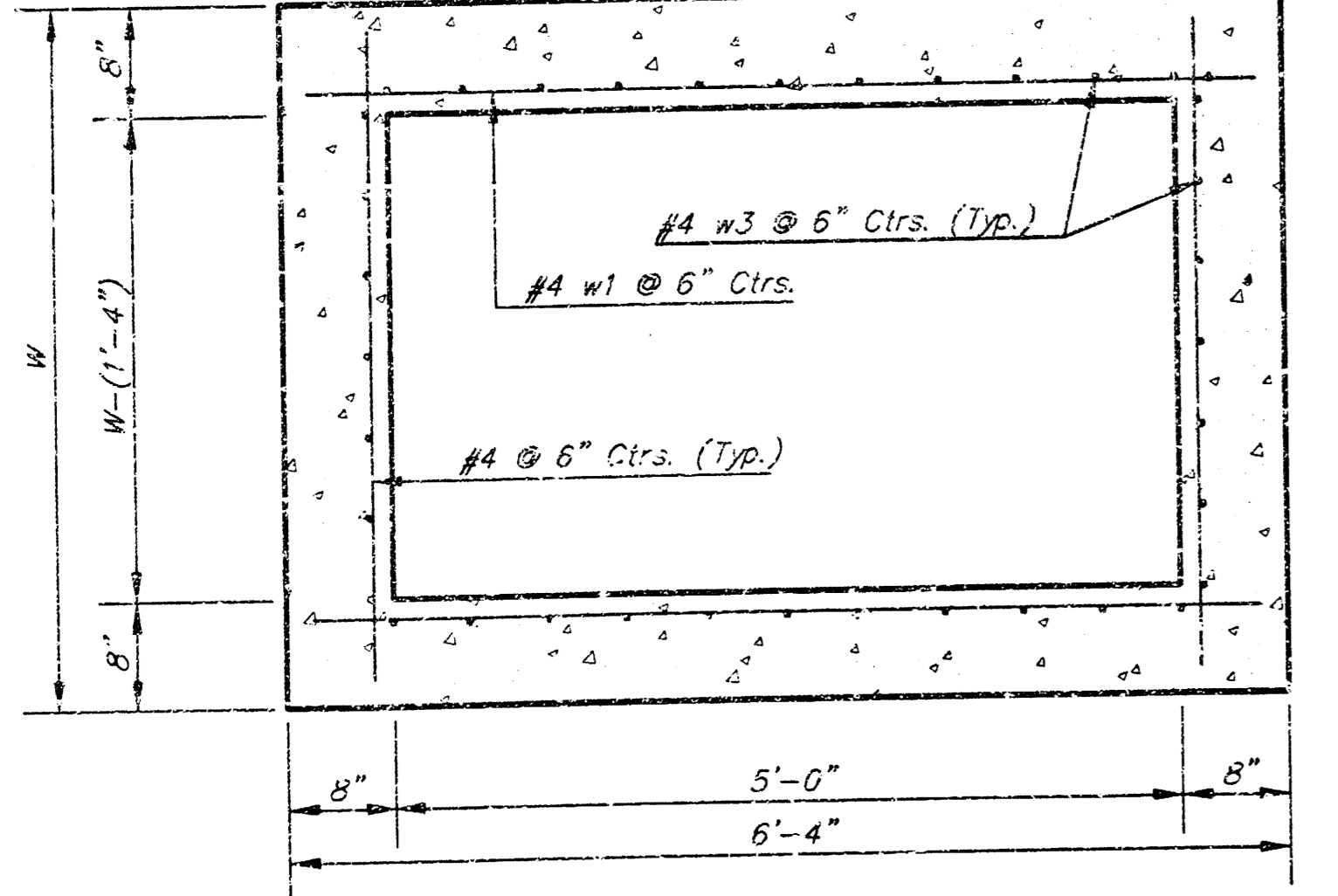
NOTE: Concrete Taps to be installed on thin mortar cushion to insure full support along brick walls. Concrete taps may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.

NOTE: Expansion Joint Only in Curb Area With Concrete Pavement.

PLAN



SECTION E-E



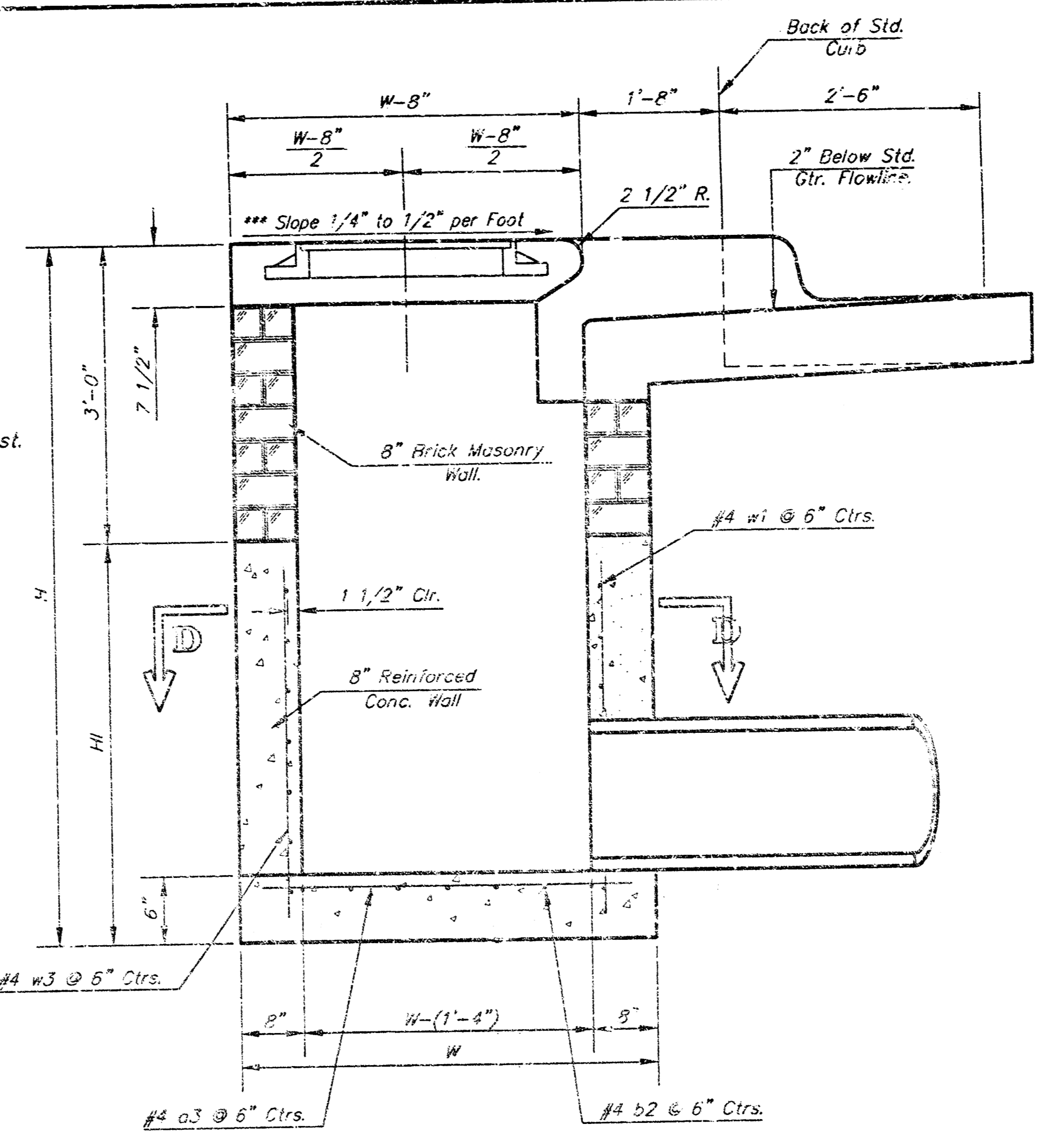
SECTION D-D

NOTE: 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.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

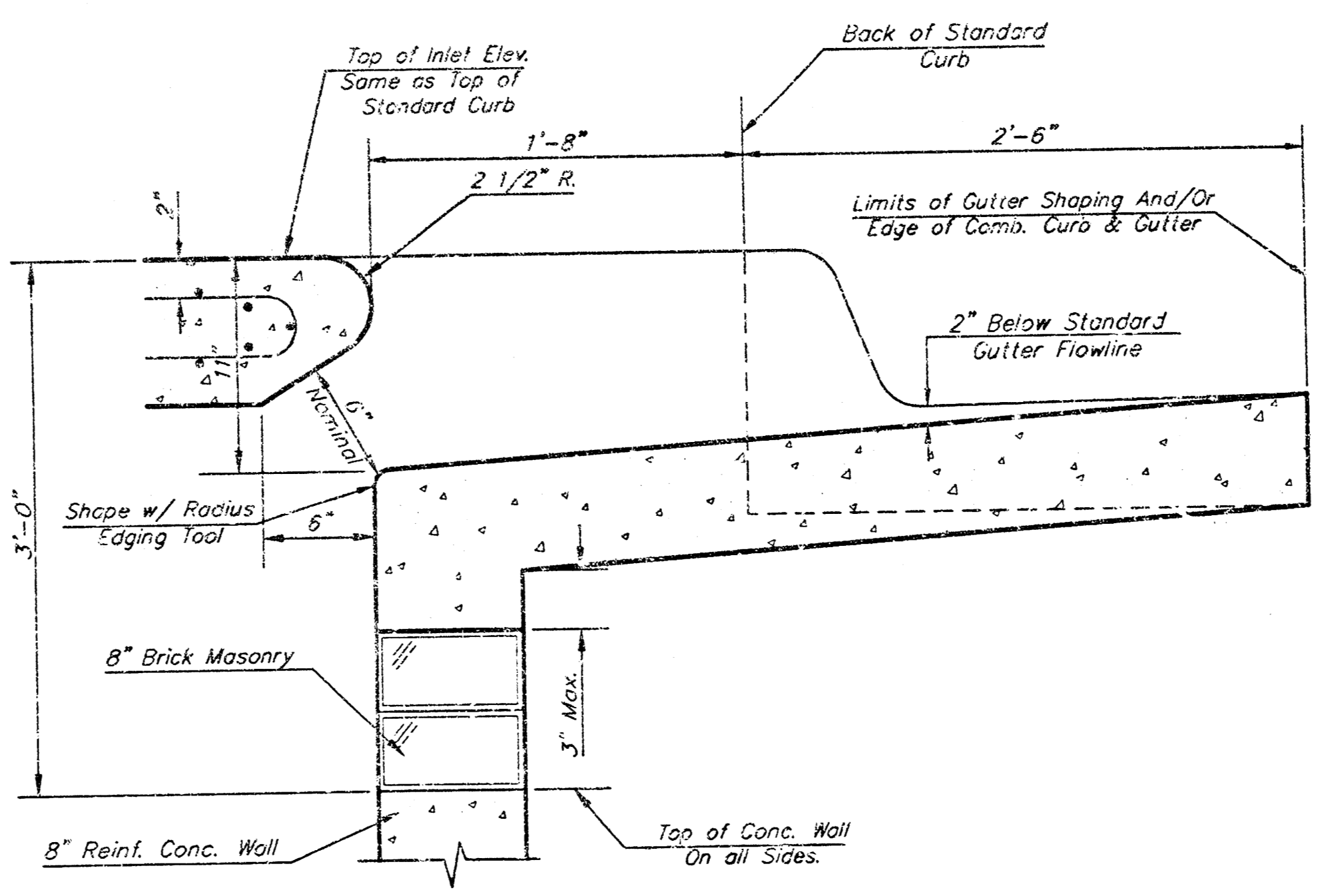
Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self-cleaning between all inlet and/or outlet pipes.

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

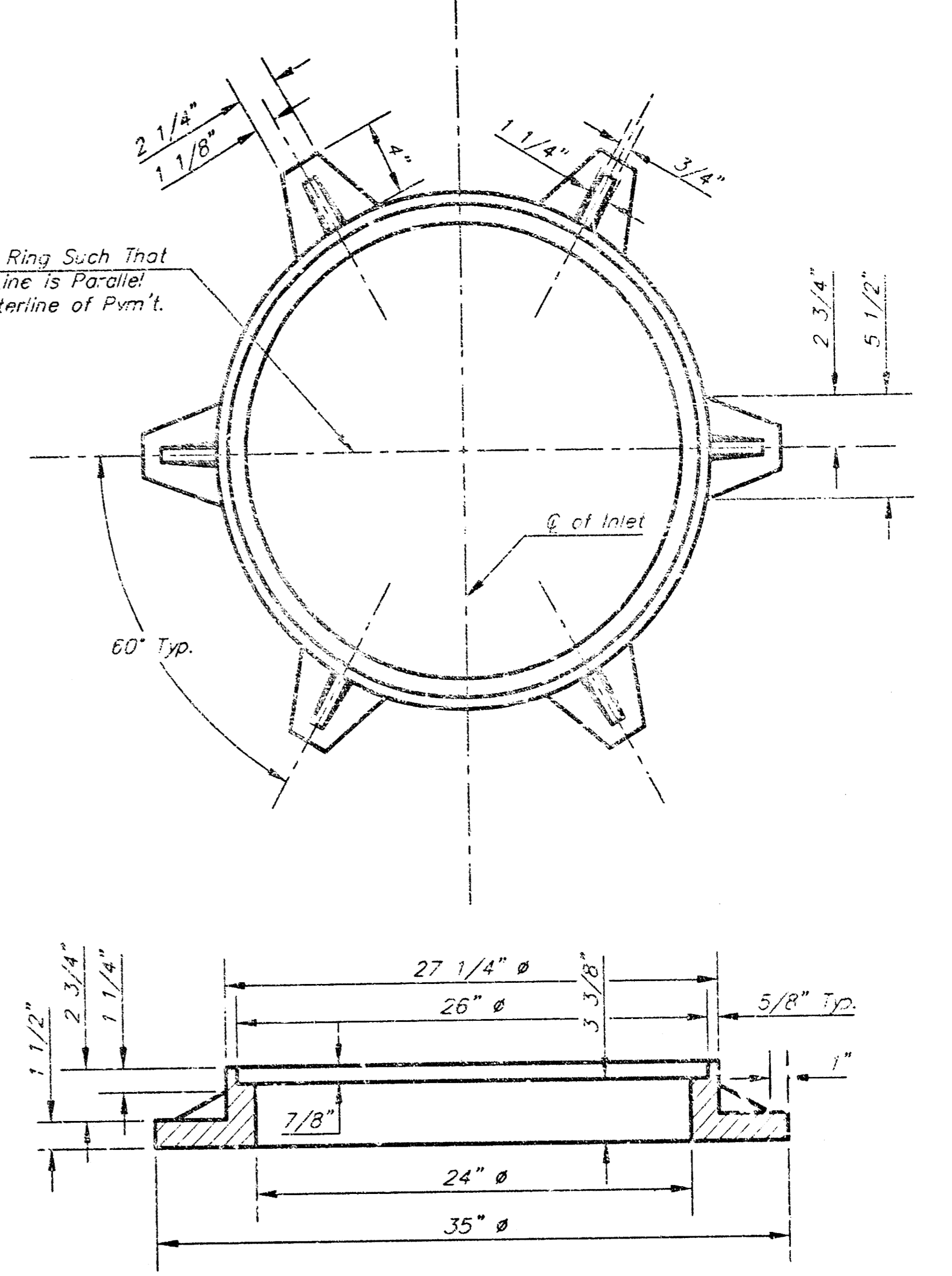


SECTION A-A

***NOTE: Slope of Inlet Taps to Match Sidewalk or Parking Slopes within Limits Indicated.

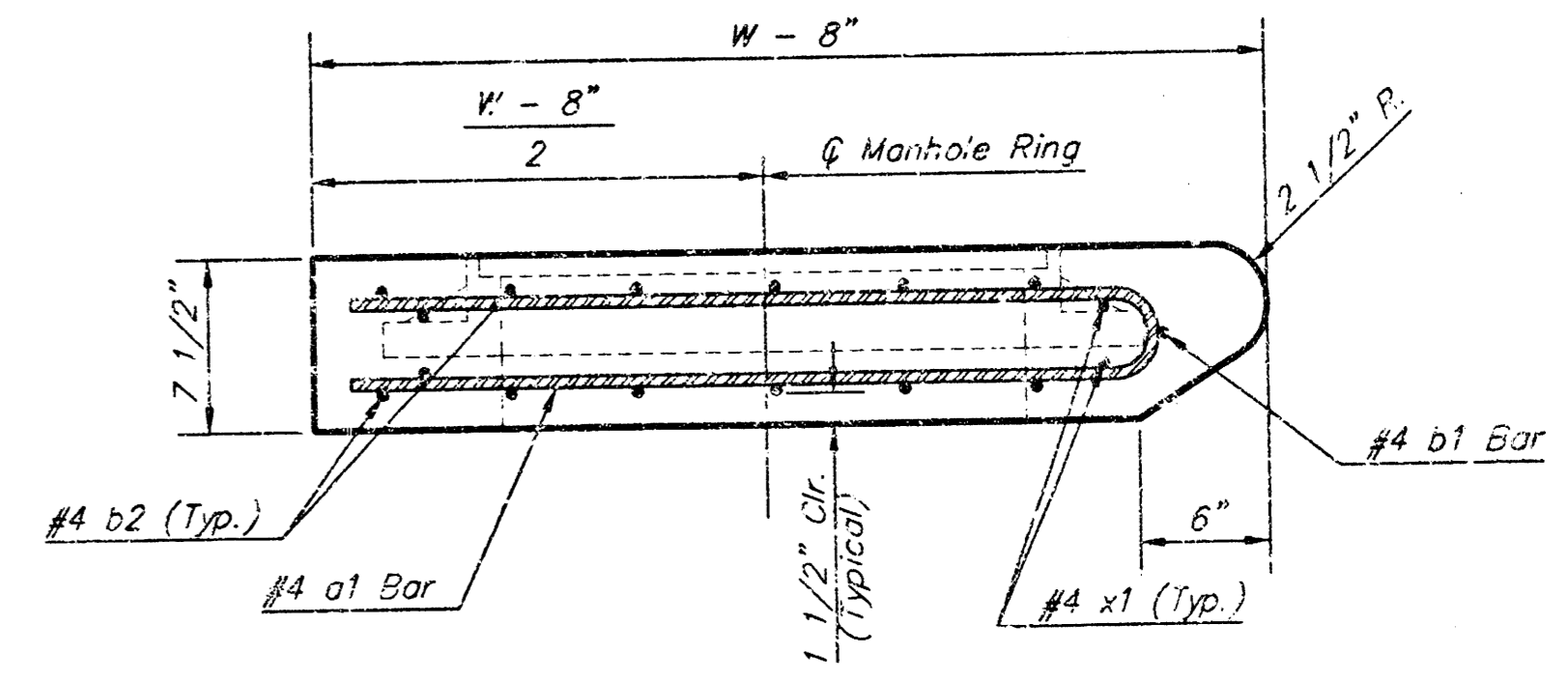


SECTION B-B



MANHOLE RING AND COVER

Weight = 180 Lbs.
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



SECTION C-C

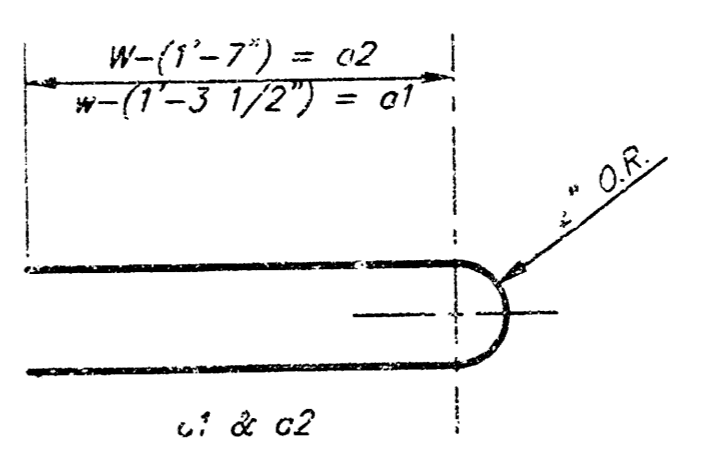
PRECAST SLAB AND FLOOR REINFORCING

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	6	6'-2"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	5'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
a2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-2"	8	4'-10"	8	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	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	②	36	②	40	②	44	②	48	②	52

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



BENDING DIAGRAM

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	0.362
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.512
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"	0.772
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.902

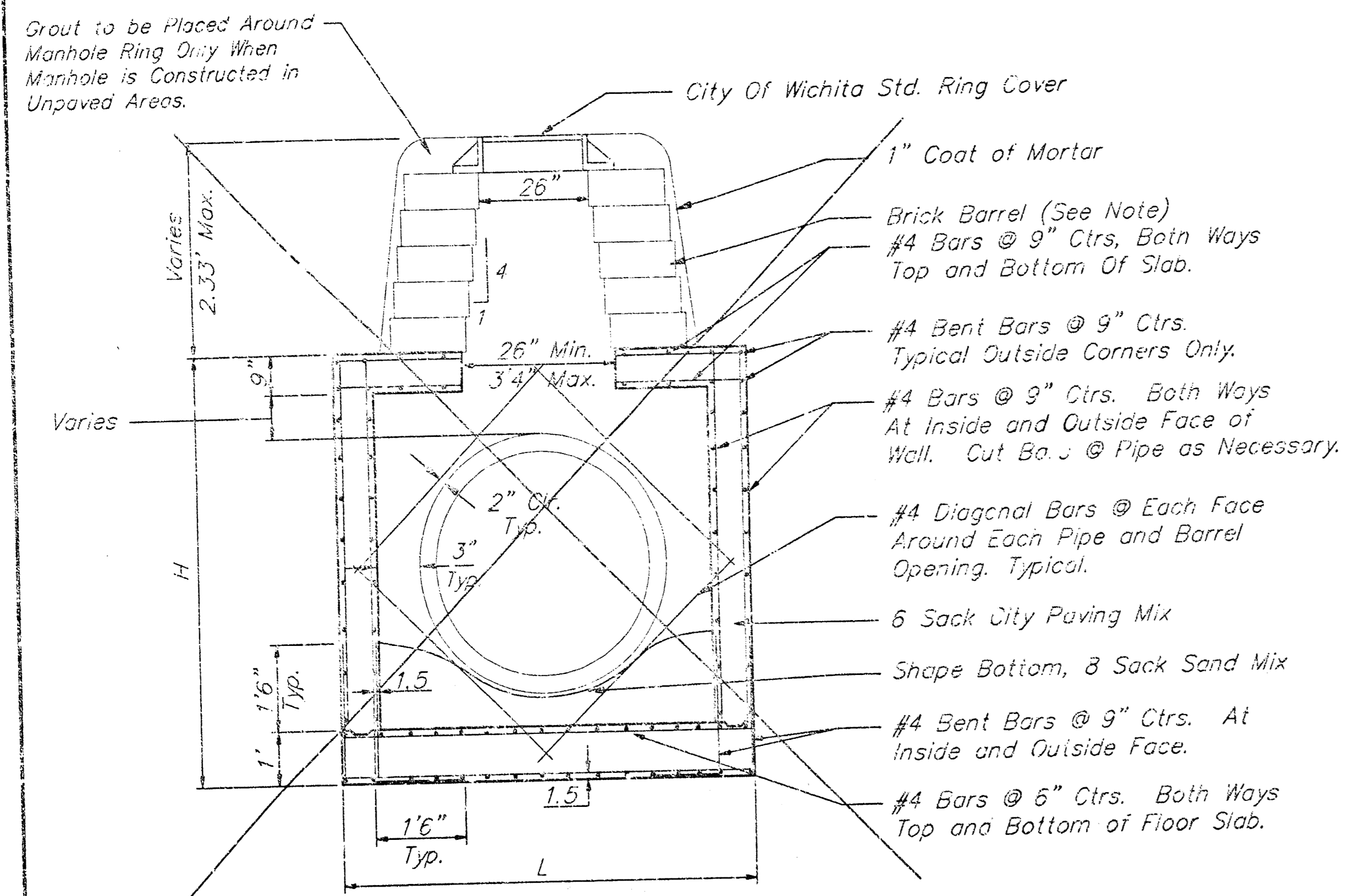
Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A
Curb Inlet Details
INLET OPENING = 6" X 5'-0"

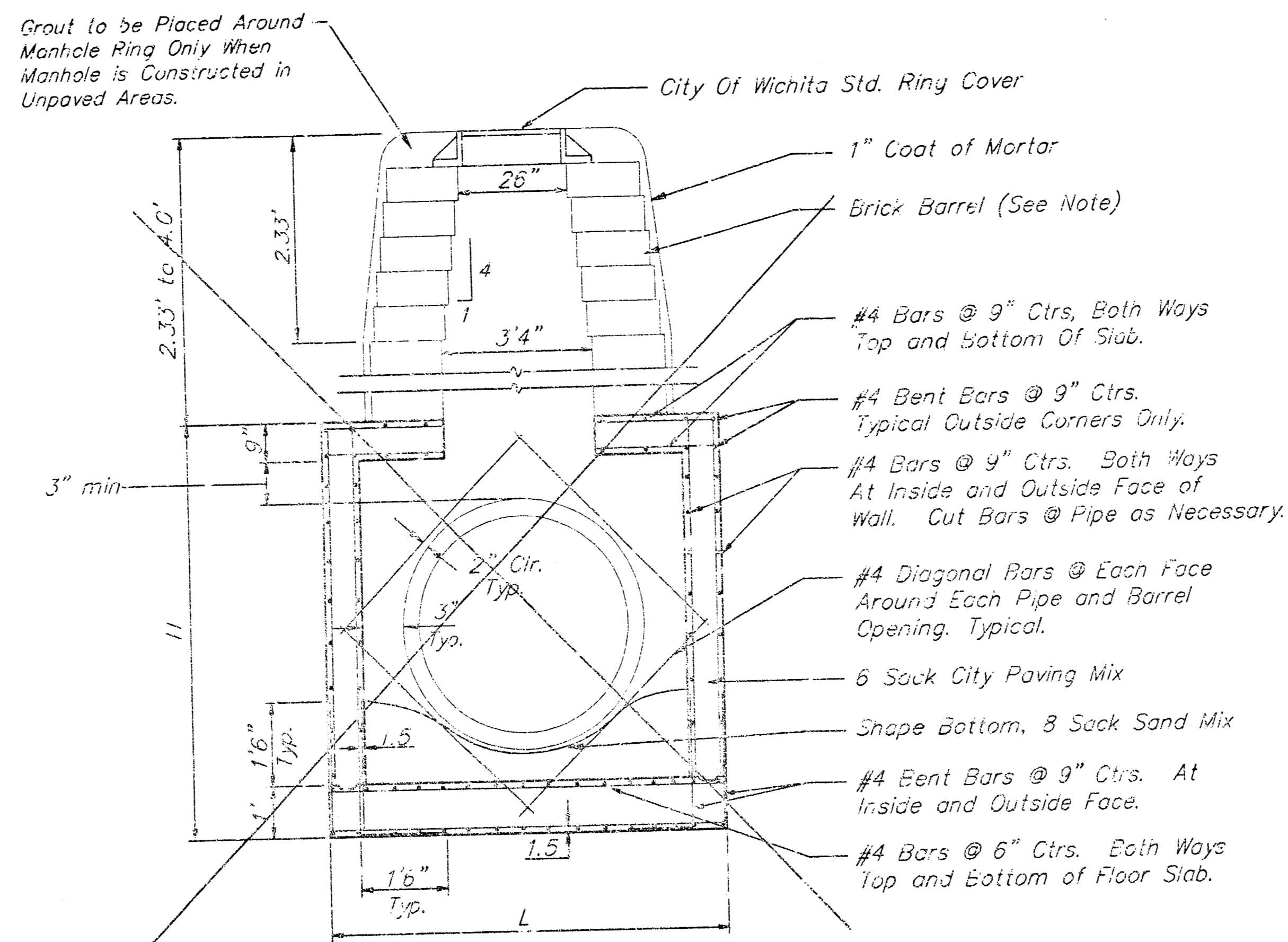
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-222-1221 • 515 ELMER • WICHITA, KANSAS 67201

PROJECT NUMBER: _____
SHEET: **8** OF **9**

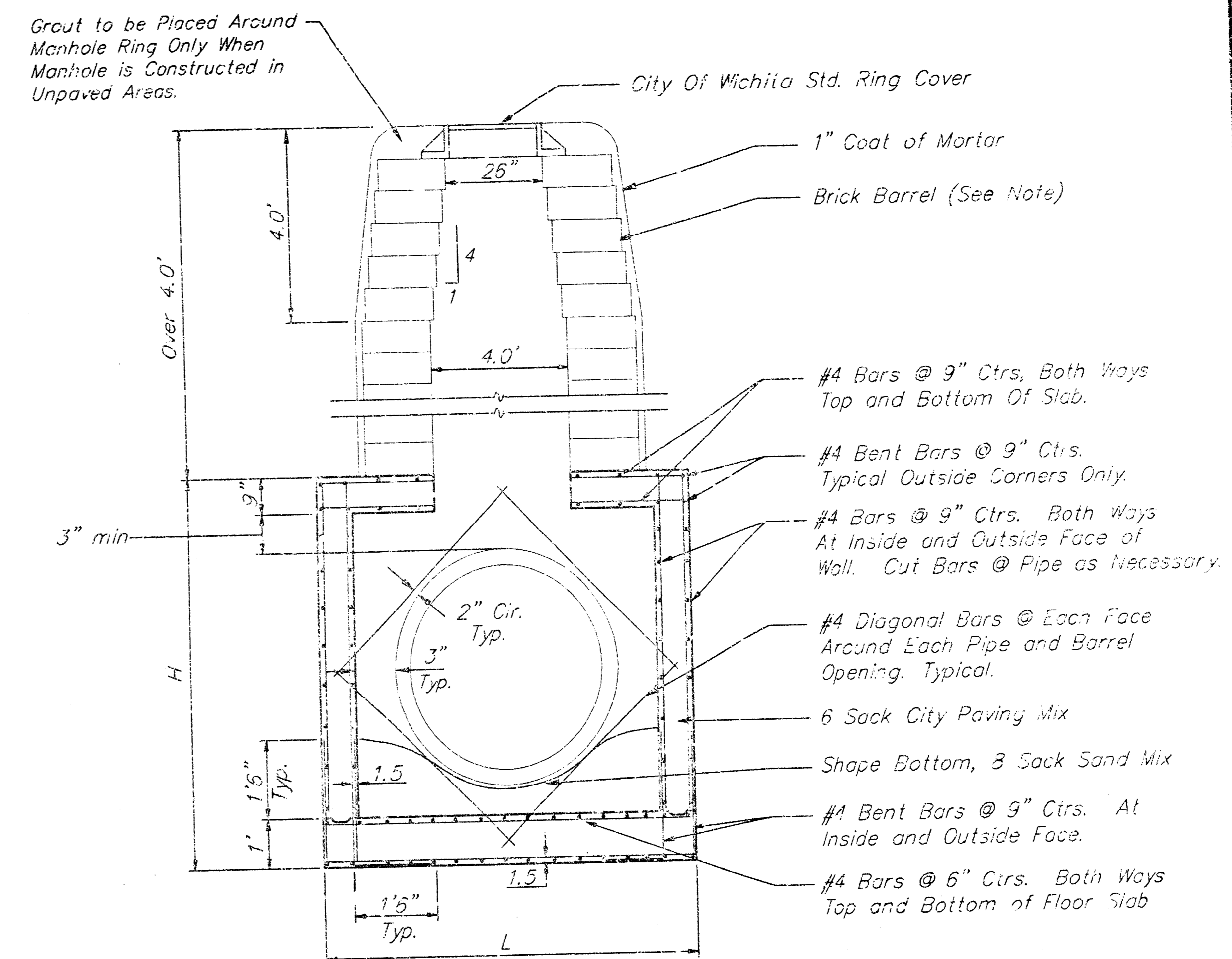
DESIGN: C.O.W. DRAWN: Staff APPROVED: _____ DATE: _____ SCALE: None



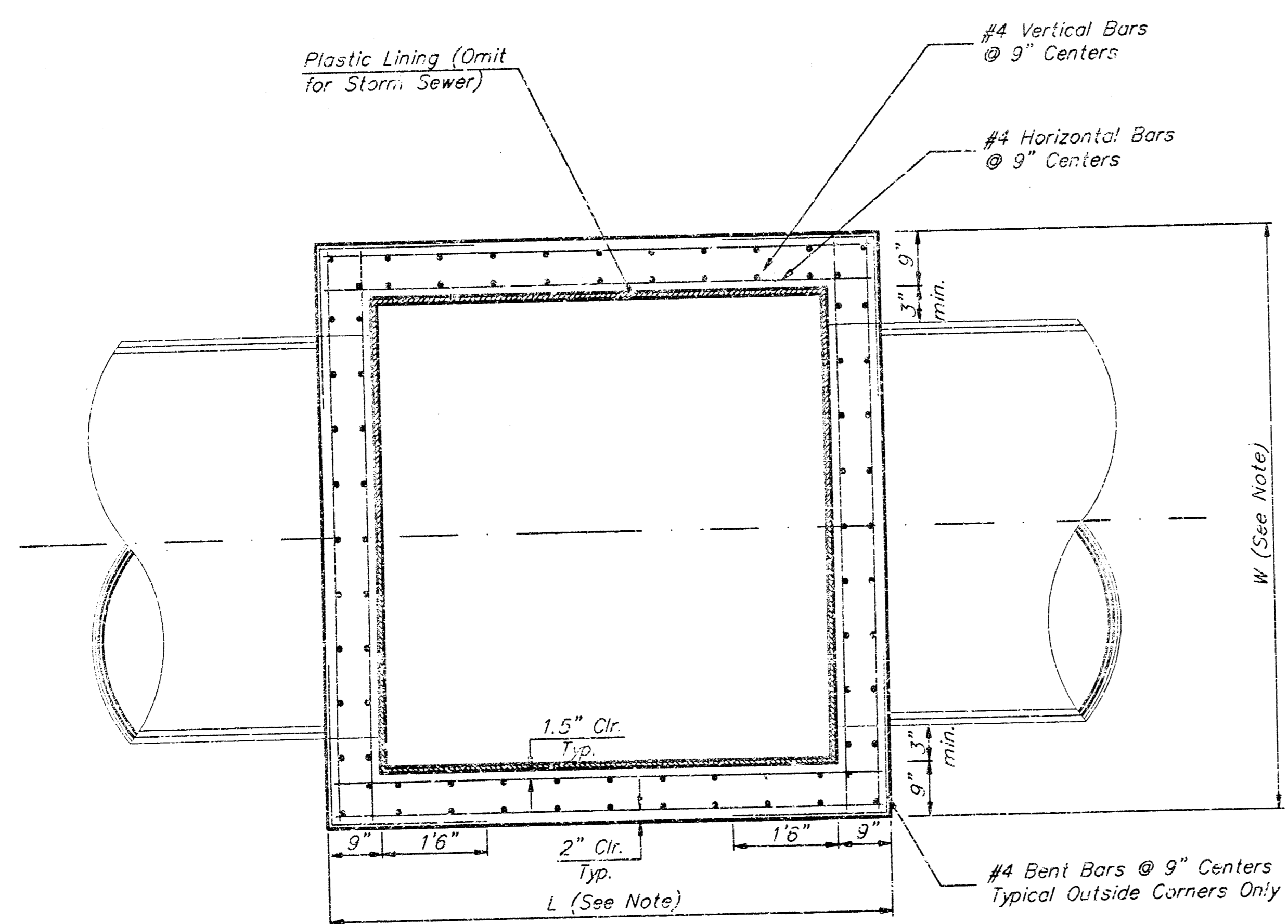
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'



TOP VIEW

Notes:

Brick barrels less than 16' deep shall have 8" walls except when located within public street or alley pavement; then the wall shall be 12". Brick barrels more than 16' deep shall have 12" walls. The "L" and "W" dimensions shall be a minimum of 5'6" for brick barrels with 8" walls and 6'2" for brick barrels with 12" walls when the brick barrels are over 4' in height. Completed manhole shall be without leaks and watertight.

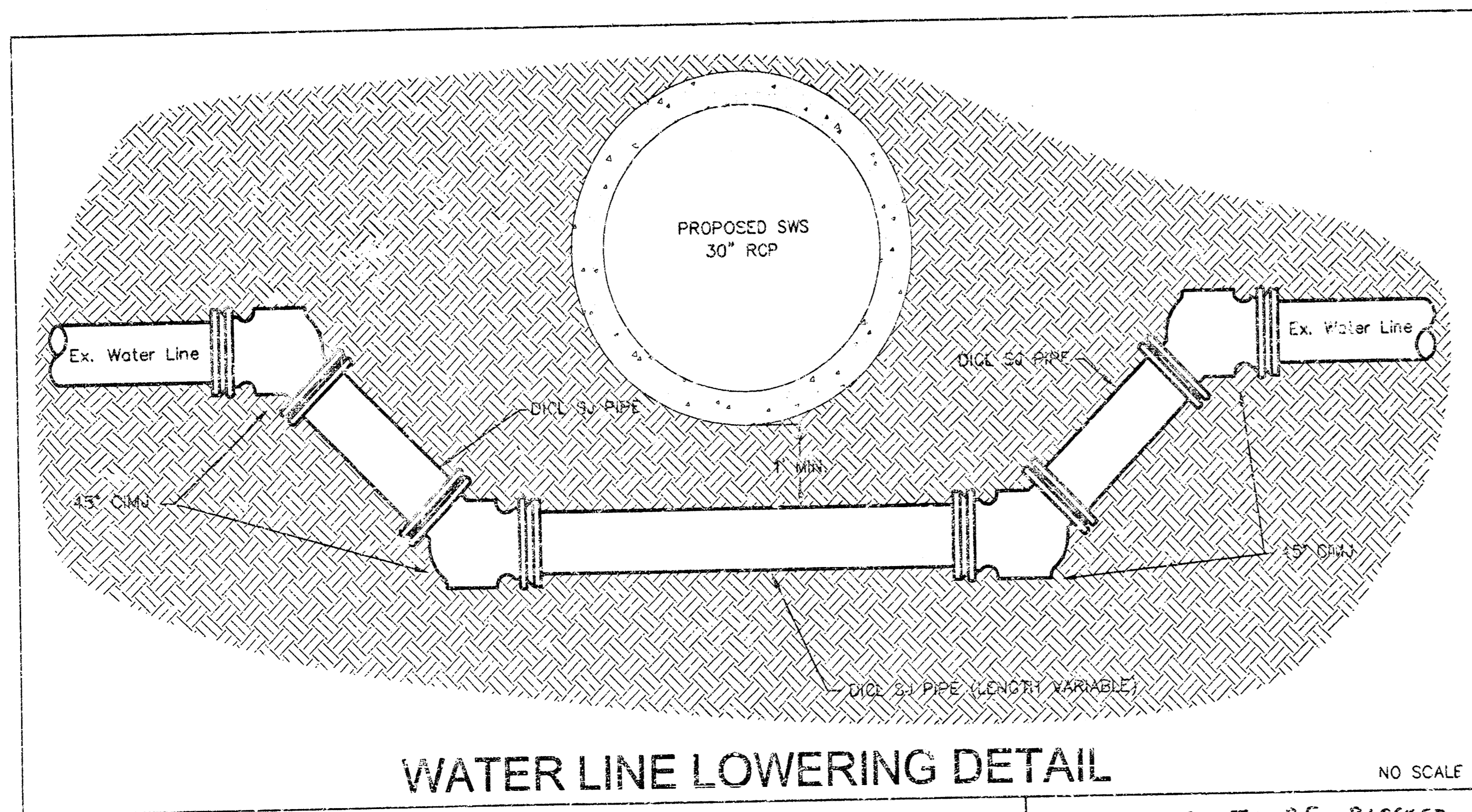
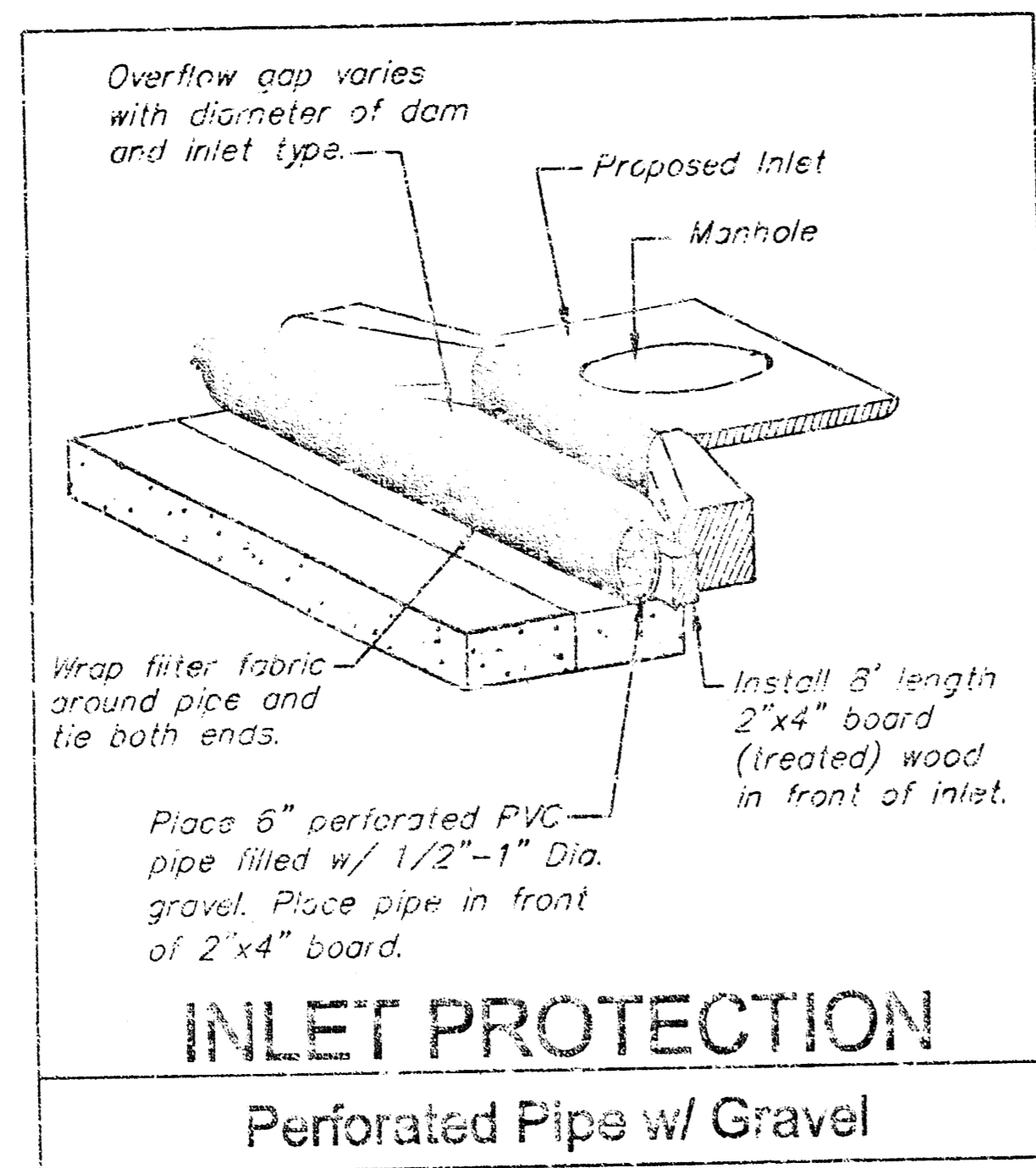
Concrete wall thicknesses shown represents manhole type located within traffic bearing areas. Manhole wall, base, & top dimensions may be reduced when manholes are not subject to vehicle loads. Contractor shall be required to submit shop drawings to the Engineer for approval.

CITY OF WICHITA STANDARD
REINFORCED CONCRETE MANHOLE

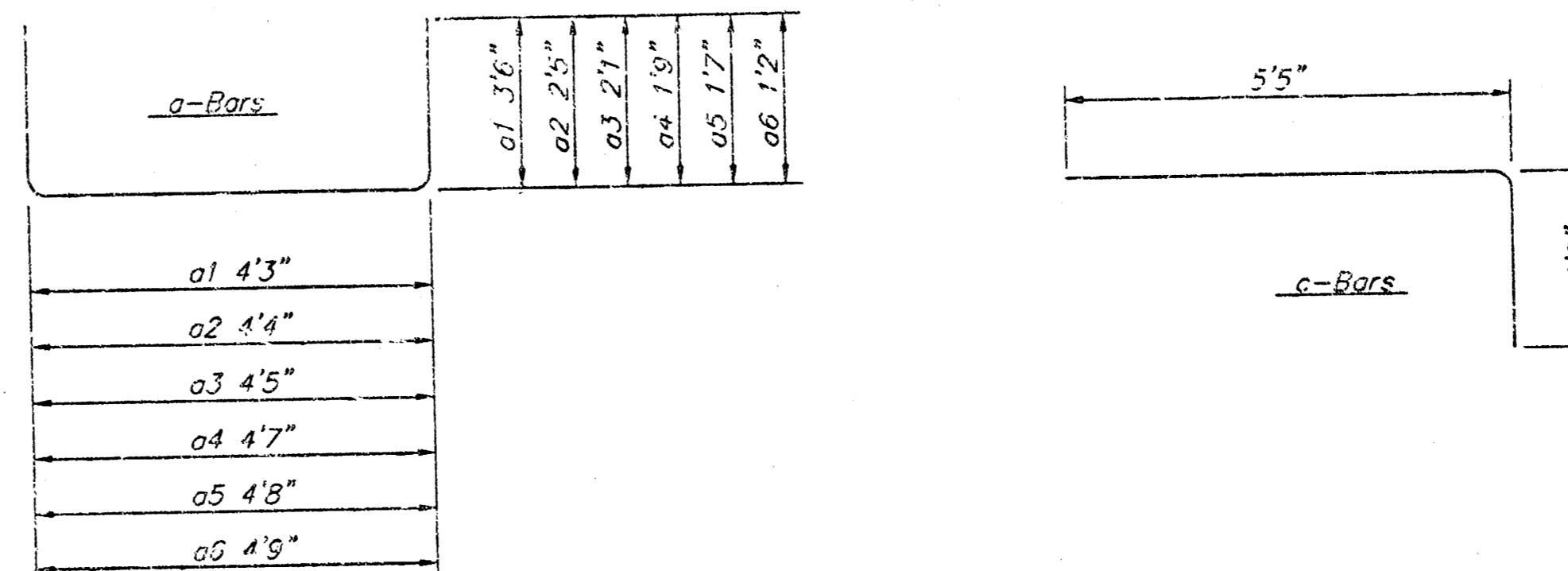
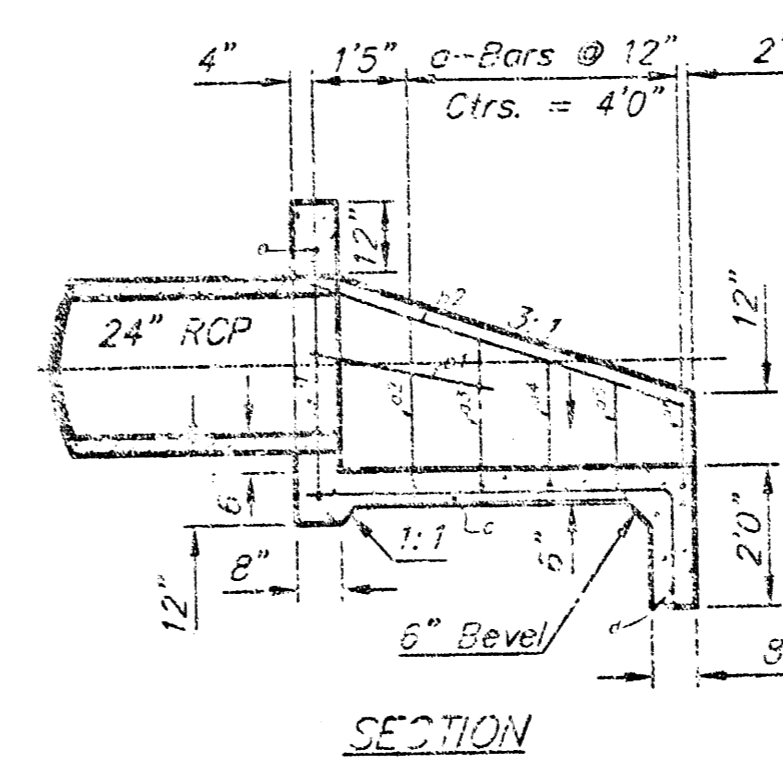
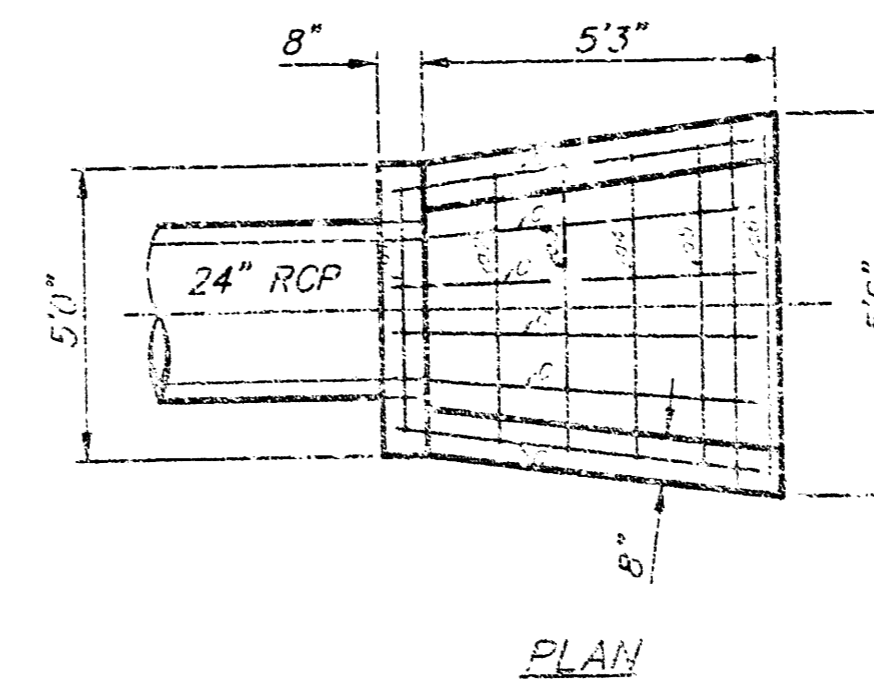
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7221 • 316-262-7222 • WICHITA, KANSAS 67202

PROJECT NUMBER _____ SHEET **7** OF **9**

DESIGN C.O.R.	DRAWN STAFF	APPROVED	DATE	SCALE NONE
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ALL BENDS TO BE BLOCKED AS PER WATER DEPT SPECS. CONTRACTOR MAY ANCHOR BENDS TOGETHER ALONG PIPE W/ RODS & LUGS.



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	11'3"	7.52
a2		1	9'2"	6.12
a3		1	8'2"	5.73
a4		1	8'1"	5.49
a5		1	7'10"	5.23
a6		1	7'1"	4.73
b1		2	2'9"	3.67
b2		2	5'10"	7.79
c		6	6'11"	27.72
d		1	5'0"	3.37
e		1	4'4"	2.89
Total Rebar			80.17 Lbs	
Concrete			±1.67 C.Y.	

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall
 * Field Bend or Cut Reinforcing as Required for Clearance
 All Concrete Reinforcement to be #4 Rebar
 All Rebar to Have Min. of 1/2" Conc. Cover

- GENERAL NOTES**
- ALL PIPES SHALL BE FLUSH CUT PRIOR TO BEING CAST INTO CONCRETE HEADWALL
 - CONCRETE USED IN HEADWALL CONSTRUCTION SHALL BE SAME AS PER CITY STANDARD PAVING MIX EXCEPT THAT IT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
 - ALL EXPOSED EDGES SHALL BE BEVELED 1/2".
 - REINFORCING STEEL SHALL COMPLY TO A.S.T.M. DESIGNATION A615 GRADE 60. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.
 - THE "REM. CONC. HEADWALL" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH IN PLACE WHICH SHALL INCLUDE ALL LABOR, MATERIALS, EXCAVATION, CONCRETE, REINFORCING STEEL AND ALL OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK. MATERIAL QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

HEADWALL FOR 24" RCP

DETAILS

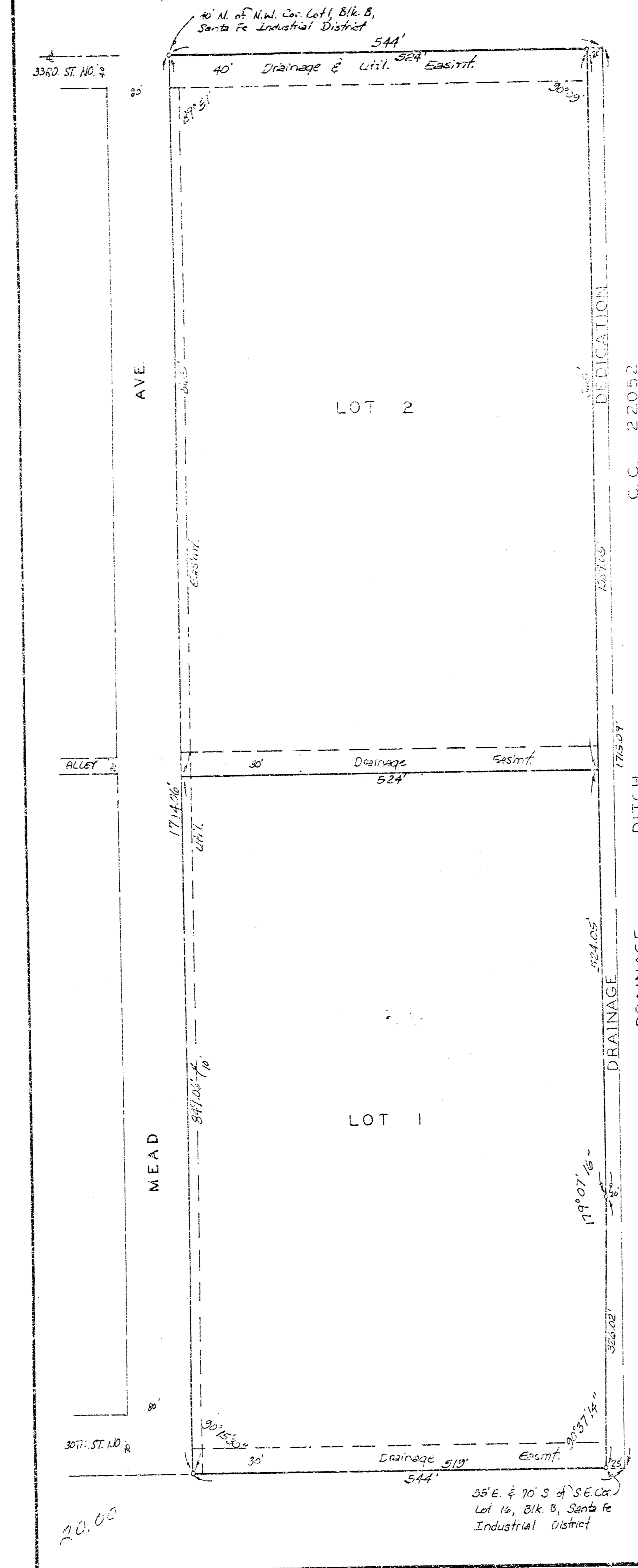
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

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

DESIGN: SCL DRAWN: SCL APPROVED: NRW DATE: 4/12/01 SCALE: NONE

COLEMAN CO. ADDITION

WICHITA, KANSAS.



State of Kansas, S.S. We, Baughman Company, P.A. Surveyors Sedgewick County, and state do hereby certify that we have surveyed and platted "COLEMAN CO. ADDITION", Wichita, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a repeat of Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18, Block B, Santa Fe Industrial District at Wichita, Kansas, together with all of the Alley lying between said lots 7, 8, 9 and 10, and together with part of 33rd St. No. part of 30th St. No. and all of Mosley Ave. adjacent thereto, being more particularly described as beginning at the N.W. Corner of said Lot 1; thence north along the extended west line of said Block B, 40 feet to the center line of said St. No. as platted in said Addition (lying the north line of the south of Sec. 33, Twp. 26-3, R. 14E); thence east along the center line of said said St. No., 344 feet to the east line of Mosley Ave. as platted in said Addition; thence south along the east line of said Mosley Ave. 1715.00 feet to the south line of 30th St. No. as platted in said Addition; thence west along the south line of said 30th St. No., 344 feet to the west line of said Block B, extended south; thence north 1674.06 feet to the place of beginning. The streets and Alley being vacated by virtue of K.S.A. 1970 Supp. 12-512(c).

Baughman Company, P.A.

William L. Korner Surveyor
William L. Korner

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into a lot to be known as "COLEMAN CO. ADDITION" Wichita, Kansas. The easements are hereby granted as indicated, for the construction and maintenance of all public utilities. The drainage and dedication is hereby dedicated for drainage purposes. The Coleman Co., Inc.

John M. Reiff Vice President

#525177

State of Kansas, S.S. The foregoing instrument, was acknowledged before me this 10th day of October 1980, by John M. Reiff, Vice-President.

My Comm. Exp. _____ Notary Public

This plat of "COLEMAN CO. ADDITION", Wichita, Kansas, has been submitted to and approved by the Wichita-Sedgewick County Metropolitan Area Planning Commission, Wichita, Kansas, dated this 4th day of December, 1980.

Wichita-Sedgewick County Metropolitan Area Planning Commission

James H. ... Chairman
Richard ... Secretary

This plat approved and all indications shown hereon accepted by the Board of Commissioners of the City of Wichita, Kansas, this 11th day of December, 1980.

Richard ... Mayor
... City Clerk

This plat approved and all indications shown hereon accepted by the Board of Commissioners, Sedgewick County, Kansas, this 32nd day of December, 1980.

John ... Commissioner
... Commissioner
... County Clerk

Entered on transferred record this 3 day of January, 1981.

... County Clerk

State of Kansas, S.S. This is to certify that this Sedgewick County S.S. plat has been filed for record in the office of the Register of Deeds, this 3rd day of February, 1981, at 11:55 o'clock P.M. and is duly recorded.

... Register of Deeds
... Deputy