

# STORM WATER SEWER IMPROVEMENTS TO SERVE RIVERSIDE HEALTH SYSTEM

Private Project Number  
**825 PPS (807861)**

**CITY OF WICHITA, KANSAS**  
Michael E. Lindebak, P.E. City Engineer  
SEPTEMBER, 1998

**BENCHMARK:**

"□" Located on top of West Side  
of Mearns Blvd. and South right-of-way line  
of vacated Murdock  
Elev. = 115.91 (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	262-0561
or	263-2061
K.P.L. Gas Service Company	263-7511
Kansas Gas & Electric Company	264-1141
Southwestern Bell Telephone Company	1-800-344-7235
City of Wichita Water Department	268-4098
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. 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.

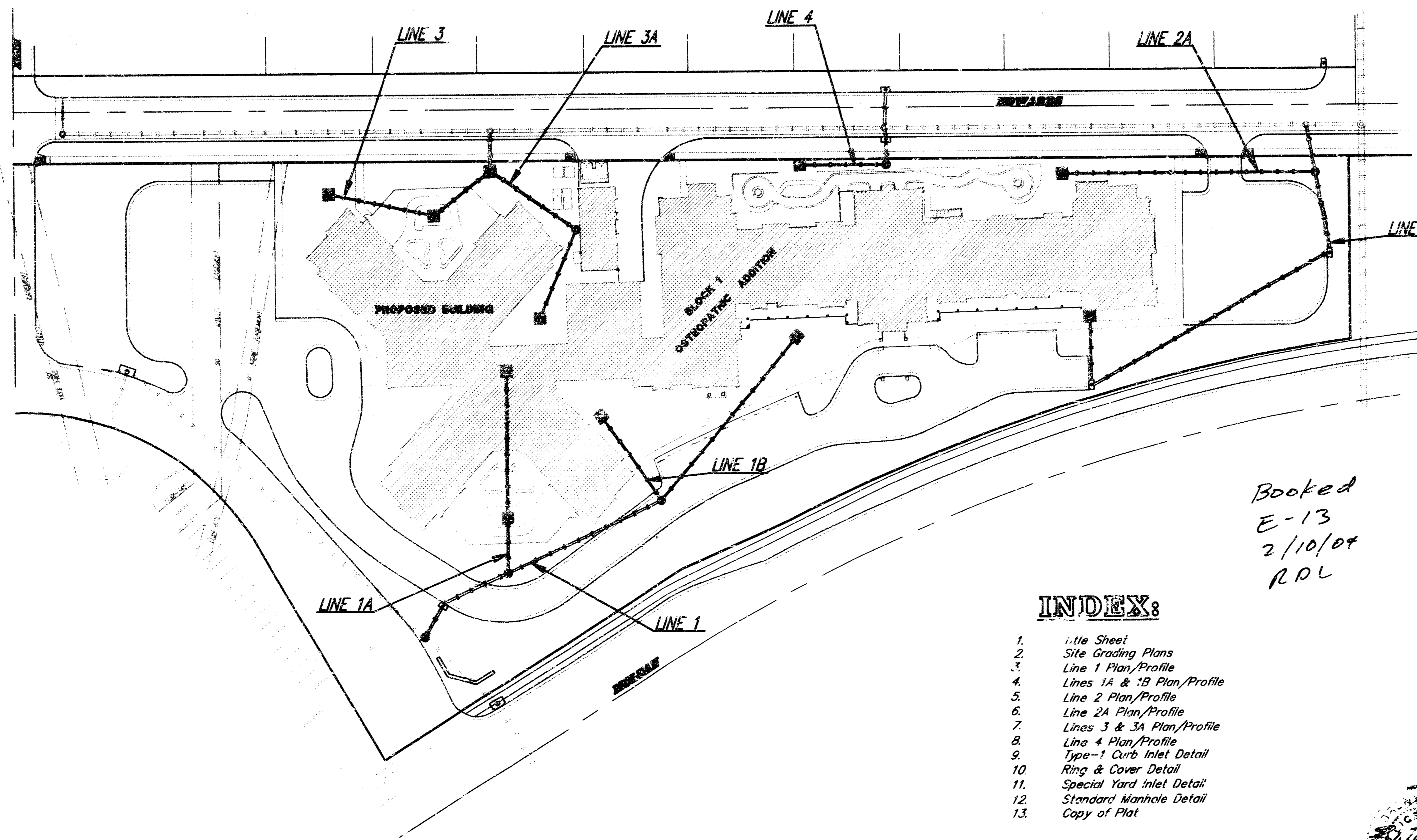
4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

5. 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.

6. It will be the Contractor's responsibility to field check the project area to determine the extent of Site Clearing and Restoration to be performed.

7. 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.

8. Coordinate system used to locate proposed inlets and manholes based on the PK Nail located at the intersection of centerlines of Elm and Edwards. Coordinates for this point is Northing: 5000.000, Easting: 5000.000. The second point for orientation is the rebar located at the intersection of Murdock and Edwards centerlines. Coordinates for this point are Northing: 5950.000, Easting: 5000.000.



APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA  
Storm Sewer VRH 9/25/98

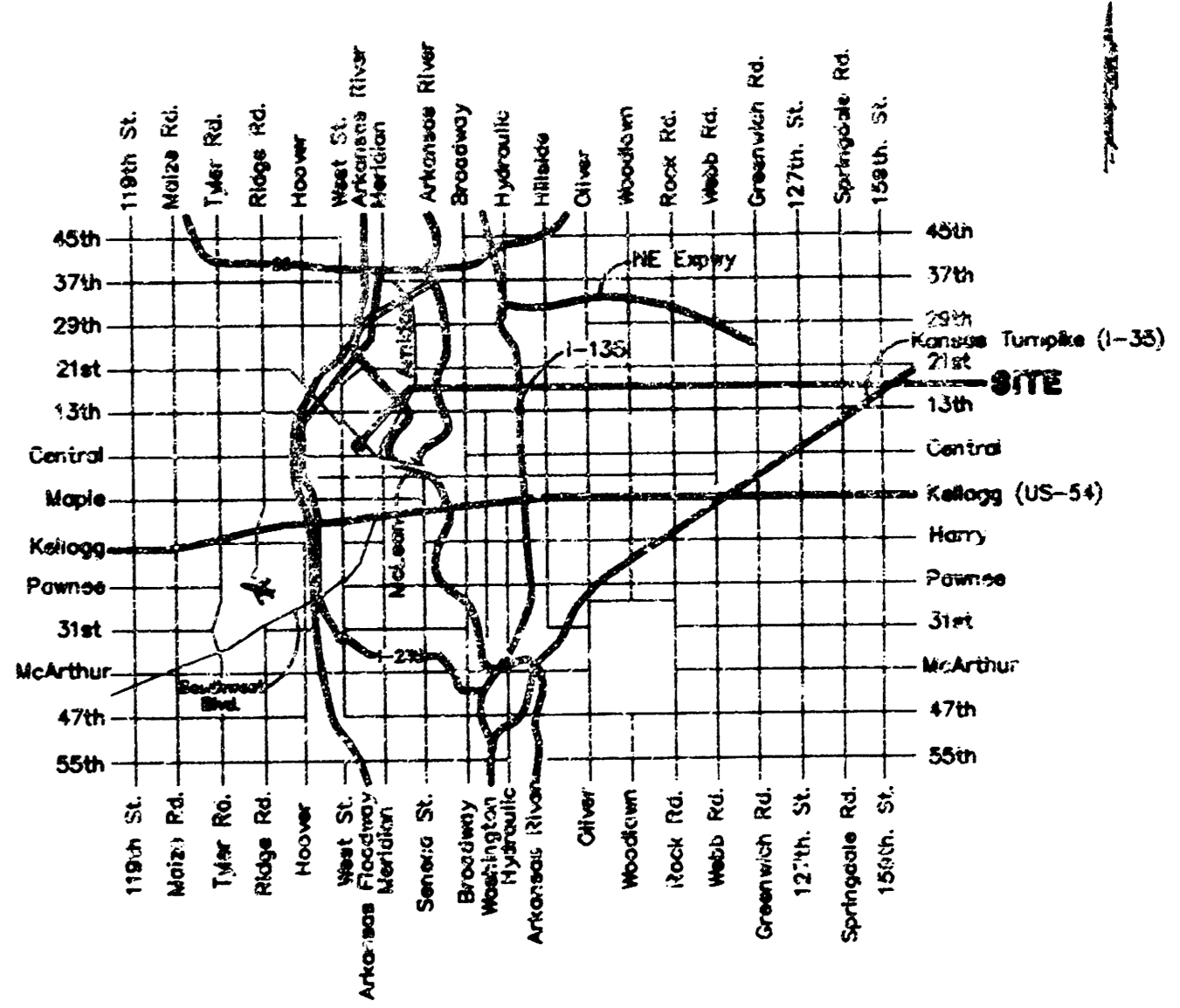
NOTE TO CONTRACTORS

Installation 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).

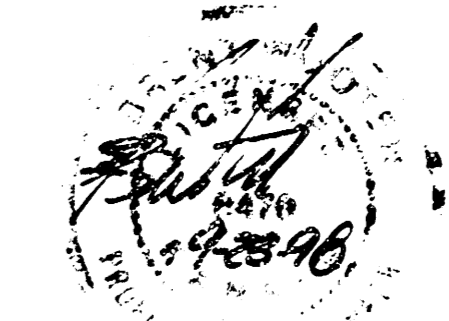
Booked  
E-13  
2/10/04  
RDL

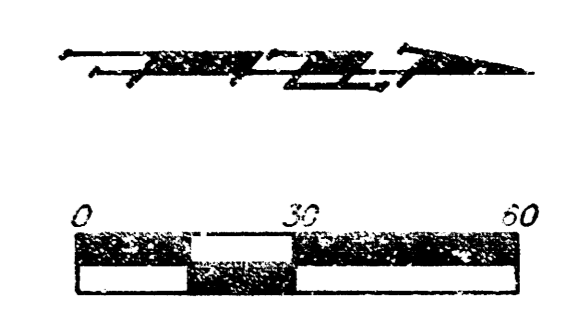
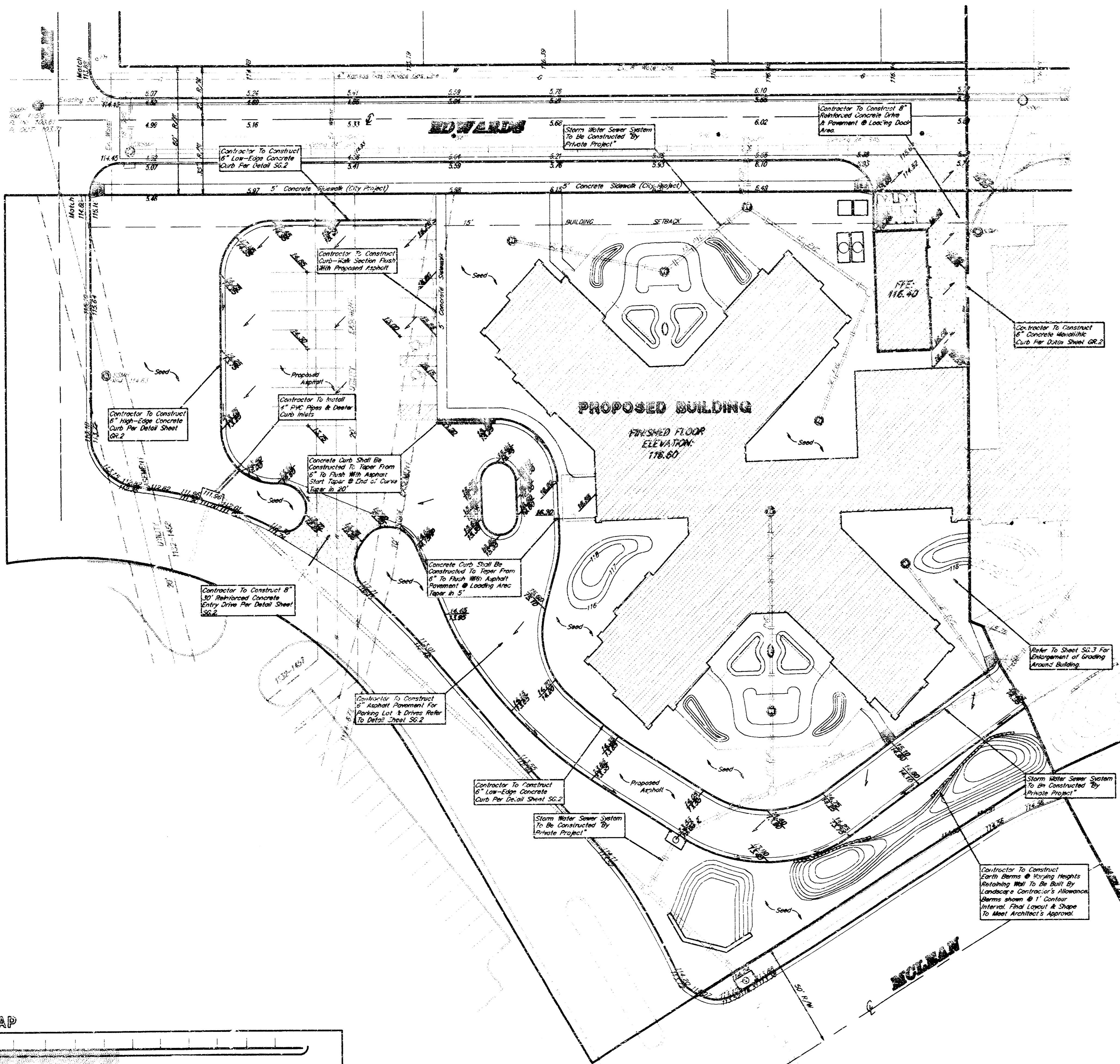
**INDEX:**

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2. Site Grading Plans
3. Line 1 Plan/Profile
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5. Line 2 Plan/Profile
6. Line 2A Plan/Profile
7. Lines 3 & 3A Plan/Profile
8. Line 4 Plan/Profile
9. Type-1 Curb Inlet Detail
10. Ring & Cover Detail
11. Special Yard Inlet Detail
12. Standard Manhole Detail
13. Copy of Plat



**Vicinity Map**





**BENCHMARK:**

"□" Located at top of curb on West side of Moleon Blvd. and South right-of-way line of vacated Muldock.  
Elevation = 115.91 City Datum

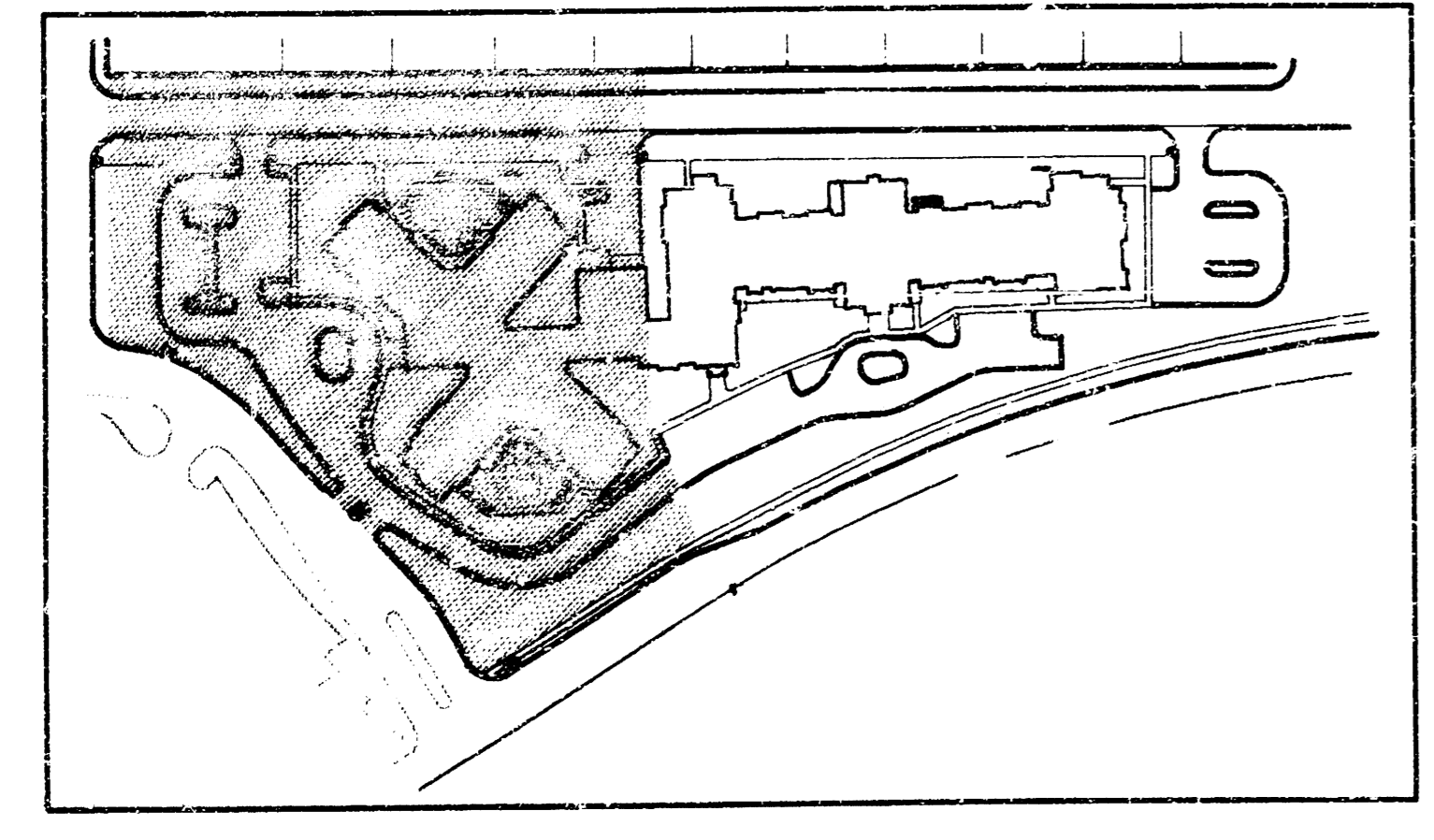
**LEGAL DESCRIPTION:**

Block 1, Osteopathic Addition to Wichita, Kansas, TOGETHER with the S 1/2 of vacated Muldock Avenue 1/2 mi north of and adjacent to said Block 1, EXCEPT that part of said Block 1 lying south of and southeasterly of the following described line: Commencing at the SW corner of said Block 1, 100 feet to a corner of said Block 1; thence N89°55'20"W along a westerly line of said Block 1, 25 feet to a corner of said Block 1; thence N00°E along the west line of said Block 1, 485 feet to a corner of said Block 1; thence S69°55'30"E along the westerly line of said Block 1, 35 feet to a corner of said Block 1, and for a point of beginning; thence N00°E, 172.40 feet to the P.C. of a curve to the right; thence northerly and northeasterly along said curve, having a central angle of 67°59'01" and a radius of 195 feet, an arc distance of 231.38 feet; (having a chord length of 218.04 feet bearing N24°49'59"E) to the P.I. of said curve; thence N52°49'30"E, 173.73 feet to a point on the easterly line of said Block 1 and there ending, and EXCEPT that part taken for the right-of-way in Film 1175 at Page 1648.

**GRADING 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 687-2470  
The Contractor must notify the following in case of an emergency:  
Multimedia Cablevision 282-0661  
K.P.L. Gas Service Company 383-8550  
Kansas Gas & Electric Company 383-0800  
Southwestern Bell Telephone Company 800-344-7233  
City of Wichita Water Dept. (Emergency) 268-4908  
City of Wichita Sewer Maint. (Shop 1) 268-4071
- Exist. utilities and their locations, 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 which do not conflict with proposed construction.
- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.
- The Contractor to verify utility locations prior to construction of this project.
- All disturbed areas shall be seeded with Rebel II rescue at the rate of 340 lbs. per acre. Fertilizer (13-13-13) shall be applied at the rate of 100 lbs. per acre.
- Signage and striping shall be installed in accordance with City of Wichita Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
- All striping shall be solid, 4" in width and shall be yellow or white in color.
- All trees and shrubs in direct conflict with construction shall be removed.
- Paved lot to be constructed with 5" asphaltic concrete pavement (4" bituminous base/2" A.C. surface) and subgrade to be compacted to 95% Standard Density. Asphaltic pavement to conform.
- Utility service connections shall be in accordance with applicable City codes.
- Retaining walls for berms shall be constructed under the Landscape Contractor's allowance. The materials to be used will be under the architect's discretion.
- The General Contractor shall be responsible for the installation of drain tile around the foundation and connection to the 6" PVC shown on the plan. The 6" PVC connecting the proposed drain tile and inlets shall be installed by the mechanical contractor.
- The Contractor is to ensure that all turf areas drain away from the proposed building foundation. The drainage should either be directed over the curb or into proposed inlets. This includes water from roof drains.
- The Contractor shall be responsible for providing and installing all necessary equipment for drainage system as depicted on plan. This includes all grates, catch basins, risers, adapters and piping. The Contractor shall be responsible for ensuring positive drainage through drainage system.
- The Contractor shall be responsible for all drainage systems which have pipe sized under 12". NDS drainage products or approved equal shall be used for these systems.

**KEY MAP**

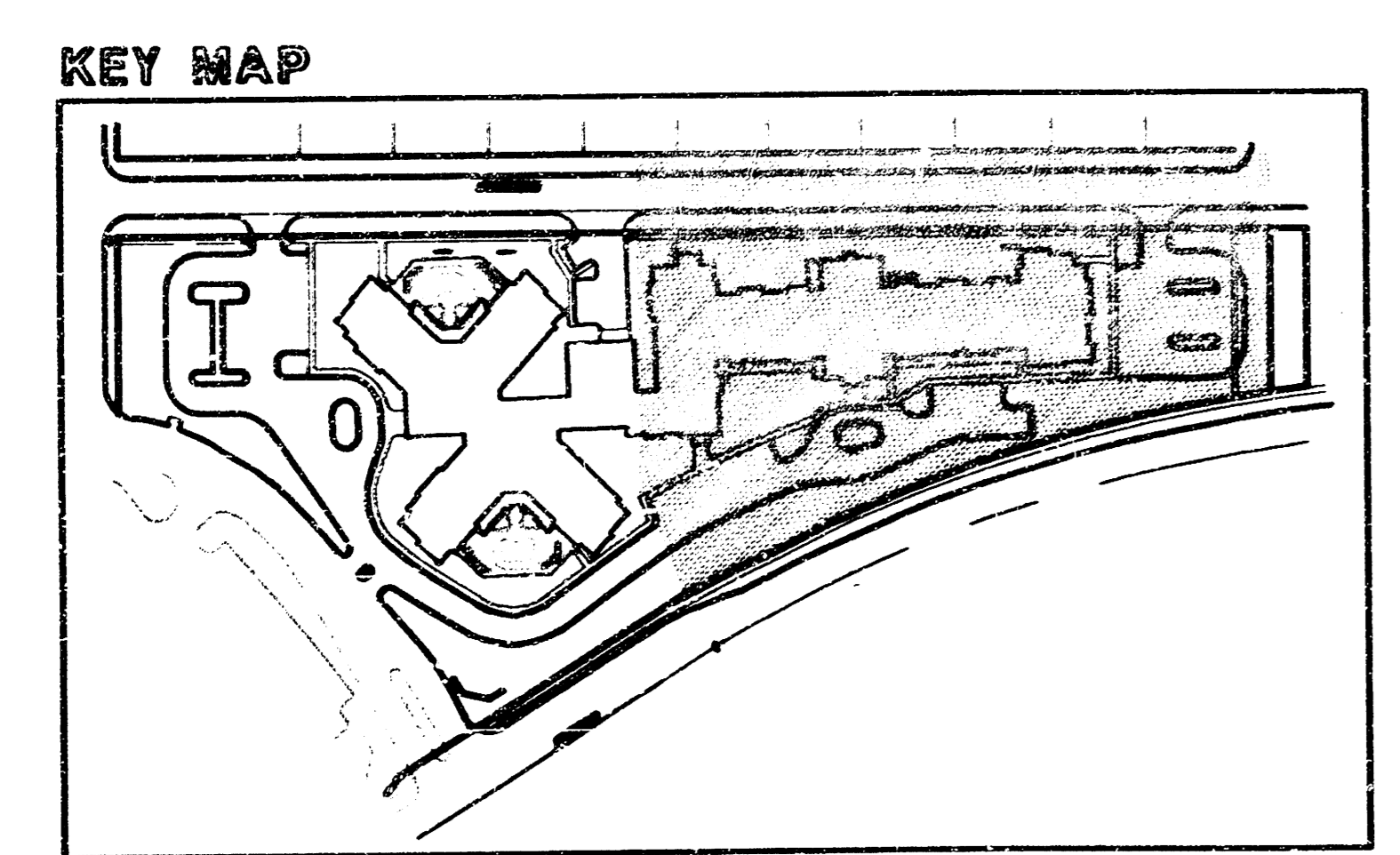
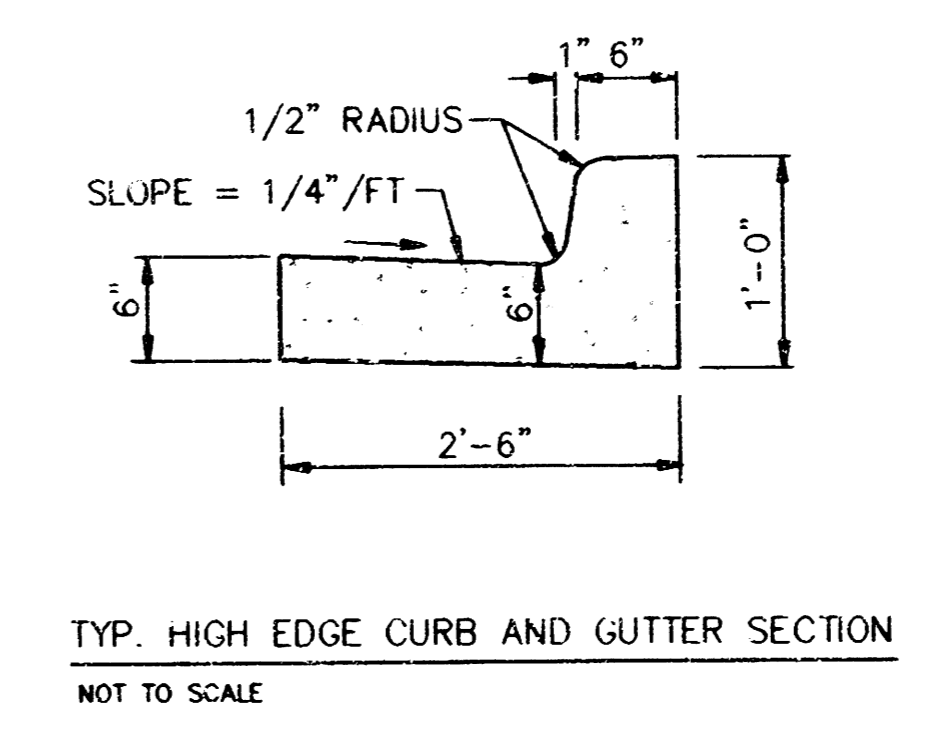
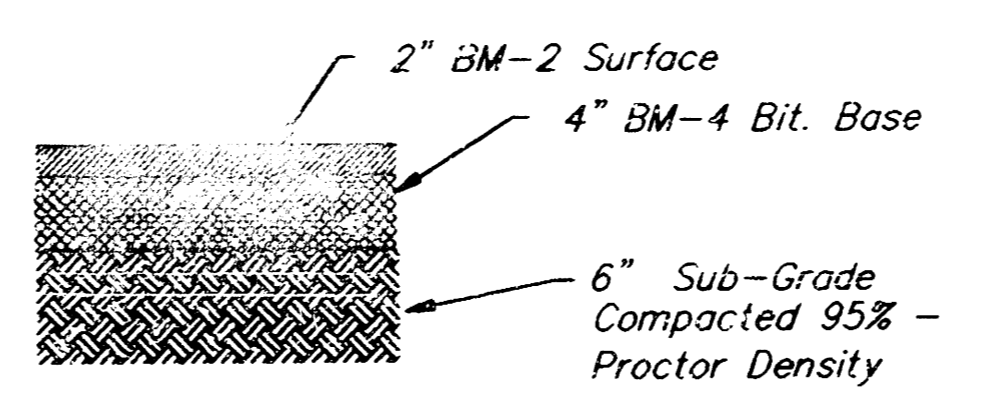
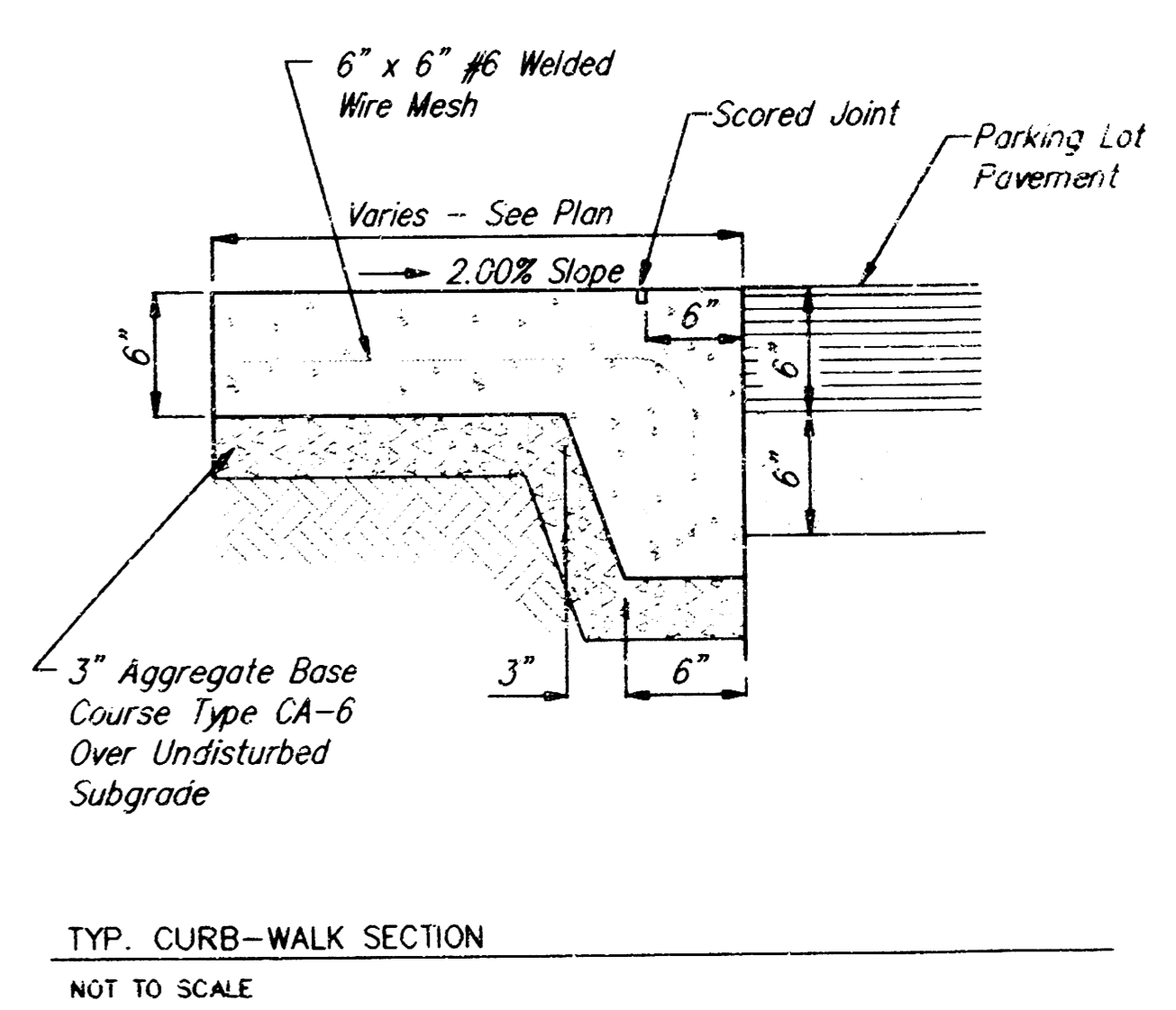
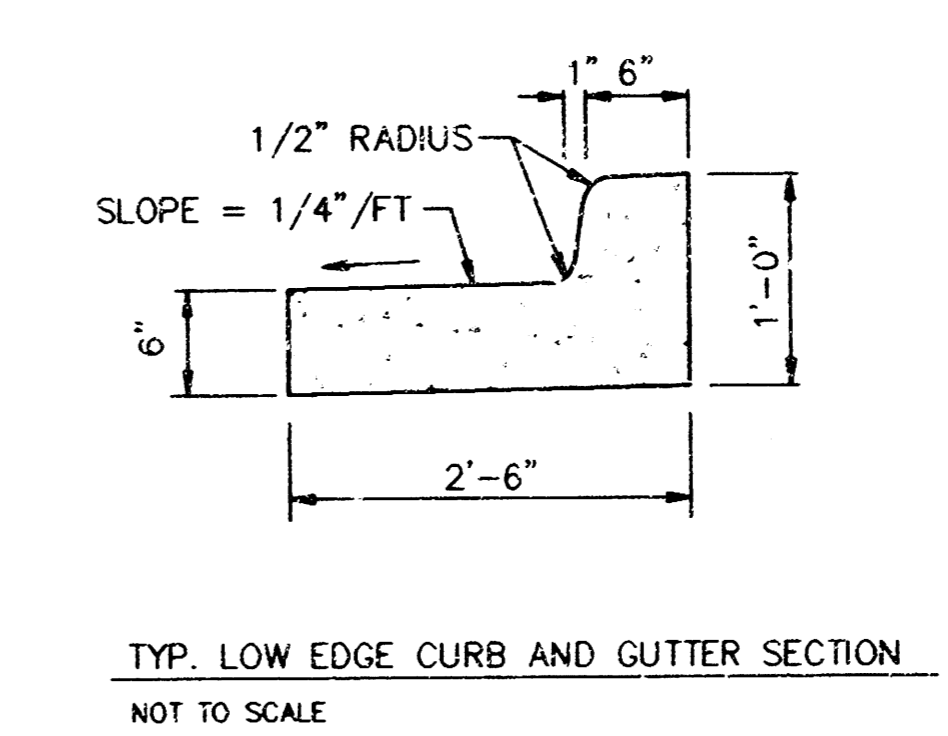
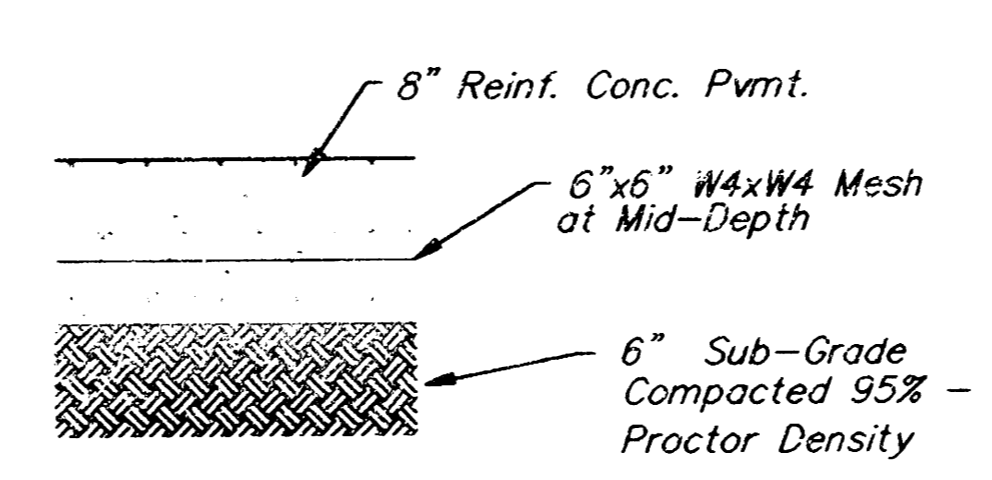
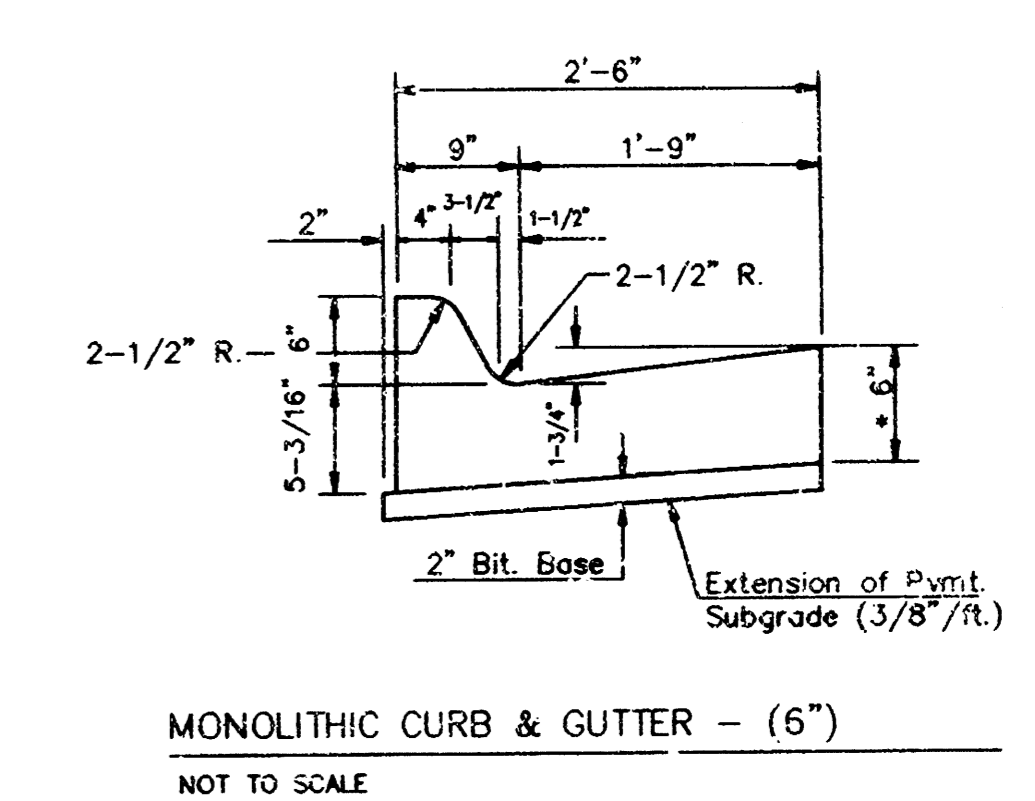
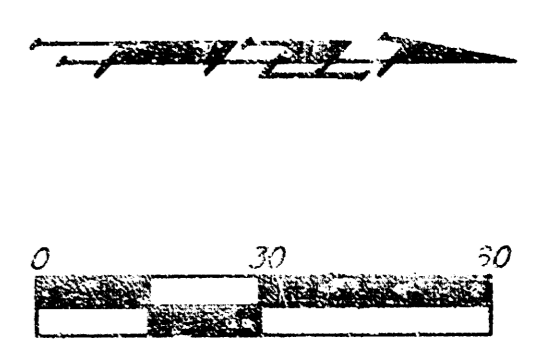
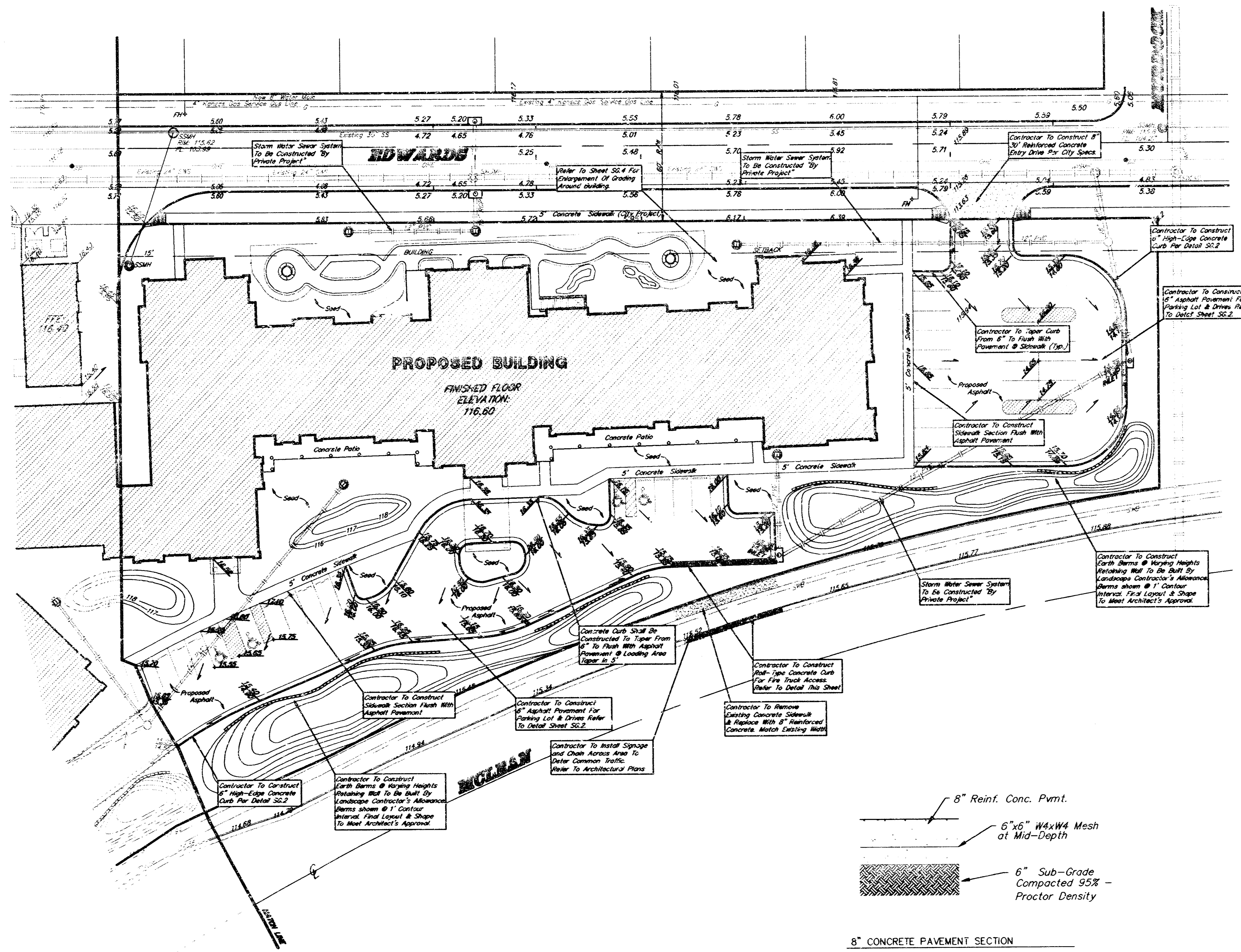


**RIVERSIDE HEALTH SYSTEM  
SITE GRADING**

**BAUGHMAN COMPANY P. A.**  
ENGINEERING, SURVEYING, & PLANNING  
316-262-7215 • WICHITA, KANSAS 67202

PROJECT NUMBER  
**825PPS(607861)**

DESIGN	DRAWN	APPROVED	DATE	SCALE	<b>2A</b> 13
NEW	JAS	NEW		SHOWN	



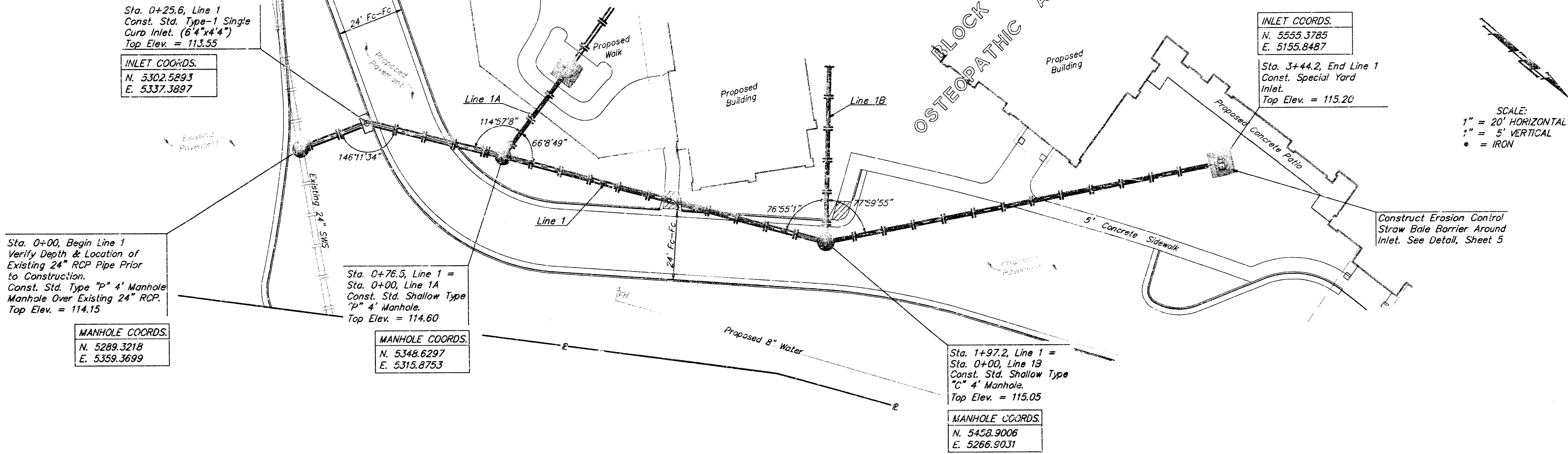
RIVERSIDE HEALTH SYSTEM  
**SITE GRADING**

**BAUGHMAN COMPANY P.A.**  
ENGINEERING, SURVEYING, & PLANNING  
315 E. FILLIS • WICHITA, KANSAS 67211

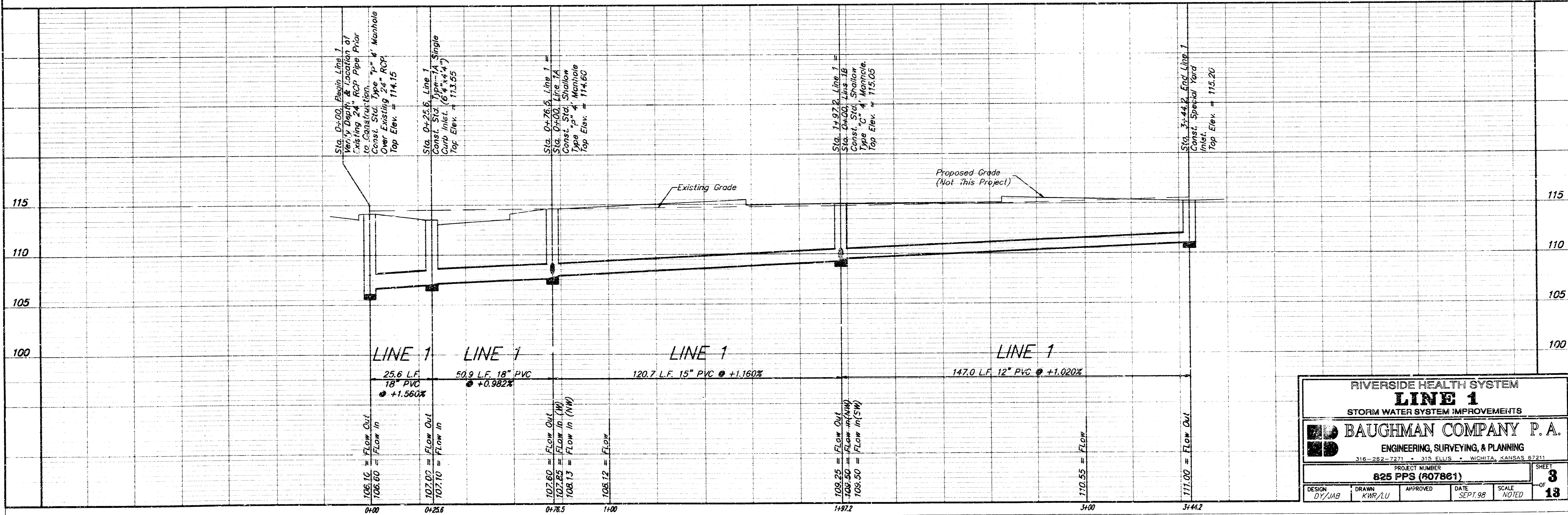
PROJECT NUMBER  
**825PPS(07081)**

DESIGN: NDW | DRAWN: JAB | APPROVED: NDW | DATE: | SCALE: SHOWN | SHEET: **2B** | 13

**BENCHMARK:**  
 "□" Located on top of curb West Side of Mclean Blvd. and South right-of-way line of vacated Murdock.  
 Elev. = 115.91 (City Datum)

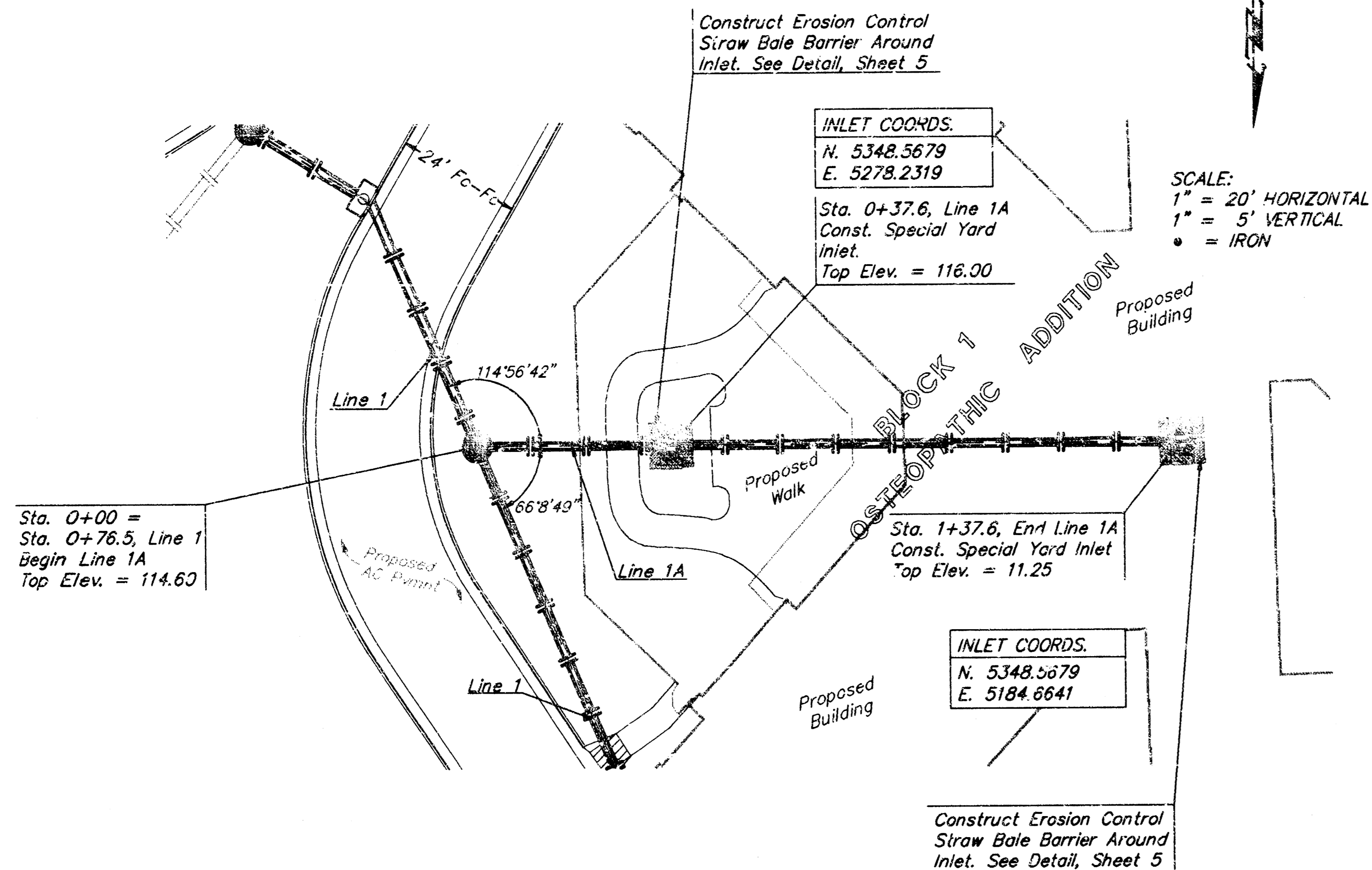


SCALE:  
 1" = 20' HORIZONTAL  
 1" = 5' VERTICAL  
 • = IRON

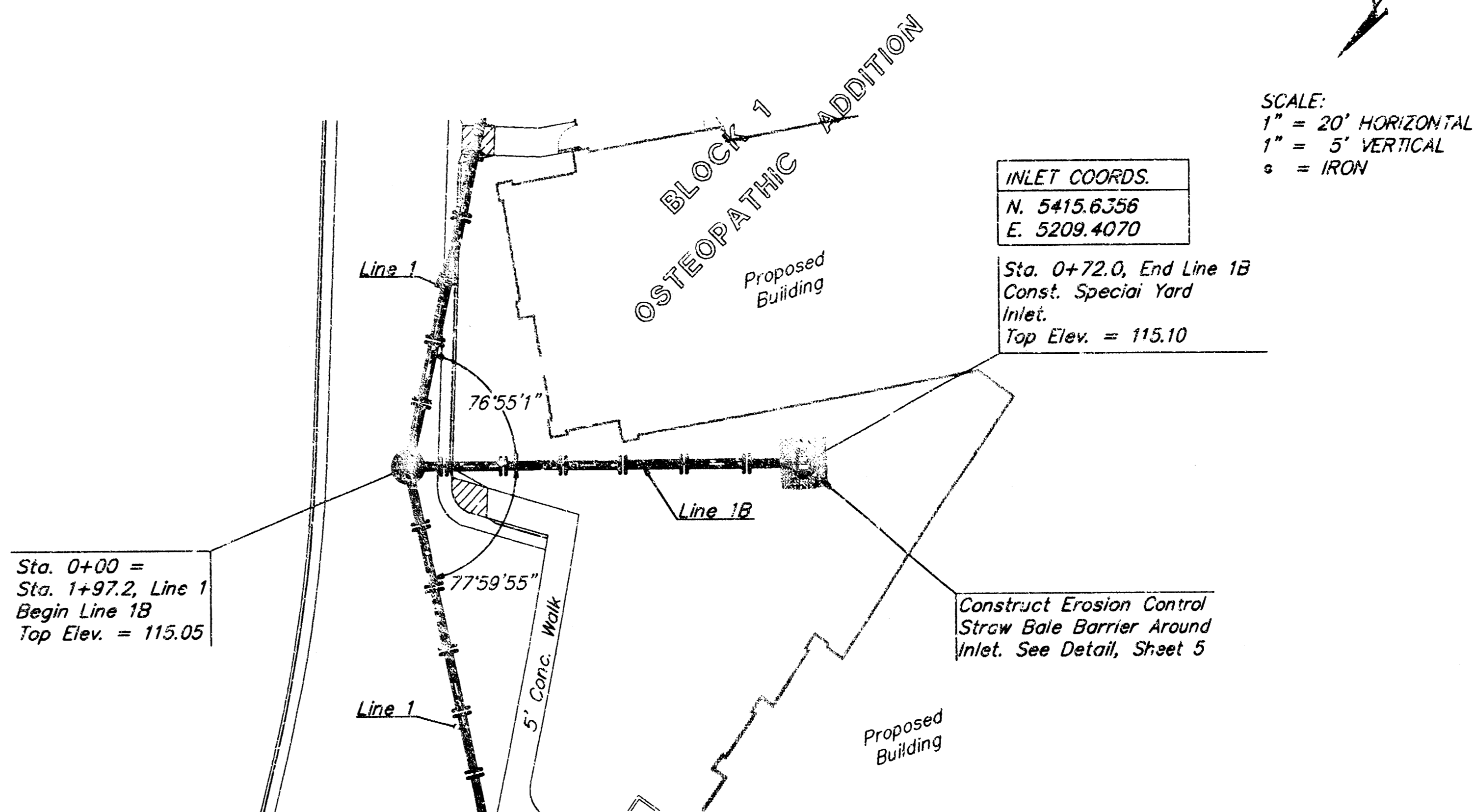


RIVERSIDE HEALTH SYSTEM			
<b>LINE 1</b>			
STORM WATER SYSTEM IMPROVEMENTS			
<b>BAUGHMAN COMPANY P. A.</b>			
ENGINEERING, SURVEYING, & PLANNING			
316-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
<b>825 PPS (807861)</b>		<b>3</b>	
DESIGN	DRAWN	APPROVED	DATE
DY/JAG	KWR/LLU		SEPT. 98
		SCALE	NOTED
			<b>13</b>

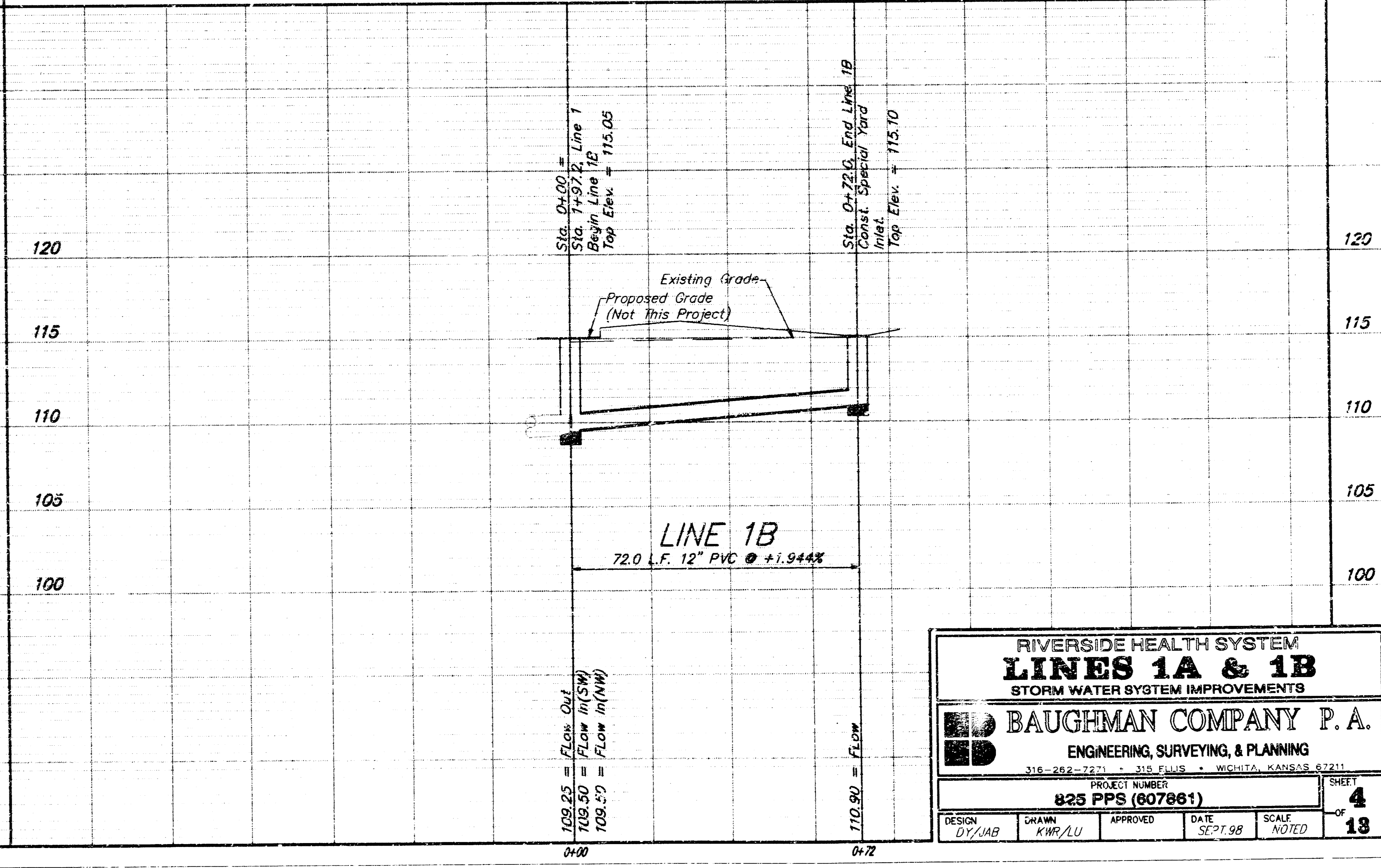
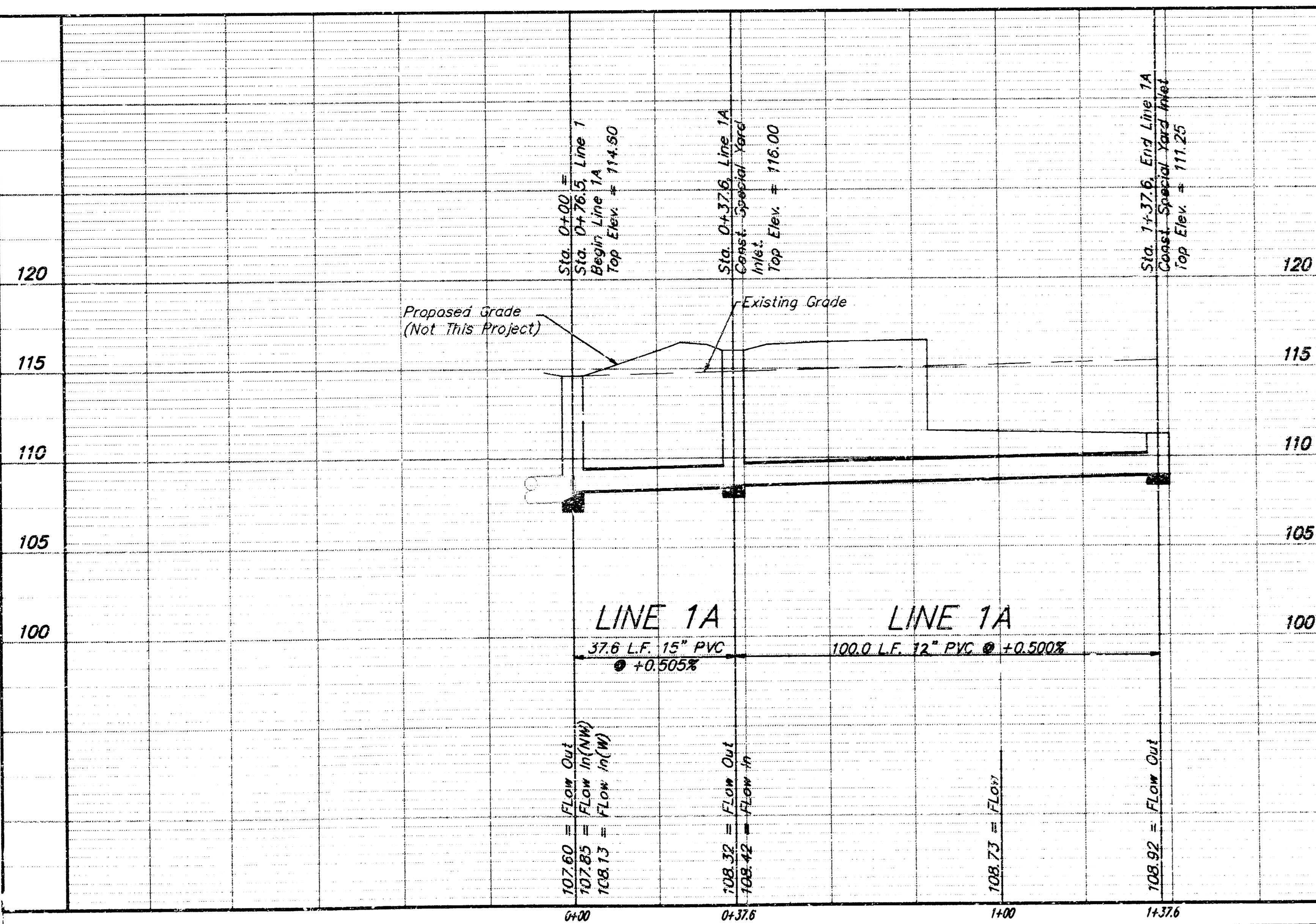
BENCHMARK:  
 "□" Located on top of West Side  
 of Mclean Blvd. and South right-of-way line  
 of vacated Murdock  
 Elev. = 115.91 (City Datum)



BENCHMARK:  
 "□" Located on top of West Side  
 of Mclean Blvd. and South right-of-way line  
 of vacated Murdock  
 Elev. = 115.91 (City Datum)



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



RIVERSIDE HEALTH SYSTEM  
**LINES 1A & 1B**  
 STORM WATER SYSTEM IMPROVEMENTS

**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING  
 316-262-1271 • 316-262-1272 • WICHITA, KANSAS 67211

PROJECT NUMBER: **825 PPS (607861)**

DESIGN: DY/JAB    CHAIRMAN: KWR/LU    APPROVED: \_\_\_\_\_    DATE: SEPT. 98    SCALE: NOTED    SHEET: **4** OF **13**

**BENCHMARK:**  
 "□" Located on top of West Side of McLean Blvd. and South right-of-way line of vacated Murdock  
 Elev. = 115.91 (City Datum)

**INLET COORDS.**  
 N. 5935.7886  
 E. 5101.1081

Sta. 0+88.7, Line 2  
 Const. Std. Type-1 Single Curb Inlet (6'4"x4'4")  
 Top Elev. = 114.35

**MANHOLE COORDS.**  
 N. 5826.5009  
 E. 5045.9357

Sta. 0+32.7, Line 2 =  
 Sta. 0+00, Line 2A  
 Const. Std. Shallow Type  
 7' 4" Manhole.  
 Top Elev. = 115.50

Sta. 0+00, Begin Line 2  
 Core Existing Manhole & Install 18" RCP. Seal New Pipe to Manhole Wall w/Gasket & Quikset Hydraulic Cement. Reshape Invert if Necessary. (This Work to be Incidental to Project Cost.)  
 Top Elev. = 115.60

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

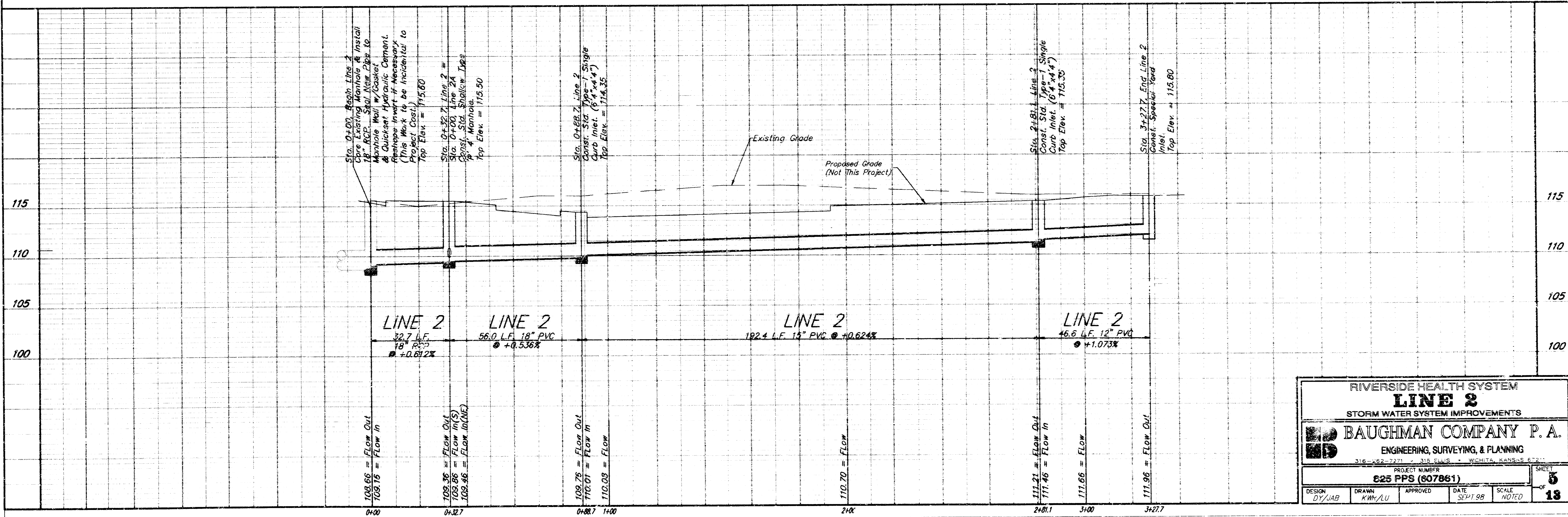
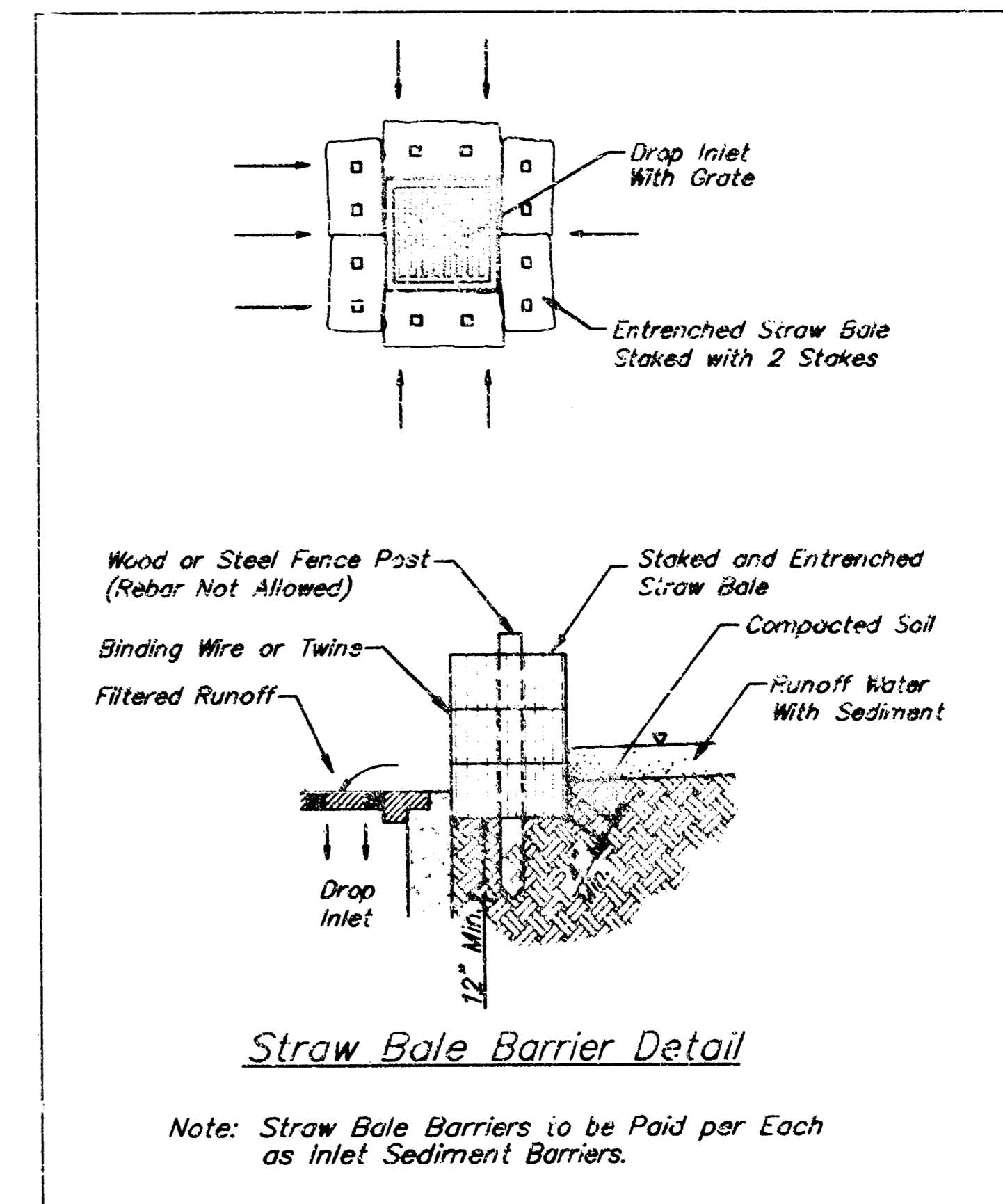
**INLET COORDS.**  
 N. 5765.0561  
 E. 5189.8938

Sta. 2+81.1, Line 2  
 Const. Std. Type-1 Single Curb Inlet (6'4"x4'4")  
 Top Elev. = 115.35

**INLET COORDS.**  
 N. 5764.8283  
 E. 5143.2501

Construct Erosion Control Straw Bale Barrier Around Inlet. See Detail, This Sheet

Sta. 3+27.7, End Line 2  
 Const. Special Yard Inlet.  
 Top Elev. = 115.80



RIVERSIDE HEALTH SYSTEM  
**LINE 2**  
 STORM WATER SYSTEM IMPROVEMENTS

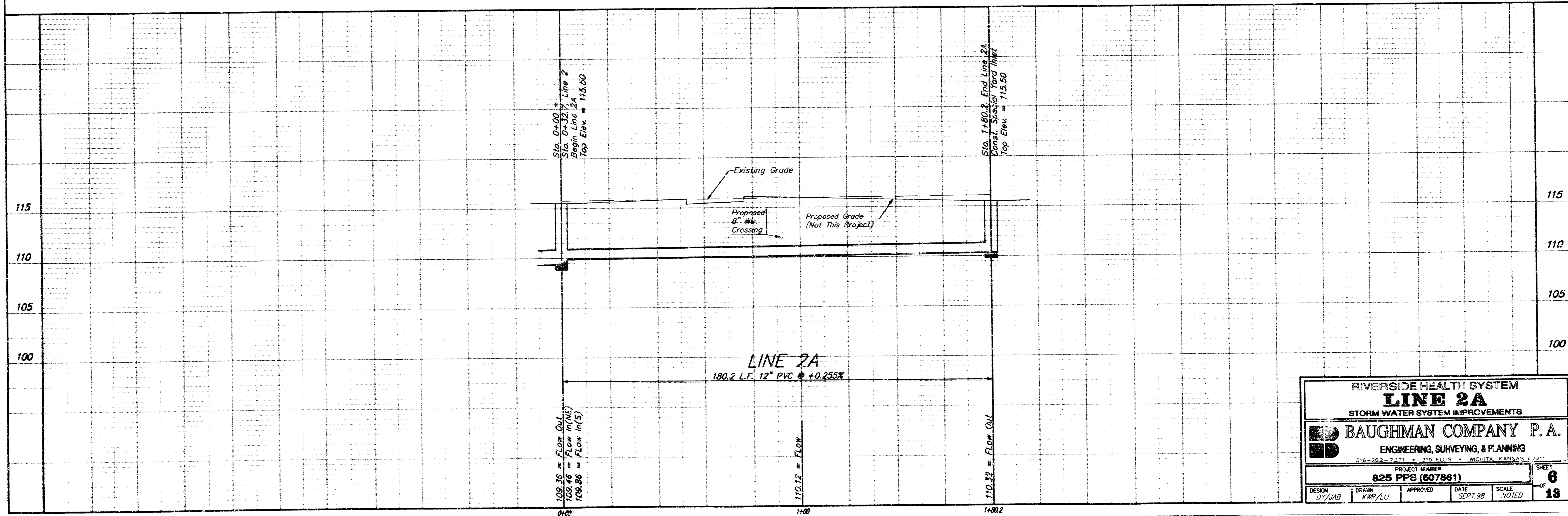
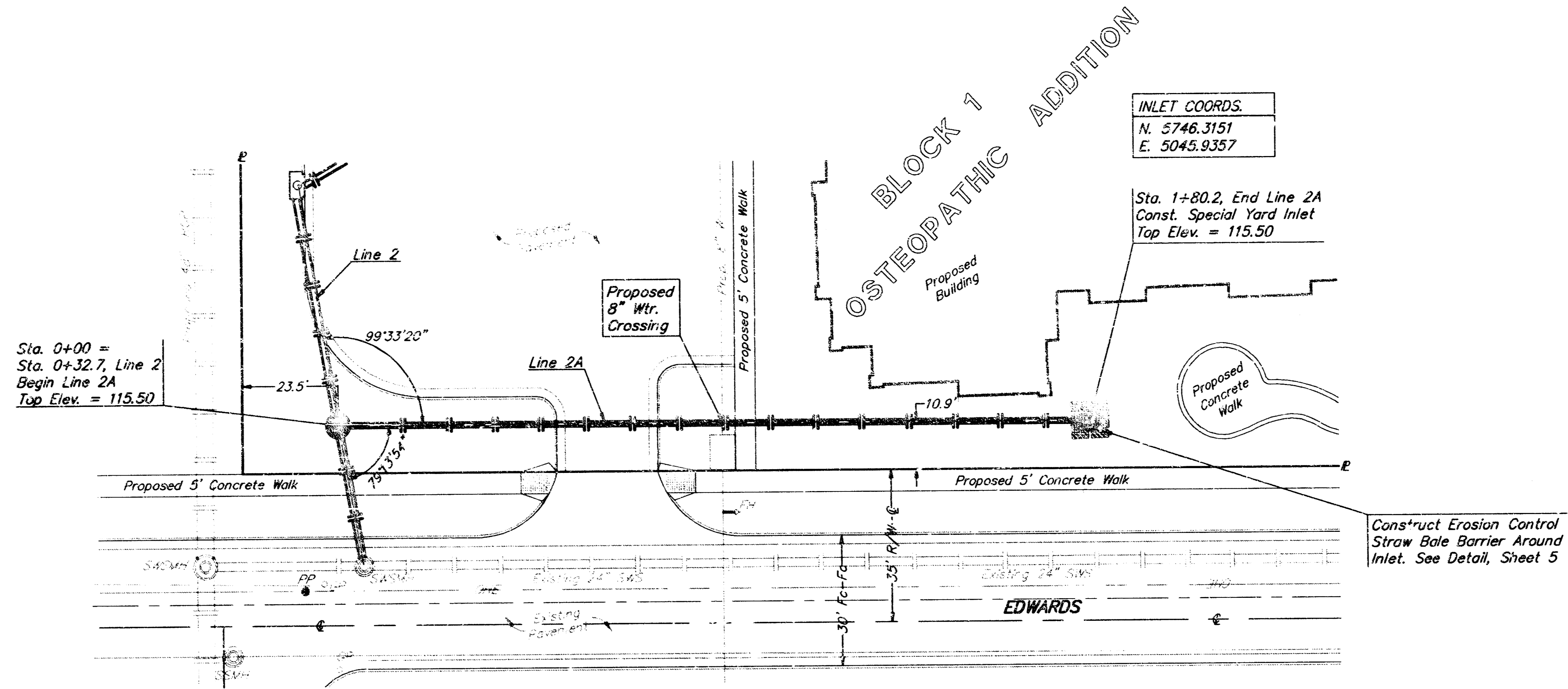
**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING

316-282-7271 • 312 E. 15th St. • WICHITA, KANSAS 67211

PROJECT NUMBER: 625 PPS (607861)  
 SHEET: 5 OF 13

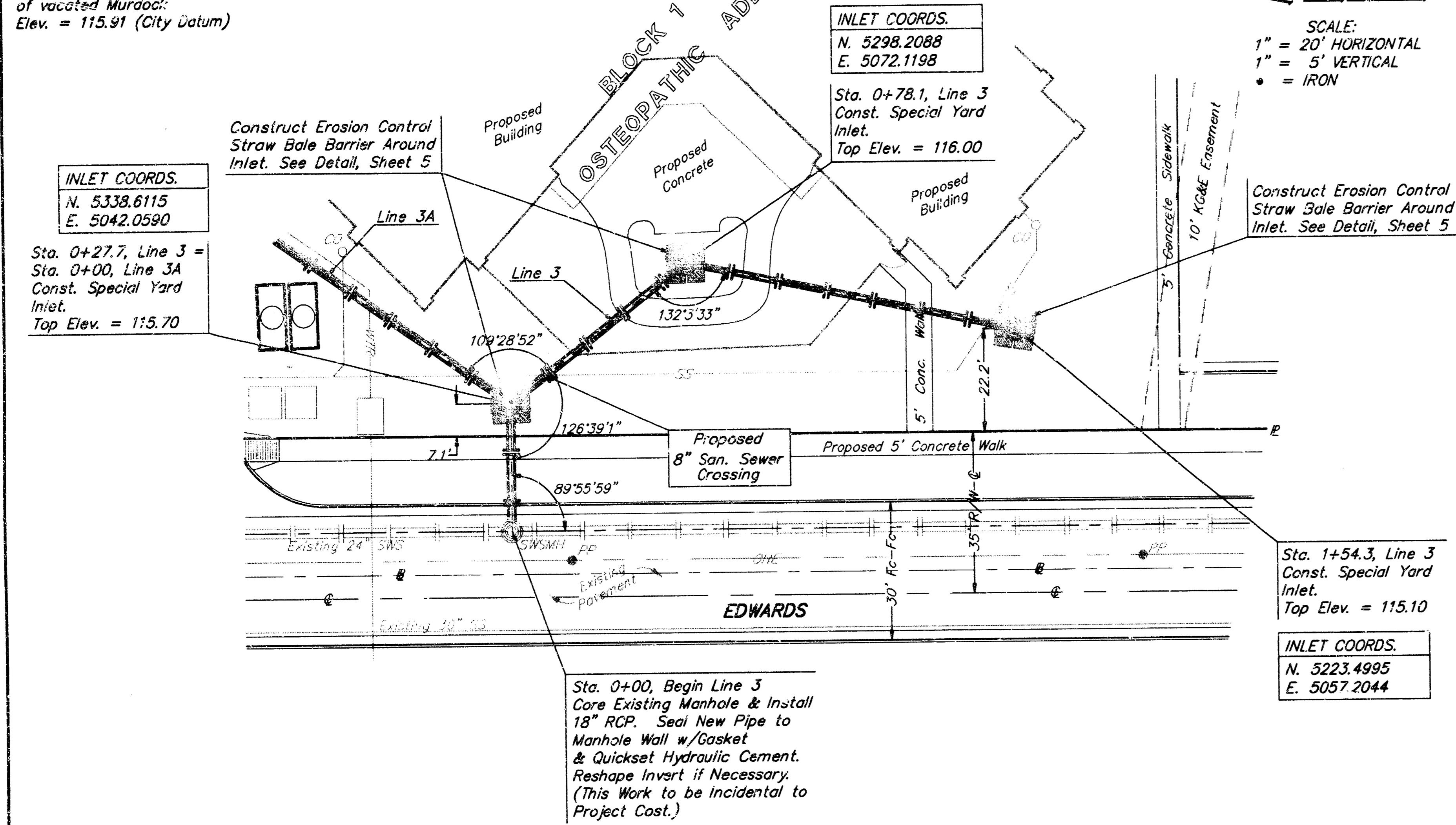
DESIGN: DY/JAB    DRAWN: KW/LU    APPROVED: [Signature]    DATE: SEPT 98    SCALE: NOTED

BENCHMARK:  
 "□" Located on top of West Side  
 of Mission Blvd. and South right-of-way line  
 of vacated Murdock  
 Elev. = 115.91 (City Datum)

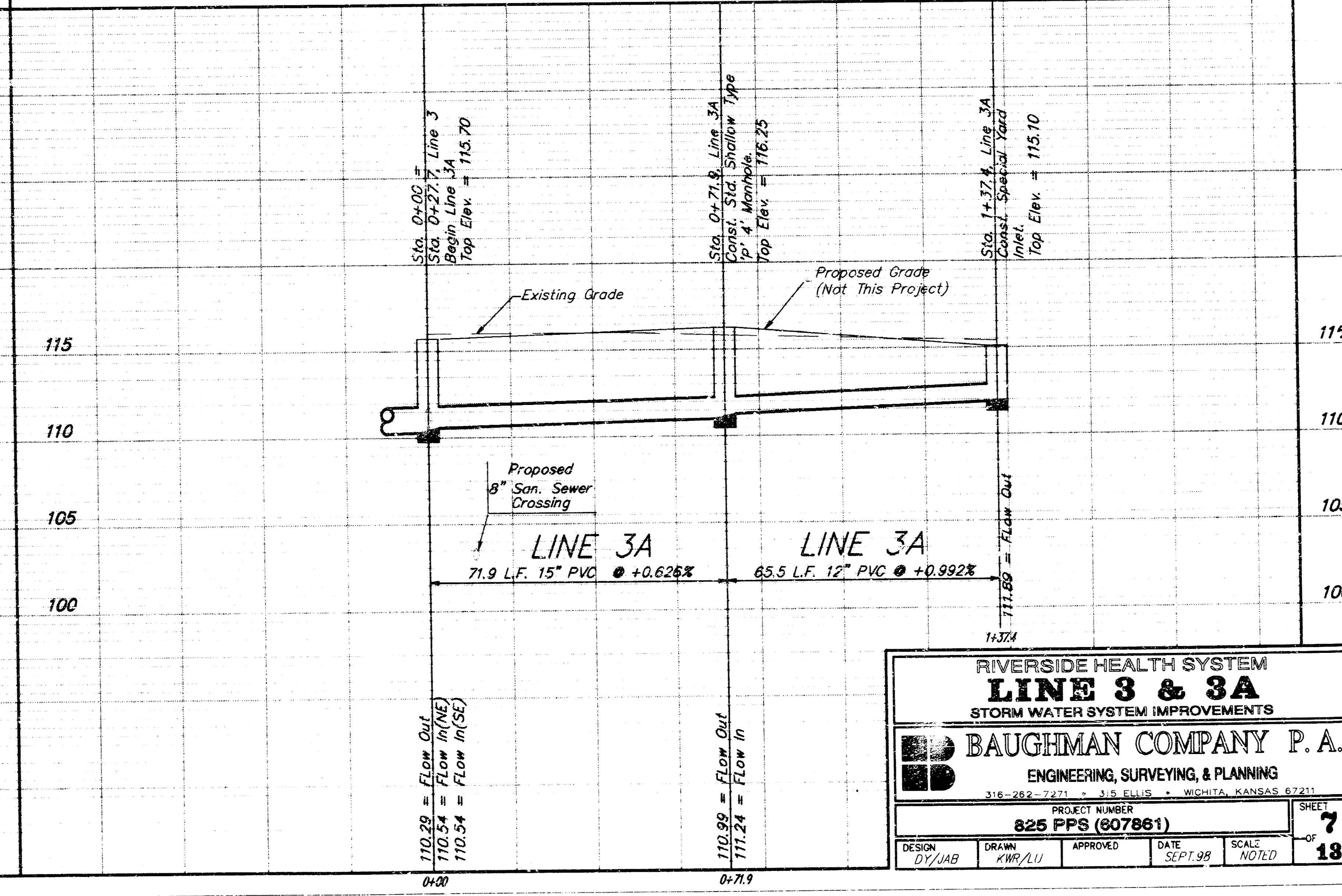
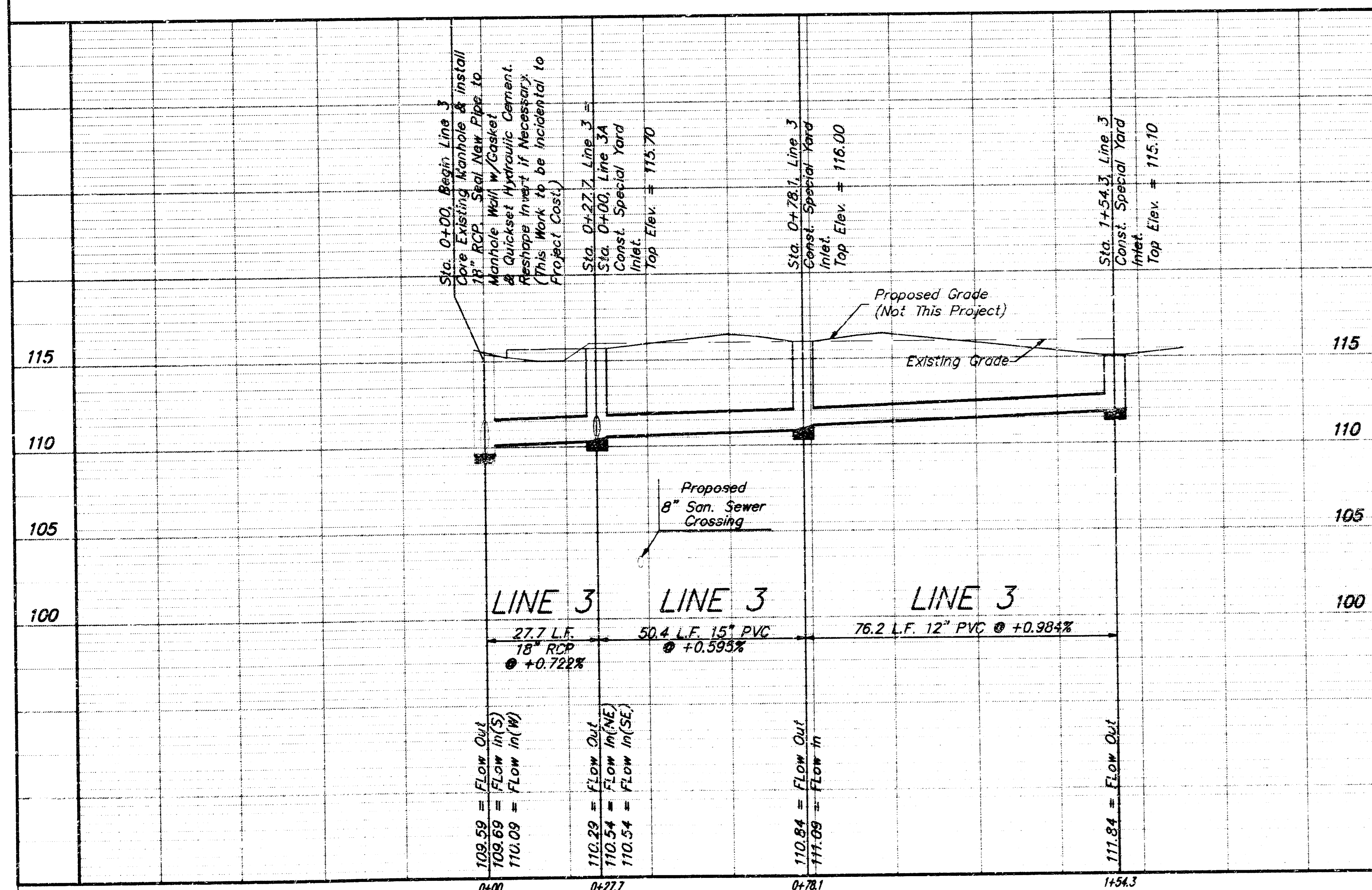
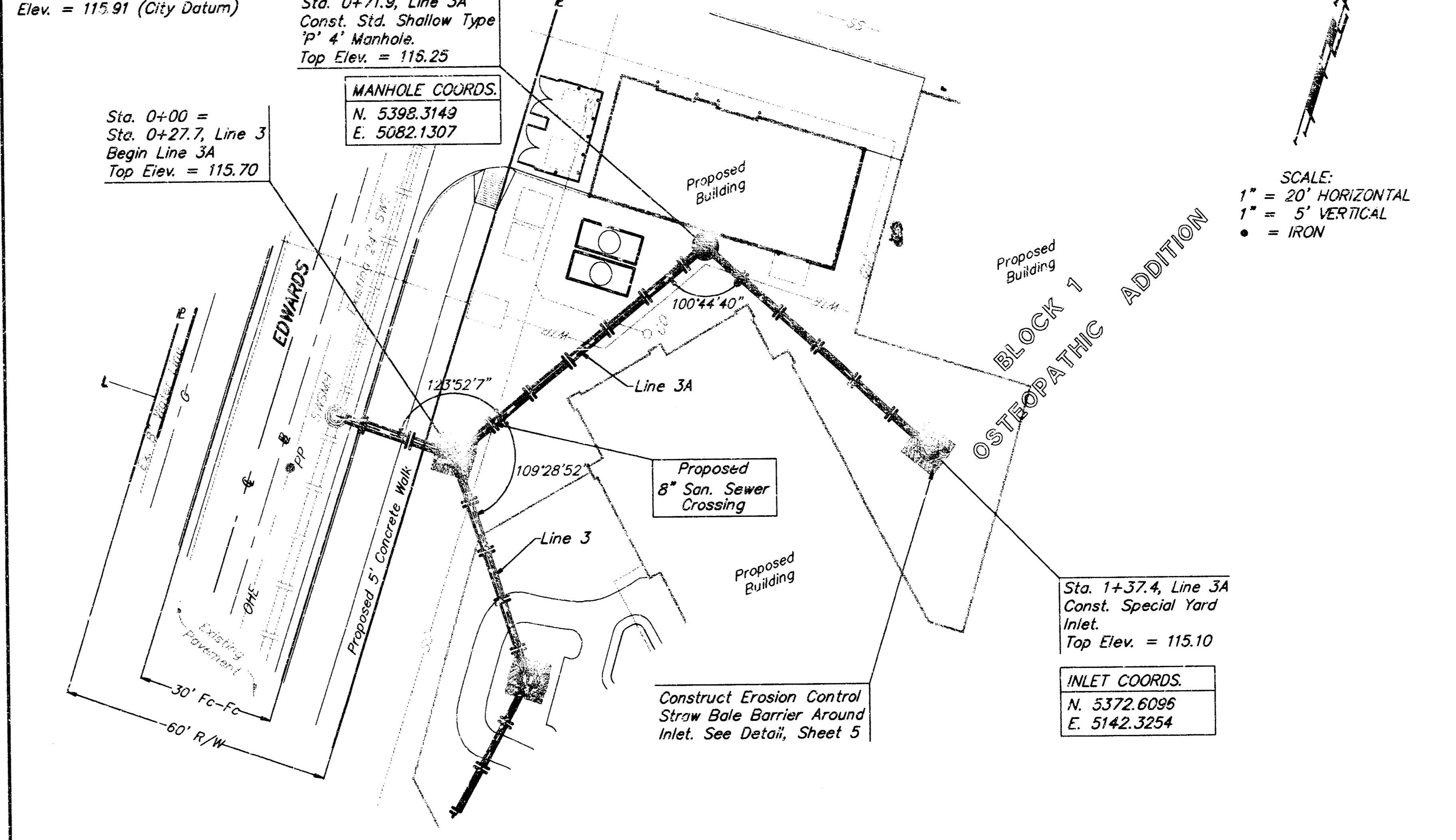


RIVERSIDE HEALTH SYSTEM			
<b>LINE 2A</b>			
STORM WATER SYSTEM IMPROVEMENTS			
<b>BAUGHMAN COMPANY P.A.</b>			
ENGINEERING, SURVEYING, & PLANNING			
216-262-2421 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
825 PFS (607861)		6	
DESIGN	DRAWN	APPROVED	SCALE
DY/JAB	KWP/LU	SEPT 98	NOTED

BENCHMARK:  
 "□" Located on top of West Side  
 of Mclain Blvd. and South right-of-way line  
 of vacated Murdock.  
 Elev. = 115.91 (City Datum)



BENCHMARK:  
 "□" Located on top of West Side  
 of Mclain Blvd. and South right-of-way line  
 of vacated Murdock.  
 Elev. = 115.91 (City Datum)



RIVERSIDE HEALTH SYSTEM  
**LINE 3 & 3A**  
 STORM WATER SYSTEM IMPROVEMENTS

BAUGHMAN COMPANY P. A.  
 ENGINEERING, SURVEYING, & PLANNING  
 316-282-7271 • 315 ELLIS • WICHITA, KANSAS 67201

PROJECT NUMBER  
**825 PFS (807861)**

DESIGN: DT/JAB DRAWN: KWR/LU APPROVED: DATE: SEPT 99 SCALE: NOTED SHEET: **7** OF **13**

**BENCHMARK:**  
 □ Located on top of West Side of McLean Blvd. and South right-of-way line of vacated sidewalk  
 Elev. = 115.91 (City Datum)

**MANHOLE COORDS.**  
 N. 5619.9976  
 E. 5039.0000

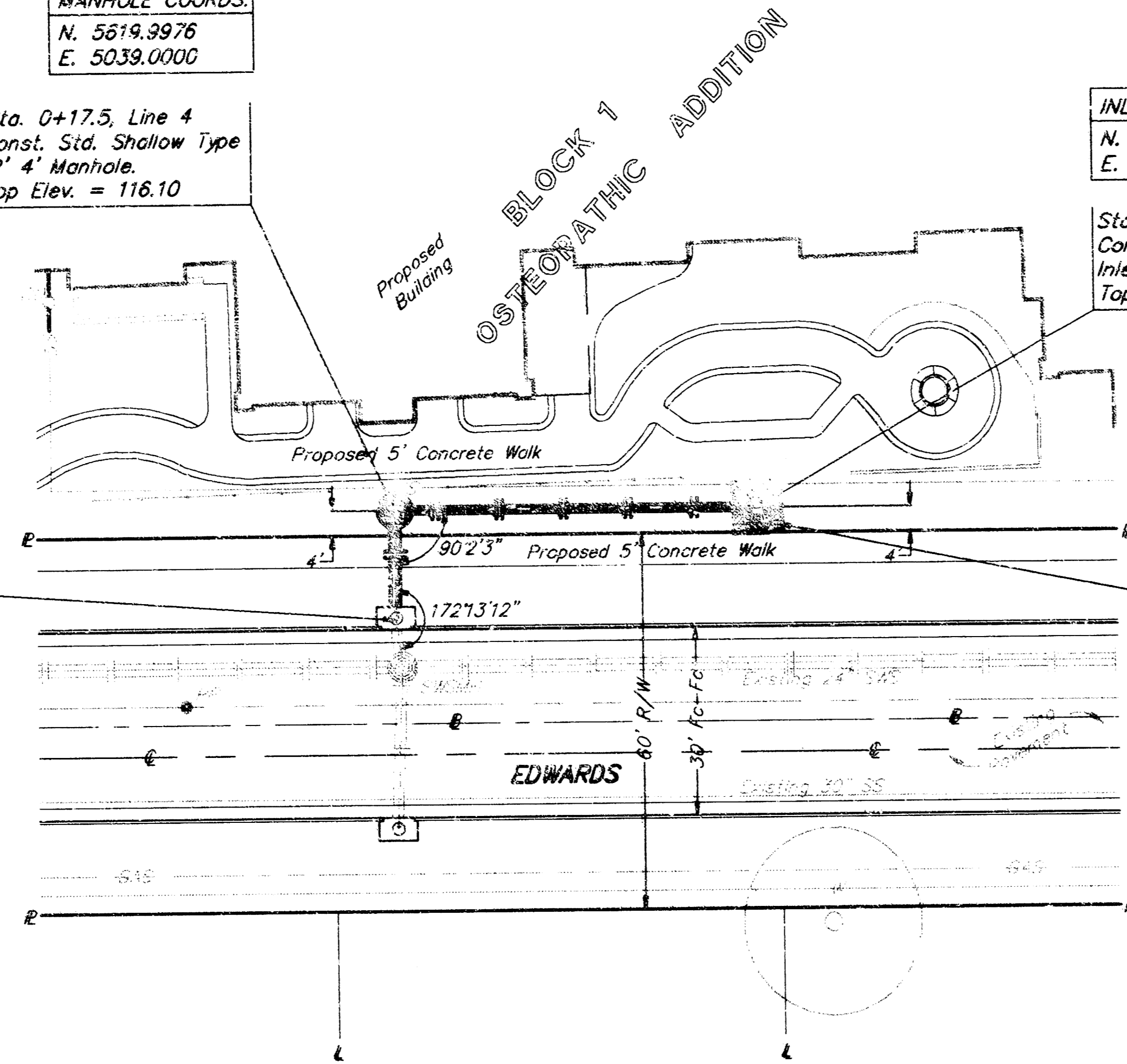
Sta. 0+17.5, Line 4  
 Const. Std. Shallow Type  
 'P' 4' Manhole.  
 Top Elev. = 116.10

**INLET COORDS.**  
 N. 5658.6772  
 E. 5039.0000

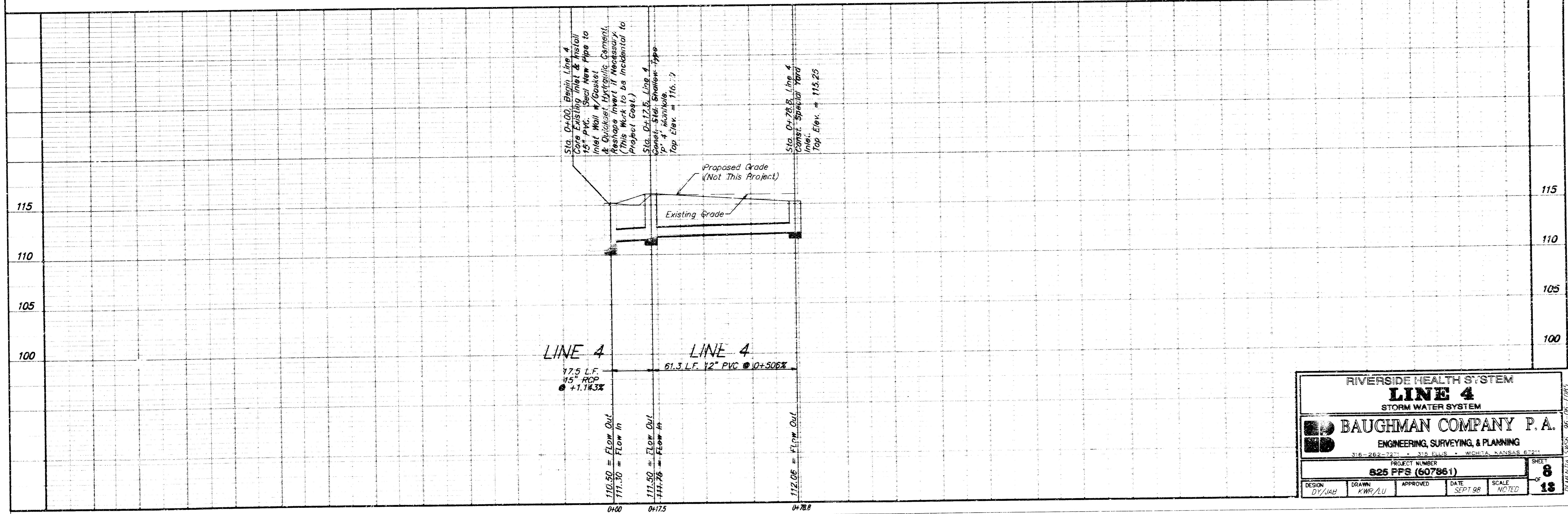
Sta. 0+78.8, Line 4  
 Const. Special Yard  
 Inlet.  
 Top Elev. = 115.25

**SCALE:**  
 1" = 20' HORIZONTAL  
 1" = 5' VERTICAL  
 • = IRGN

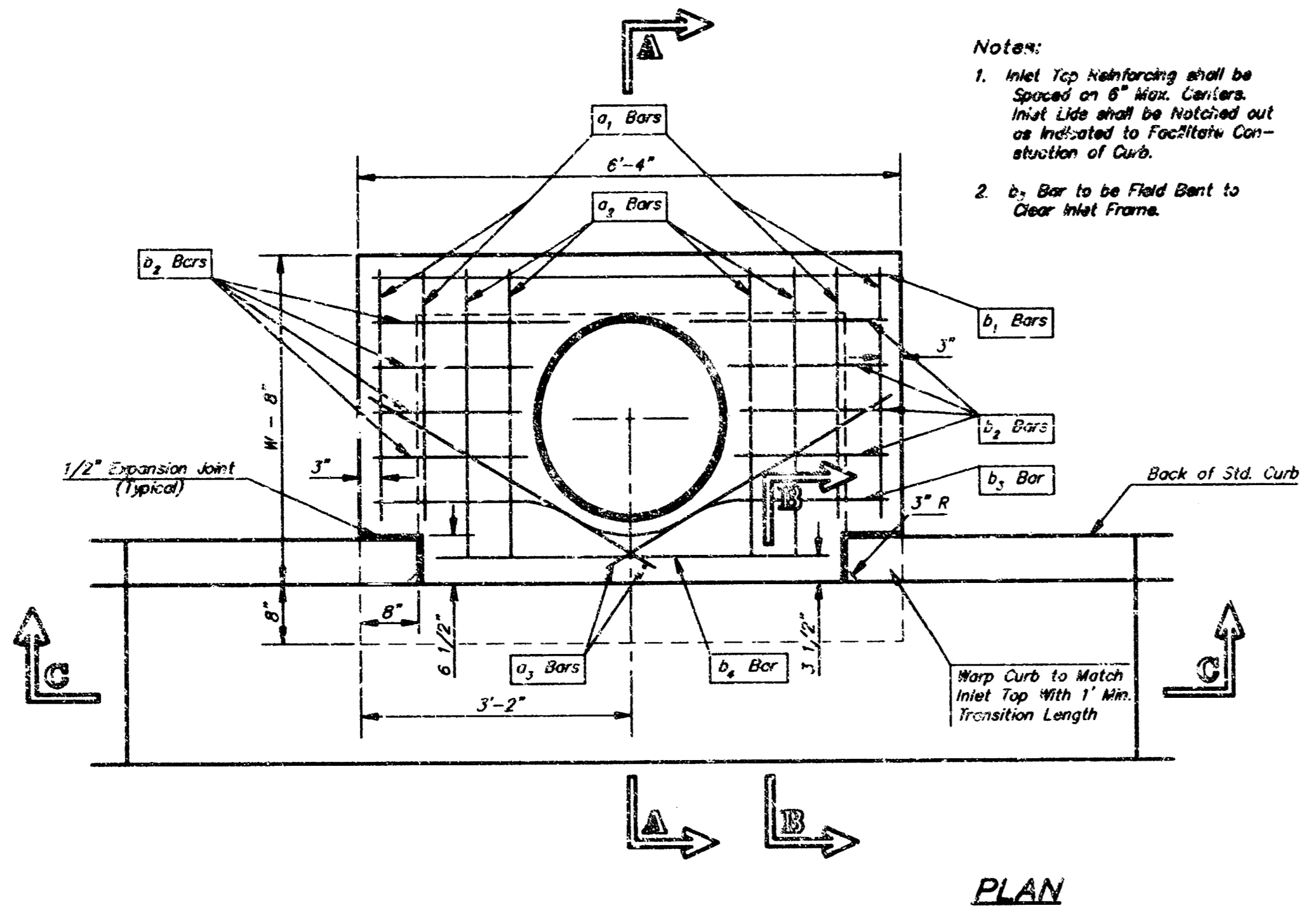
Sta. 0+00, Begin Line 4  
 Core Existing Inlet & Install  
 15" RCP. Seal New Pipe to  
 Inlet Wall w/Gasket  
 & Quikset Hydraulic Cement.  
 Reshape Invert if Necessary.  
 (This Work to be Incidental to  
 Project Cost.)



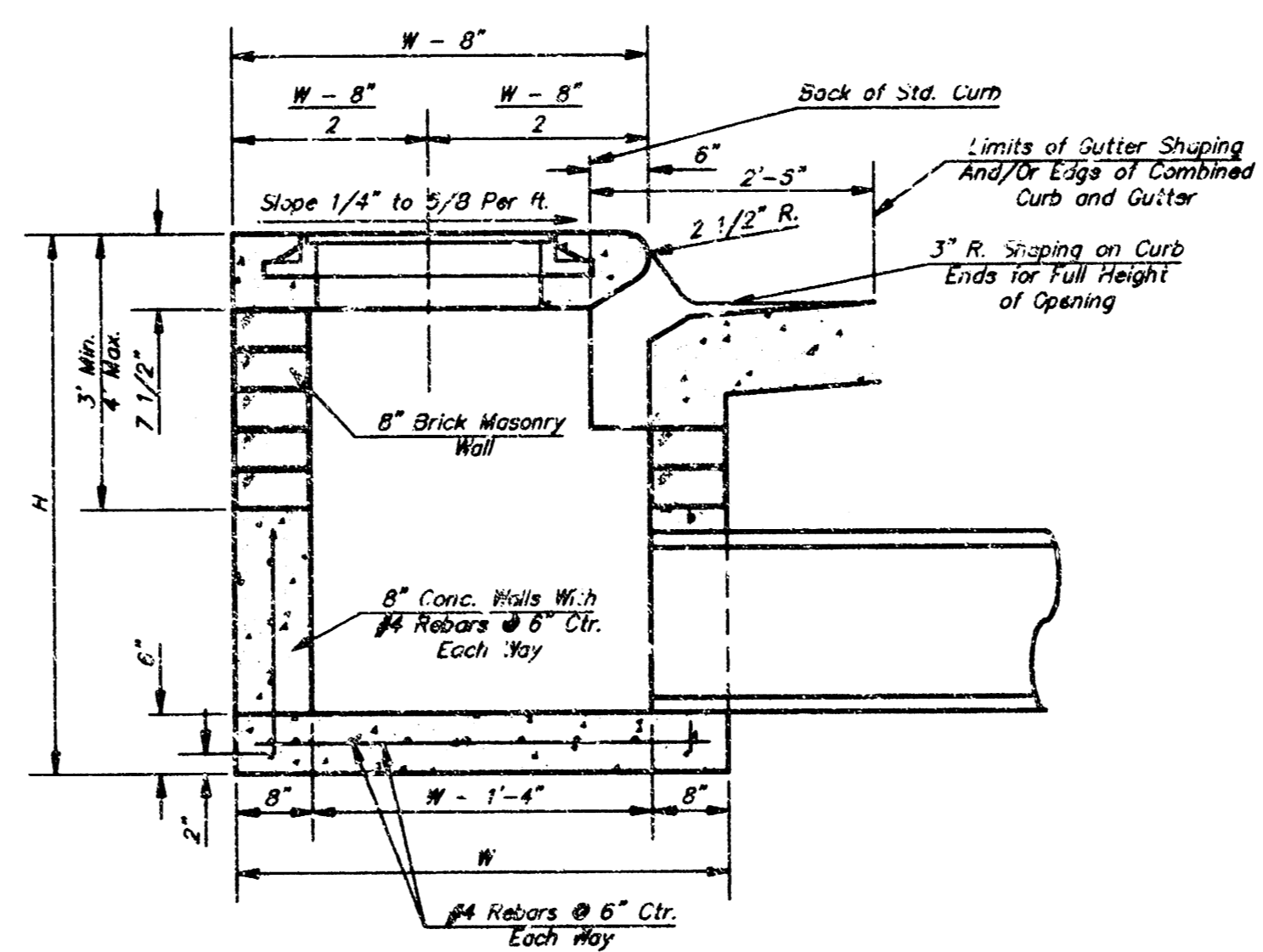
Construct Erosion Control  
 Straw Bale Barrier Around  
 Inlet. See Detail, Sheet 5



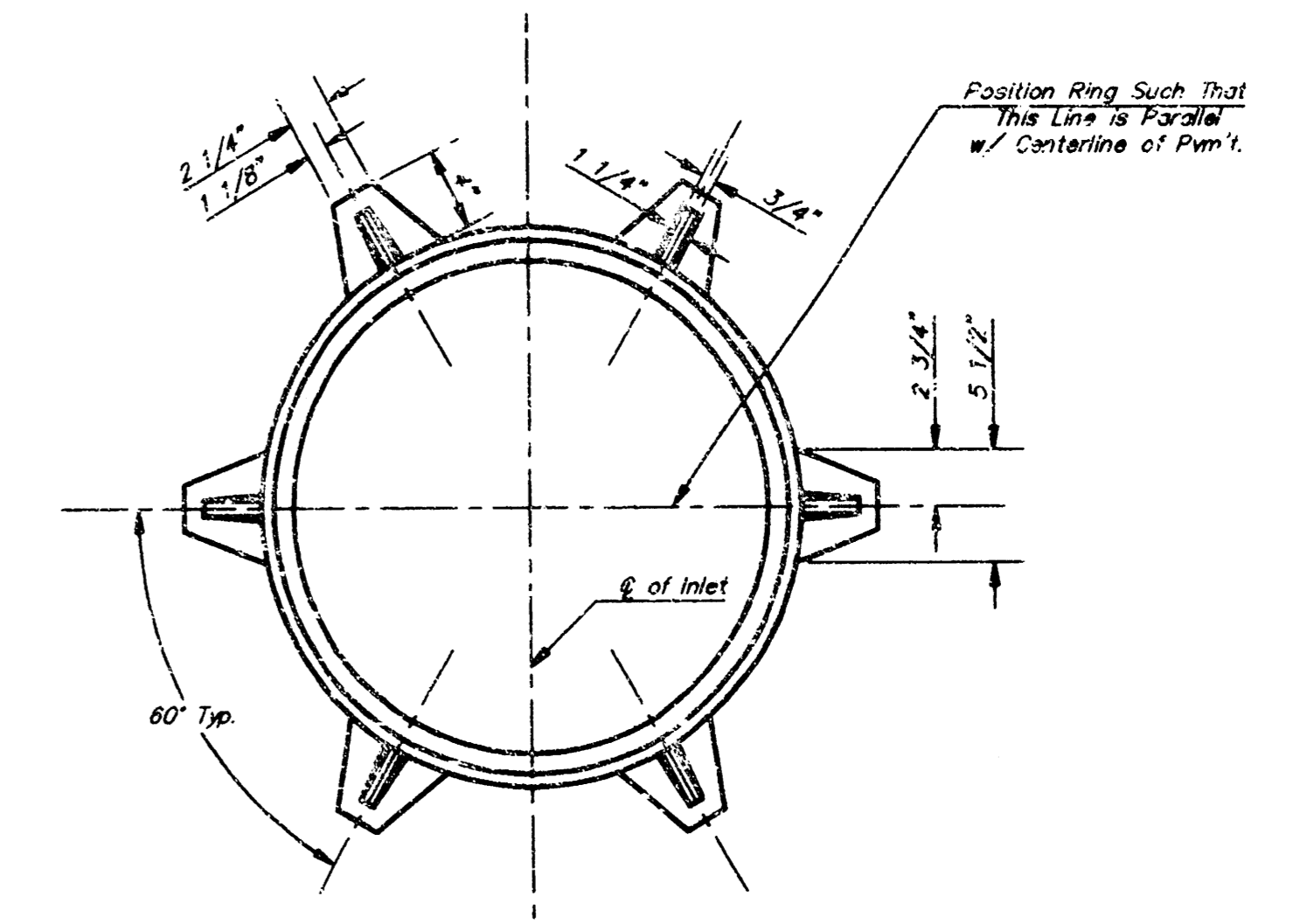
RIVERSIDE HEALTH SYSTEM			
<b>LINE 4</b>			
STORM WATER SYSTEM			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
318 - 262 - 2411 • 312 E. 10th • WICHITA, KANSAS 67214			
PROJECT NUMBER		SHEET	
825 FFS (607861)		8	
DESIGN	DRAWN	APPROVED	DATE
DY/JAB	KWF/ALU		SEPT 98
SCALE		NOTED	
		13	



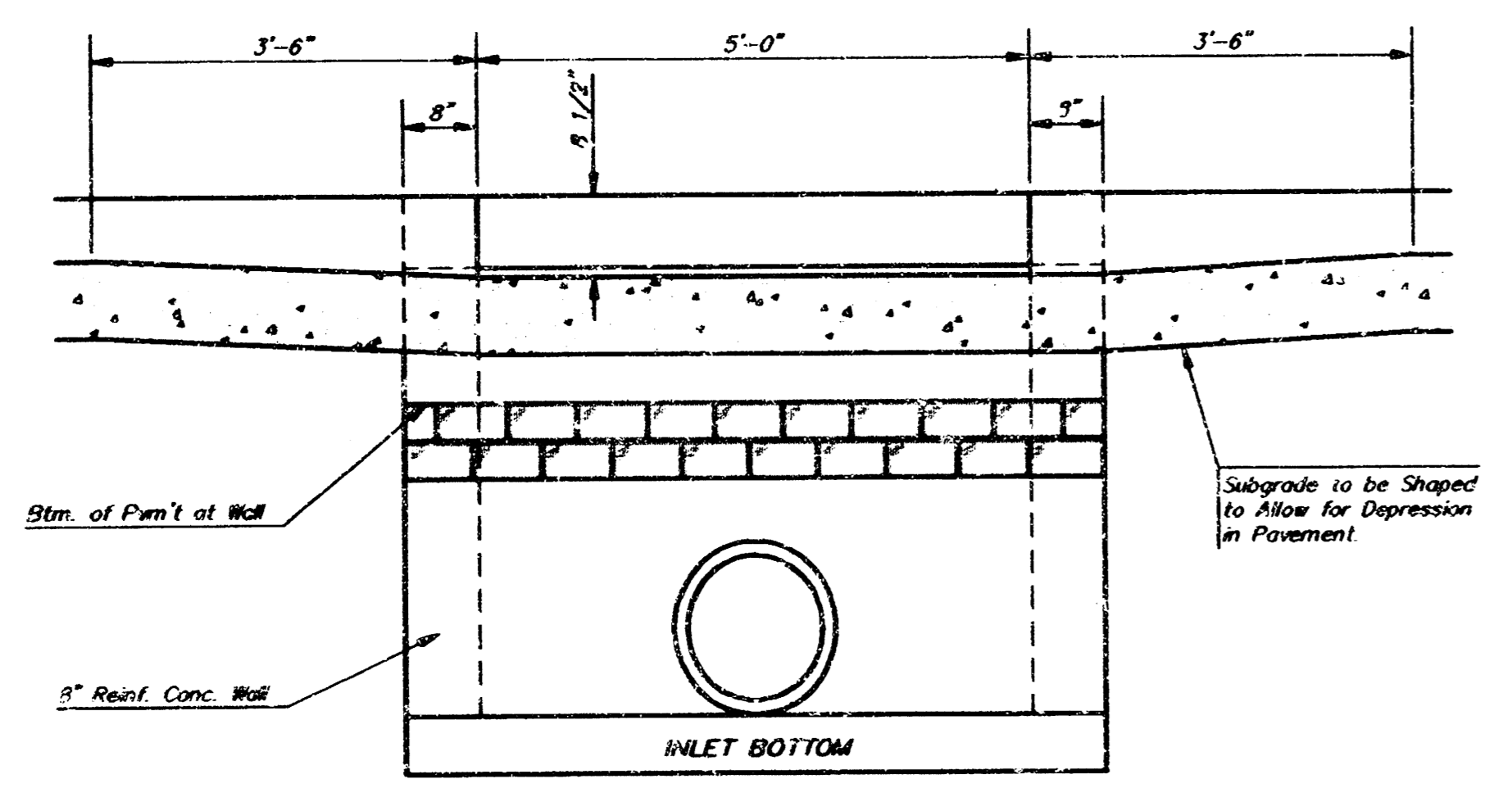
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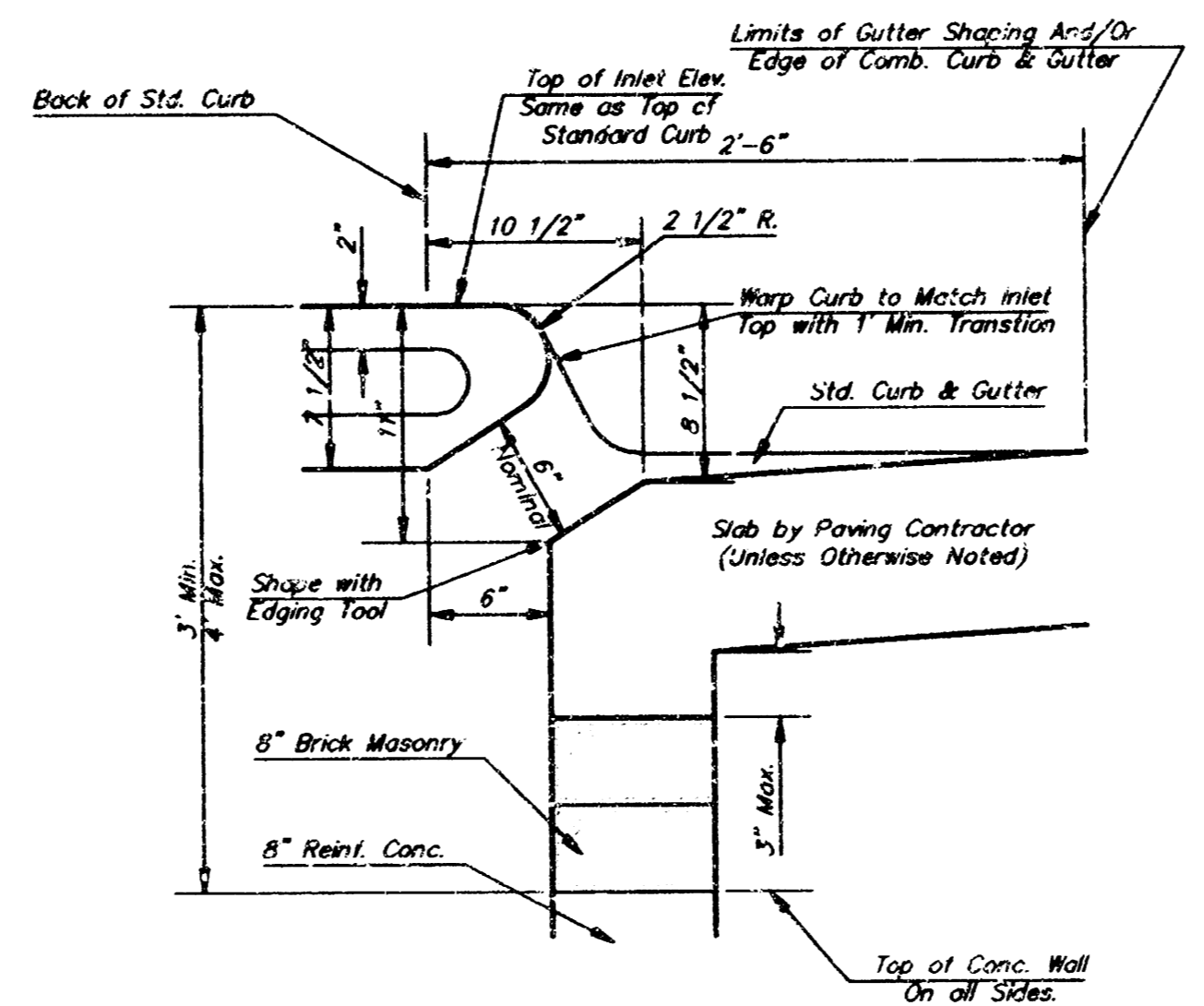
SECTION A-A



MANHOLE RING AND COVER



SECTION C-C



SECTION B-B

BENDING DIAGRAM

STEEL SCHEDULE

BAR NUMBER	SIZE										WT. LBS.
	a <sub>1</sub>	a <sub>2</sub>	a <sub>3</sub>	a <sub>4</sub>	a <sub>5</sub>	a <sub>6</sub>	a <sub>7</sub>	a <sub>8</sub>	a <sub>9</sub>	a <sub>10</sub>	
#1-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	60±
#2-5-4"	7'-7"	8'-7"	5'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	87±
#3-6-4"	9'-7"	10'-7"	5'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	101±
#4-7-4"	11'-7"	12'-7"	7'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	121±
#5-8-4"	13'-7"	14'-7"	8'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	141±

Note: a<sub>2</sub> Bars to be Placed Approx. 2" Below Top of Inlet Cover.

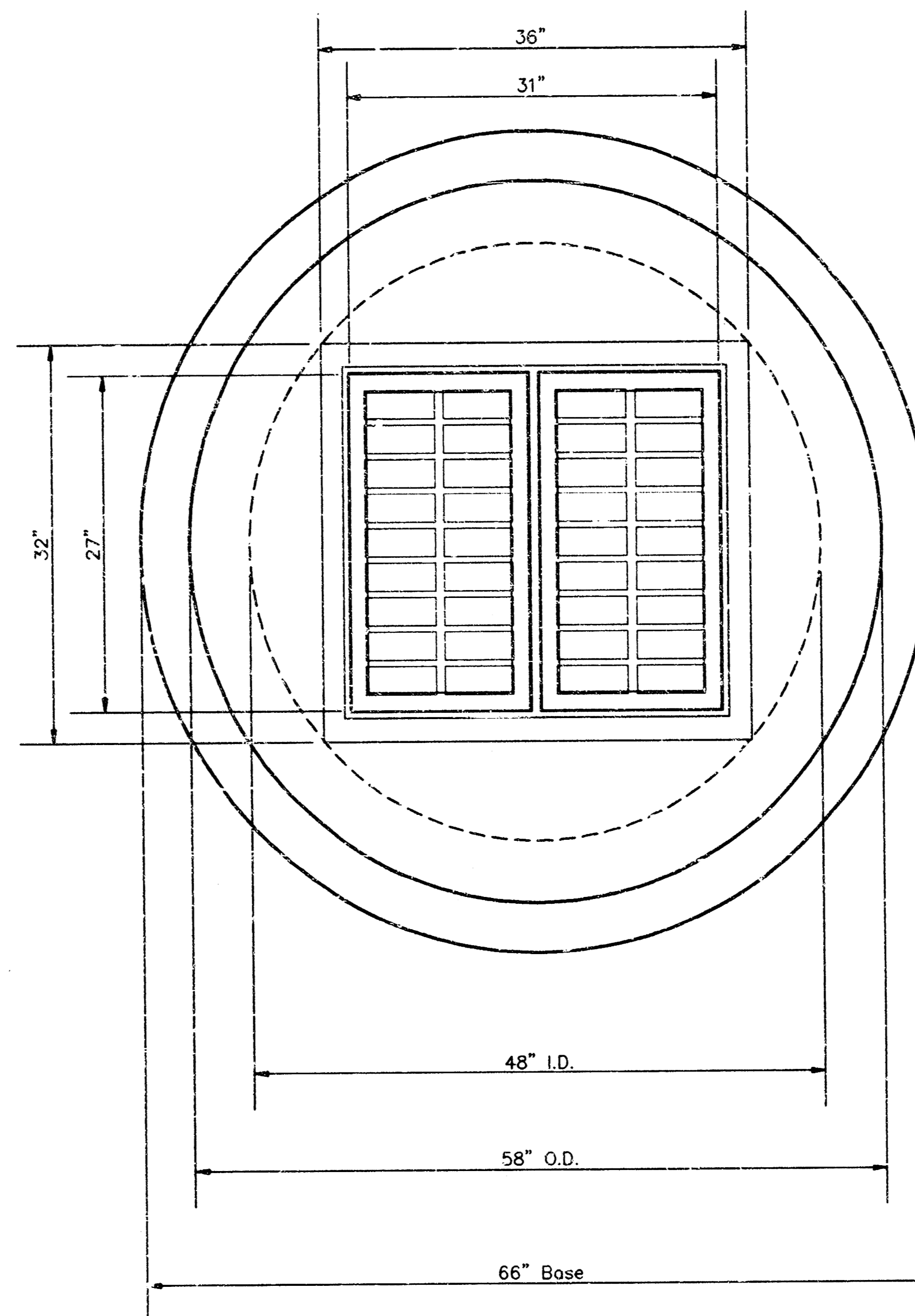
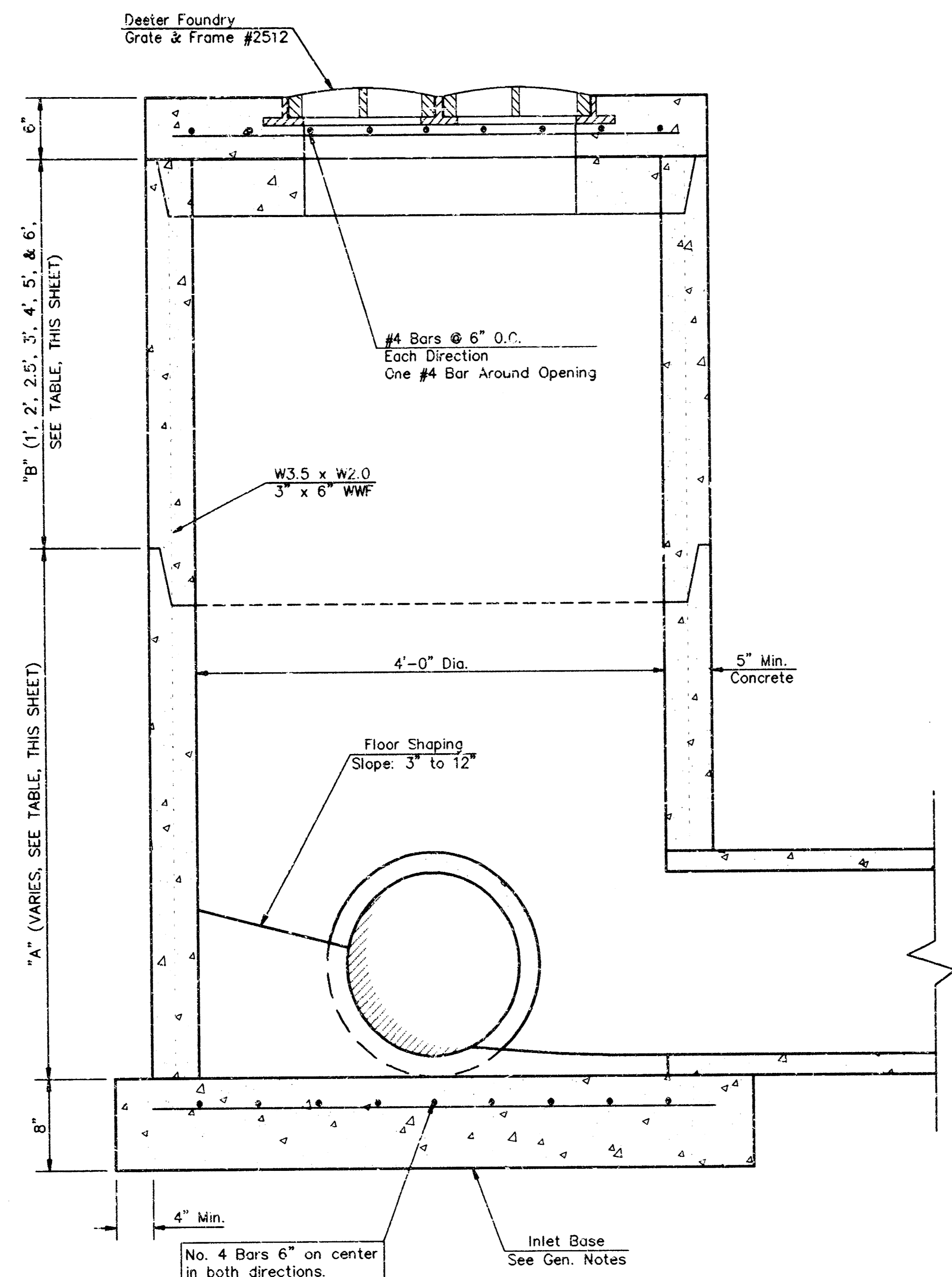
W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD CONC.
4'-4"	3'-8" 6'-4" 1 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 1 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 1 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 1 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 1 1/2"	60" & 66"	0.90±

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

MODIFIED CURB INLET  
**TYPE 1 CURB INLET**  
 BAUGHMAN COMPANY P. A.  
 ENGINEERING, SURVEYING, & PLANNING  
 318-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211  
 PROJECT NUMBER  
**825PPS(607881)**  
 SHEET  
**9**  
 OF  
**13**



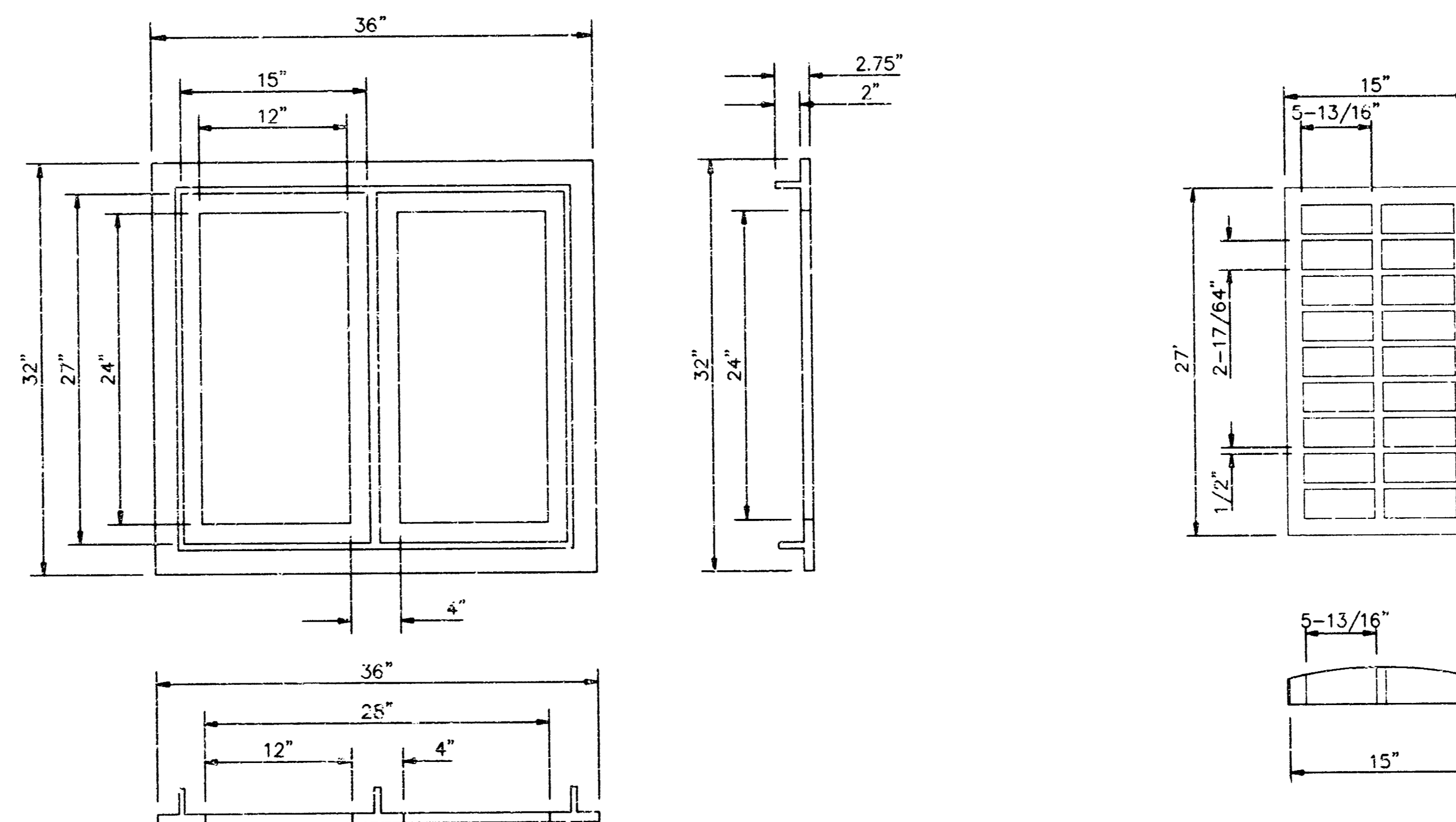


**GENERAL NOTES**

- Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in yard inlet 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.
- Reinforcing steel shall be installed in the yard inlet bases and shall consist of no. 4 bars placed on 6" centers in both directions. The yard inlet base reinforcement shall be placed 6" above the bottom of the yard inlet base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the yard inlet.
- The floors of all yard inlet shall be shaped with flow channels such that the inlets will be self cleaning and free of areas where solids could be deposited. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Inlet 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 inlets shall have the top half removed to neat lines for the full inside diameter of the inlet. Inlet 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 inlet shall be cradled with concrete to the limits of the inlet excavation. When clay pipe is used, the cradle shall extend to the first joint outside the inlet. 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 inlet excavation or to clay pipe joints adjacent to inlet shall be included in the unit price bid for the inlet.
- Inlet grate castings and inlet frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawing.
- The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
- Joints between inlet sections to be sealed with two wraps of extruded butyl rubber joint mastic meeting City of Wichita Type "P" Manhole Specifications.
- Special yard inlet shall be paid for at the unit price bid per each. All standard yard inlet diameters will be 4'.

**YARD INLET**

LINE #	COORD.	TOP OF INLET	INLET FLOW
1	N5302.5893 E5337.3897	CURB	107.00
1	N5555.3785 E5155.8487	SPECIAL YARD	111.00
1A	N5348.5879 E5278.2319	SPECIAL YARD	108.32
1A	N5348.5679 E5184.6641	SPECIAL YARD	108.73
1B	N5415.6356 E5209.4070	SPECIAL YARD	110.90
2	N5935.7886 E5101.1081	CURB	109.76
2	N5765.0561 E5189.8938	CURB	111.21
2	N5764.8283 E5143.2501	SPECIAL YARD	111.96
2A	N5745.3151 E5045.9357	SPECIAL YARD	110.32
3	N5338.6115 E5042.0590	SPECIAL YARD	110.29
3	N5298.2088 E5072.1198	SPECIAL YARD	110.84
3	N5223.4995 E5057.2044	SPECIAL YARD	111.64
3A	N5372.6096 E5142.3254	SPECIAL YARD	111.89
4	N5558.6772 E5039.0000	SPECIAL YARD	112.06



DEETER #2512 CATCH BASIN INLET GRATE & FRAME

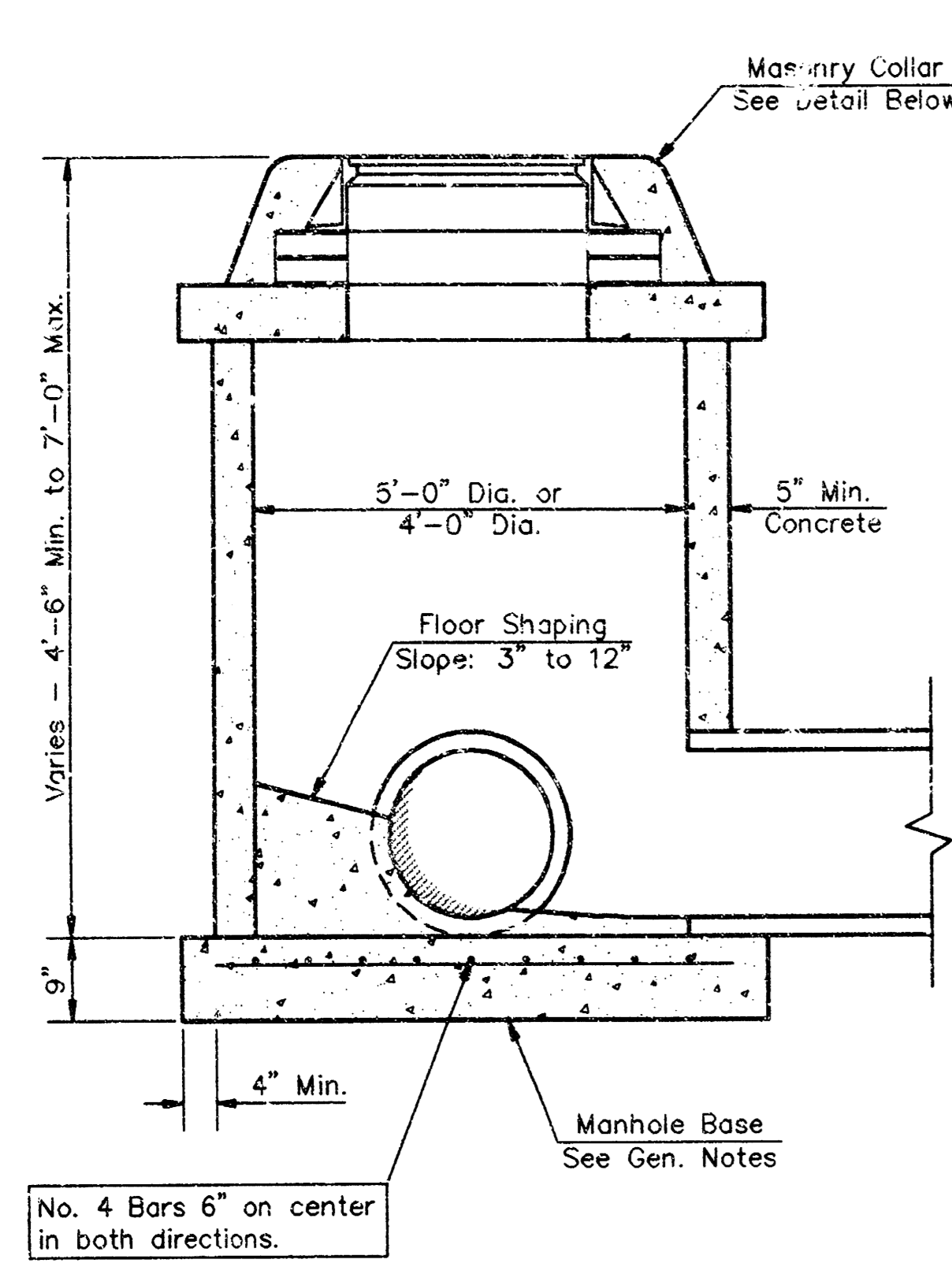
**SPECIAL YARD INLET**  
WICHITA, KANSAS

**BAUGHMAN COMPANY P. A.**  
ENGINEERING, SURVEYING, & PLANNING  
316-262-7821 315 E. MAIN - WICHITA, KANSAS 67211

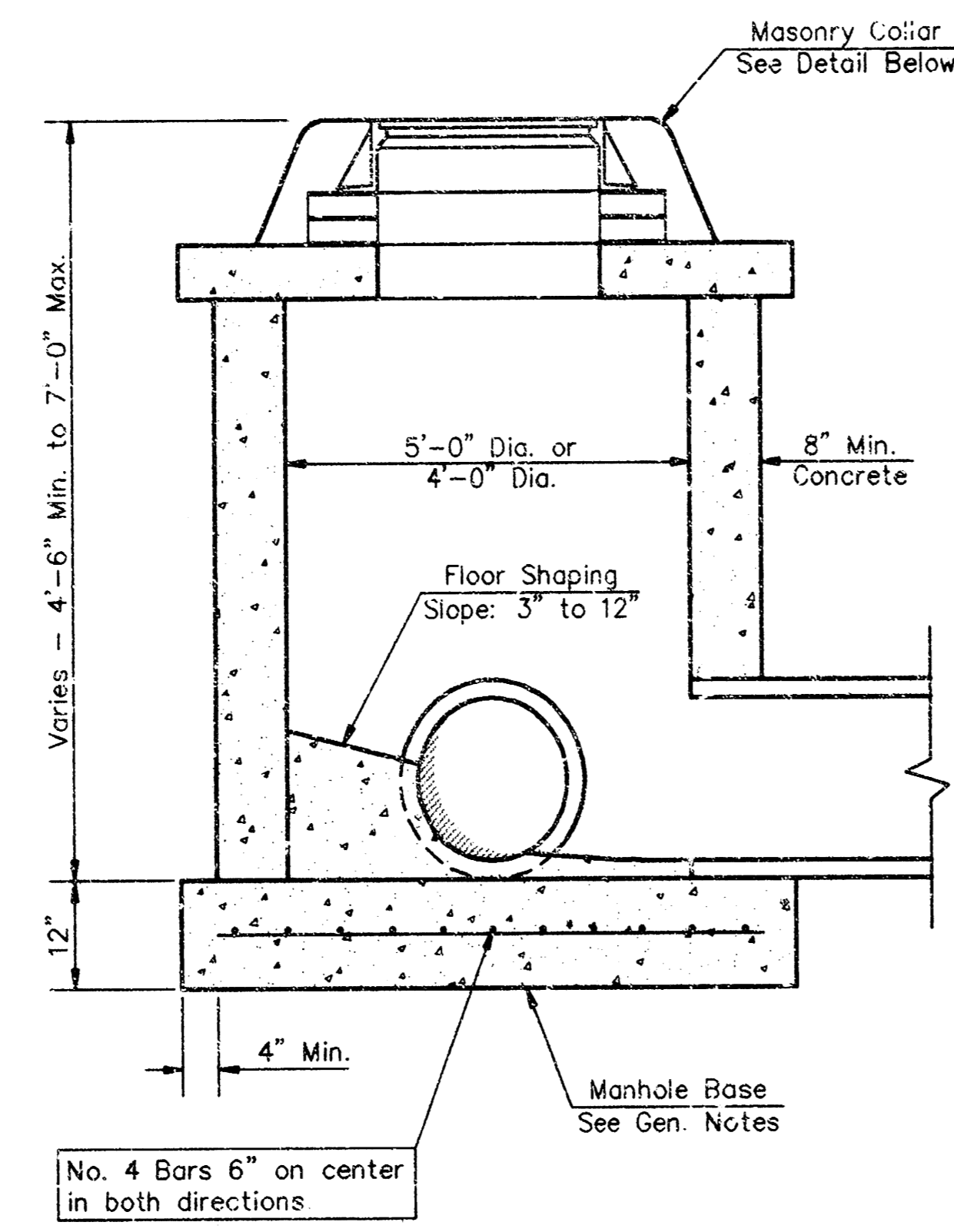
PROJECT NUMBER: **825PPS(607861)**

DESIGN: \_\_\_\_\_ DRAWN: \_\_\_\_\_ APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_ SCALE: NONE

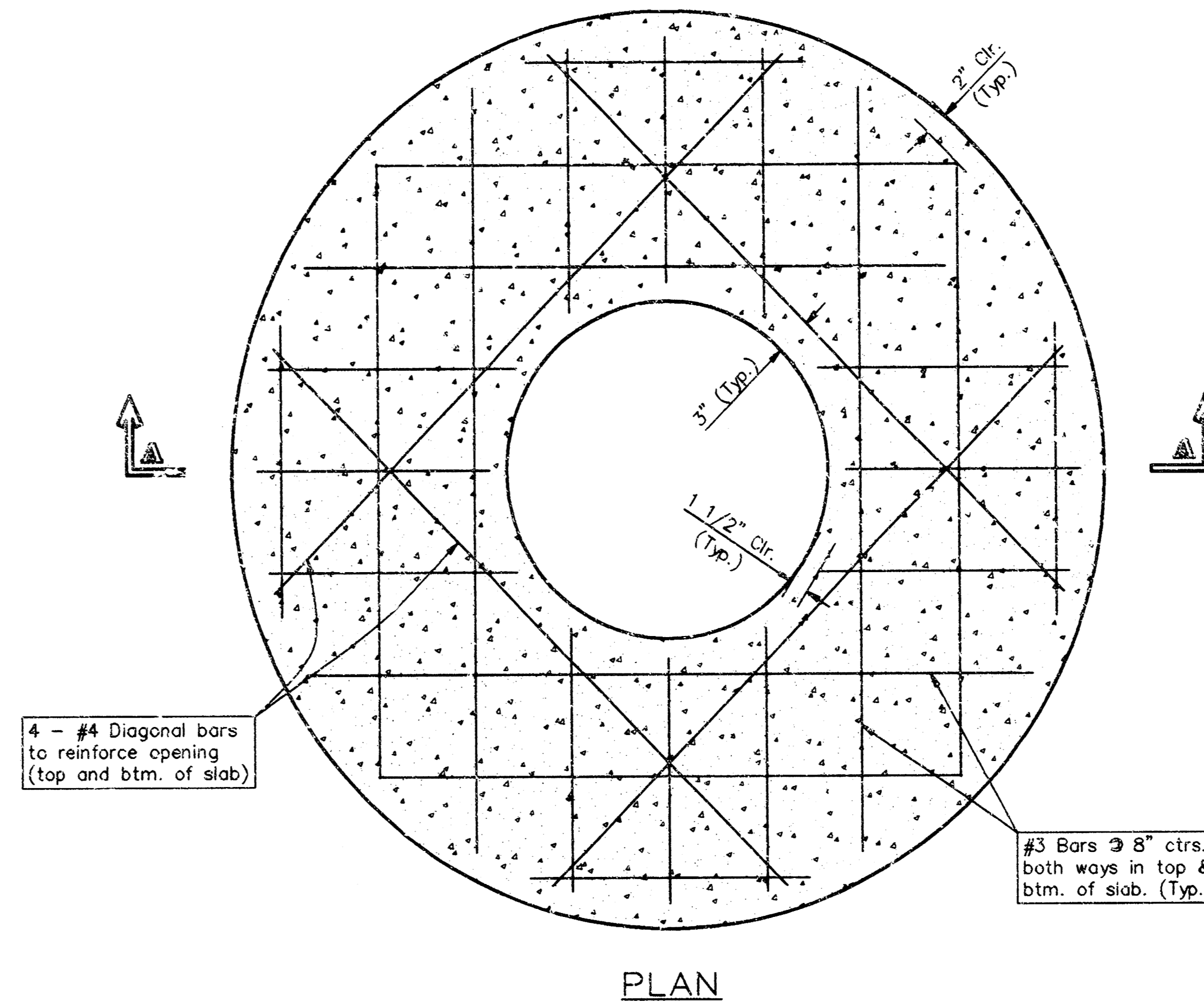
SHEET **11** OF **19**



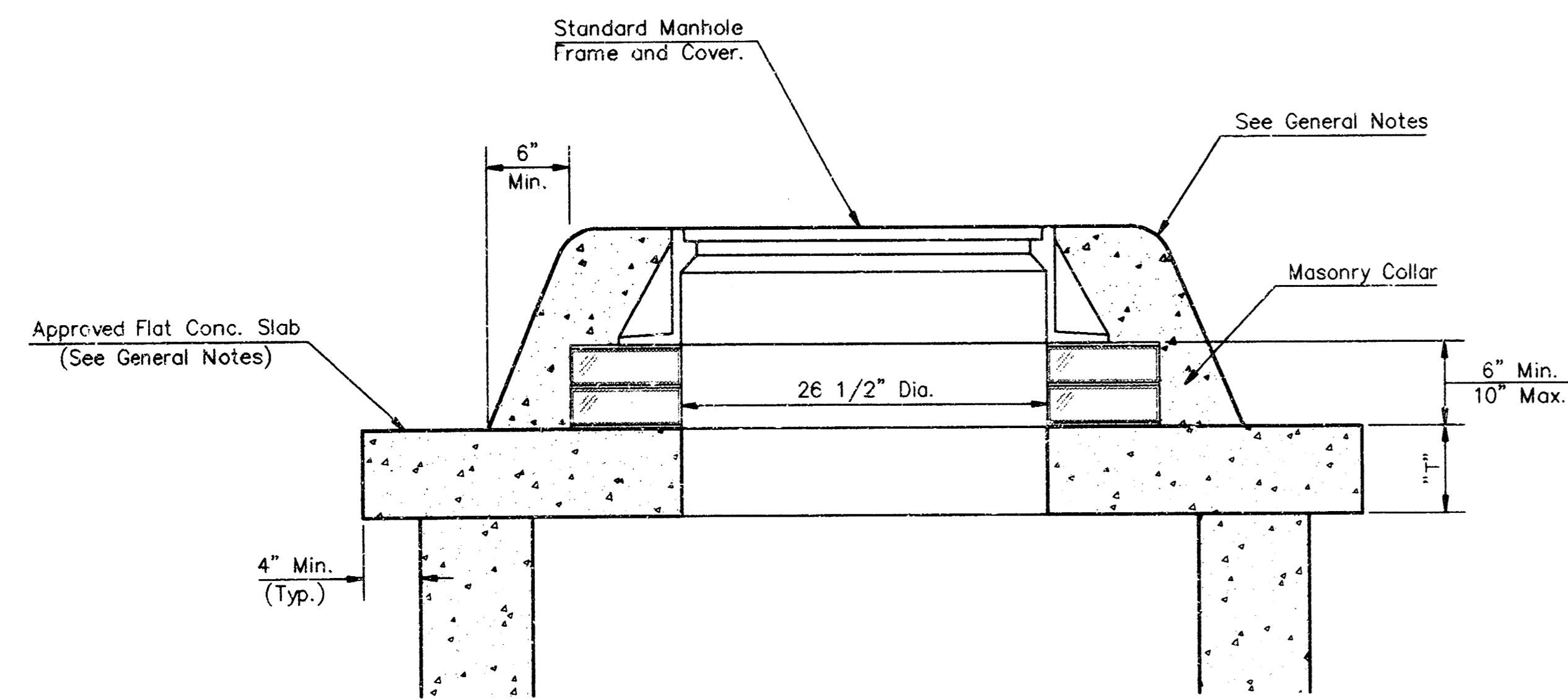
SHALLOW TYPE "P" MANHOLE



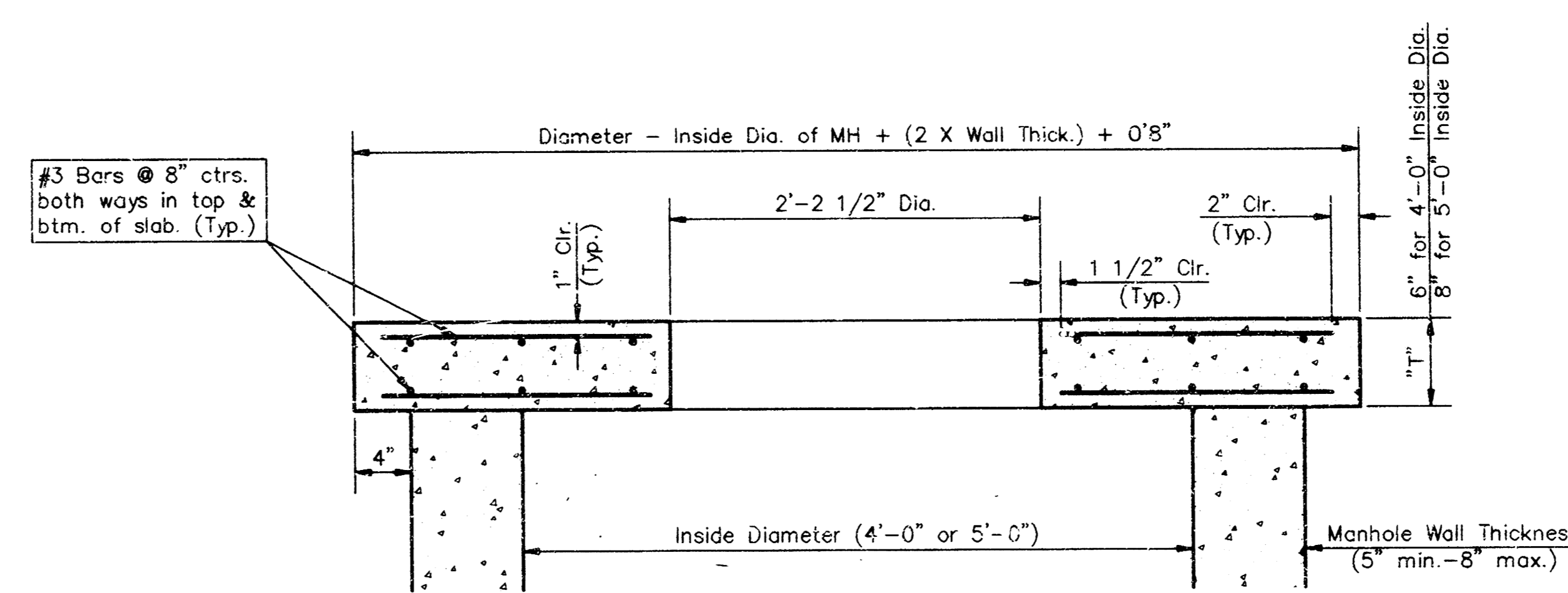
SHALLOW TYPE "C" MANHOLE



PLAN



MASONRY COLLAR DETAIL



SECTION A-A

FLAT CONCRETE SLAB DETAILS

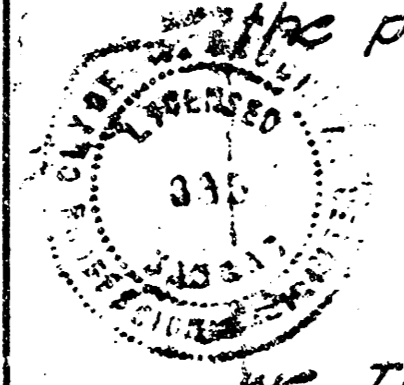
GENERAL NOTES

- 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 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 "P" and "C" shall be paid for at the unit price bid for 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  
**Std. Manhole Detail**  
 BAUGHMAN COMPANY P. A.  
 ENGINEERING, SURVEYING, & PLANNING  
 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211  
 PROJECT NUMBER  
**825PPS(807861)**  
 SHEET  
**12**  
 OF  
**13**  
 DESIGN STAFF DRAWN STAFF APPROVED DATE SCALE NONE

Op-0

State of Kansas } s.s. I, Clyde M. Baughman, Surveyor  
 Sedgwick County, do hereby certify that  
 in aforesaid county and state do hereby certify that  
 I have surveyed and platted "OSTEOPATHIC ADDITION  
 to Wichita, Kansas and that the accompanying plat  
 is a true and correct exhibit of the property sur-  
 veyed described as follows: Beginning 40 feet  
 North and 1898.3 feet East of the S.W. Corner of the  
 S.E. 1/4 of Sec. 13, Twp. 27 S., R. 1 W.; thence north  
 parallel with the West line of said 1/4 Sec. 110 feet;  
 thence West parallel with the South line of said  
 1/4 Sec. 25.0 feet; thence North parallel with the  
 West line of said 1/4 Sec. 2040.07 feet to a point  
 330 feet South of the North line of said 1/4 Sec.;  
 thence East parallel with the North line of said 1/4  
 Sec. 205.23 feet to the intersection of a curve having  
 a radius of 807.77 feet; thence southerly 171.67 feet  
 and through a central angle of 12° 10' 31" to the  
 point of tangency of said curve; thence along tan-  
 gent to said curve 70.25 feet to the point of curv-  
 ature of a curve to the left having a radius of  
 1334.53 feet; thence southerly along said curve and  
 through a central angle of 38° 16' a distance of 891.34  
 feet to the point of tangency of said curve; thence  
 along tangent to said curve 657.56 feet to the point  
 of curvature of a curve to the left having a radius  
 of 7986.2 feet; thence southerly along said curve and  
 through a central angle of 1° 11' 12" a distance of 165.4  
 feet; thence southerly 370.2 feet to a point 40 feet north  
 of the south line of said 1/4 Sec. and 117.62 feet east  
 of the center line of Meridian Avenue (as now exists)  
 as extended to the north; thence West 838.38 feet to  
 the place of beginning.



Clyde M. Baughman, Surveyor

Know all men by these presents that  
 we, The Osteopathic Hospital of Wichita, a corporation  
 by R.L. Wright, President and Bess Cavanaugh, Sec-  
 retary has caused the land described in the survey-  
 ors certificate to be platted into blocks and avenues  
 to be known as "OSTEOPATHIC ADDITION" to Wich-  
 ita, Kansas. Edwards Avenue, Murdock Avenue and  
 a 10 foot strip for Central Avenue are hereby dedicated  
 to and for the use of the public.

Complete access control, to Central from that portion  
 of Block 1, Osteopathic Addition, extending from the  
 West line of McLean to the East line of Richmond  
 Avenue as extended to the north is hereby granted  
 to the City of Wichita.  
 Complete access control, from Blocks 1 & 2 Osteopathic  
 Addition to McLean Boulevard is hereby granted  
 to the City of Wichita.

Osteopathic Hospital of Wichita, a corporation  
R.L. Wright President  
Bess Cavanaugh Secretary

State of Kansas } s.s. Be it remembered that on this  
 Sedgwick County } day of October 1961, before me a notary pub-  
 lic in aforesaid county and state came R.L. Wright  
 President and Bess Cavanaugh, Secretary of the  
 Osteopathic Hospital of Wichita, a corporation, to me  
 known to be the same persons who executed the fore-  
 going instrument of writing and duly acknowledged  
 the execution of the same. In testimony whereof I  
 have hereunto set my hand and affixed my notarial  
 seal the day and year above written.

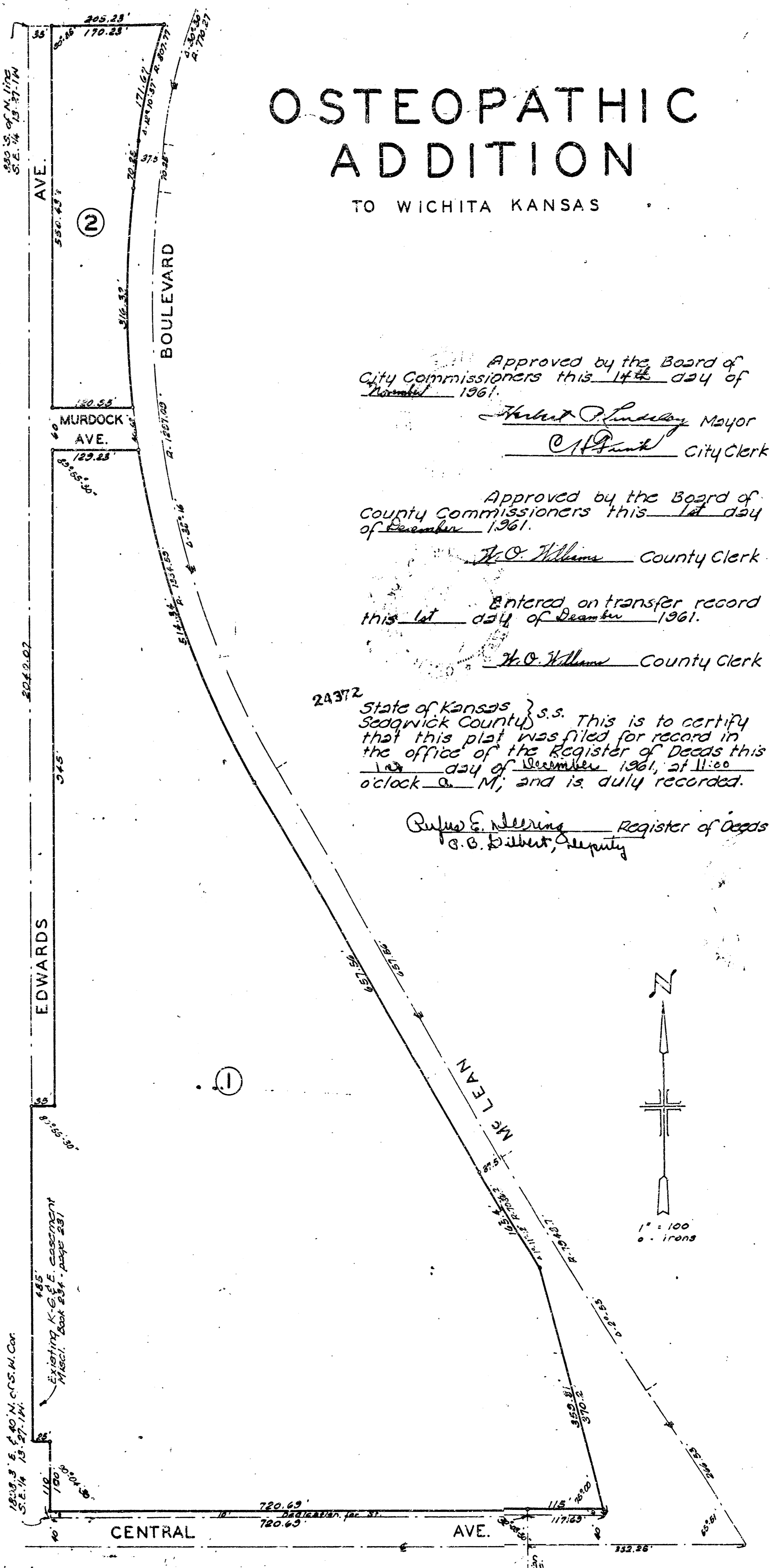
Clifton M. Regen Notary Public  
 My Commission Expires Oct 5, 1962

This plat of "OSTEOPATHIC ADDITION"  
 to Wichita, Kansas has been submitted to and consider-  
 ed by the Wichita-Sedgwick County Metropolitan  
 Area Planning Commission and is hereby transmitted  
 to the Board of City Commissioners with the rec-  
 ommendation that such plat be approved as prop-  
 osed. Done this 28th day of May, 1961.  
 The Wichita-Sedgwick County Metropolitan Area  
 Planning Commission.

Paul W. Jennings Chairman  
Ed Smith Secretary

# OSTEOPATHIC ADDITION

TO WICHITA KANSAS



Approved by the Board of  
 City Commissioners this 14th day of  
November 1961.  
Herbert Plunderson Mayor  
C. H. Smith City Clerk.

Approved by the Board of  
 County Commissioners this 1st day  
 of December 1961.  
H. O. Williams County Clerk

Entered on transfer record  
 this 1st day of December 1961.  
H. O. Williams County Clerk

24372 State of Kansas } s.s. This is to certify  
 Sedgwick County } that this plat was filed for record in  
 the office of the Register of Deeds this  
1st day of December 1961, at 11:00  
 o'clock A. M; and is duly recorded.  
Paul E. Manning Register of Deeds  
G. E. Gilbert Deputy