

Lat. 1, Main 19, S.W.I.
SANITARY SEWER IMPROVEMENTS

to serve

RIDGE PORT NORTH 3RD ADDITION
AND
RIDGE PORT NORTH 4TH ADDITION -PHASE 1
CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

Project Number

468- 83167

O.C.A. Number

743858

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:

Cox Communications 262-0661
K.P.L. Gas Service Company 383-8650
Kansas Gas & Electric Company 383-8600
Peoples Gas Company 942-8350
Southwestern Bell Telephone Company 1-800-344-7233
City of Wichita Water Dept. 268-4908
City of Wichita Traffic Engineering 269-4446

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. 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.

4. 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.

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. 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. Prior to seeding, area shall be prepared per City specs.

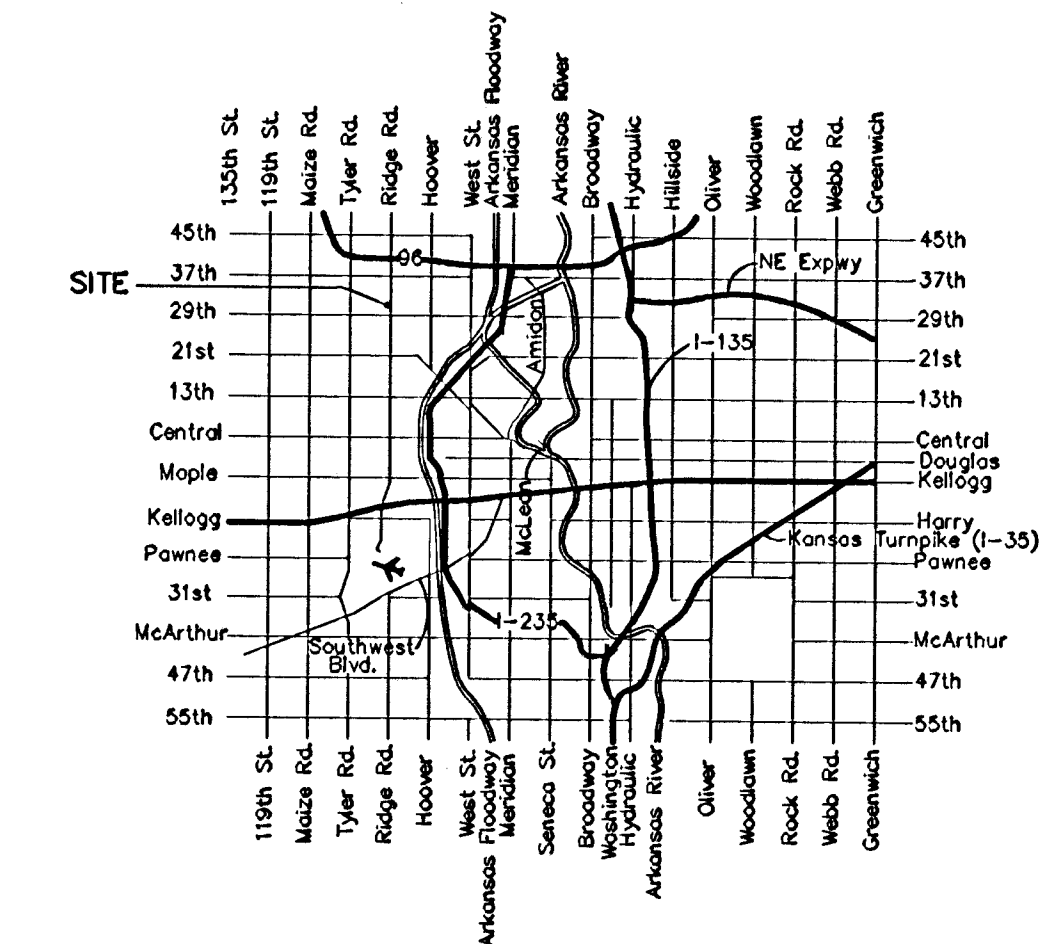
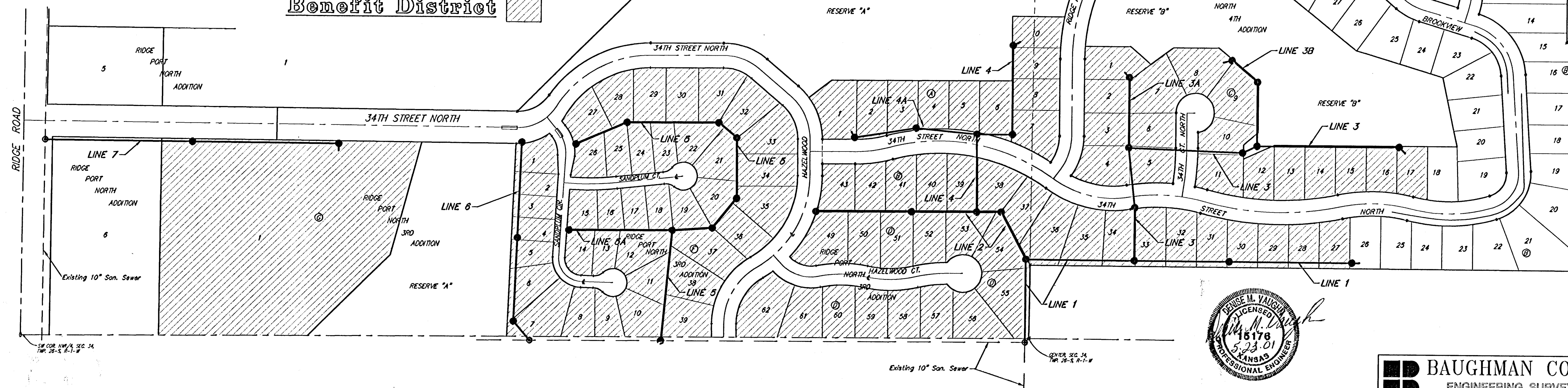
Benchmark

City Disc at the SW Corner
of R.C.B.C. for Big Slough
at Ridge Road
Elev. = 144.22 City Datum

Sheet Index

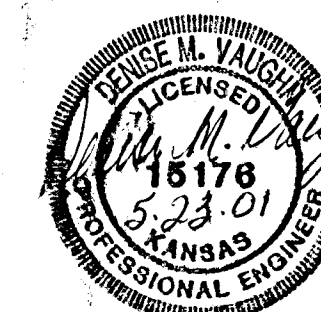
Title Sheet	1
Line 1	2
Line 2	3
Line 3	4
Line 3A & Line 3B	5
Line 4	6
Line 4A	7
Line 5	8-9
Line 5A & Line 6	10
Line 7	11
Shallow Manhole Detail	12
Standard Manhole Detail	13
Ring & Cover Detail	14
Riser Detail	15
Ridge Port North 3rd Addition Plat	16
Ridge Port North 4th Addition Plat	17-18

Benefit District



Vicinity Map

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P. 204
P. 205
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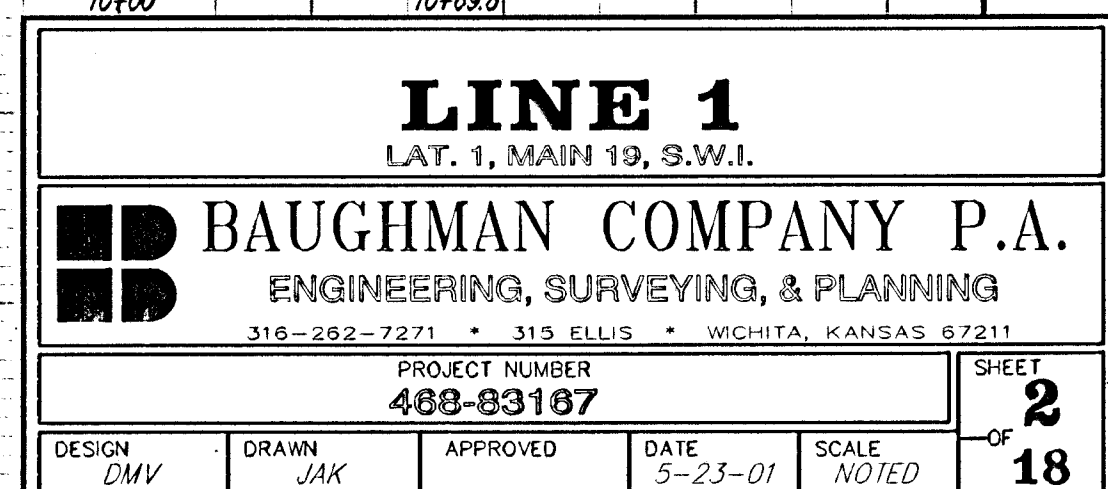


BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315-ELUS • WICHITA, KANSAS 67211

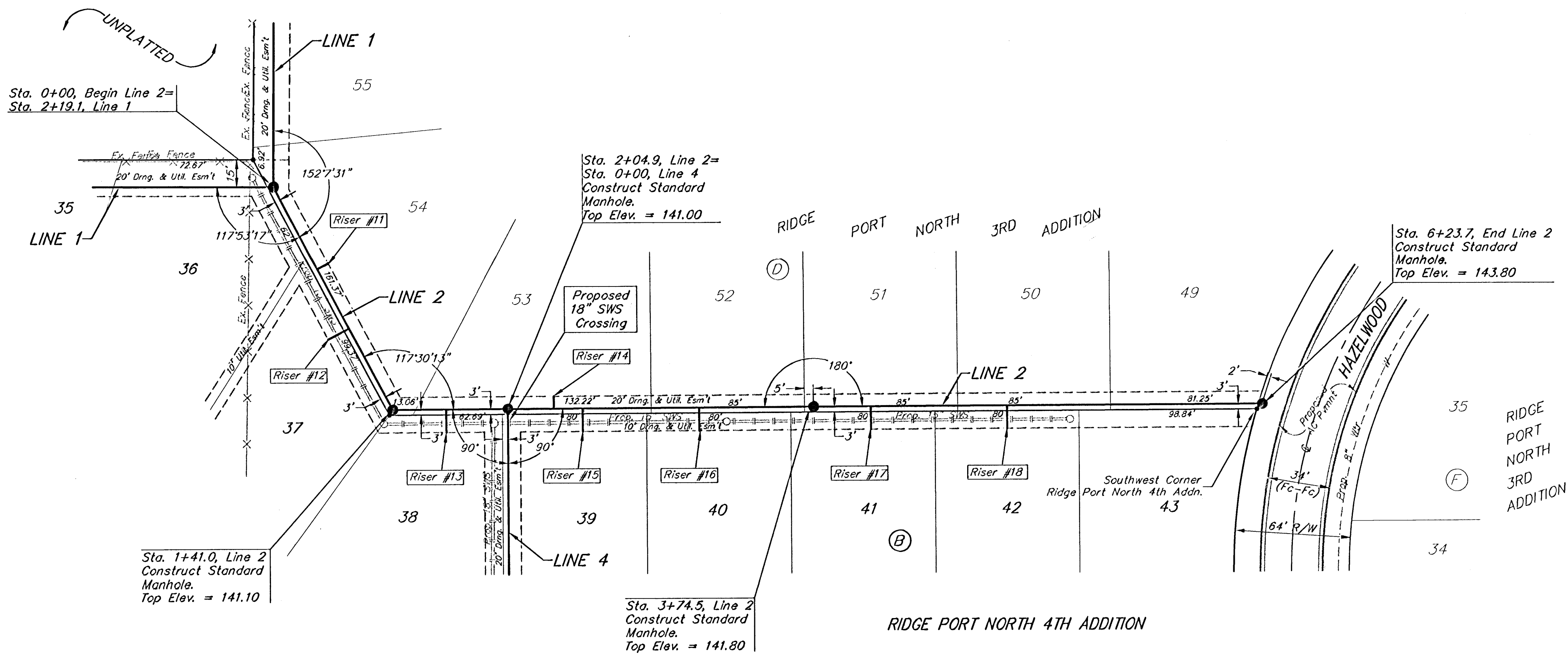
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NUMBER	TYPE	LOCATION			STATION/ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	
						VERTICAL	HORIZONTAL
1	10" X 4" Tee Saddle	36	B	1	2+64/Lt.	8'	5'
2	10" X 4" Tee Saddle	35	B	1	3+65/Lt.	6.5'	5'
3	10" X 4" Tee Saddle	34	B	1	4+65/Lt.	6.5'	5'
4	10" X 4" Tee Saddle	33	B	1	5+47/Lt.	6.5'	5'
5	10" X 4" Tee Saddle	32	B	1	6+23/Lt.	6.5'	5'
6	10" X 4" Tee Saddle	31	B	1	7+05/Lt.	6.5'	5'
7	10" X 4" Tee Saddle	30	B	1	7+82/Lt.	6'	5'
8	10" X 4" Tee Saddle	29	B	1	8+65/Lt.	5.5'	5'
9	10" X 4" Tee Saddle	28	B	1	9+43/Lt.	5.5'	5'
10	10" X 4" Tee Saddle	27	B	1	10+26/Lt.	5.5'	5'

UNPLATTED



BENCHMARK:
City Disc at the SW Corner
of R.C.B.C. for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

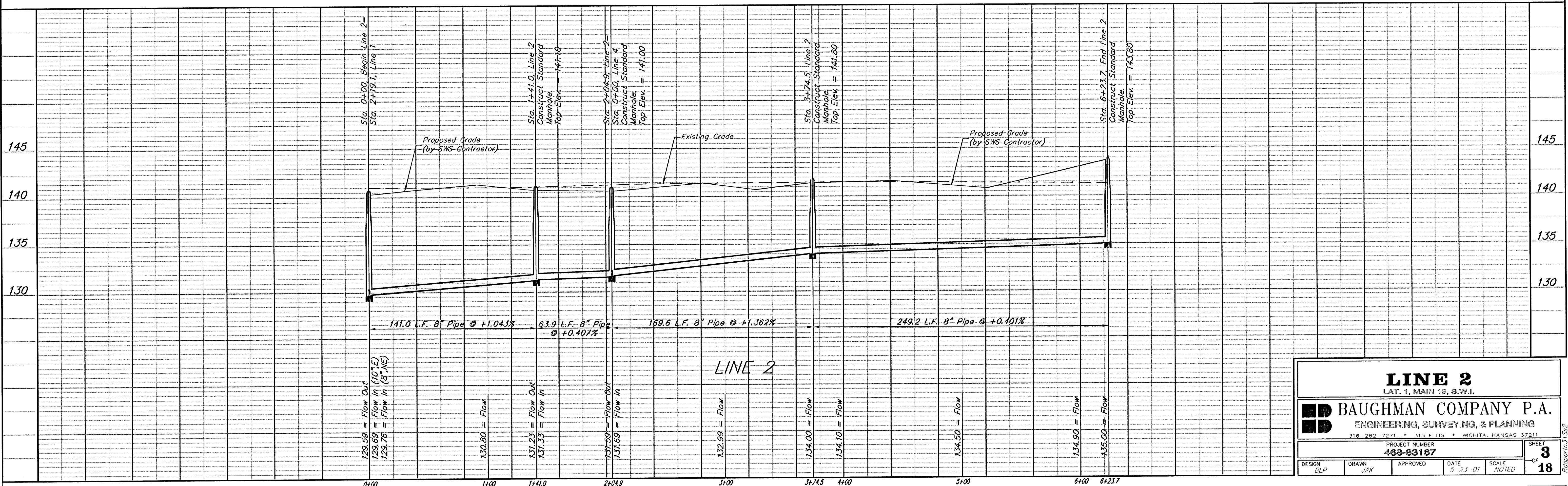


SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL HORIZONTAL
11	8" X 4" Tee Saddle	54	4	2	0+52/Lt.	7' 7'
12	8" X 4" Tee Saddle	37	B	2	0+89/Rt.	7' 13'
13	8" X 4" Tee Saddle	38	B	2	1+71/Rt.	6' 13'
14	8" X 4" Tee Saddle	53	4	2	2+30/Lt.	5.5' 7'
15	8" X 4" Tee Saddle	39	B	2	2+46/Rt.	5.5' 13'
16	8" X 4" Tee Saddle	40	B	2	3+11/Rt.	4.5' 13'
17	8" X 4" Tee Saddle	41	B	2	4+06/Rt.	3.5' 13'
18	8" X 4" Tee Saddle	42	B	2	4+82/Rt.	3' 13'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



LINE 2
LAT. 1, MAIN 19, S.W.1.

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PROJECT NUMBER
488-83187

DESIGN
BLP

DRAWN
JAK

APPROVED

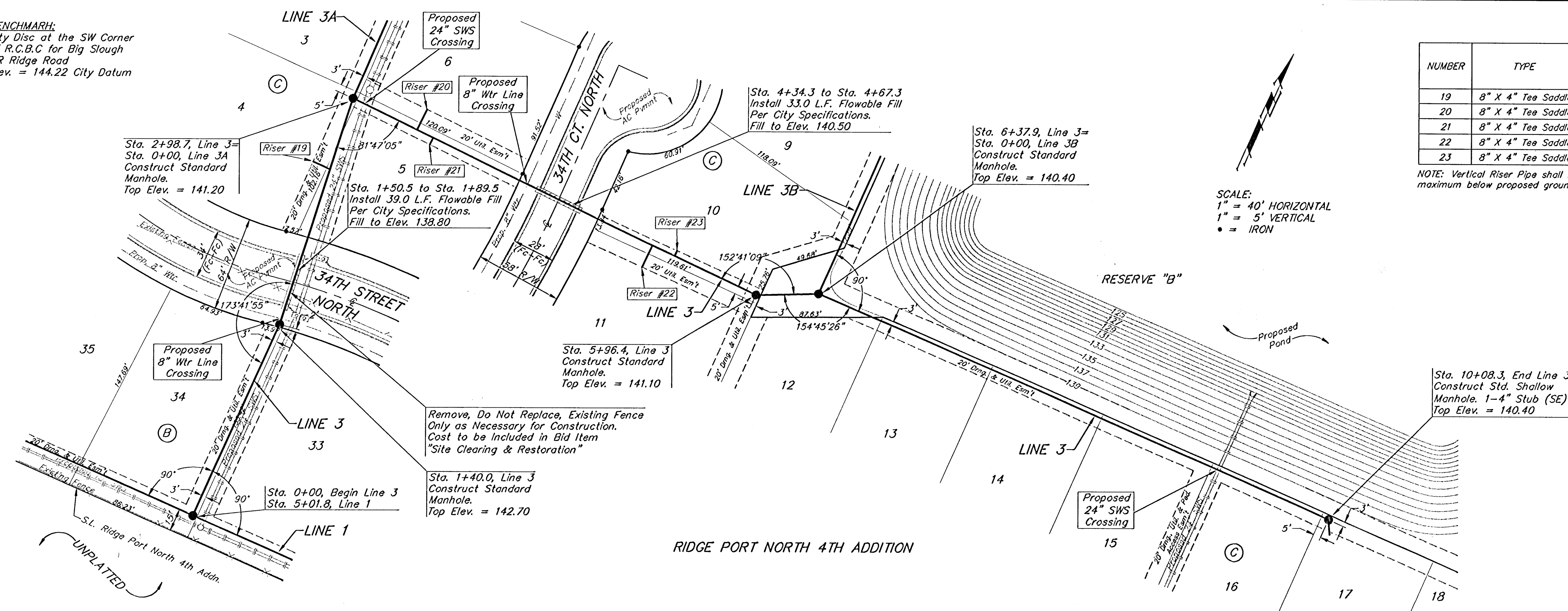
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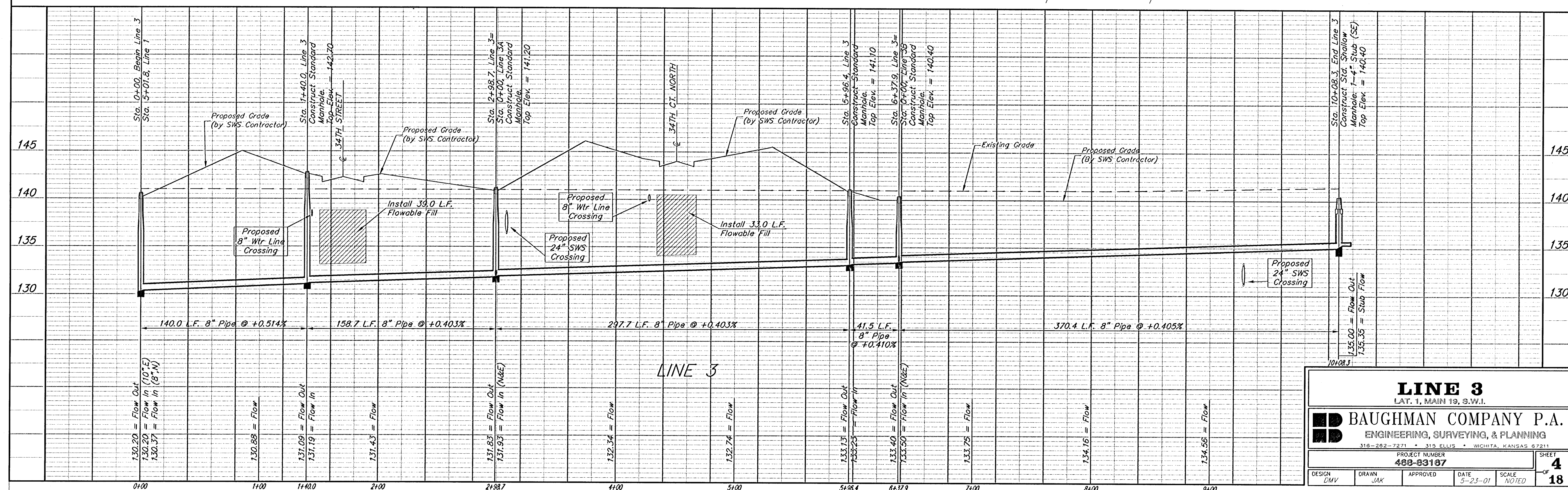
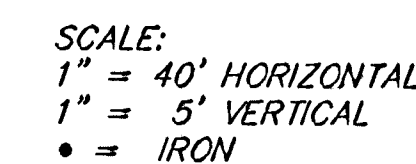
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BENCHMARK:
City Disc at the SW Corner
of R.C.B.C for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" P.I.	
						VERTICAL	HORIZONTAL
19	8" X 4" Tee Saddle	4	C	3	2+50/Lt.	6.5'	13'
20	8" X 4" Tee Saddle	6	C	3	3+46/Lt.	8'	15'
21	8" X 4" Tee Saddle	5	C	3	3+58/Rt.	9'	5'
22	8" X 4" Tee Saddle	11	C	3	5+20/Rt.	8.5'	16'
23	8" X 4" Tee Saddle	10	C	3	5+36/Lt.	8.5'	4'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



LINE 3

LAT. 1, MAIN 12, S.W.1



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316-262-7271 • 315 ELLIS • WICHITA, KANSAS 672

PROJECT NUMBER
468-83167

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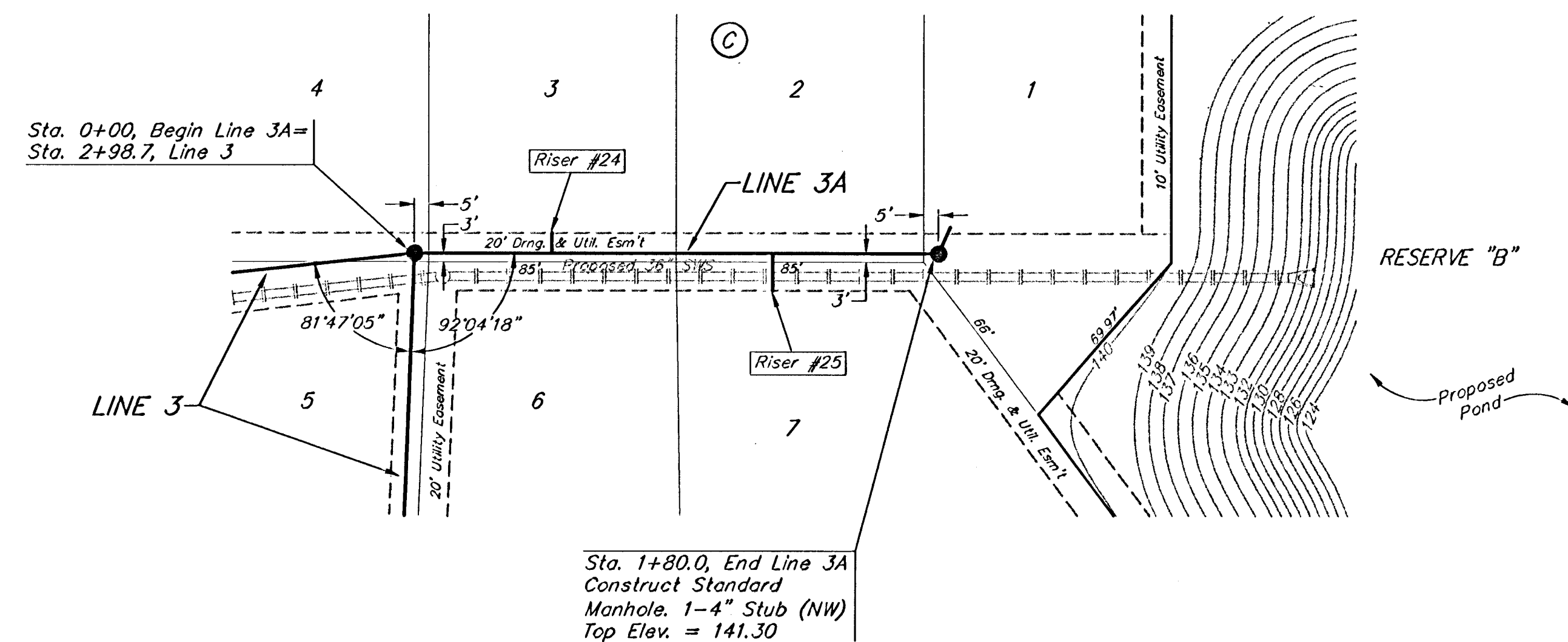
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City Disc at the SW Corner
of R.C.B.C. for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

SEWER SERVICE TABLE

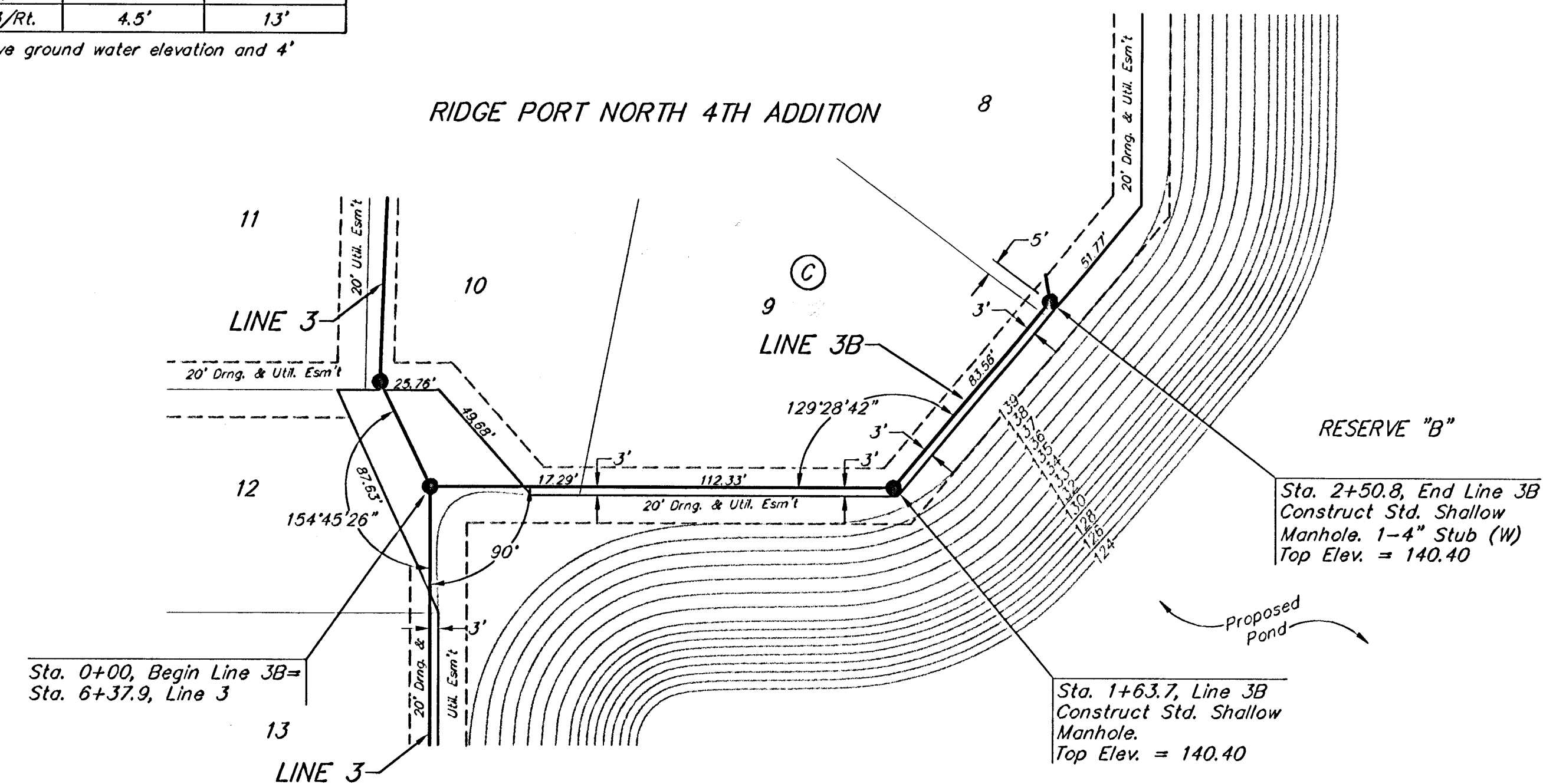
NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
24	8" X 4" Tee Saddle	3	C	3A	0+47/Lt.	5'	7'
25	8" X 4" Tee Saddle	7	C	3A	1+23/Rt.	4.5'	13'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

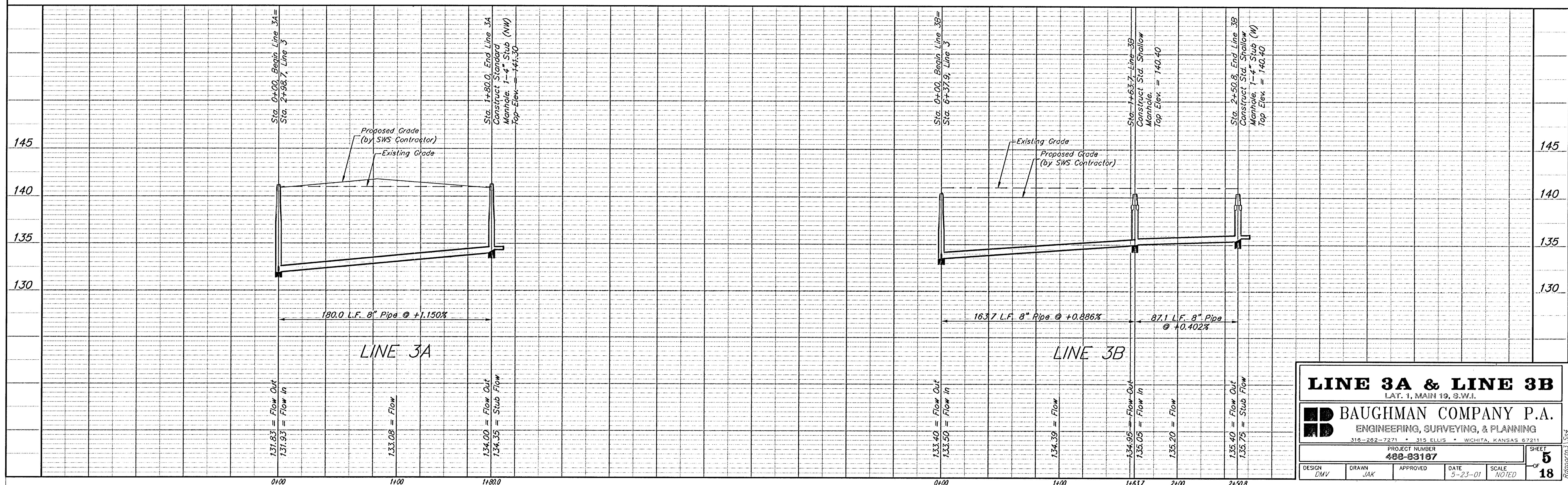
RIDGE PORT NORTH 4TH ADDITION



RIDGE PORT NORTH 4TH ADDITION



SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON



LINE 3A & LINE 3B
LAT. 1, MAIN 19, S.W.I.

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PROJECT NUMBER
488-83187

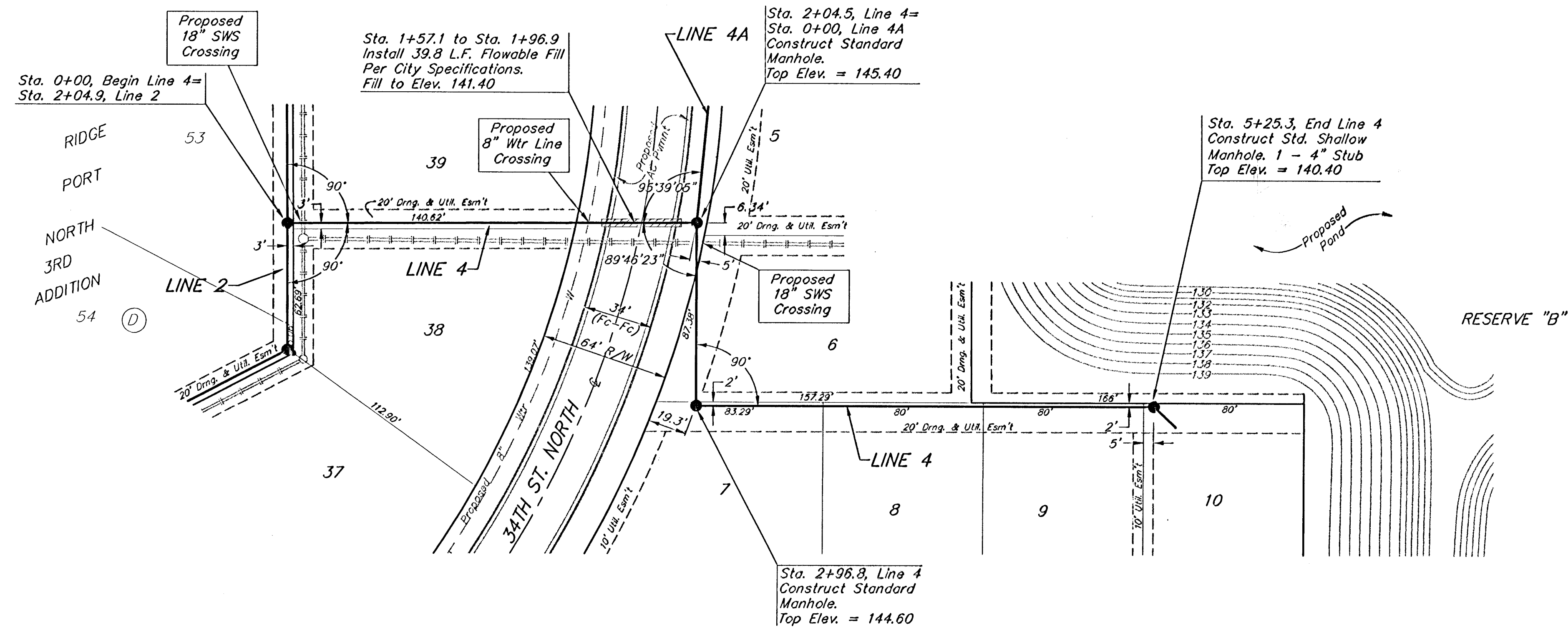
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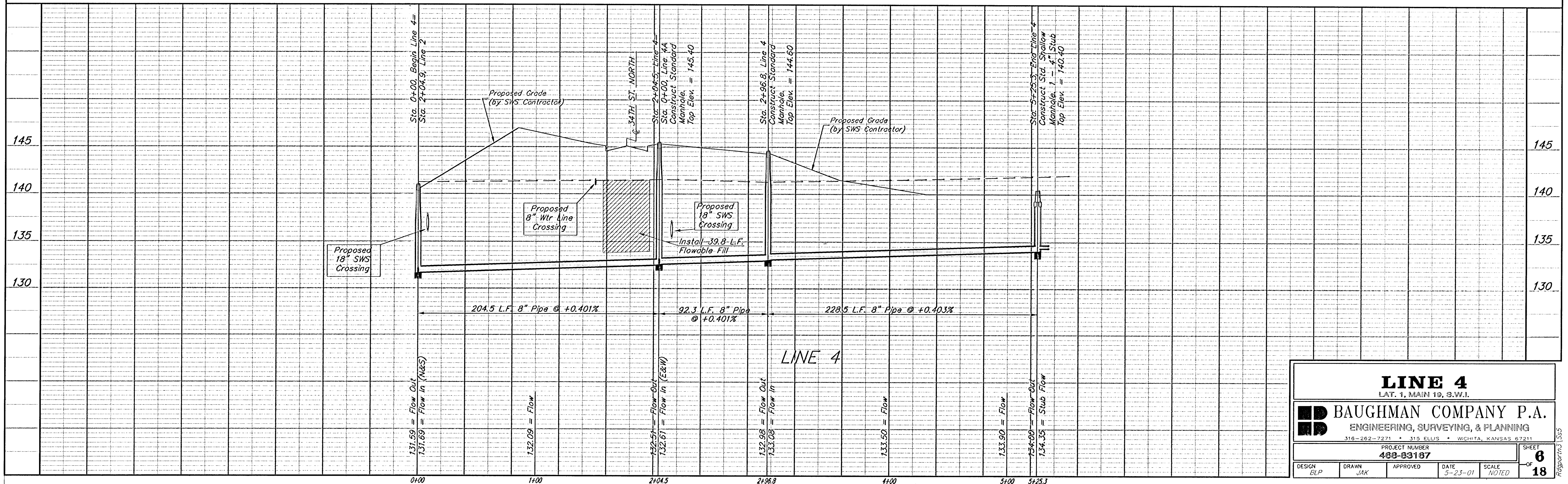
BENCHMARK:
City Disc at the SW Corner
of R.C.B.C. for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum



SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON

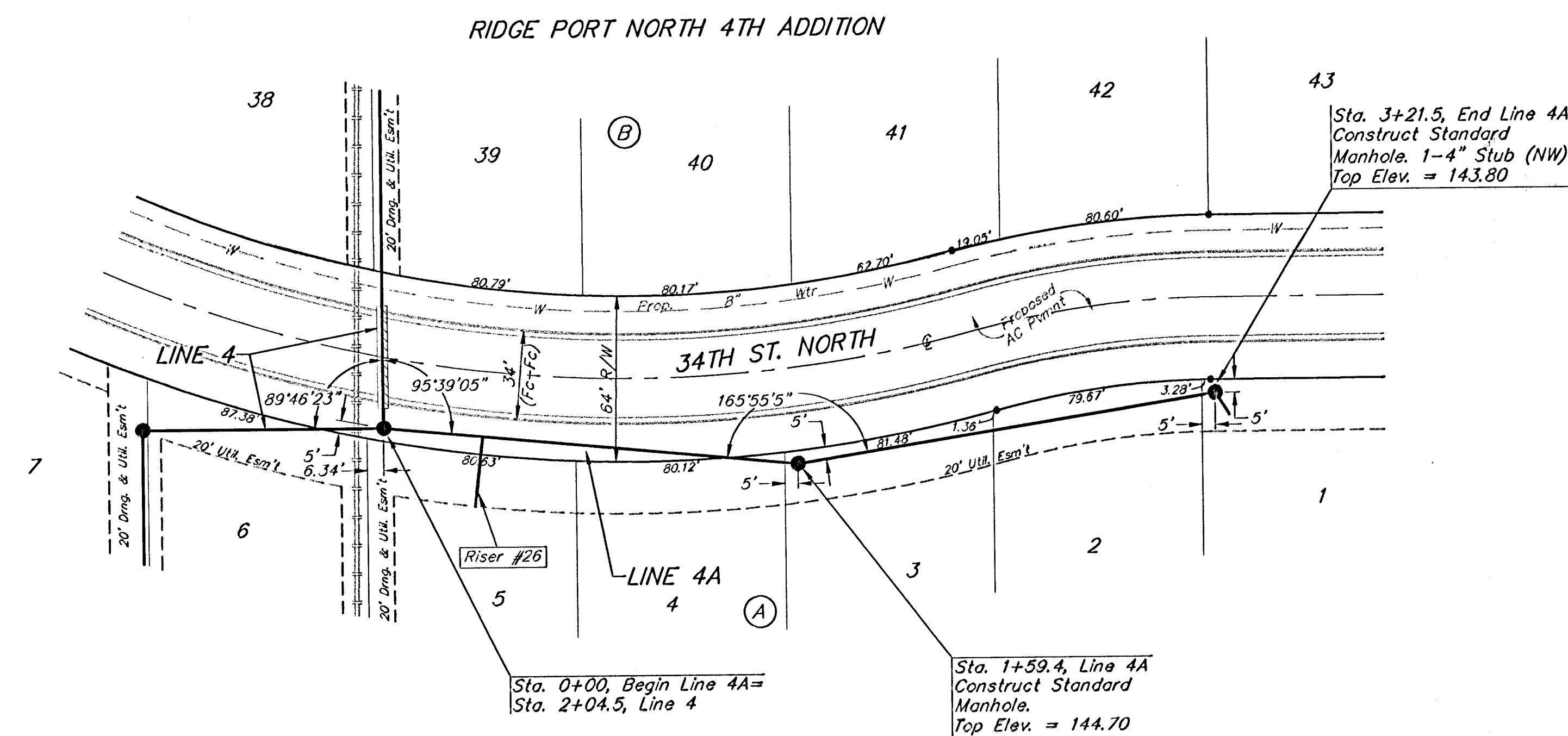


RIDGE PORT NORTH 4TH ADDITION



LINE 4			
LAT. 1, MAIN 19, S.W.1.			
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PROJECT NUMBER 488-83187			
DESIGN ELP	DRAWN JAK	APPROVED	DATE 5-23-01
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BENCHMARK:
City Disc at the SW Corner
of R.C.B.C for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

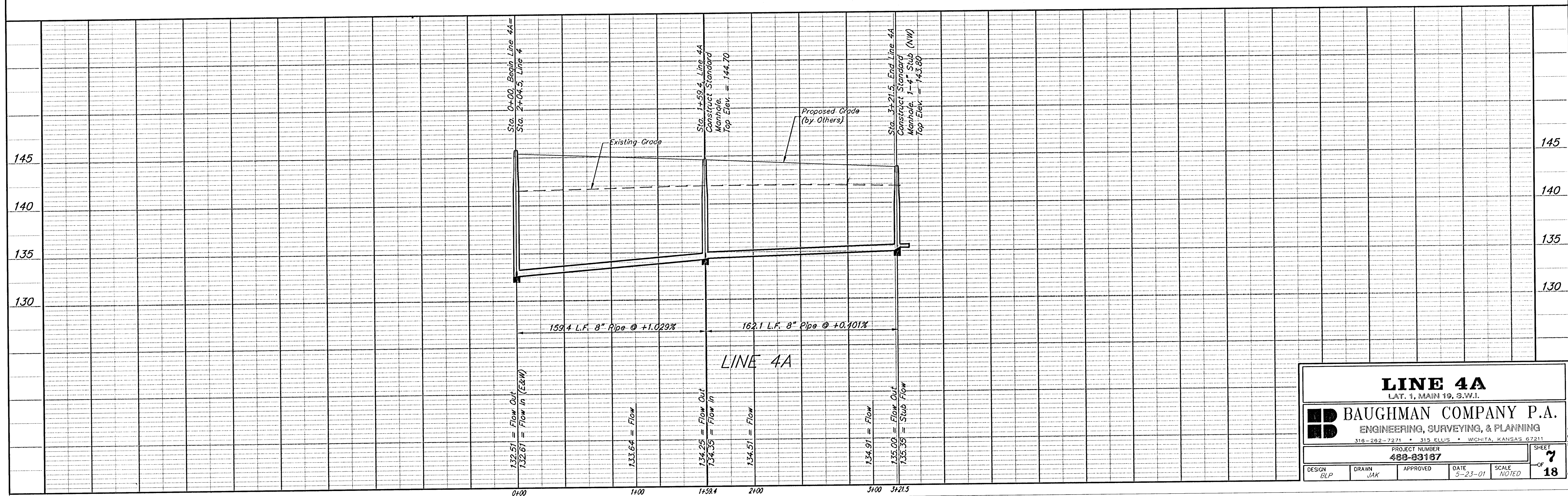


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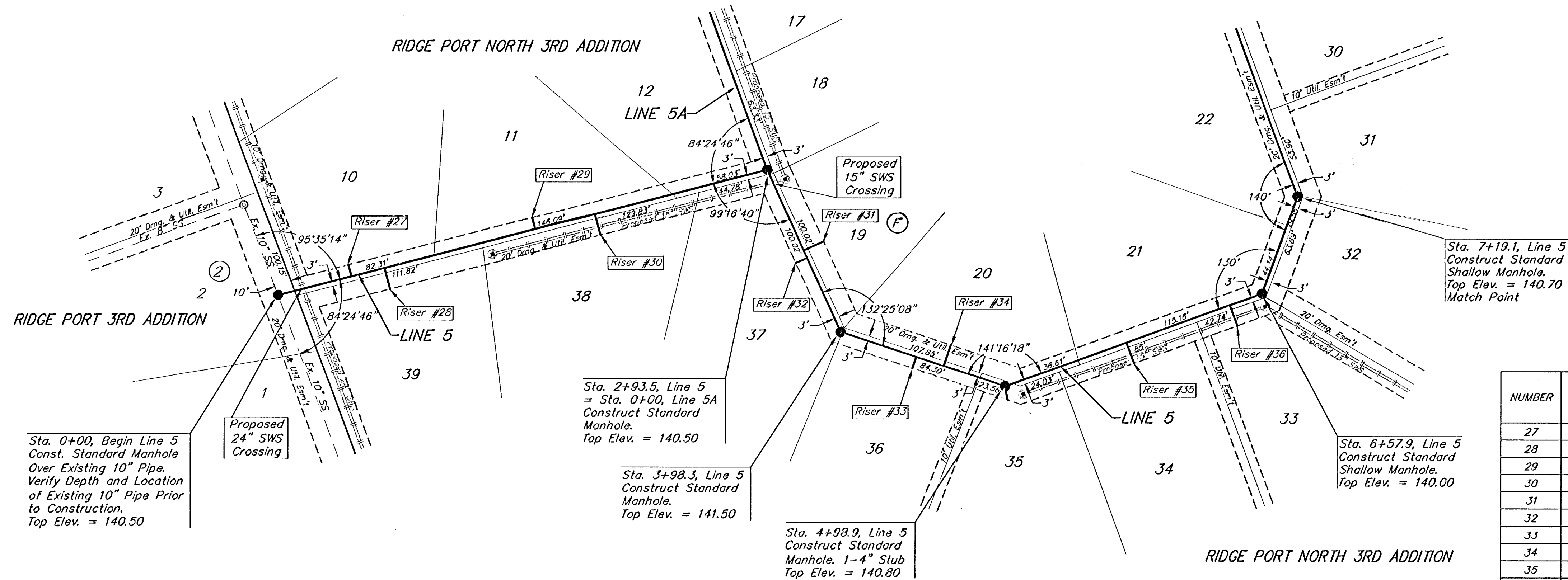
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
26	A" X 4" Tee Saddle	5	A	4A	0+38/Rt.	8.5'	27'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



BENCHMARK:
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AR Ridge Road
Elev. = 144.22 City Datum

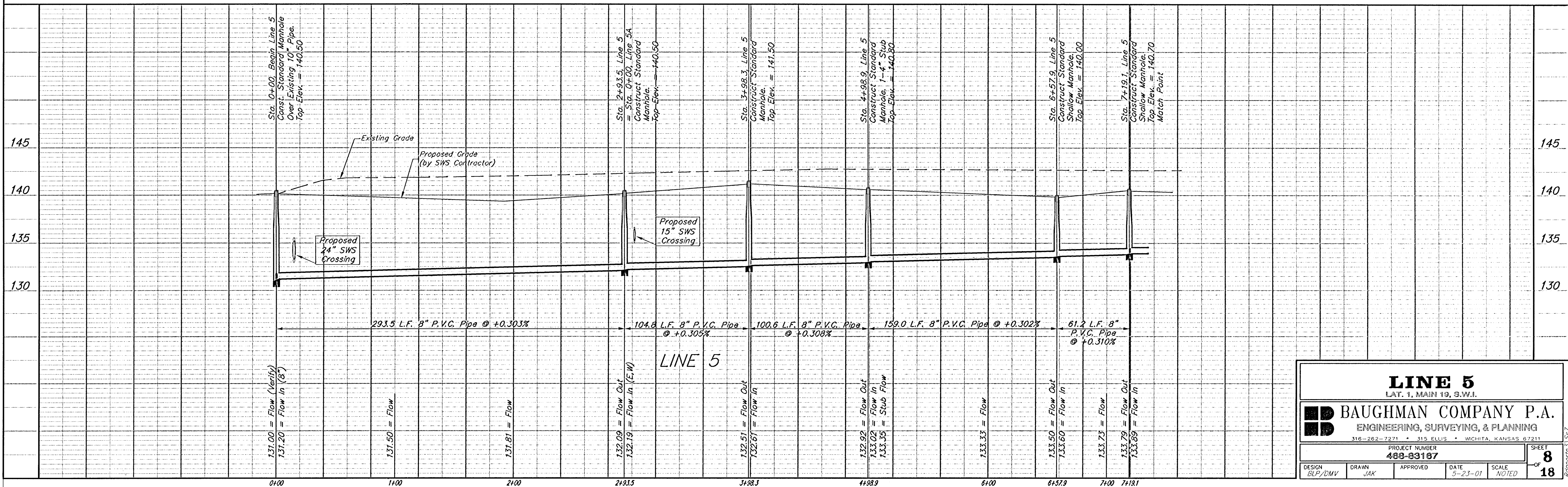


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1" = 5' VERTICAL
• = IRON

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			STATION/ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	
						VERTICAL	HORIZONTAL
27	8" X 4" Tee Saddle	10	F	5	0+44/Lt.	5'	7'
28	8" X 4" Tee Saddle	39	F	5	0+64/Rt.	4.5'	13'
29	8" X 4" Tee Saddle	11	F	5	1+55/Lt.	4'	7'
30	8" X 4" Tee Saddle	38	F	5	1+90/Rt.	4'	13'
31	8" X 4" Tee Saddle	19	F	5	3+45/Lt.	4.5'	13'
32	8" X 4" Tee Saddle	37	F	5	3+50/Rt.	4.5'	7'
33	8" X 4" Tee Saddle	36	F	5	4+45/Rt.	4.5'	7'
34	8" X 4" Tee Saddle	20	F	5	4+62/Lt.	4'	13'
35	8" X 4" Tee Saddle	34	F	5	5+74/Rt.	3'	13'
36	8" X 4" Tee Saddle	33	F	5	6+38/Rt.	2.5'	13'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



LINE 5
LAT. 1, MAIN 19, S.W.I.

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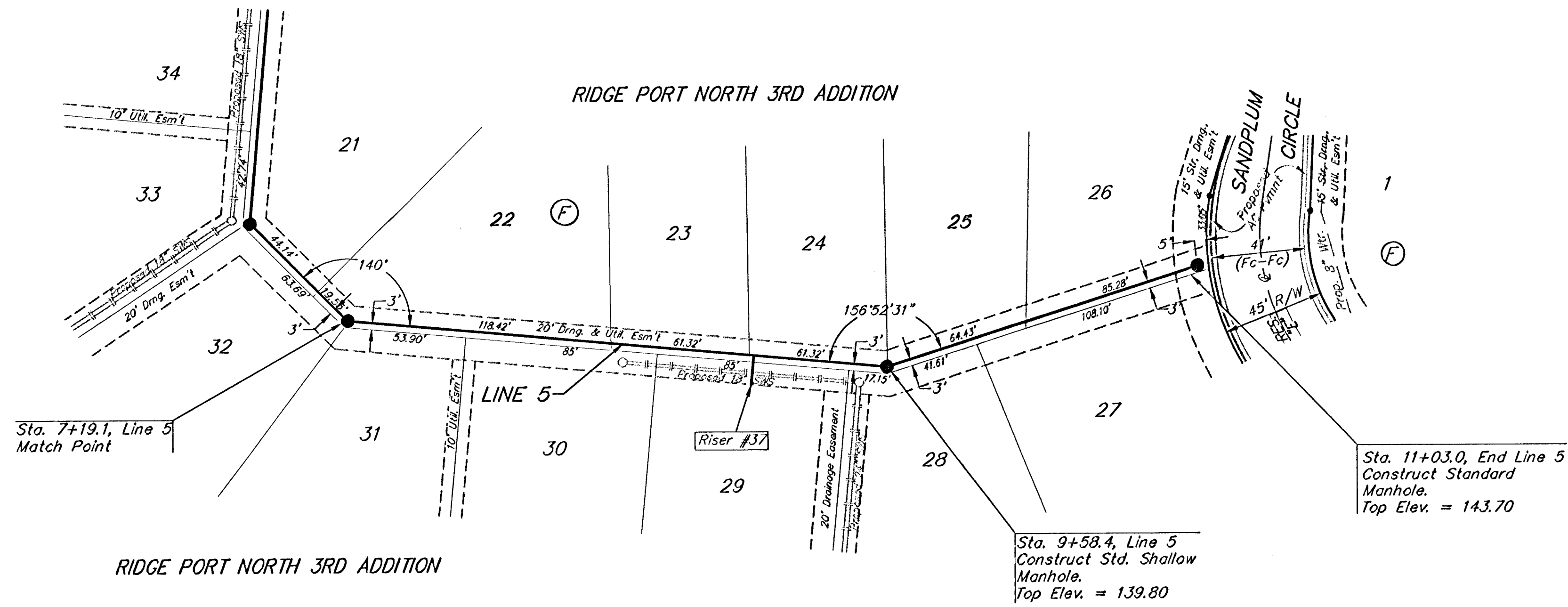
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488-83187

DESIGN: BLP/DMV DRAWN: JAK APPROVED: DATE: 5-23-01 SCALE: NOTED

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BENCHMARK:
City Disc at the SW Corner
of R.C.B.C for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

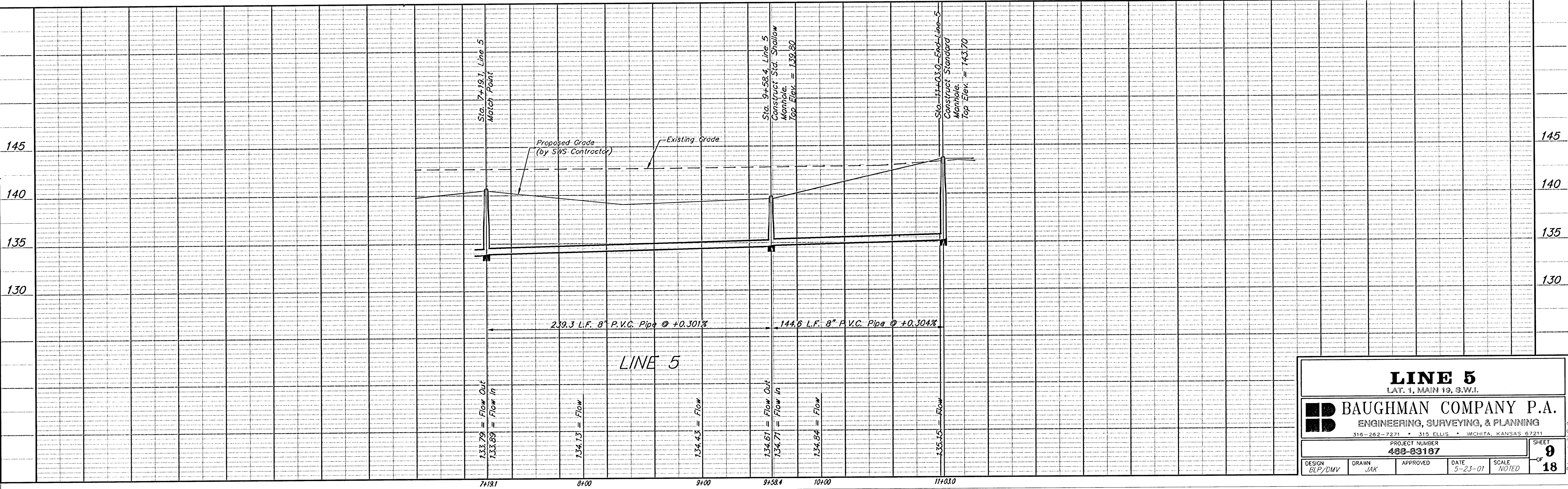
SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
37	8" X 4" Tee Saddle	29	F	5	9+00/Rt.	VERTICAL 1'	HORIZONTAL 13'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



LINE 5
LAT. 1, MAIN 19, S.W.1.

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PROJECT NUMBER
488-83187

DESIGN
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JAK

APPROVED

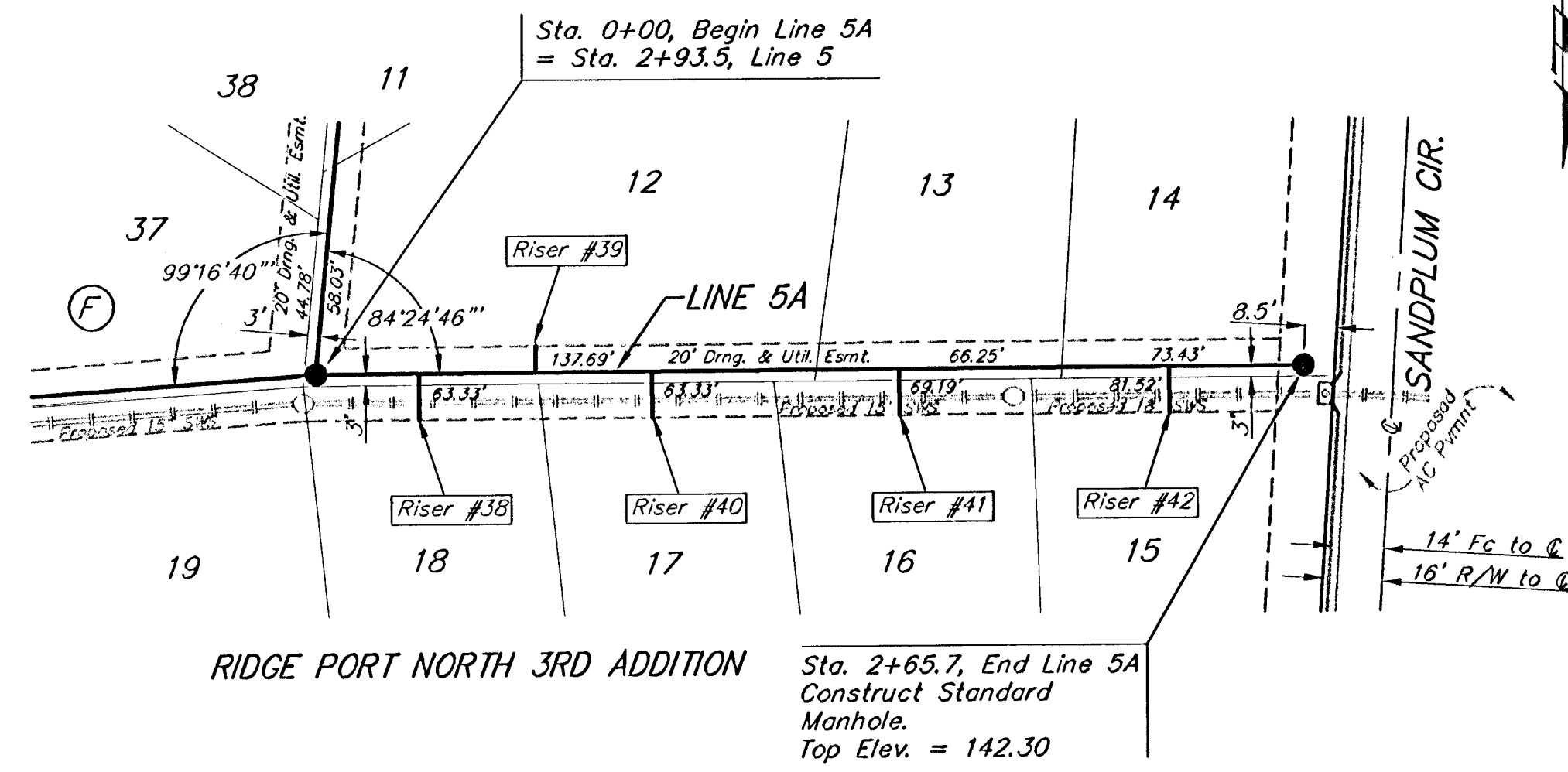
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9
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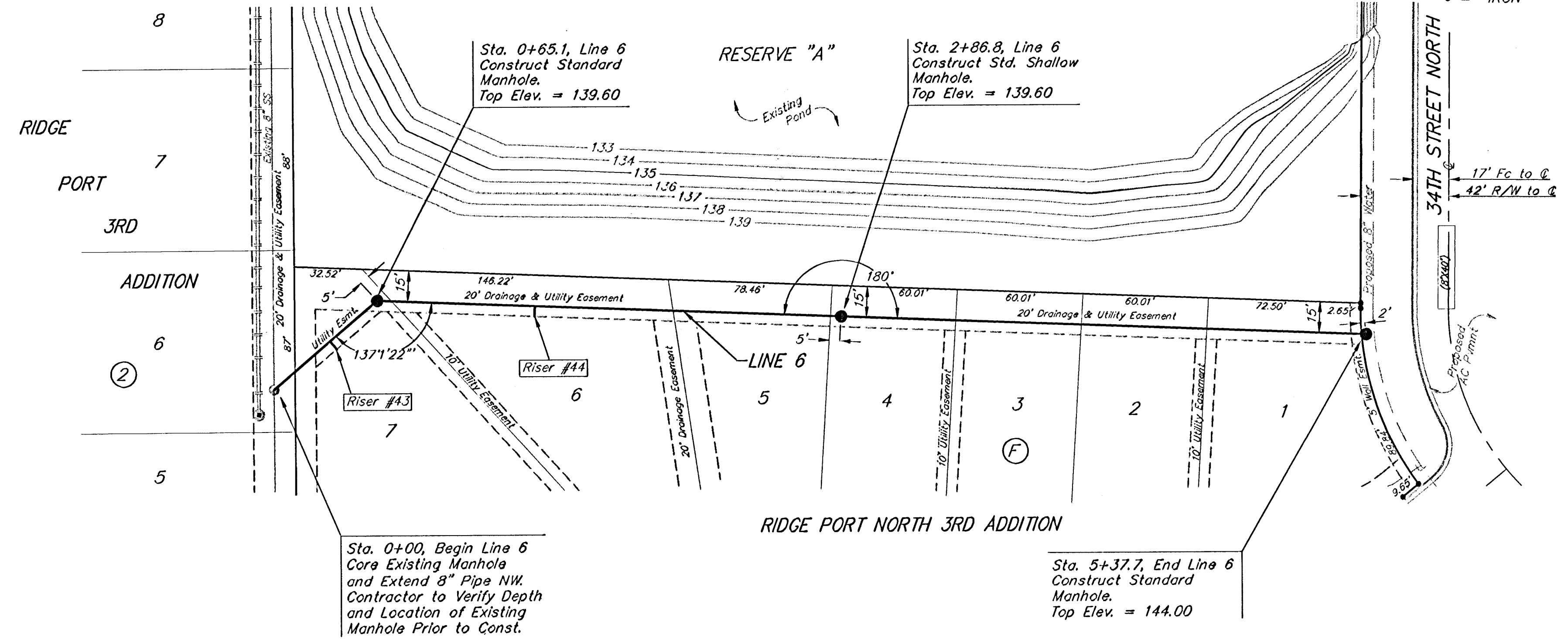
BENCHMARK:
City Disc at the SW Corner
of R.C.B.C for Big Slough
AR Ridge Road
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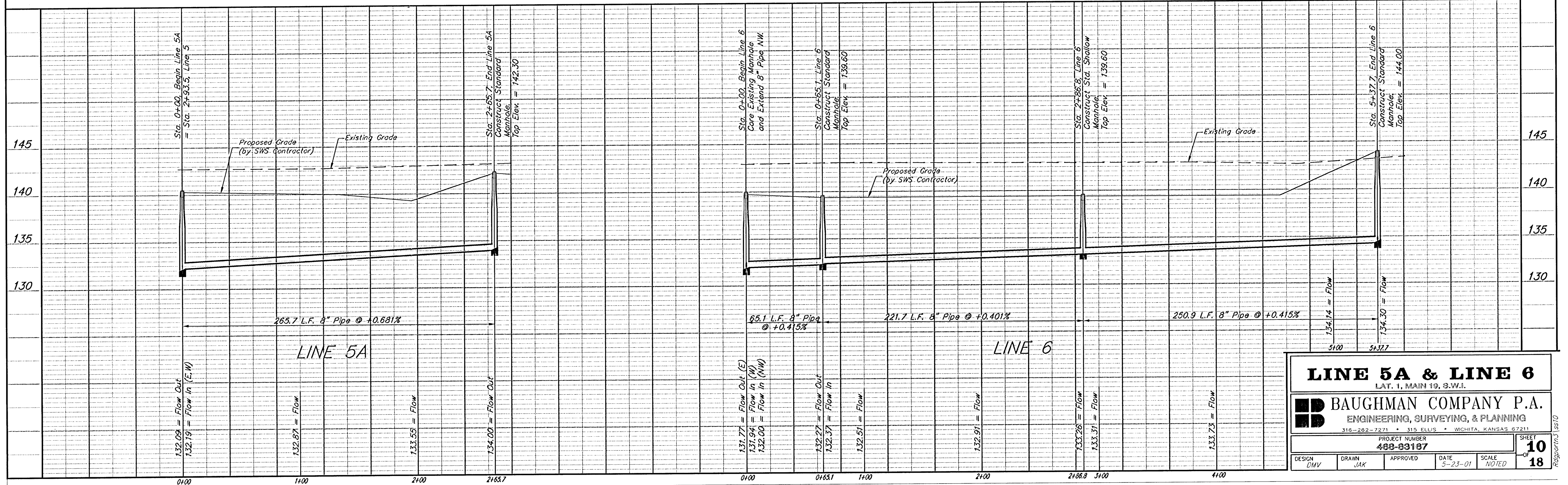
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
38	8" X 4" Tee Saddle	18	F	5A	0+28/Rt.	4'	13'
39	8" X 4" Tee Saddle	12	F	5A	0+60/Lt.	3.5'	7'
40	8" X 4" Tee Saddle	17	F	5A	0+91/Rt.	3.5'	13'
41	8" X 4" Tee Saddle	16	F	5A	1+57/Rt.	2.5'	13'
42	8" X 4" Tee Saddle	15	F	5A	2+30/Rt.	3'	13'
43	8" X 4" Tee Saddle	7	F	6	0+35/Rt.	3.5'	5'
44	8" X 4" Tee Saddle	6	F	6	1+40/Rt.	3'	5'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON



LINE 5A & LINE 6
LAT. 1, MAIN 19, S.W.I.

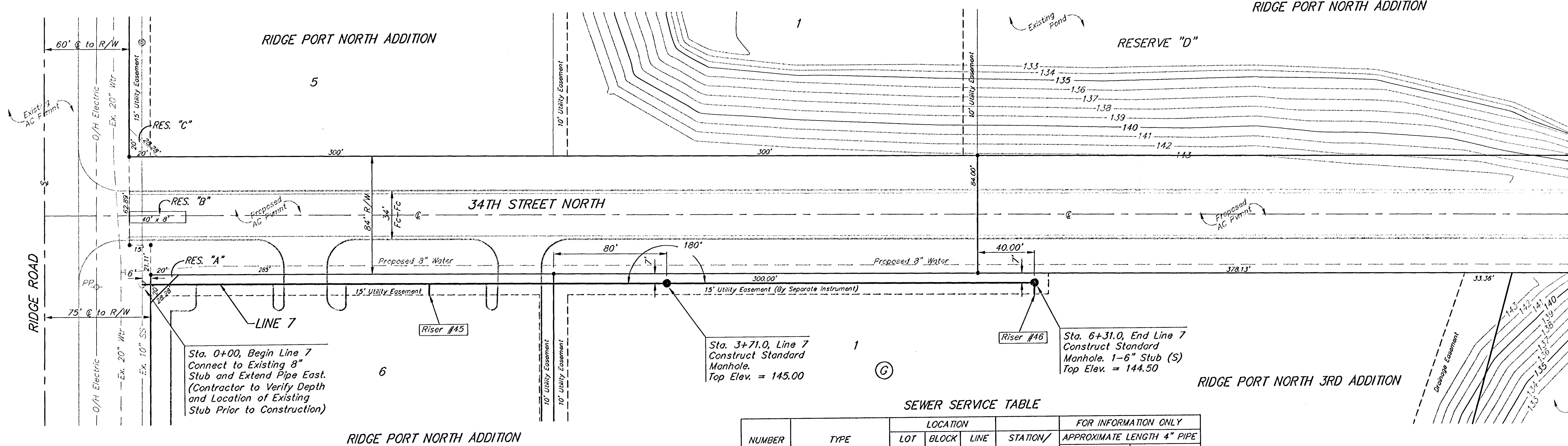
BAUGHMAN COMPANY P.A.
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316-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
488-83187

DESIGN DMV DRAWN JAK APPROVED DATE 5-23-01 SCALE NOTED

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BENCHMARK:
City Disc at the SW Corner
of R.C.B.C for Big Slough
AR Ridge Road
Elev. = 144.22 City Datum

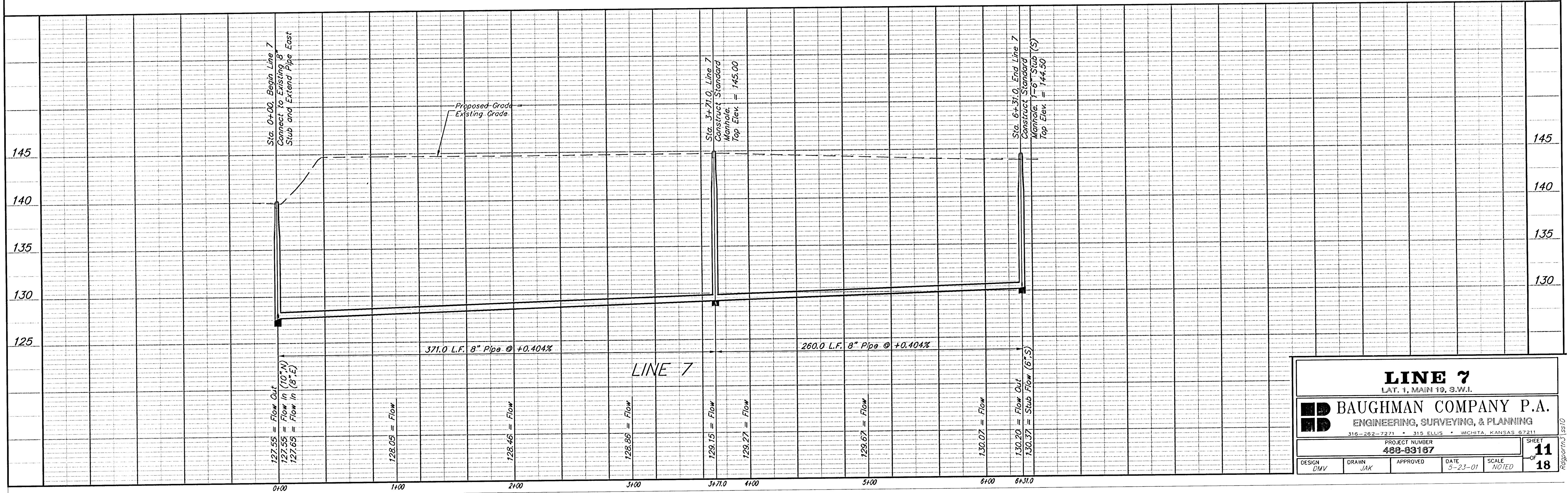


SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL HORIZONTAL
45	8" X 6" Tee Saddle	6	-	7	2+03/Rt.	12.5' 8'
46	6" Stub w/ Riser	1	G	7	6+31.0/Rt.	10.5' 8'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



LINE 7
LAT. 1, MAIN 19, S.W.I.

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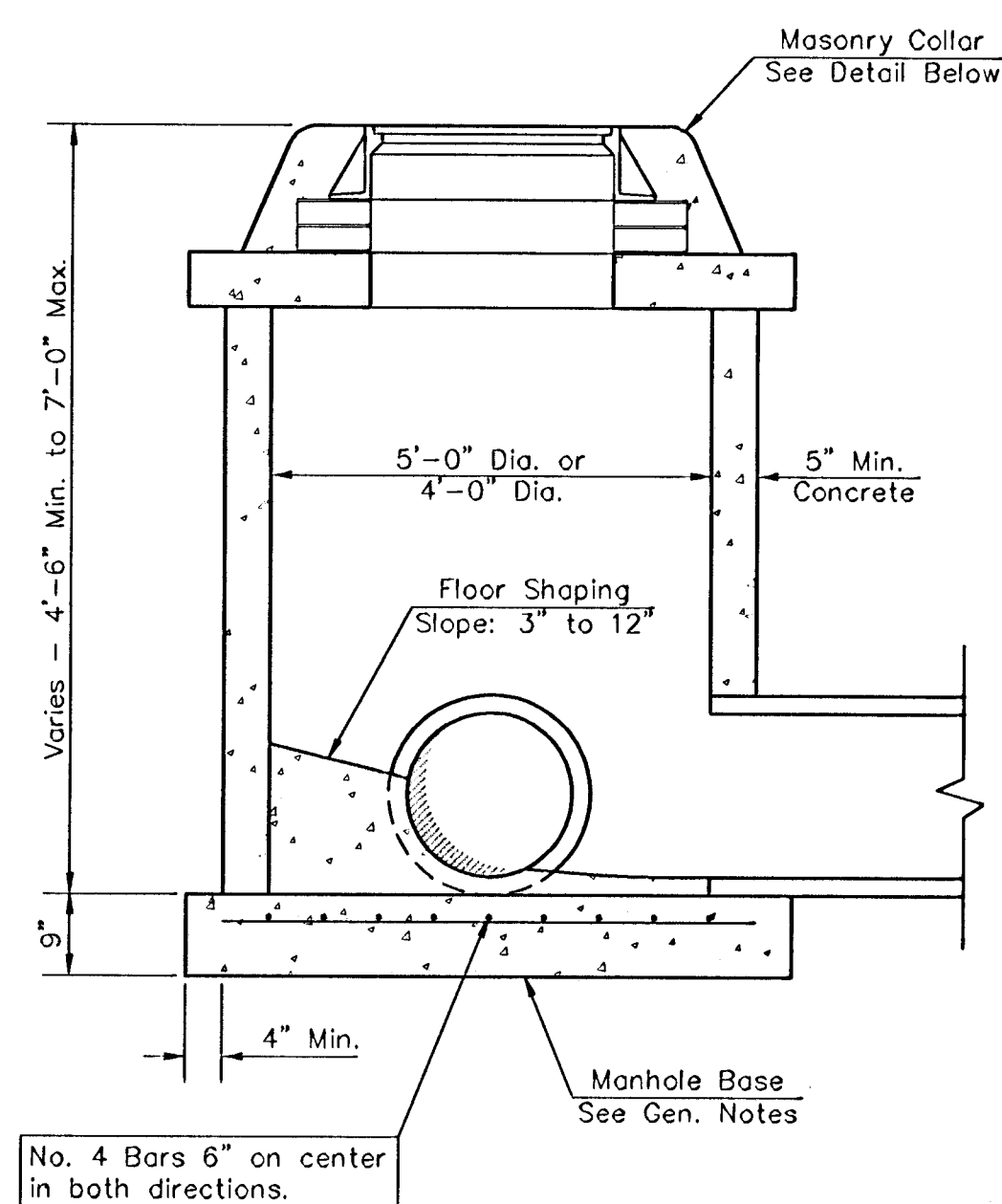
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488-83187

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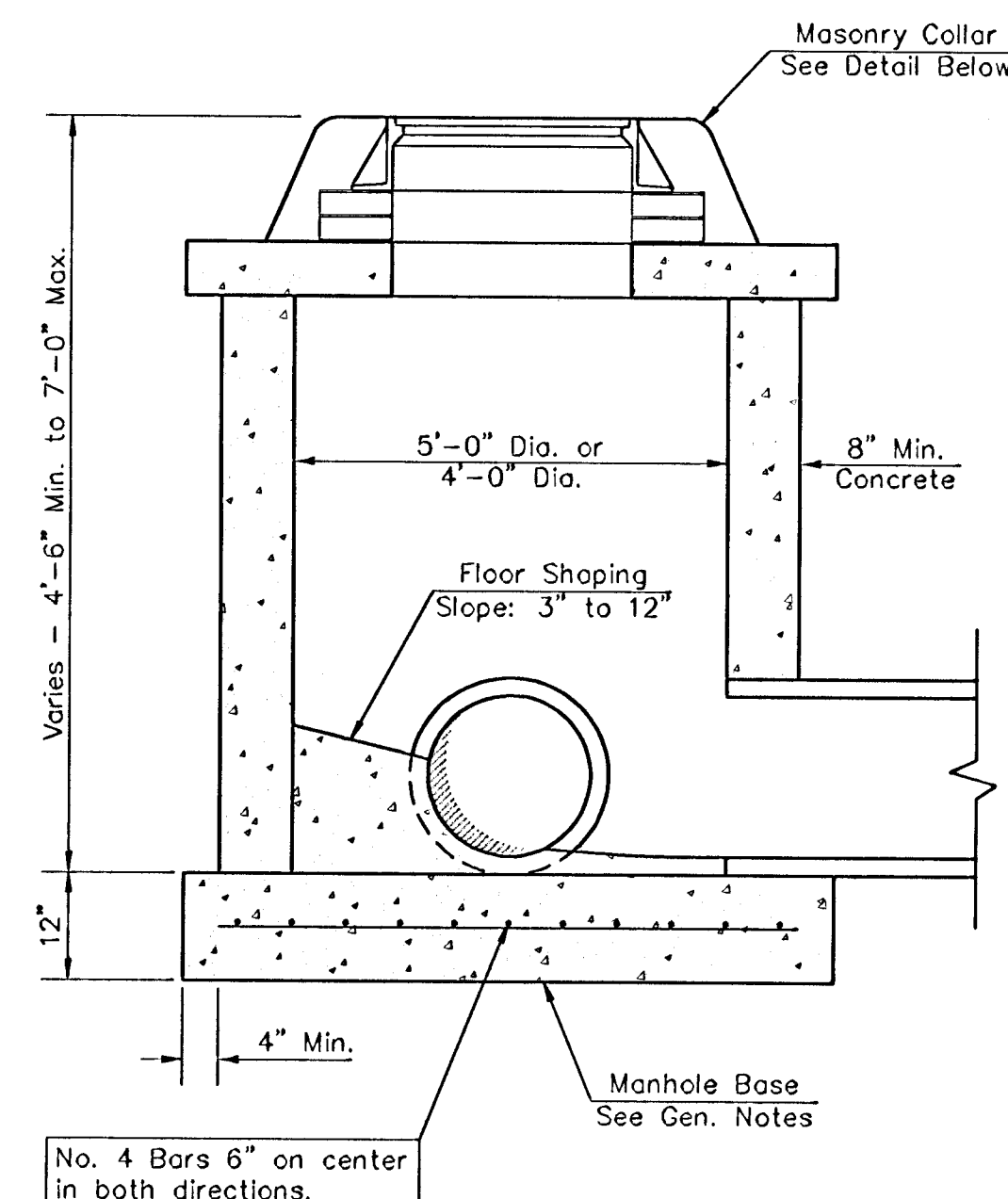
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GENERAL NOTES

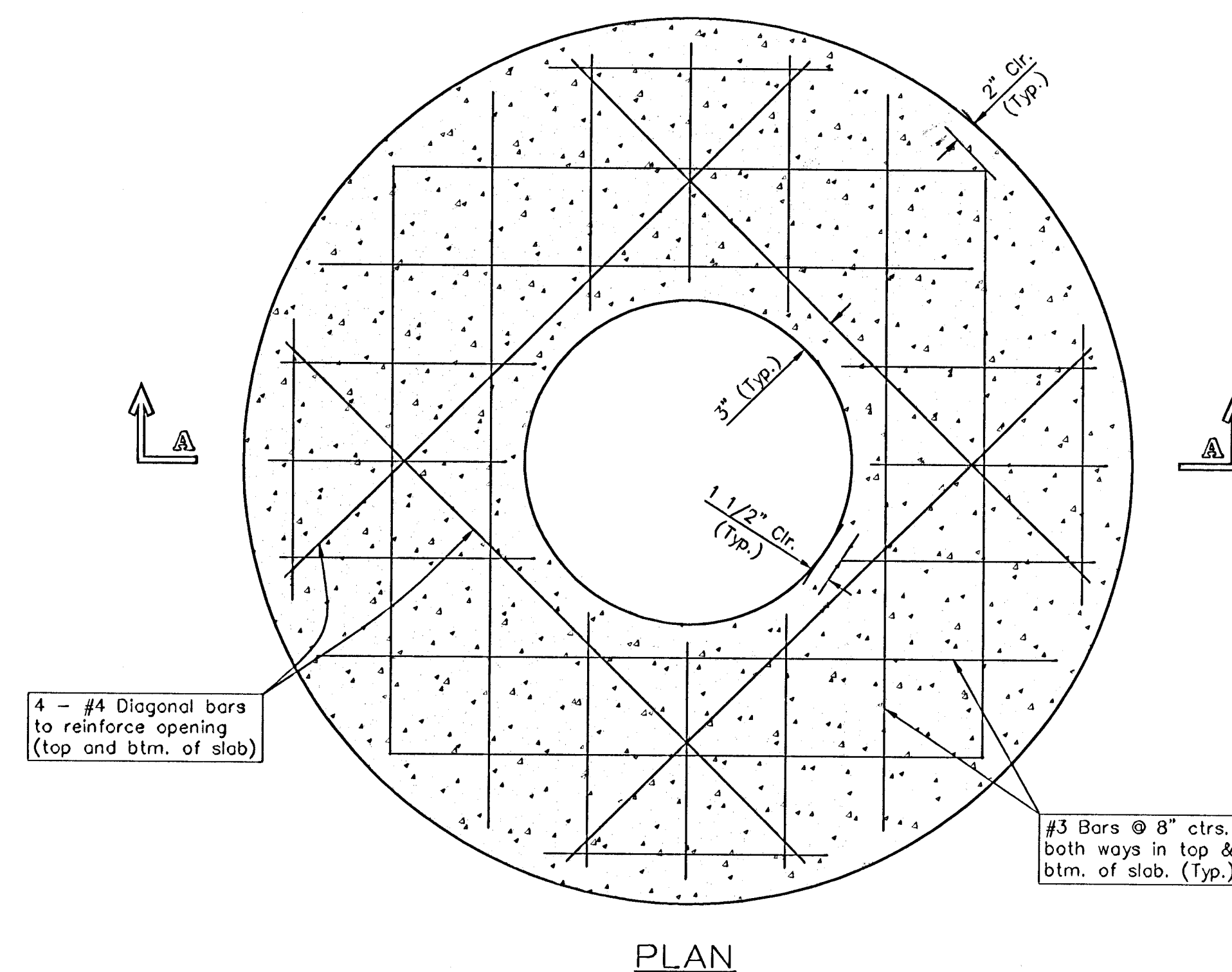
1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. 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.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.



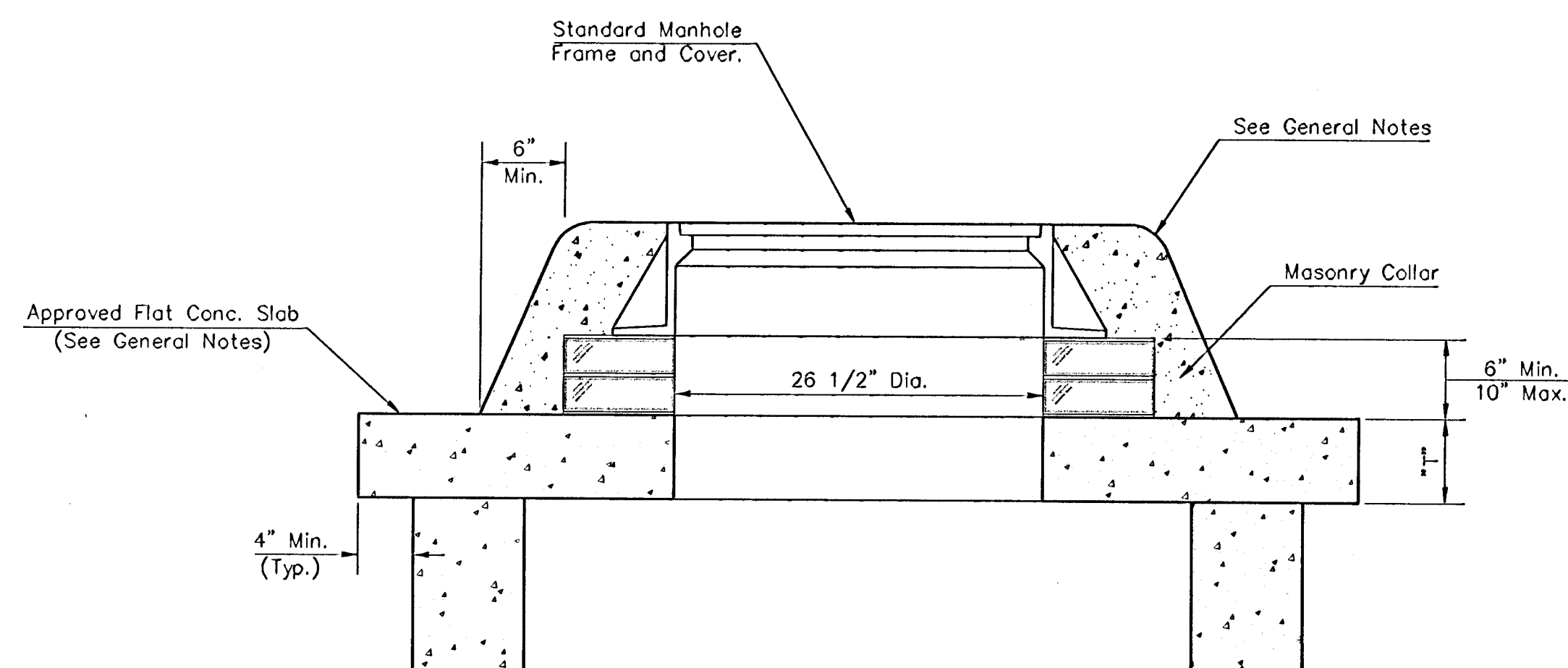
SHALLOW TYPE "P" MANHOLE



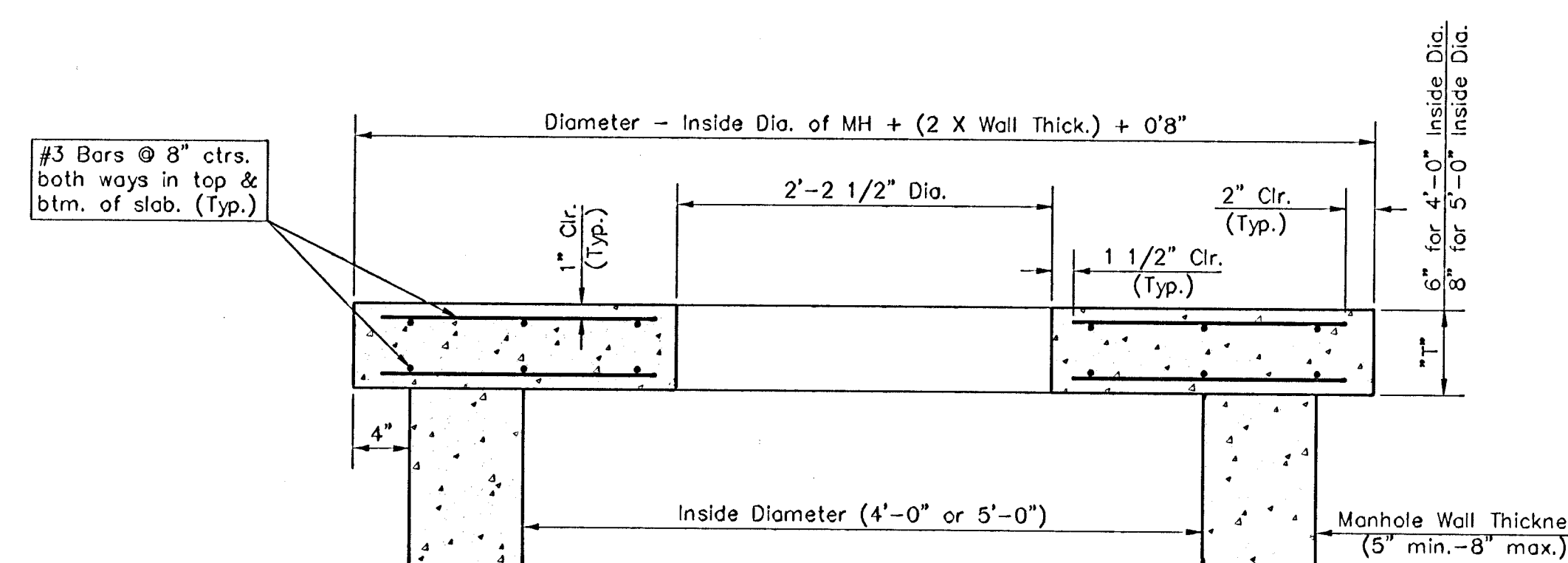
SHALLOW TYPE "C" MANHOLE



PLAN



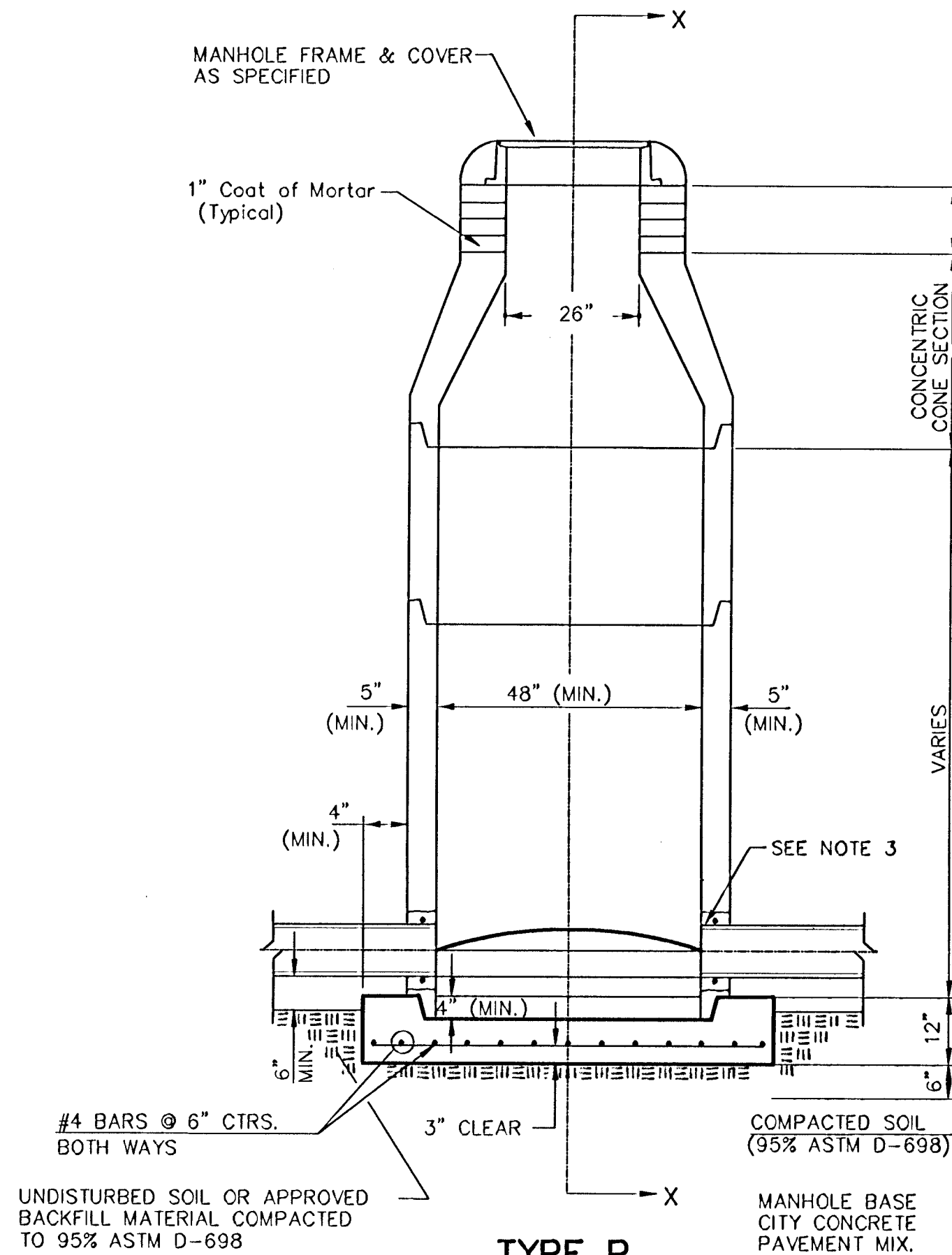
MASONRY COLLAR DETAIL



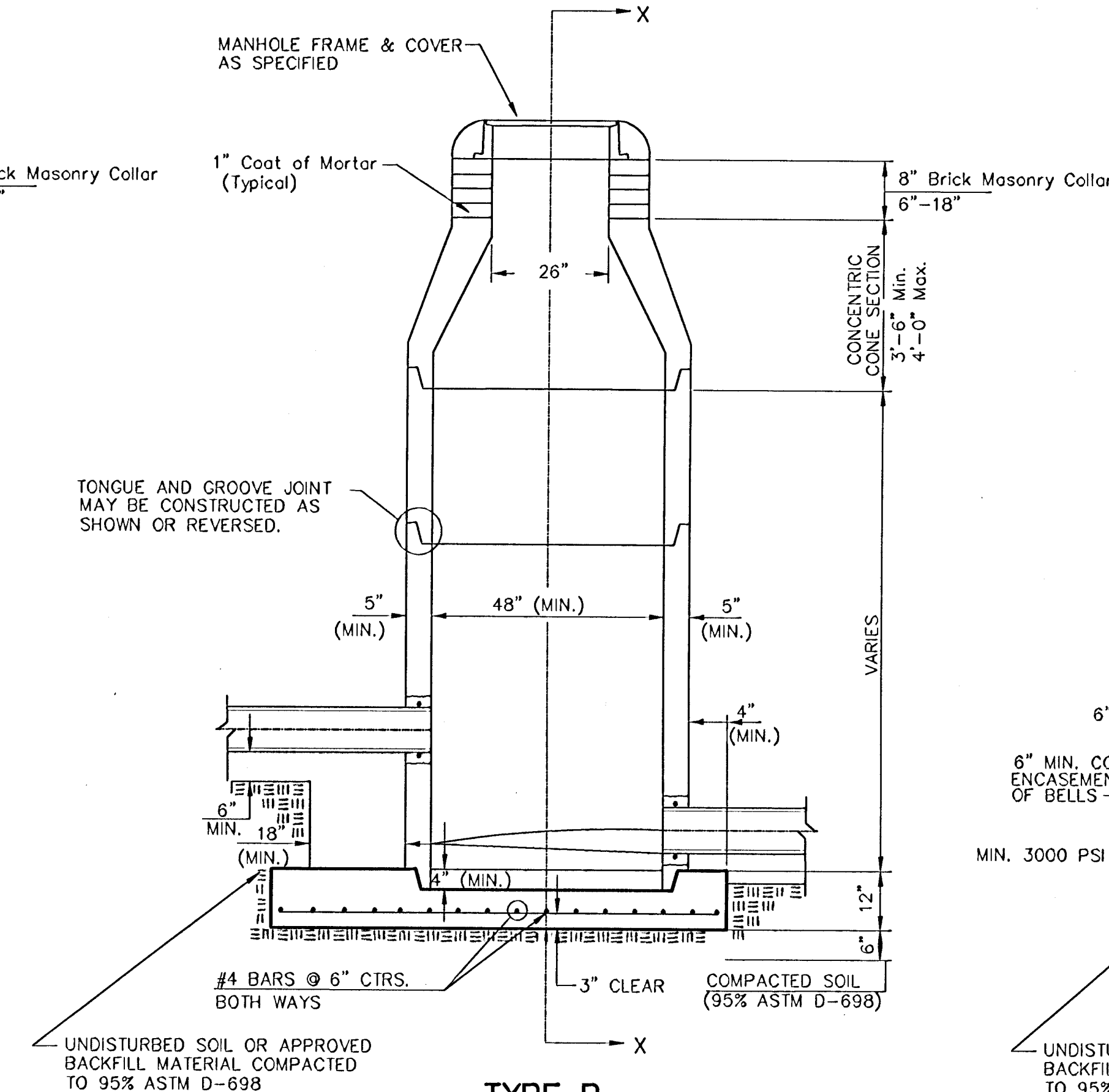
SECTION A-A

FLAT CONCRETE SLAB DETAILS

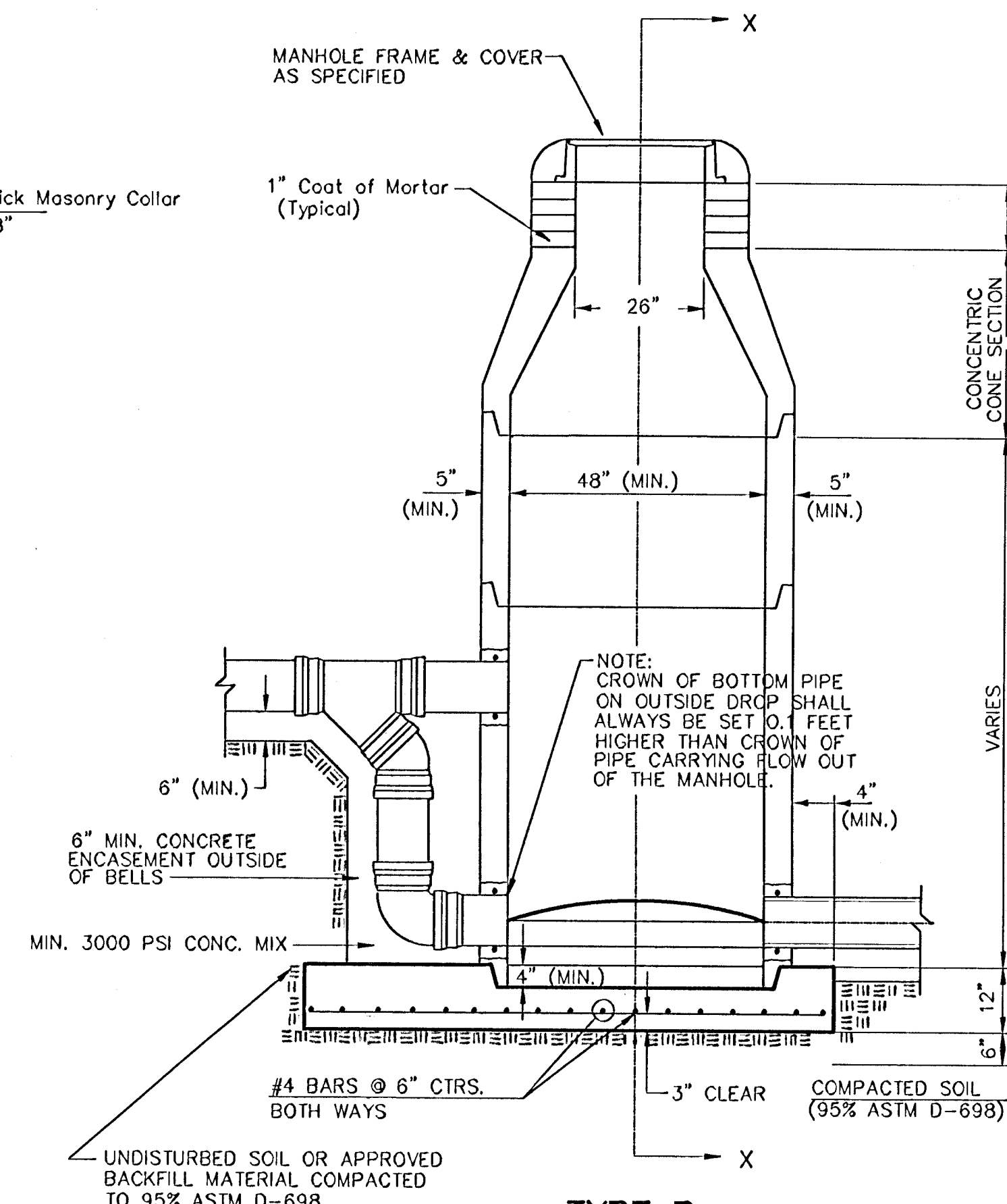
SEWER APPURTENANCES DETAILS



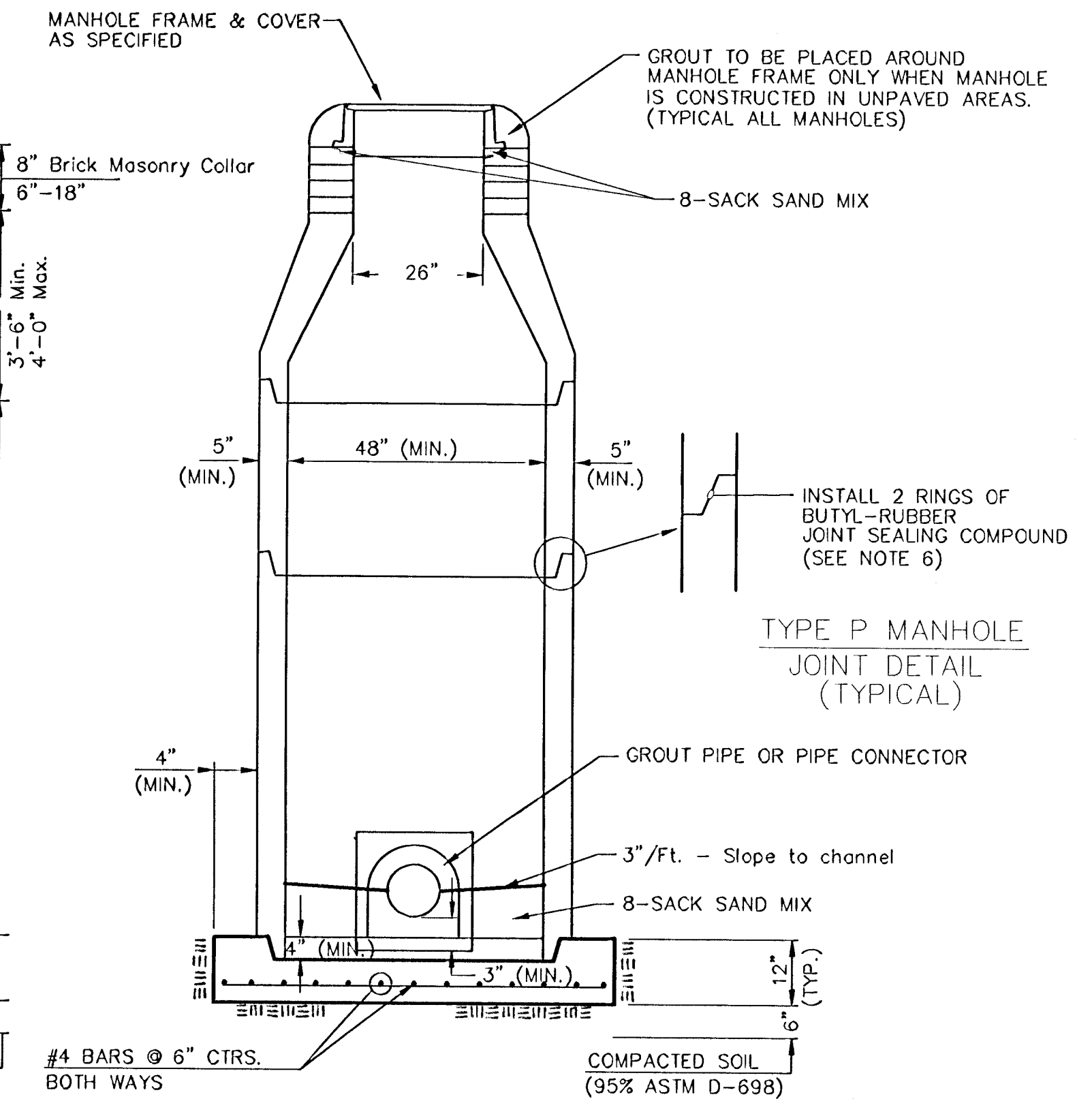
**TYPE P
STANDARD MANHOLE**



**TYPE P
INSIDE DROP MANHOLE**



**TYPE P
OUTSIDE DROP MANHOLE**



**SECTION X
(TYPICAL)**

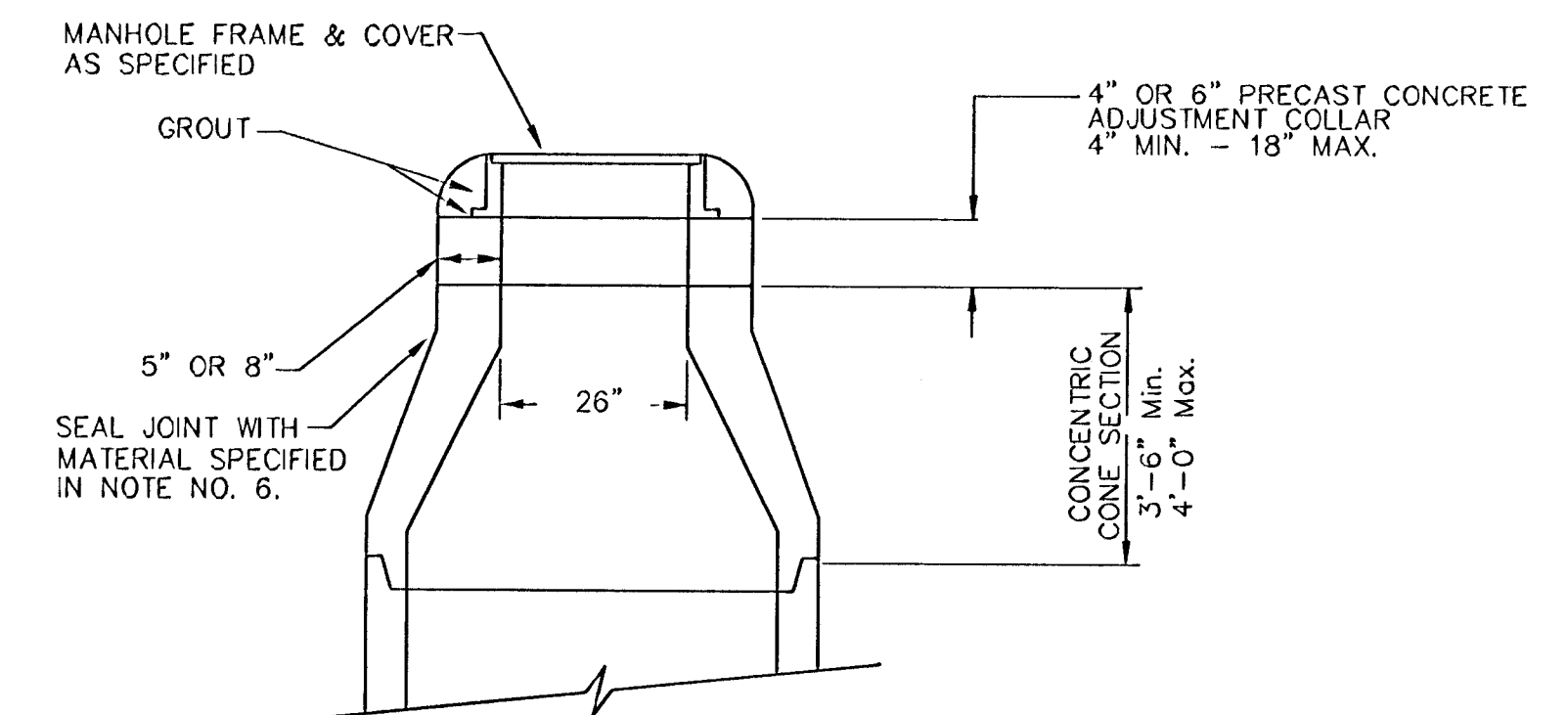
GENERAL NOTES

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 SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT 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 TNEPEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 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 GROUTING 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 GROUTED INTO THE OPENING USING AN APPROVED NON-SHRINK 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 AND TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

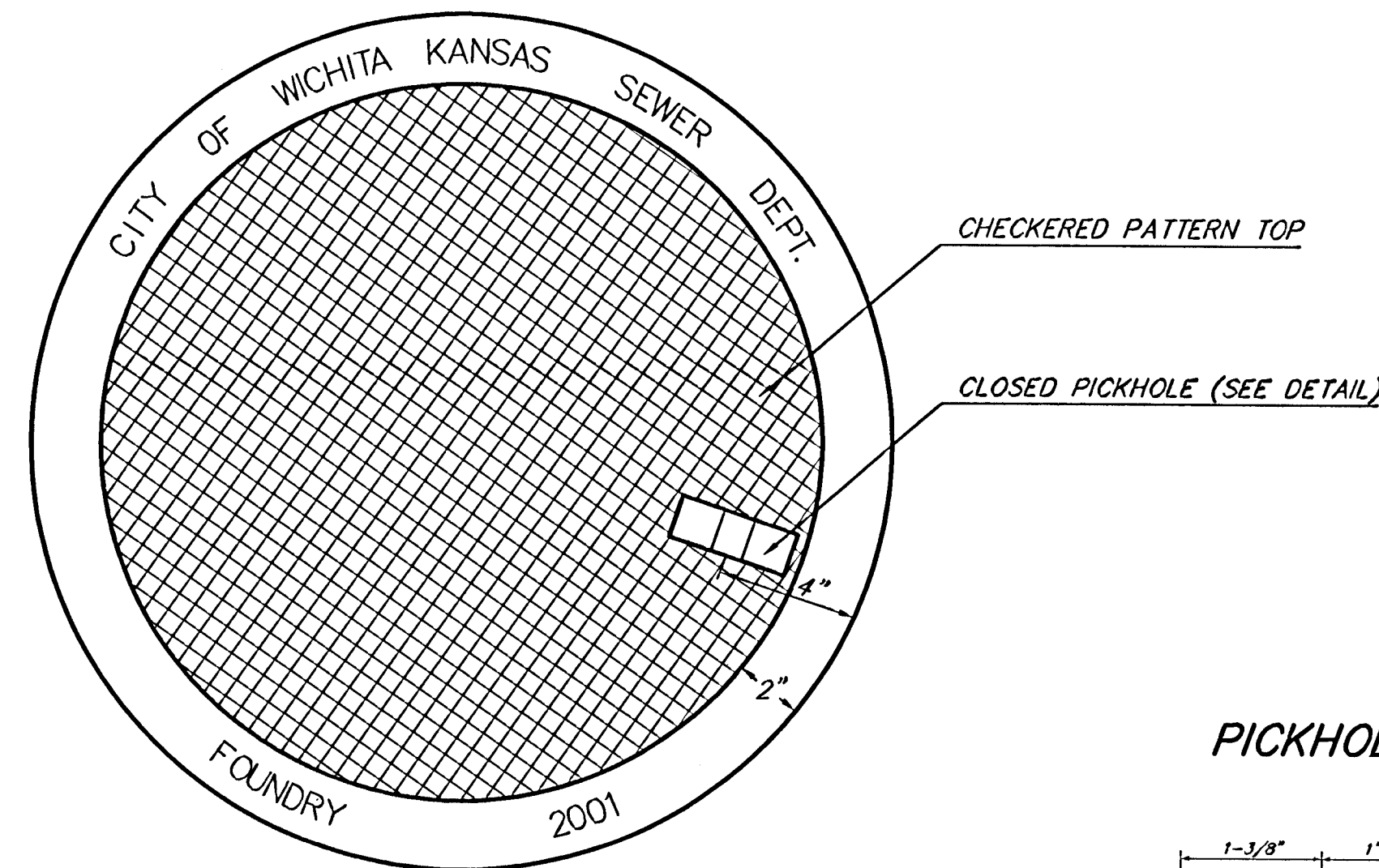
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING 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.



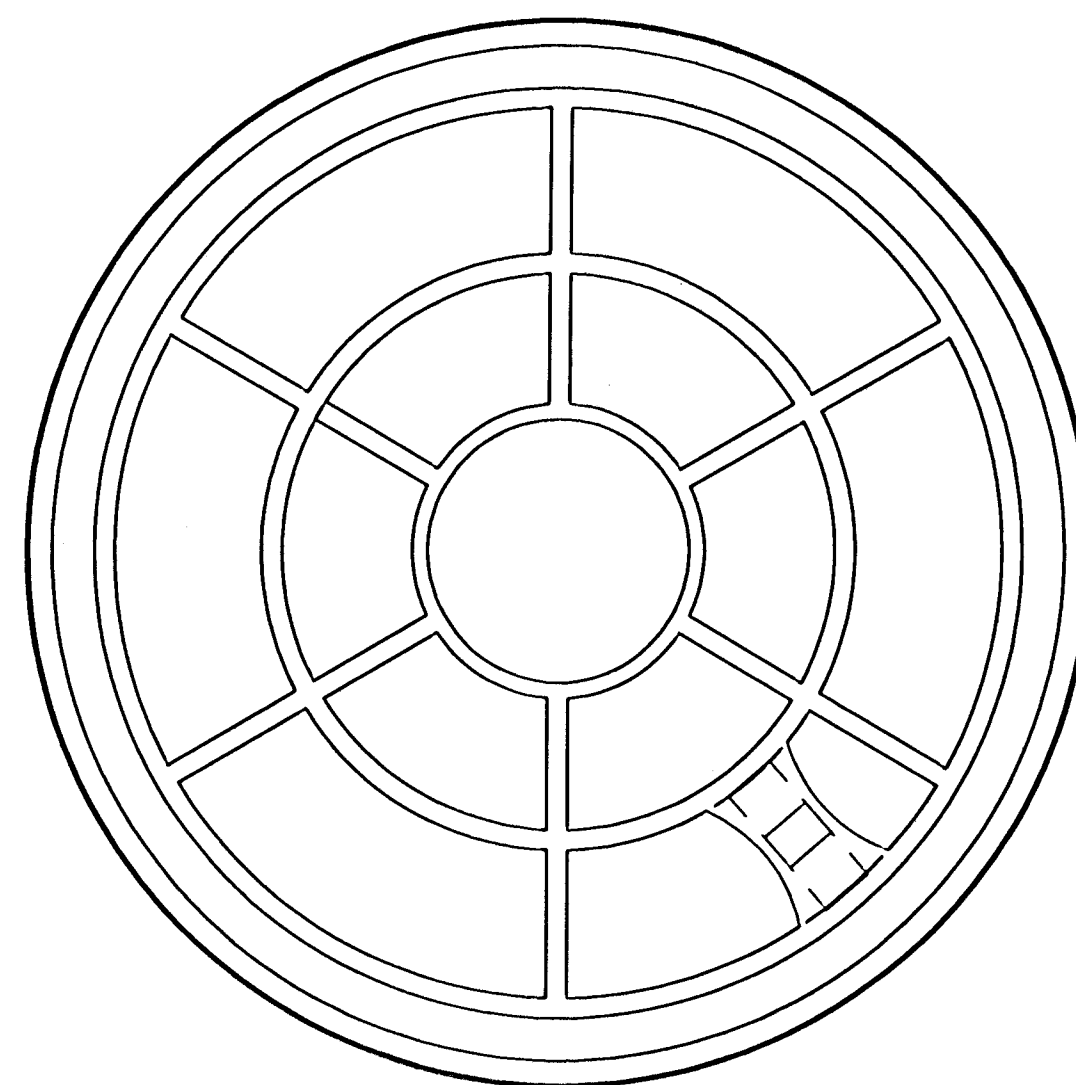
**ALTERNATE CONSTRUCTION
IN UNPAVED AREAS**

CITY OF WICHITA					
STD. MANHOLE DETAILS					
SEWER APPURTENANCES					
BAUGHMAN COMPANY P.A.					
ENGINEERING, SURVEYING, & PLANNING					
318-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER					
488-83187					
DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
STAFF	STAFF			NONE	13
					18

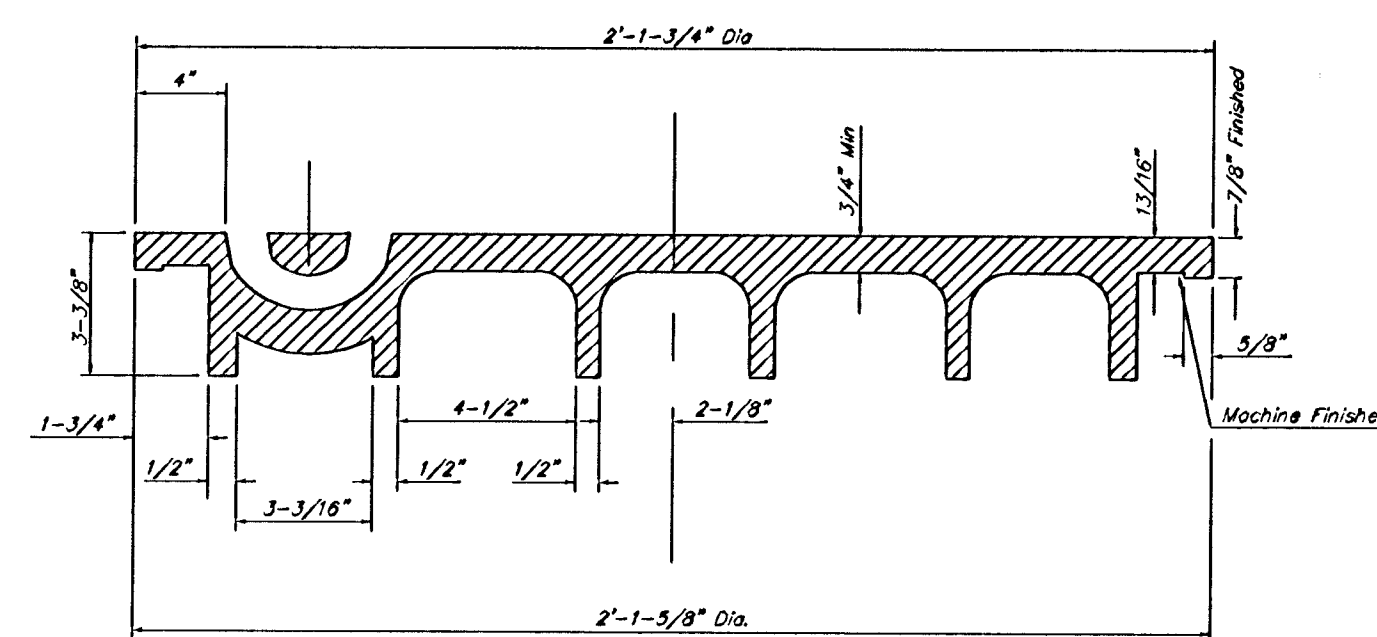
MANHOLE COVER
Weight = 180 Lbs.



TOP VIEW

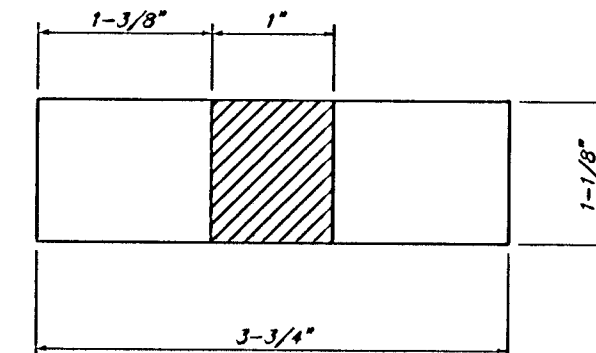


BOTTOM VIEW

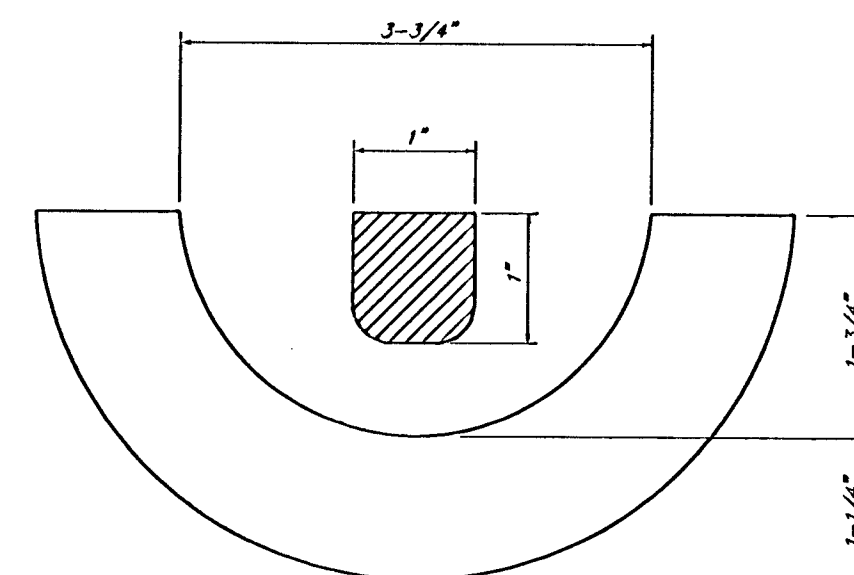


SECTION VIEW

PICKHOLE DETAIL



TOP VIEW

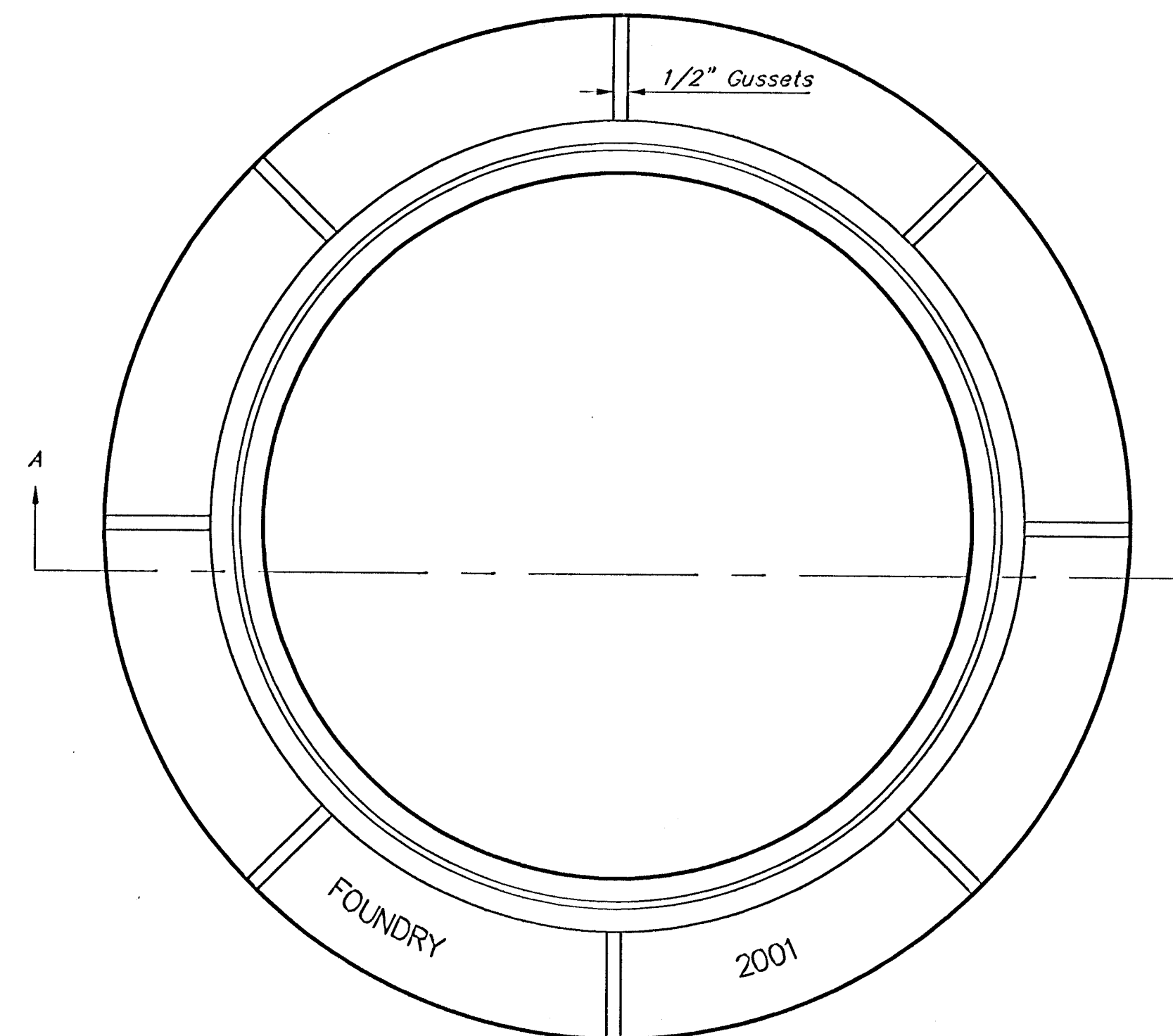


SECTION VIEW

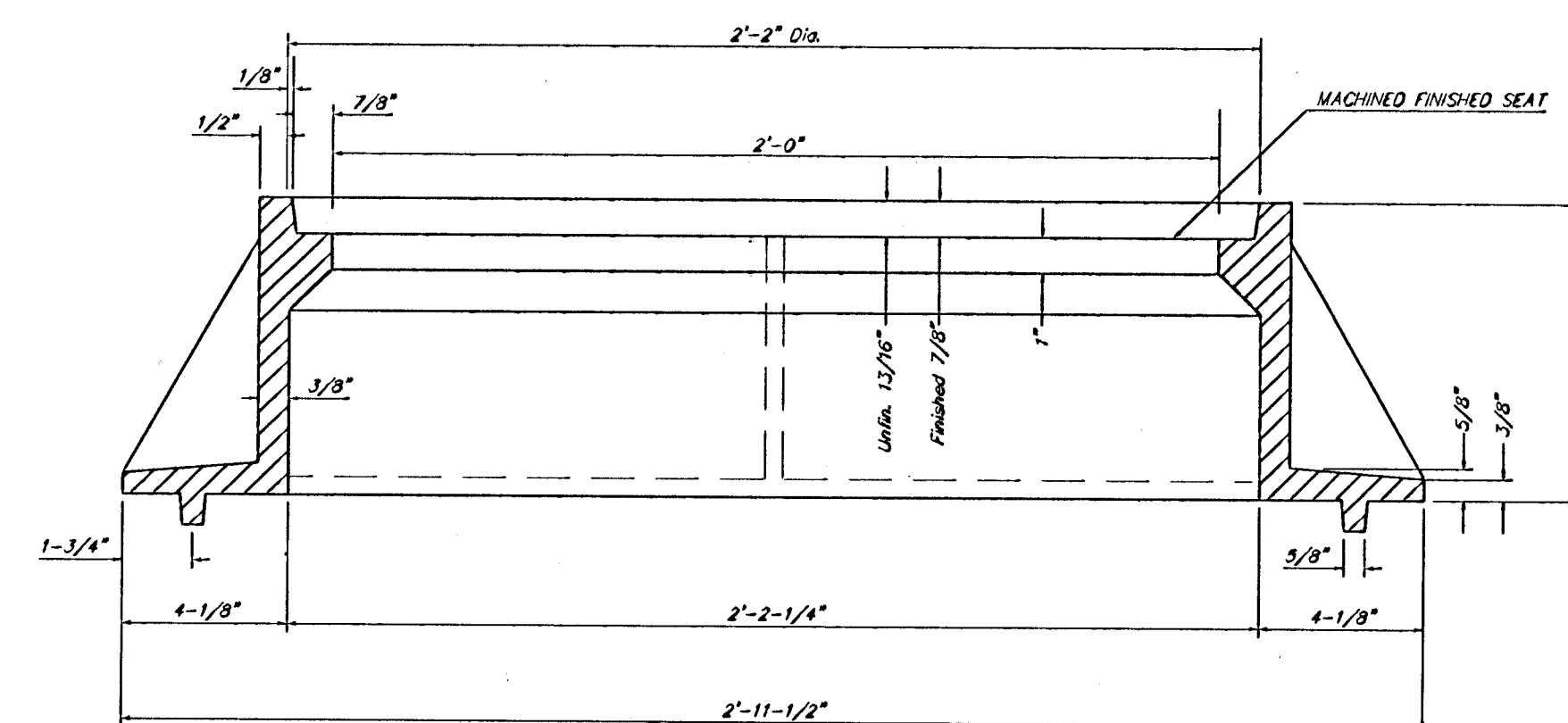
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE FRAME
Weight = 145 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

MANHOLE FRAME AND COVER DETAIL
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

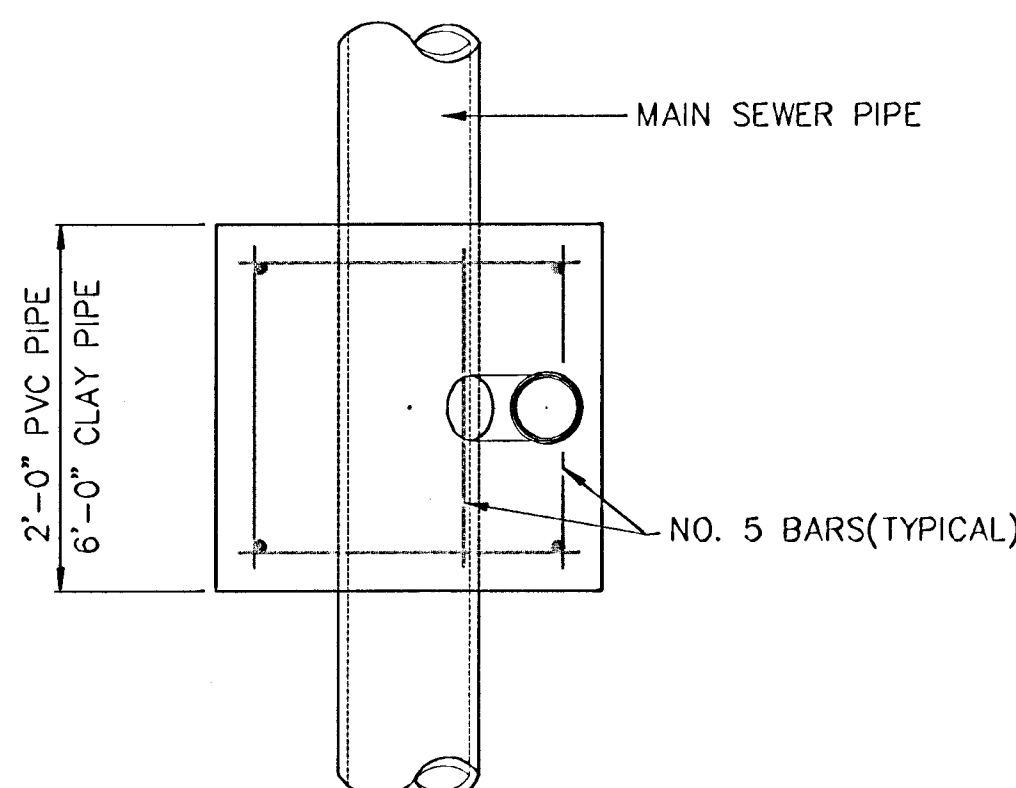
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
315-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
488-83187
DESIGN STAFF DRAWN STAFF APPROVED DATE SCALE NONE

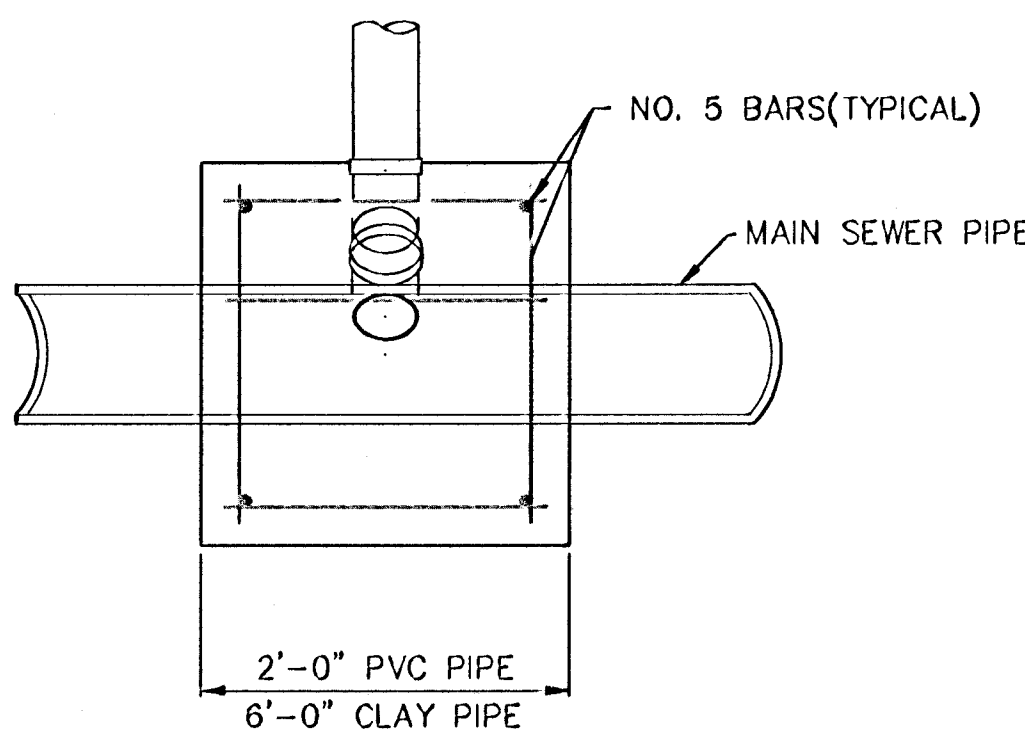
SHEET
14
OF
18

L. DeGroot, M.E., P.E.

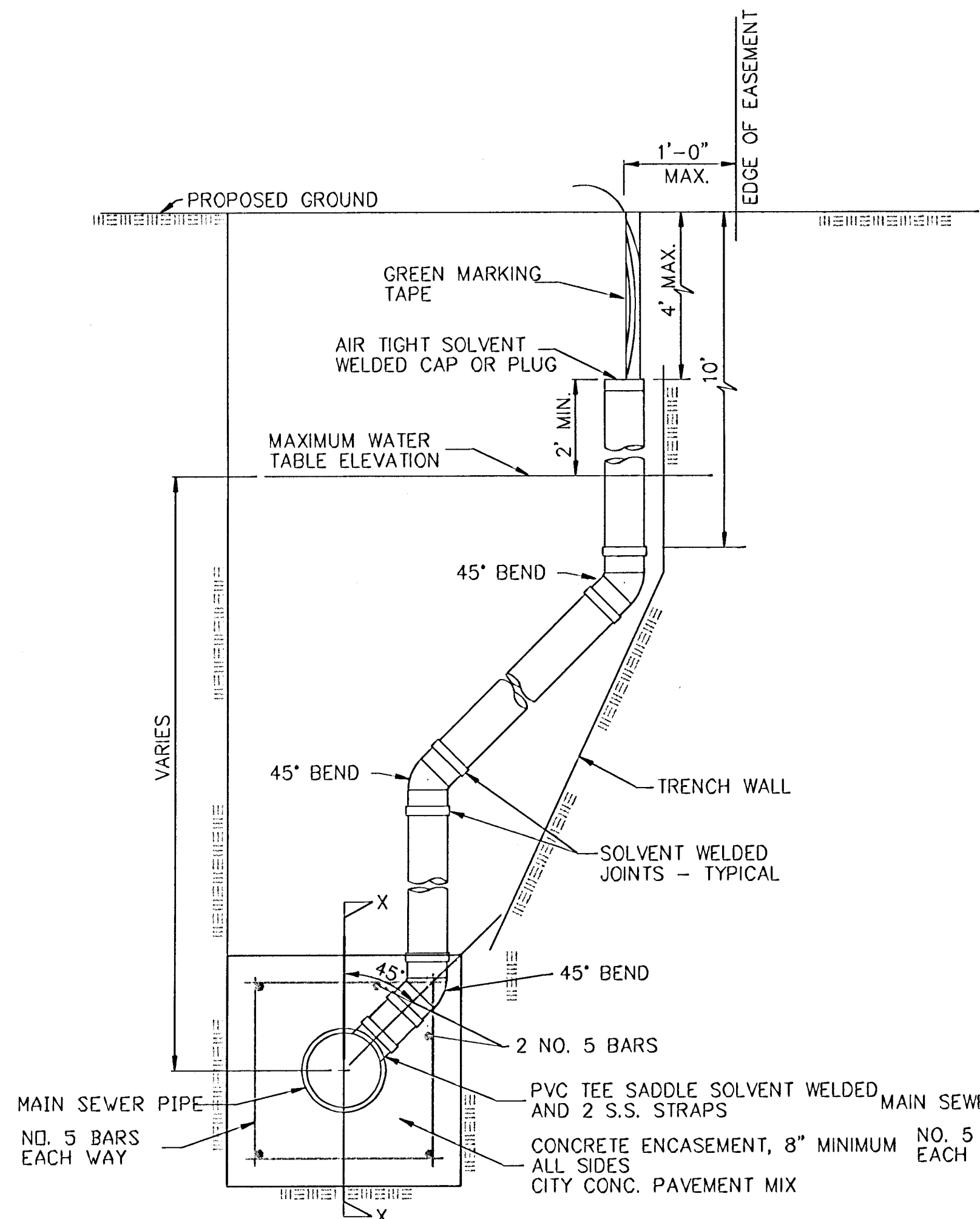
VERTICAL RISER DETAILS
ADOPTED AS STANDARD DESIGN
BY
CITY OF WICHITA, KANSAS
OCTOBER 1992



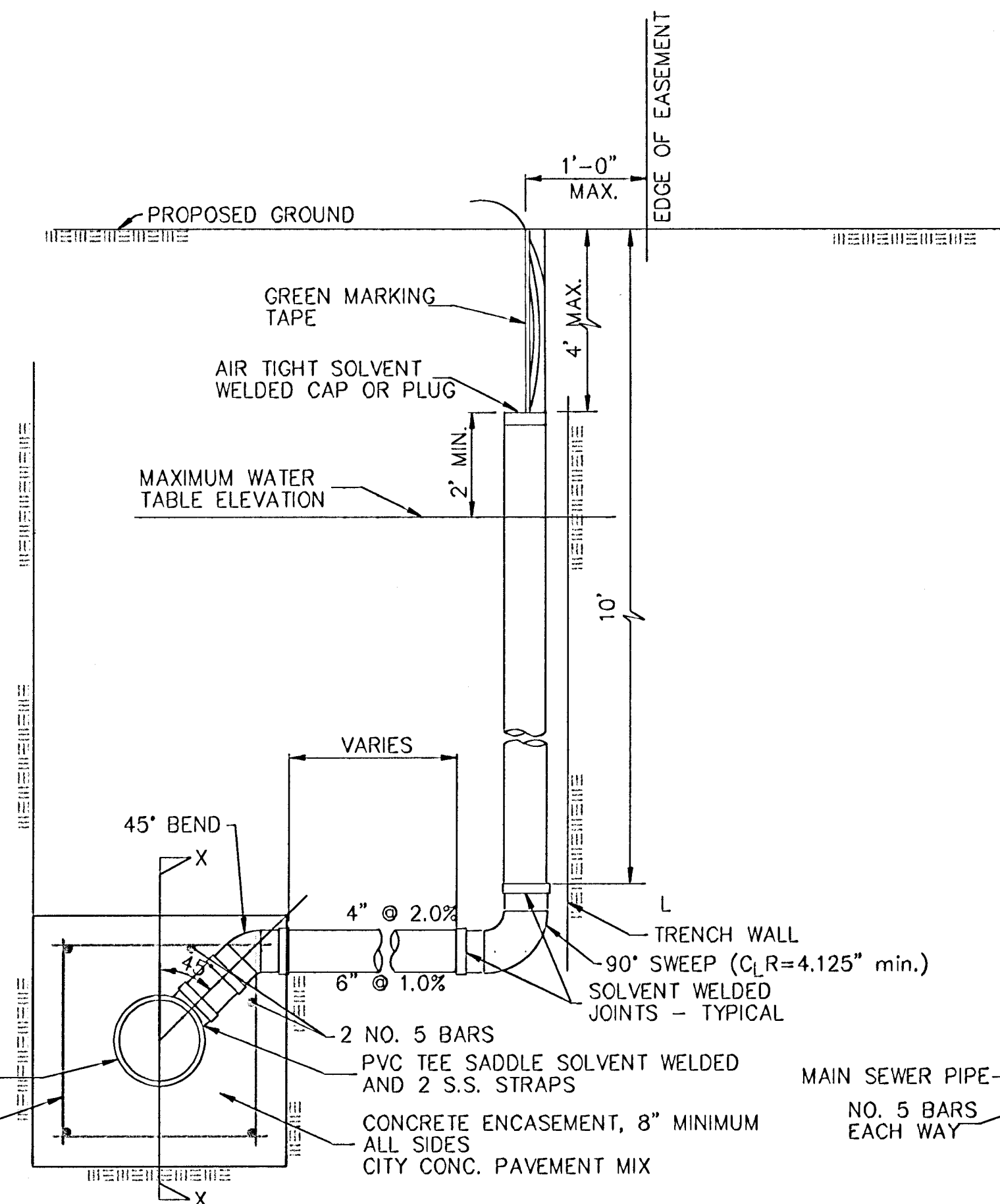
TYPICAL PLAN VIEW



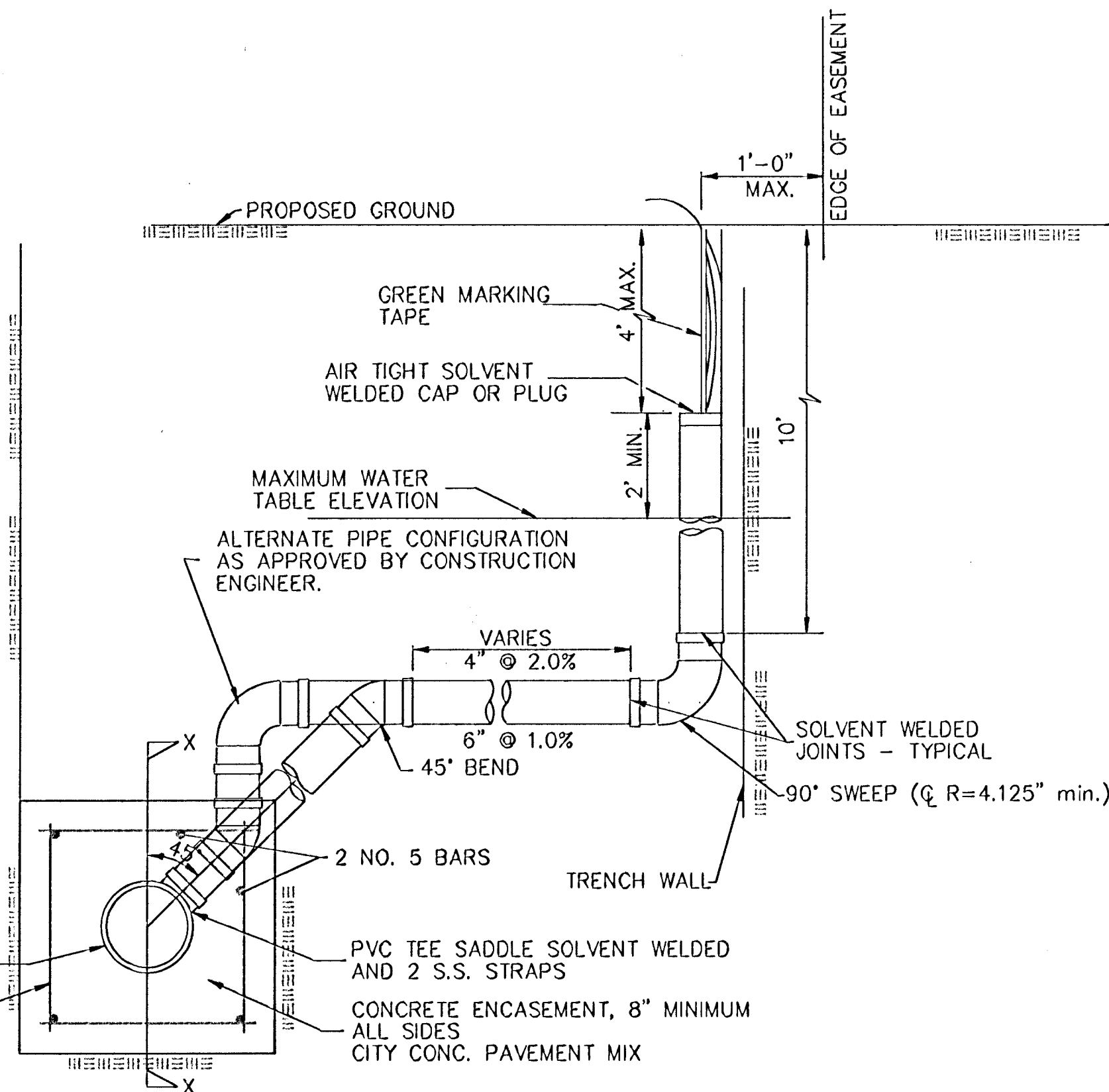
TYPICAL SECTION X-X



METHOD "A"



METHOD "B"



METHOD "C"

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

GENERAL NOTES

1. RISERS. Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table. Risers shall also be installed to serve all lots and tracts where the sanitary sewer main depth is greater than 12 feet below the proposed ground elevation. Installation of risers because of field conditions shall be as approved by the Construction Engineer. The location of the risers to serve developed property shall be approved by the property owner and the Construction Engineer.
2. PIPE STUBS. Pipe stubs shall be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowline of the manhole pipe stub and the flowline of the sanitary sewer main out of the manhole shall not exceed 2 feet. Risers shall be utilized at manhole pipe stubs as indicated in Note 1. Manhole pipe stubs shall be set such that the top of the stub is not lower than the top of the sanitary sewer main.
3. SIZING. Pipe stubs and risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers or pipe stubs are required because of field conditions, the risers and stubs shall be six-inch diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers and stubs shall be approved by the Construction Engineer prior to installation.
4. RISER OR STUB MATERIAL. Risers and stubs shall be constructed of Schedule 40 PVC Pipe, meeting the requirements of the latest revision of A.S.T.M. All pipe joints shall be solvent welded.
5. REINFORCED CONCRETE ENCASEMENT. Riser connections to clay pipe sanitary sewers shall be reinforced concrete encased both ways from the riser centerline. The reinforced concrete encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary Sewer mains shall be reinforced concrete encased one foot each way from the riser centerline. The concrete encasement shall be reinforced using reinforcing steel as shown in the appropriate drawing. The concrete shall conform to the City Standard Specifications for concrete pavement.
6. BEDDING. Bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
7. SUPPORT OF RISERS. Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and backfilling the riser pipe shall be approved by the Construction Engineer.
8. PLUGGING. The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
9. TOP OF THE RISER PIPE. The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. Where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation two feet (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
10. MARKING. Locations of the ends of the sanitary sewer riser pipe shall be marked by fastening green colored plastic tape to the end of the riser. The tape shall be supported by a length of wooden 2 x 4, extending from the top of the riser pipe to the proposed ground surface. The green tape shall be visible and extend one foot above the proposed ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.
11. LOCATION MEASURES. The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicating the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser.
12. RISER LOCATION. The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
13. PAYMENT. "Sanitary sewer risers" shall be paid for at the contract unit price per each, which price shall be full compensation for all pipe, fittings, marking tape, length of wooden 2 x 4, reinforced concrete encasement, support during backfill, backfill, labor, site restoration, and any other items necessary to complete the work.
"Manhole stubs" shall be paid for at the contract unit price per each, which shall be full compensation for all labor, material, and incidentals necessary to complete the work including all pipe, fittings, reinforced concrete encasement, and all other items as required and listed for "Sanitary Sewer Risers".

City of Wichita Standard Riser Details					
BAUGHMAN COMPANY P.A. ENGINEERING, SURVEYING, & PLANNING 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER 400-03107				SHEET 15	
DESIGN	DRAWN	APPROVED	DATE	SCALE	18
				NONE	

WICHITA, SEDGWICK COUNTY, KANSAS

This plat of "RIDGE PORT NORTH 3RD ADDITION", Wichita Sedgewick County, Kansas has been submitted to and approved by the Wichita-Sedgewick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 16 day of December, 1999.

Wichita-Sedgewick County Metropolitan Area Planning Commission

Francis S. Garofalo, Chairman
Francis S. Garofalo



This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this day of 2000.

_____, Mayor

BENCHMARK:
CITY DISC AT THE SW CORNER
OF R.C.B.C. FOR
BIG SLOUGH AT RIDGE ROAD
ELEV. = 144.22 CITY DATUM
(1331.62 NGVD)

Entered on transfer record this _____ day
2000.

*Reviewed in accordance with K.S.A. 58-2005
of October, 2000.*

_____, City Clerk

_____, Mayor

Tricia L. Robella
Tricia L. Robella, L.S. #1246
Deputy County Surveyor
Sedgwick County, Kansas

James Alford, County Clerk

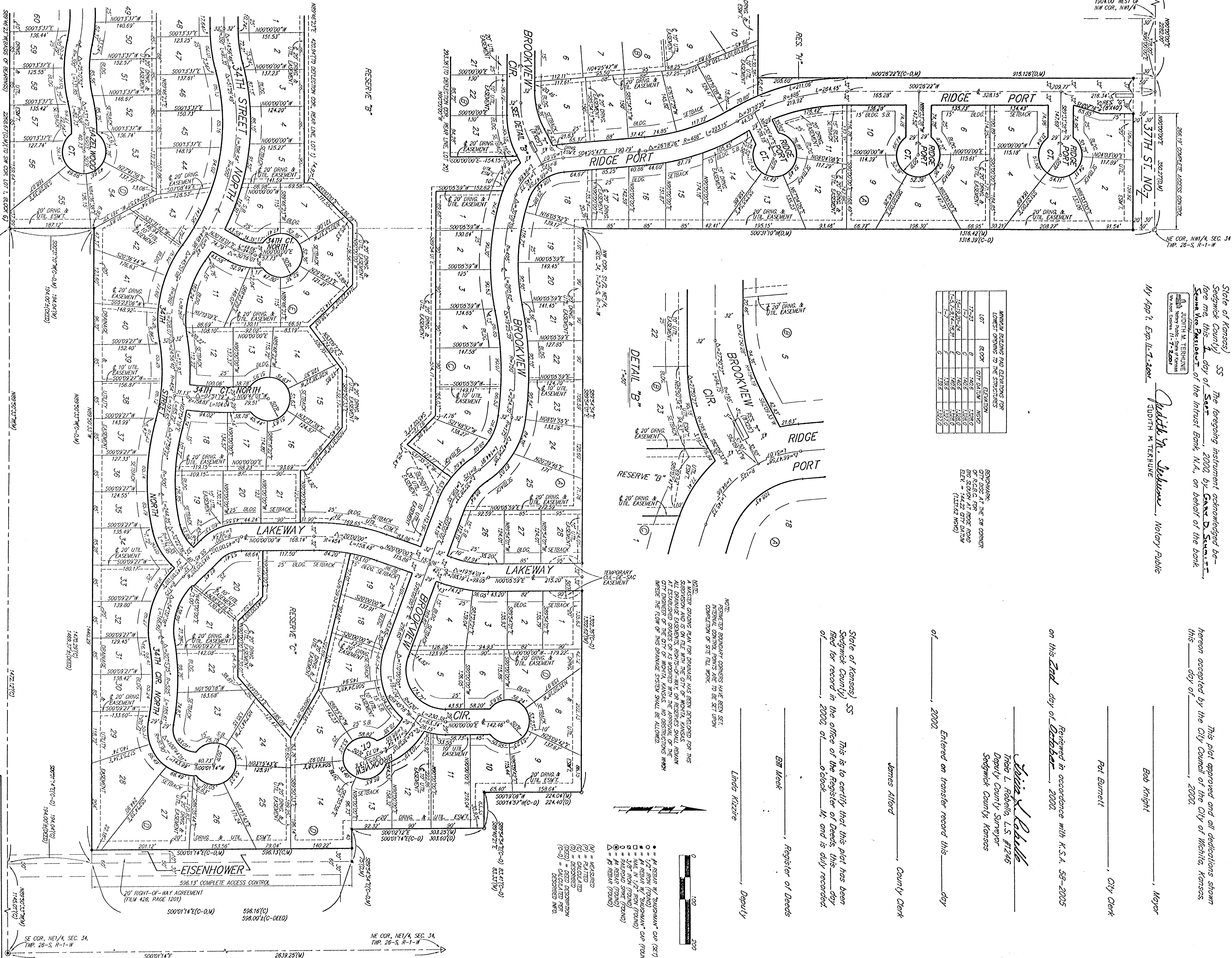
_____, *Register of Deeds*
Week
 _____, *Deputy*
Linda Kizzire

This is to certify that this plat has been
 filed for record in the office of the Register of Deeds, this ____ day
 of _____, 2000, at ____ o'clock ____ M; and is duly recorded

[illegible]

- = # RESIN W/ THUSIMANT CAP (SET)
- = 1/2" ROUN (FOUND)
- ◐ = # RESIN W/ THUSIMANT CAP (FOUND)
- ◑ = VAL IN 1/2" ROUN (FOUND)
- ◒ = 3/8" ROUN (FOUND)
- ◓ = BARBED SPIKE (FOUND)
- ◔ = # RESIN (FOUND)
- ◕ = # RESIN (FOUND)

(N) = MISSED
(P) = CALCULATED
(C) = CALCULATED
(D) = ASSUMED
(DEE) = DEED DESCRIPTION
(C-D) = CALCULATED PER
DESIGNED INFRA



WICHITA, SEDGWICK COUNTY, KANSAS

55

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

Baughman Company, P.A.

18-07422

CITY DISC AT THE SW CORNER
OF R.C.B.C. FOR
BING SLOUGH AT RIDGE ROAD
ELEV. = 144.22 CITY DATUM
(1331.62 NGVD)

NOTE: PERMETER BOUNDARY CORNERS HAVE BEEN SET. INTERNAL CONTROL POINTS ARE TO BE SET UPON COMPLETION OF SITE FILL WORK.

of the plat.

a Kansas Limited Liability Company

Jay W. Russell

Comm. 15 Jan

Kevin M. Mullen, President
Ritchie Associates, Inc.

My App't. Exp. 11-7-2001

Judith M. Terhune, Notary Public
JUDITH M. TERHUNE

JUDITH M. TERHUNE

JUDITH M. TERHUNE

Limited Liability Companies

on behalf of the company.

on behalf of the company.

on behalf of the company.

My App't. Exp. 11-7-2001

MARTIN. Johnson, Notary Public
JUDITH M. TERPINE

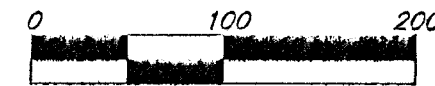
✓ JUDITH M. TERNYK

✓ JUDITH M. TERNYK



RIDGE PORT NORTH 4TH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- = 1/2" IRON (FOUND)
- = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
- = NAIL IN 1/2" IRON (FOUND)
- ◇ = 3/8" IRON (FOUND)
- = RAILROAD SPIKE (FOUND)
- = #4 REBAR (FOUND)
- △ = #5 REBAR (FOUND)

(M) = MEASURED
(P) = PLATTED
(C) = CALCULATED
(D) = DESCRIBED
(DEED) = DEED DESCRIPTION
(C-D) = CALCULATED PER DESCRIBED INFO.
(C-DEED) = CALCULATED PER DEED DESCRIPTION

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION
1-11	A	141.0
12-34	C	141.0
1	D	141.0

NOTE:
A DRAINAGE PLAN HAS BEEN DEVELOPED FOR THE COMMERCIAL LOTS AND IS ON FILE WITH THE CITY OF WICHITA, KANSAS. DRAINAGE INTENT SHALL REMAIN AS DEPICTED OR AS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER OF THE CITY OF WICHITA, KANSAS. NO OBSTRUCTIONS WHICH IMPEDE THE FLOW OF THIS DRAINAGE PLAN SHALL BE ALLOWED.

A MASTER GRADING PLAN FOR DRAINAGE HAS BEEN DEVELOPED FOR THE RESIDENTIAL LOTS AND IS ON FILE WITH THE CITY OF WICHITA, KANSAS. ALL DRAINAGE EASEMENTS, RIGHTS-OF-WAY, OR RESERVES SHALL REMAIN AT ESTABLISHED GRADES OR AS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER OF THE CITY OF WICHITA, KANSAS. NO OBSTRUCTIONS WHICH IMPEDE THE FLOW OF THIS DRAINAGE SYSTEM SHALL BE ALLOWED.

BENCHMARK:
"C" ON HUBBARD OF R.C.B.C.
73' W. OF SE COR., SEC. 28,
TWP. 26-S, R-1-W
ELEV. = 144.22 CITY DATUM (1331.62 M.S.L.)

604 STEP BENCH IN H.P. 15' N. &
40' E. OF THE INTERSECTION OF 34TH ST. N.
AND EISENHOWER
ELEV. = 144.00 CITY DATUM (1331.40 M.S.L.)

RIDGE ROAD

SW COR. NW 1/4, SEC. 34,
TWP. 26-S, R-1-W

S89°46'23"W (BASIS OF BEARINGS)

2268.67'(D.M.) (TO CENTER OF SEC. 34)

CENTER, SEC. 34,
TWP. 26-S, R-1-W