

CITY OF WICHITA, KANSAS

STORM WATER SEWER NO. 204 (NORTHWEST VILLAGE)

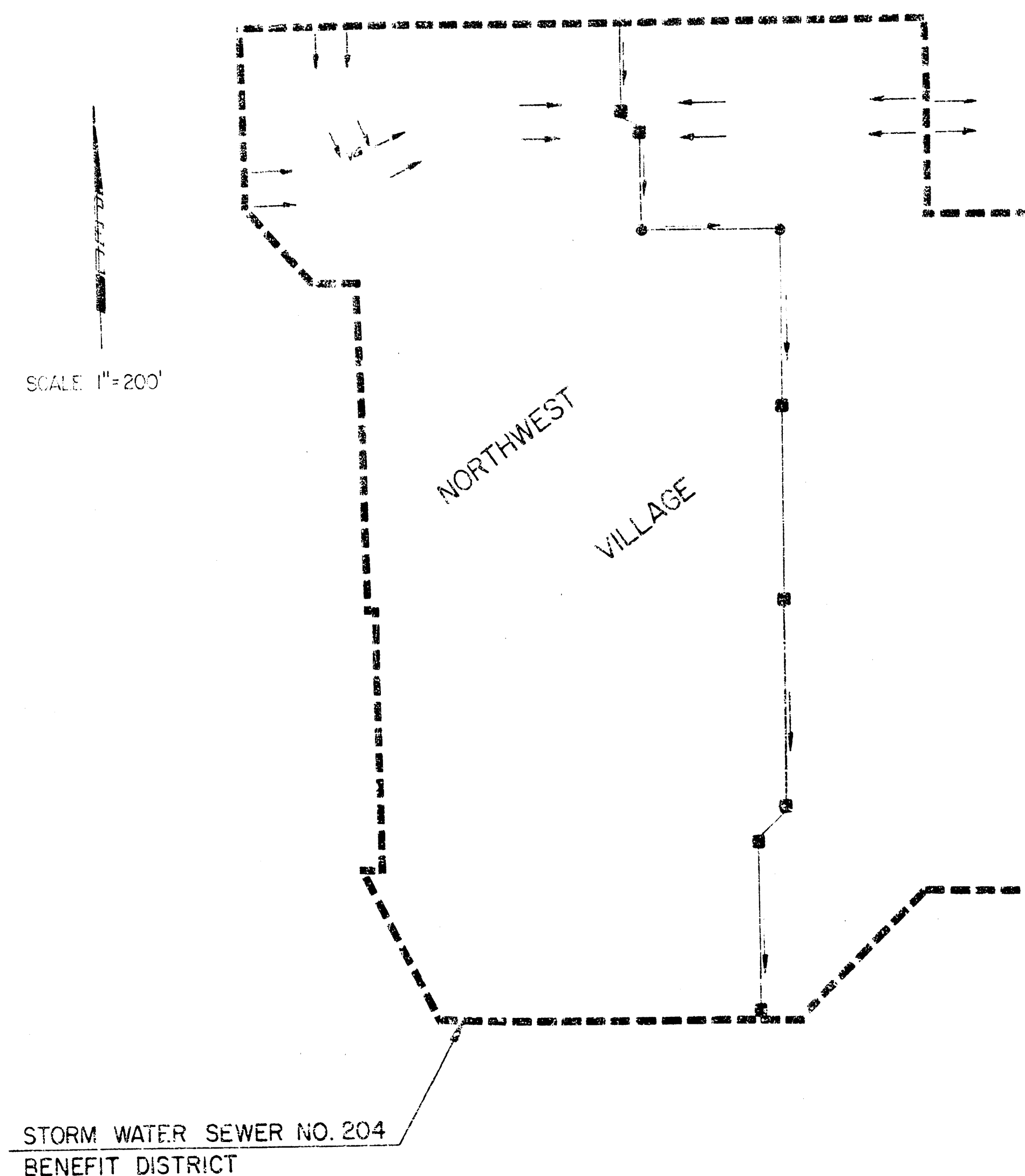
PROJECT NO. 468-76-245-81040-000-000-001

BENCH MARKS

- B.M. - C.O.W. standard disc located 31' south and 36' east of W 1/4 corner Sec. 9, T27S, R1W, 6th P.M. Elev. = 172.48
- B.M. - Chis "I" in SW corner headwall @ concrete box approx. 50' N/of SW corner Sec. 9, 27S/1W Elev. = 156.60
- B.M. - Chis "I" NE corner storm drain box N/side of 13th St approx. 12.40' ± east of SW corner Sec. 9, 27S/1W Elev. = 161.52
- B.M. - Chis "I" SW corner concrete box which lies approx. 840' ± E/of SW corner Sec. 9, 27S/1W (N. side 13th St.) Elev. = 162.48
- B.M. - NW corner 4'x4' concrete pad with C.O.W. M.H. behind curb on NW corner of intersection Tyler & 13th St. N. Elev. = 167.55

LEGEND

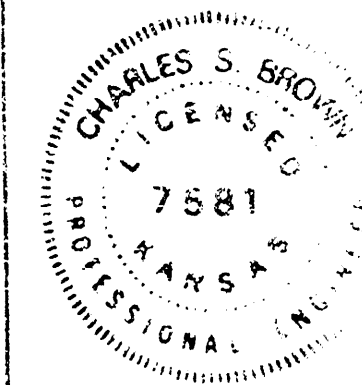
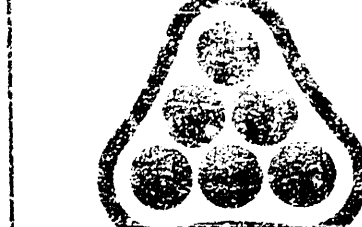
- BENEFIT DISTRICT BOUNDARY
- DRAINAGE FLOW DIRECTION
- PROPOSED INLET
- PROPOSED MANHOLE



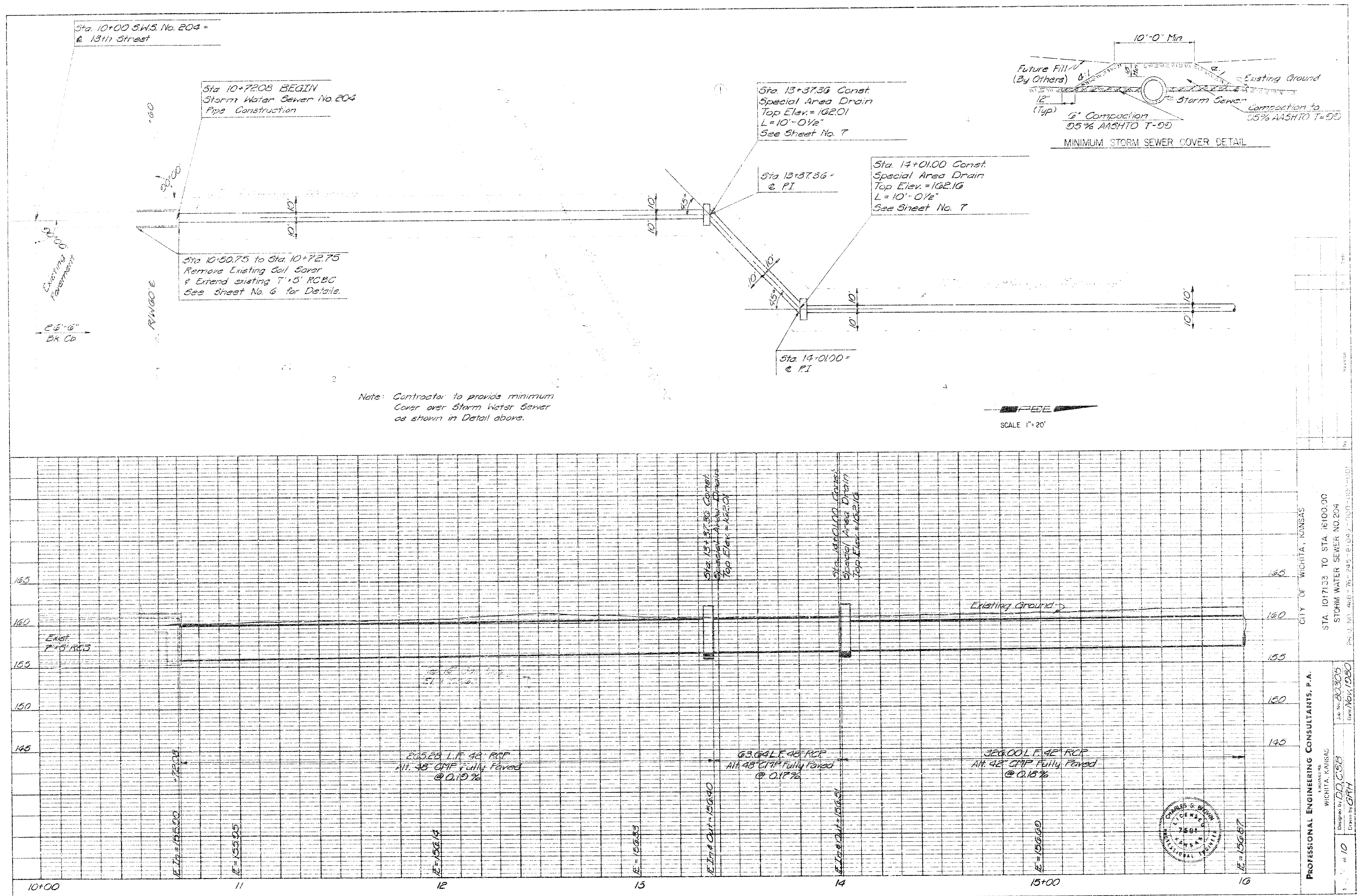
INDEX OF SHEETS

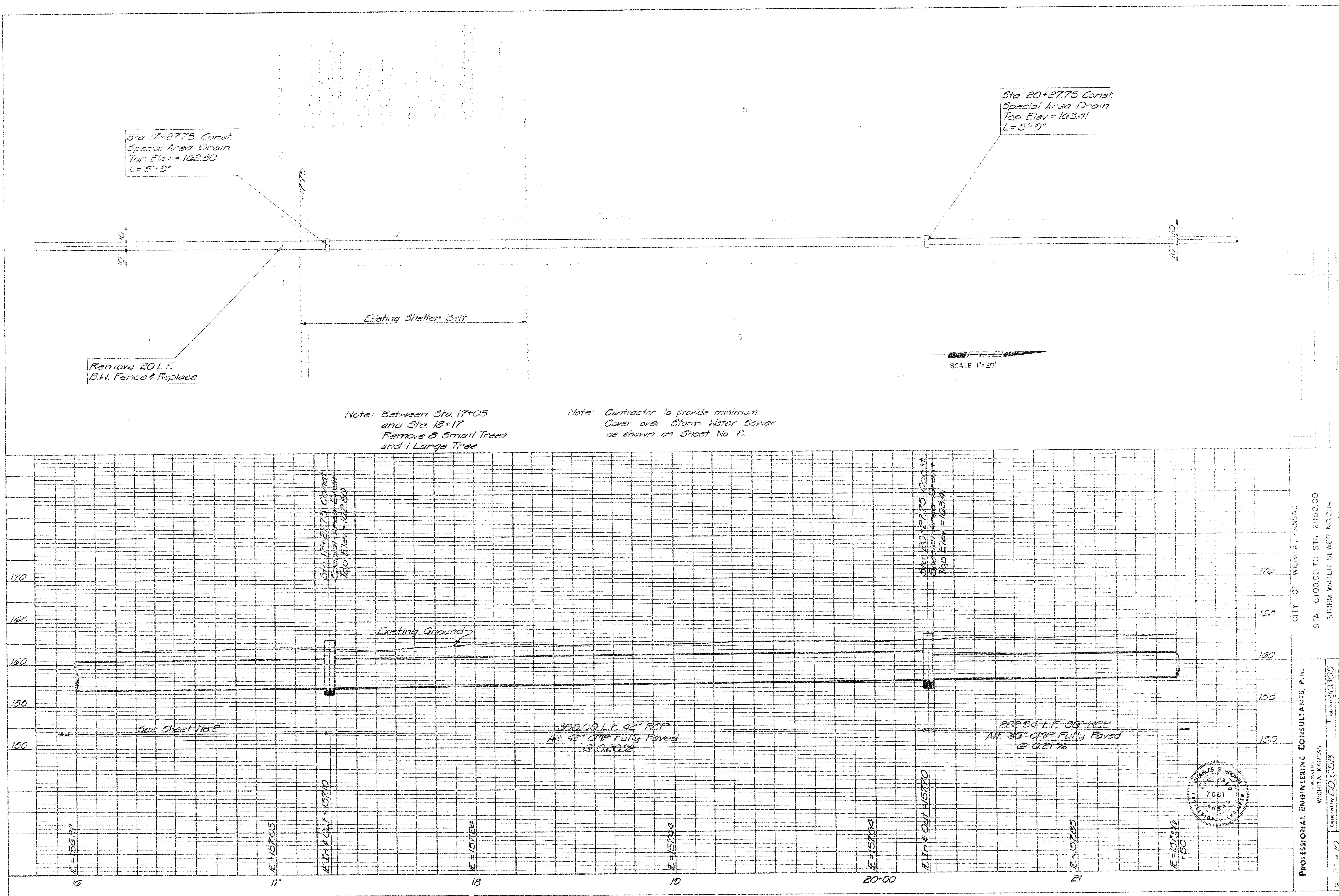
1. TITLE SHEET
- 2-5. PLAN & PROFILE SHEETS
6. R.C.B.C. EXTENSION
7. SPECIAL AREA DRAIN
8. DETAIL STANDARD TYPE 1A CURB INLET
9. DETAIL PRE-CAST TYPE 1A INLET
10. STANDARD DETAILS REINFORCED CONCRETE MANHOLES

NOVEMBER, 1980

 	CITY OF WICHITA, KANSAS	
	TITLE SHEET	
	STORM WATER SEWER NO. 204	
	PROJ. NO. 468-76-245-81040-000-000-001	
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS WICHITA, KANSAS		
Designed by <u>DD, CSE</u>	Job No. <u>80305</u>	Sht. <u>1</u>
Drawn by <u>GPH</u>	Date <u>Nov. 1980</u>	

FILMED FROM THE BEST
AVAILABLE COPY





Sta 17+27.75 Const.
Special Area Drain
Top Elev. = 162.80
L = 5'-0"

Remove 20 L.F.
E.W. Fence & Replace

Note: Between Sta. 17+05
and Sta. 18+17
Remove 8 Small Trees
and 1 Large Tree.

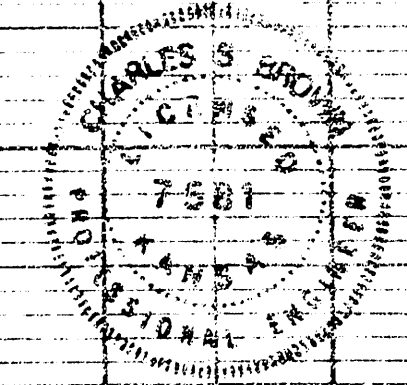
Note: Contractor to provide minimum
Cover over Storm Water Sewer
as shown on Sheet No. 7.

Sta 20+27.75 Const.
Special Area Drain
Top Elev. = 163.41
L = 5'-0"

SCALE 1" = 20'

CITY OF WICHITA, KANSAS
STA 16+00.00 TO STA 21+50.00
STORM WATER SEWER NO. 204

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS
Designed by **DD 204**
Drawn by **GRH**
Date: Nov. 1980
Sheet No. 204005
10 of 10



SCALE 1"=20'

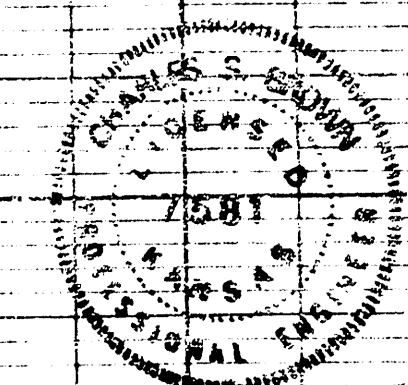
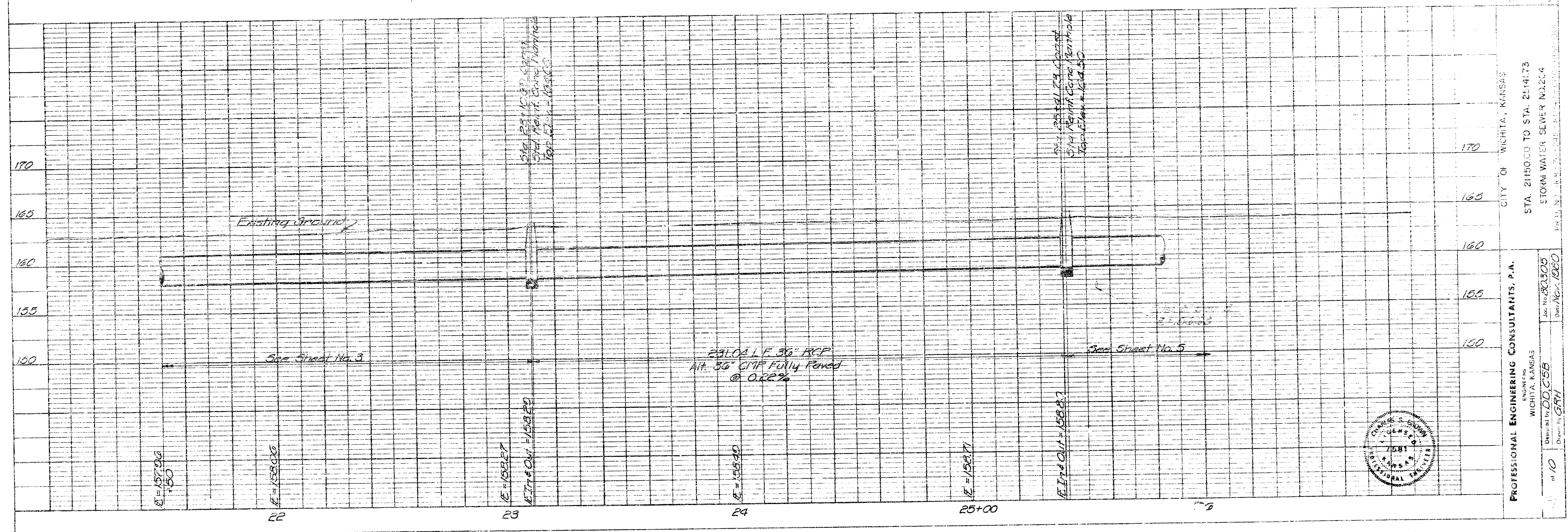
Sta. 23+10.69 Const.
Std. Reinf. Conc. Manhole
w/wide Flange MH Ring
Top Elev. = 164.00
H = 5'-0", Stock = 0.62'
L = 5'-6", W = 5'-6"

Sta. 23+10.69
@ P.I.

Const. MH on
12 Extended

Sta. 25+41.73
@ P.I.

Sta. 25+41.73 Const.
Std. Reinf. Conc. Manhole
w/wide Flange MH Ring
Top Elev. = 164.50
H = 5'-0", Stock = 0.61'
L = 5'-6", W = 5'-6"



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Drawn by: D.C.S.B.

Checked by: G.R.H.

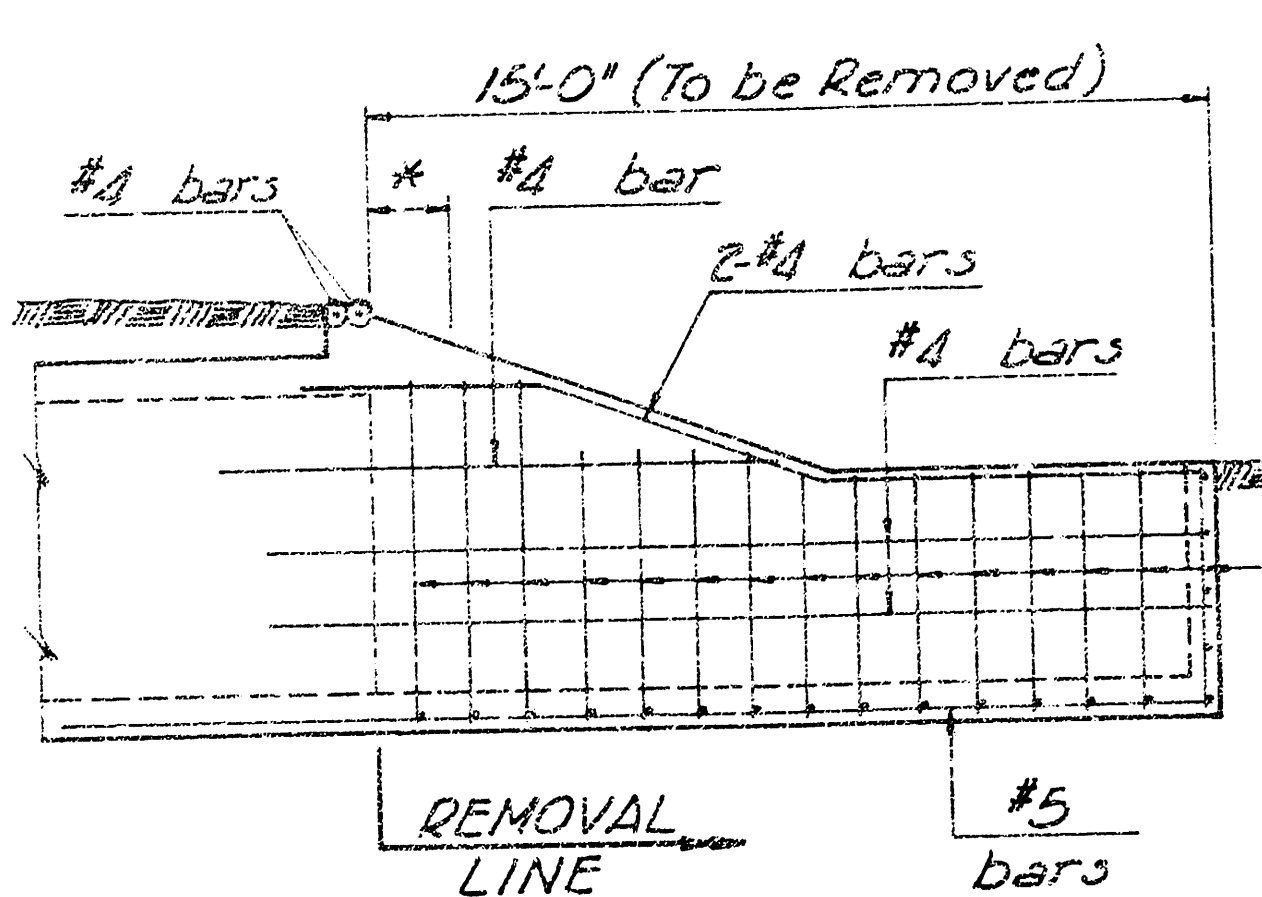
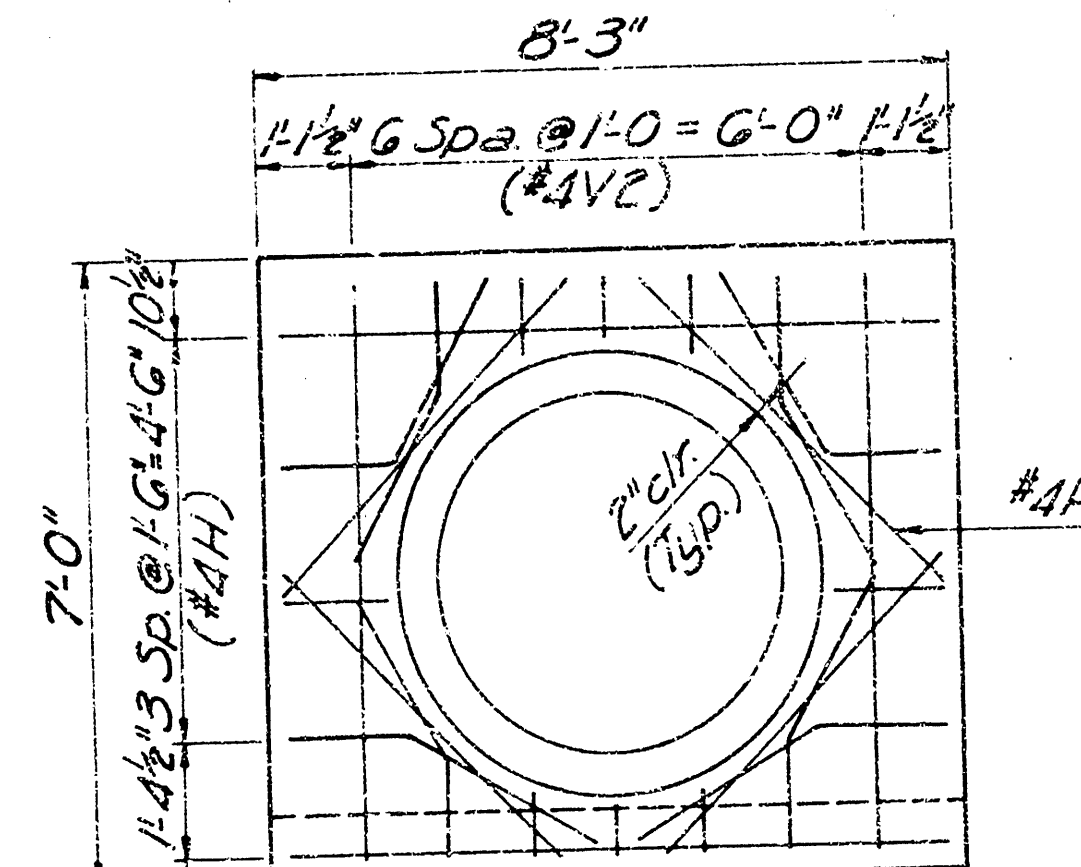
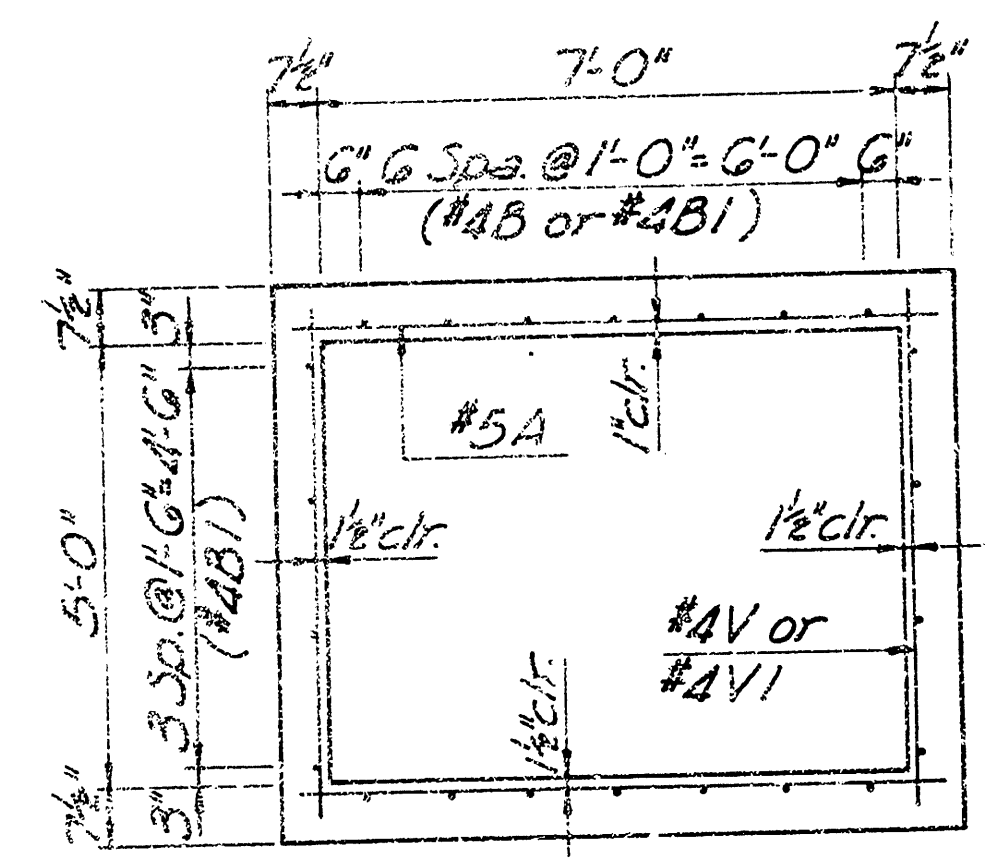
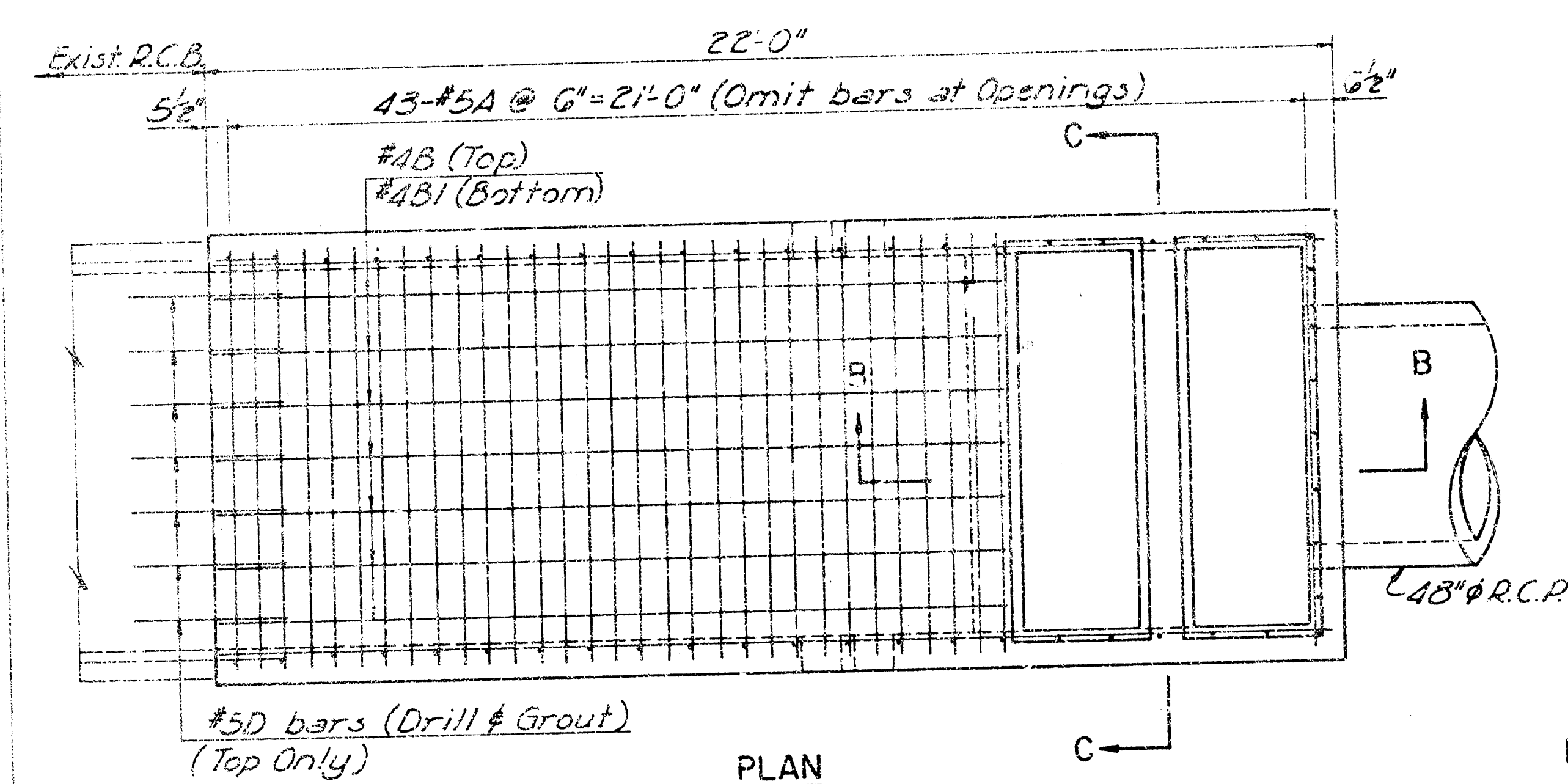
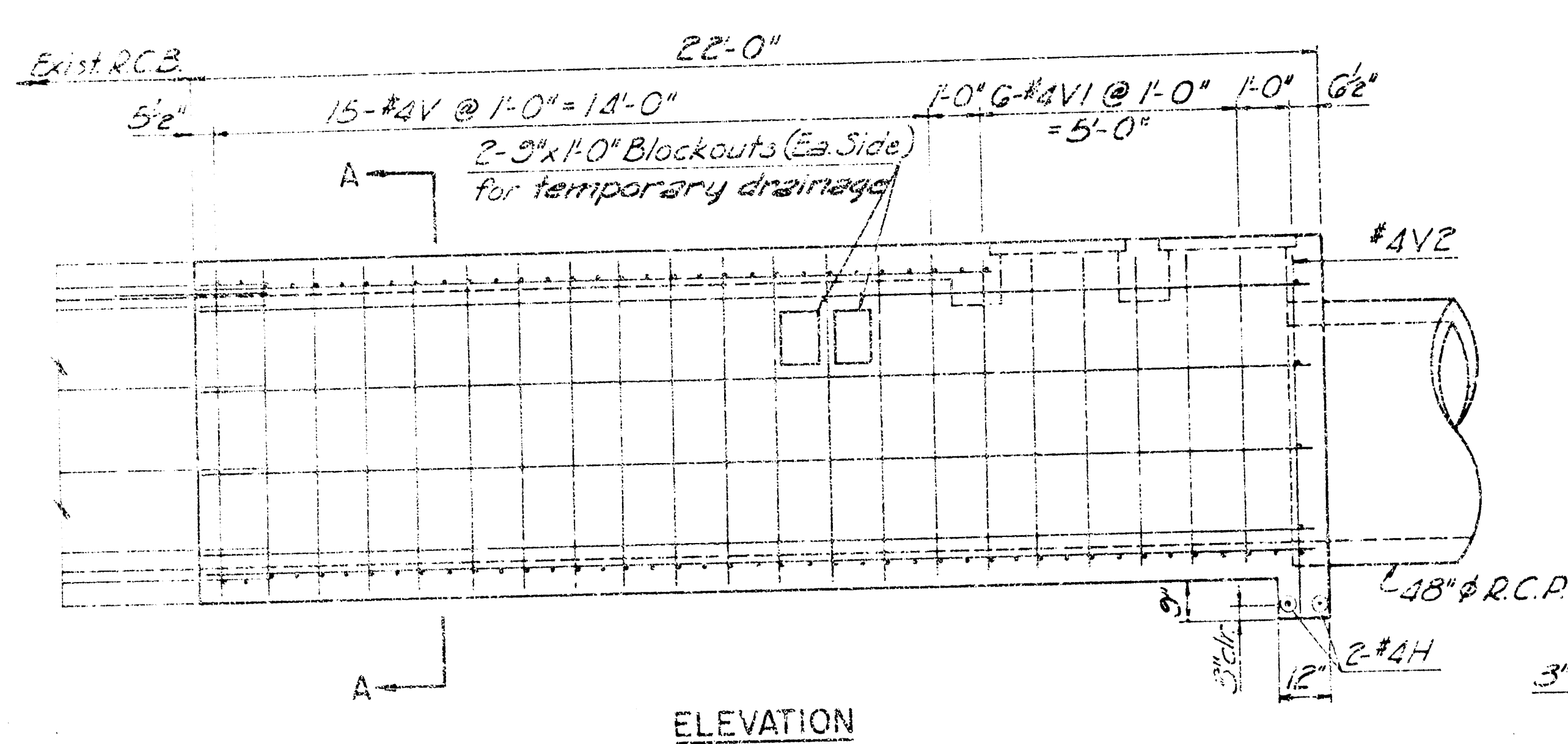
Date: Nov. 1980

CITY OF WICHITA, KANSAS

STA. 21+50.00 TO STA. 25+41.73

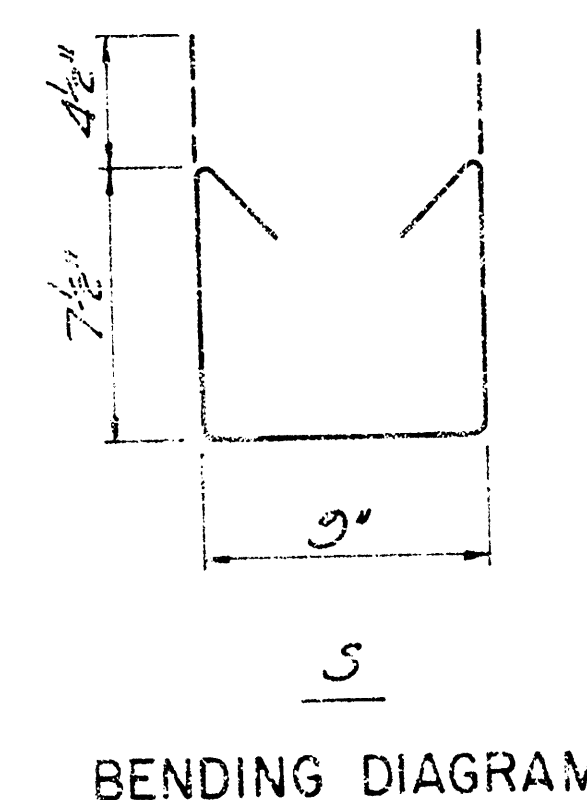
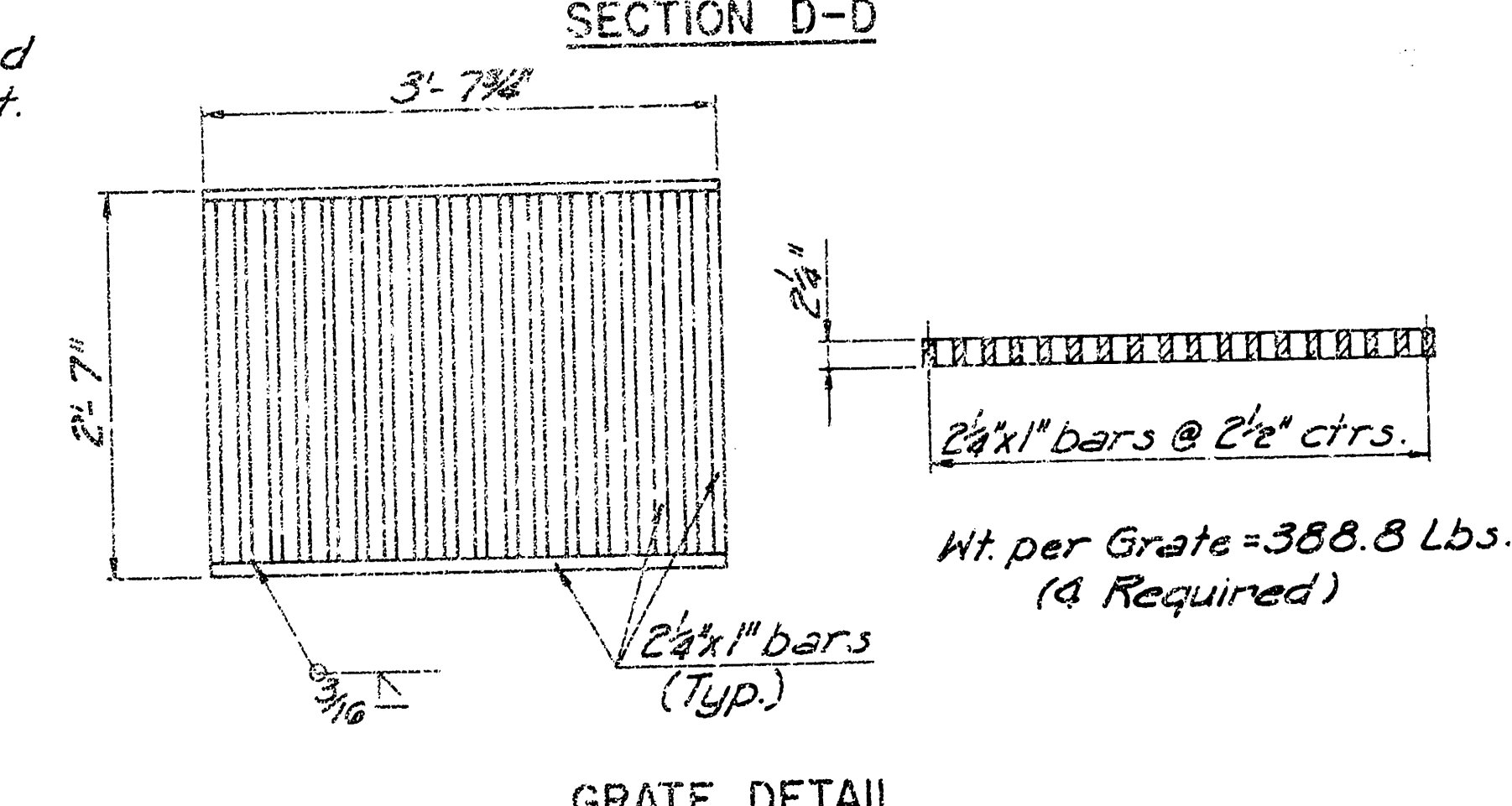
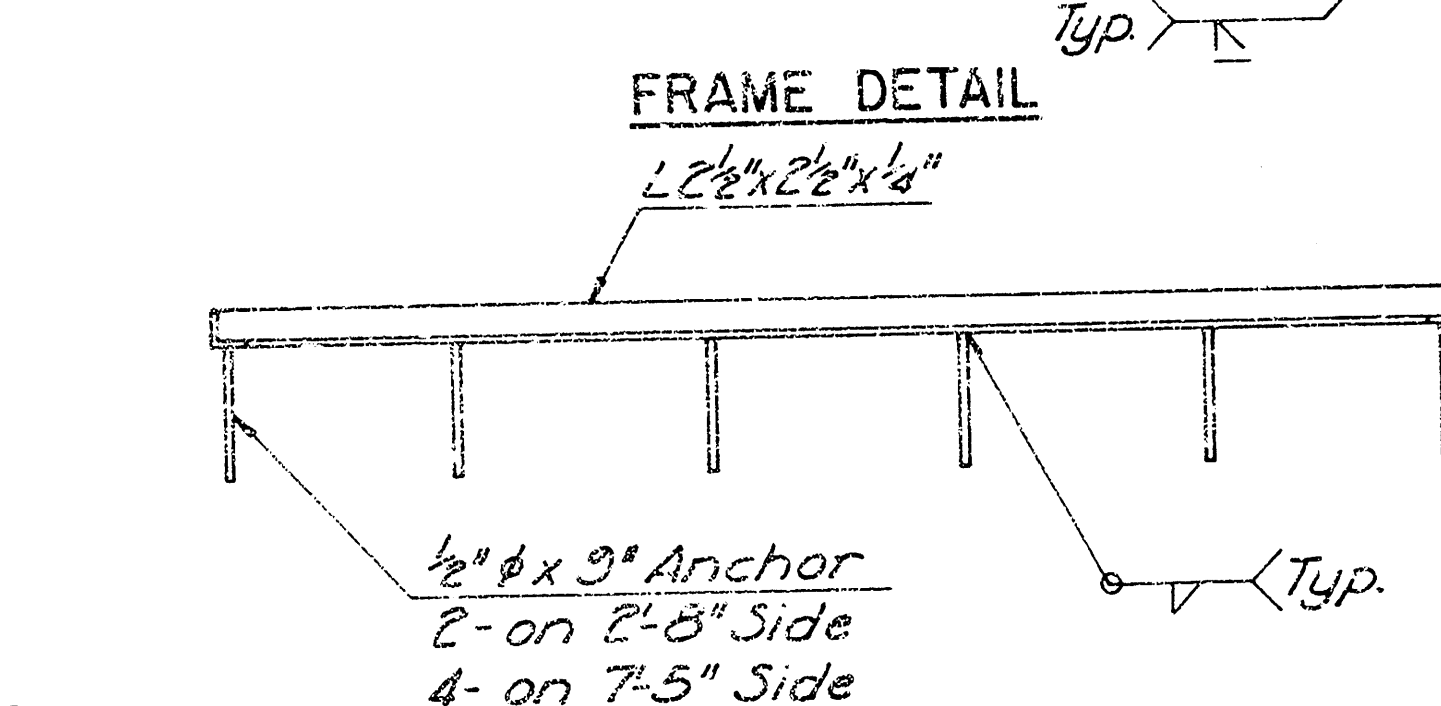
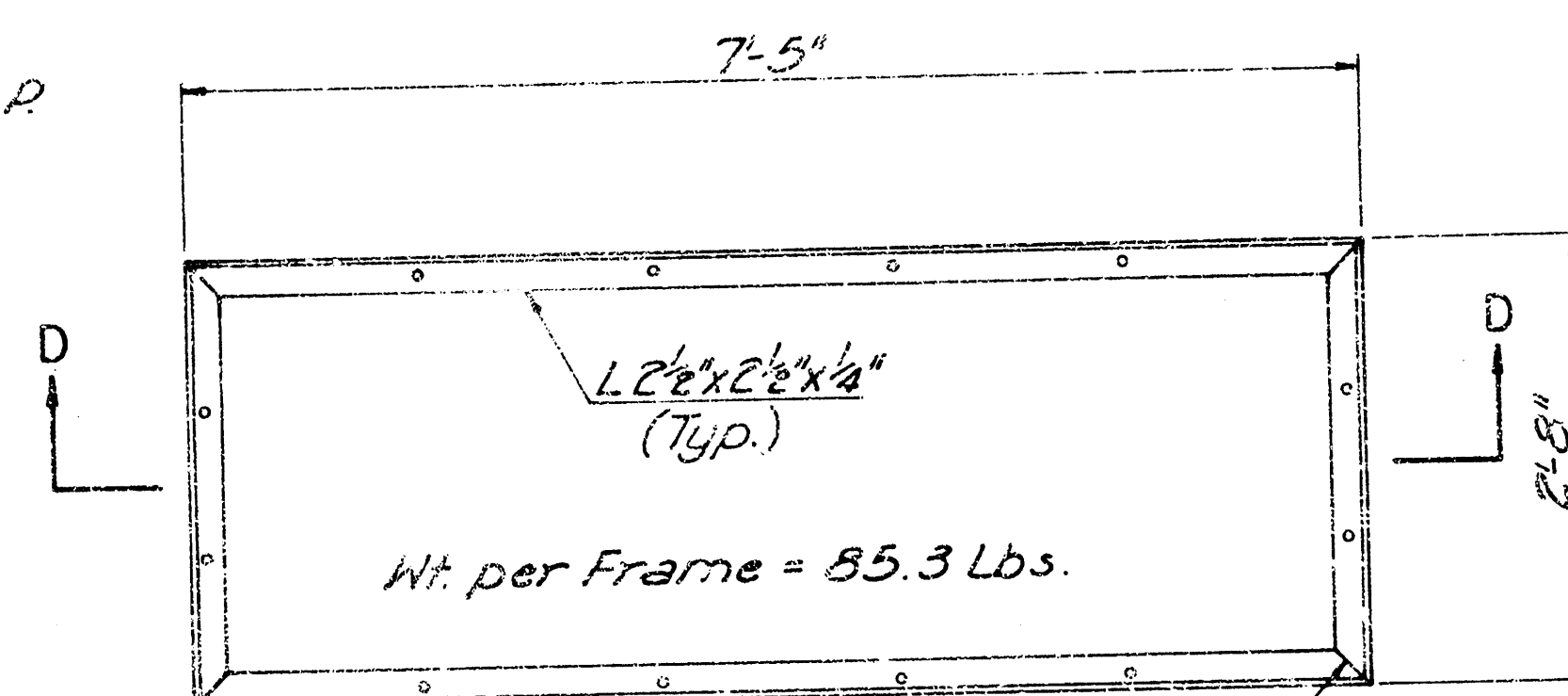
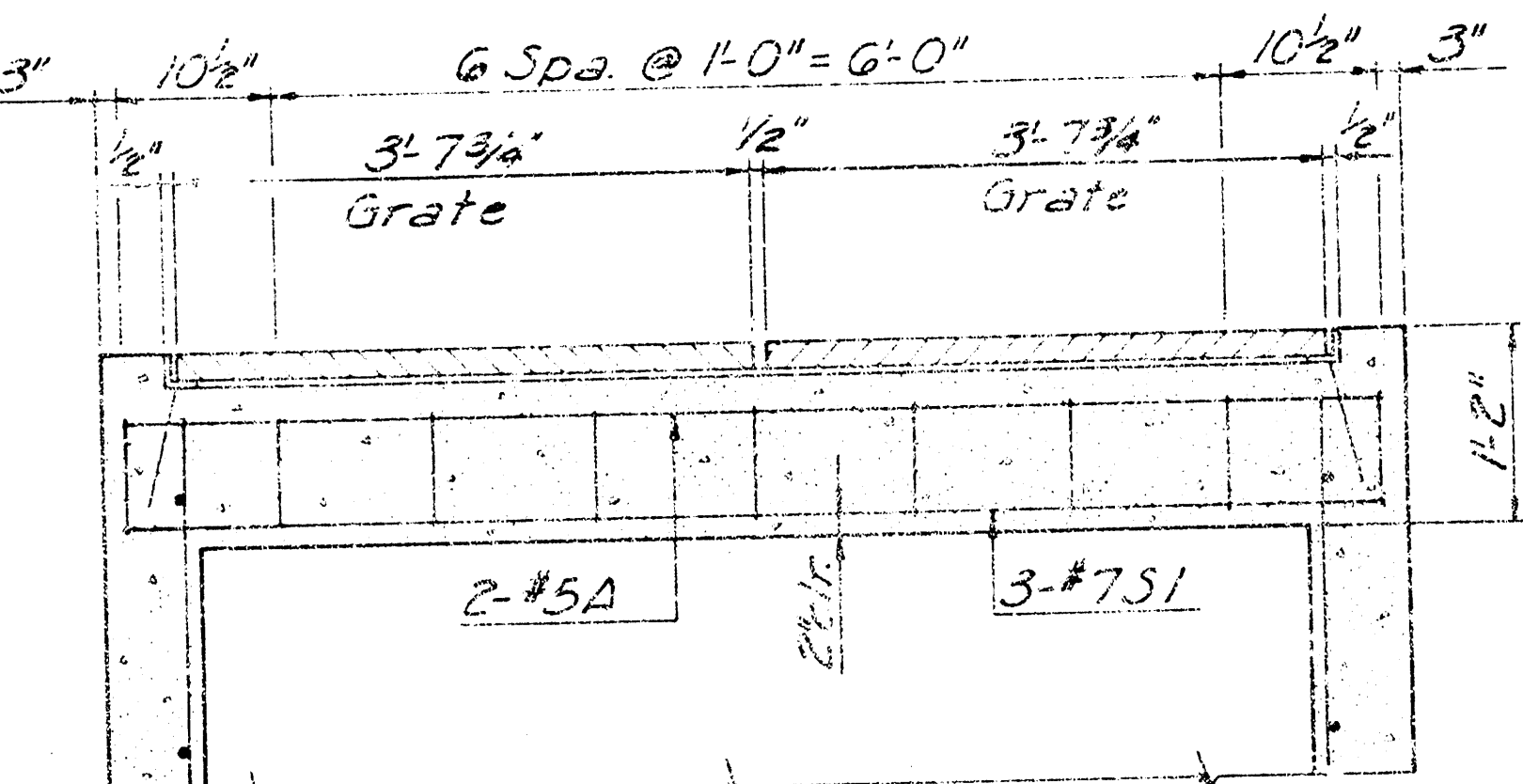
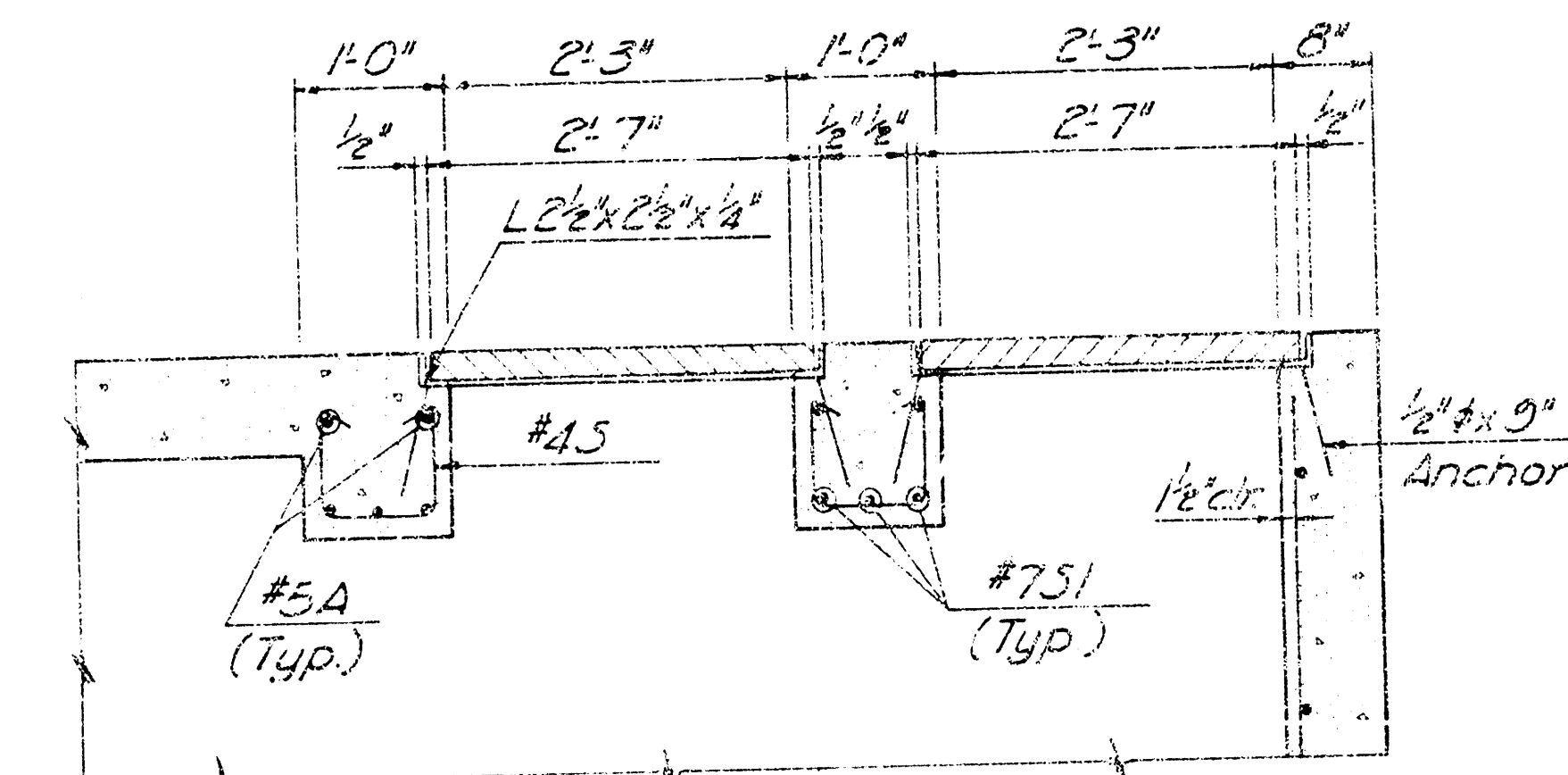
STORM WATER SEWER IN 22.04

Sheet No. 10 of 10



Whenever possible, bend reinforcing bars around pipe opening. Where it is not possible to bend bars around pipe opening, bars are to be field cut.

*1'-6" (Min.) of horizontal steel to remain.



REINFORCING STEEL					
STRAIGHT BARS			BENT BARS		
Mark	No.	Size Length	Mark	No.	Size Length
S1	7	#7 7'-11"			
A	78	#5 7'-11"			
D	7	#5 3'-0"			
B	7	#4 15'-8"	S	18	#4 2'-0"
B1	15	#4 21'-9"			
H	6	#4 7'-11"			
P	4	#4 5'-0"			
V	30	#4 6'-0"			
V1	12	#4 5'-9"			
V2	7	#4 6'-8"			

SUMMARY OF QUANTITIES		
Class A(AE) Concrete	18.0	Cu yds
Reinforcing Steel	1330	Lbs.
Structural Steel	1726	Lbs.

For Information Only
NOTE: No deduction in concrete quantity made for pipe opening or blockouts.

CITY OF WICHITA, KANSAS

R.C.B.C. EXTENSION

STORM WATER SEWER NO.204

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PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

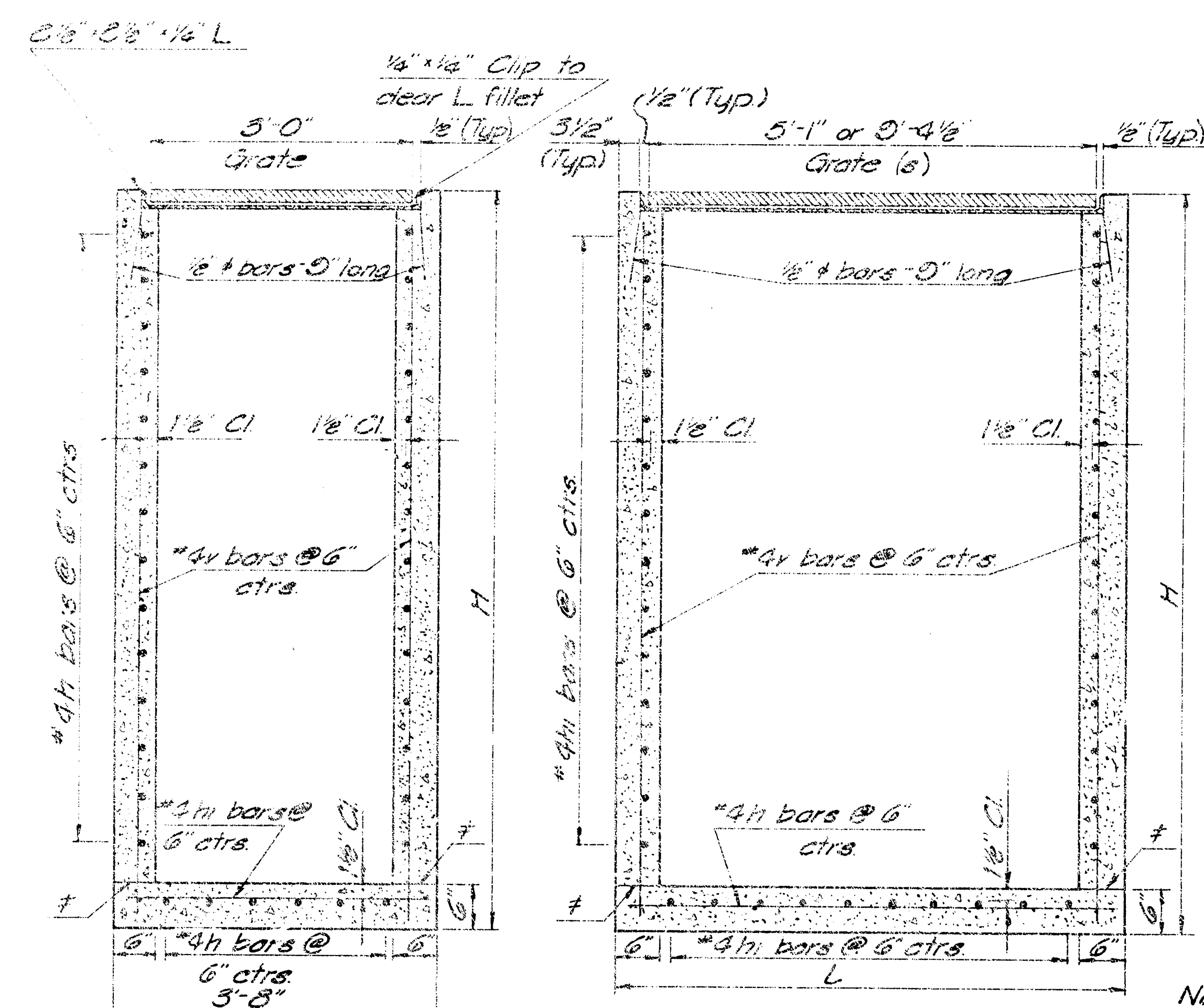
WICHITA, KANSAS

DESIGNED BY: A.G.L. & V.J.K.

DATE: Nov 1980

Sheet 6 of 10

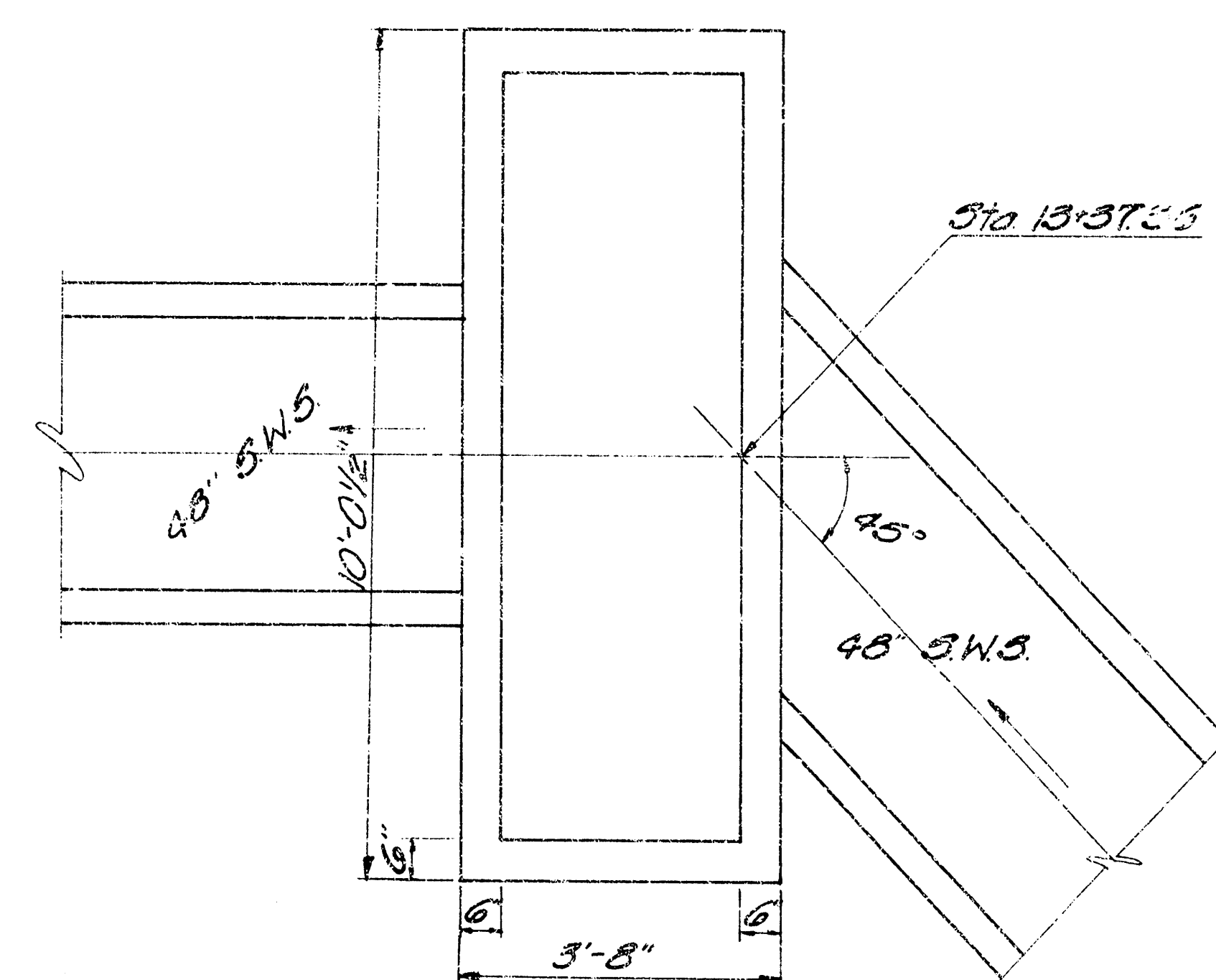
† Roughened Construction Joint.



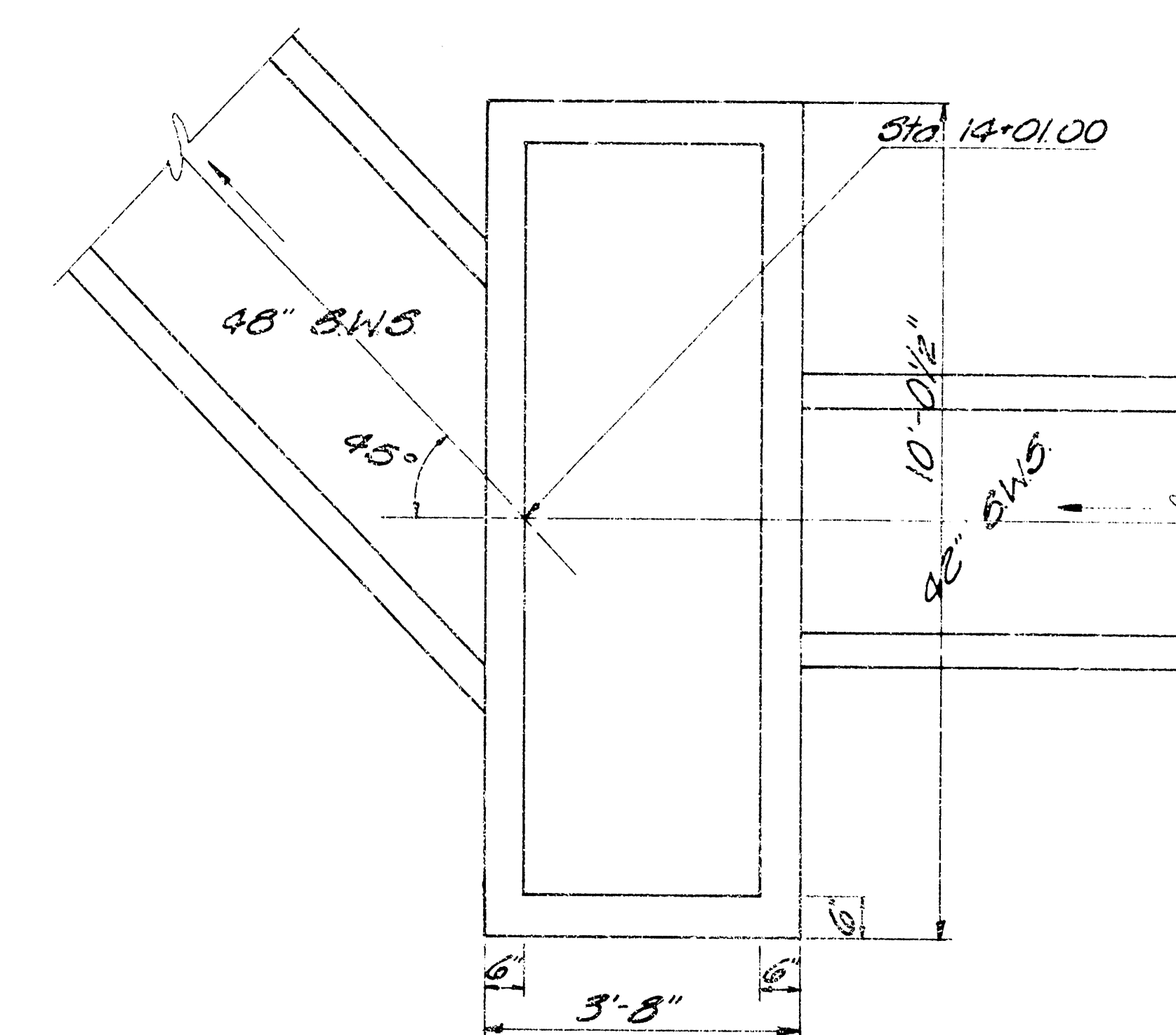
SECTION C-C

SECTION D-D

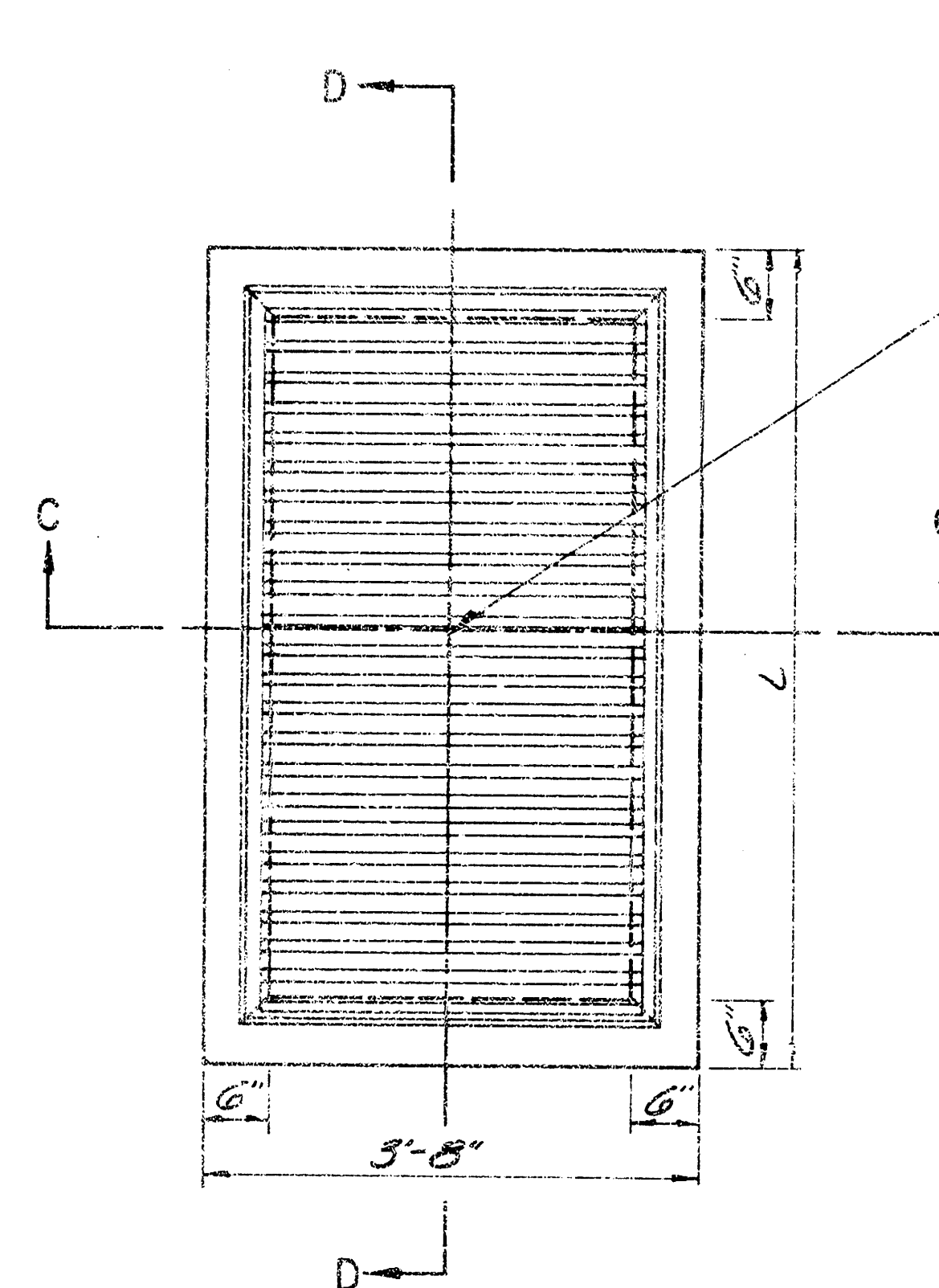
Note: H to be determined
from Plan-Profile Sheets



SPECIAL AREA DRAIN LOCATION DIAGRAM
Sta. 13+37.36

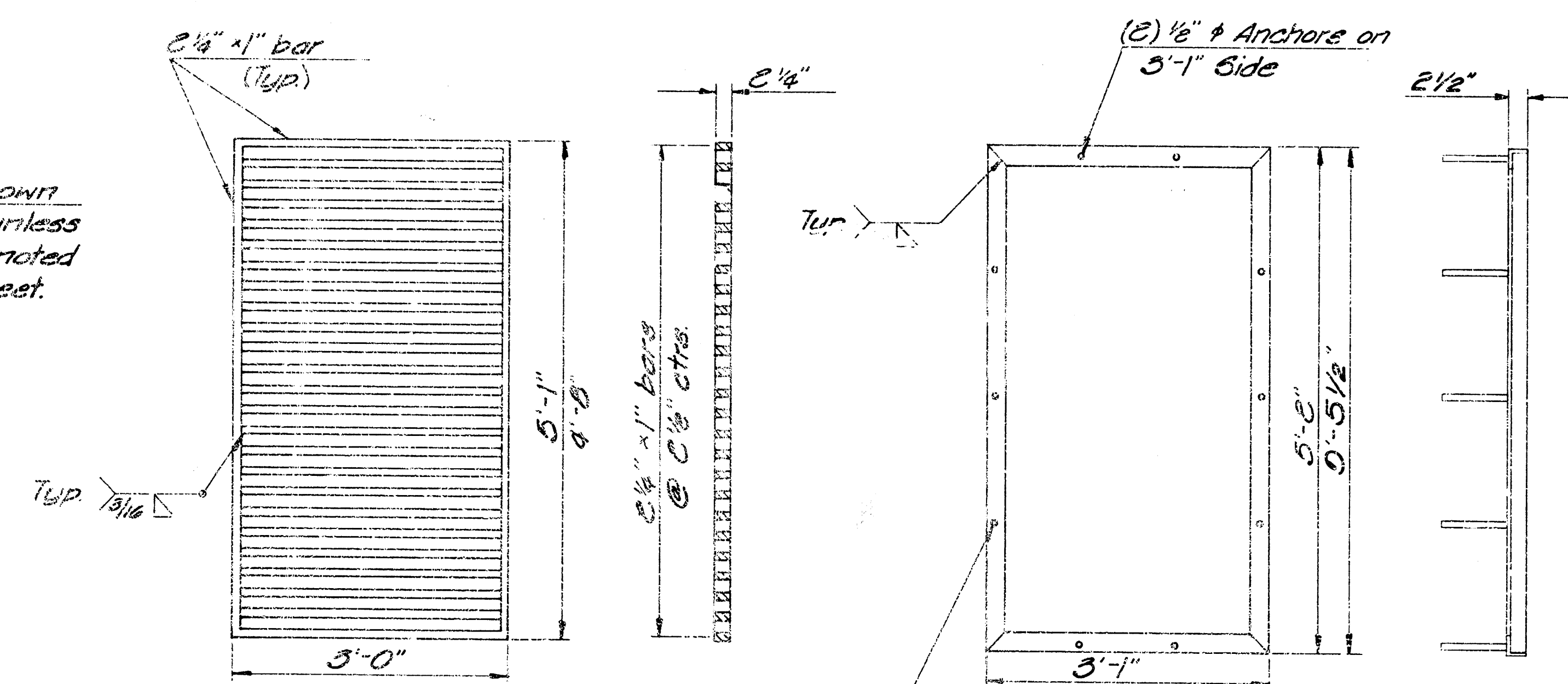


SPECIAL AREA DRAIN LOCATION DIAGRAM
3/21/40/00



PLAN

Plan shown is for L=5'-0"
Install two (2) 3'-1" x 4'-8"
Grates where L=10'-0 1/2"



GRATE DETAIL

Wt. 620 lbs. (3'-0" x 5'-1") (2 Required)
Wt. 536 lbs. (3'-0" x 4'-8") (4 Required)

FRAME DETAIL

WT. 60 lbs. (3'-1" x 5'-8") (2 Required)
WT. 110 lbs. (3'-1" x 9'-5 1/2") (2 Required)

GENERAL NOTES

Six-sock paving mix concrete shall be used throughout. Bevel all exposed edges with a 3/4" triangular moulding or an edging tool.

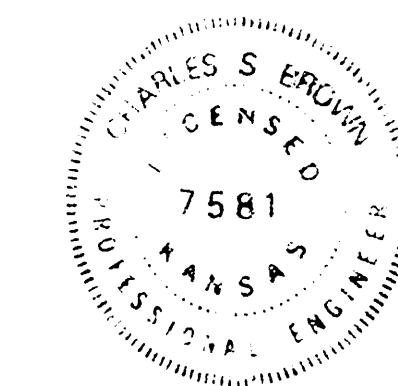
Whenever possible, bend reinforcing bars around pipe opening. Where it is not possible to bend bars around pipe openings bars are to be field cut. No deduction has been made for pipe opening or grate unit depression.

d) When so ordered by the Engineer, the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions.

Unless otherwise noted, all dimensions relative to reinforcement are to centerline of bar.
All reinforcing steel shall conform to A.A.S.H.T.O Specification M-31 Grade 40 or 60.

Concrete used for shaping floor of inlet shall be unreinforced 3-sack sand mix. No addition in concrete quantities shall be made for shaping floor of inlets.

All structural steel shall conform to A.S.T.M. A36 Structural steel and shall be shop primed with one coat of red lead paint & receive two (2) coats of aluminum paint applied in the field.



CITY OF WICHITA, KANSAS

SPECIAL AREA DRAIN

STORM WATER SEWER NO.204

PROJ. NO. 468-76-245-81040-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Classified by **DD CSE**

$$C(\mathbf{m}, \mathbf{p}) = \frac{1}{2} \left(\mathbf{m}^T \mathbf{p} + \mathbf{p}^T \mathbf{m} \right)$$

53 Nov. 1980 80305