

IMPROVING OF 47th ST. SOUTH

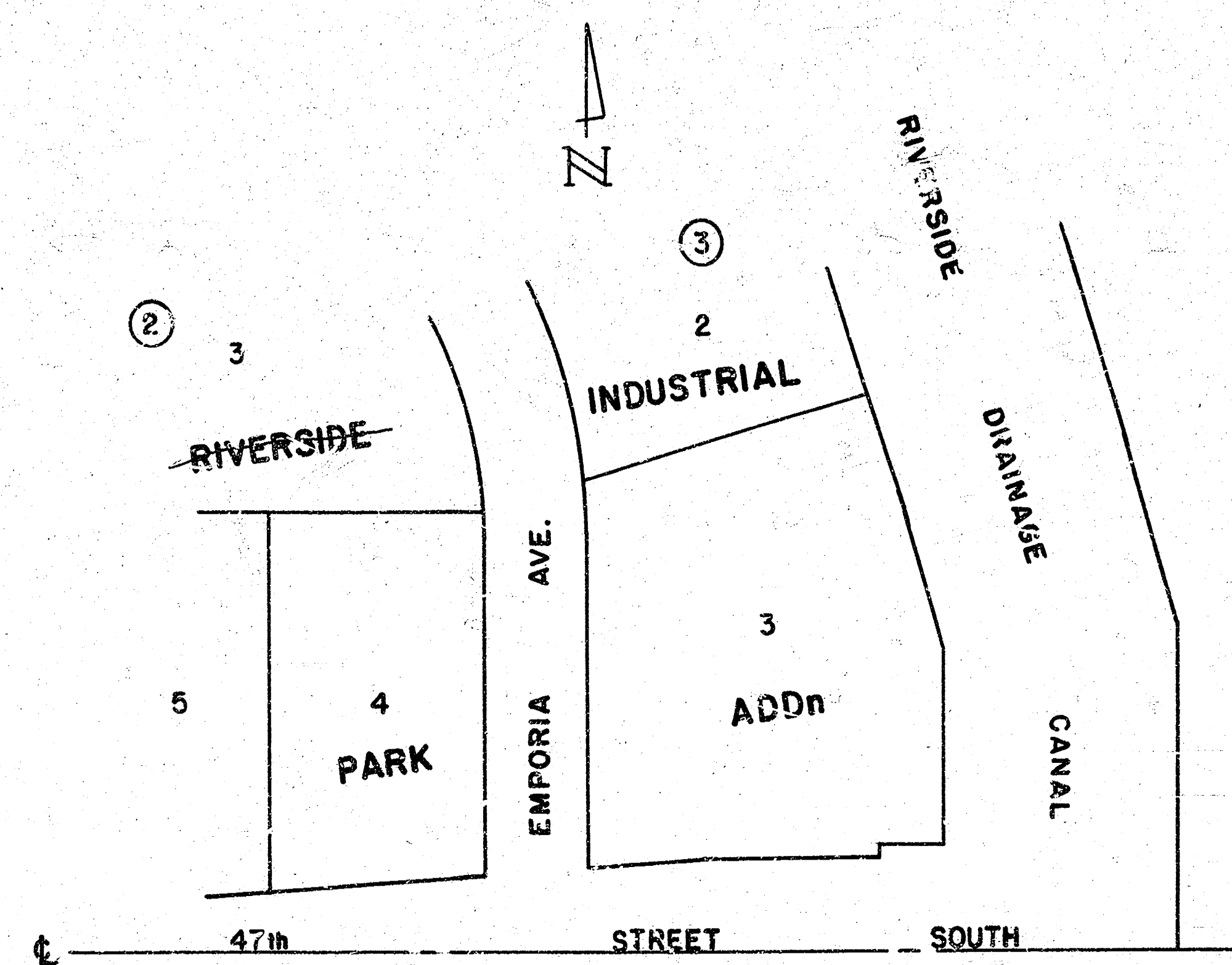
E. L. EMPORIA AVE. TO E. L. LOT 3, BLK 3,
SOUTH BROADWAY INDUSTRIAL PARK

CITY OF WICHITA, KANSAS

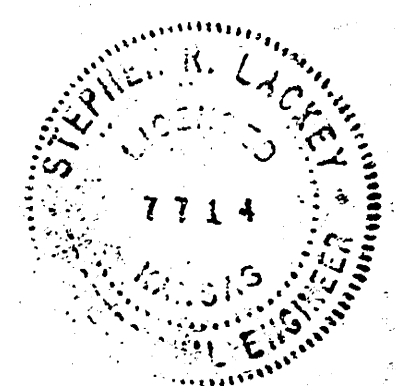
R.W. BRUGGEMAN DIRECTOR OF ENGINEERING / CITY ENGINEER

DATE:

PROJ. NO. 472 76 245 80758 000 000 001

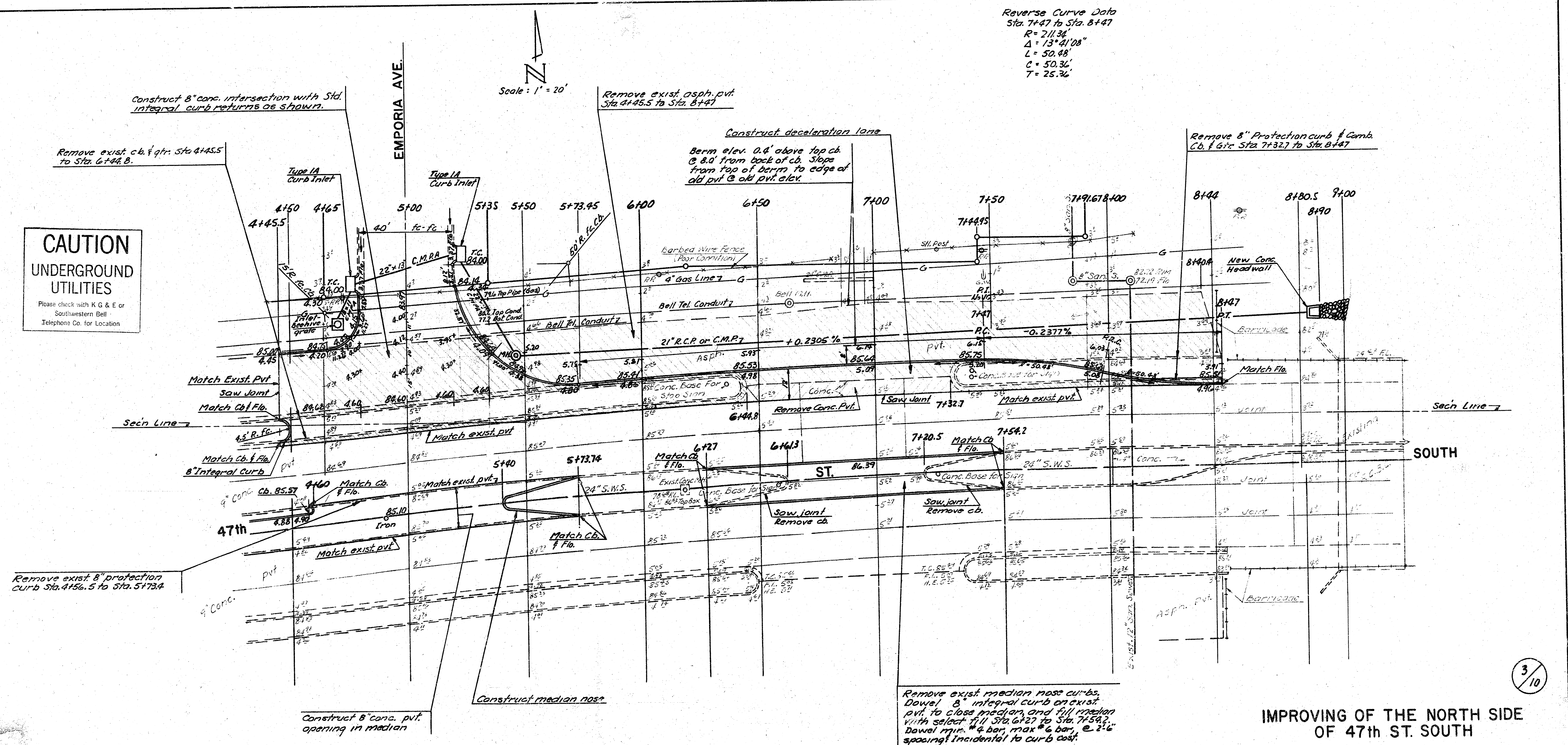


LOCATION MAP
SCALE: 1" = 100'



$$\frac{2}{10}$$

CAUTION
UNDERGROUND
UTILITIES
 Please check with K & E or
 Southwestern Bell
 Telephone Co. for Location

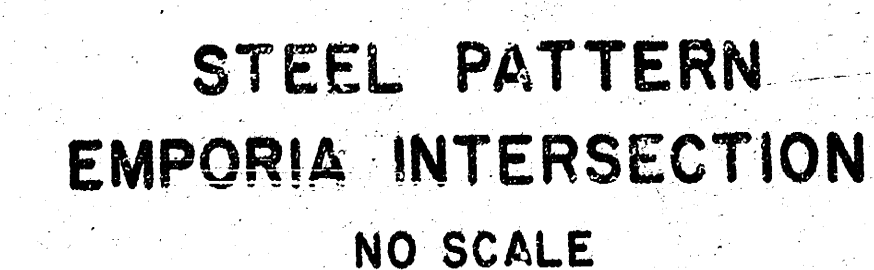
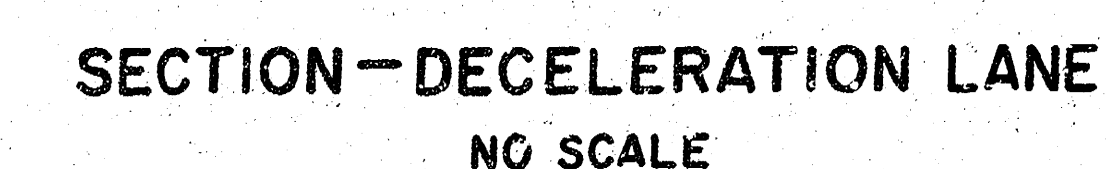
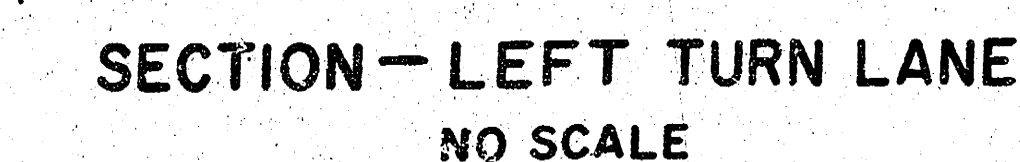
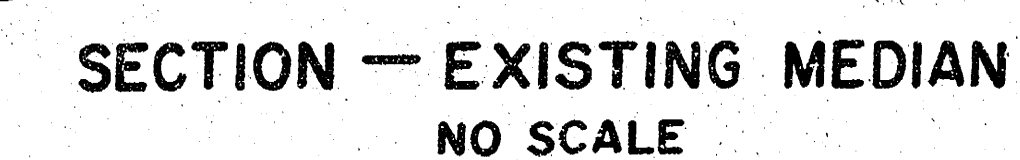
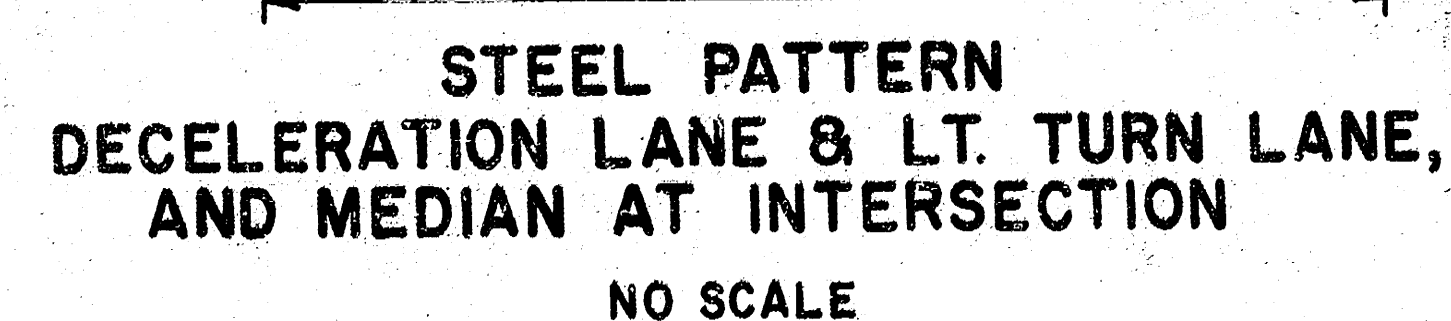
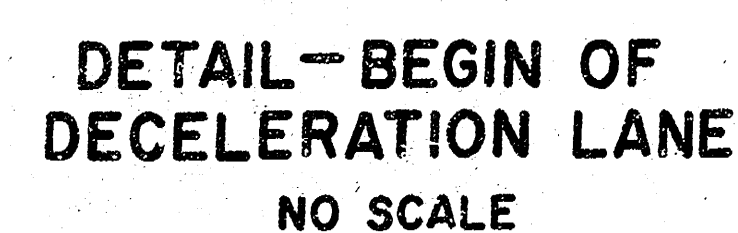
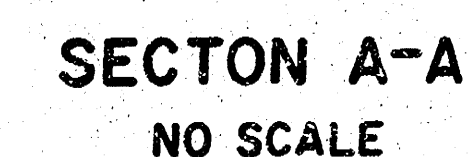
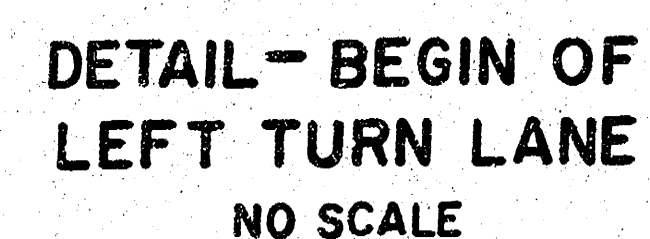
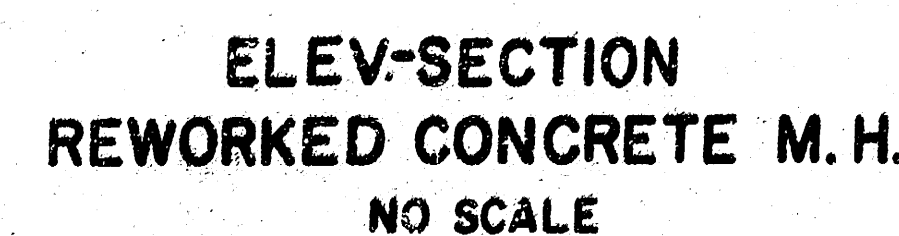
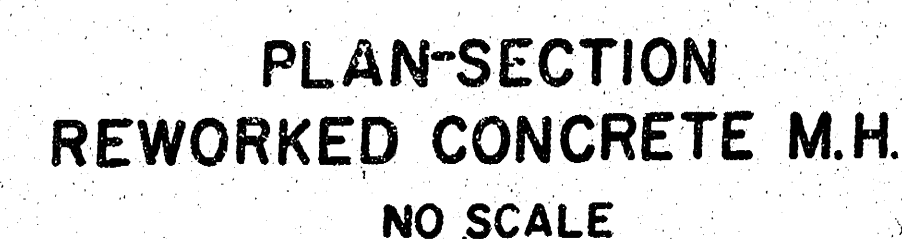


IMPROVING OF THE NORTH SIDE
 OF 47th ST. SOUTH

E. L. EMPORIA AVE. TO E. L. LOT 3, BLK 3,
 SOUTH BROADWAY INDUSTRIAL PARK

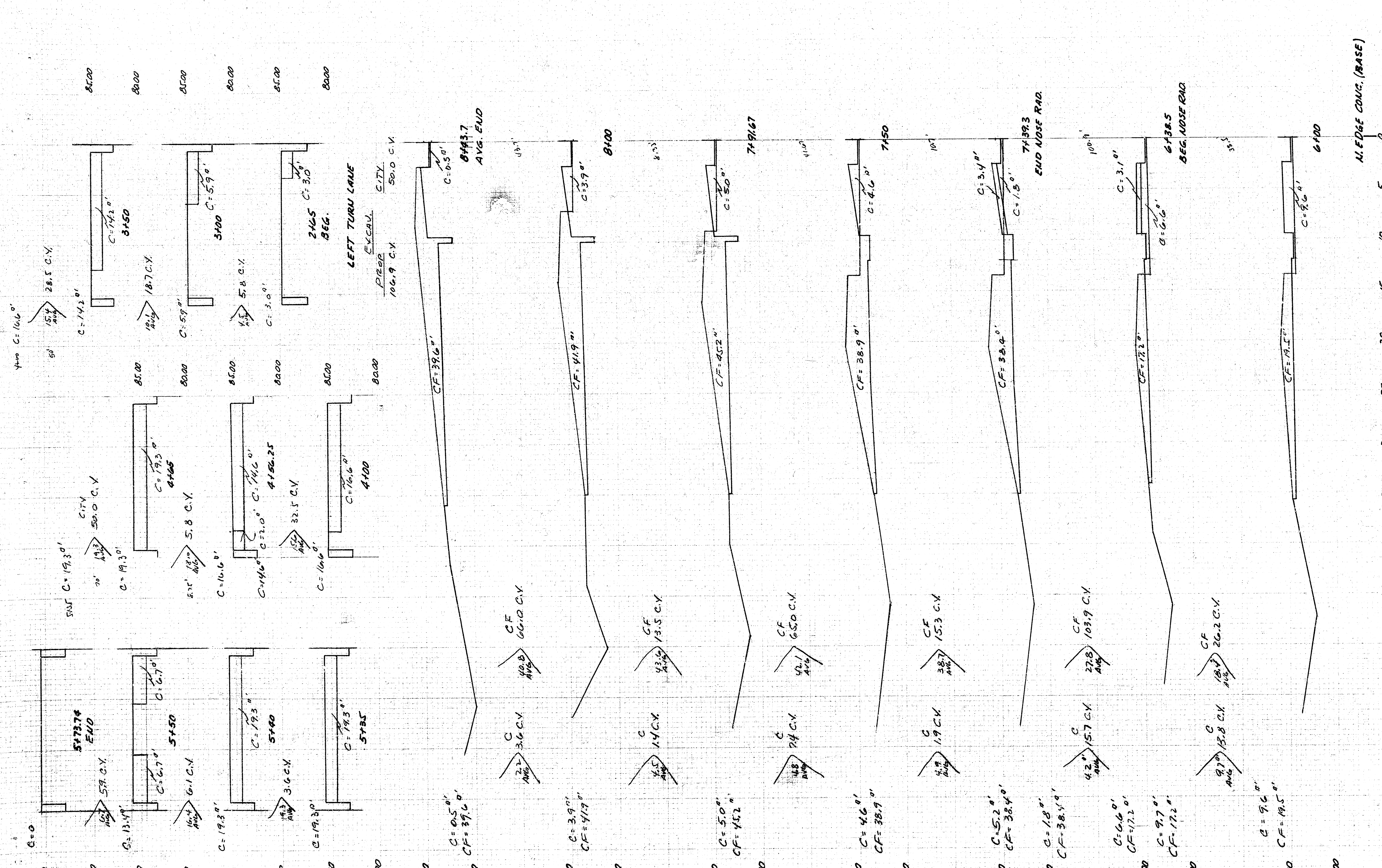
PROJ. NO. 47276 245 80758 000 000 001

Survey	
Plan	
Exc	
Checked	



PROJ. NO. 472 76 245 80758 000 000 001

4/16



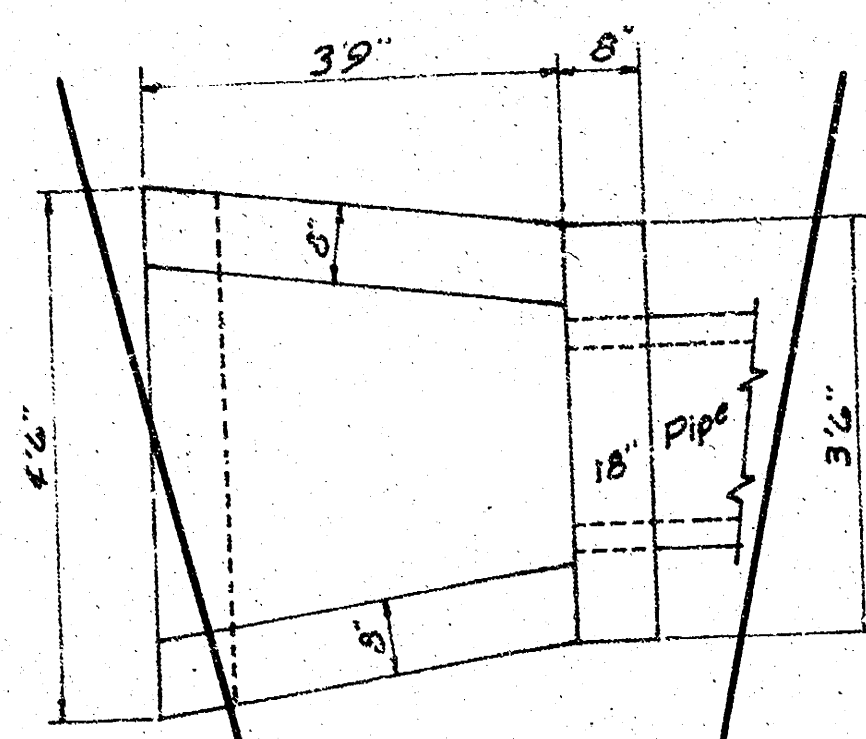
IMPROVING OF THE NORTH SIDE
OF 47th ST. SOUTH

E.L. EMPORIA AVE. TO E.L. LOT 3, BLK 3,
SOUTH BROADWAY INDUSTRIAL PARK

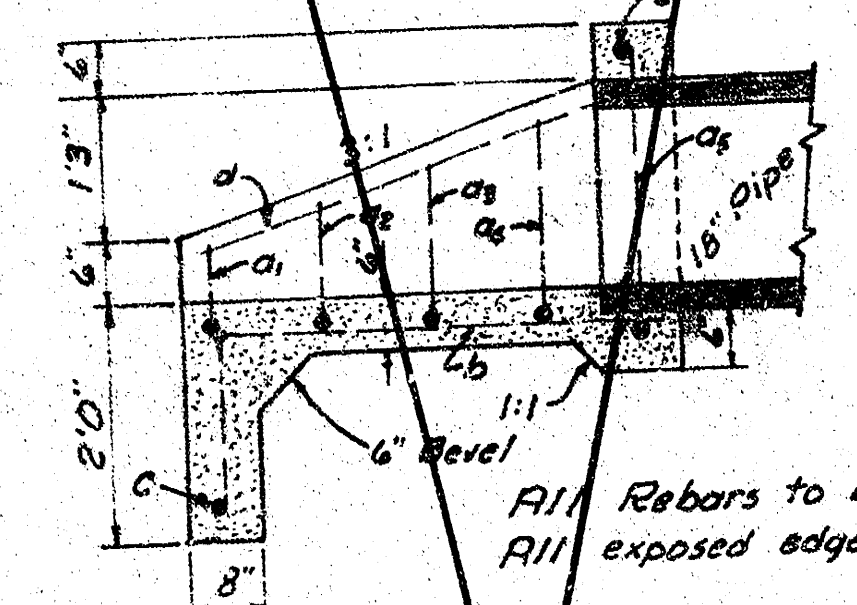
PROJ. NO. 472 76 245 80758 000 000 001

EARTHWORK THIS SHEET

EXCAVATION	CITY	PROP.	COMPACT FILL	CITY
150.7	50.0 C.Y.	289.9 C.Y.	0	0



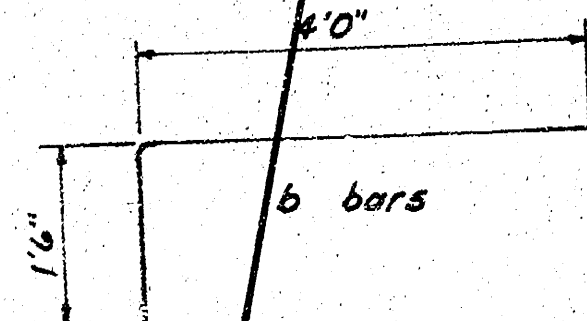
PLAN
Scale: 1/2" = 10"



SECTION
Scale: 1/2" = 10"

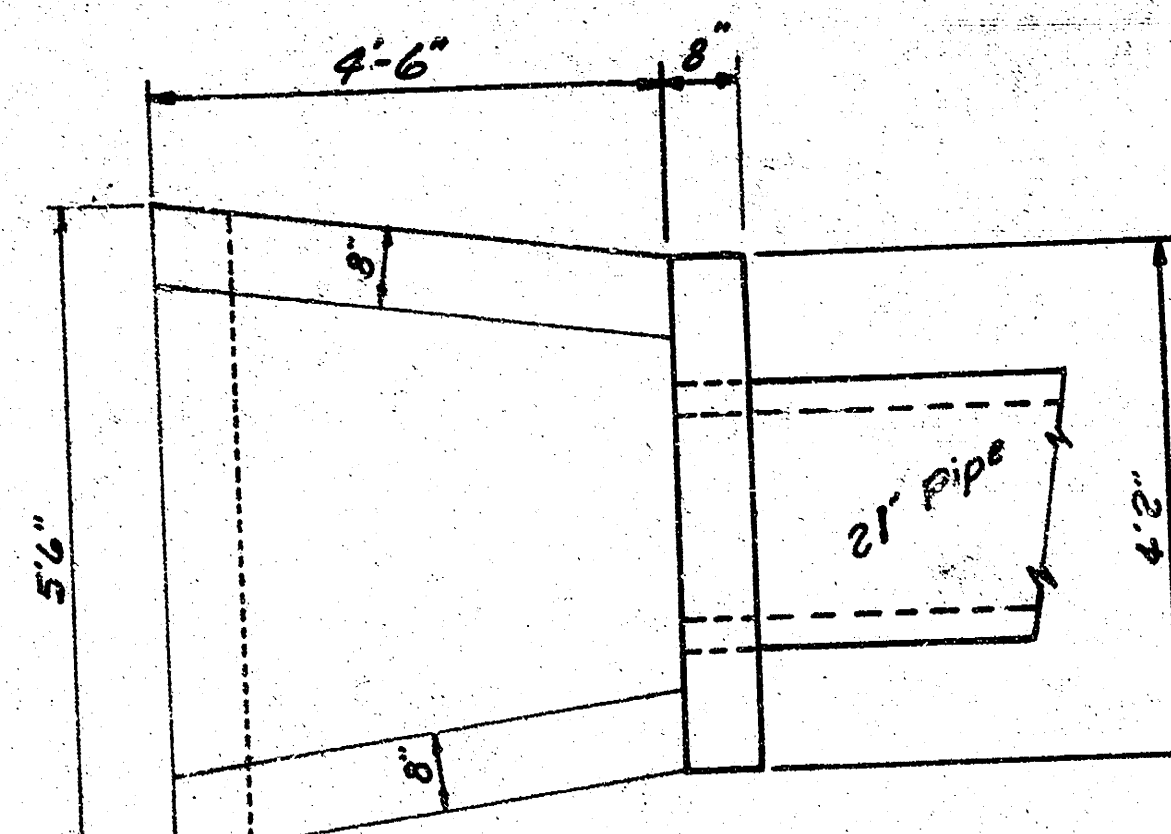
All Rebars to be #4.
All exposed edges to have 1/8" bevel.

a bars	
a ₁	2'8"
a ₂	3'5"
a ₃	5'8"
a ₄	2'11"
a ₅	2'8"

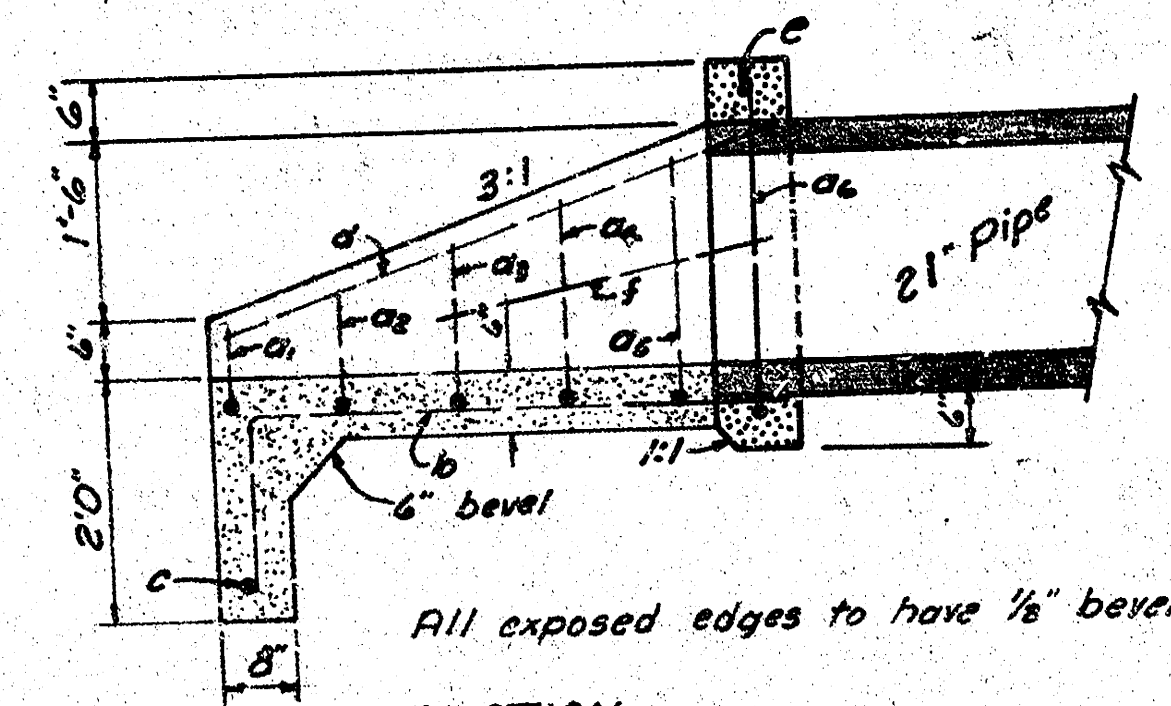


BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	5'0"		3.34
a ₂	1	5'3"		3.51
a ₃	1	5'8"		3.70
a ₄	1	6'1"		4.06
a ₅	5	5'6"		18.37
b	1	4'0"		2.47
c	1	4'0"		5.34
d	1	3'2"		2.12
Total Rebar, lbs				47.99
Concrete, CY				0.91

HEADWALL FOR 18" PIPE



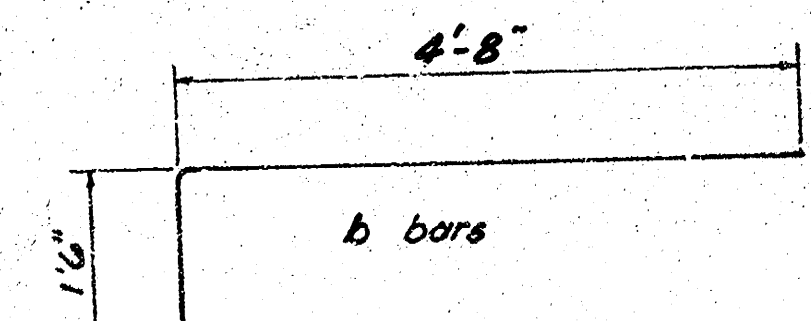
PLAN
Scale: 1/2" = 10"



SECTION
Scale: 1/2" = 10"

All exposed edges to have 1/8" bevel.

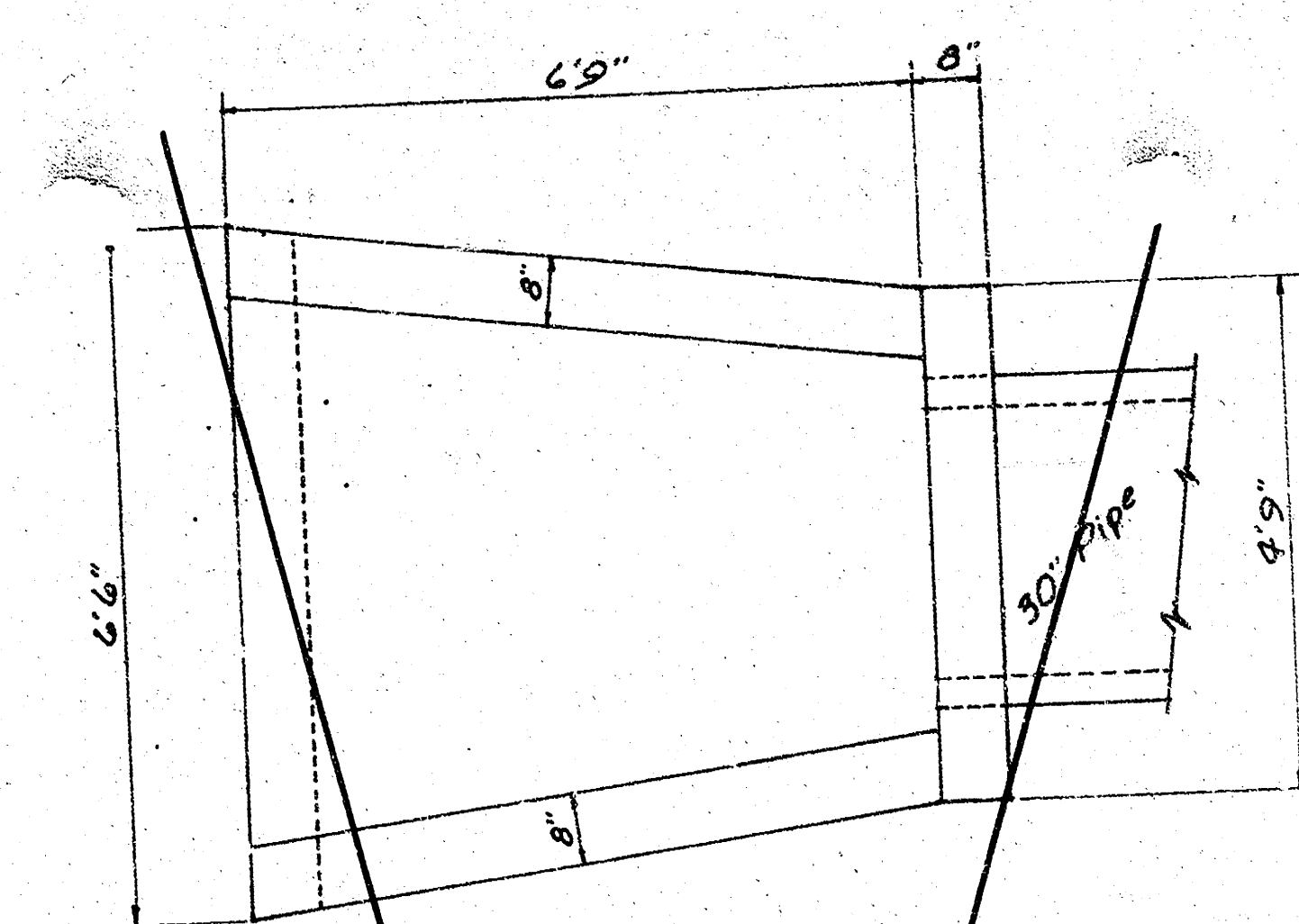
a bars	
a ₁	4'9"
a ₂	4'4"
a ₃	4'3"
a ₄	4'0"
a ₅	3'9"
a ₆	3'5"



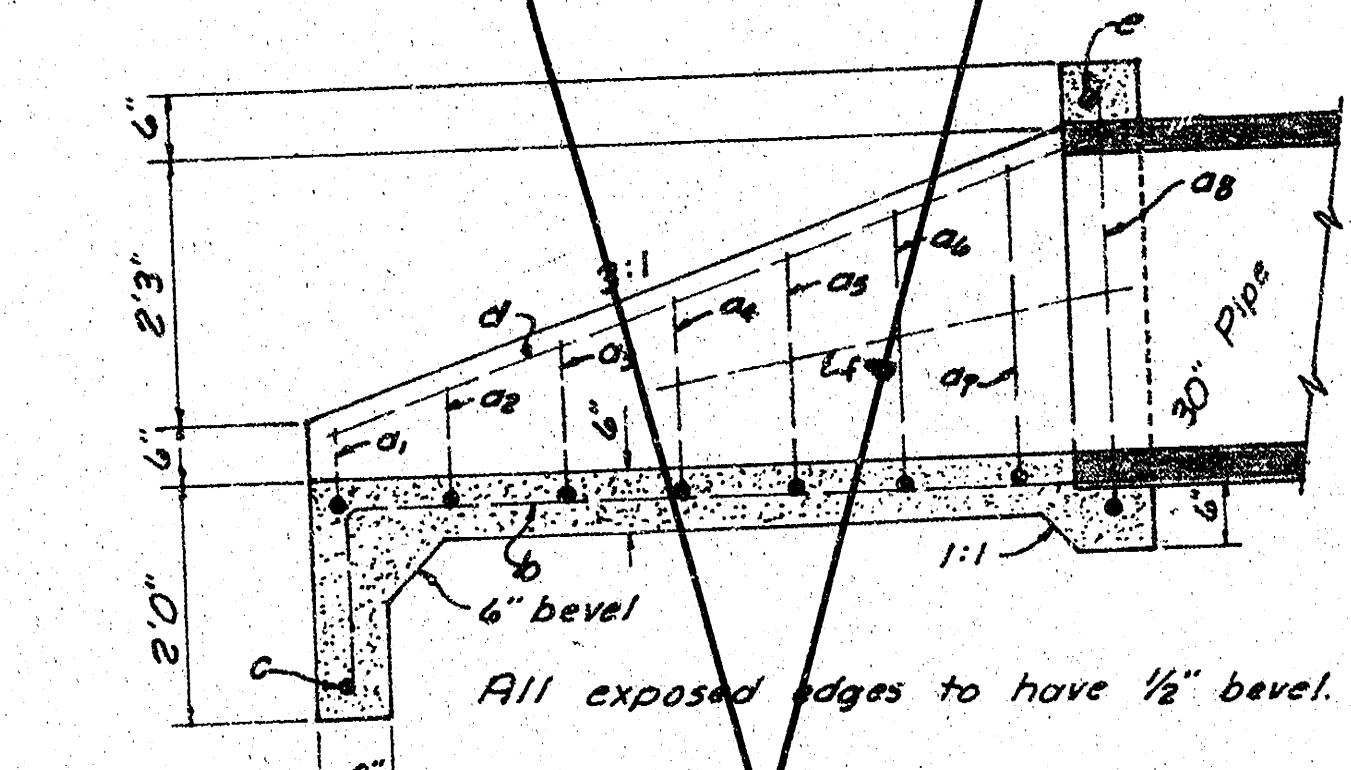
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	6'-1"		4.06
a ₂	1	6'-6"		4.34
a ₃	1	6'-11"		4.62
a ₄	1	7'-4"		4.90
a ₅	1	7'-9"		5.18
a ₆	1	8'-11"		5.96
a ₇	6	6'-2"		24.73
b	1	5'-0"		3.37
c	2	5'-3"		7.01
d	1	3'-10"		2.56
e	2	3'-0"		4.01
Total Rebar, lbs				70.74
Concrete, CY				1.25

All Rebars to be #4

HEADWALL FOR 21" PIPE



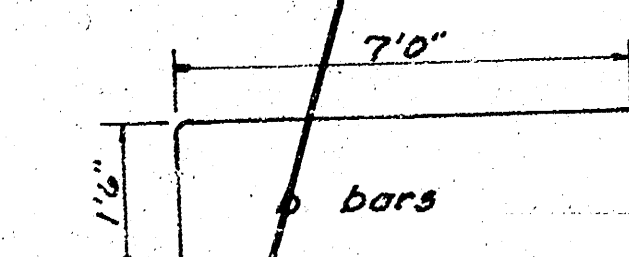
PLAN
Scale: 1/2" = 10"



SECTION
Scale: 1/2" = 10"

All exposed edges to have 1/8" bevel.

a bars	
a ₁	5'9"
a ₂	5'5"
a ₃	4'3"
a ₄	3'0"
a ₅	4'8"
a ₆	4'4"
a ₇	4'3"
a ₈	4'1"



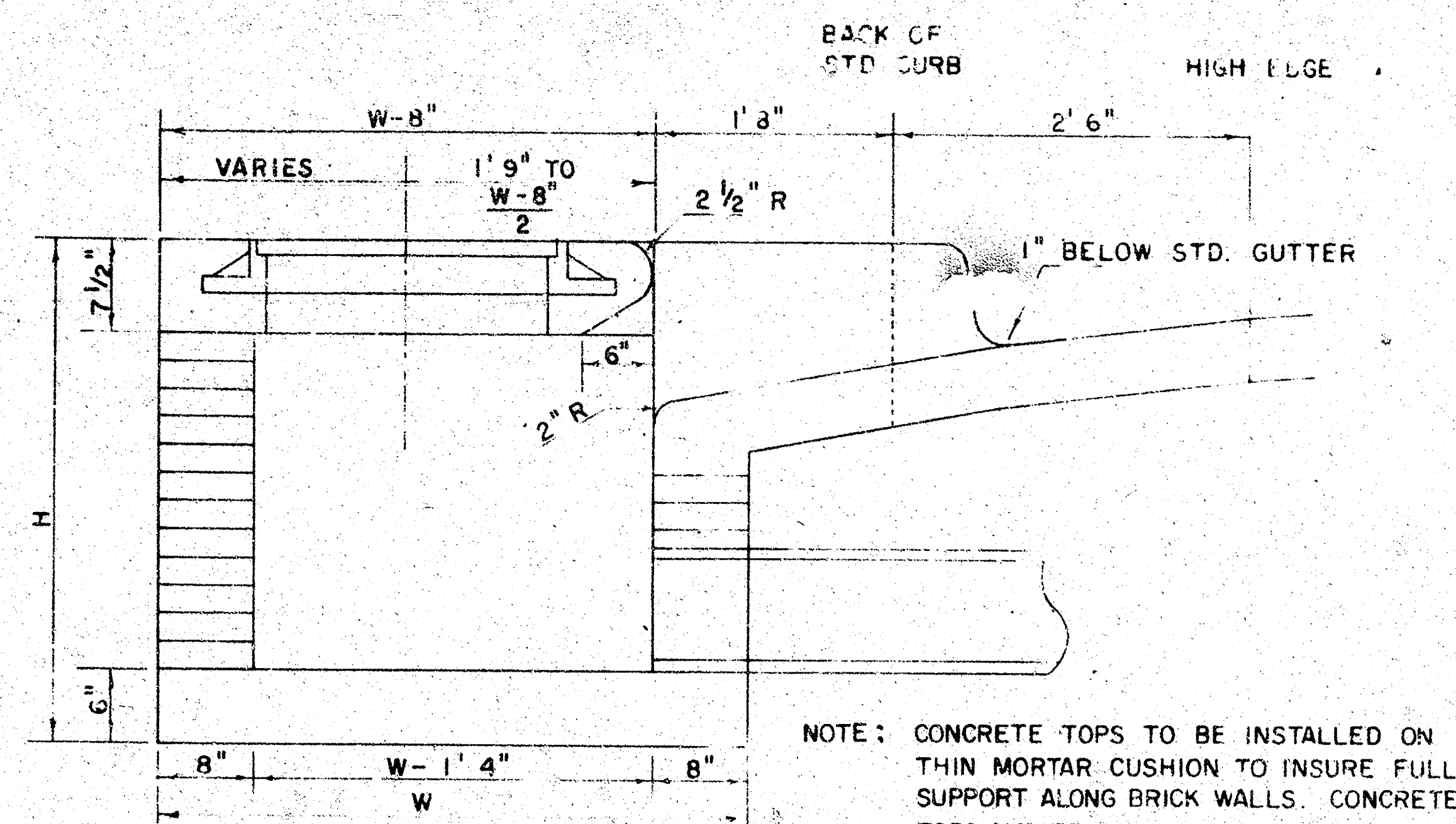
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	7'0"		4.48
a ₂	1	7'4"		4.90
a ₃	1	7'9"		5.19
a ₄	1	3'2"		5.44
a ₅	1	8'4"		5.48
a ₆	1	9'0"		4.01
a ₇	1	9'3"		4.29
a ₈	1	11'1"		7.40
b	7	8'6"		35.07
c	1	4'0"		4.01
d	2	7'6"		10.02
e	1	4'5"		2.95
f	2	4'3"		5.48
Total Rebars, lbs				103.33
Concrete, CY				2.01

All Rebars to be #4

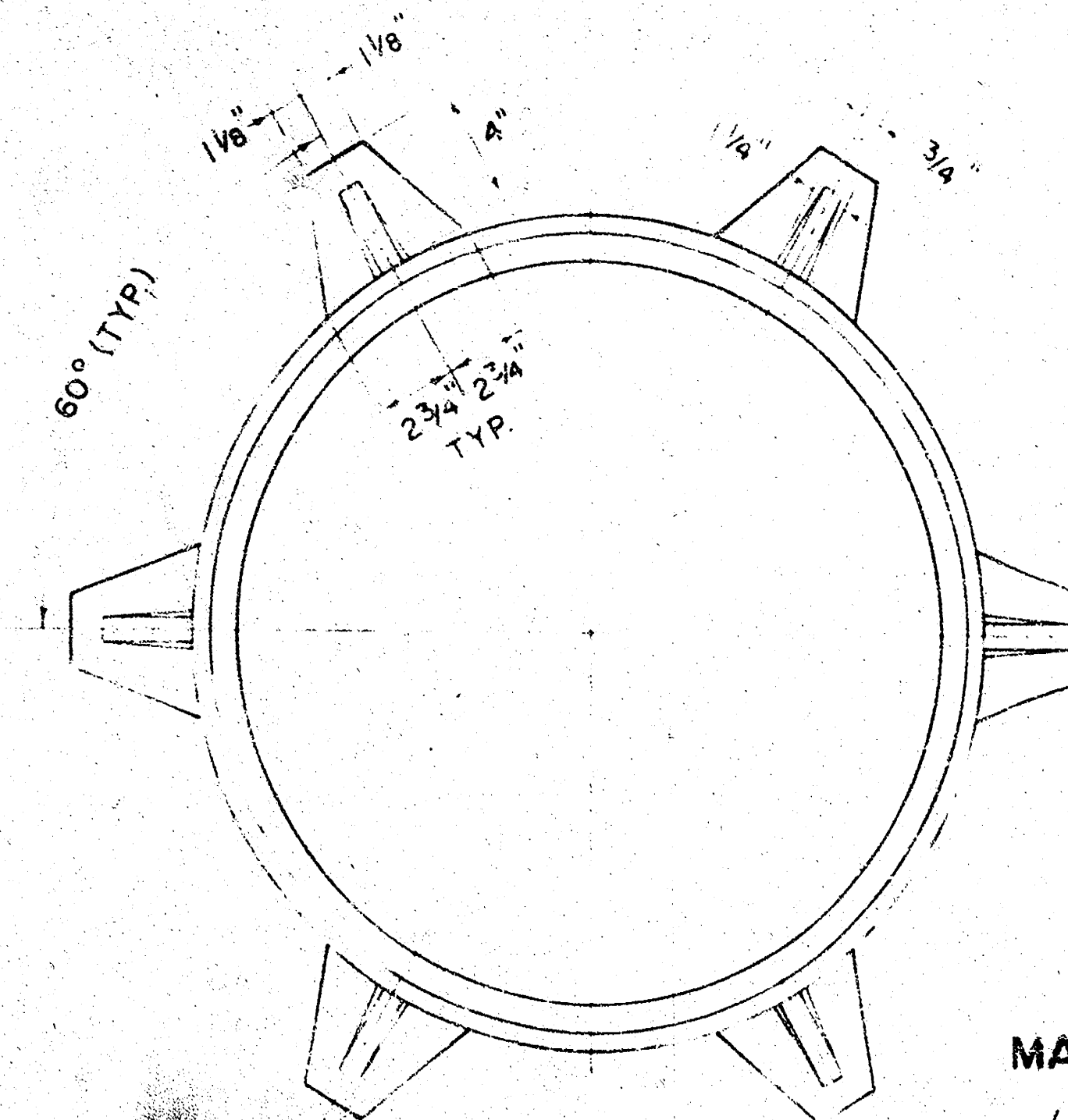
HEADWALL FOR 30" PIPE

HEADWALL DETAIL

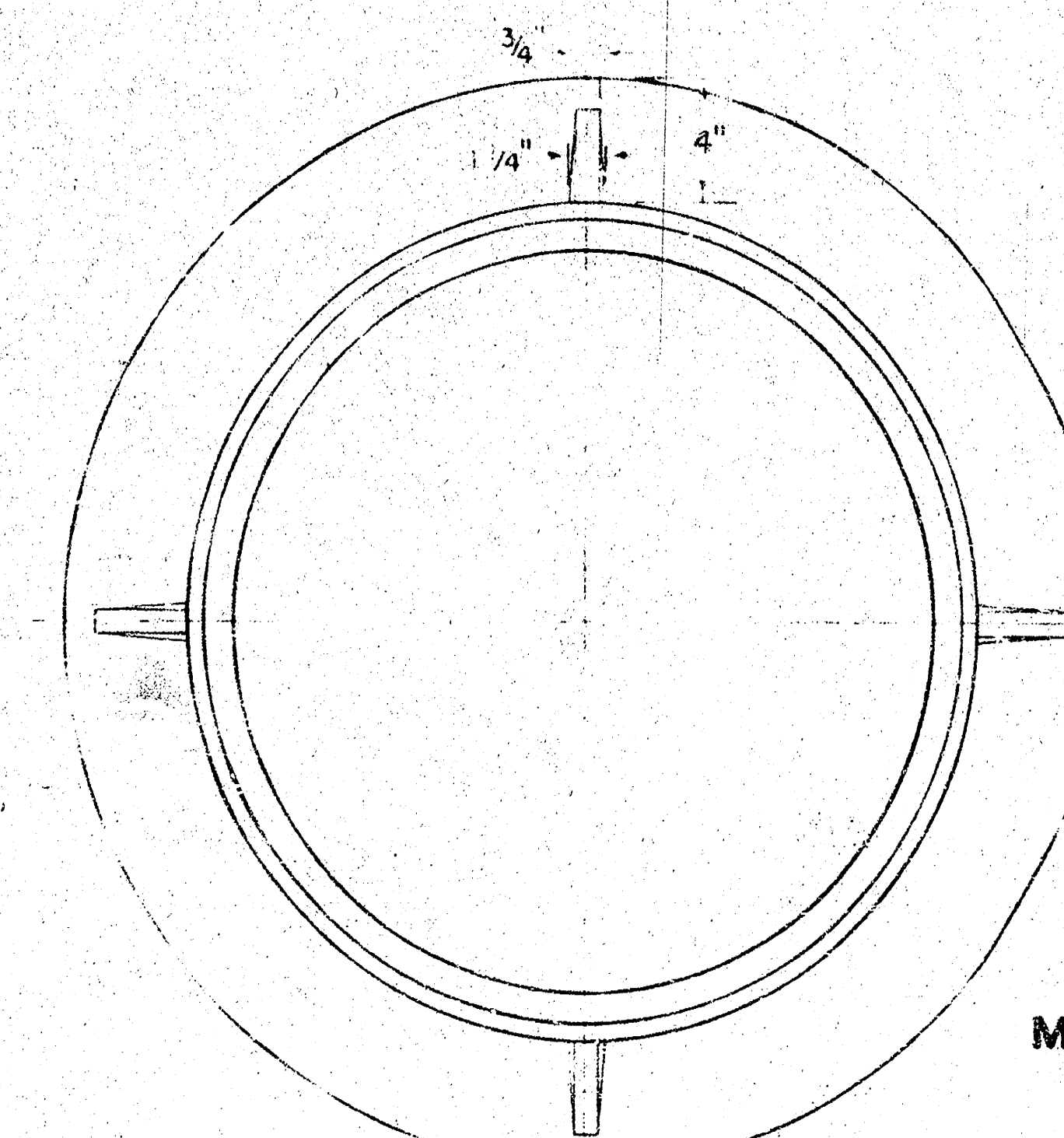
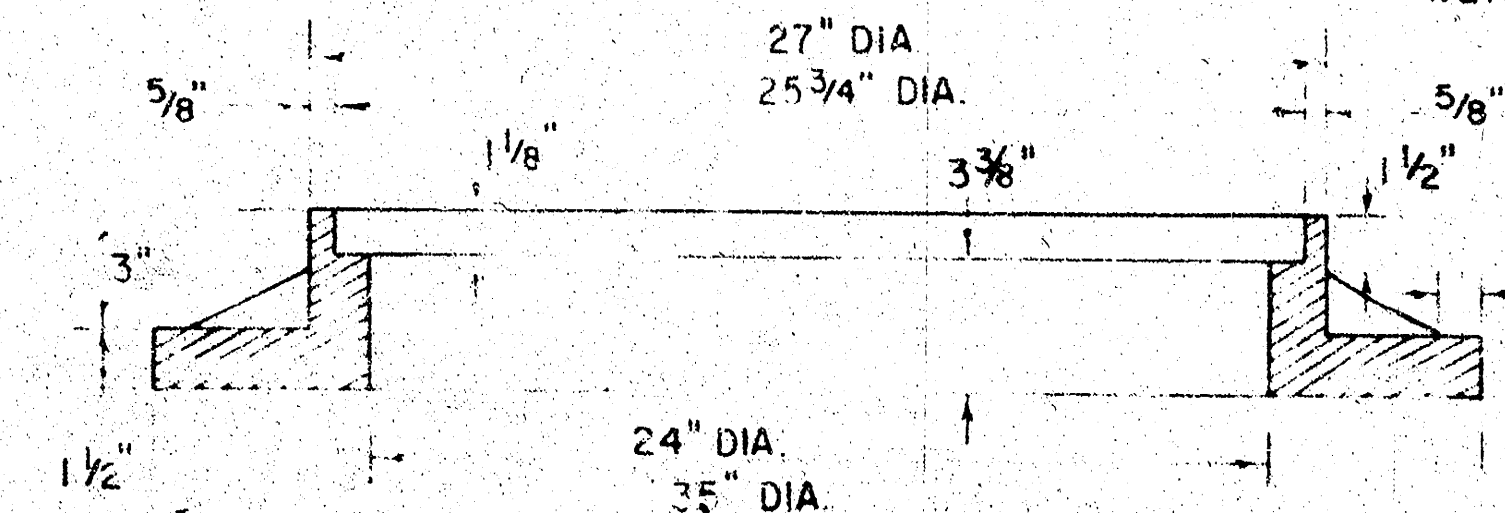
47th ST. SOUTH



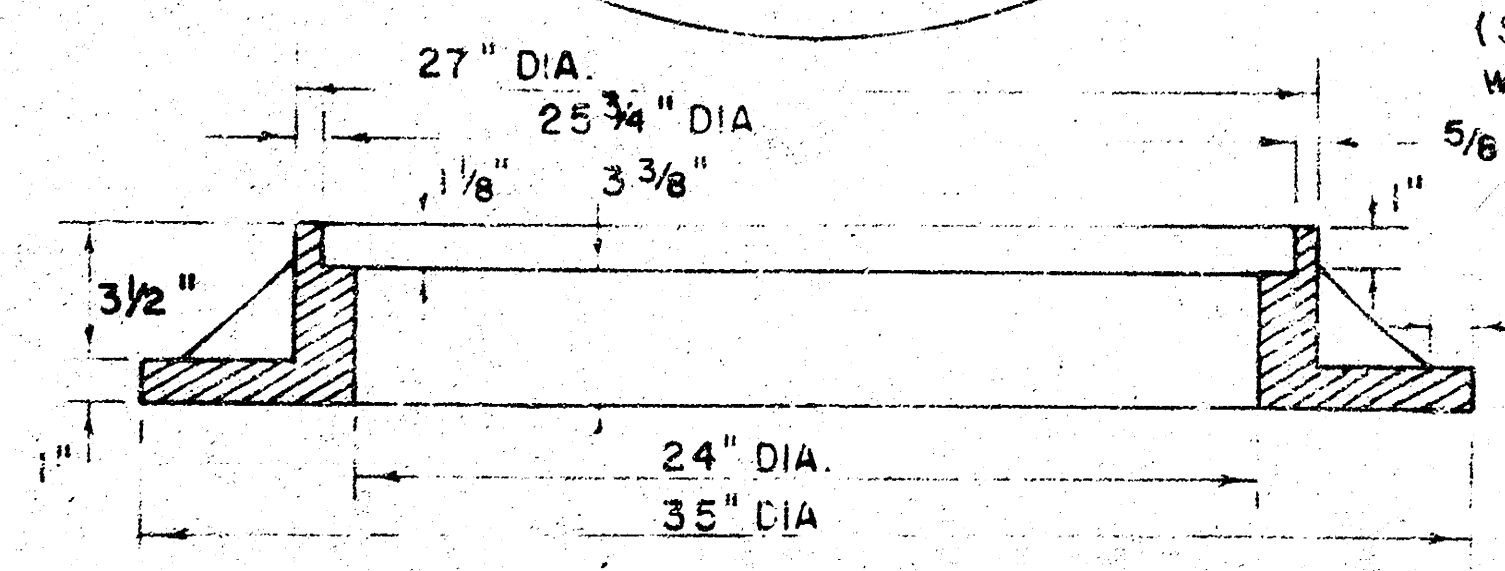
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST CONCRETE FOR INLET TOPS AND FLOORS SHALL BE 6-SACK PAVING MIX.



MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.



MANHOLE FRAME
(ALTERNATE)
(SCALE 1" = 3")
WEIGHT = 180 LBS.



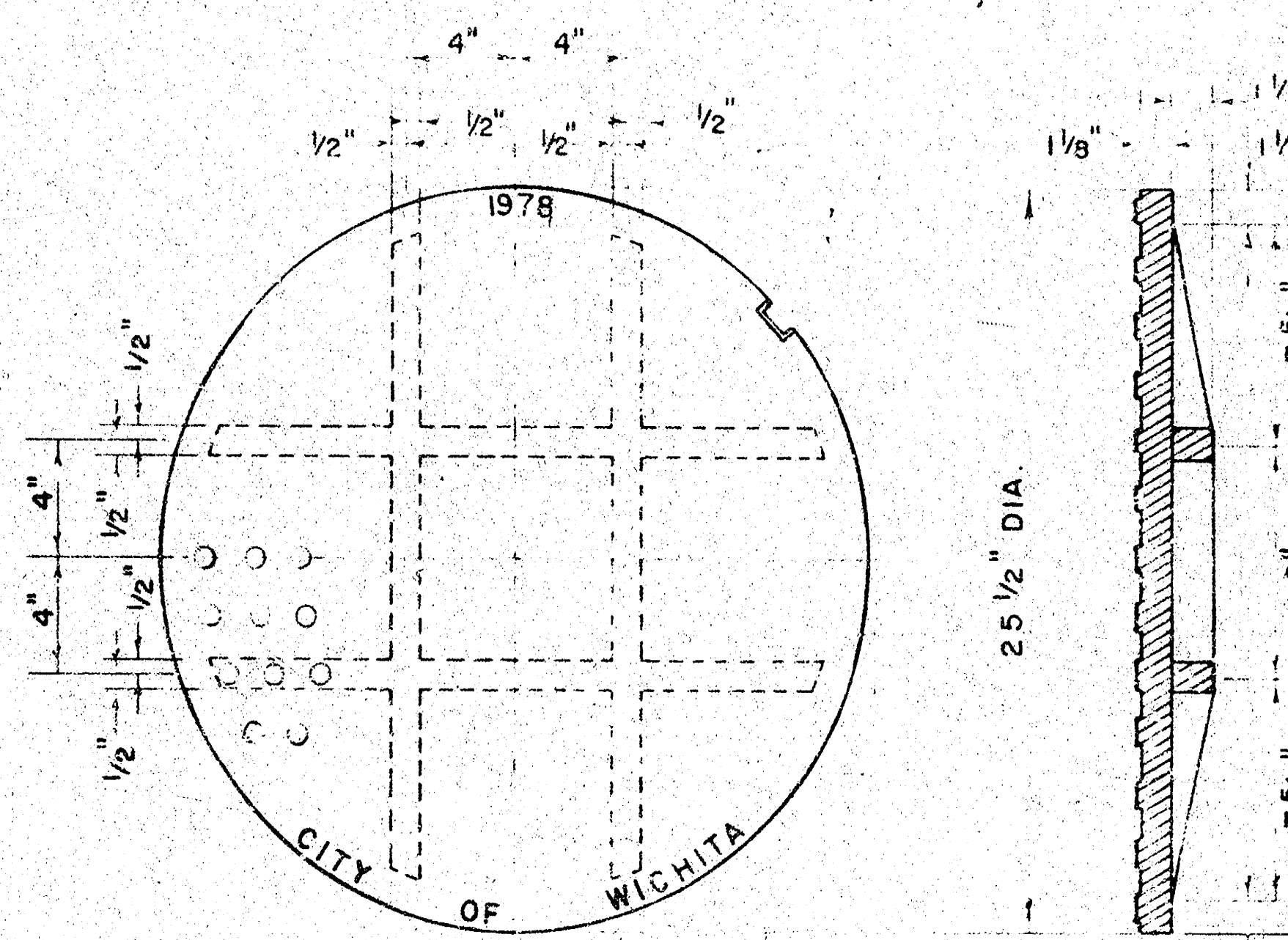
STEEL SCHEDULE

BAR	a ₁	a ₂ [*]	b ₁ [*]	b ₂	b ₃	b ₄	WT. LBS.
		W=4"2"	W=6"0"	W=7"0"			
NUMBER	8	2	1	3	5	7	
SIZE	"4	"4	"4	"4	"4	"4	
	W=4"2"	6"5"	5"4"	5"5"	-	-	60 [#]
	W=5"0"	8"1"	4"4"	-	5"5"	-	77 [#]
	W=6"0"	10"1"	5"4"	-	-	5"5"	97 [#]
	W=7"0"	11"1"	6"4"	-	-	5"5"	111 [#]
	W=8"0"	12"1"	7"4"	-	-	5"5"	124 [#]

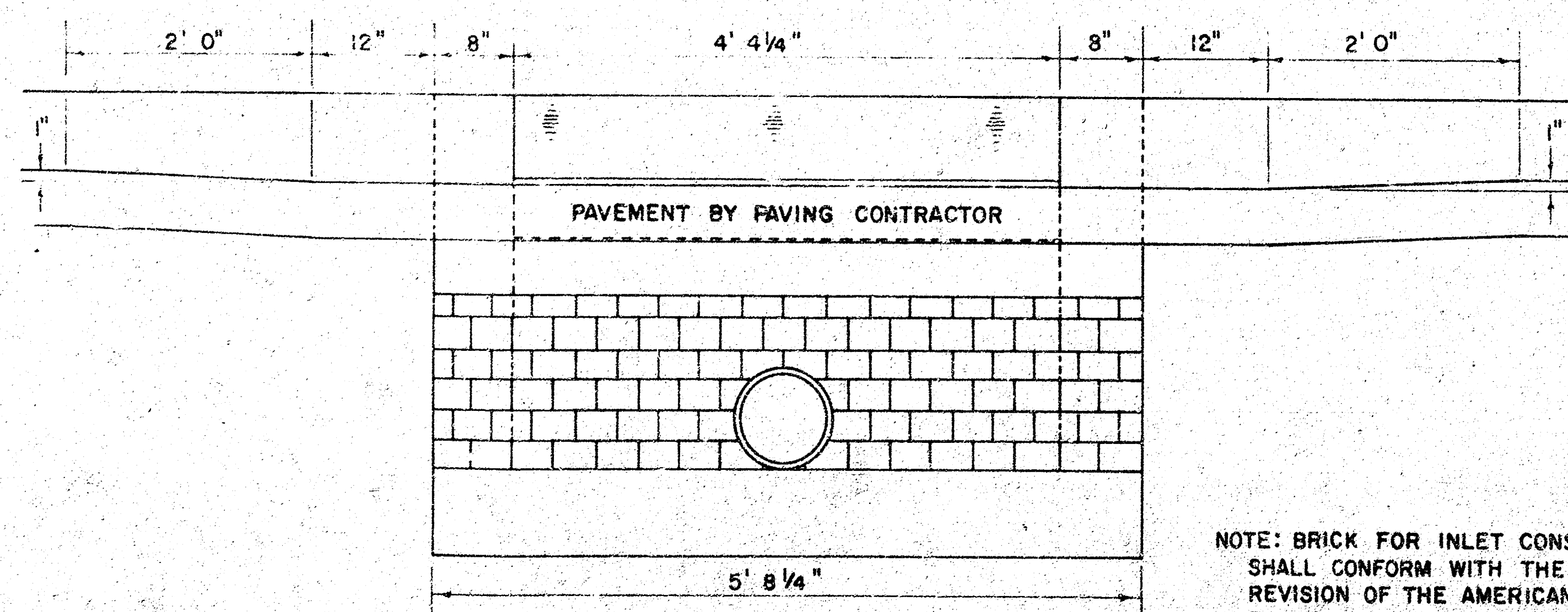
* NOTE : a_2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5'8 1/4"x7'1/2"	21" & SMALLER	0.46 *
5' 0"	44"x5'8 1/4"x7'1/2"	24" & 30"	0.57 *
6' 0"	54"x5'8 1/4"x7'1/2"	36" & 42"	0.71 *
7' 0"	64"x5'8 1/4"x7'1/2"	48" & 54"	0.84 *
8' 0"	74"x5'8 1/4"x7'1/2"	60" & 66"	0.97 *

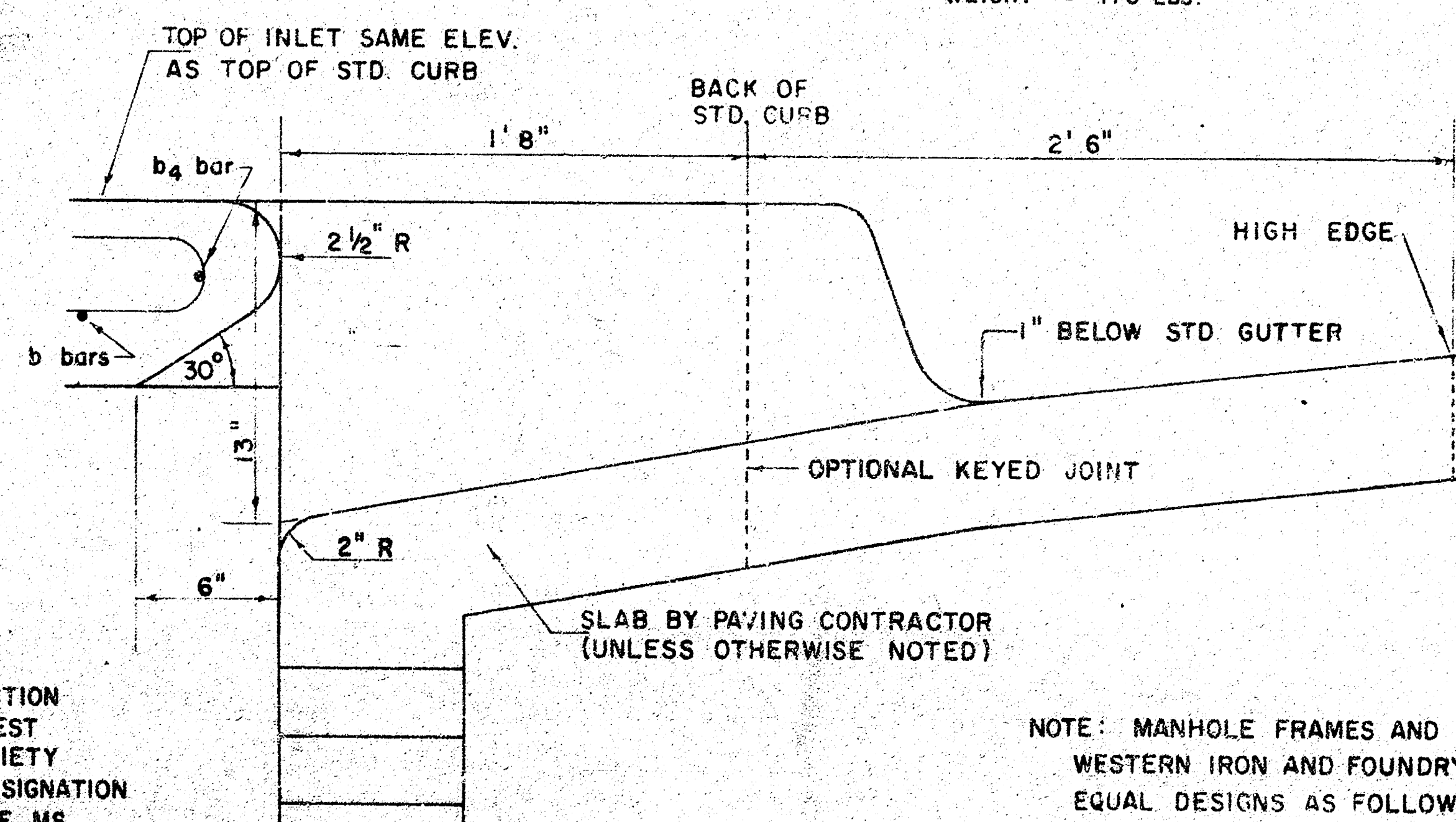
* GROSS VOLUME



MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



SECTION C - C
(SCALE 1" = 1' 0")



SECTION B - B
(SCALE 1" = 6")

NOTE: MANHOLE FRAMES AND COVER ARE
WESTERN IRON AND FOUNDRY CO. INC. OR
EQUAL DESIGNS AS FOLLOWS:
FRAME: 524-L6
FRAME (ALTERNATE): 500 A4
COVER: 222 S4- "NOBBY"

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
R. W. LINN - CITY ENGINEER
OCTOBER 1978

