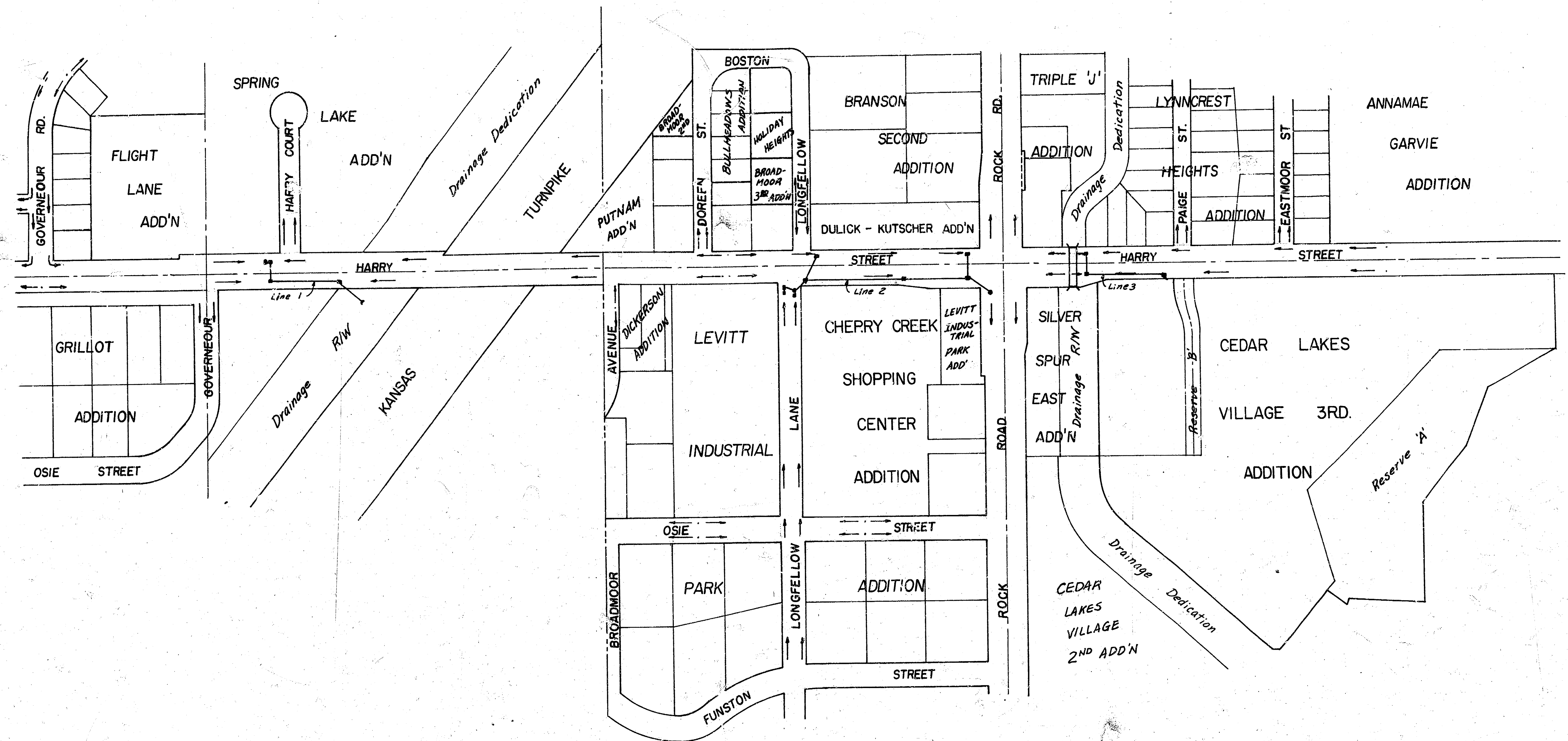
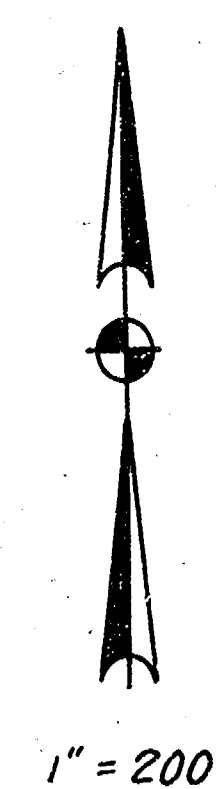


DRAINAGE IN CONNECTION WITH PAVING HARRY STREET



GENERAL NOTES

- 1.) CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
- 2.) FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND TRIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND TRIMBLES DISTURBED DURING CONSTRUCTION.
- 3.) THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
- 4.) ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
- 5.) THE CONTRACTOR SHALL AVOID REMOVING ANY TREES UNLESS IT IS ABSOLUTELY NECESSARY. CONTRACTOR IS TO TAKE WHATEVER PRECAUTION THE ENGINEER DEEMS NECESSARY (SHORING, SHIELDING, ETC.) TO INSURE THAT THE TREES IN THE VICINITY OF CONSTRUCTION ARE PROTECTED FROM INJURY (COST INCIDENTAL TO PROJECT).
- 6.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.
- 7.) CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING PRE-CAST TYPE 1A CURB INLET IN LIEU OF THE BRICK TYPE STRUCTURE. SEE STANDARD DETAIL PRE-CAST TYPE 1A CURB INLET DATED AUGUST, 1979.

Index

Sheet No.

- | | |
|-----|----------------|
| 1 | Cover Sheet |
| 2 | Line 1 |
| 3,4 | Line 2 |
| 5 | Line 3 |
| 6 | Type 1A Inlet |
| 7 | Type 1 Inlet |
| 8 | Type B Manhole |
| 9 | Headwall |

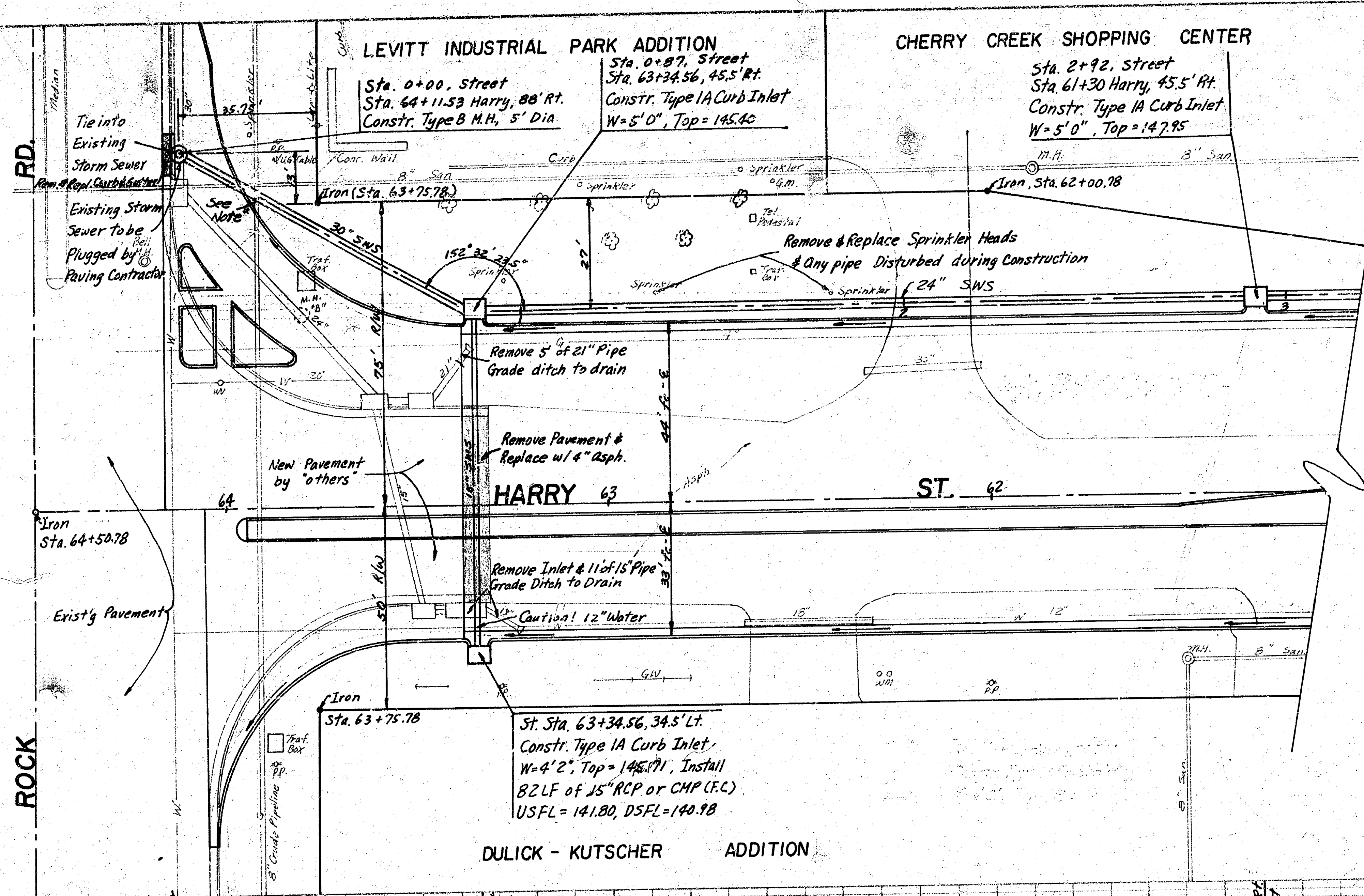
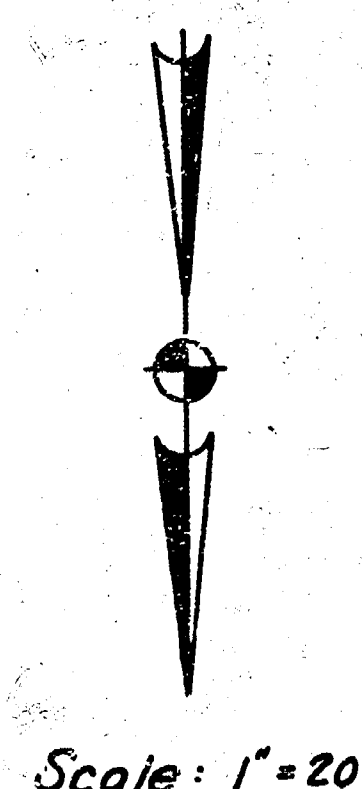
DEAN SELLERS, ACTING CITY ENGINEER
CITY OF WICHITA, KANSAS

PROJECT NO. 472 76 245 80641 000 000 002

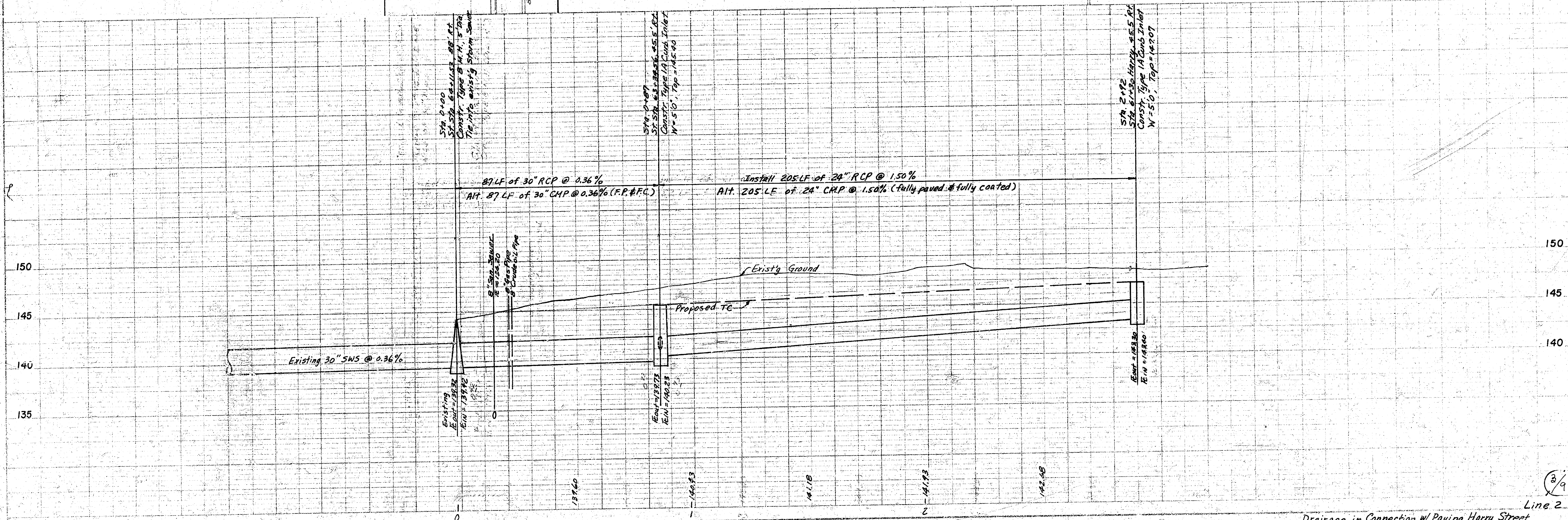
DATE: _____



B.M. 145.12 "x" Cut in "a" Ctr. Median & Rock Rd.
N.L. of Harry
B.M. 154.22 "a" Top W-Cb Longfellow 59' N of & Harry



* NOTE: CONTRACTOR SHALL CONTACT MR. DWAIN VERNON OF CONTINENTAL PIPELINE COMPANY AT (316) 794-8356 FOR LOCATION OF THE CRUDE PIPELINE AT LEAST 24 HOURS PRIOR TO BEGINNING WORK IN THE PIPELINE AREA. IF MR. VERNON CANNOT BE REACHED, CALL (316) 824-6520 or (405) 767-2382.

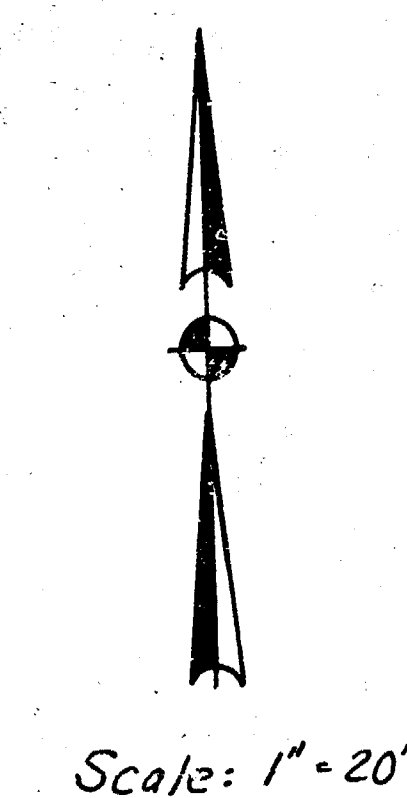
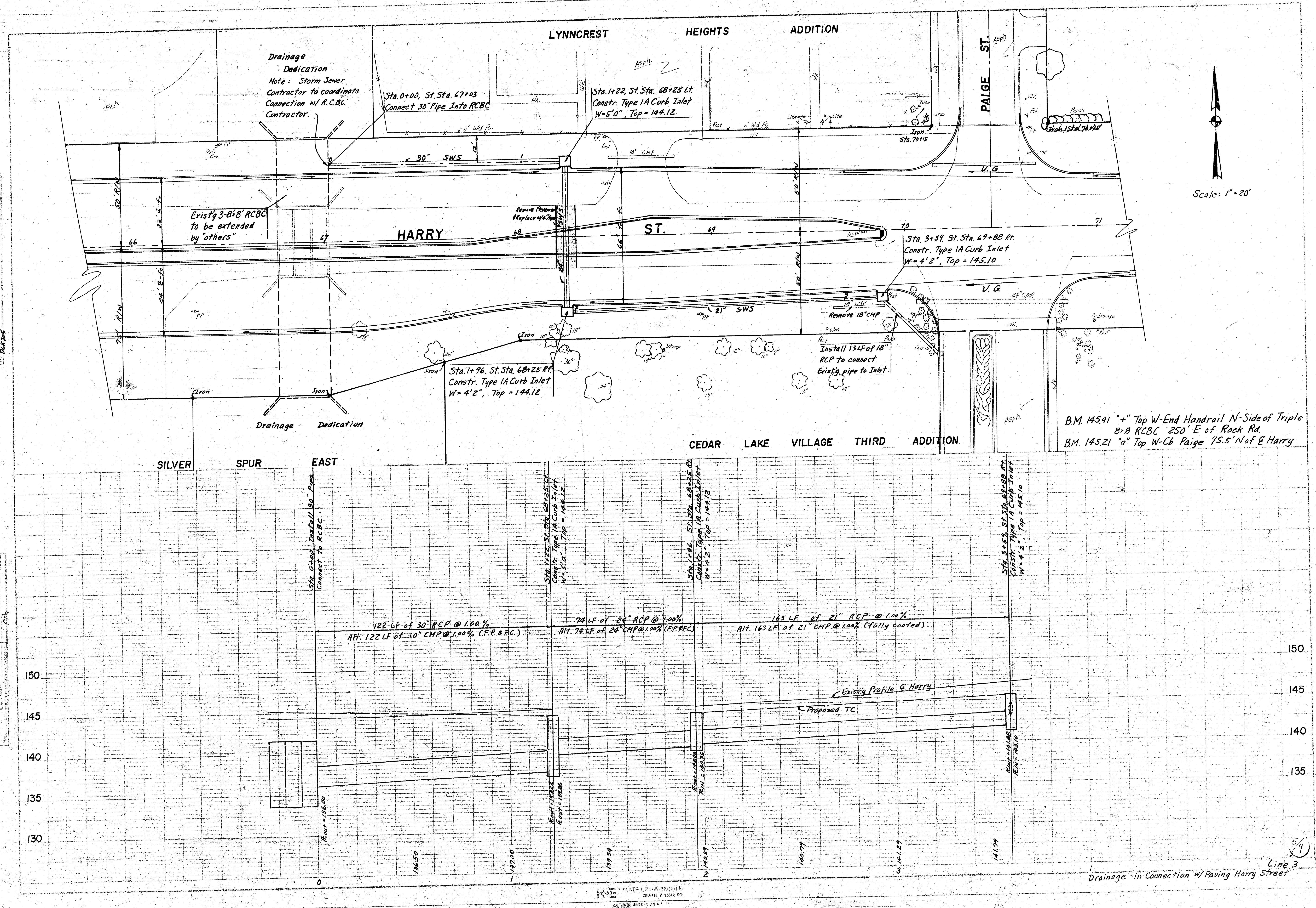


Drainage in Connection w/ Paving Harry Street

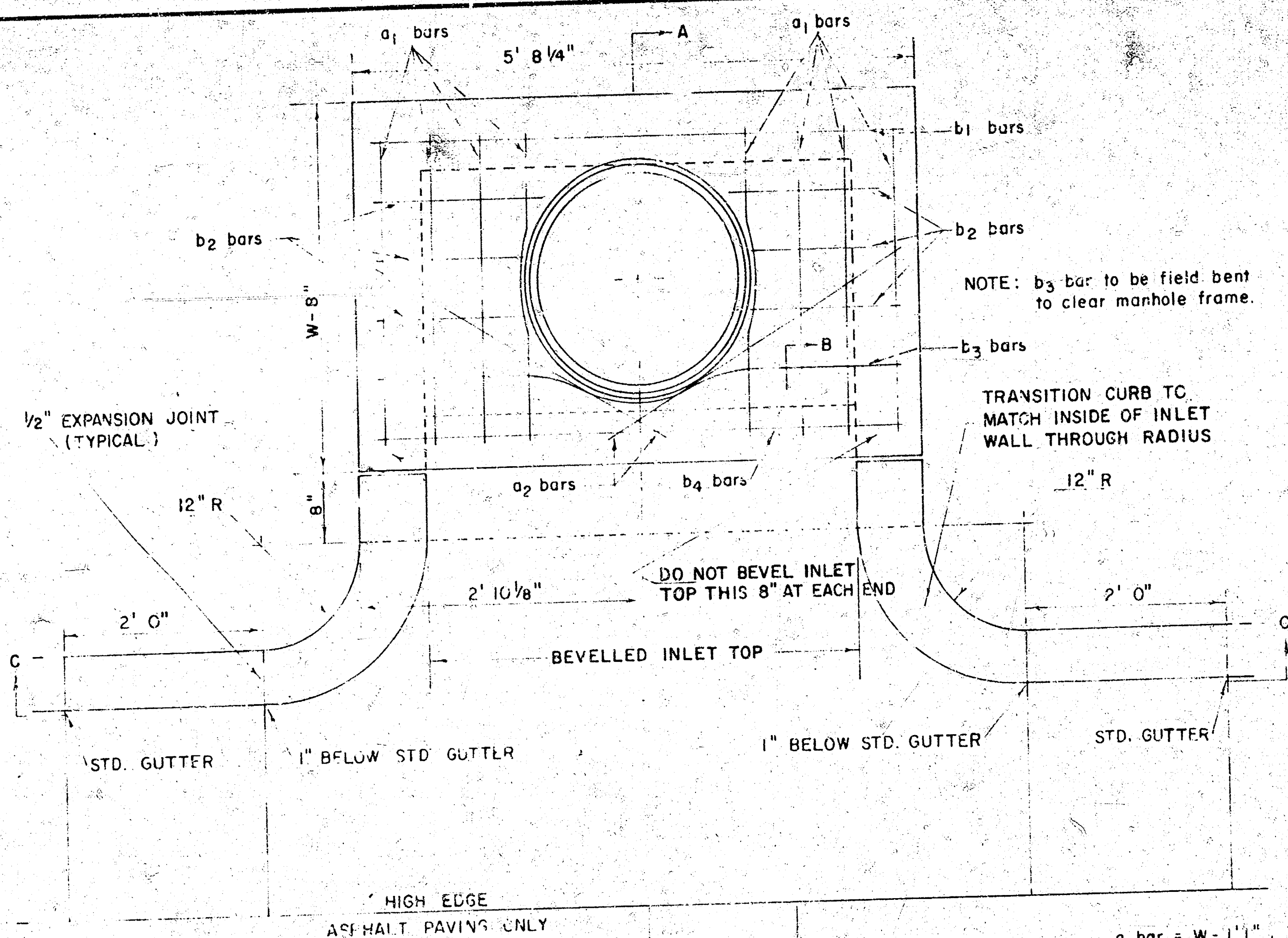
FILMED FROM THE BEST AVAILABLE COPY

PLAN
 DATE: 10/1/78
 DRAWN BY: J. L. HARRIS
 CHECKED BY: J. L. HARRIS
 TITLE: DRAINAGE DEDICATION

PROFILE
 DATE: 10/1/78
 DRAWN BY: J. L. HARRIS
 CHECKED BY: J. L. HARRIS
 TITLE: DRAINAGE DEDICATION



FILMED FROM THE BEST AVAILABLE COPY



PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE

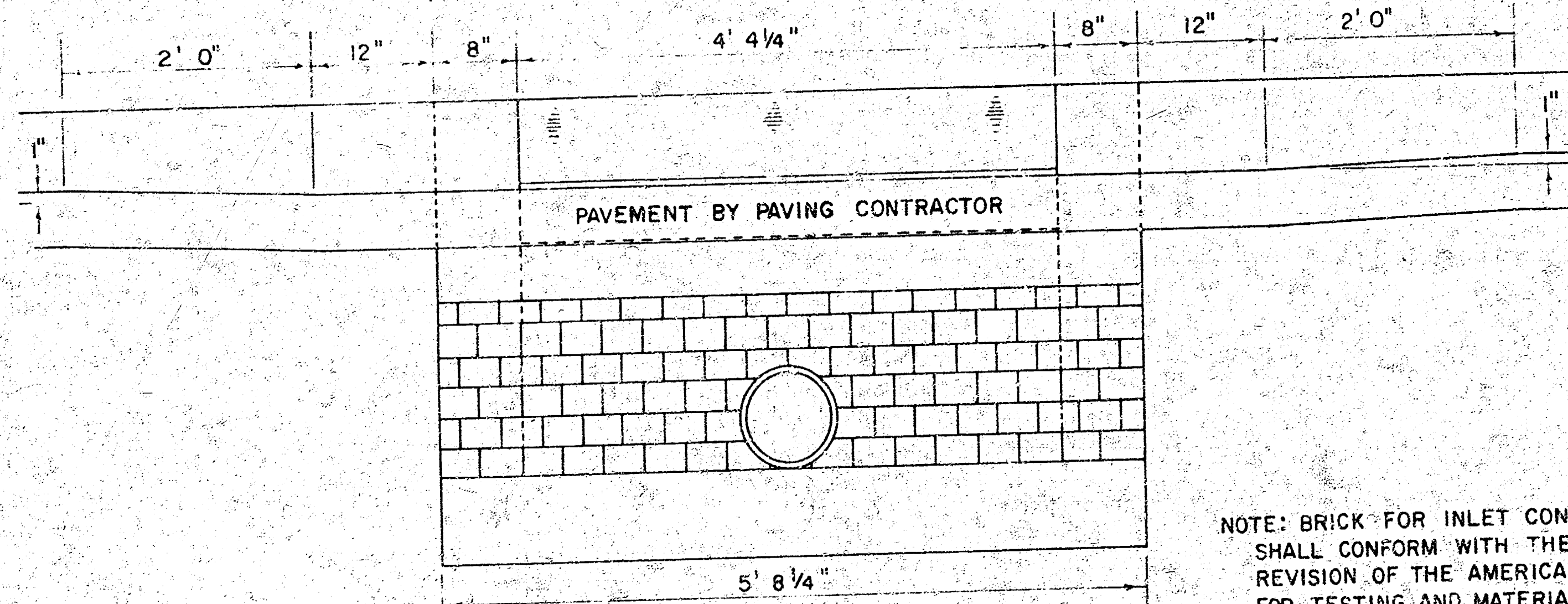
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	1	3	5	7	
SIZE	" 4	" 4	" 4	" 4	" 4	" 4	" 6
W=4' 2"	6' 5"	3' 4"	5' 5"	-	-	-	60 *
W=5' 0"	8' 1"	4' 4"	5' 5"	-	-	-	77 *
W=6' 0"	10' 1"	5' 4"	5' 5"	-	-	-	97 *
W=7' 0"	11' 1"	6' 4"	5' 5"	-	-	-	111 *
W=8' 0"	12' 1"	7' 4"	5' 5"	-	-	-	124 *

* NOTE: a₂ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

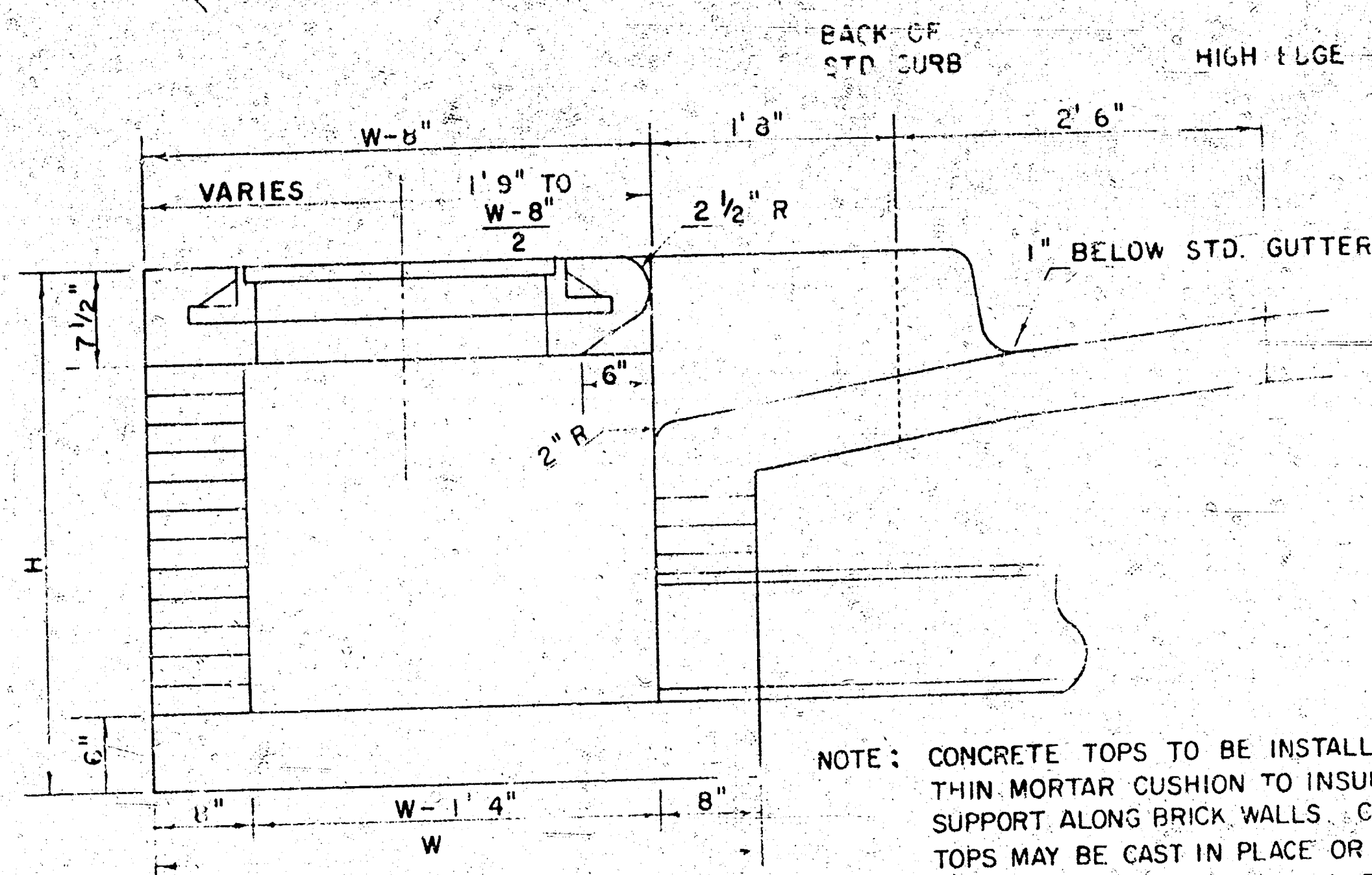
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	3' 6" x 5' 8 1/4" x 7 1/2"	21" & SMALLER	0.46 *
5' 0"	4' 4" x 5' 8 1/4" x 7 1/2"	24" & 30"	0.57 *
6' 0"	5' 4" x 5' 8 1/4" x 7 1/2"	36" & 42"	0.71 *
7' 0"	6' 4" x 5' 8 1/4" x 7 1/2"	48" & 54"	0.84 *
8' 0"	7' 4" x 5' 8 1/4" x 7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME



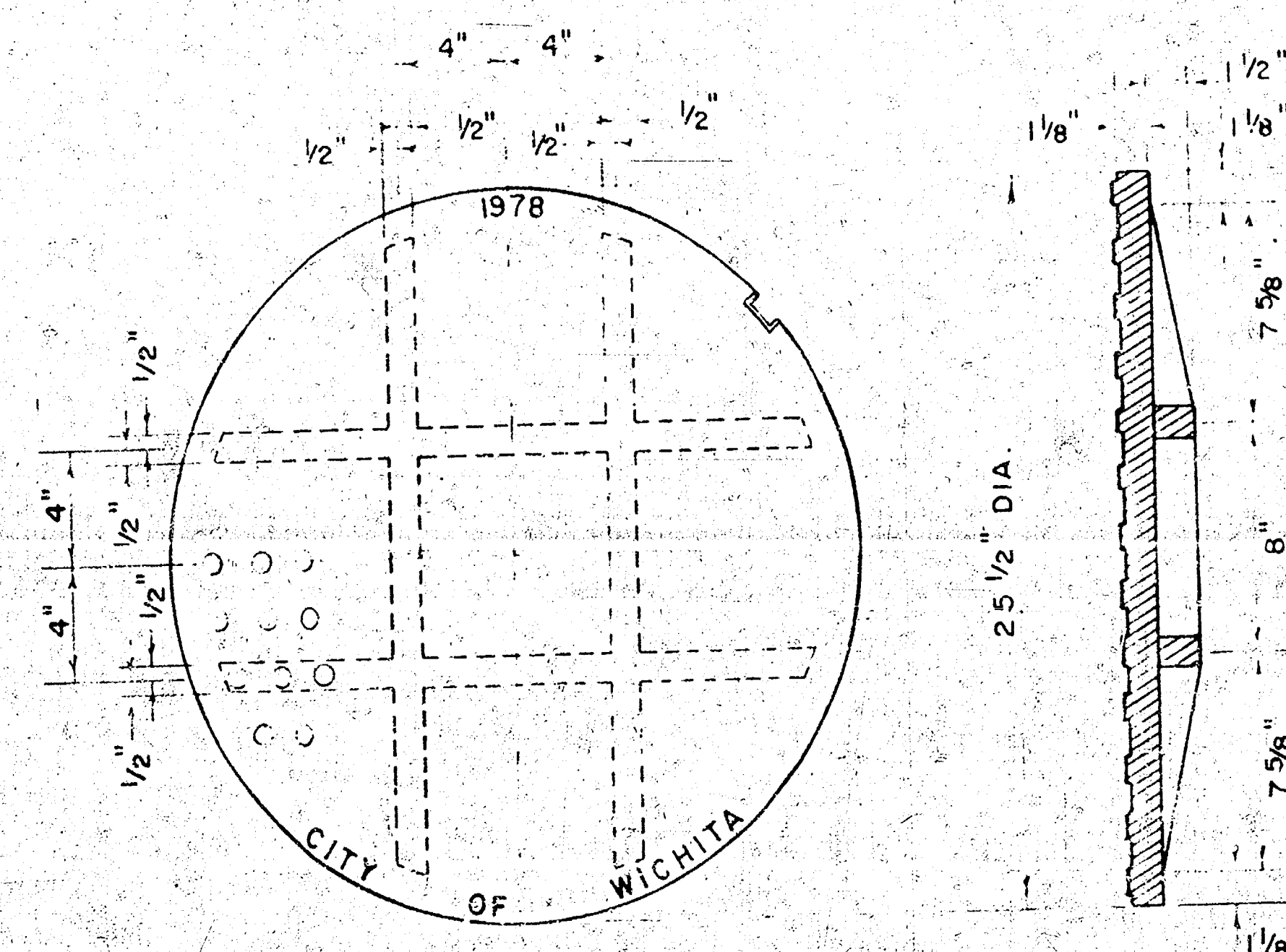
SECTION C-C (SCALE 1" = 1' 0")

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.

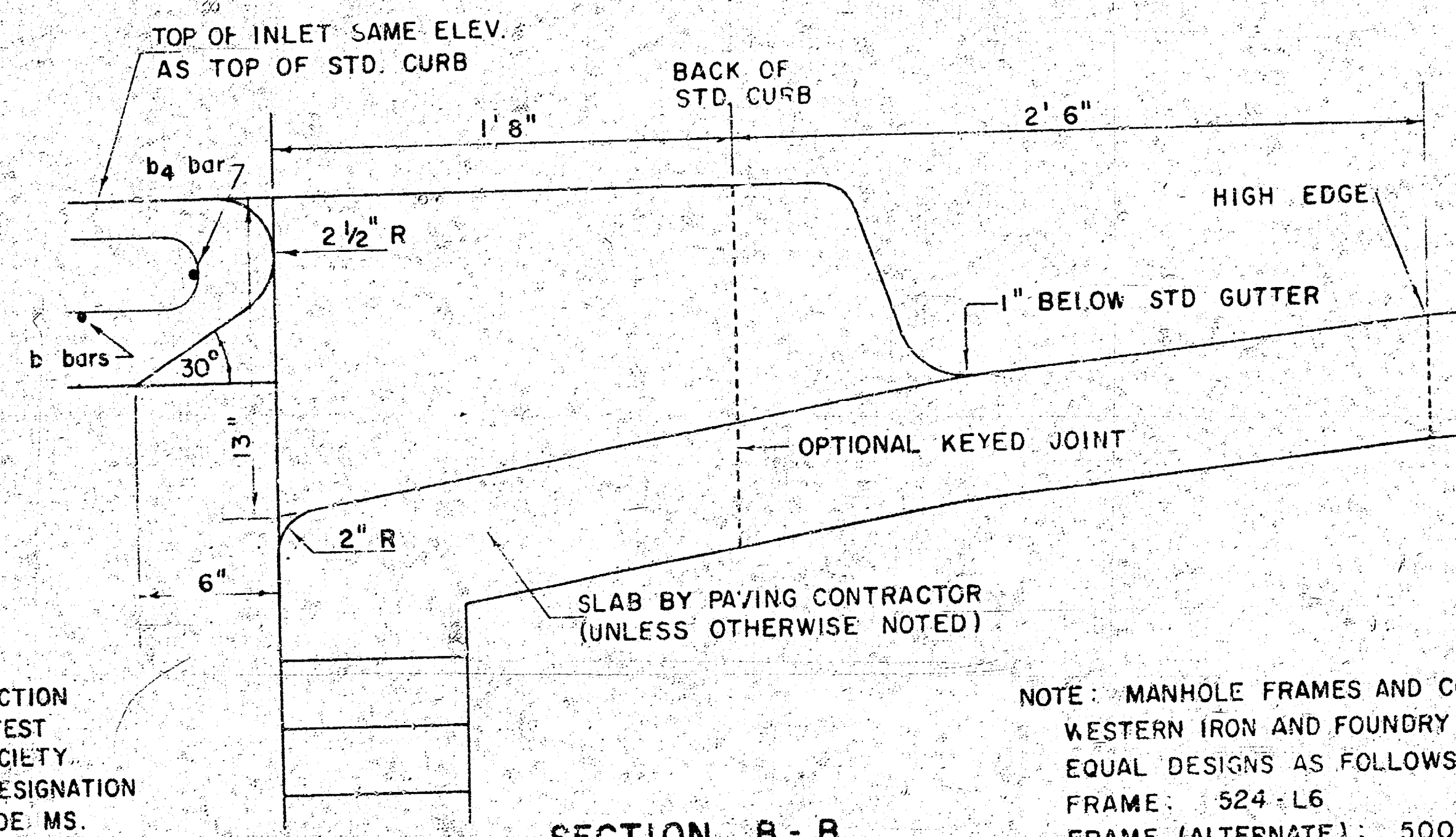


SECTION A-A (SCALE 1" = 1' 0")

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.

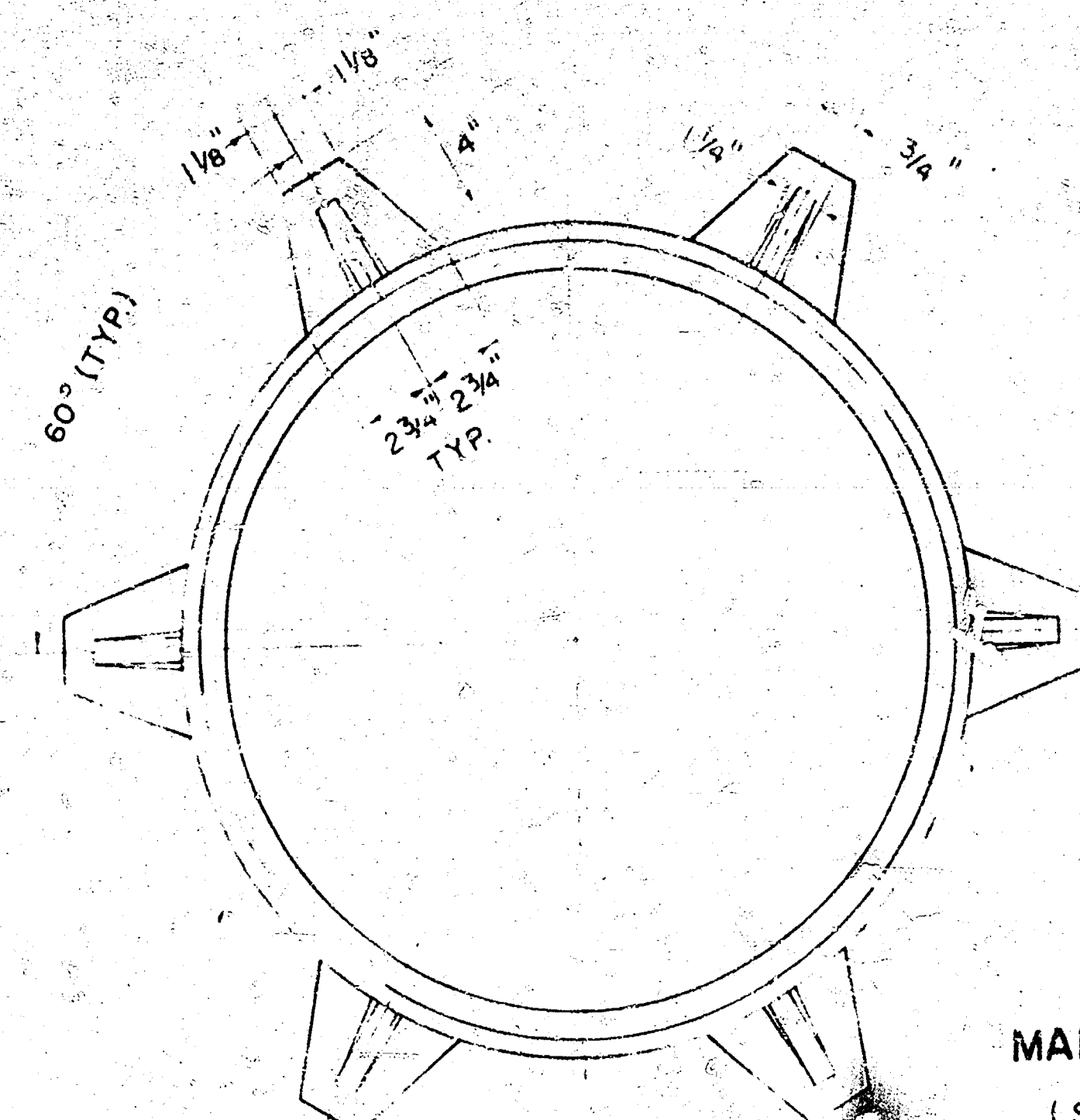


MANHOLE COVER (SCALE 1" = 6")
WEIGHT = 170 LBS.

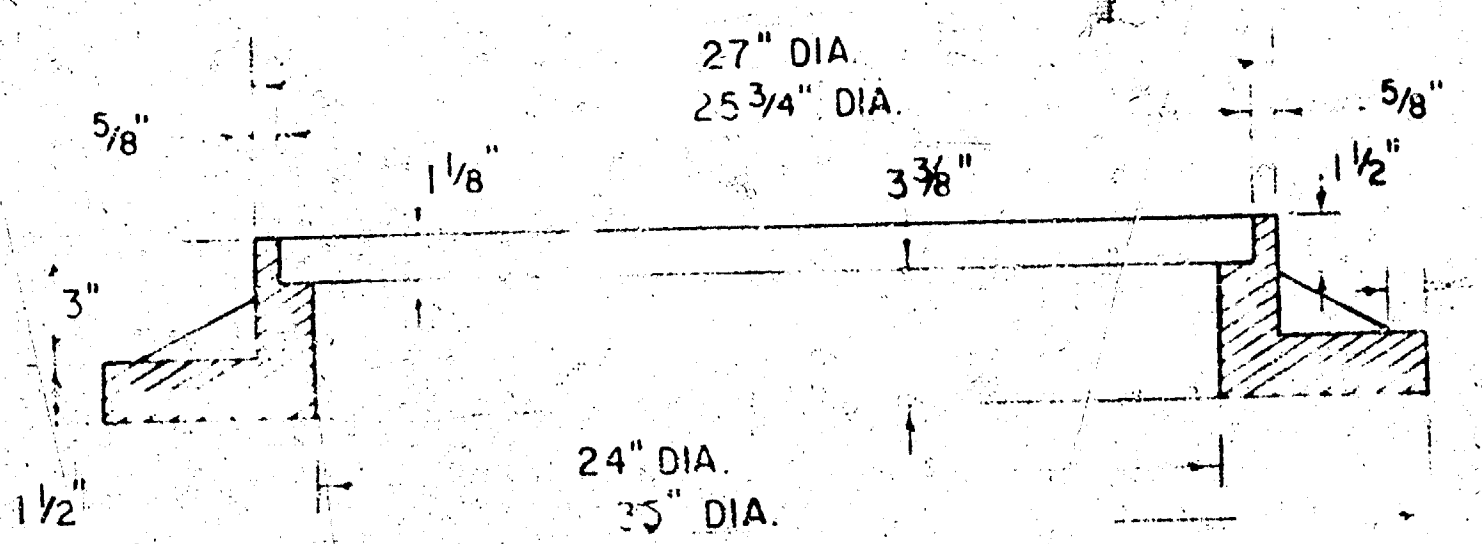


SECTION B-B (SCALE 1" = 6")

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"

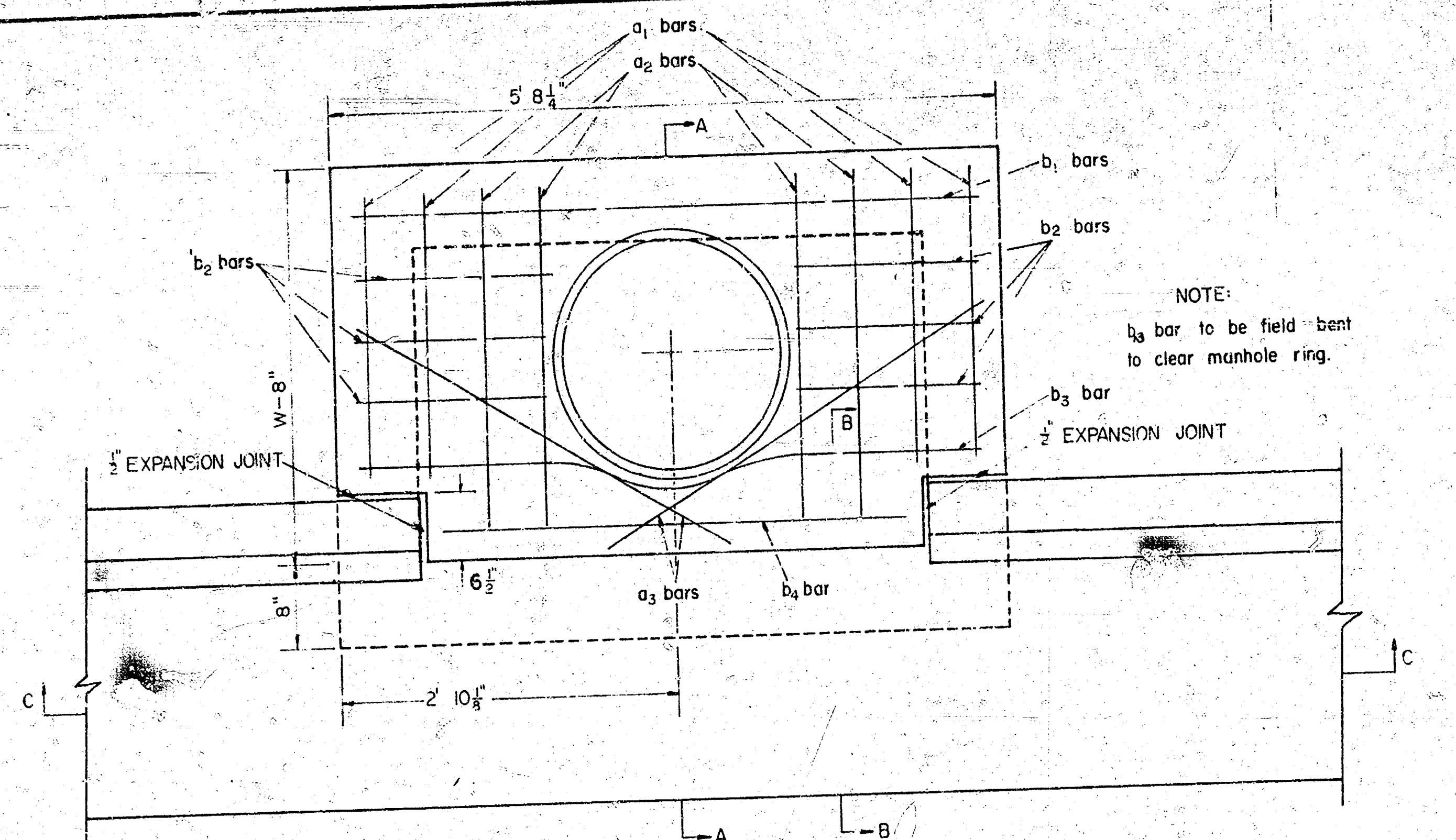


MANHOLE FRAME (SCALE 1" = 5")
WEIGHT = 180 LBS.



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

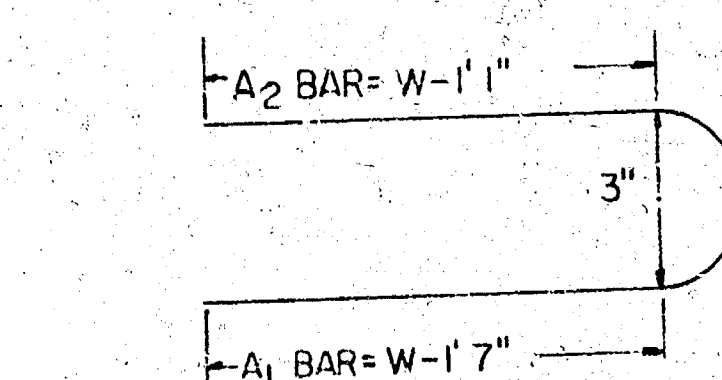
DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
R. W. LINN - CITY ENGINEER
OCTOBER 1978



PLAN
SCALE: 1"=1'0"

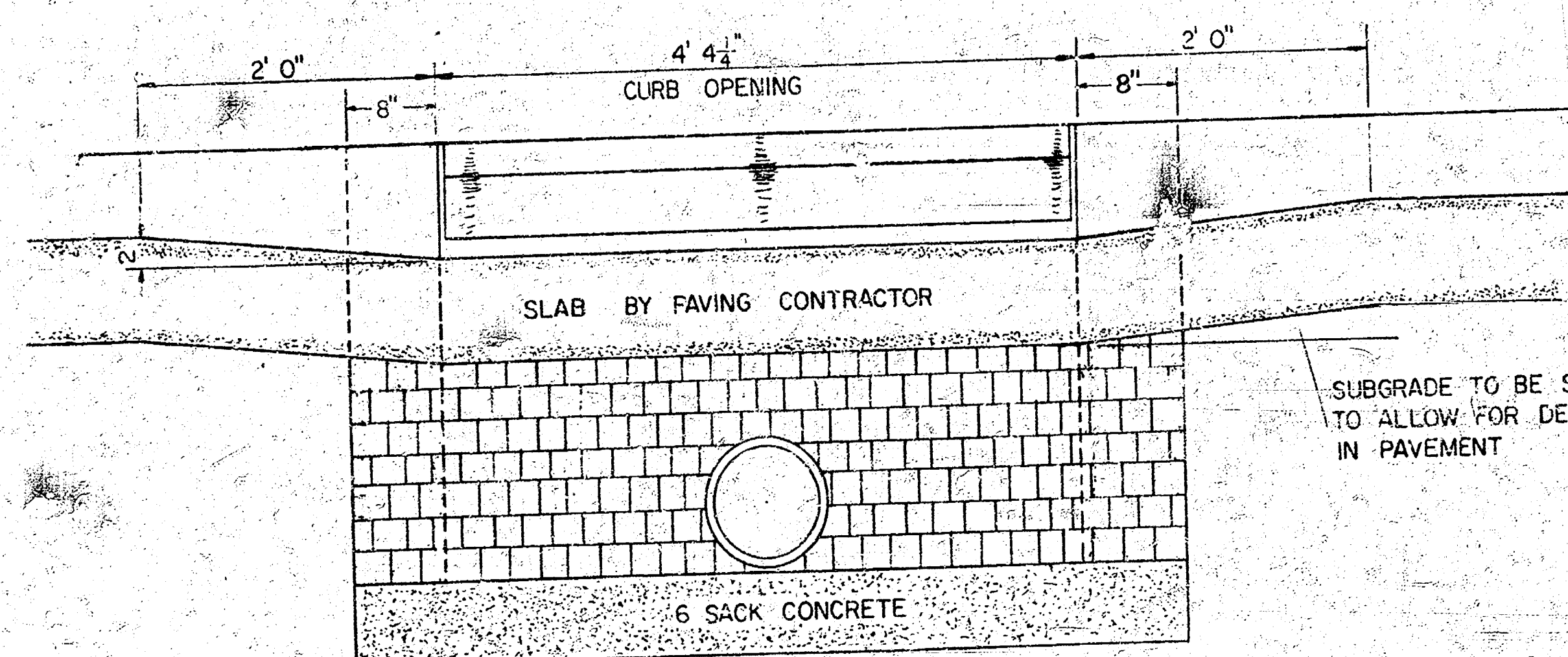
REINF. STEEL TO BE PLACED ON 6" CTR'S

SHAPE CURB AND/OR GUTTER AT INLET
OPENING WITH SMOOTH CURVES



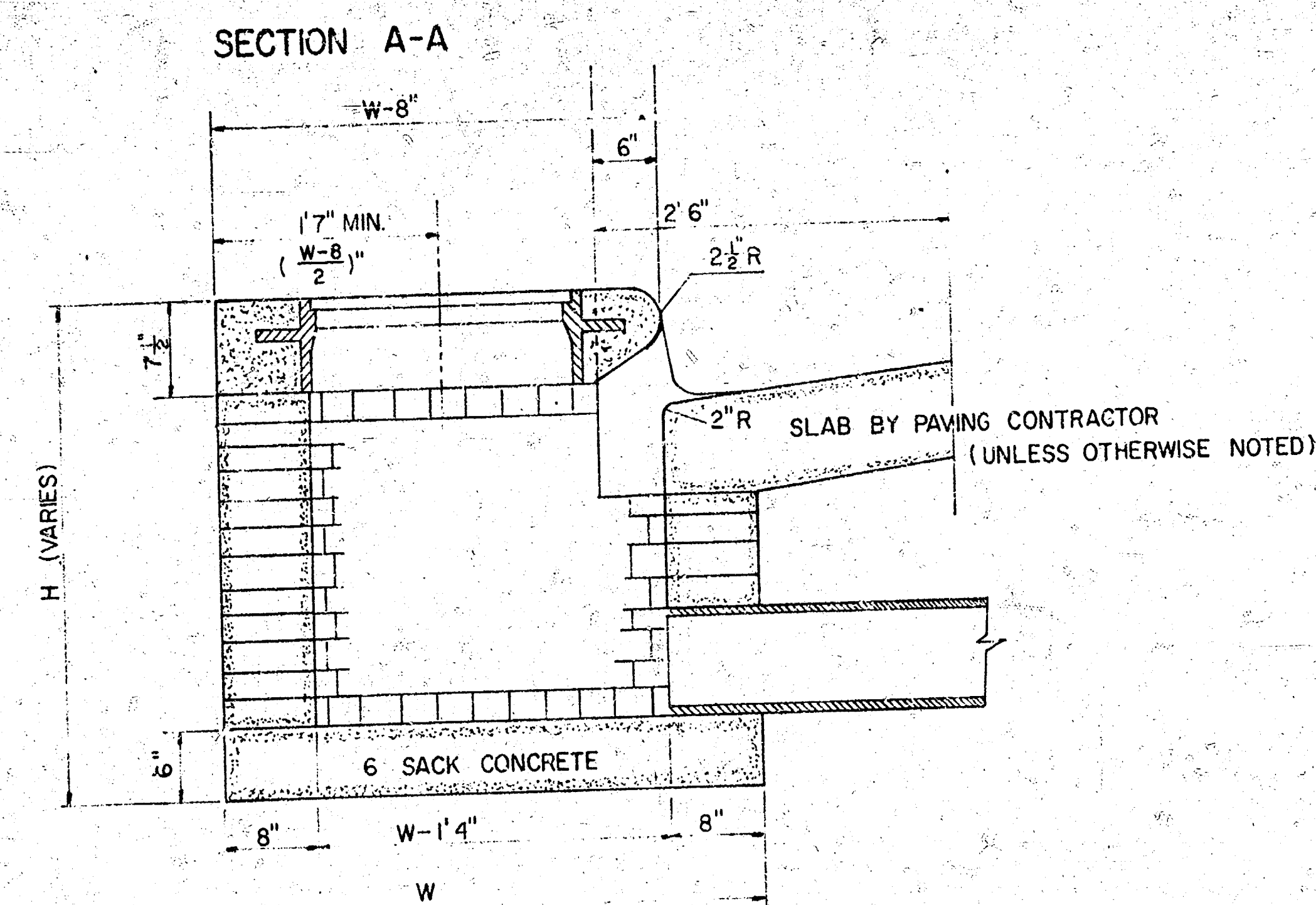
BAR	a ₁	a ₂	a ₃ *	b ₁			b ₂	b ₃	b ₄	WT LBS.	
				W=3' 10"	W=4' 10"	W=5' 10"					
SIZE	" 4	" 4	" 4	" 4	" 4	" 4	" 4	" 4	" 6		
NUMBER	4	4	2	3	5	5	6	1	1		
LENGTH	W=3' 10"	4' 9"	5' 9"	3' 7"	5' 5"	—	—	1' 7"	5' 6"	4' 0"	53
	W=4' 10"	6' 9"	7' 9"	4' 7"	—	5' 5"	—	1' 7"	5' 6"	4' 0"	72
	W=5' 10"	8' 9"	9' 9"	5' 7"	—	—	5' 5"	1' 7"	5' 6"	4' 0"	91

* NOTE: A3 BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER



SECTION C-C
SCALE: 1"=1'0"

BRICK FOR INLET CONSTRUCTION SHALL
CONFORM WITH THE LATEST REVISION OF
THE AMERICAN SOCIETY FOR TESTING AND
MATERIALS DESIGNATION C32 FOR MANHOLE
BRICK GRADE MS.

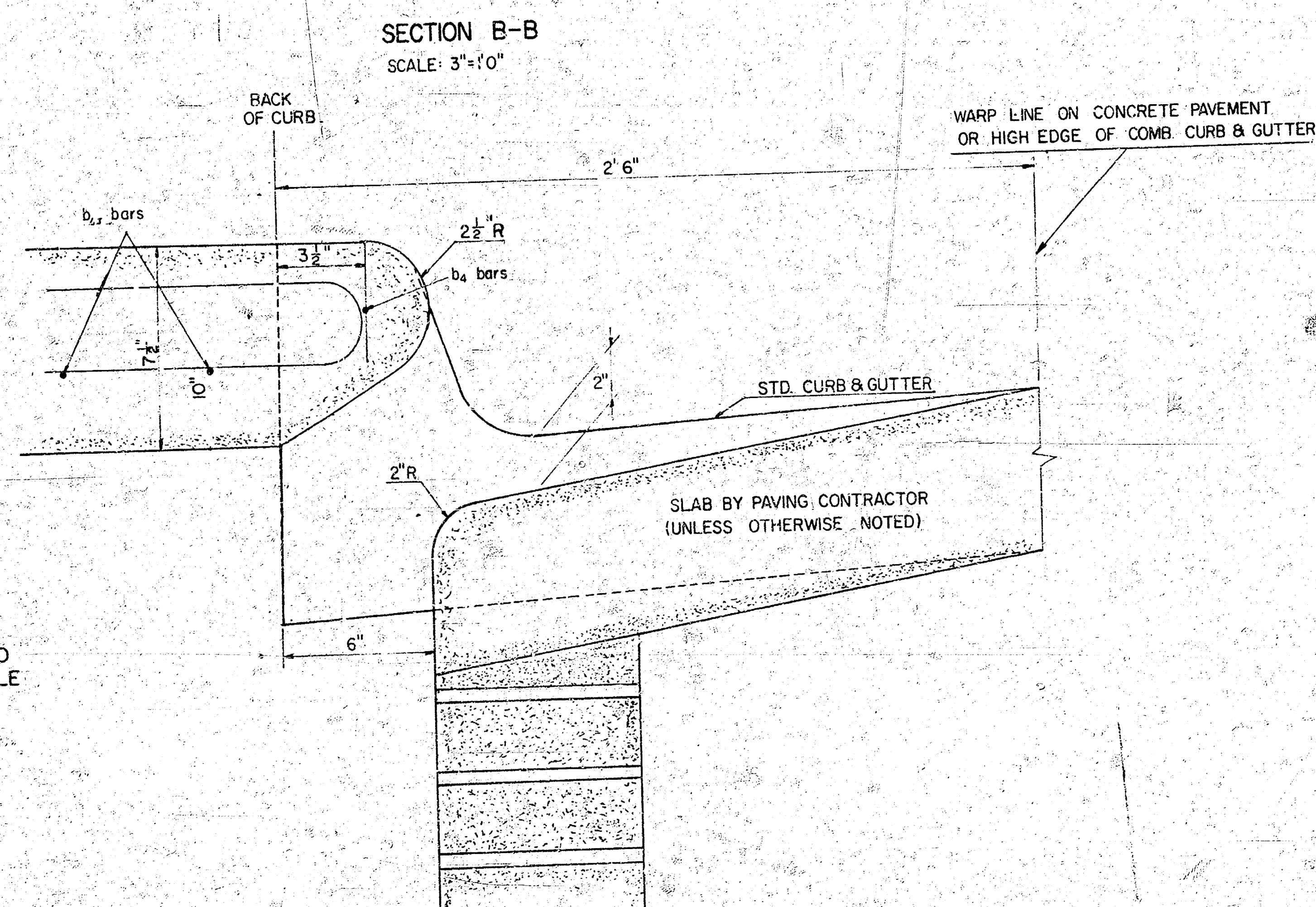


SECTION A-A
SCALE: 1"=1'0"

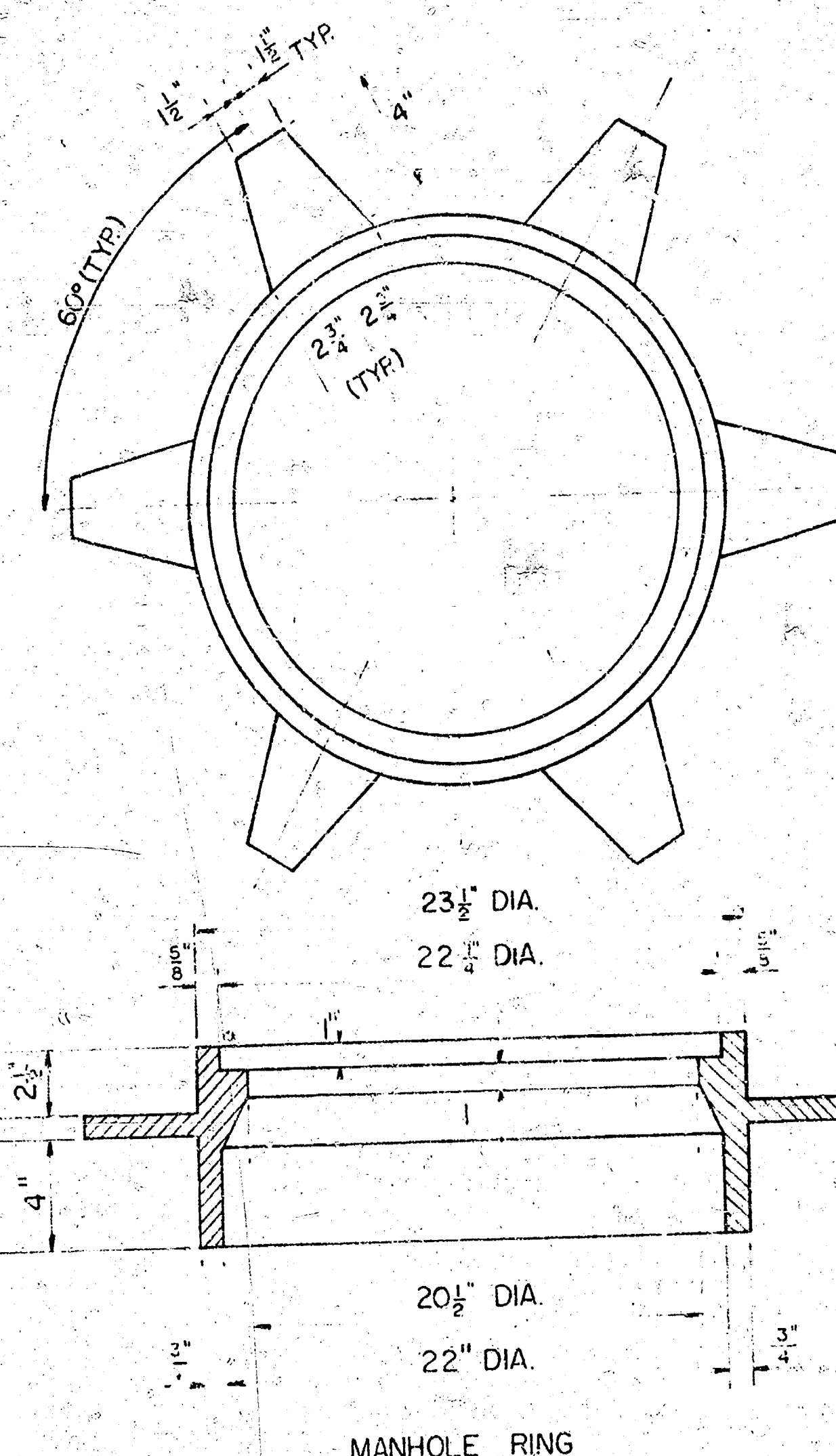
W	SIZE	PIPE SIZE	CU. YD. CONC.
3' 10"	3' 2" x 5' 8 1/2" x 7 1/2"	24" BSMALLER	0.42"
4' 10"	4' 2" x 5' 8 1/2" x 7 1/2"	30" B 36"	0.55"
5' 10"	5' 2" x 5' 8 1/2" x 7 1/2"	42" B 48"	0.68"

* GROSS VOLUME

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.



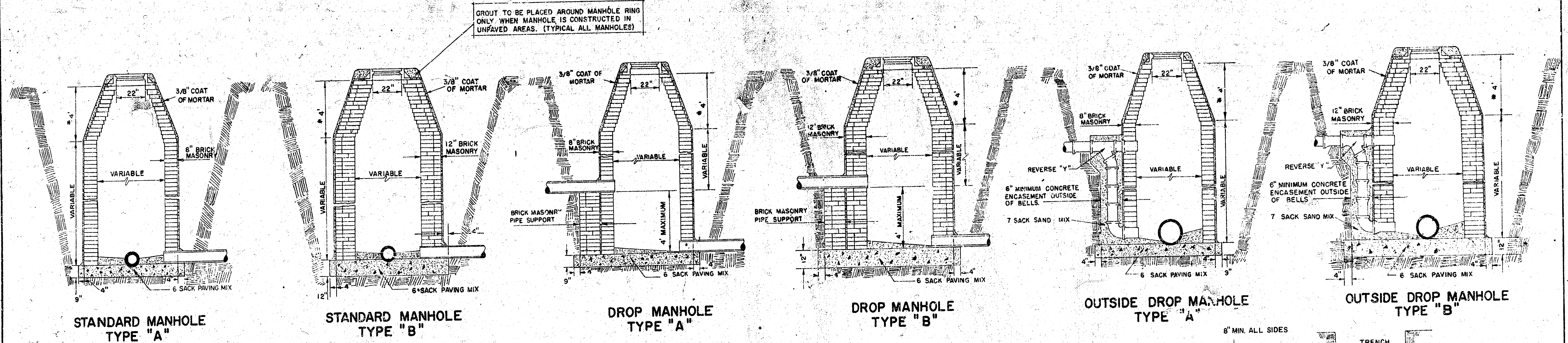
SECTION B-B
SCALE: 3"=1'0"



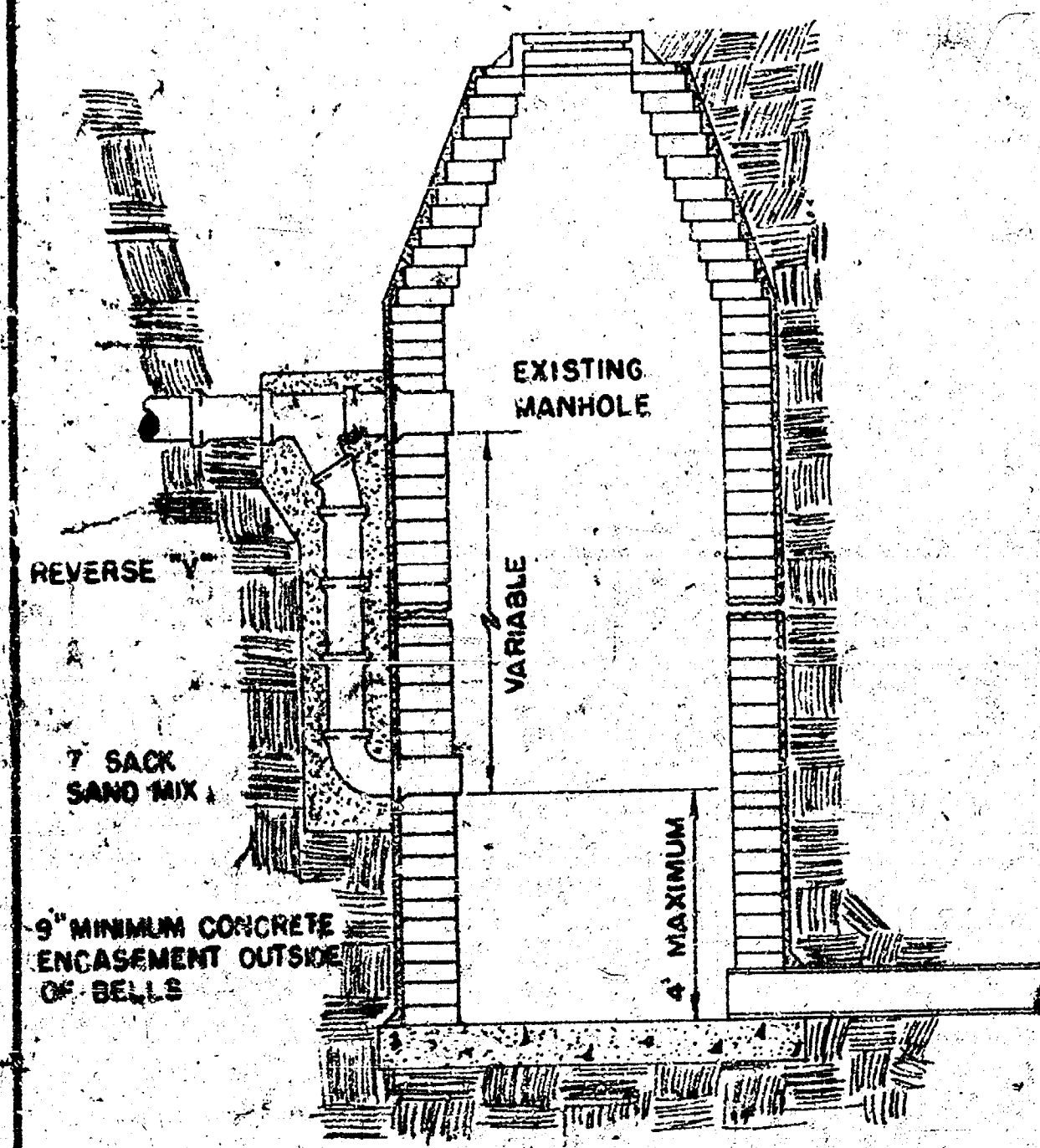
SEE SEWER APPURTENANCES DETAIL
SHEET FOR MANHOLE COVER

THIS TYPE INLET TO BE USED WHEN
PAVEMENT IS ASPHALT PAVEMENT WITH
CONCRETE BASE AND/OR WHEN PAVEMENTS
HAVE FULL HEIGHT STANDARD CURBS.

DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS
R.W. LINN-CITY ENGINEER
FEBRUARY, 1975

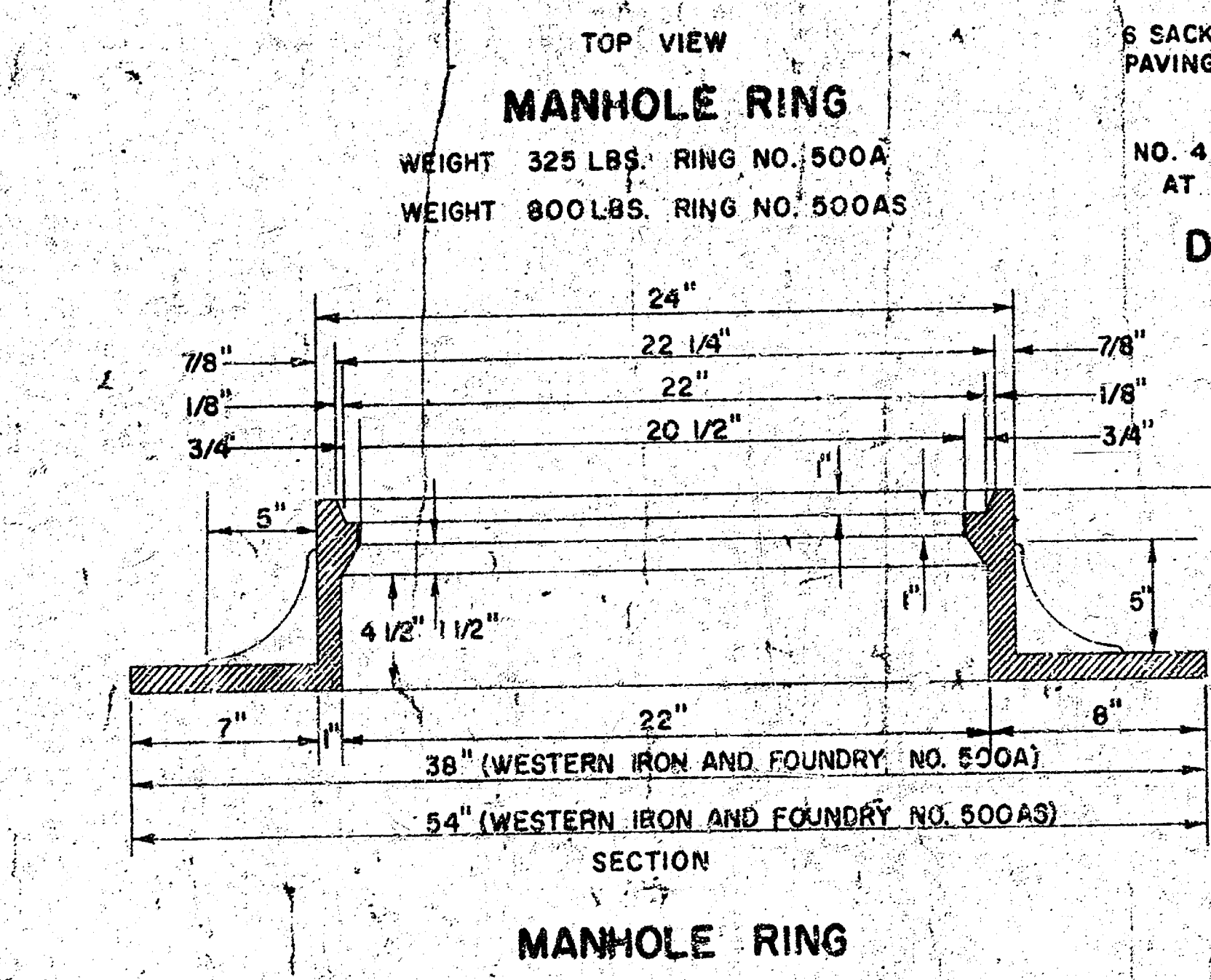
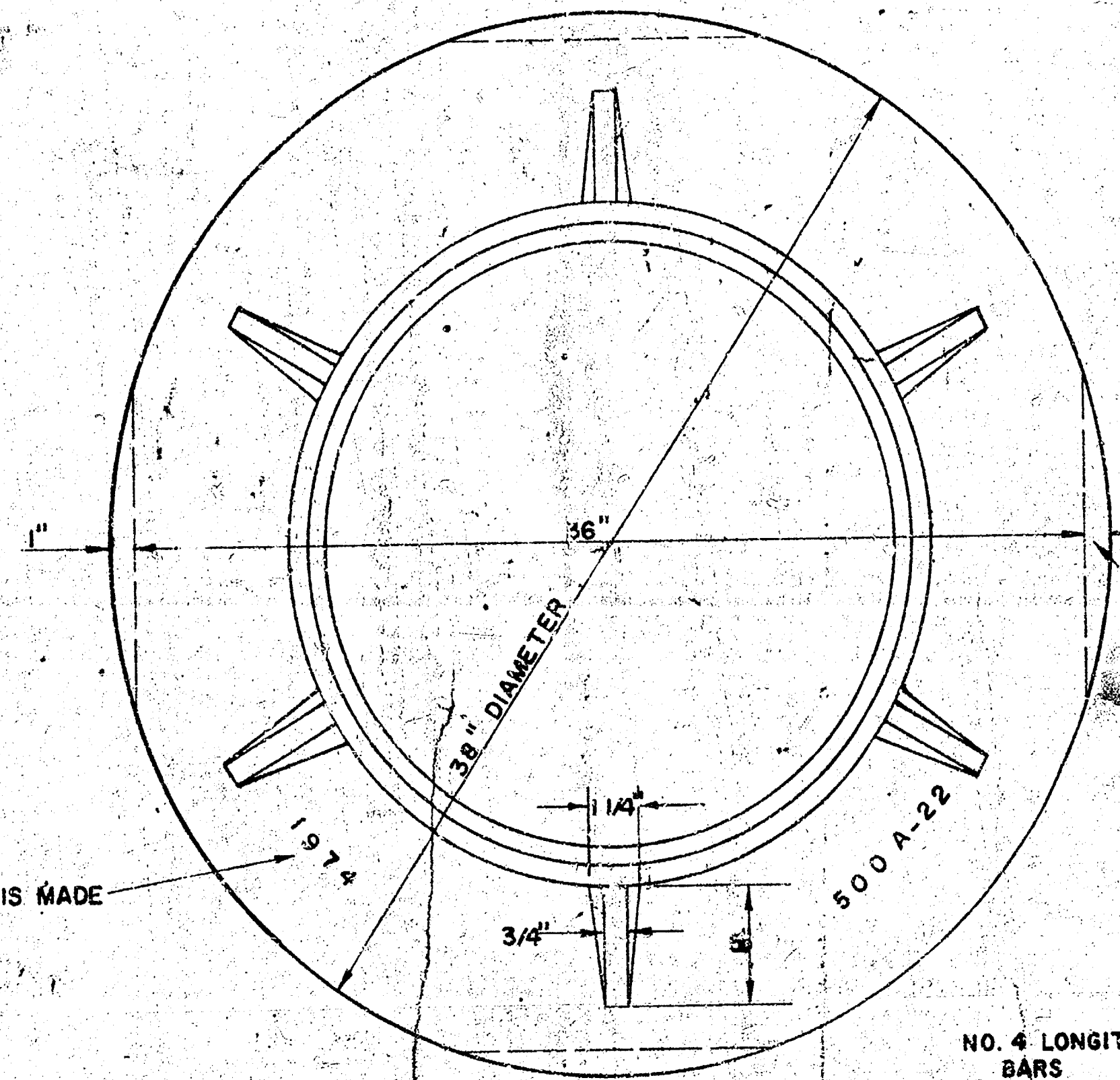
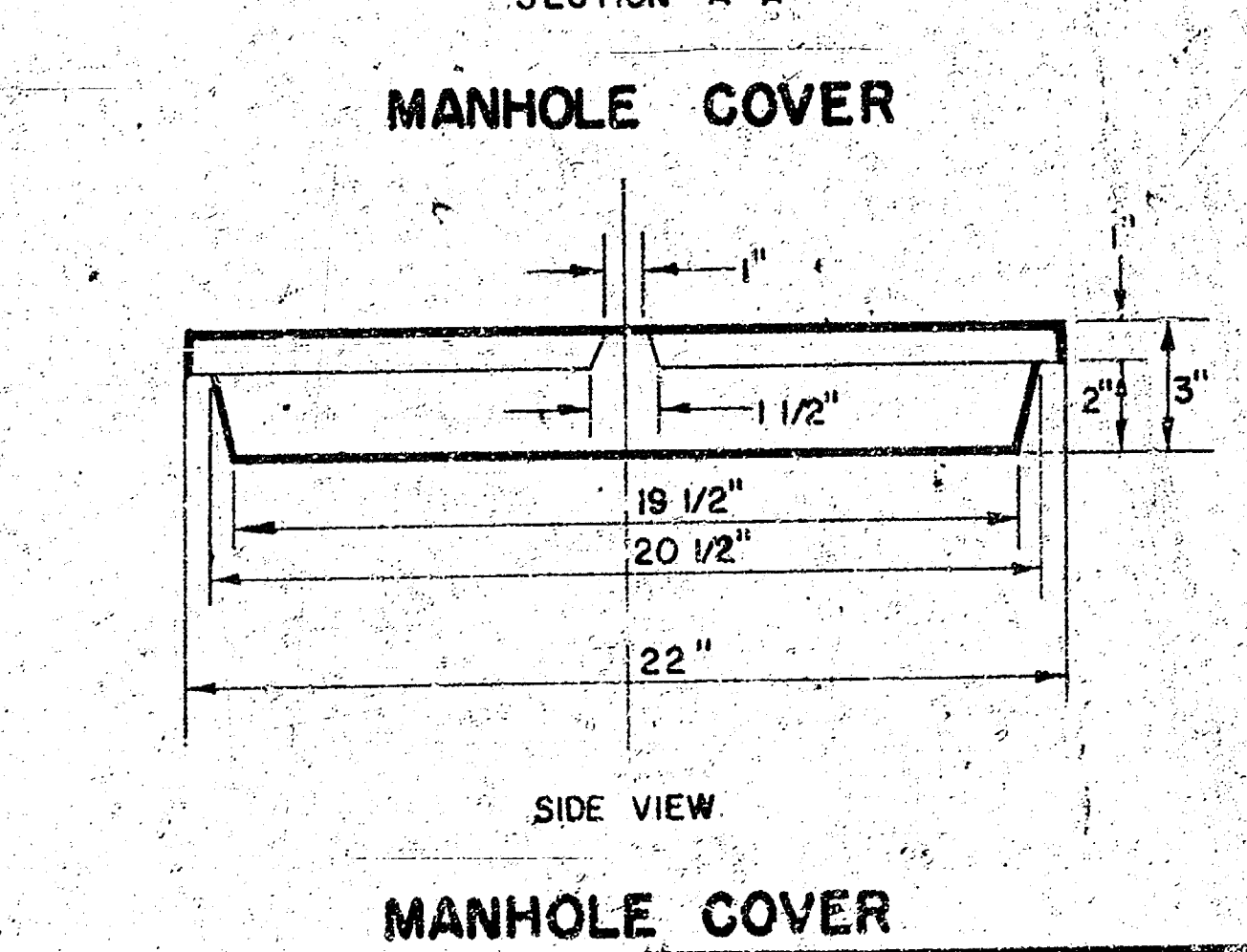
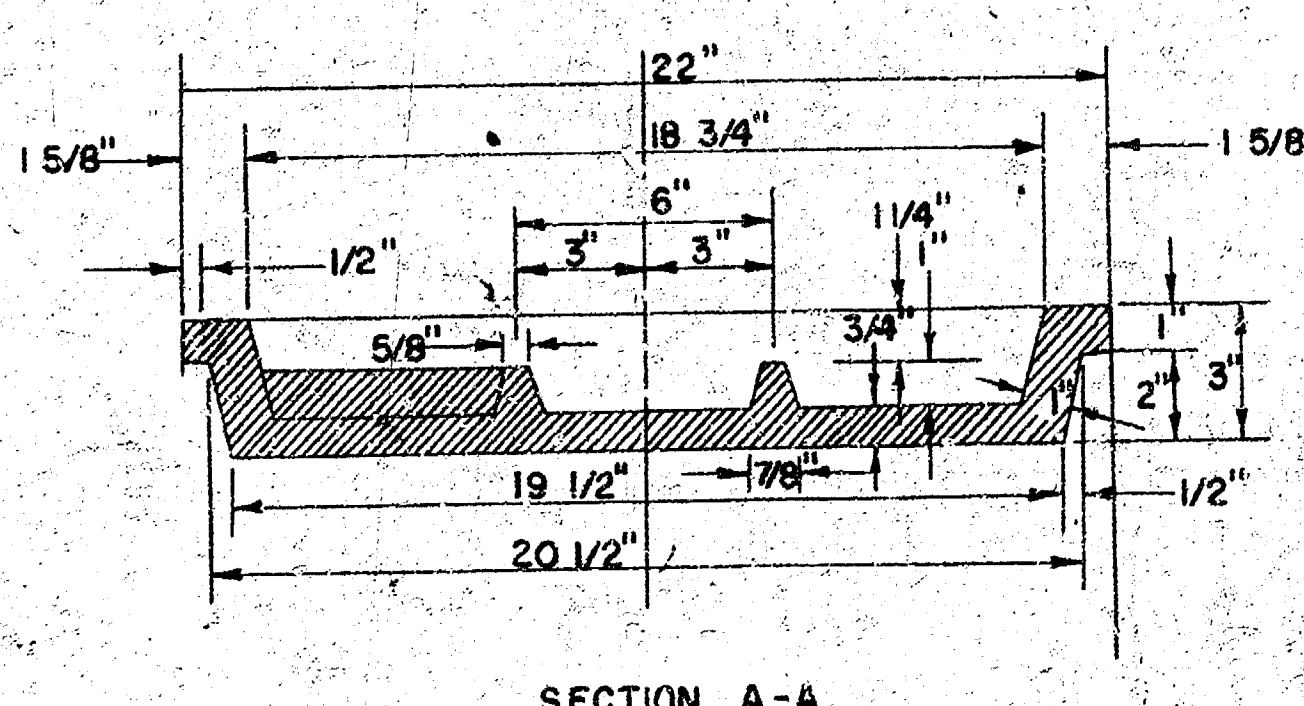
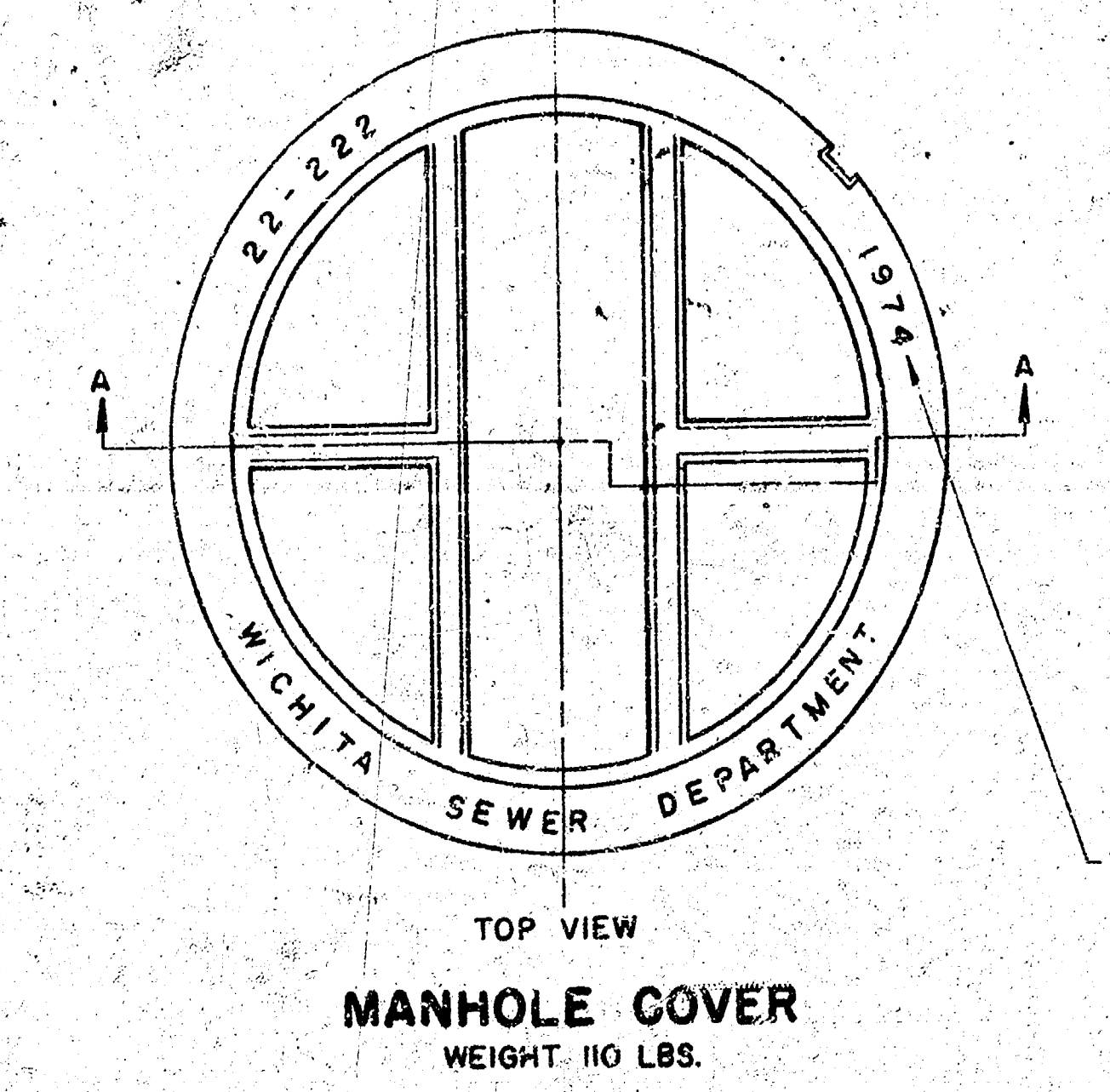


* DRAW - 6' ON 5' DIA. M.H.

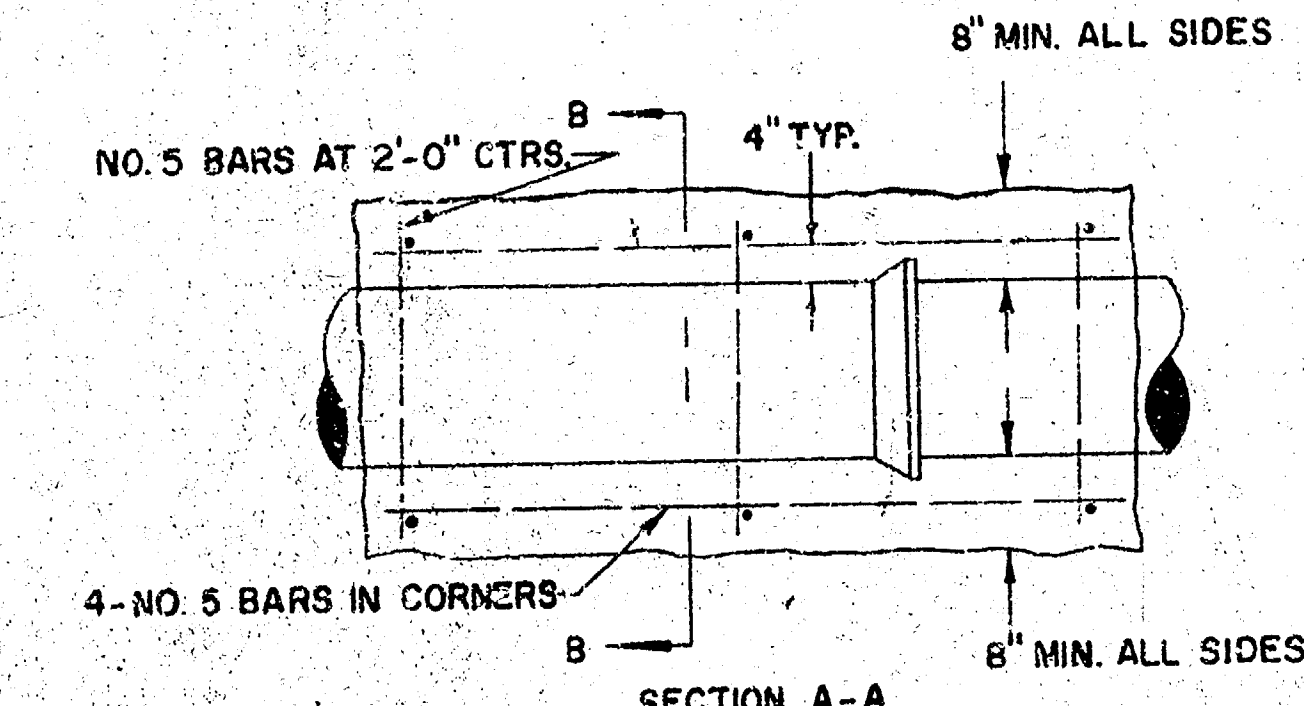


GENERAL NOTES

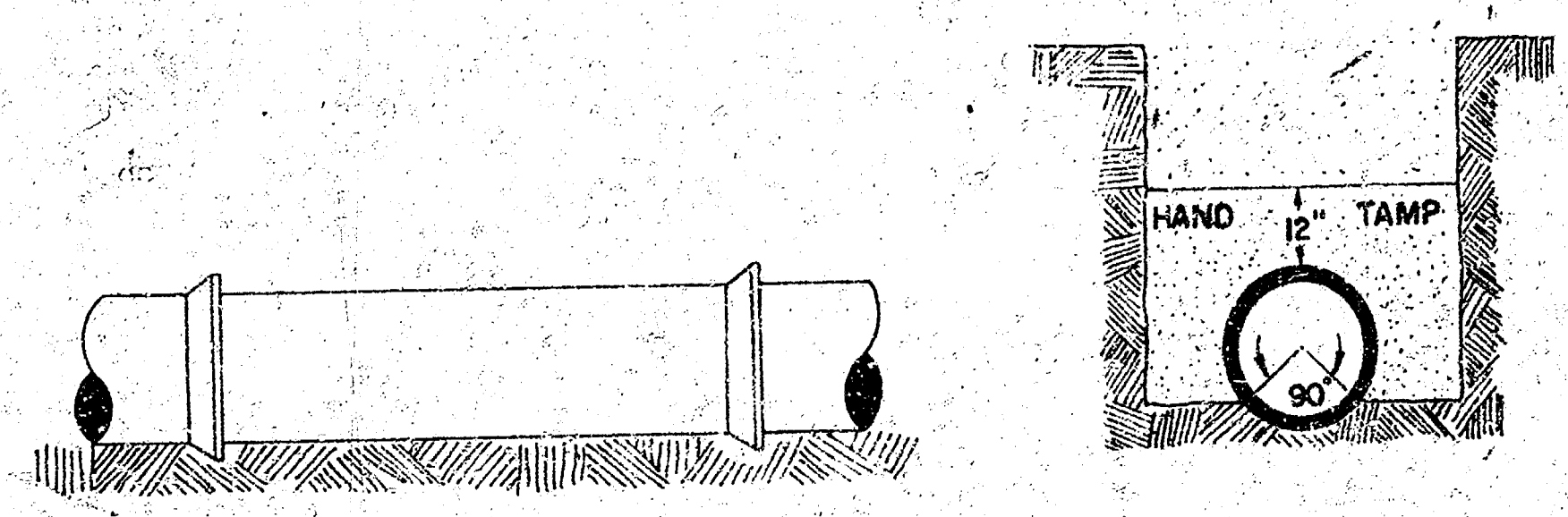
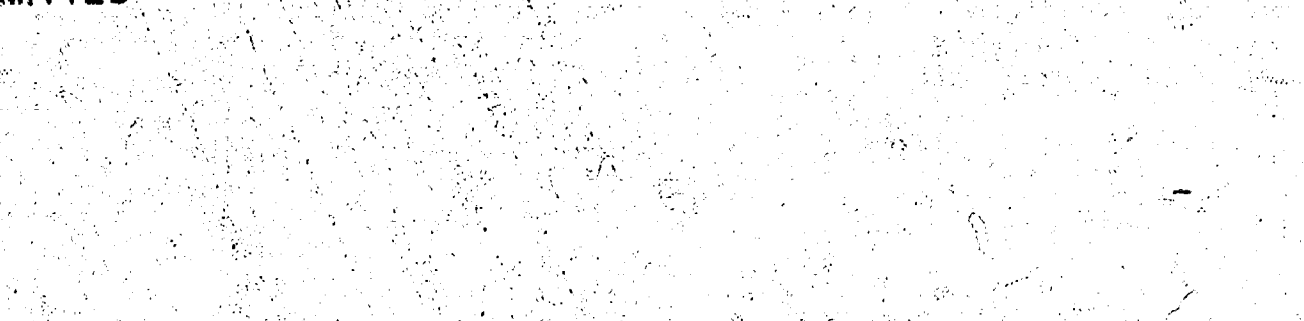
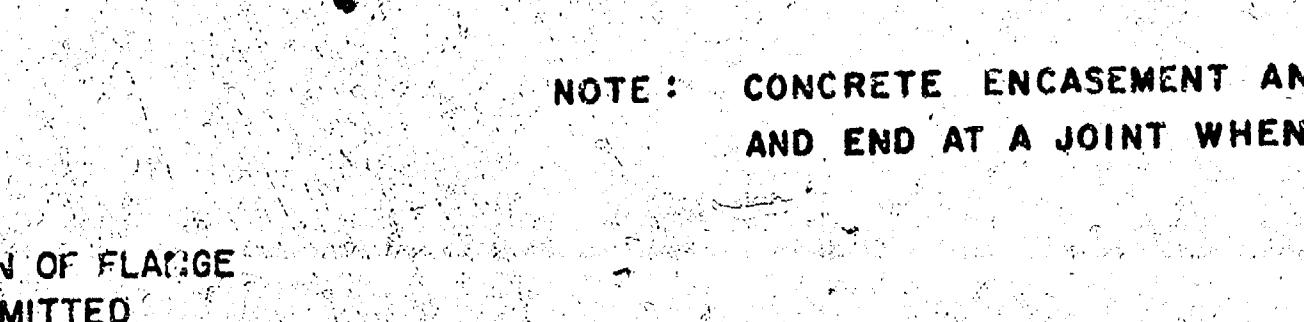
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 9 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE "A" OR TYPE "B" AND STANDARD DROP MANHOLES TYPE "A" OR TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.



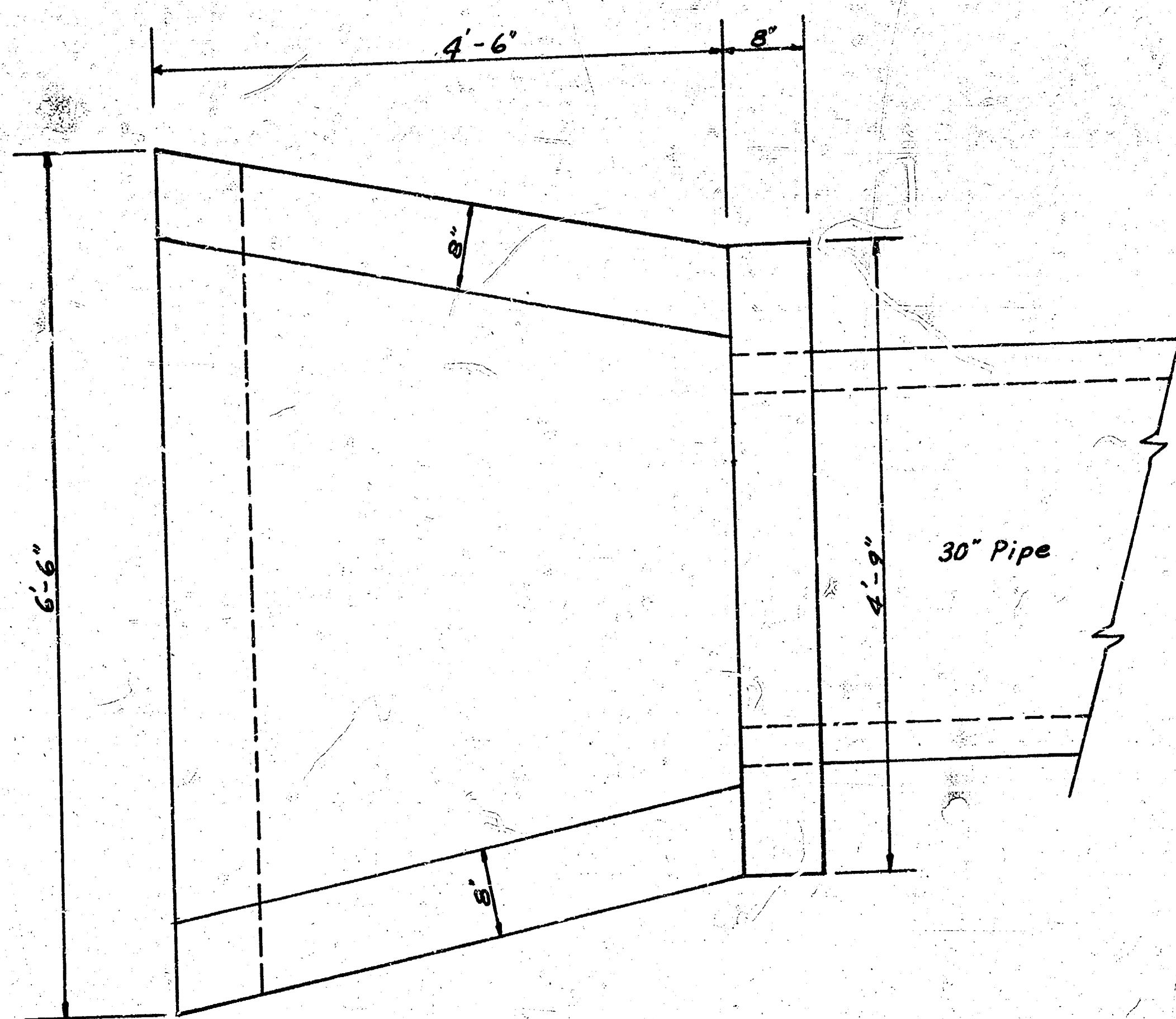
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.



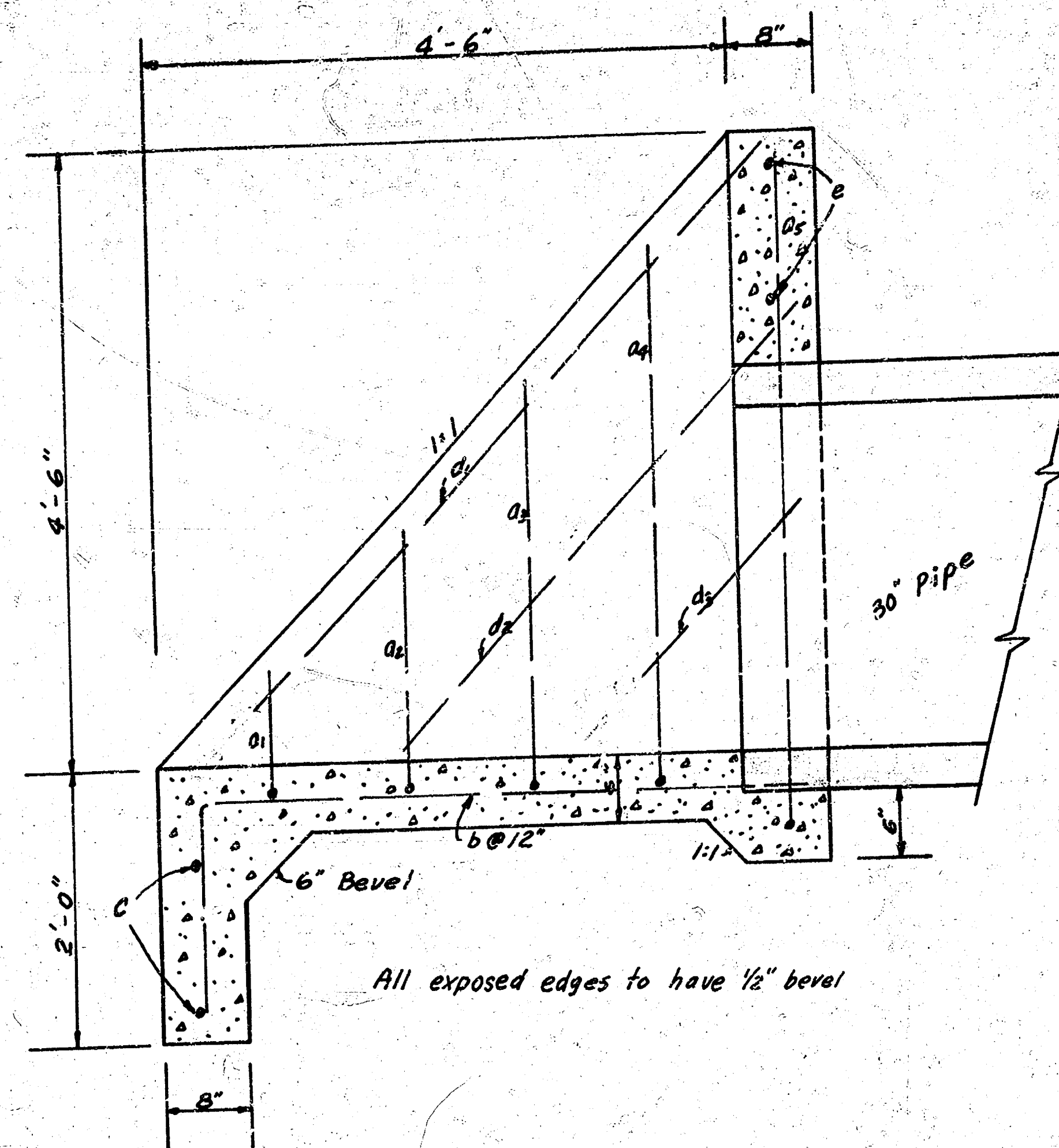
NOTE: CONCRETE ENCASEMENT AND CONCRETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.



REVISED 4-13-77
DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
1974



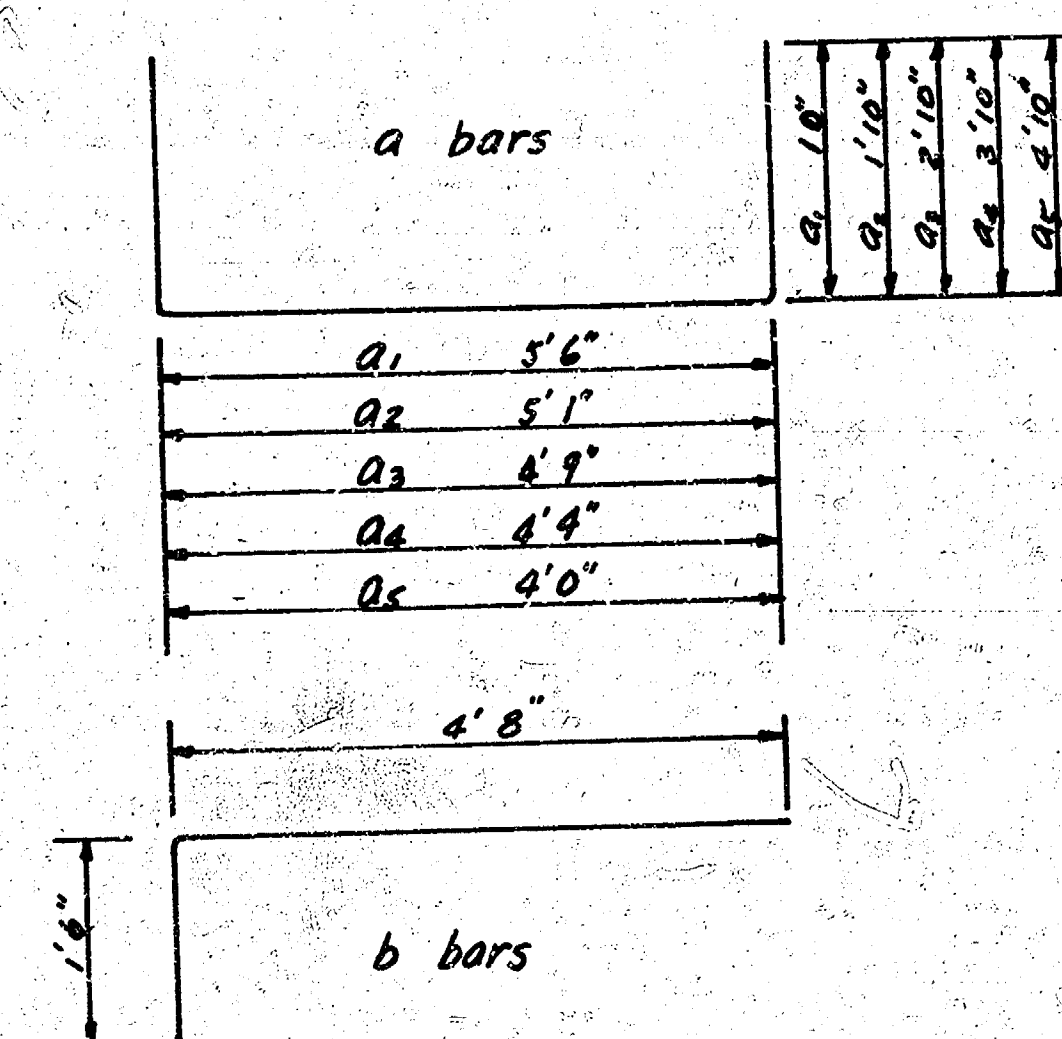
PLAN
Scale: 1" = 1'



SECTION
Scale: 1" = 1'

TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	7'2"		4.79
a ₂	1	8'9"		5.85
a ₃	1	10'5"		6.96
a ₄	1	12'0"		8.02
a ₅	1	13'8"		9.13
b	6	6'2"		24.72
c	2	6'0"		8.02
d ₁	2	5'8"		7.57
d ₂	2	4'6"		6.01
d ₃	2	1'9"		2.39
e	2	4'5"		5.90
Total Rebar, lbs				8931
Concrete, CY				1.64

All Rebars to be #4



DETAILS OF HEADWALL STRUCTURE
CITY OF WICHITA, KANSAS
DRAINAGE IN CONNECTION WITH PAVING HARRY STREET