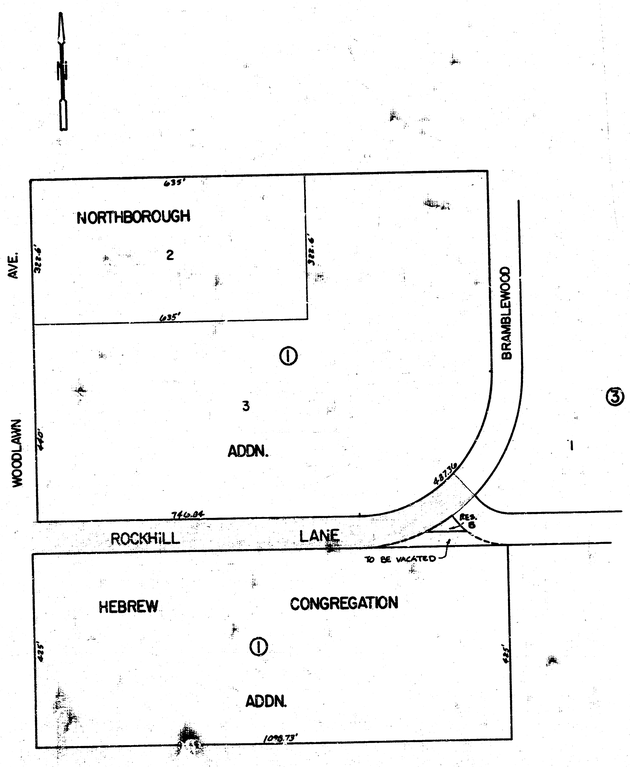
ROCKHILL LANE

E. L. WOODLAWN TO S. L. LT. 1, BLK. 3 NORTHBOROUGH ADDN.



GENERAL NOTES:

(1) NO MORE THAN 15-30 FOOT DRIVES ARE TO BE CONSTRUCTED WITHIN THIS PROJECT.

(2) EARTHWORK TO MEET EXISTING GROUND ELEVATION AT RIGHT-OF-WAY LINE, UNLESS OTHERWISE NOTED ON THE PLAN WITH A NEW ELEVATION. IF A NEW ELEVATION IS SHOWN, THE EARTHWORK SHALL EXTEND ONE FOOT BEYOND RIGHT OF WAY LINE, THENCE UP OR DOWN ON A 1:1 SLOPE TO THE EXISTING GROUND SURFACE.

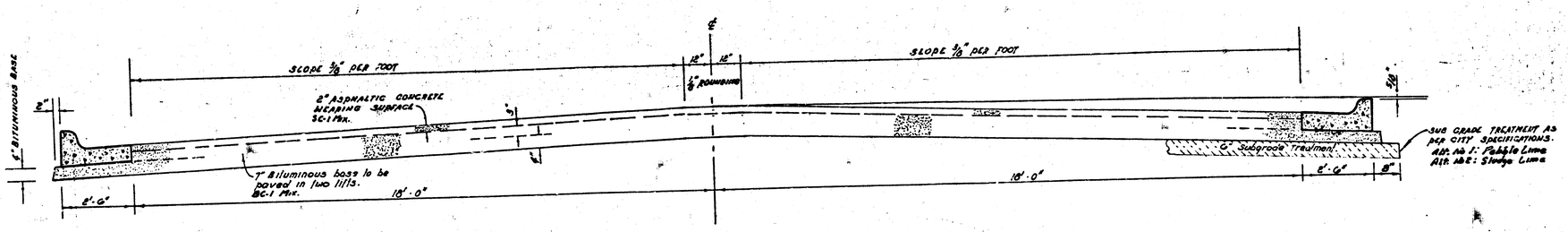
(3) CONTRACTOR TO BID ONLY ONE SUB-GRADE TREATMENT ALTERNATE. ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED FOR CONSTRUCTION ON THIS PROJECT.

DONALD E. SCHNEIDER LICENSED 6311 KANSAS PROFESSIONAL ENGINEER

PROJECT DESCRIPTION		
PROJECT NUMBER 472 76 245 80577 000 090 001		
BOOK NO. 71A/72&20	APPROVED BY	DATE
DRAWN BY RJ+J		REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING		
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUDEMAN		SCALE 1/8

ROCKHILL LN.

E. L. WOODLAWN TO S. L. LT. 1, BLK. 3
NORTHBOROUGH ADDN.



The A.C. pavement between the comb curb & gutter shall be paid as sq yds 9" A.C. pavement (7" Bituminous base). The Bituminous base under the comb curb & gutter shall be paid as sq yds 9" Bituminous base.

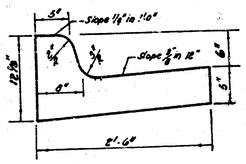
TYPICAL SECTION

41' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

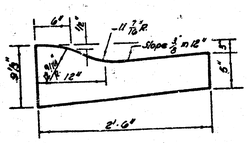
. A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ. YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.

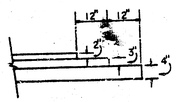
COMBINED CURB & GUTTER



ROLL TYPE CURB & GUTTER



DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

Manipulation = 5,115.0 S.Y.

STEPHEN B. LEARY LICENSED 7766 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA, KANSAS

PROJ. NO. 47 2 76 245 80 257 00 000 0001

2/8

BM = 220.41 ~ R.R. SPIKE SE Fc. PP @ NW COR. WOODLAWN & ROCKHILL.
BM = 207.35 ~ R.R. SPIKE W SIDE HEDGE TREE APPROX. 300' S & 240'N OF NE COR. BRAMBLEWOOD & ROCKHILL.

℄ is ℄ Rockhill Ln.

N

Scale: 1"=20'

P.V.I. 100' V.C. ELEV. 218.36

P.V.T.

65' Continental Pipeline Co. Setback Line

PI 50' V.C El.=209.92

0+00 0+26 0+50 0+76 1+00 1+26 1+50 2+00 2+50 3+00 3+50 4+00 4+50

+0.3200% / 0.3' Wk.Gr.

-2.6049 % / +0.3' Wk.Gr.

WARP WALK GRADE IN 50' +0.5' to +0.7'

-1.1533% / +0.7' Wk.Gr.

PROPOSED WALK AND WHEELCHAIR RAMP BY OTHERS. LEAVE OPENING FOR WHEELCHAIR RAMP.

15' Continental Pipeline Co. Easement

20' Continental Pipeline Co. Restricted Easement

BLVD.

5" ASPHALT HOOKUP

Match Exist. Pvmt. Begin Project

POWER POLE REMOVED BY "OTHERS"

SAW & REMOVE CURB, 10'±

CONSTRUCT ASPHALT CURBING: COST INCIDENTAL TO 5" ASPHALT HOOKUP

Begin Full Crown

½ Crown

ROCKHILL

LN.

9" Asph. Conc. Pvmt. (1" Bit. Base)

Proposed 8" Water

Const. Std. Conc. Cb. & Gtr. (1)/12

Const. Std. Conc. Cb. & Gtr. /12

WOODLAWN

0+37 H.P.

0-10 0+14

+0.3' Wk. Gr. +0.3200 %

+0.3' Wk. Gr. -2.6049 %

+0.7' Wk. Gr. -1.1533 %

WARP WALK GRADE IN 50' +0.3' to +0.7'

P.V.I. 100' V.C. ELEV. 218.36

P.V.T.

PI 50' V.C El.=209.92

INTERSECTION QUANTITIES

____	S.Y. ____" Concrete Pavement
31.1	S.Y. 7 " Asphaltic Conc. Pavement (7 " Bituminous Base)
3.7	S.Y. ____" Bituminous Base
12.5	L.F. Combined Curb & Gutter
____	L.F. Integral Curb
____	S.F. 4" Wheelchair Ramp
____	S.F. 4" Walk
____	C.Y. Excavation
____	C.Y. Compacted Fill
____	Lbs. Reinforcing Steel
____	S.Y. Manipulation
____	Tons Lime or Cement
____	S.Y. V.G. ____" Concrete & ____" Asphaltic Concrete Base

EARTHWORK

	PROP. EXCAVATION	CITY EXCAVATION
X-SECTION	1,982.6	140.7
10%	193.3	14.1
TOTAL	2,175.9	154.8

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

CAUTION UNDERGROUND UTILITIES
Please check with Kansas Gas & Electric Co., Southwestern Bell Telephone Co. for Location

Survey Arrow Plat Key Exc. Checking

Br 22.11.20

ROCKHILL LN.
E.L. WOODLAWN TO S.L. I.T.I, BLK 3 NORTHBOROUGH ADDN.
472 76 245 80577 000 000 001

3/8

INTERSECTION QUANTITIES

____ S.Y. ____" Concrete Pavement	
286.0 S.Y. 9 " Asphaltic Conc. Pavement (7 " Bituminous Base)	
23.3 S.Y. 6 " Bituminous Base	
59.2 L.F. Combined Curb & Gutter	
____ L.F. Integral Curb	
____ S.F. 4" Wheelchair Ramp	
____ S.F. 4" Walk	
____ C.Y. Excavation	
____ C.Y. Compacted Fill	
____ Lbs. Reinforcing Steel	
312.6 S.Y. Manipulation	
____ Tons Lime or Cement	
____ S.Y. V.G. ____" Concrete & ____" Asphaltic Concrete Base	

N

Scale: 1"=20'

65' Continental Pipeline Co. Setback Line.

4+50 5+00 5+50 6+00 6+50 7+00 7+46.84 PC 7+75 8+00 8+25 8+50 8+75 9+00 9+40.16 9+52 9+83.82 10+15.68

PI NO VC El. = 205.92

PI 58.95' VC El. = 204.56

-1.1533 %
+0.7' Wk. Gr.

WARP WALK GRADE IN 46B
+0.7' TO +0.3'

+0.1091 %
-0.3' Wk. Gr.

15' Continental Pipeline Co. Easement.

20' Continental Pipeline Co. Restricted Easement.

15' of 8" Clay Sewer Pipe w/Plug Installed By "Others". USFL 199.30 DSFL 199.26

6' Dia. M.H. 9.4' Deep To Be Removed By "Others".

Const. Std. Comb. Cb. & Gtr.

ROCKHILL LN.

4" Asph. Conc. Prmt. (7" B.T. Base)

Proposed 8" Water

Const. Std. Comb. Cb. & Gtr.

+0.7' Wk. Gr.
-1.1533 %

WARP WALK GRADE IN 46B
+0.7' TO +0.3'

PI NO VC EL = 205.92

+0.3' Wk. Gr.
-0.2430 %

Const. Flume of 4" Bituminous Base Material with Asph. Curb. To be paid as S.Y. 4" Bituminous Base. Curb to be incidental.

Const. Inlet & Lead. See Sh. 7.

End & Limit of 8" Sanitary Sewer & Manhole

Const. Inlet & Lead. See Sh. 7.

BRAMBLEWOOD

End Proj. Sta. 10+27.22 Match Exist. Saw & Remove As Required. Removal To Be Incidental To Proj.

Barricade by "Others"

Full Crown Constr. Limits

ROCKHILL LN.

9+52 9+83.82 10+15.68 10+27.22 9+51.82

46.33'	345.72'	148.74'	280.93'	273.27'

CURVE DATA ALONG ℄ — 25°16'.65"

STA.		δ N.	δ S.		
7+46.84 PC	—	—	—	—	0°00'00"
7+75	28.16'	25.87'	30°43'	2°20'00"	2°20'00"
8+00	25'	22.97'	27.02'	2°04'18"	4°24'18"
8+25	"	"	"	"	6°28'36"
8+50	"	"	"	"	8°32'54"
8+75	"	"	"	"	10°37'12"
9+00	25'	22.97'	27.02'	2°04'18"	12°41'29"
9+20.16	20.16'	18.52'	21.77'	1°40'16"	14°21'45"
9+40.16	19.96'	18.30'	21.53'	1°39'05"	16°00'46"
9+52	11.92'	10.95'	—	0°54'16"	16°55'02"
9+83.82	31.82'	29.23'	—	2°26'15"	19°21'16"
10+15.68	31.83'	29.24'	—	2°26'15"	21°47'31"
10+27.22	12.12'	11.14'	44.56'	1°00'16"	22°16'.65"

Defl./Ft. = 4.971879 Min.

ROCKHILL LN.
E. L. WOODLAWN TO S. L. LT. 1, BLK. 3
NORTHBOROUGH ADDN.
472 76 245 80577 000 000 001

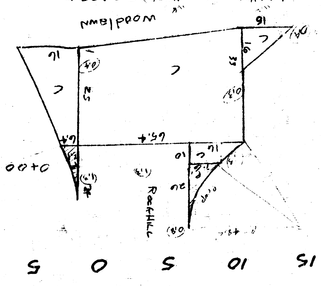
4/8

ROCKHILL LN.
E. L. WOODLAWN TO S. L. LT. 1, BLK. 3
NORTHBOROUGH ADDN.
412 76 245 805770000000001

REVISED 11-05-82

5/8

SHEET TOTALS:
PROPERTY EXCAVATION = 1,609.4 cy
CITY EXCAVATION = 80.0 cy



$A = (.5 \times 16 \times 16) + (6.4 \times \frac{125}{2}) + (25 \times \frac{64+16}{2}) + (10 \times \frac{16+16}{2}) = 2,422.0$

$Avg\ D = \frac{4+4+4+11.4+3.4+1.4+11.4+0.8}{9} = 6.8'$

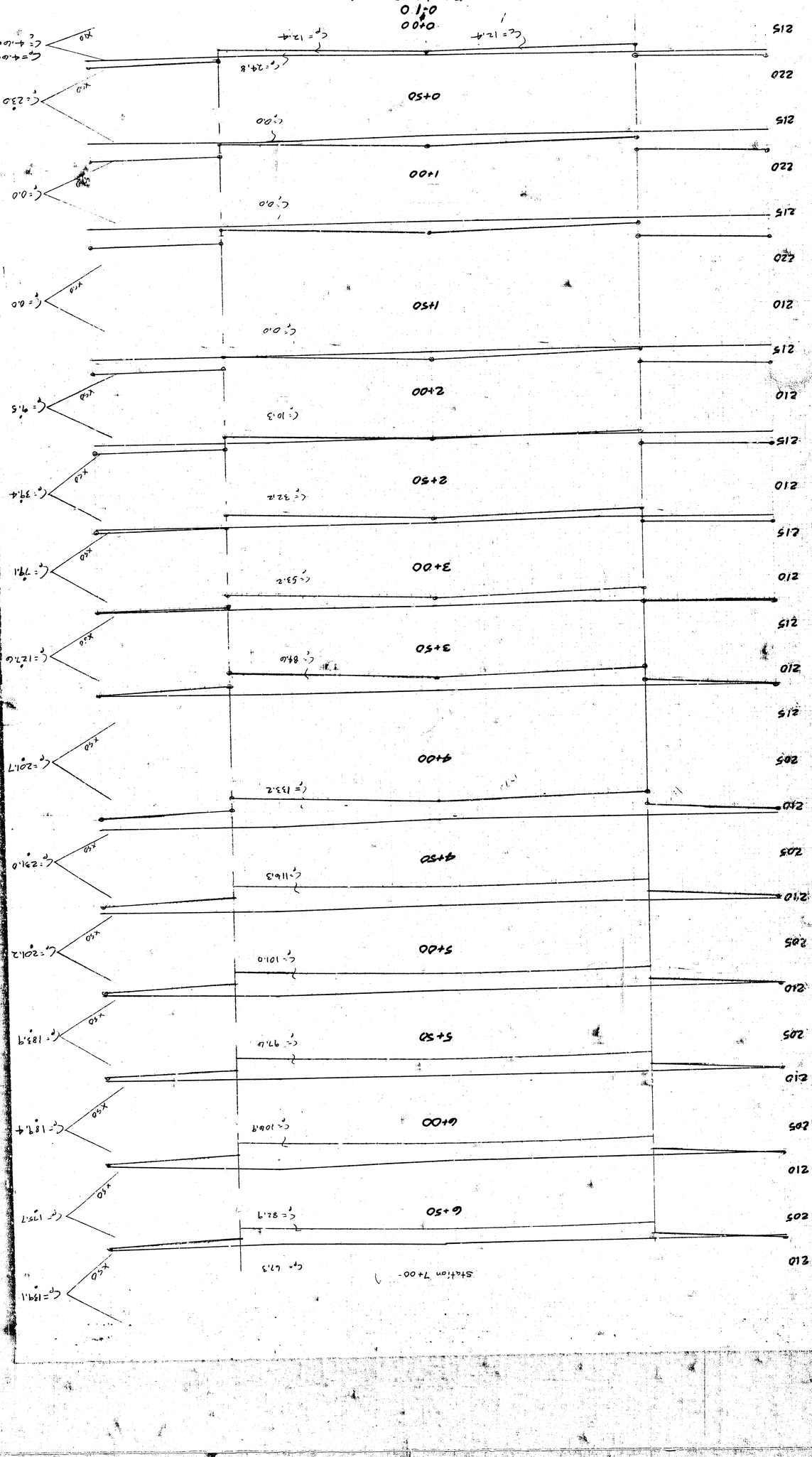
$Vol = \frac{2,422.0 \times 6.8'}{27} = 759.4\ cu.yd.$

TOTALS
PROP. EXCAV. = 1,929.0 cy
CITY EXCAV. = 140.7 cy

$Prop. (.5 \times 7\frac{1}{2} \times 20) + (.5 \times 2 \times 20 \times 2) = 175.0$

$D = \frac{1.5+1.5+.5}{3} = 1.1$

$Vol\ P = \frac{175 \times 1.1}{27} = 7.2\ cy$



ROCKHILL, LN.
E.L. WOODLAWN TO S.L.T.L, BLK.3
NORTHBOROUGH ADDN.
472 ℔ 24# 80677 0000001

REVISED 11-05-68

9/8

(9)

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

SHEET TOTALS:
PROFFERTY EXCAVATION = 327.2 cy
CITY EXCAVATION = 60.7 cy

7+00

200
205
210

c = 60.3

P = 107.4

7+46.65
PC

c = 58.8

8+00

c = 35.7

P = 93.0

8+50

c = 13.4

P = 45.5

9+00

c = 60.7

P = 18.0

9+40.1

c = 18.0

P = 18.3

9+ 51.13
S.L. Rockhill E.

c = 17.6

P = 7.8

D = 1.0

c = 38.0

10+27.11
End

c = 17.6

D = 0.5

c = 20.0

c = 20.6

P = 45.3

10+15.63
N.L. Rockhill E.

c = 10.0

c = 5.8 cy

c = 20.0

c = 20.0

P = 18.7

10+06.62
N. Bahnd N. cb.

c = 11.4 cy

c = 10.8

P = 11.9

9+83.62
E Rockhill E.

c = 9.9 cy

c = 12.4 cy

c = 17.4

P = 12.5

D = 0.0

c = 7.4

c = 8.8

P = 8.8

9+61.83
N. Bahnd S. cb.

c = 3.5 cy

c = 8.8

c = 2.9 cy

D = 1.1

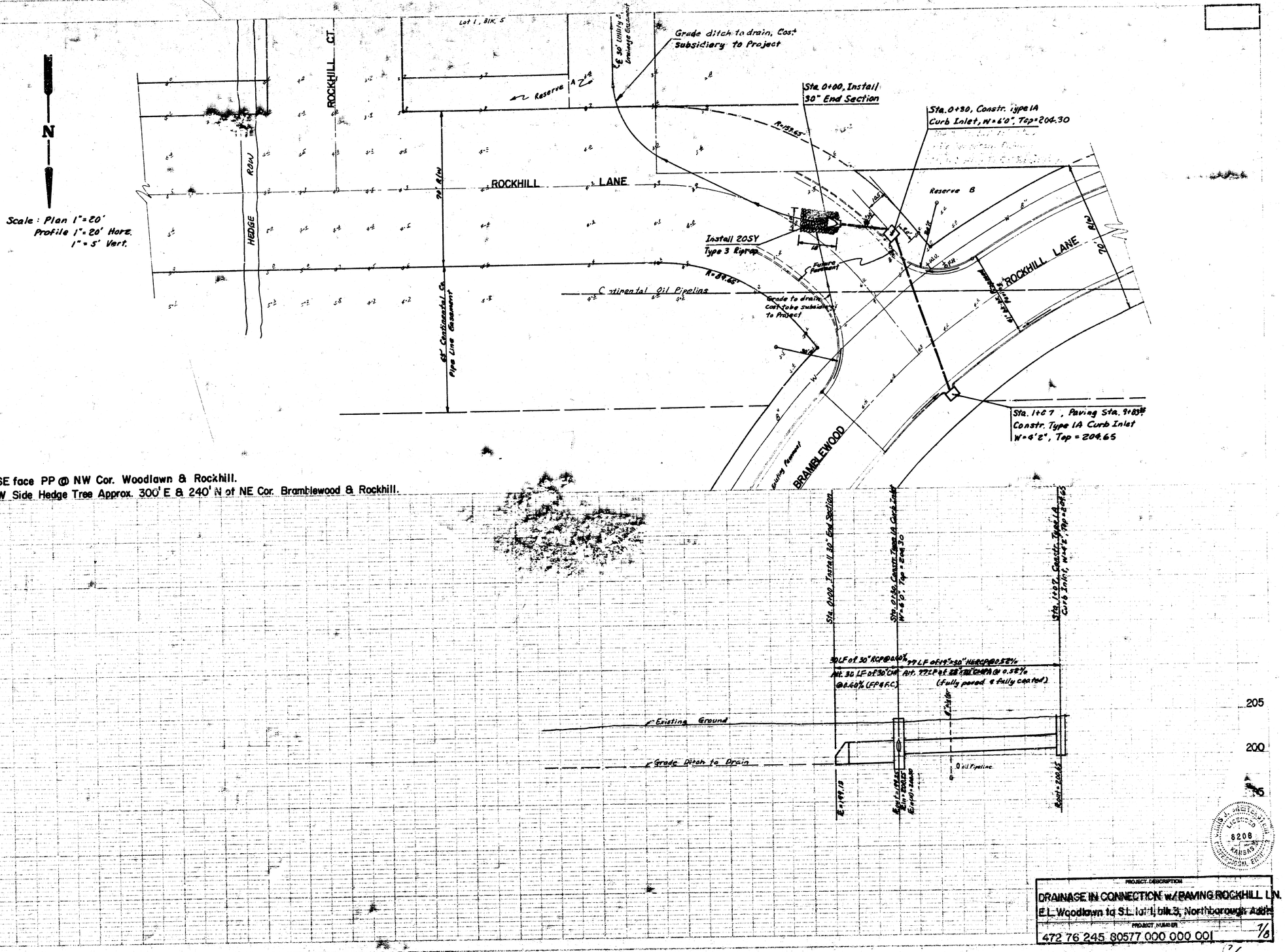
Avg. D = 0.4+1.4+1.0 = 0.9

Vol = 121.8 x 0.9 = 4.4 c.y.
3

D = 1.0

Avg. D = 1.2+2.4+1.0 = 0.9

Vol = 131.16 x 0.9 = 4.4 c.y.
3



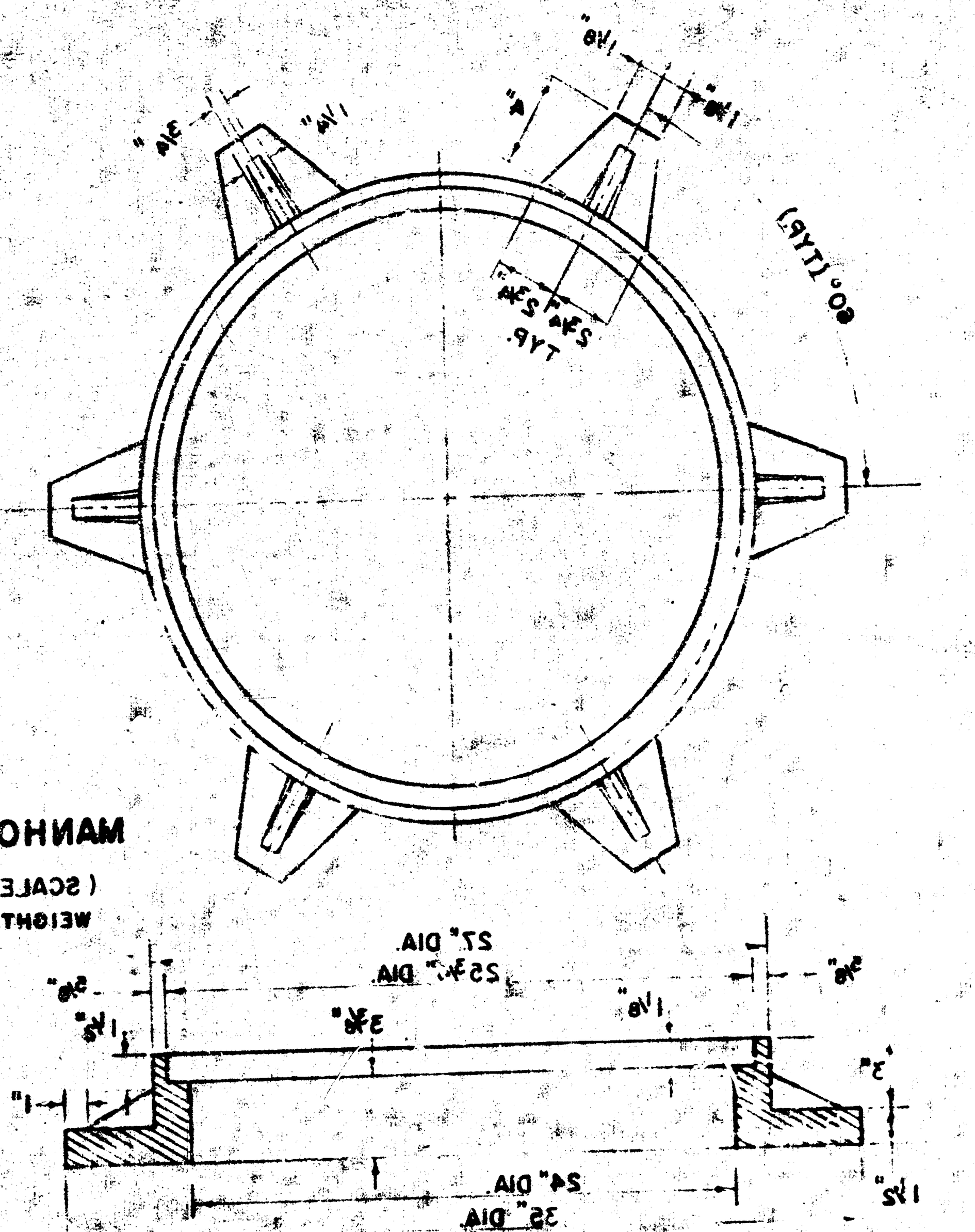
PROJECT DESCRIPTION

DRAINAGE IN CONNECTION w/ PAVING ROCKHILL LN.
E.L. Woodlawn to S.L. lot 1, blk. 5, Northborough Addn.

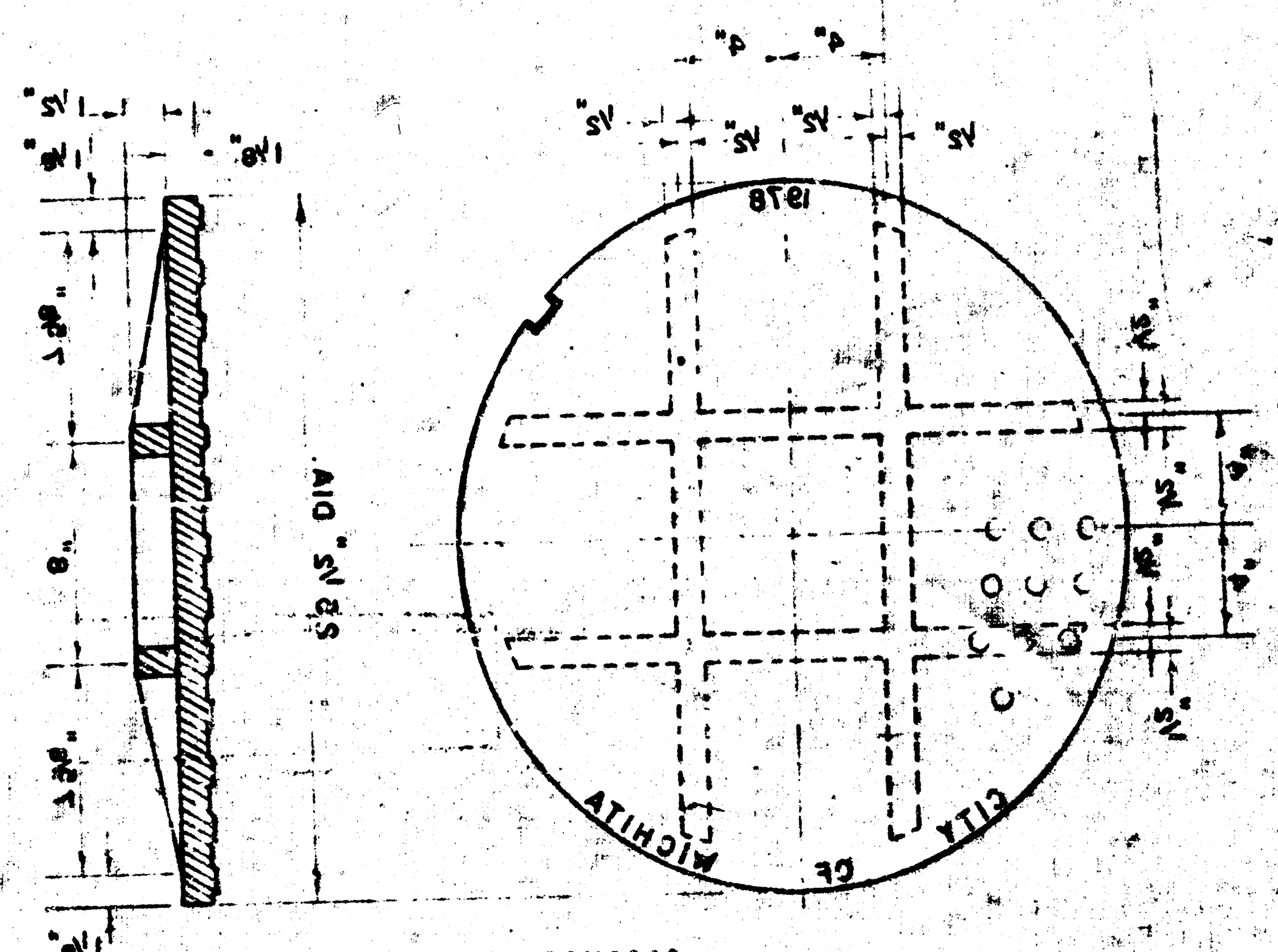
PROJECT NUMBER

472 76 245 80577 000 000 001

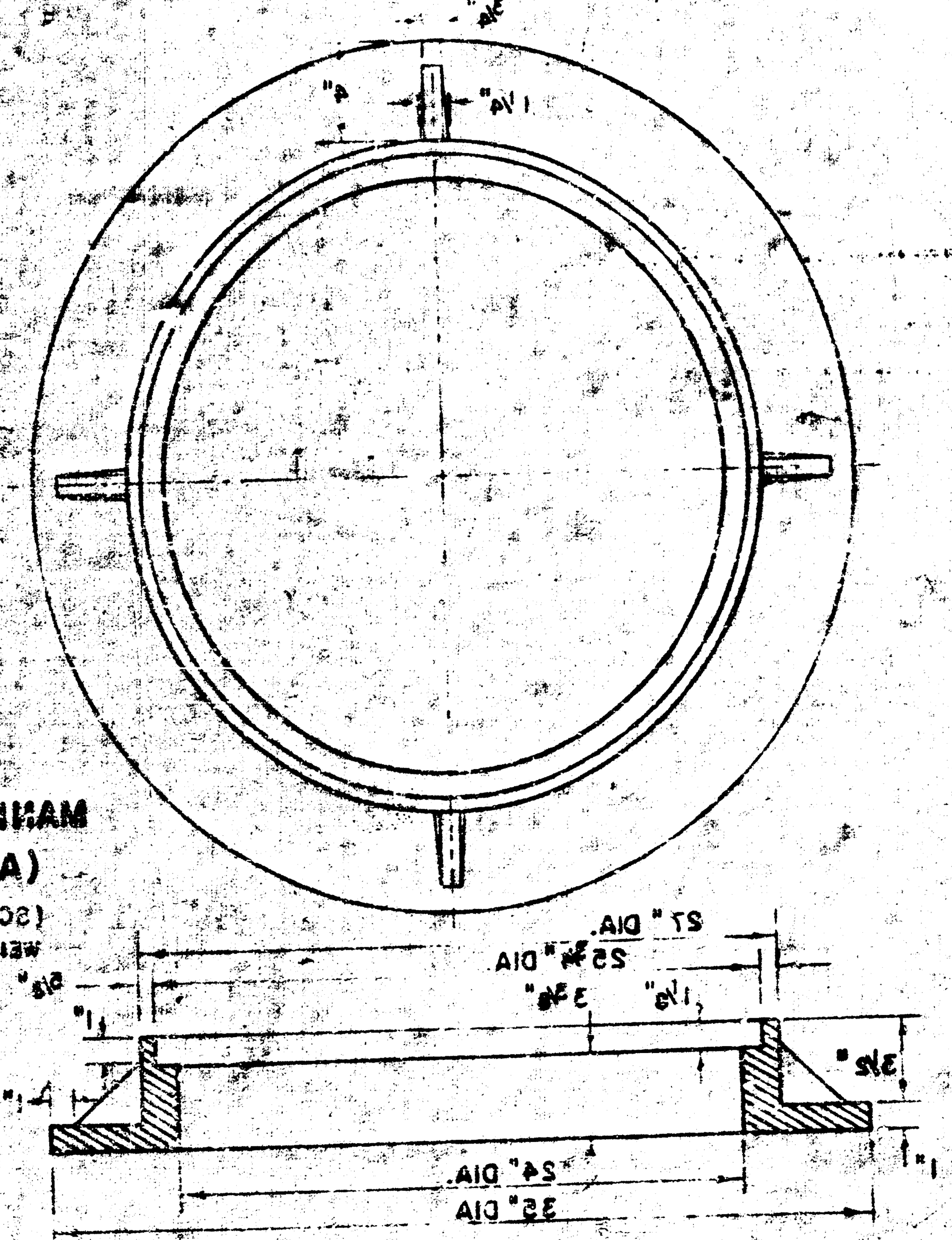
7/8



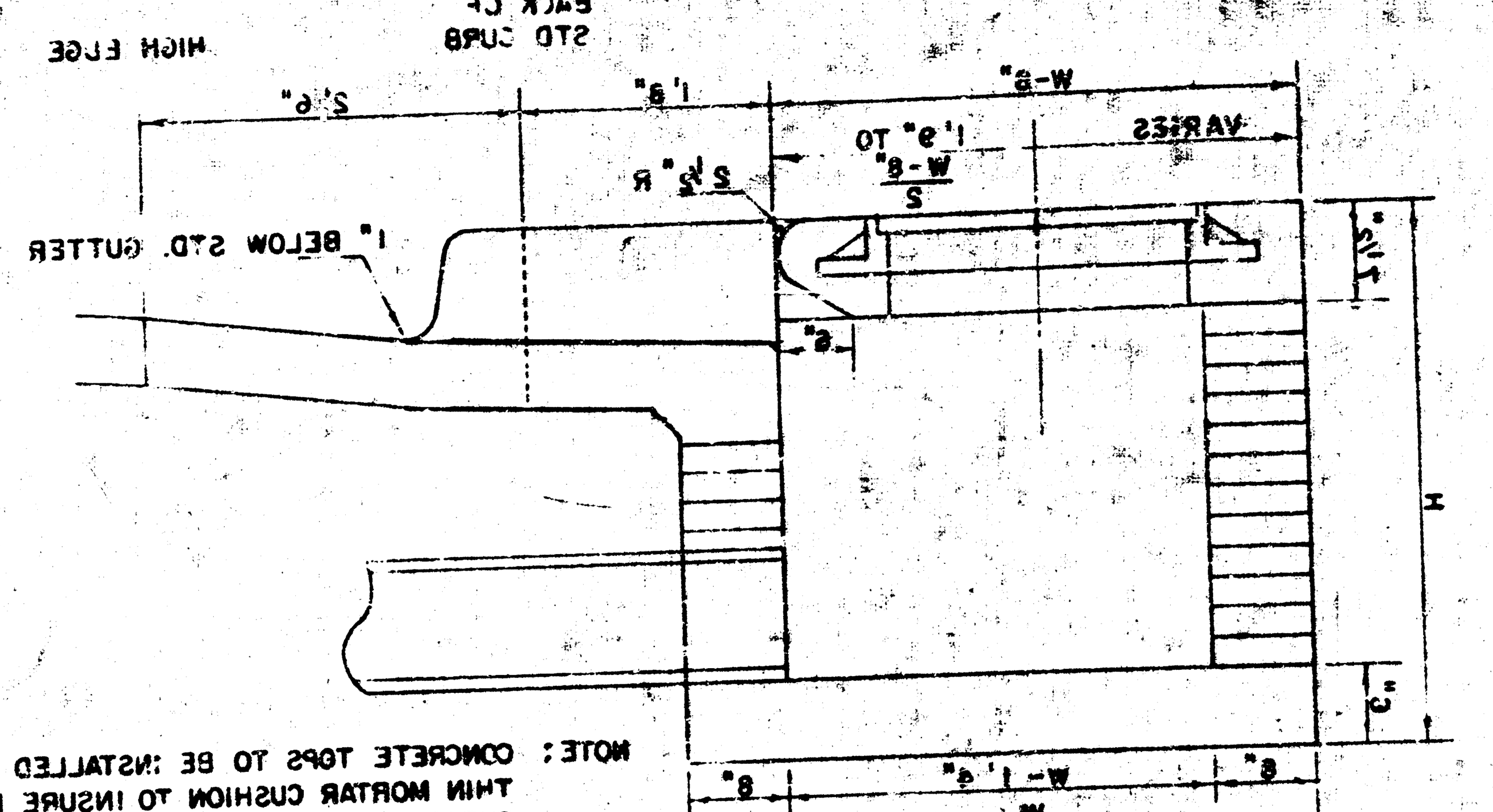
MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.



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

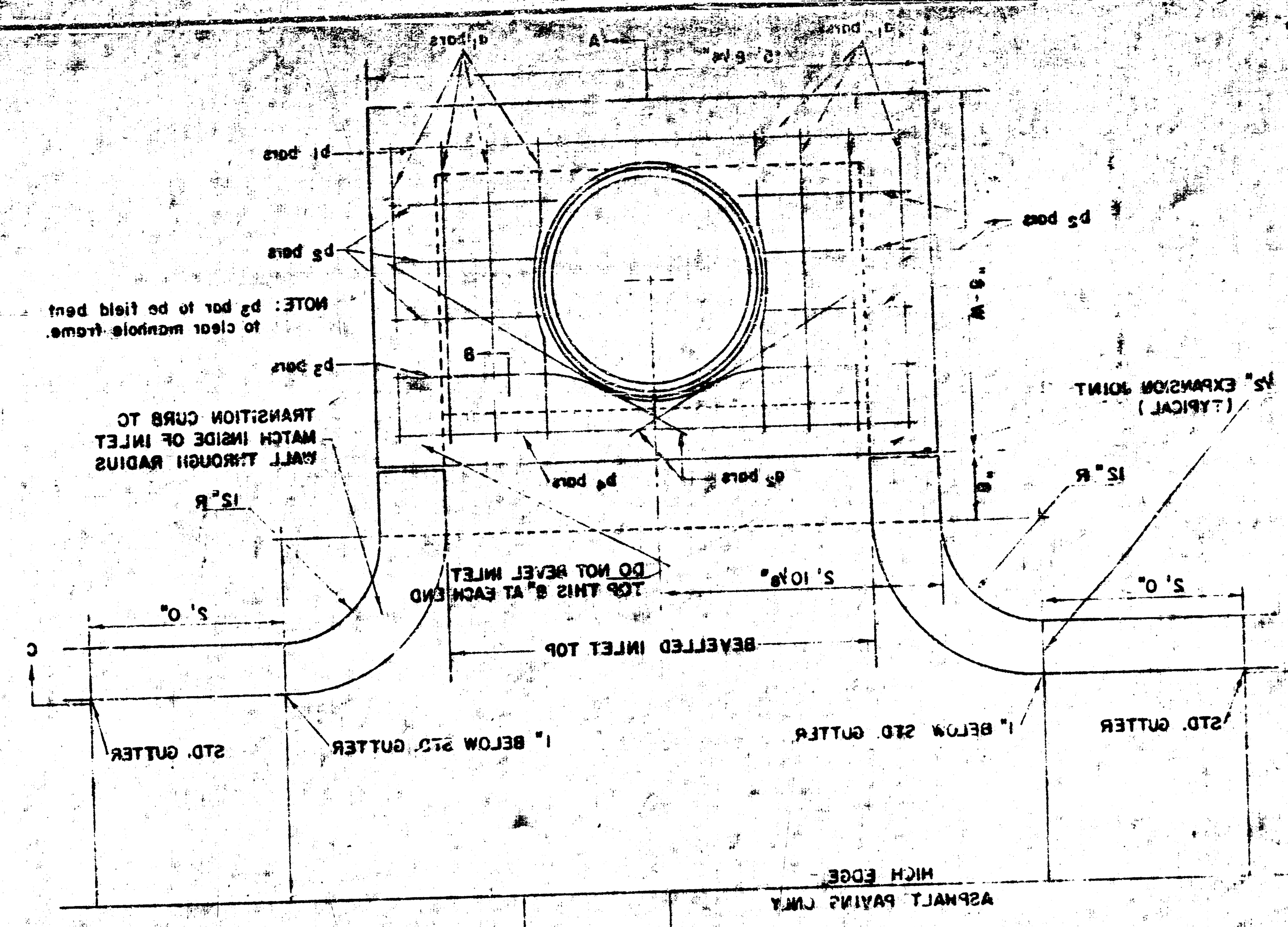


MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.

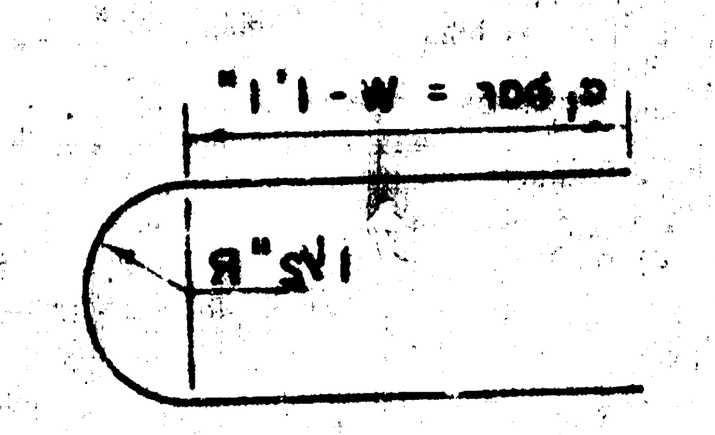


NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE FOR INLET TOPS AND FLOORS SHALL BE STANDARD PAVING MIX.

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



PLAN
(SCALE 1" = 1'0")



BENDING DIAGRAM

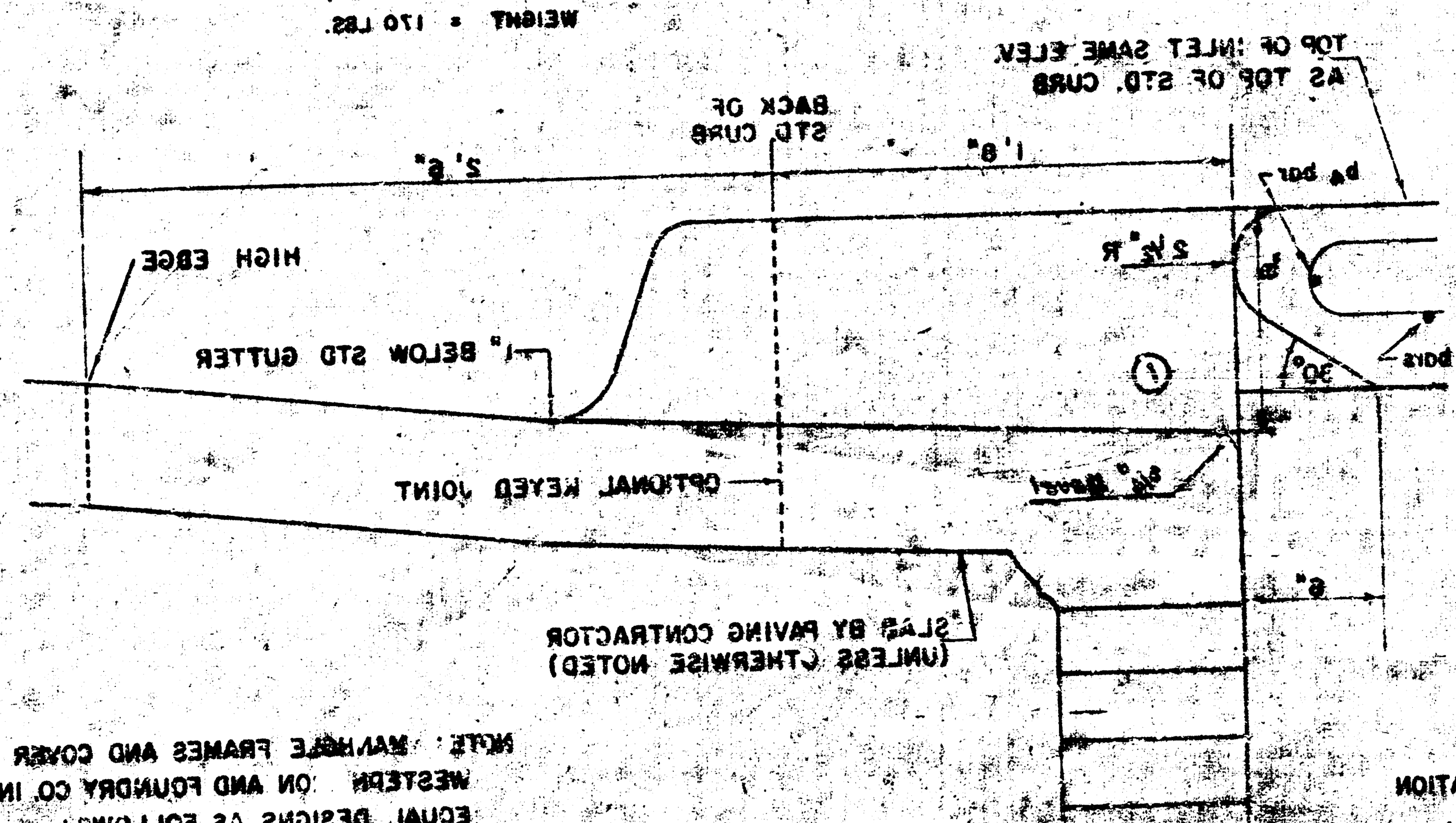
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'2"	3'6"x5'8 1/4"x7 1/2"	21" & SMALLER	0.46 *
5'0"	4'4"x5'8 1/4"x7 1/2"	24" & 30"	0.57 *
6'0"	5'4"x5'8 1/4"x7 1/2"	36" & 42"	0.71 *
7'0"	6'4"x5'8 1/4"x7 1/2"	48" & 54"	0.84 *
8'0"	7'4"x5'8 1/4"x7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME

STEEL SCHEDULE

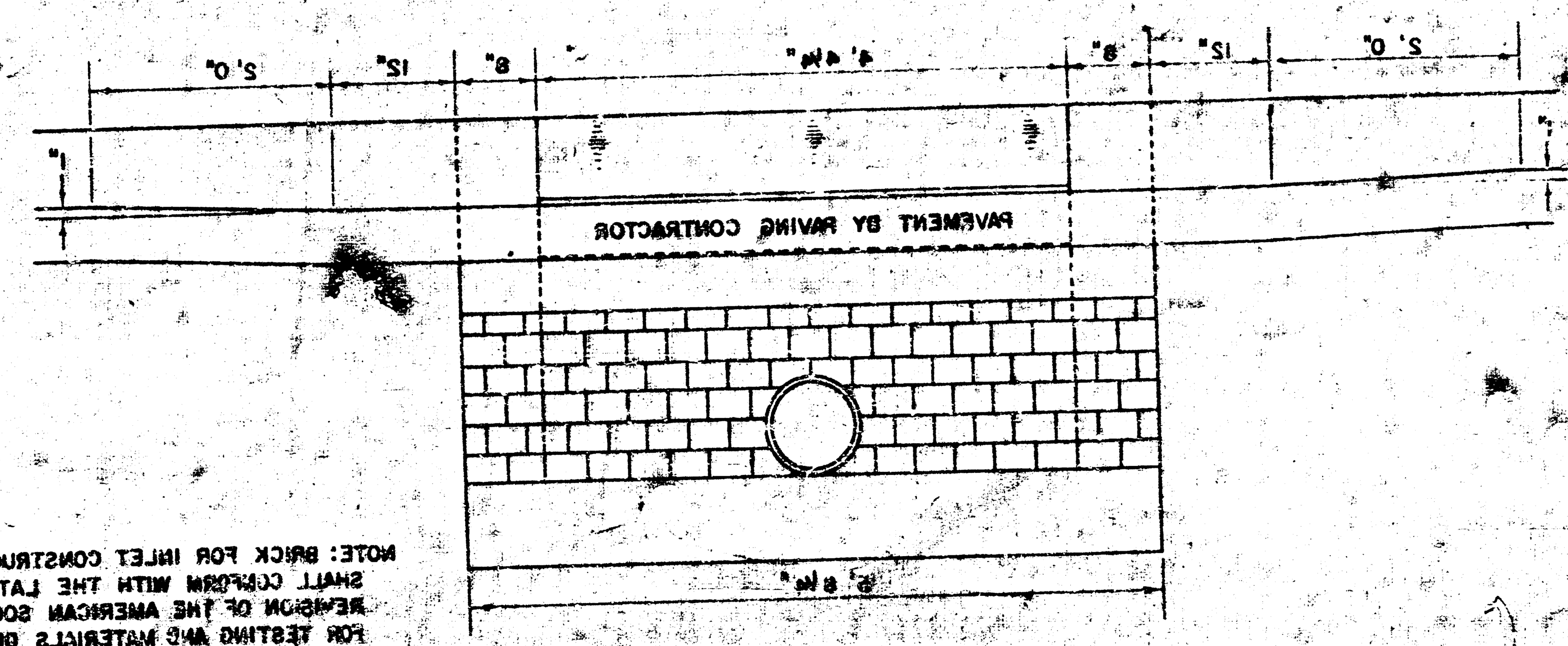
BAR	a1	a2 *	b1 W=4'2"	b1 W=5'0"	b1 W=6'0"	b1 W=7'0"	b1 W=8'0"	b2	b3	b4	WT. LBS.
NUMBER	8	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
W=4'2"	6'5"	5'4"	5'5"	–	–	–	–	1'5"	5'6"	5'5"	60*
W=5'0"	8'1"	4'4"	–	5'5"	–	–	–	1'5"	5'6"	5'5"	77*
W=6'0"	10'1"	5'4"	–	–	6'5"	–	–	1'5"	5'6"	5'5"	97*
W=7'0"	11'1"	6'4"	–	–	–	5'5"	–	1'5"	5'6"	5'5"	111*
W=8'0"	12'1"	7'4"	–	–	–	–	5'5"	1'5"	5'6"	6'5"	124*

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



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 "HOBBY"



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

① Rev. 5-19-81

DETAIL STANDARD TYPE 1A CURB INLET

CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING / CITY ENGINEER
JUNE, 1981

8/8