STORM WATER SEWER NO. 177

RACETTE-RIVEREND ADDITION

GENERAL NOTES

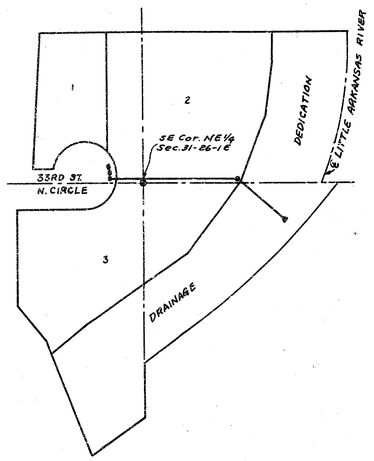
1.) CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.

2.) 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.

3.) 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).

4.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.

5.) 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.



N

1"=100'

Sheet	Index
1	Cover Sheet
2	Plan & Profile
3	Type IA Inlet
4	Type A Manhole

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DISTURBED 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.

R. W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER
CITY OF WICHITA, KANSAS
PROJECT NO. 468 76 245 80887 000 000 001

DATE: _____

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N

Scale Plan: 1" = 20'
Profile: 1" = 20' Horz.
1" = 5' Vert.

B.M. 130.87 N.W. Cor. First Step, House No. 1125 W 33rd. St. N.

B.M. 131.36 City Std. BM Disc, Amidon & 33rd St. N. 42'E & 34' N & Both.

Sta. 0+17, Install 30" End Section

Install 30 SY Type 3 Rip-rap

LITTLE ARKANSAS RIVER

99.06' N 18°05 04" E

130.32' N 38°43 04" E

RACETTE - RIVEREND ADDITION

Lot 3

Lot 2

Lot 1

Sta. 3+11.74, Constr. Type 1A Curb Inlet W=4'2", Top=127.5

SE Cor. NE 1/4 Sec. 31-26-1E

℄ 20' Drainage Easement 151.08'

Sta. 1+12, Constr. Type A Manhole 5' Dia., Top=118.7

Constr. Type 1A Curb Inlet, W=4'2" Top=127.5, Install 4 LF of 18" RCP or CMP, USFL=123.6 DSFL=123.5

Constr. Type 1A Curb Inlet, W=4'2", Top=127.5 Install 4 LF of 15" RCP or CMP, USFL=124.0 DSFL=123.9

Proposed 8" San Sewer

Proposed 6" Water

33RD ST N CIRCLE

105.0'

68.97'

31.49'

102.92'

50.0' R

22.88'

Sta. 0+17.0, Install 30" End Section

Sta. 1+12, Constr. Type A Manhole, 5' Dia., Top=118.7

Sta. 2+60, Sec. Line

Sta. 3+11.74, Constr. Type 1A Curb Inlet, W=4'2", Top=127.5

Install 95 LF of 30" RCP @ 0.63%
Alt. 95 LF of 30" CMP (fully paved) @ 0.63%

Install 200 LF of 24" RCP @ 2.50%
Alt. 200 LF of 24" CMP (fully paved) @ 2.50%

Proposed T.C.

DNS = 123.0

W.S. Elev. = 110.6

Type 3 Rip-rap

E.out = 110.98 FINAL = 111.91

FINAL = 116.17
E.out = 115.5
E.in = 115.0
FINAL = 114.53

E.out = 120.0 FINAL = 120.03

130
125
120
115
110

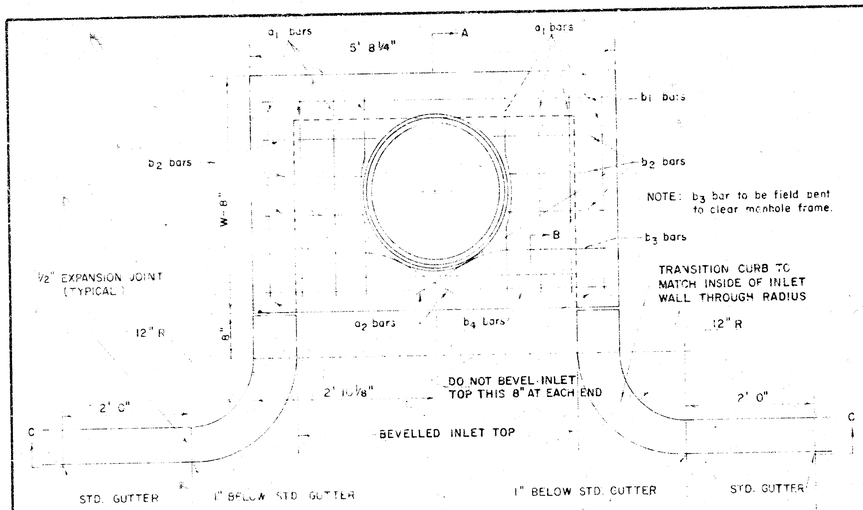
0 111.11 1 - 117.42 115.95 2 - 117.20 118.45 3 - 119.20

PROJECT DESCRIPTION
STORM WATER SEWER NO. 177

PROJECT NUMBER
468 76 245 80887 000 000 001

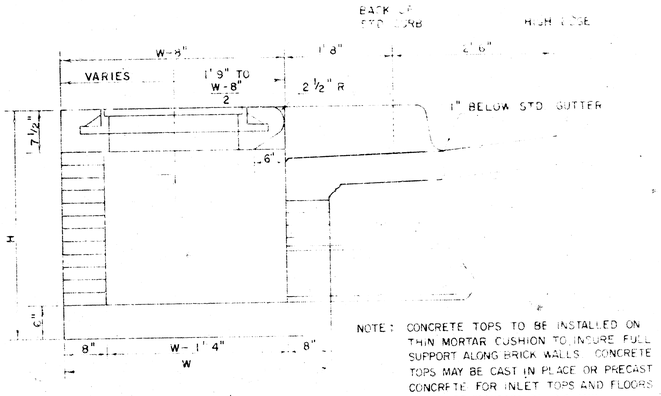
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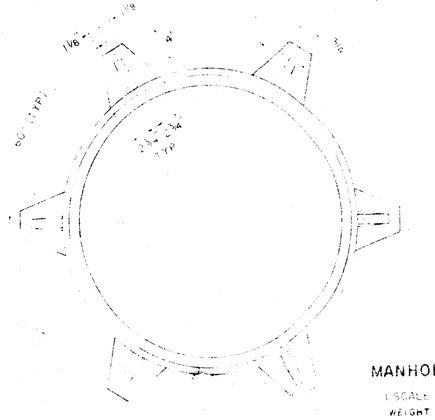
NOTE: b_3 bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS

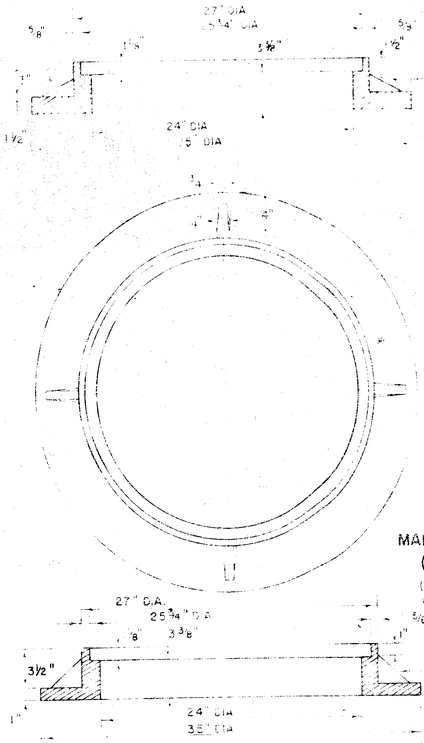


SECTION A-A
(SCALE 1" = 1'0")

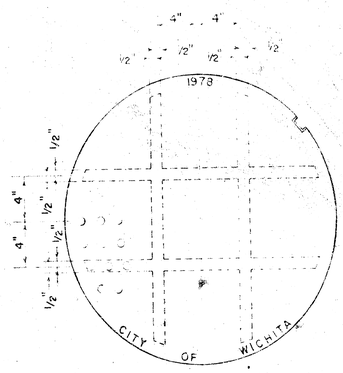
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST CONCRETE FOR INLET TOPS AND FLOORS SHALL BE *STANDARD* PAVING MIX



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

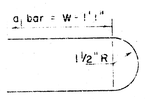


MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



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

PLAN (SCALE 1" = 1'0")



BENDING DIAGRAM

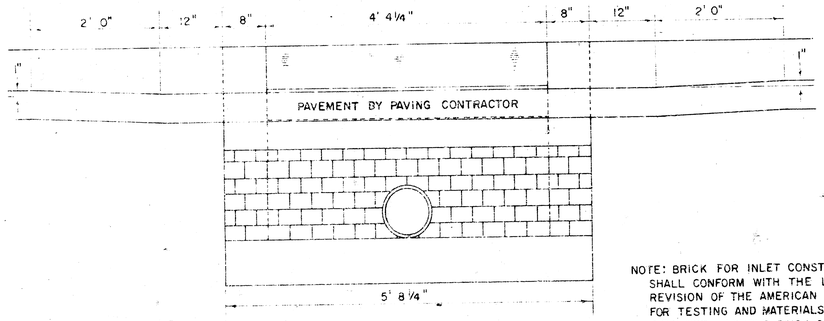
STEEL SCHEDULE

BAR	a_1	a_2*	b_1 W=4'2"	b_1 W=5'0"	b_1 W=6'0"	b_1 W=7'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. LBS.
NUMBER	8	2	1	1	1	1	1	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH W=4'2"	6'5"	3'4"	5'5"	–	–	–	–	1'5"	5'6"	5'5"	60#
LENGTH W=5'0"	8' 1"	4'4"	–	5'5"	–	–	–	1'5"	5'6"	5'5"	77#
LENGTH W=6'0"	10' 1"	5'4"	–	–	5'5"	–	–	1'5"	5'6"	5'5"	97#
LENGTH W=7'0"	11' 1"	6'4"	–	–	–	5'5"	–	1'5"	5'6"	5'5"	111#
LENGTH W=8'0"	12' 1"	7'4"	–	–	–	–	5'5"	1'5"	5'6"	5'5"	124#

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

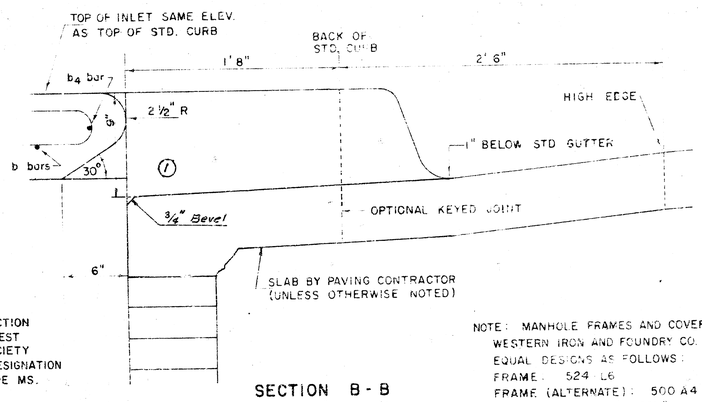
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5'8 1/4"x7 1/2"	21" & SMALLER	0.46 *
5' 0"	44"x5'8 1/4"x7 1/2"	24" & 30"	0.57 *
6' 0"	54"x5'8 1/4"x7 1/2"	36" & 42"	0.71 *
7' 0"	64"x5'8 1/4"x7 1/2"	48" & 54"	0.84 *
8' 0"	74"x5'8 1/4"x7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME



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 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"

① Rev. 5-18-81

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/ CITY ENGINEER

JUNE, 1981

Sheet 3/4

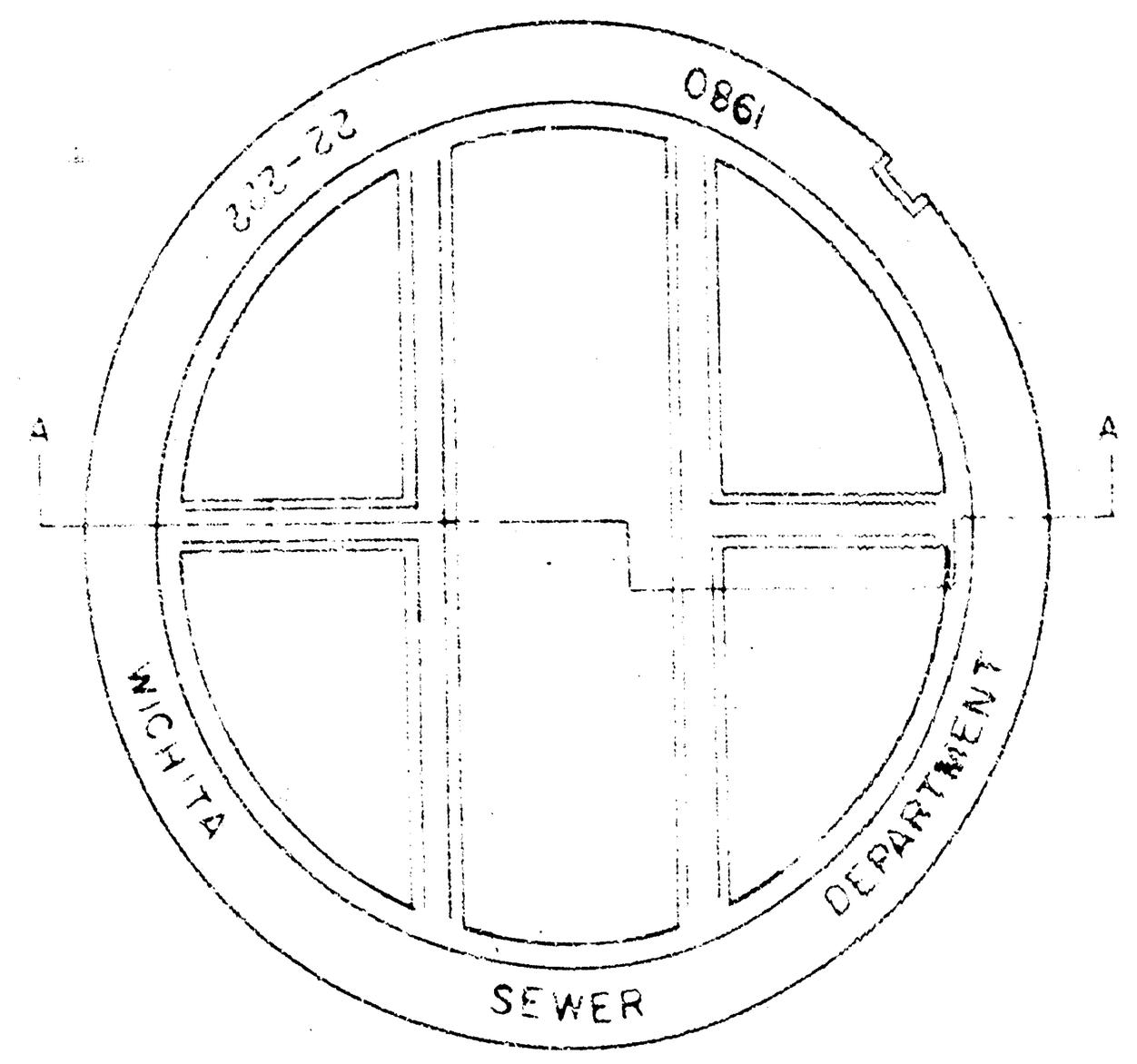
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REVISED SEPTEMBER 1980

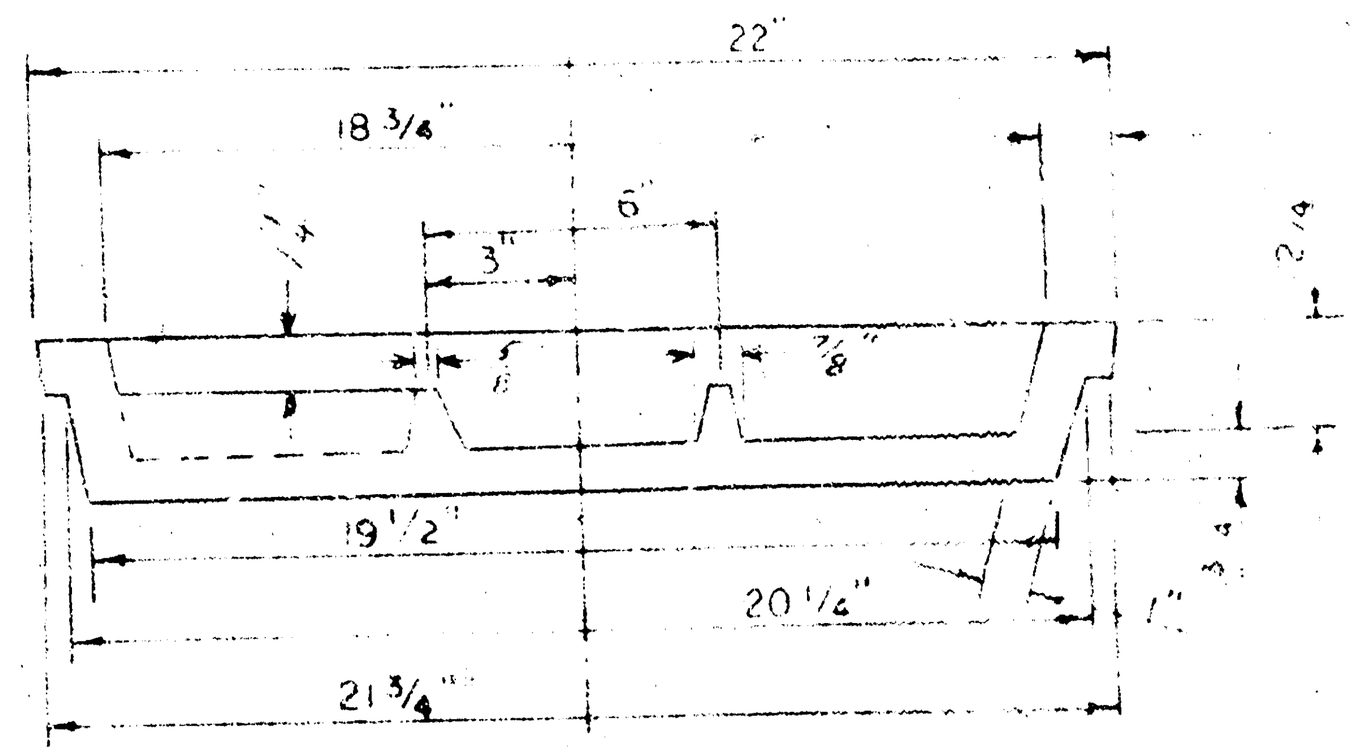
SEWER APPURTENANCES DETAILS

ADOPTED AS STANDARD DESIGN BY

CITY of WICHITA, KANSAS

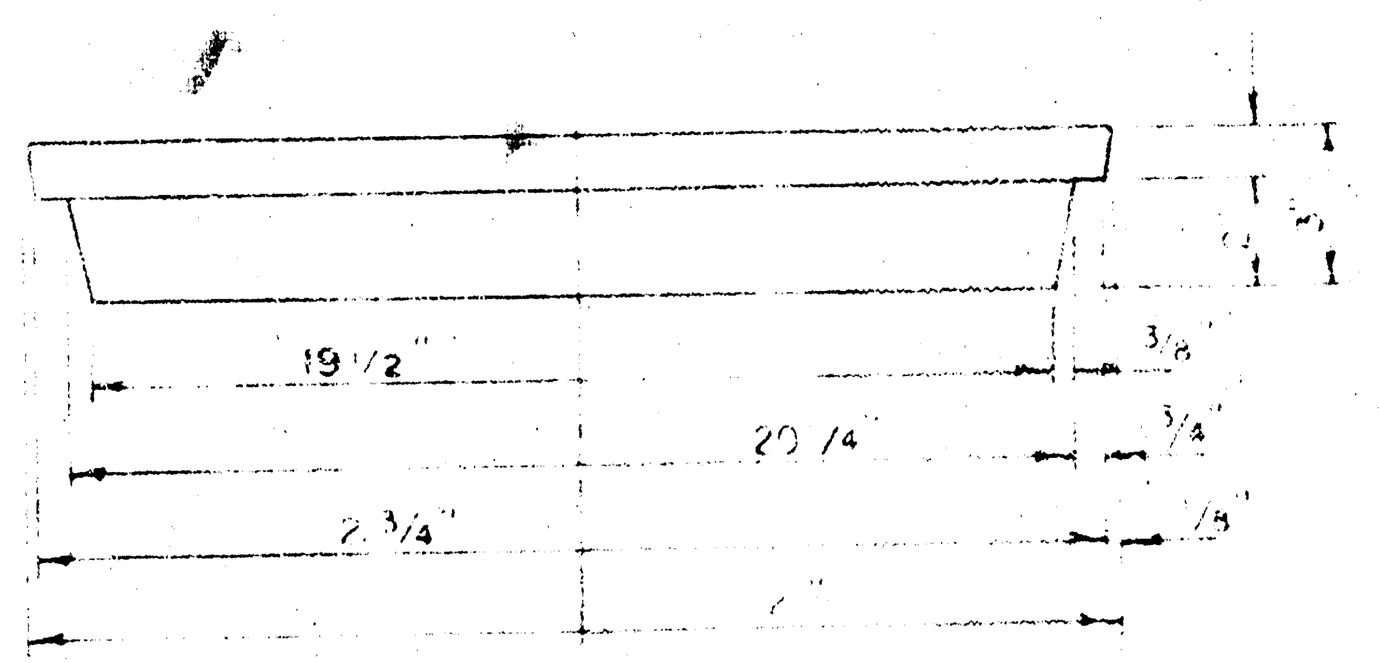


TOP VIEW



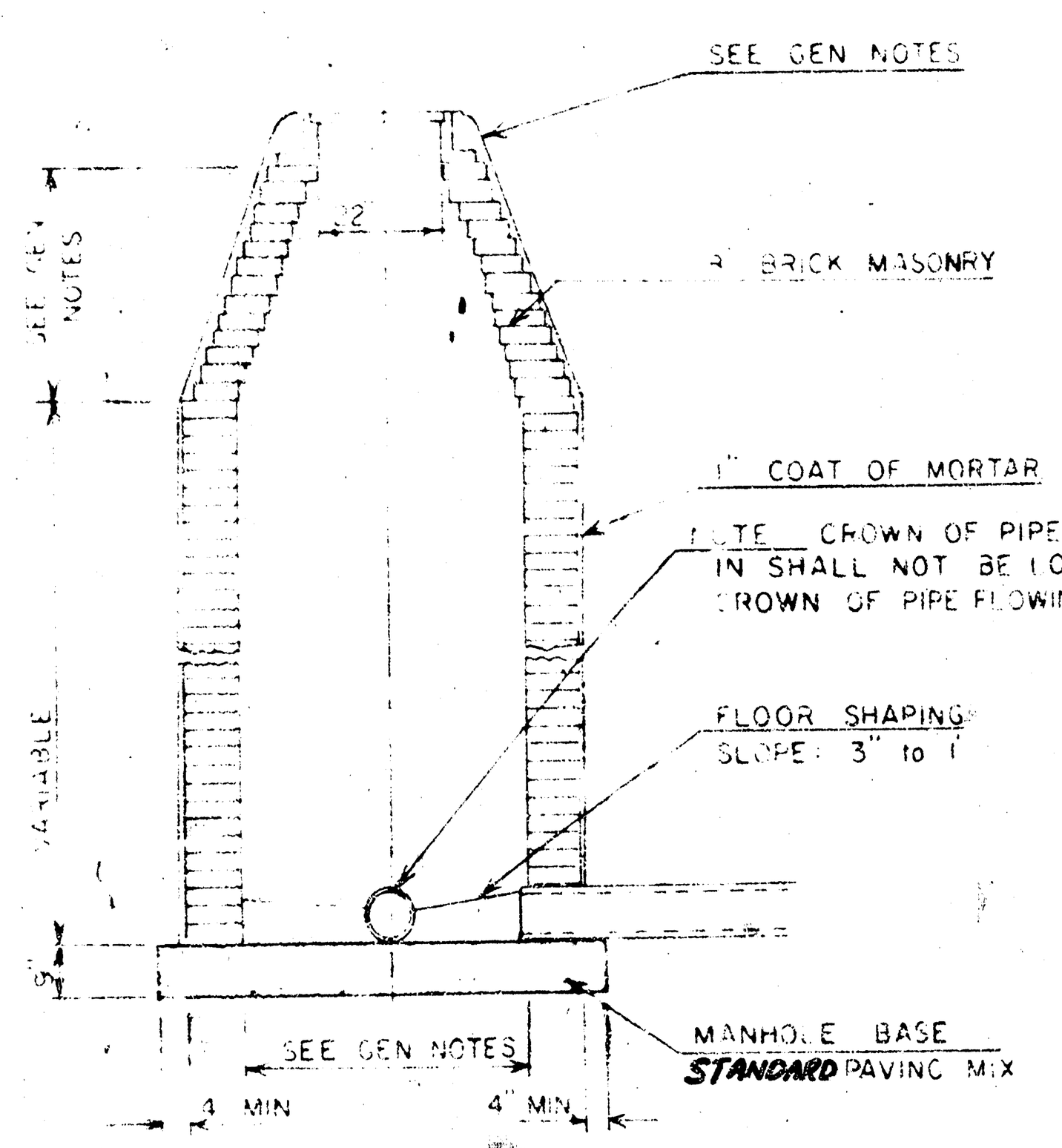
SECTION A A

MANHOLE COVER

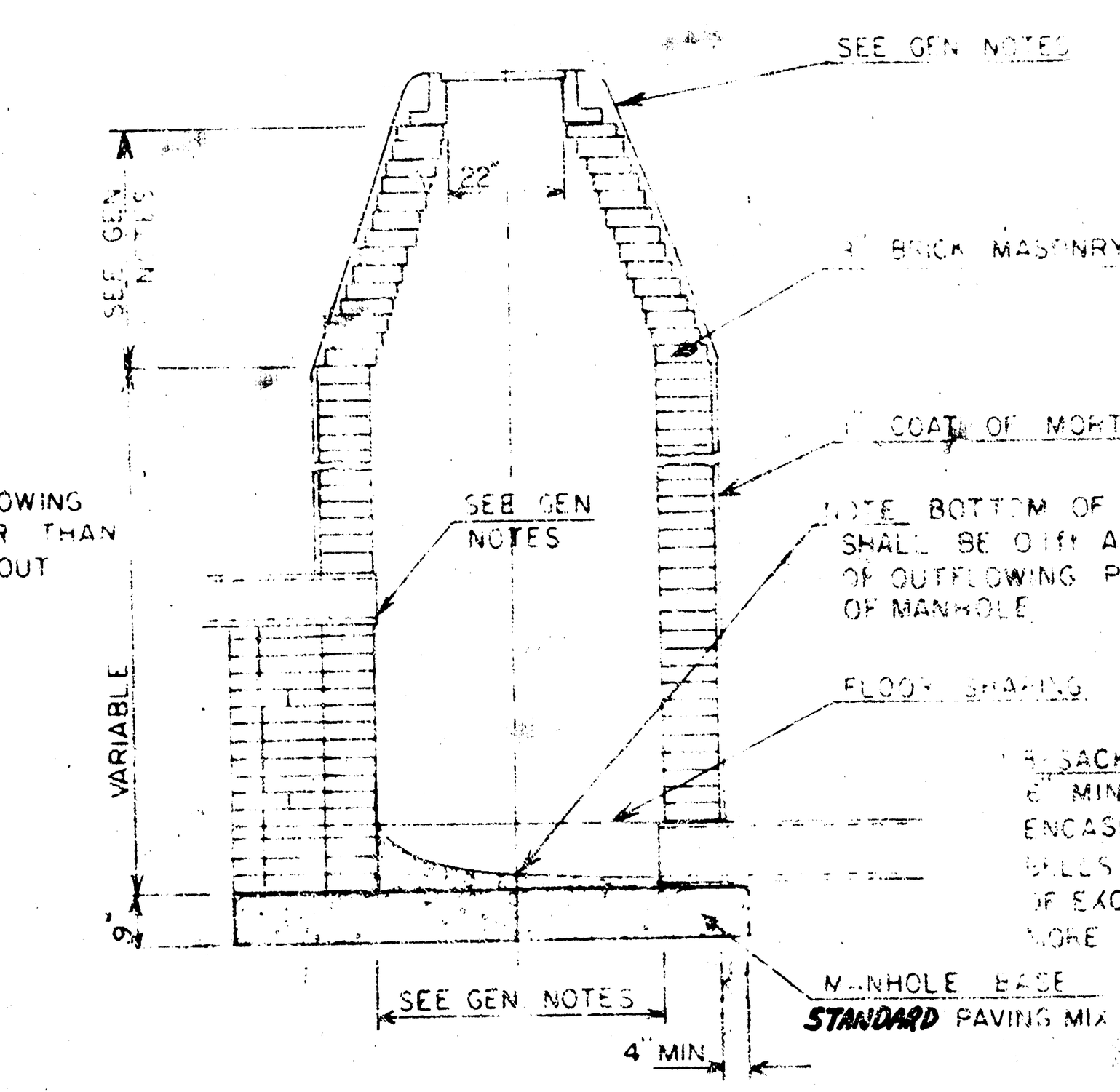


SIDE VIEW

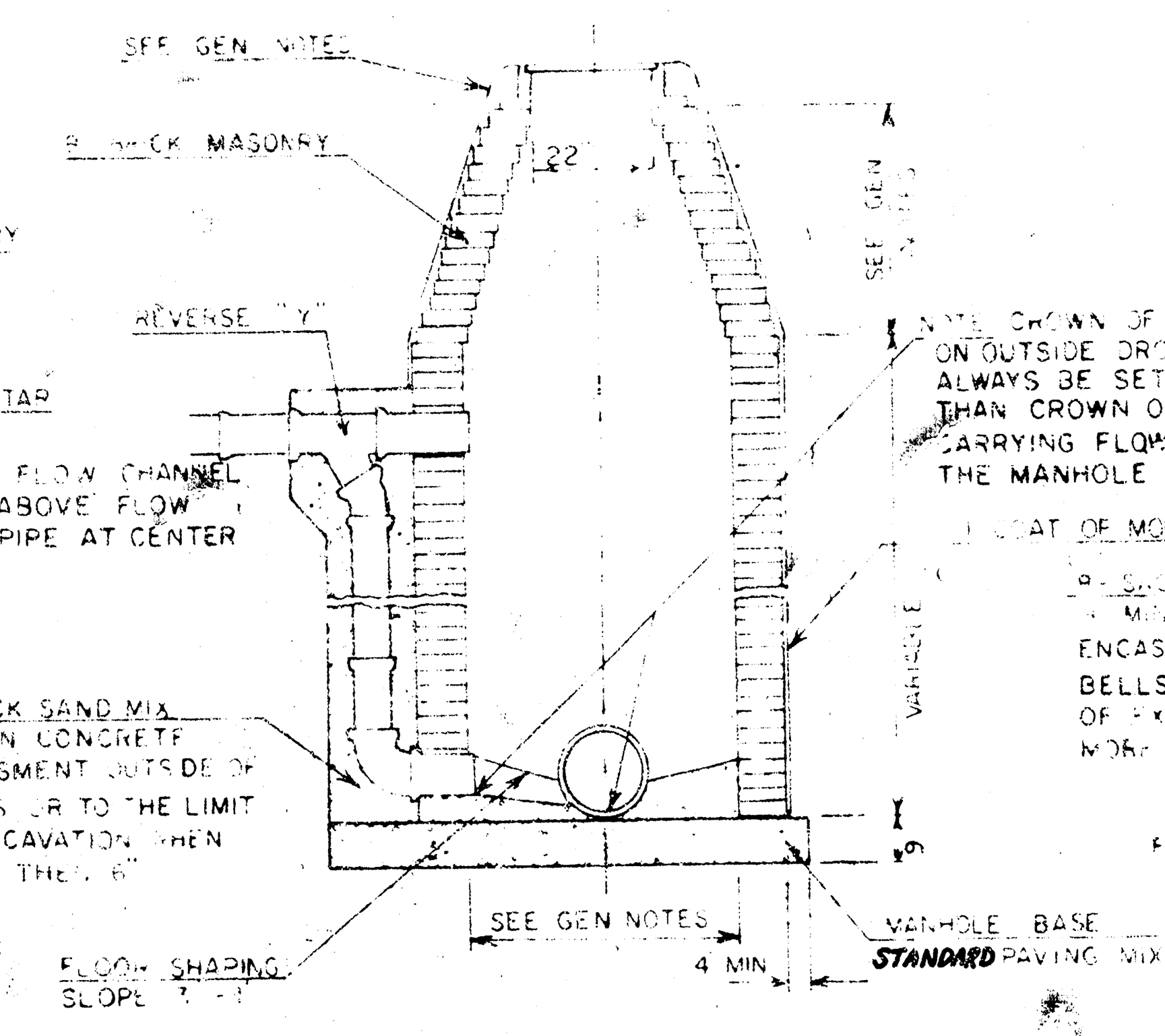
TYPE "A" MANHOLE



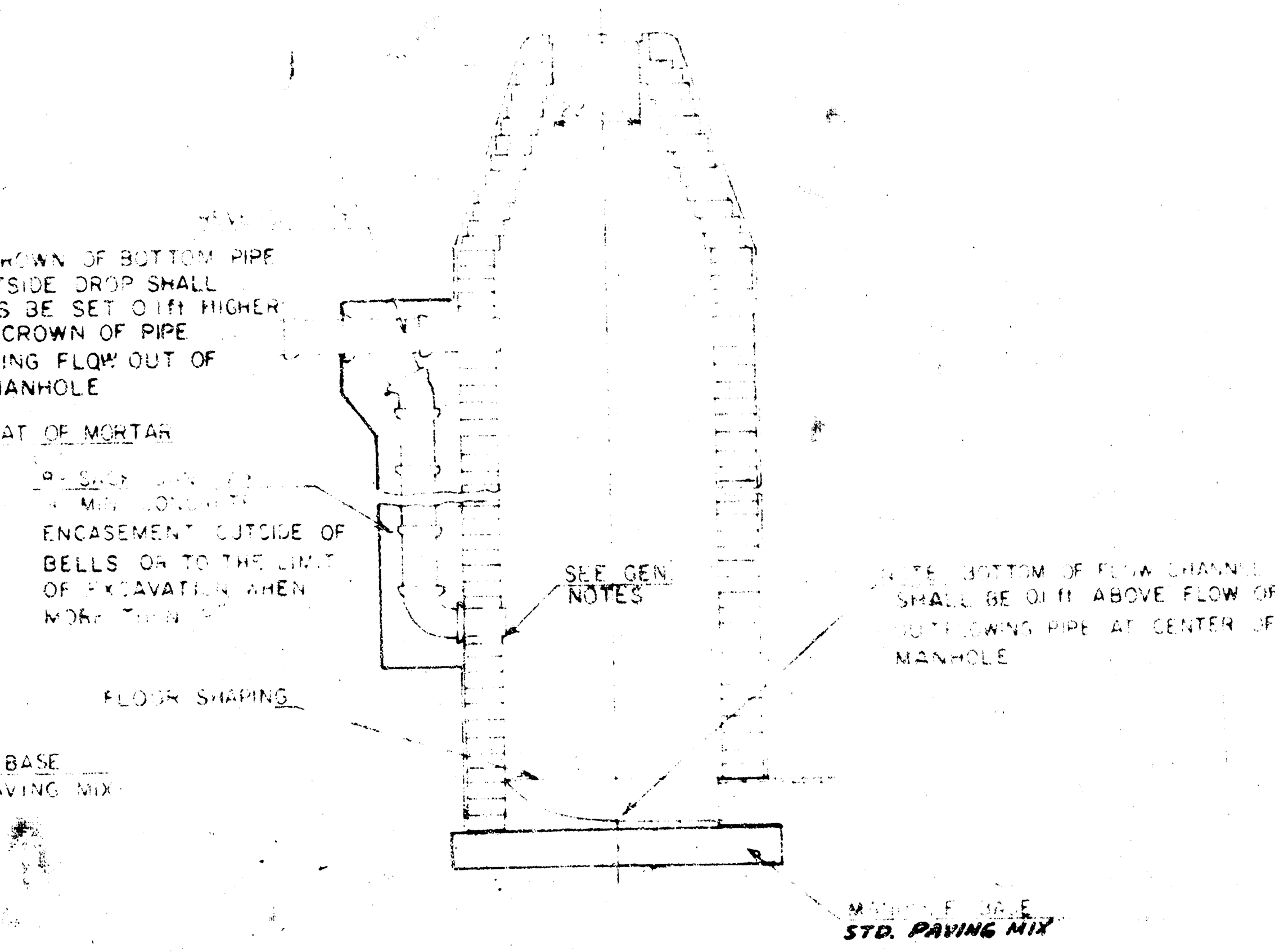
TYPE "A" INSIDE DROP MANHOLE



TYPE "A" OUTSIDE DROP MANHOLE

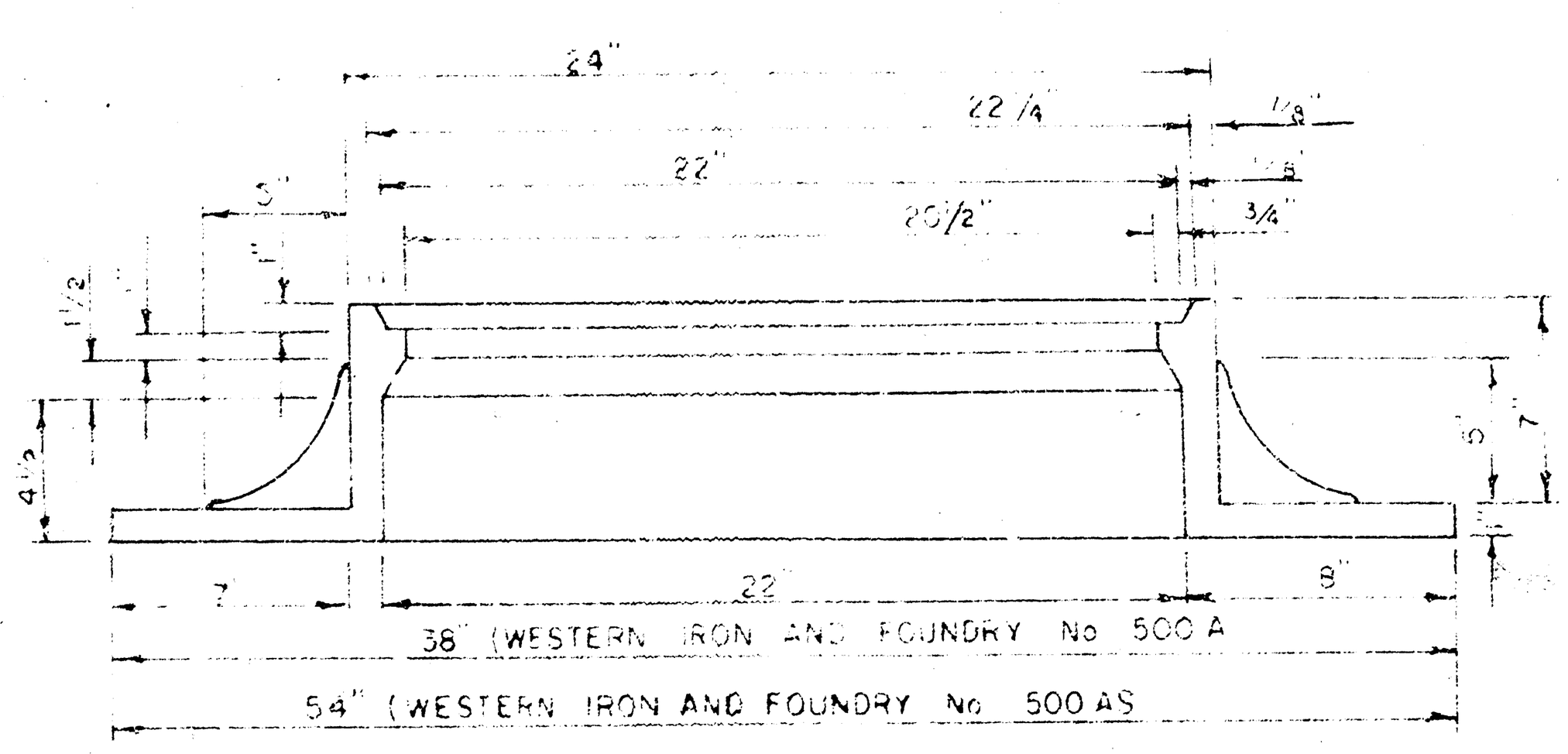


DETAIL OF OUTSIDE DROP CONSTRUCTED ON EXISTING MANHOLE

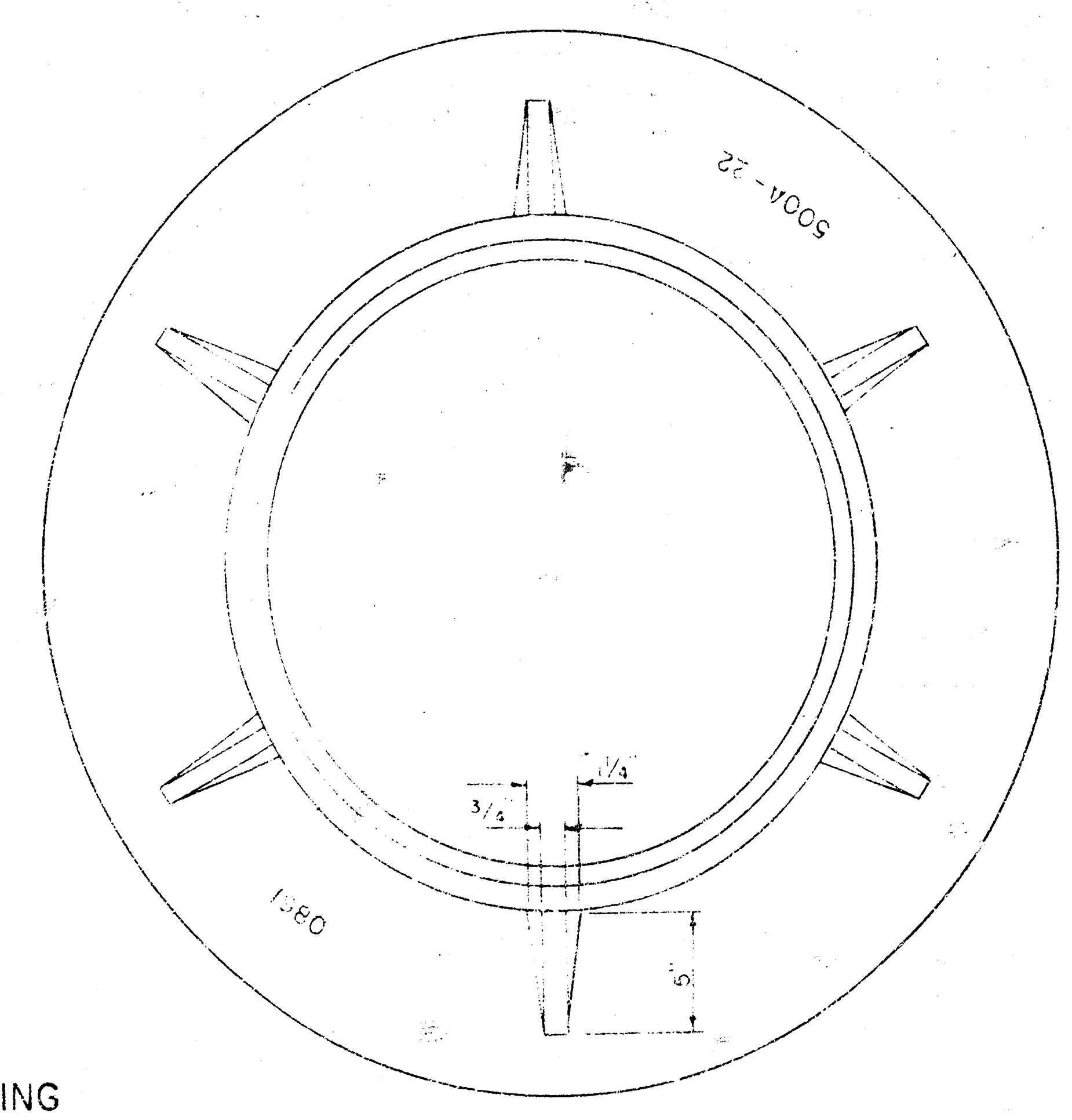


GENERAL NOTES

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2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]



MANHOLE RING No 500A wt = 325 lb
MANHOLE RING No 500AS wt 600 lb



MANHOLE RING

16 3 3 1

4/4

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