

Lot 1 - Blk 1

Lot 2 - Blk 1

Scale: Horiz. 1"=20'
Vert. 1"=5'

Sta 5+43.75' Lt. Connect to Exist. Manhole. Regrade Top to Elev. 92.23

Sta 8+75' Const. 3-Type 1-A Curb Inlet. Install 95 L.F. 18" R.C.P. Connect E & W Inlets with 4 L.F. 15" RCP. See Sh. 10. W=3'-10"

Sta 3+85' Begin New Construction. Match Exist. Pavement

Sta 8+75' Const. 2-Type 1A Curb Inlets. Install 960 L.F. 24" RCP. Connect Inlet W. with 4 L.F. 15" RCP. See Sh. 10. W=3'-10"

Sta 5+40.6'-40' Rt. E-Const Std. Type A or C Manhole with 6" Stubs SW & SE. See Profile Below Lt.

Sta 0+00' Tulsa St = Hydraulic Ave.

Sta 5+02.6'-40' Rt. Const. Std. Type A or C Manhole Top Elev. 93.6. Install 6" Stubs SW & SE

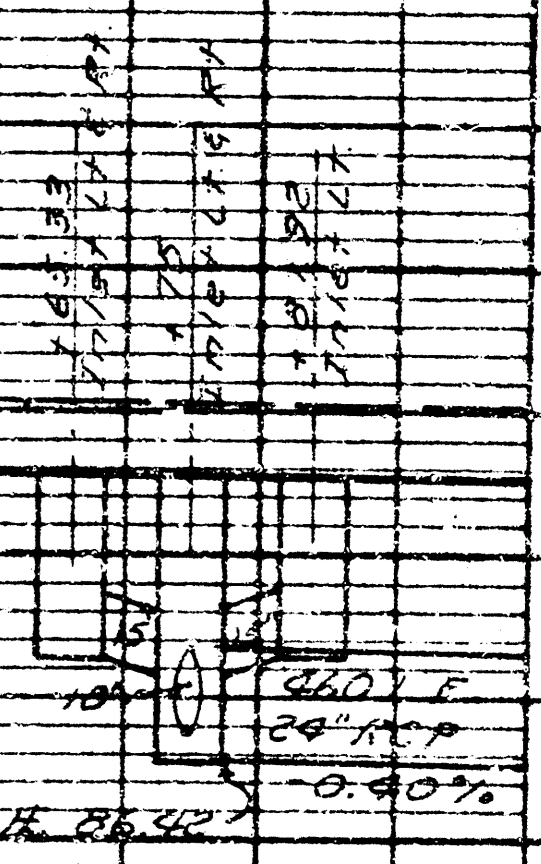
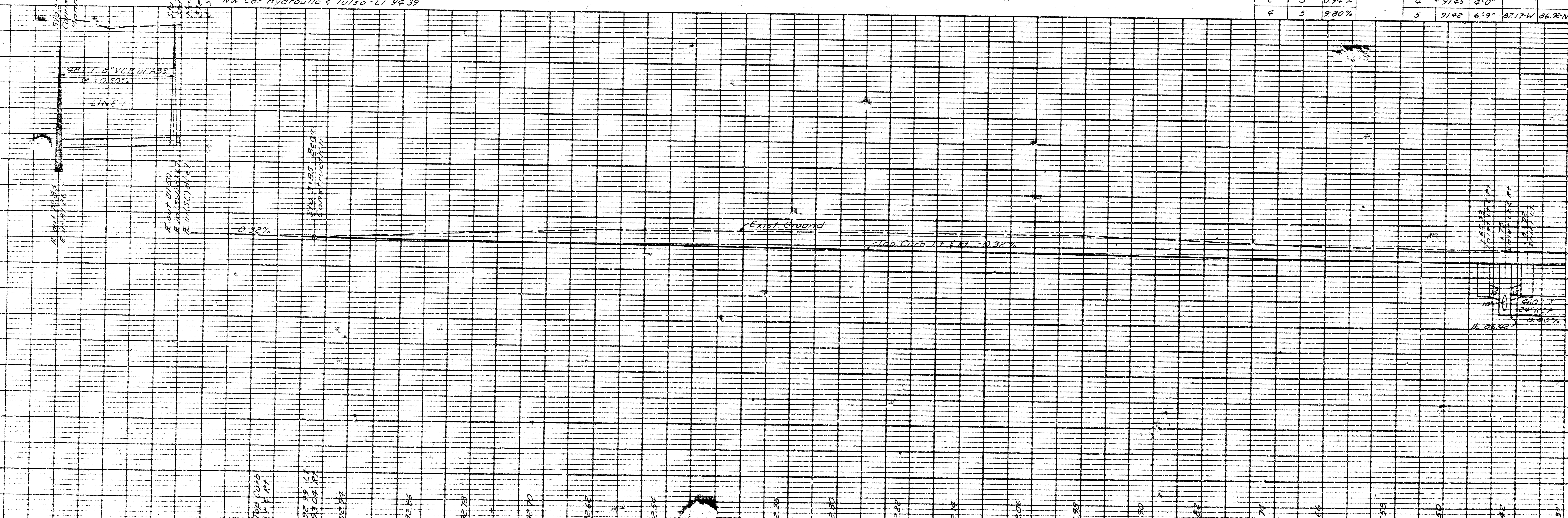
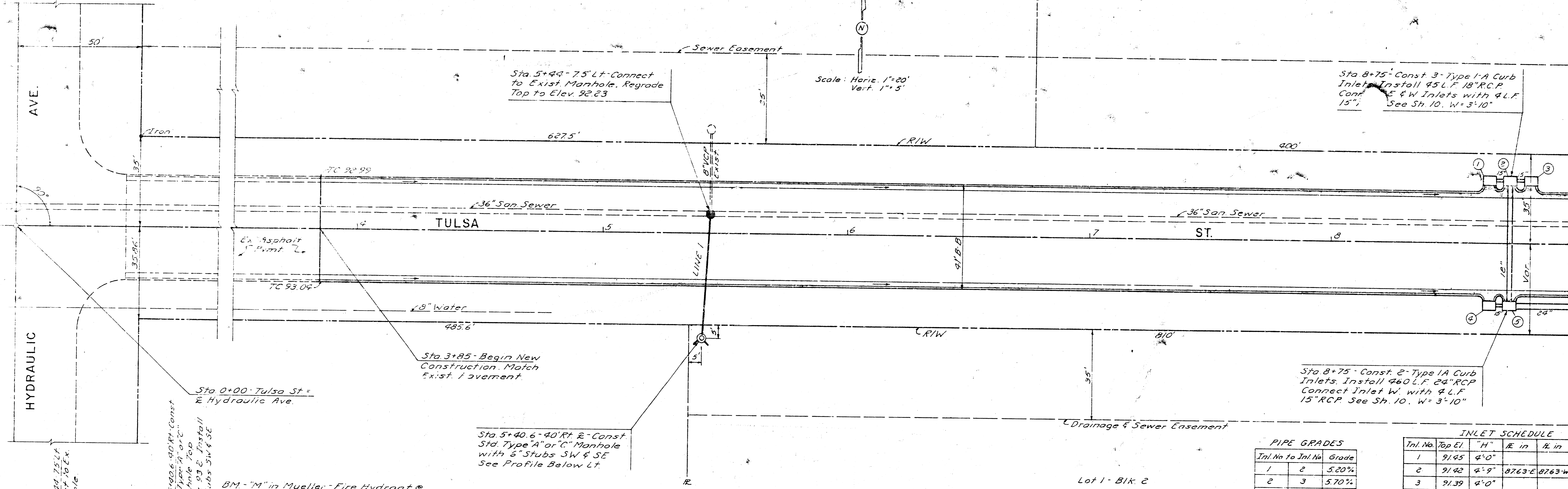
BM "M" in Mueller Fire Hydrant @ NW Cor. Hydraulic & Tulsa - El. 94.39

PIPE GRADES

Inlet No	To Inlet No	Grade
1	2	5.20%
2	3	5.70%
2	5	0.94%
4	5	9.80%

INLET SCHEDULE

Inlet No	Top El.	"H"	R in	R in
1	91.95	4'-0"		
2	91.42	4'-9"	8763-E	8763-W
3	91.39	4'-0"		
4	91.45	4'-0"		
5	91.42	6'-9"	8717-W	86.92-N



Lot 2 - BIK 1

Lot 3 - BIK 1

Sta 10+44-40' Lt & Const. Std. Type 'A' or 'C' Manhole with 6" Stub NW & SE See Profile Below Lt.

Sta 13+64-40' Lt & Const. Std. Type 'A' or 'C' Manhole with 6" Stub N. See Profile Below Rt.

Scale: Horiz. 1" = 20'
Vert. 1" = 5'

Sta 13+45-Const. 3-Type 1A Curb Inlets. Install 45 L.F. 24" RCP. Connect E & W Inlets with 4 L.F. 15" RCP. See Sh. 10 W = 3'-10"

Sta 13+64-85' Lt & Connect to Exist. Manhole. Regrade Top to Elev. 89.69

TULSA ST.

ST.

Sta 10+44-85' Lt & Connect to Ex. Manhole Regrade top to El. 90.59

Sta 13+45-Const. 2-Type 1A Curb Inlets. Install 53 L.F. 30" R.C.P. - See Profile Below Connect Inlet W. with 4 L.F. 24" RCP. See Sh. 10. W = 3'-10"

Chain Link Fence to be Relocated along south line of Tulsa St.

PIPE GRADES

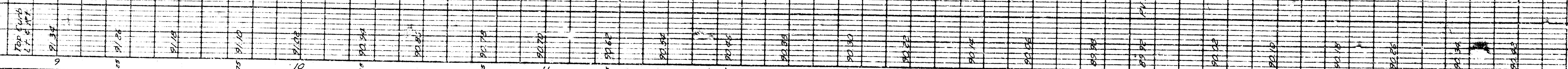
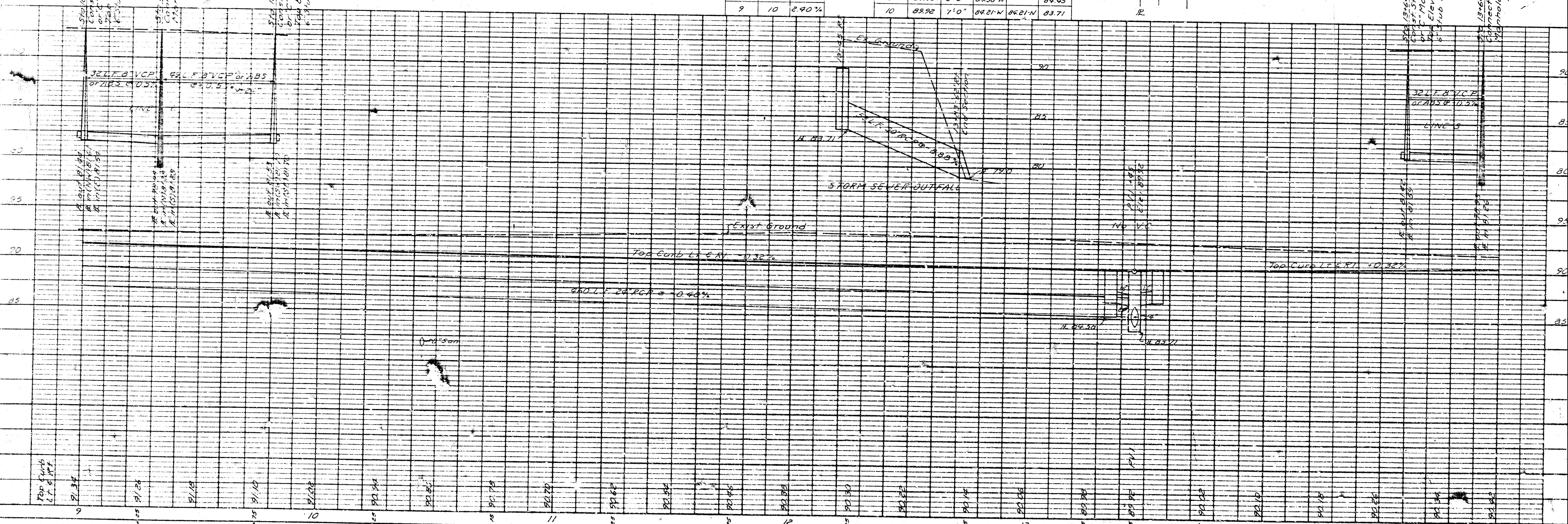
Inlet No.	To Inlet No.	Grade
6	7	7.20%
7	8	7.20%
7	10	1.96%
9	10	2.90%

INLET SCHEDULE

Inlet No.	Top El.	"H"	In in	In in	Out
6	89.95	4'-0"			86.64
7	89.92	5'-6"	85.92-W	85.92-E	85.17
8	89.95	4'-0"			86.64
9	89.95	6'-3"	89.58-W		84.45
10	89.92	7'-0"	89.21-W	89.21-N	83.71

Sta 10+44-40' Rt & Const. Std. Type 'A' or 'C' Manhole with 6" Stubs SW & SE See Profile Below Lt.

Sta 13+83-62' Rt-Install 30" End Section Outlet with 20 S.Y. Dumped Stone Riprap.



Lot 5 - Blk. 1

Lot 1 - Greenbergs Add

Scale: Horiz. 1"=20'
Vert. 1"=5'

Warp Flowline of Curb & Gutter from 0' Depth @ Railroad Spur to Normal Depth in 20'

Sta. 22+11.69-30' Lt.
Const. Std. Type "A" or "C"
MH with 6" Stub SW

Sta. 24+46.69-30' Lt.
Const. Std. Type "A" or "C" MH
with 6" Stub SW

Sta. 24+55.67 Lt.-Const.
Std. Type "A" Inlet. Install
4 L.F. 15" R.C.P. See Sh. 10

Remove Ex. Inlet
& 15" Pipe

Sta. 24+64 Lt.-Const. Std.
Type "A" Inlet. Remove
Ex. Inlet & Extend
Ex. 15" R.C.P. to Connect
New Inlet. See Sh. 10

See Sh. 7 for San
Sewer Details

Sta. 24+64 & Regrade
Ex. Manhole to El. 91.74

Sta. 24+55.67 Rt.-Const.
Std. Type "A" Inlet. Install
4 L.F. 15" R.C.P. See Sh. 10

Sta. 24+64 Rt.-Const.
Std. Type "A" Inlet. Remove
Ex. Inlet & Extend Ex.
15" R.C.P. to Connect New
Inlet. See Sh. 10

Sta. 24+91.2-22 Rt.
Remove Ex. Inlet &
Const. Std. Type "A" or
"C" Manhole on Ex. 24"
Sewer. Top El. 91.7
See Sh. 8 & 9

Const. Conc. Underpinning.
See Detail Right

7" Conc. Base &
3" Asph. Overlay

Const. 7" Reinf. Conc.
Base with 3" Asphaltic
Conc. Surface

Remove & Replace
30 S.Y. Ex. Pavement
For Detail See Sh. 7

Remove Ex. Inlet
& 15" Pipe

CONC. UNDERPINNING DETAIL

Note: All bars
unless otherwise
noted.

#4 bars = 90 L.
#6 bars = 273 L.

INTERSECTION REINFORCING DETAILS

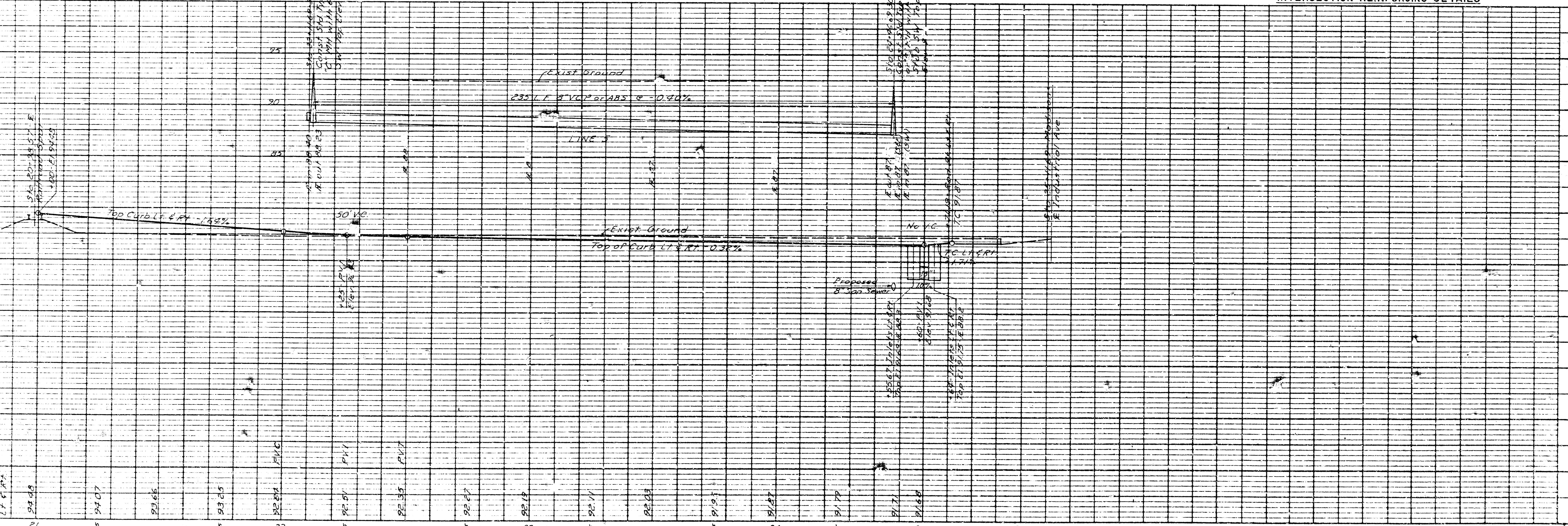
BM - Spk in S Face PP, 175' N & 23' E
N.W. Cor. Greenbergs Add - El. 94.33

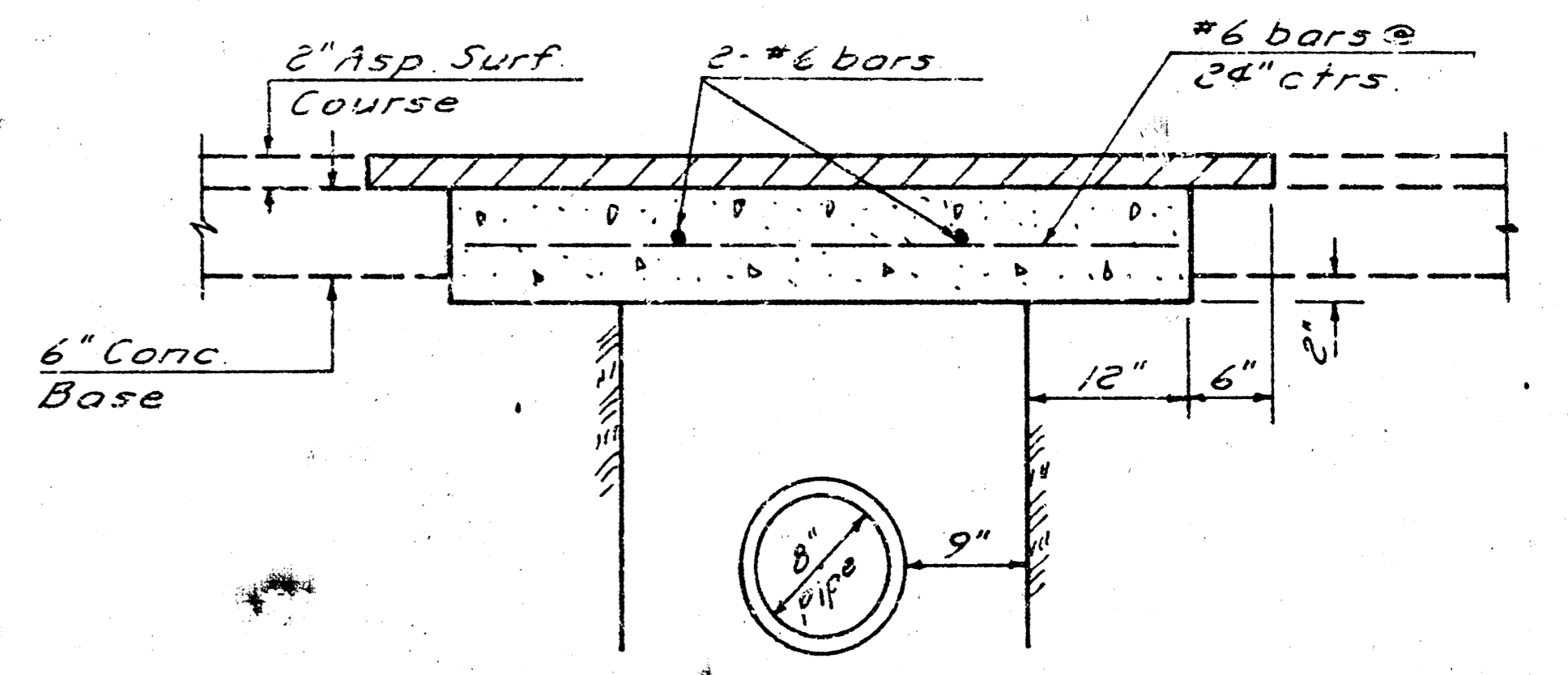
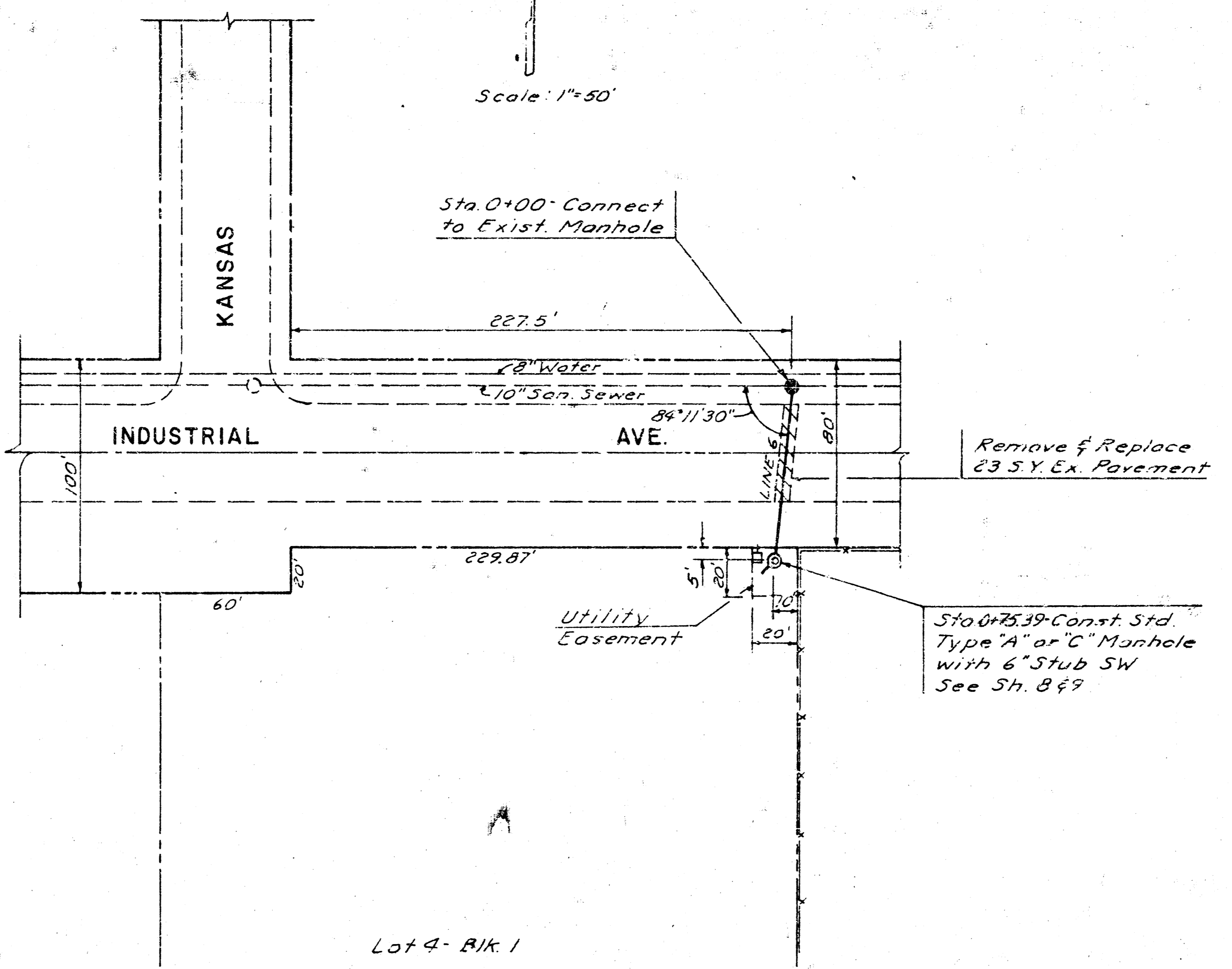
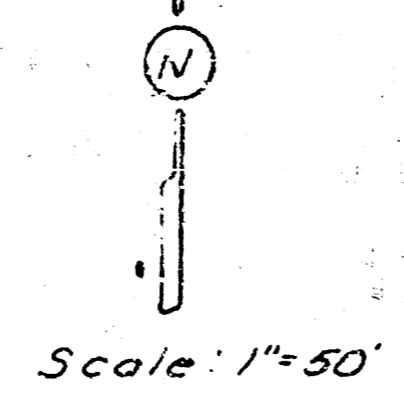
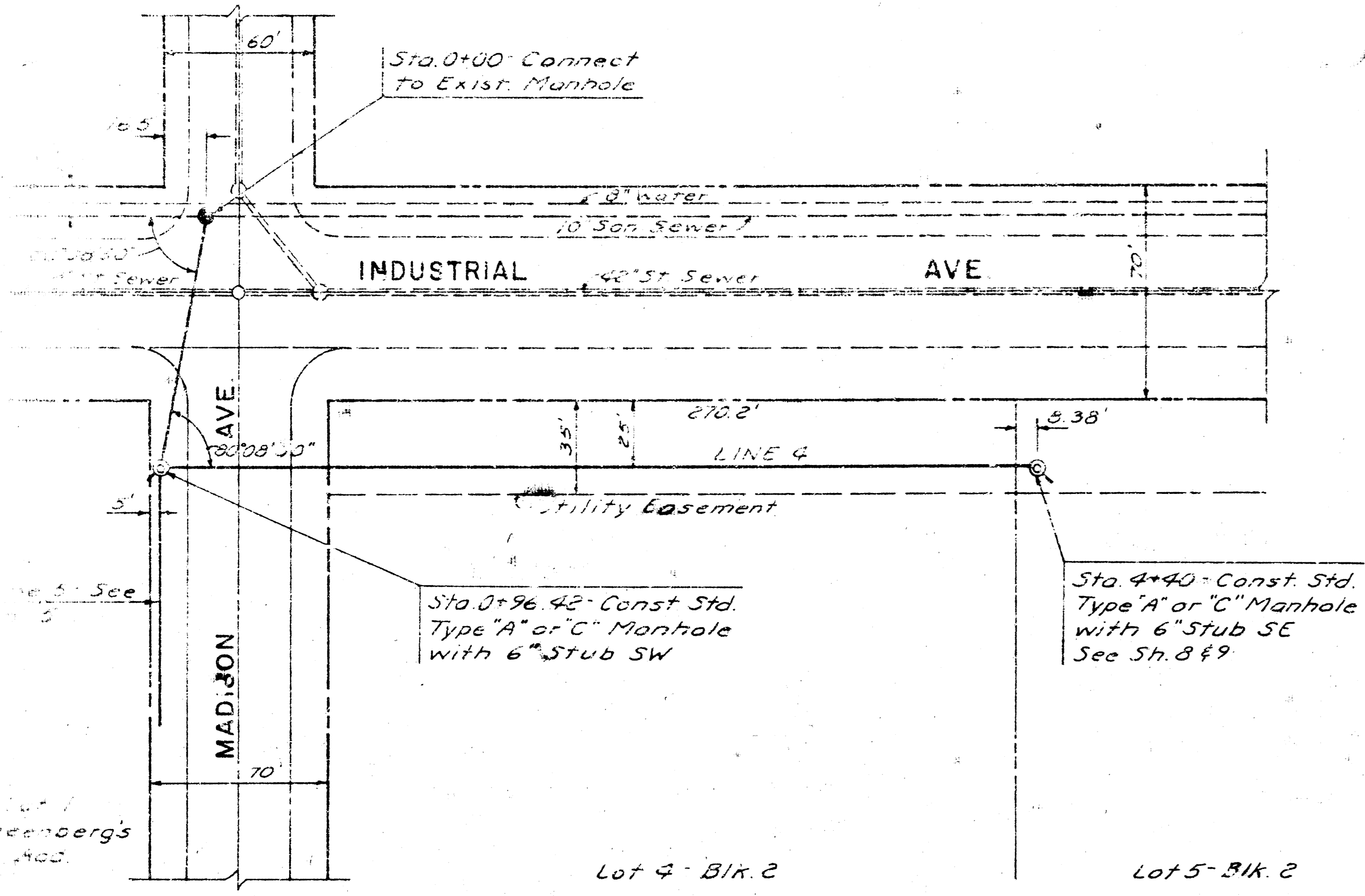
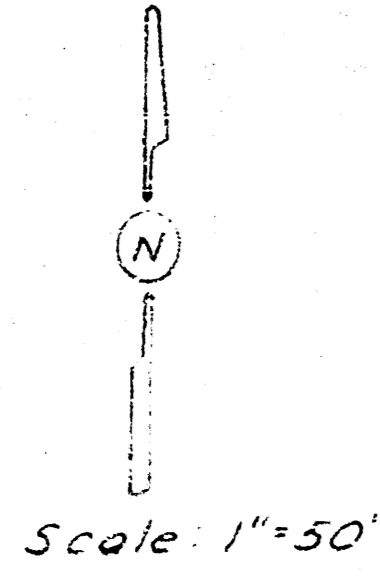
Lot 4 - Blk. 2

Const. Std. Type "A" or
"C" Manhole with 6" Stub
SW. Top El. 91.74

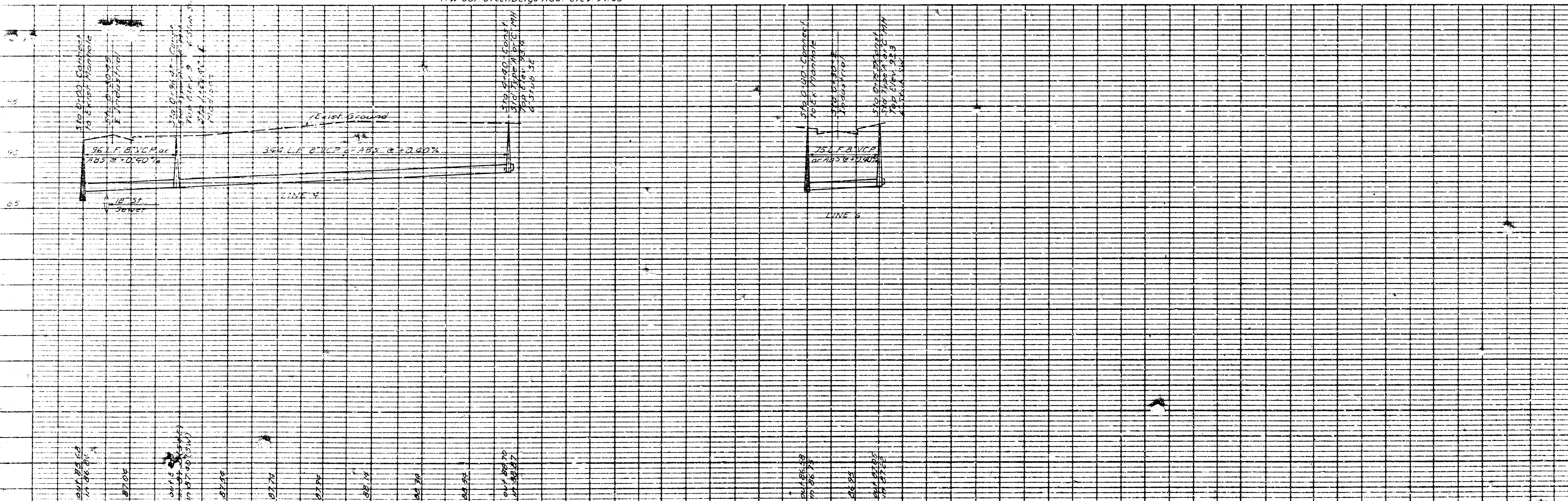
Const. Std. Type "A" or
"C" Manhole with 6" Stub
SW. Top El. 91.74

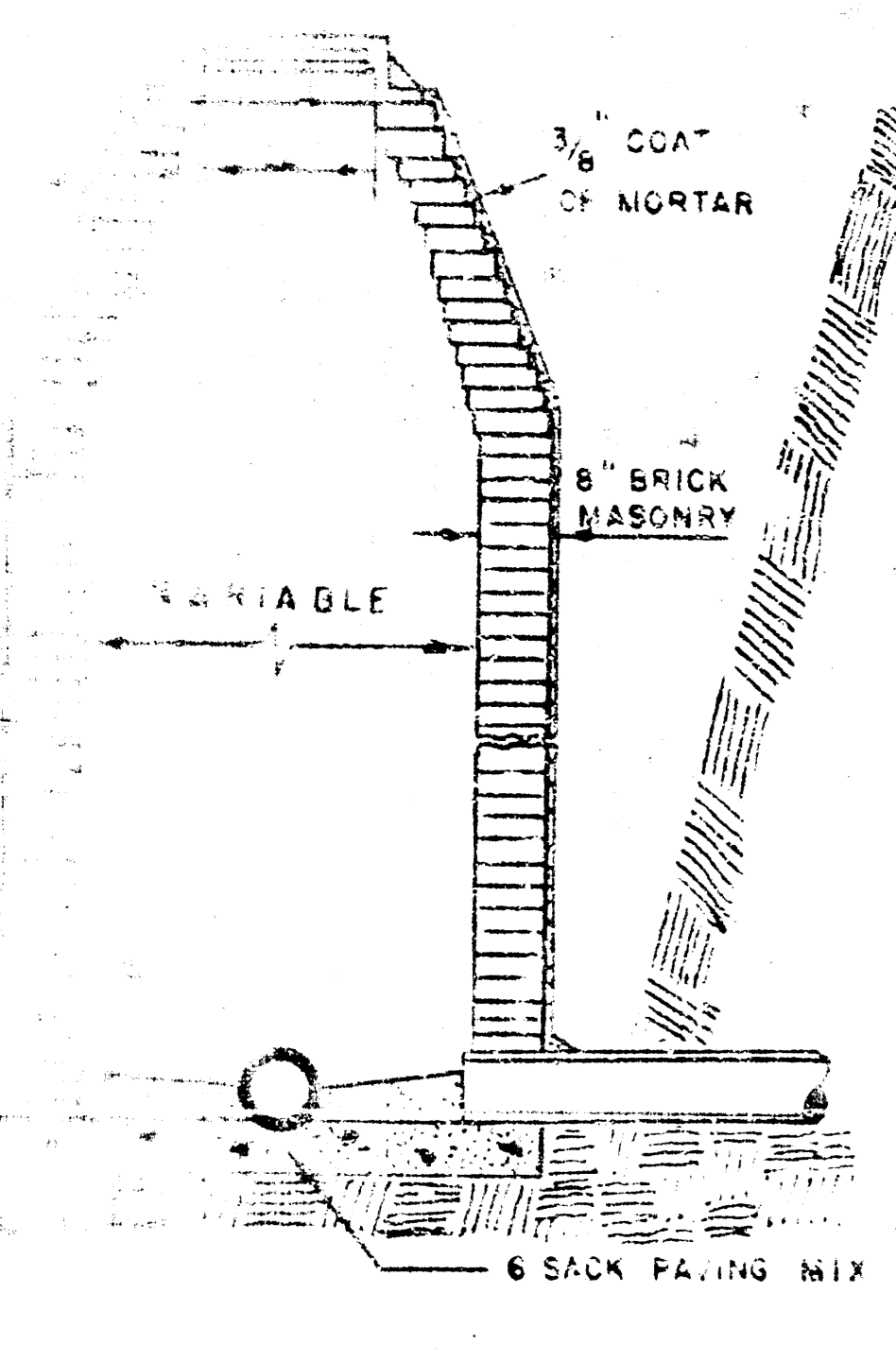
Const. Std. Type "A" or
"C" Manhole with 6" Stub
SW. Top El. 91.74



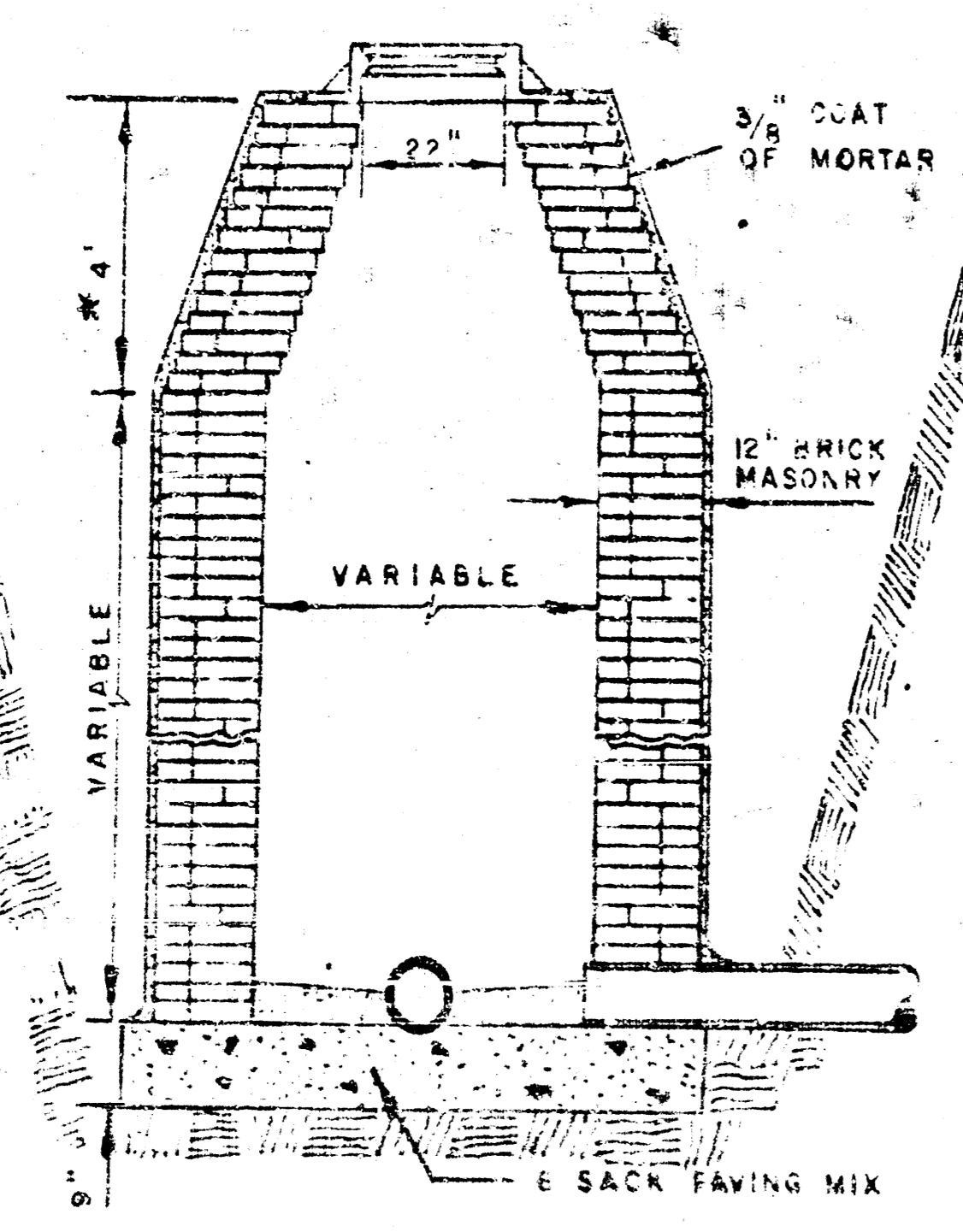


B.M. - Spk in S. Face PP, 175' N & 23' E.
 NW Cor. Greenbergs Add. - Elev. 94.33

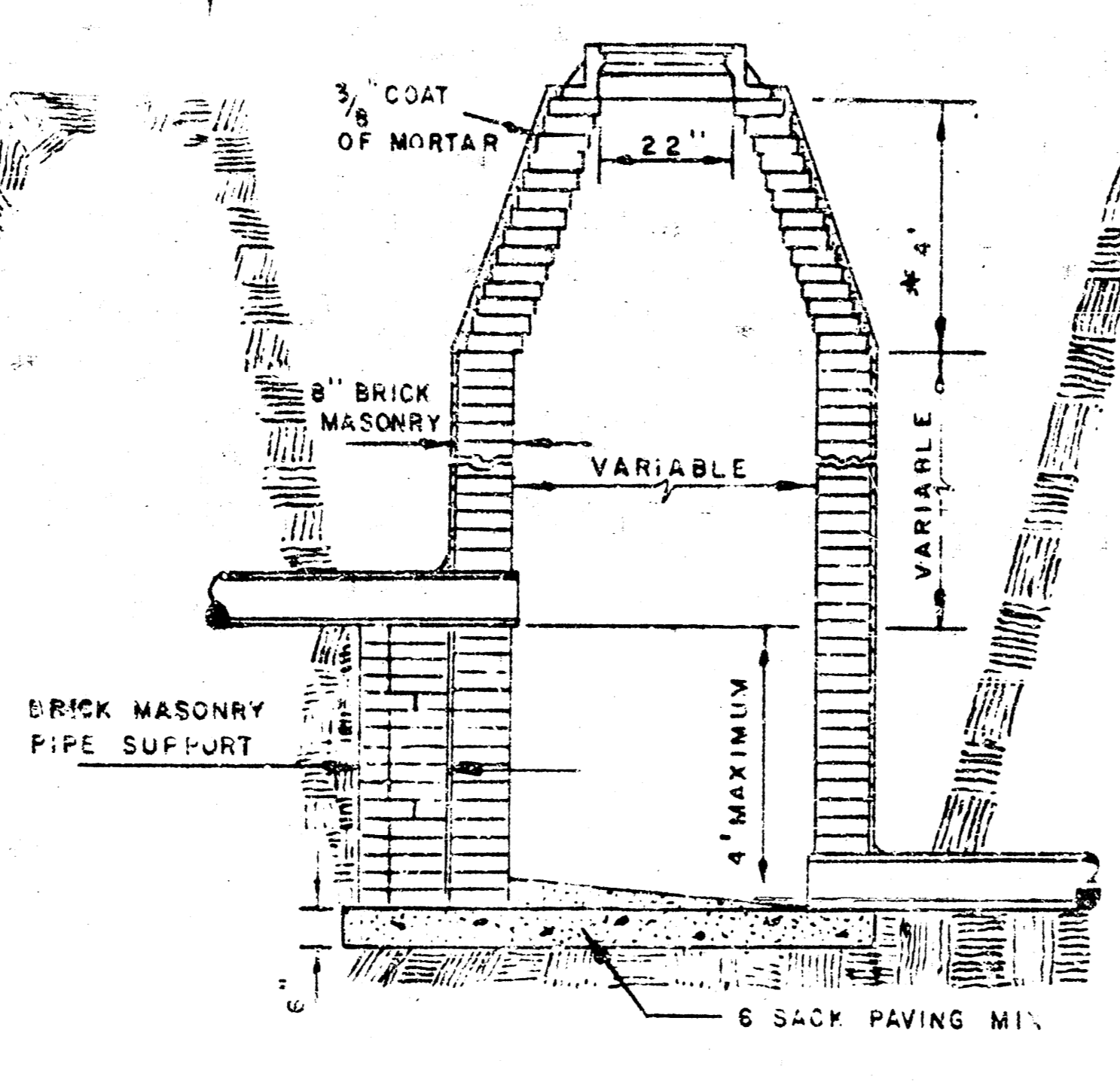




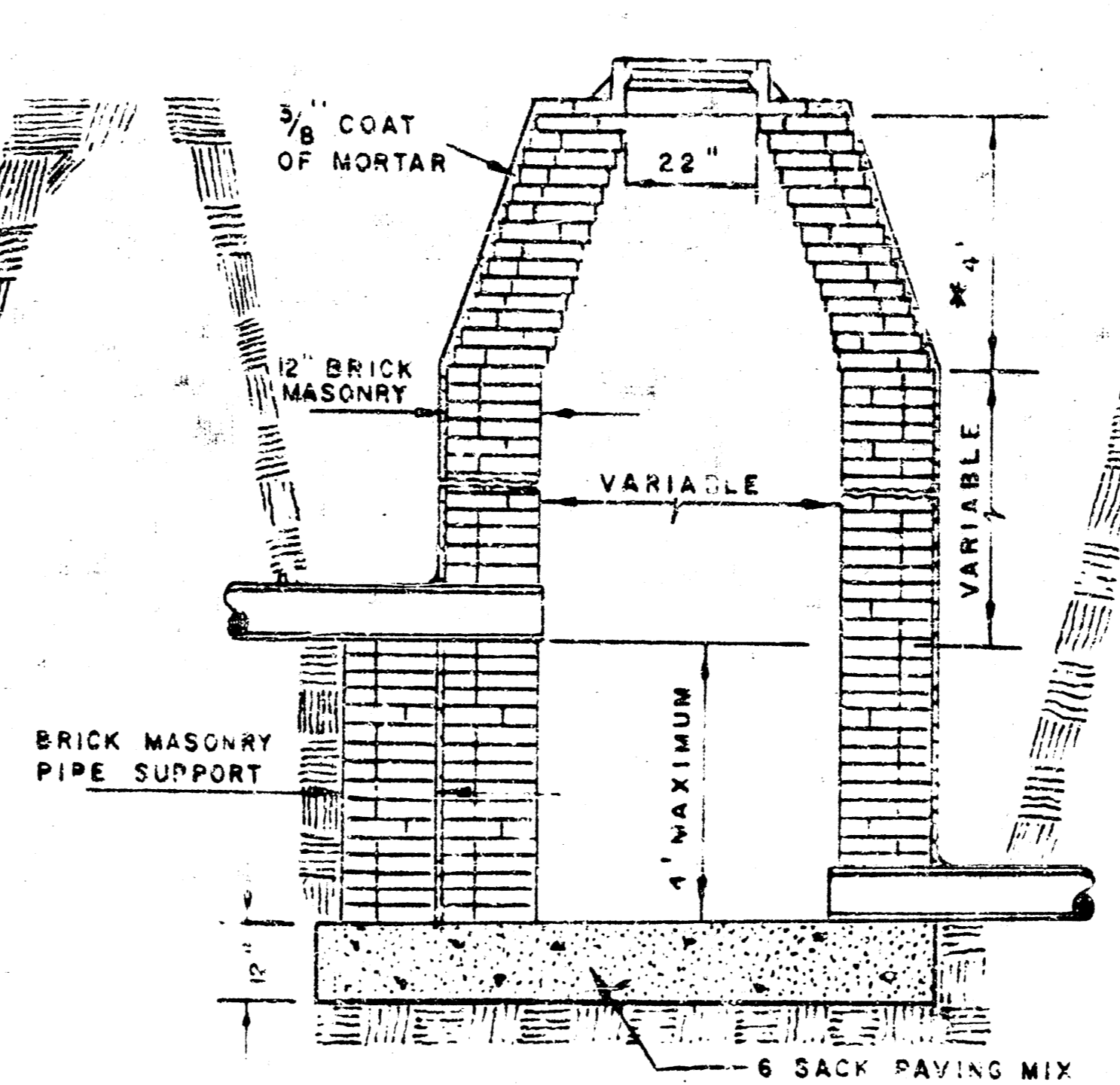
STANDARD MANHOLE TYPE "A"



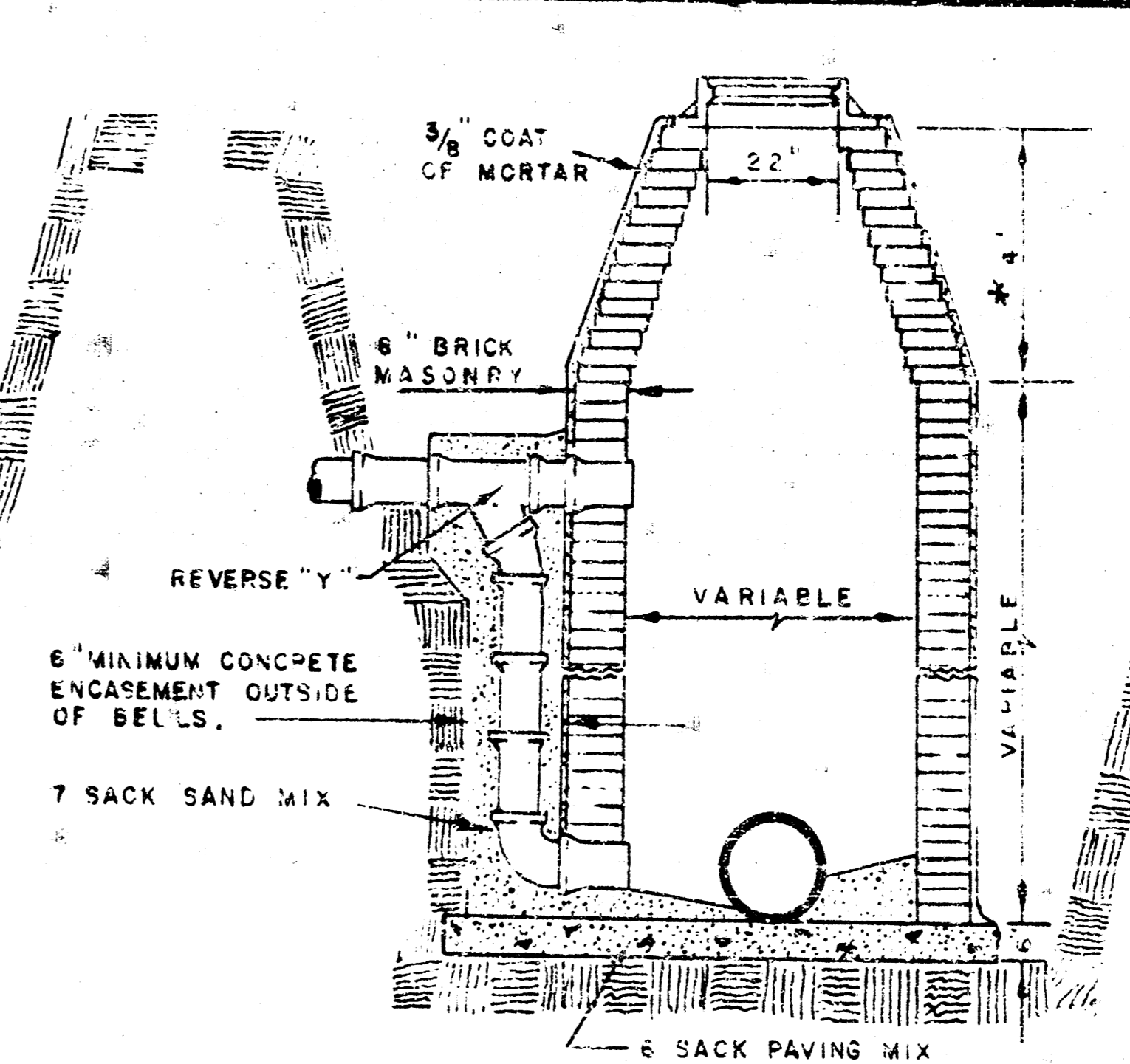
STANDARD MANHOLE TYPE "B"



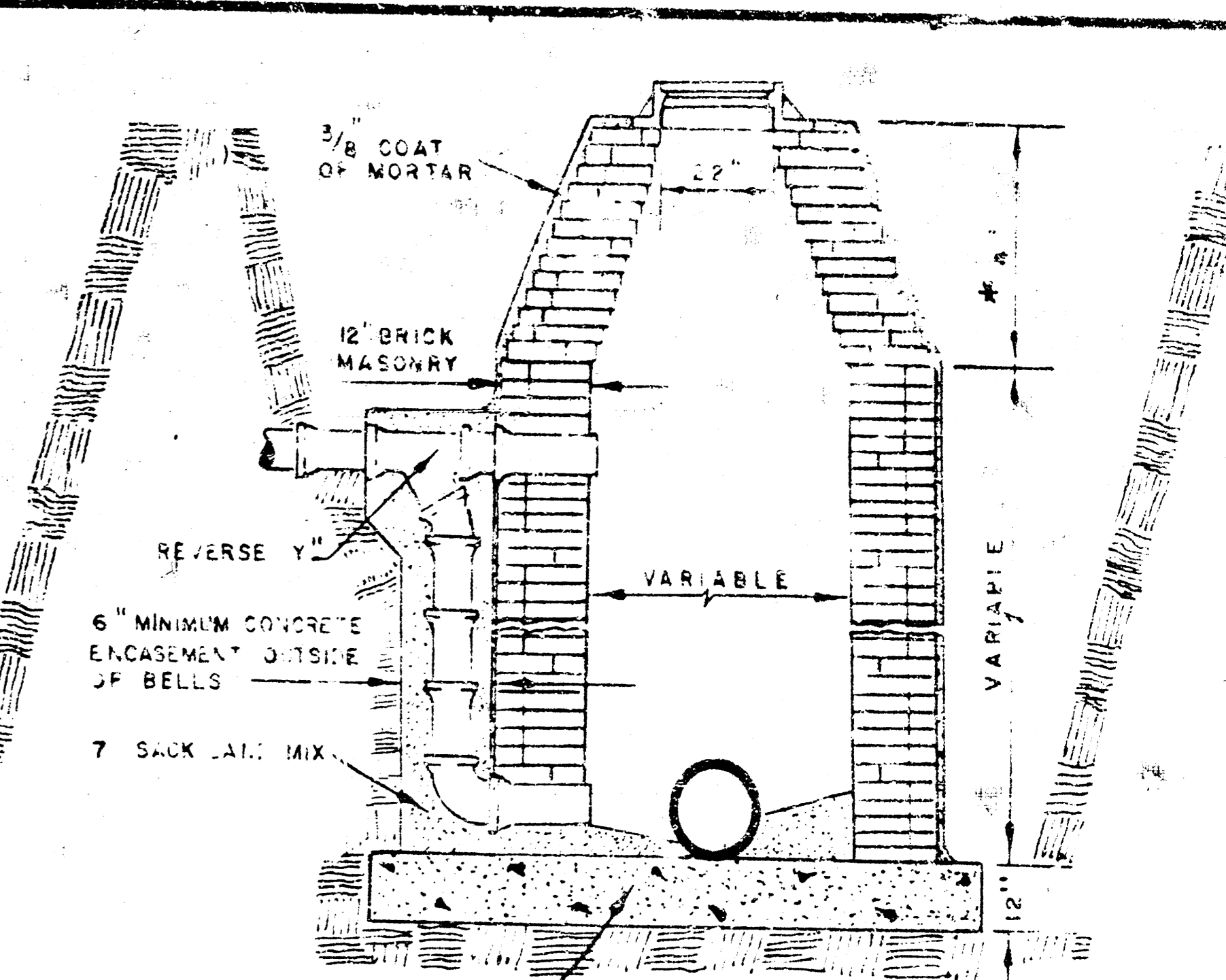
DROP MANHOLE TYPE "A"



DROP MANHOLE TYPE "B"

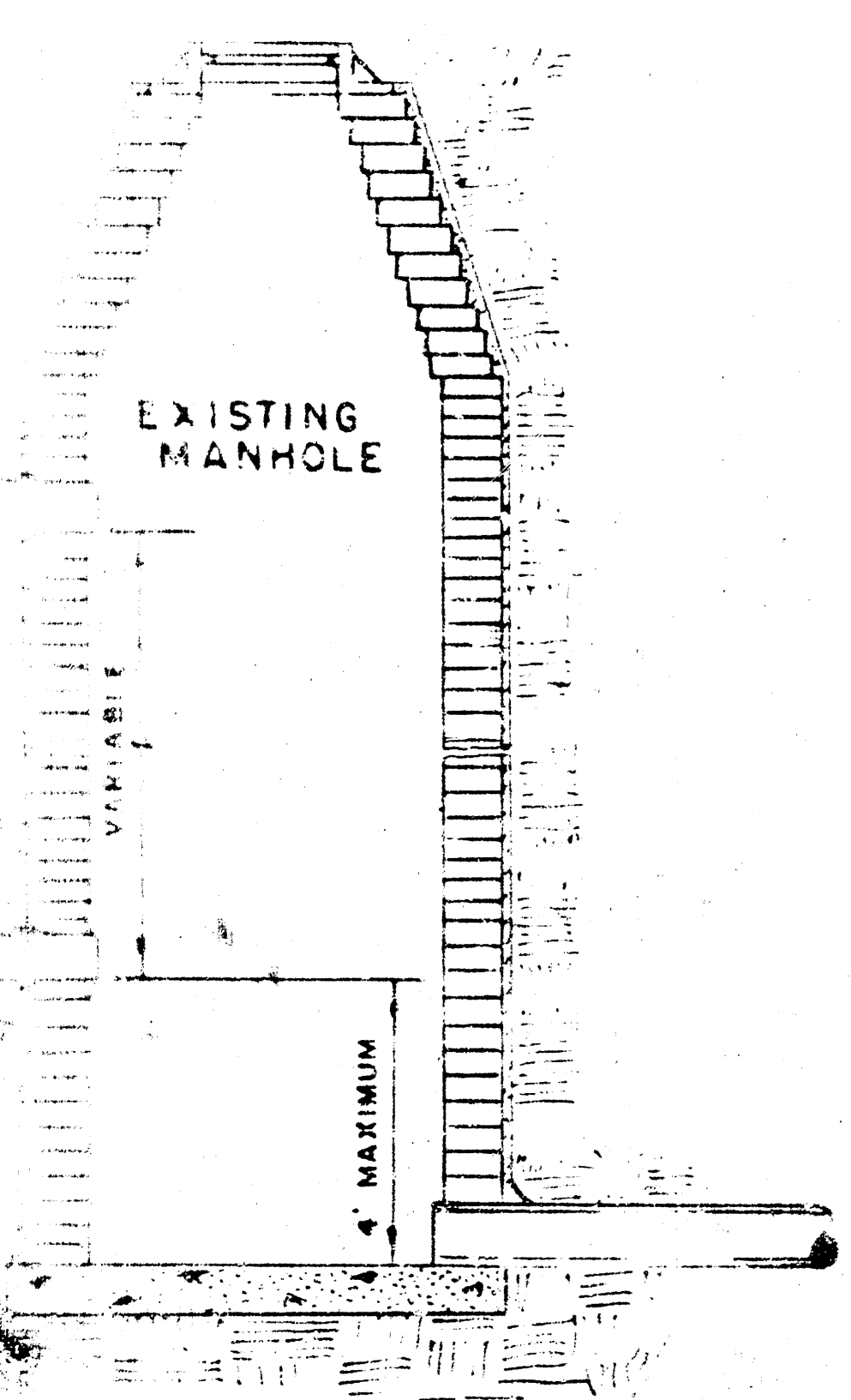


OUTSIDE DROP MANHOLE TYPE "A"

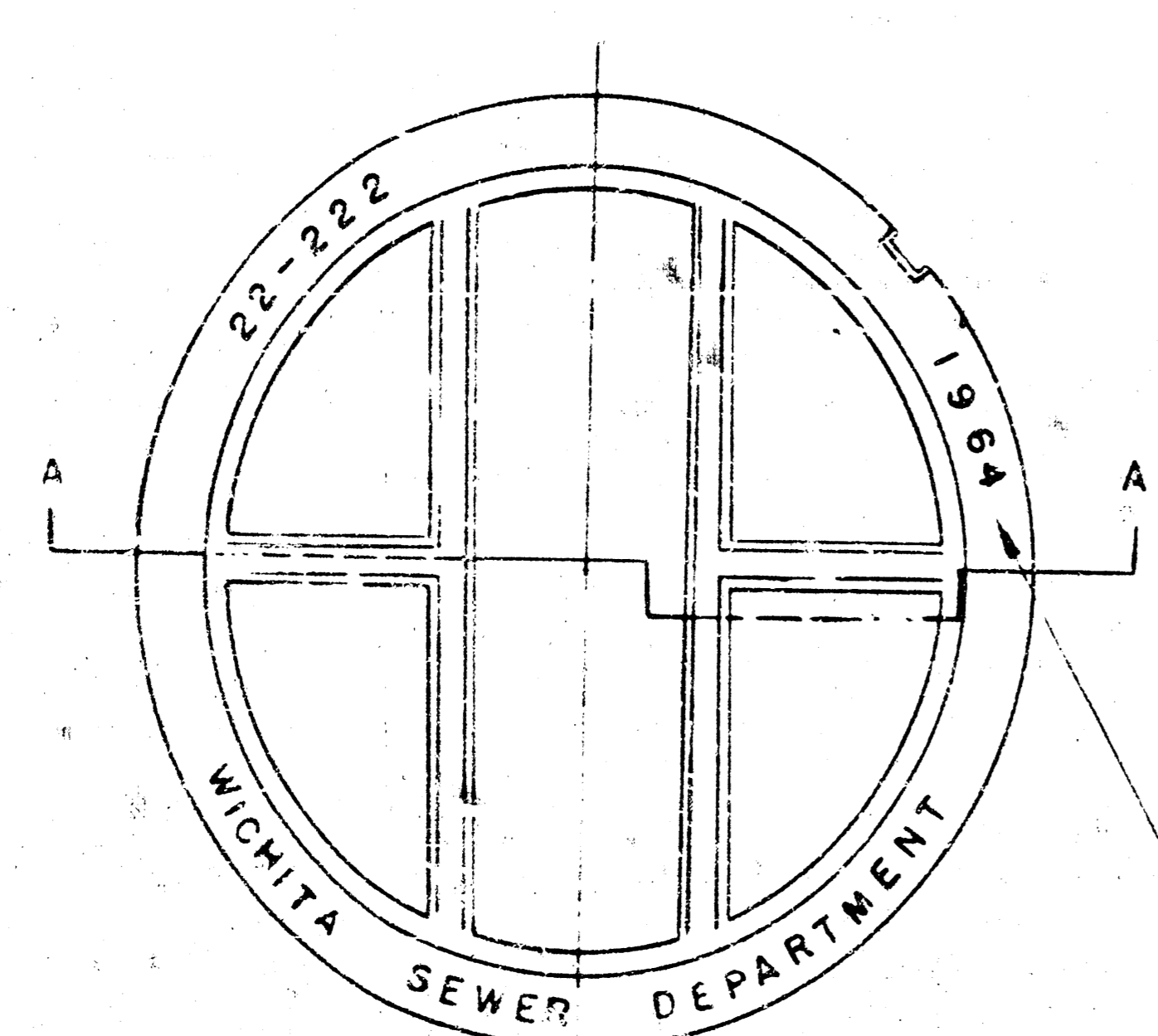


OUTSIDE DROP MANHOLE TYPE "B"

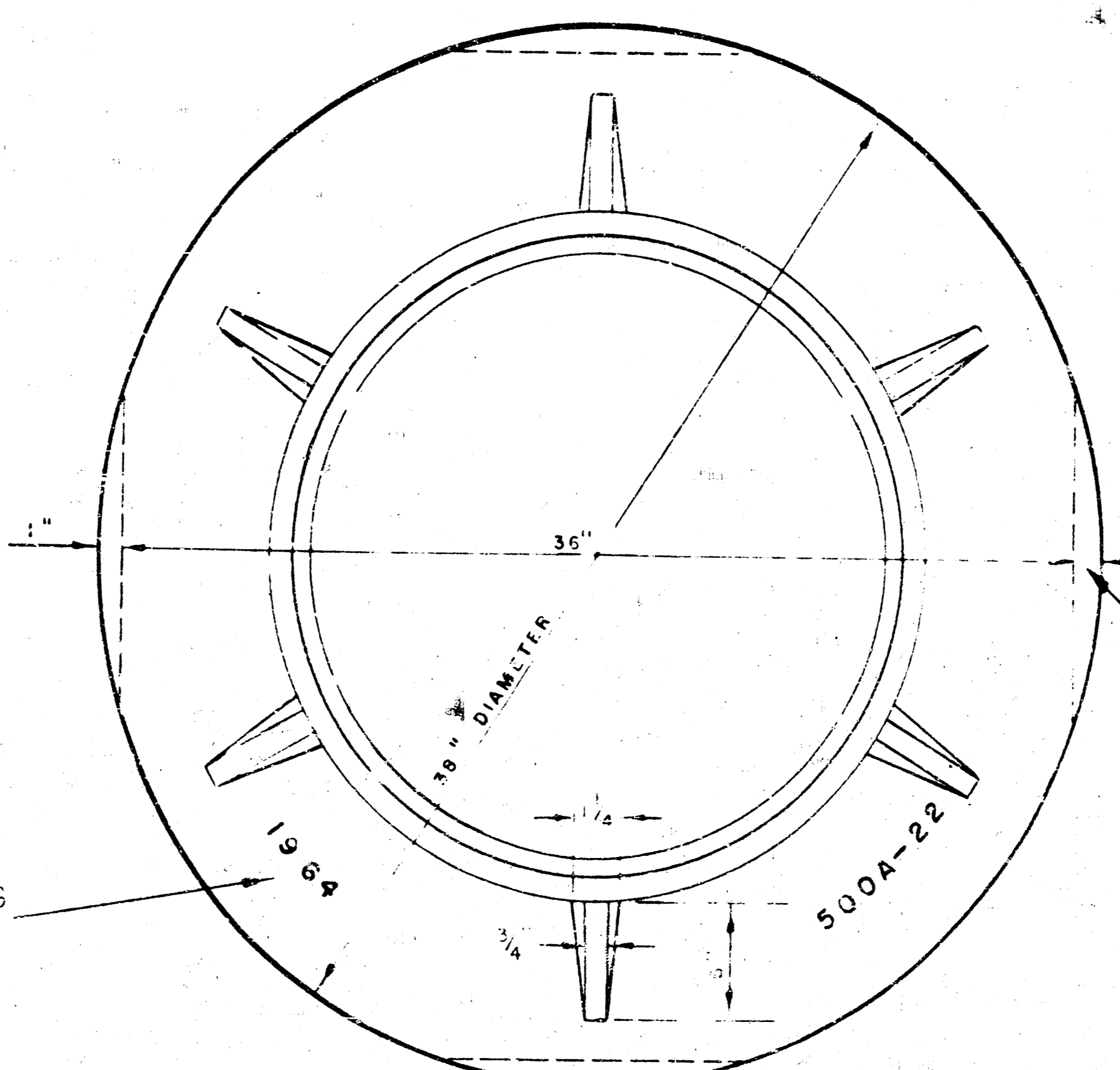
* DRAW = 6' ON 5' DIA. M.H.



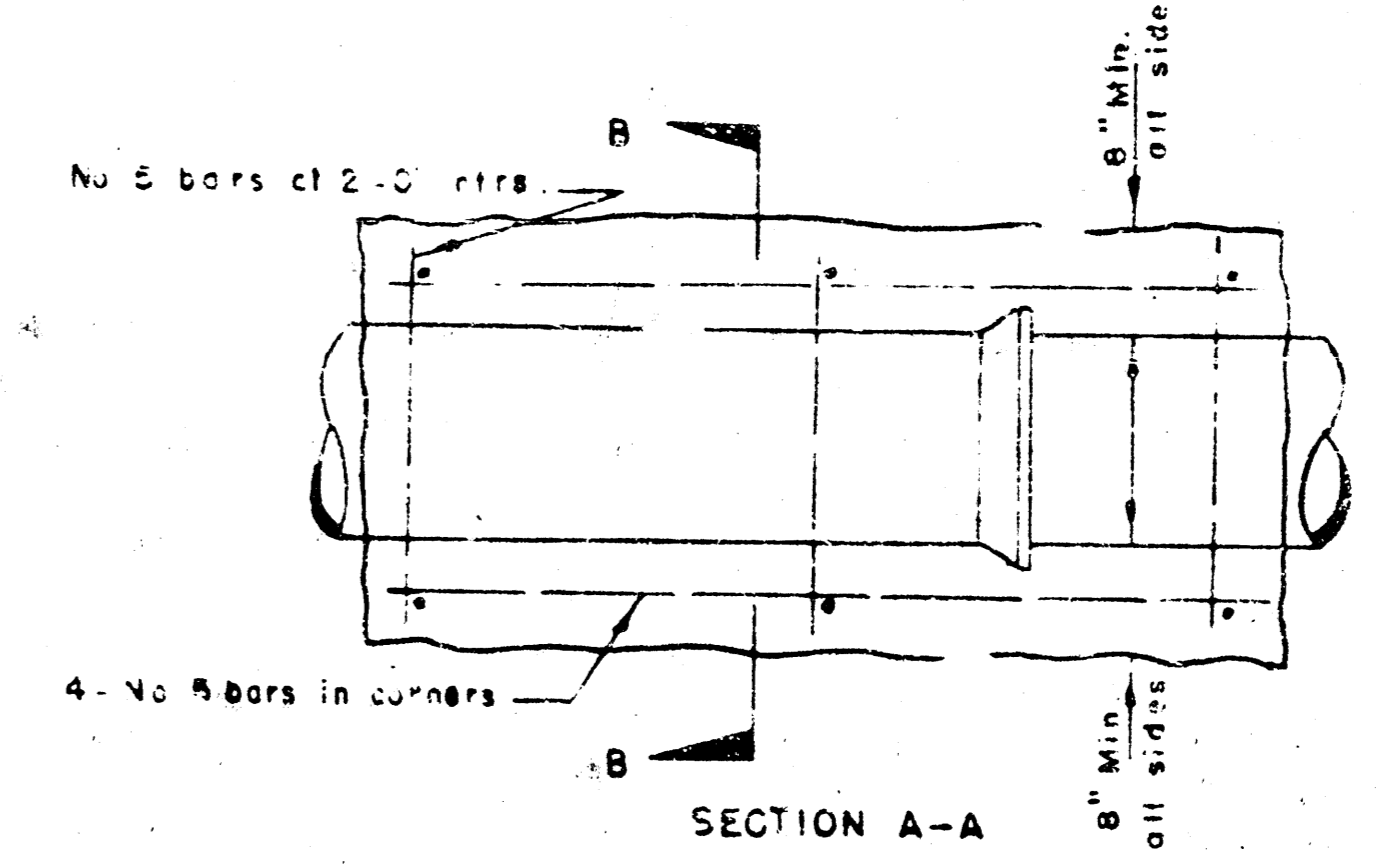
TAIL OF DROP STACK



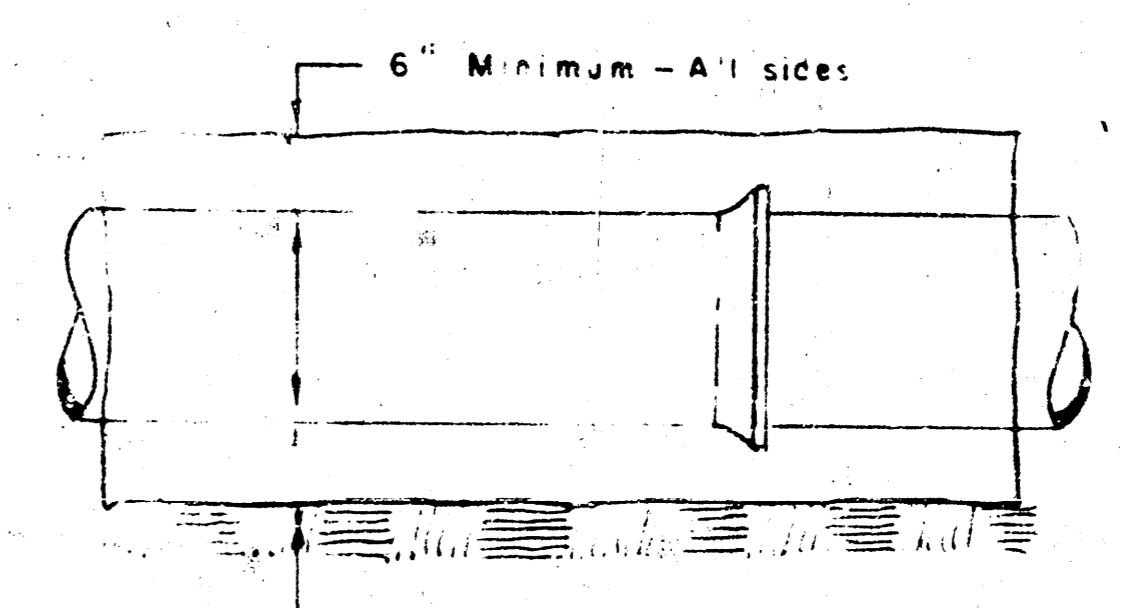
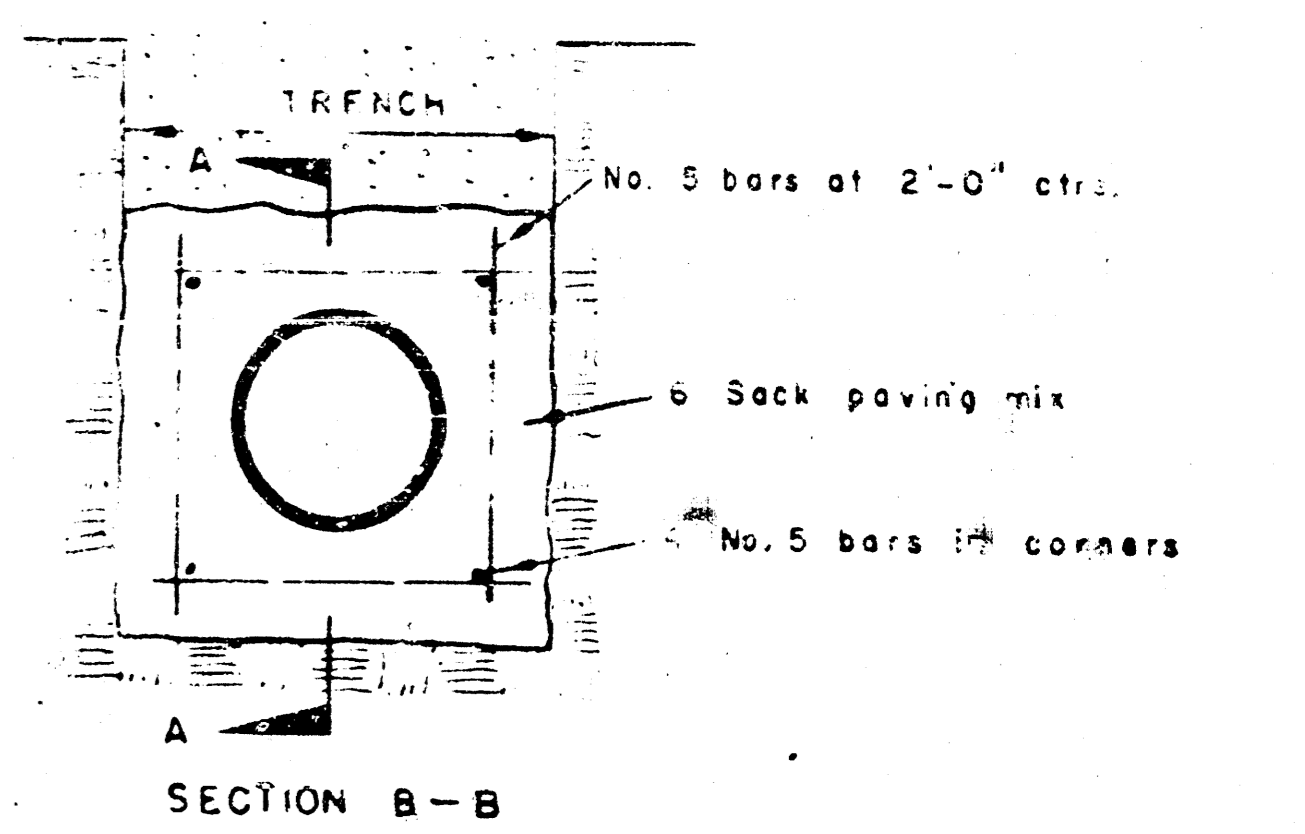
TOP VIEW
MANHOLE COVER
WEIGHT 110 lbs.



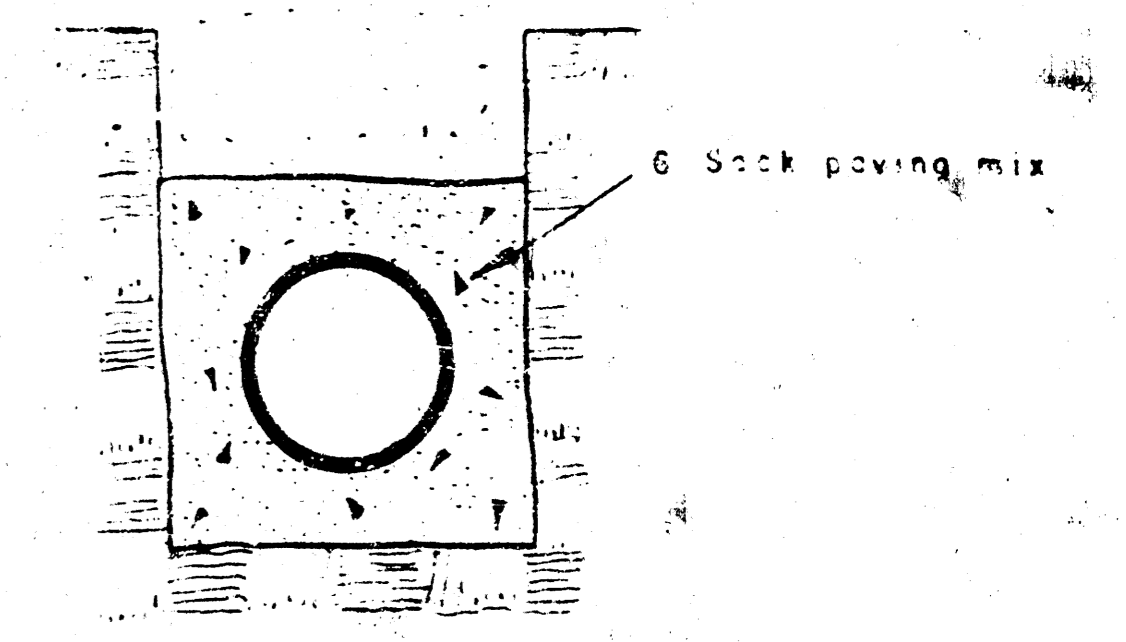
TOP VIEW
MANHOLE RING
WEIGHT 355 lbs.



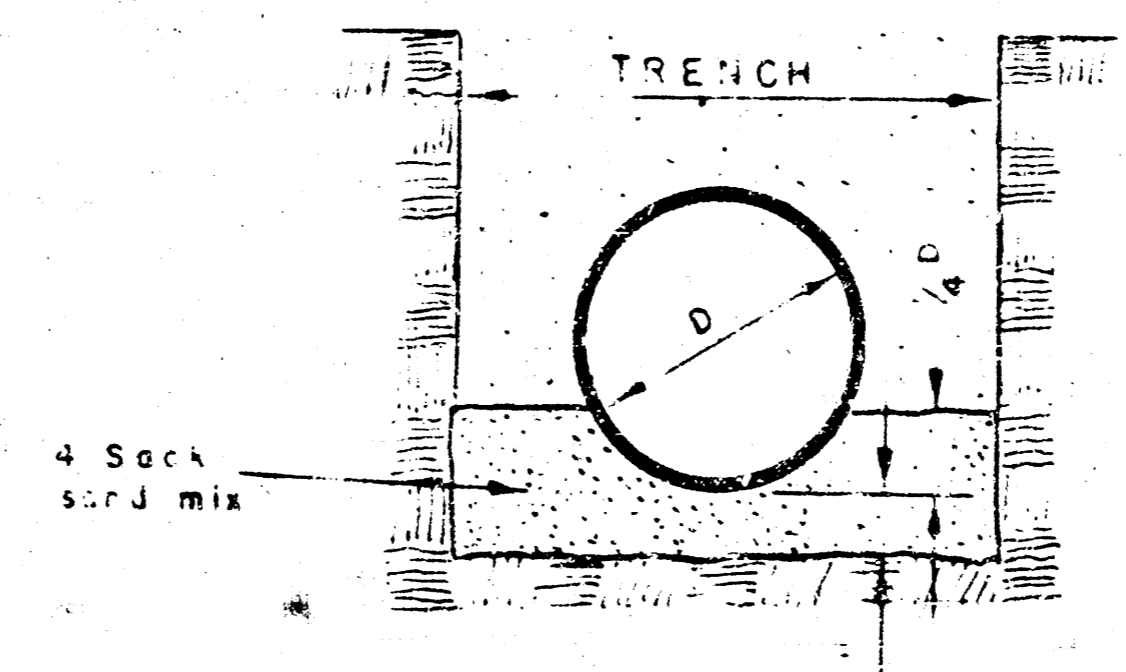
SECTION A-A
REINFORCED CONCRETE ENCASEMENT FOR STRENGTH



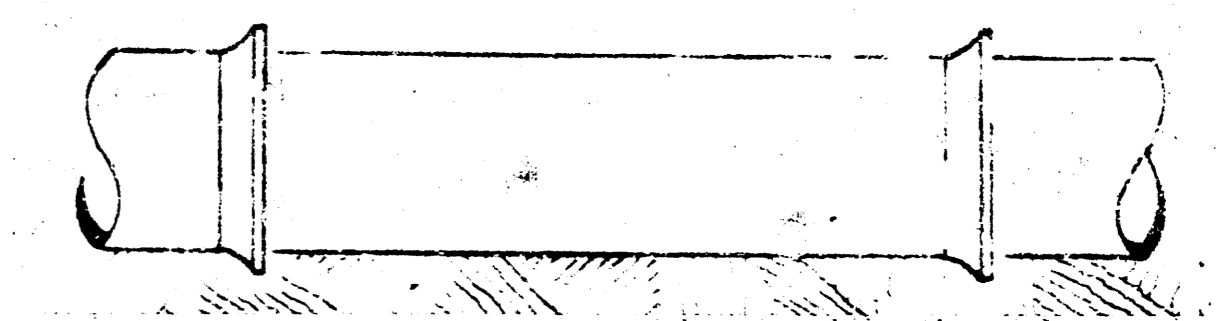
CONCRETE ENCASEMENT FOR COVER



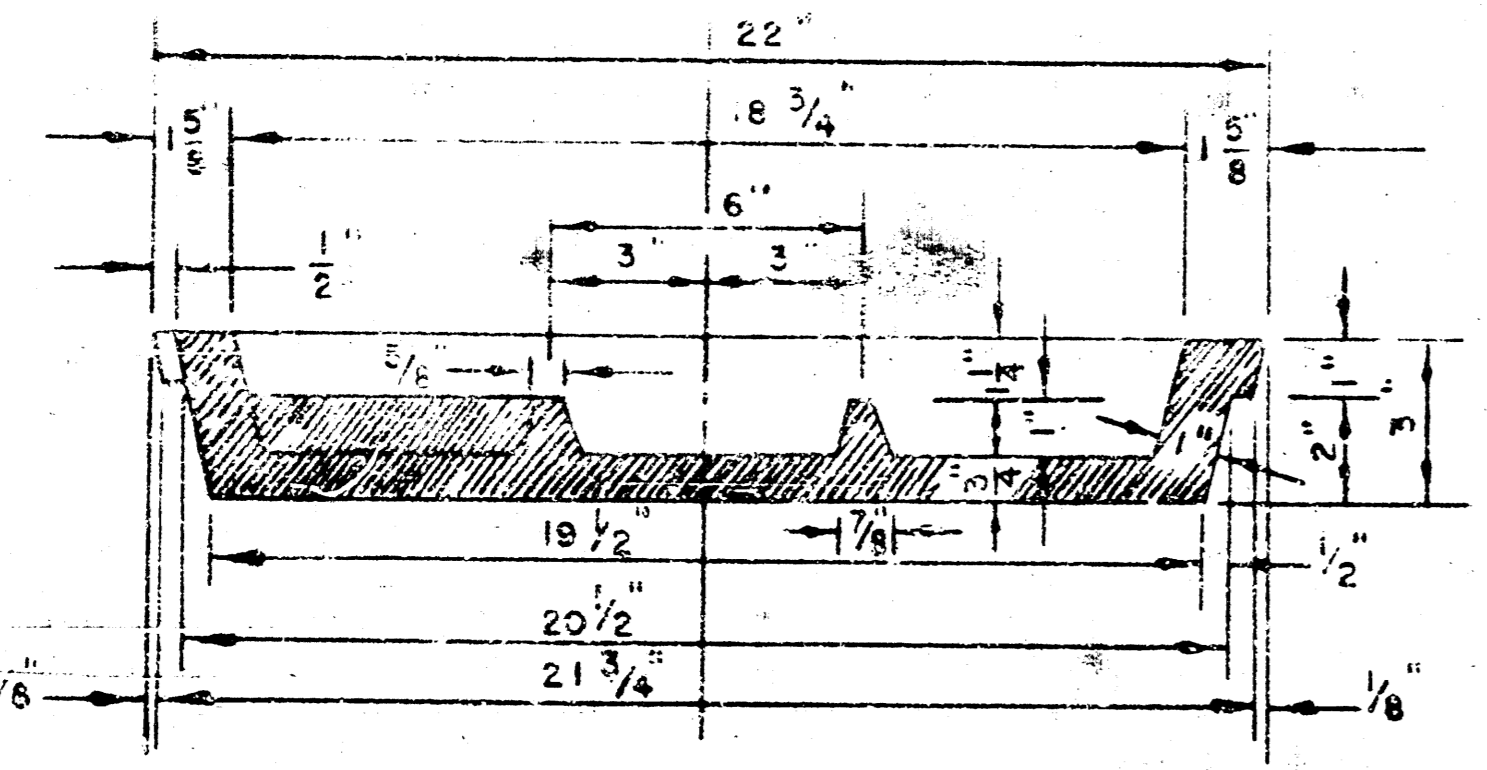
ORDINARY BEDDING METHOD FOR CLAY PIPE



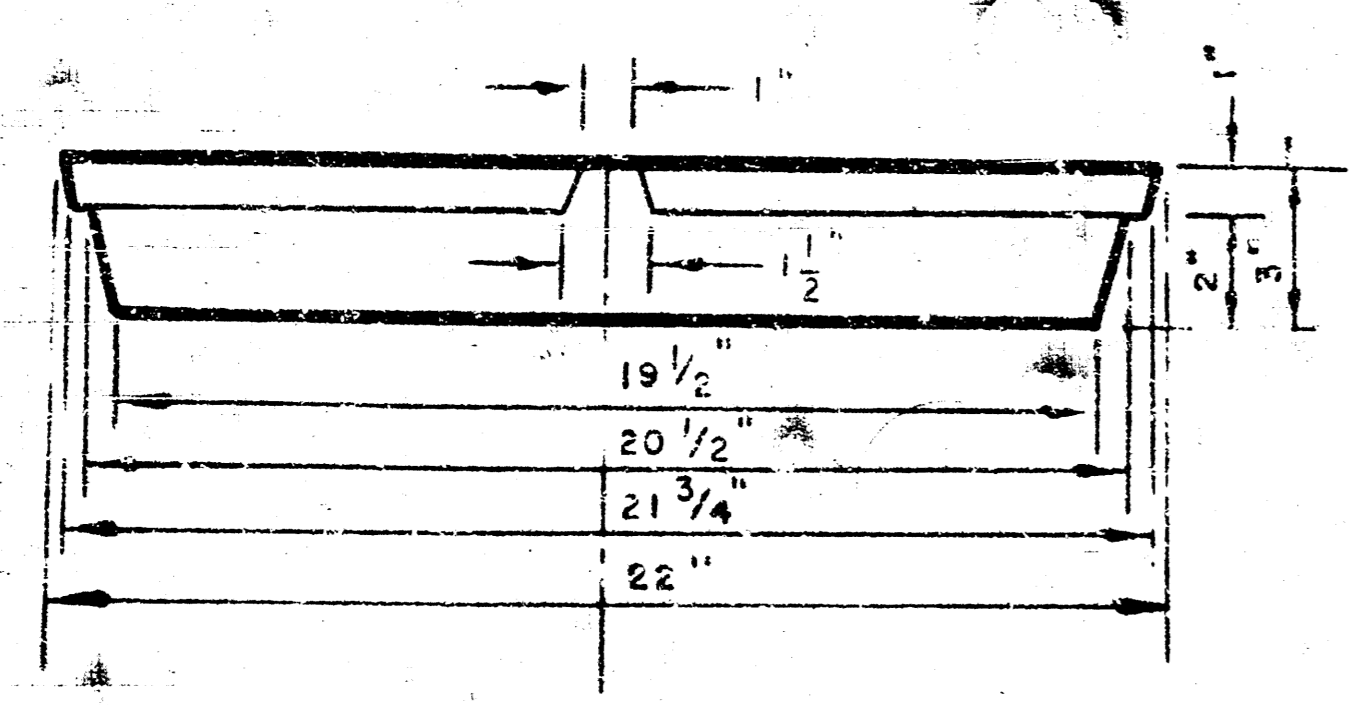
DETAIL OF CONCRETE CRADLE



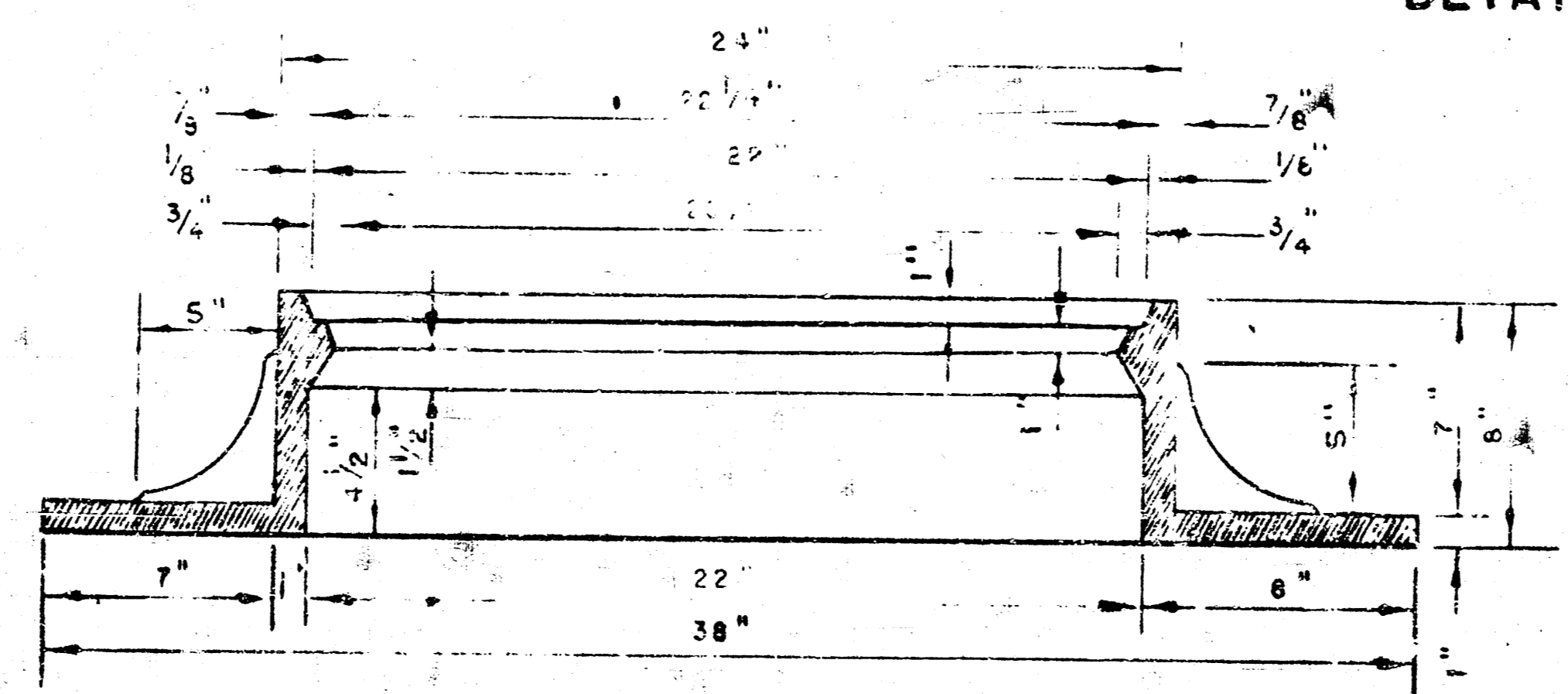
ORDINARY BEDDING METHOD FOR REINFORCED CONCRETE PIPE



SECTION A-A
MANHOLE COVER

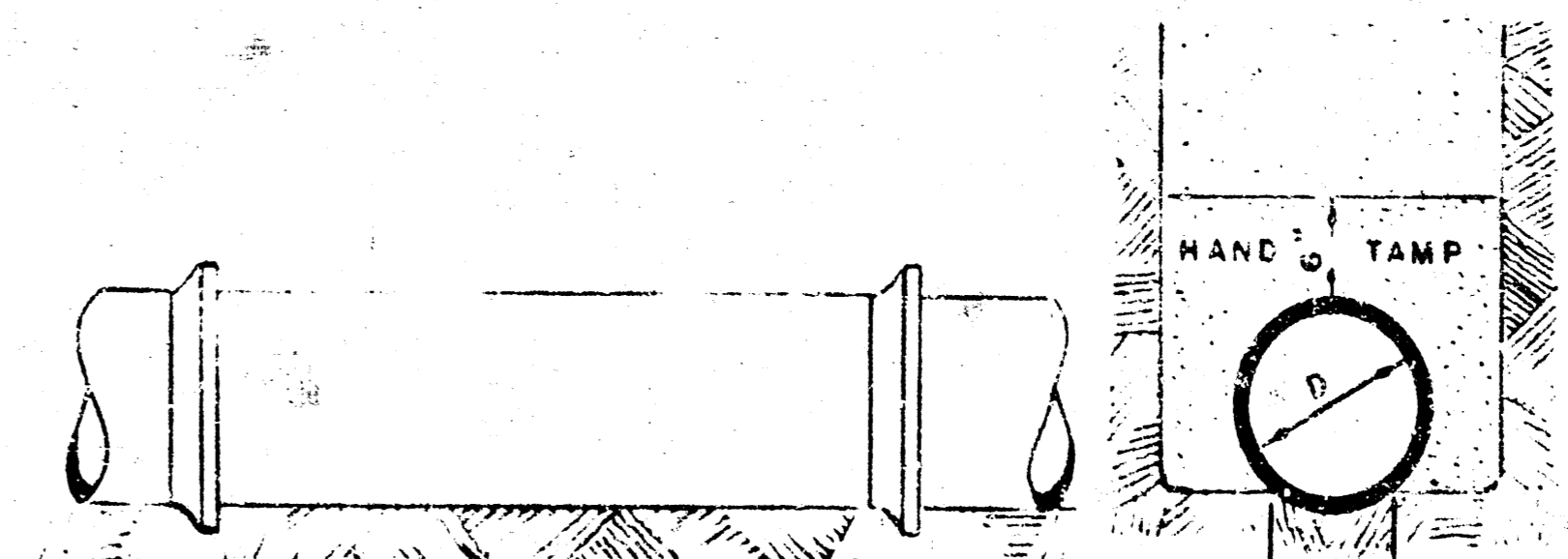


SIDE VIEW
MANHOLE COVER



SECTION
MANHOLE RING

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

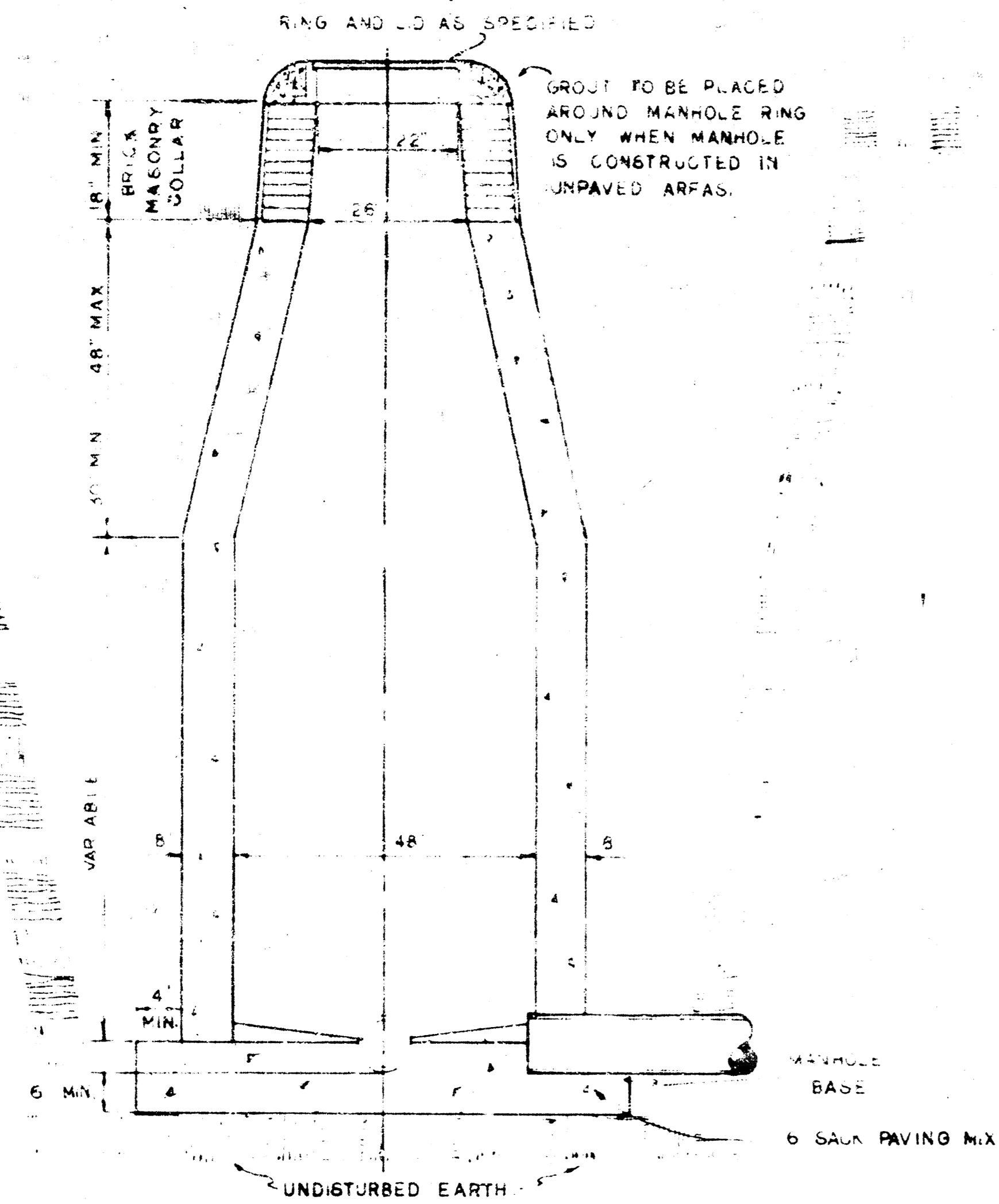


ORDINARY BEDDING METHOD FOR REINFORCED CONCRETE PIPE

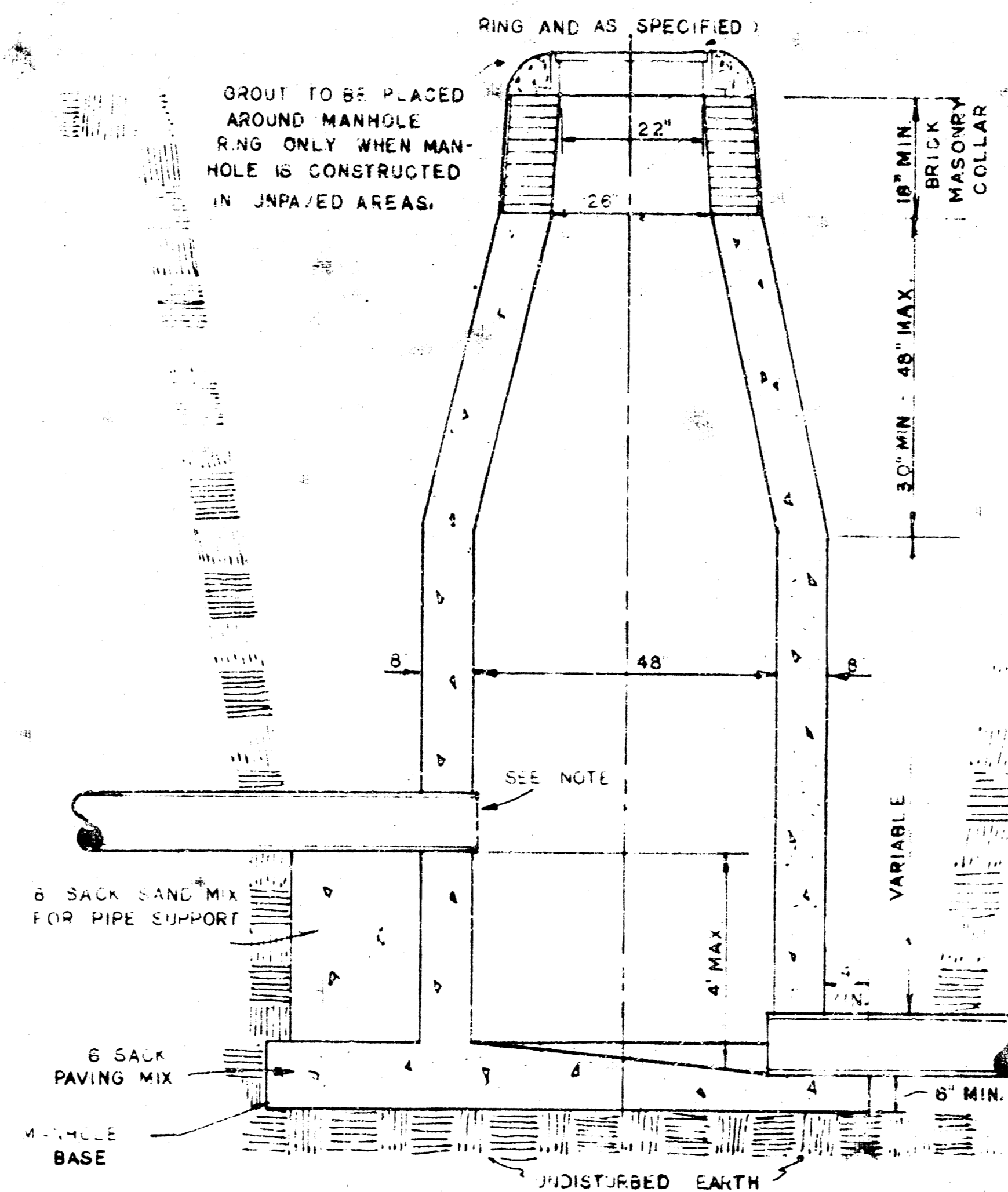
MANHOLES
THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
STANDARD MANHOLES AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.
SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.
ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 5' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN. ALL M.H.'S WITH PIPES 24" & SMALLER SHALL BE 4' DIA.

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER

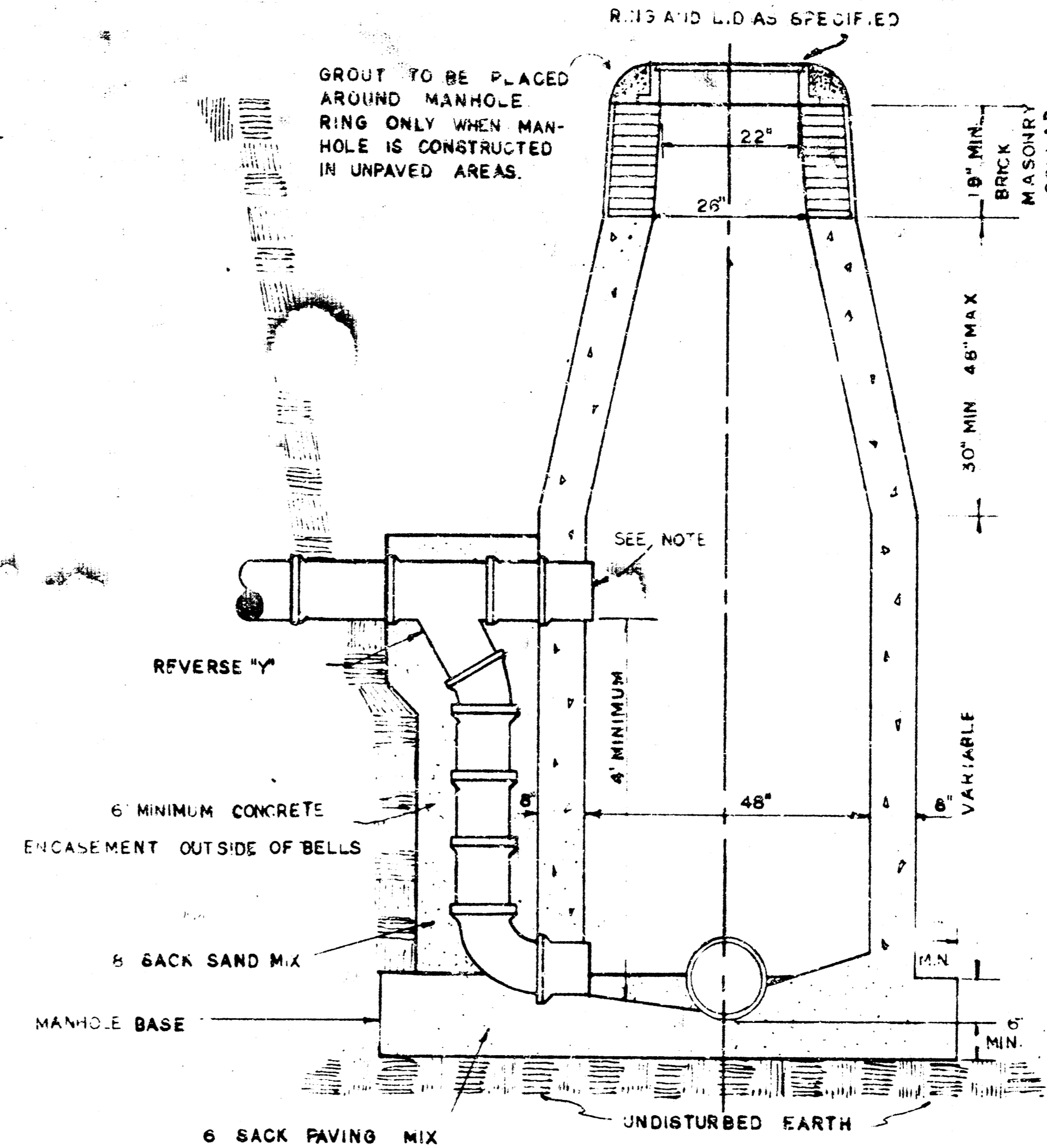
STANDARD MANHOLE, TYPE "C"



DROP MANHOLE, TYPE "C"



OUTSIDE DROP MANHOLE, TYPE "C"



GENERAL NOTES

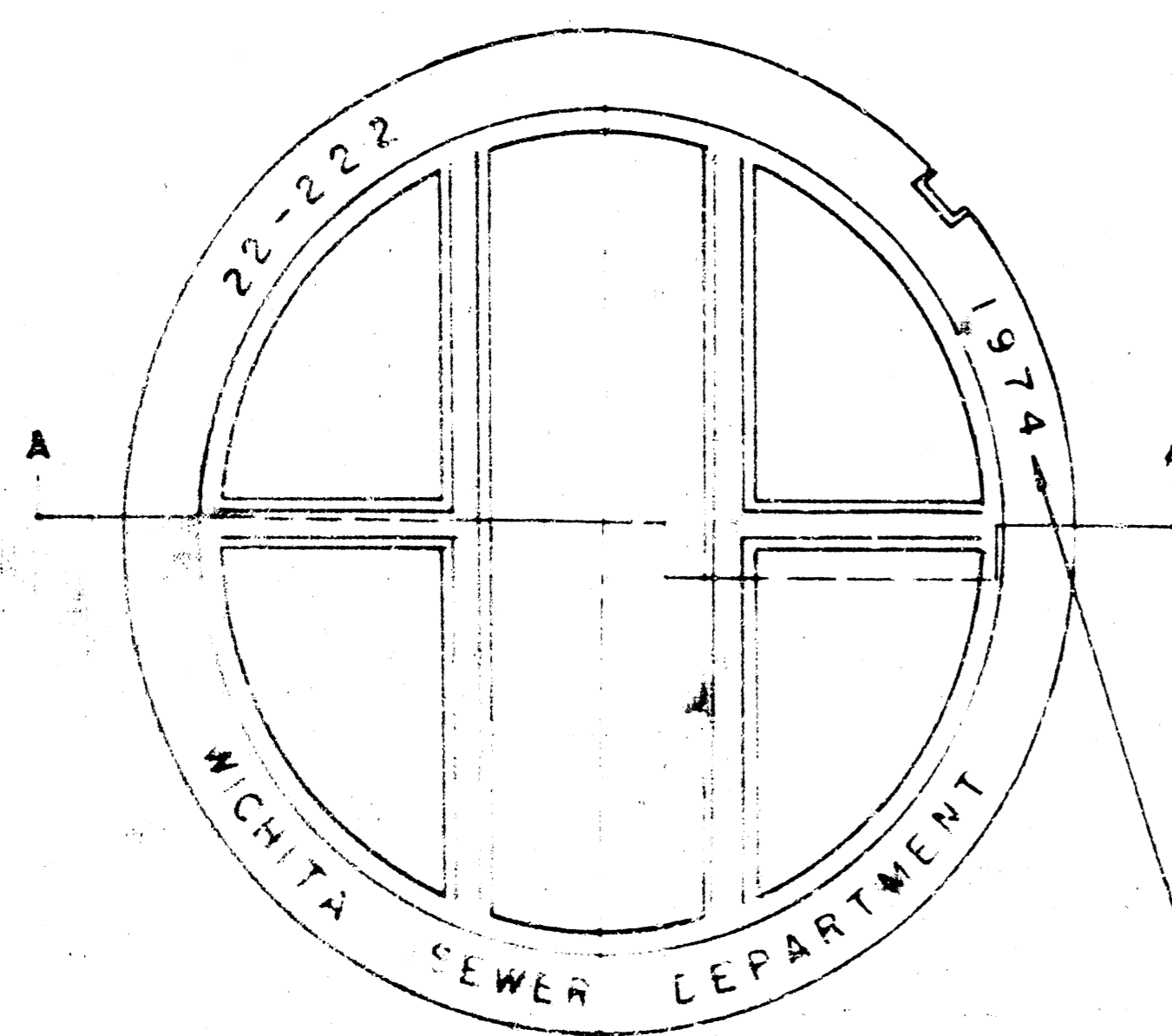
MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.

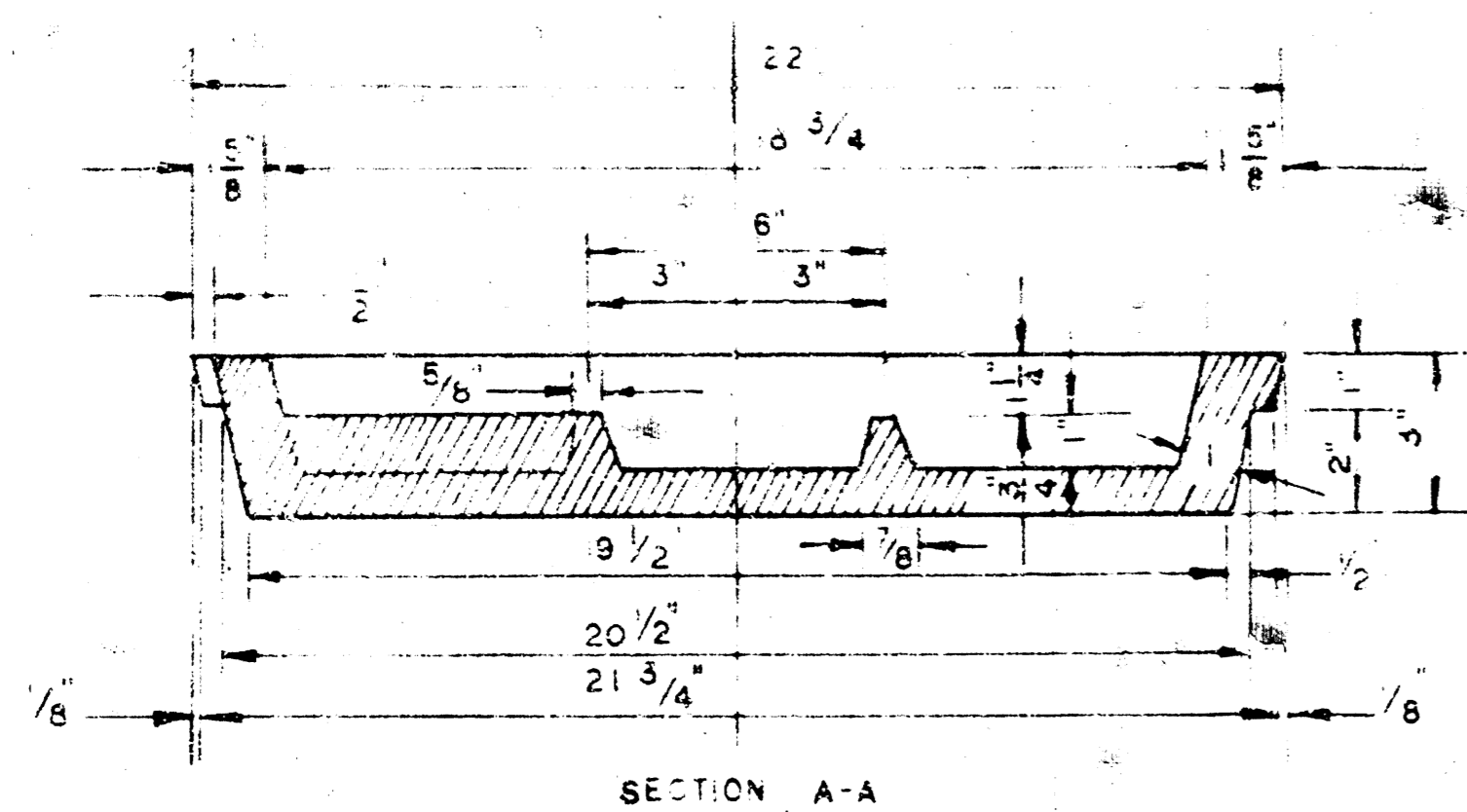
OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4 FT. UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5 FT. DIAMETER.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

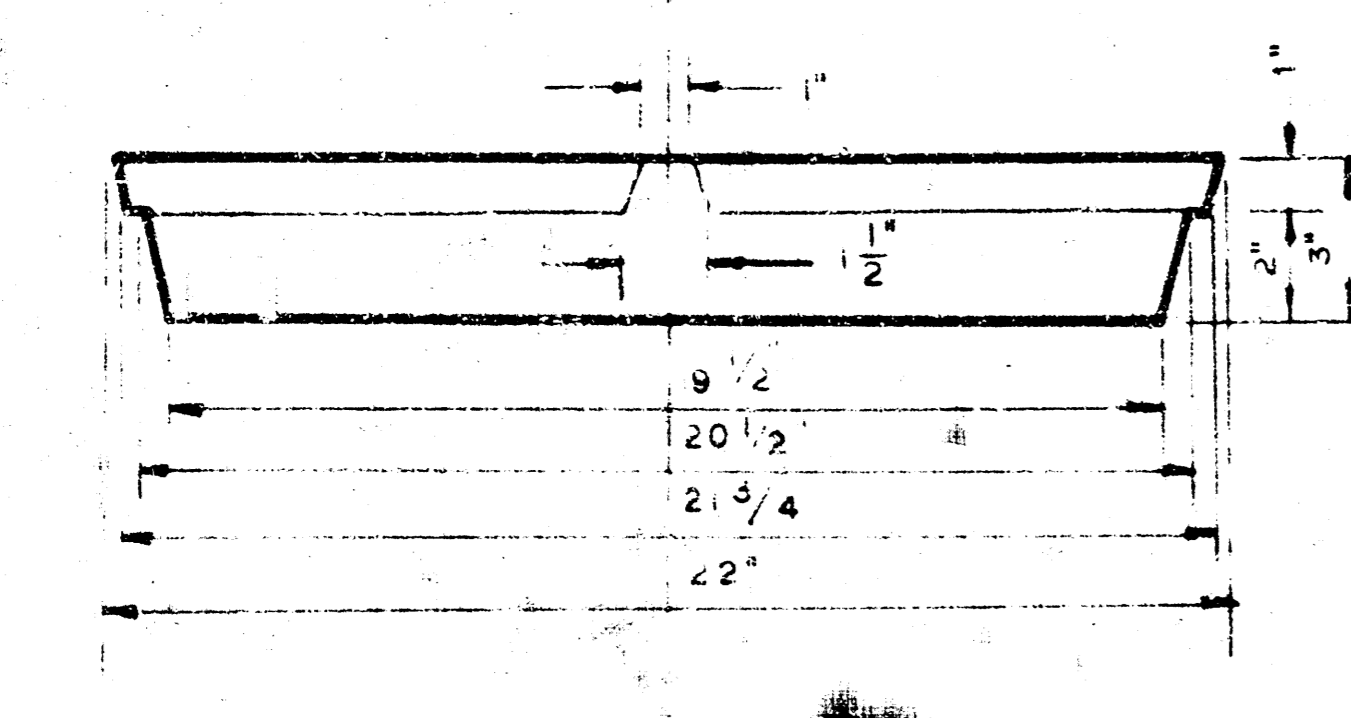
CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIORATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.



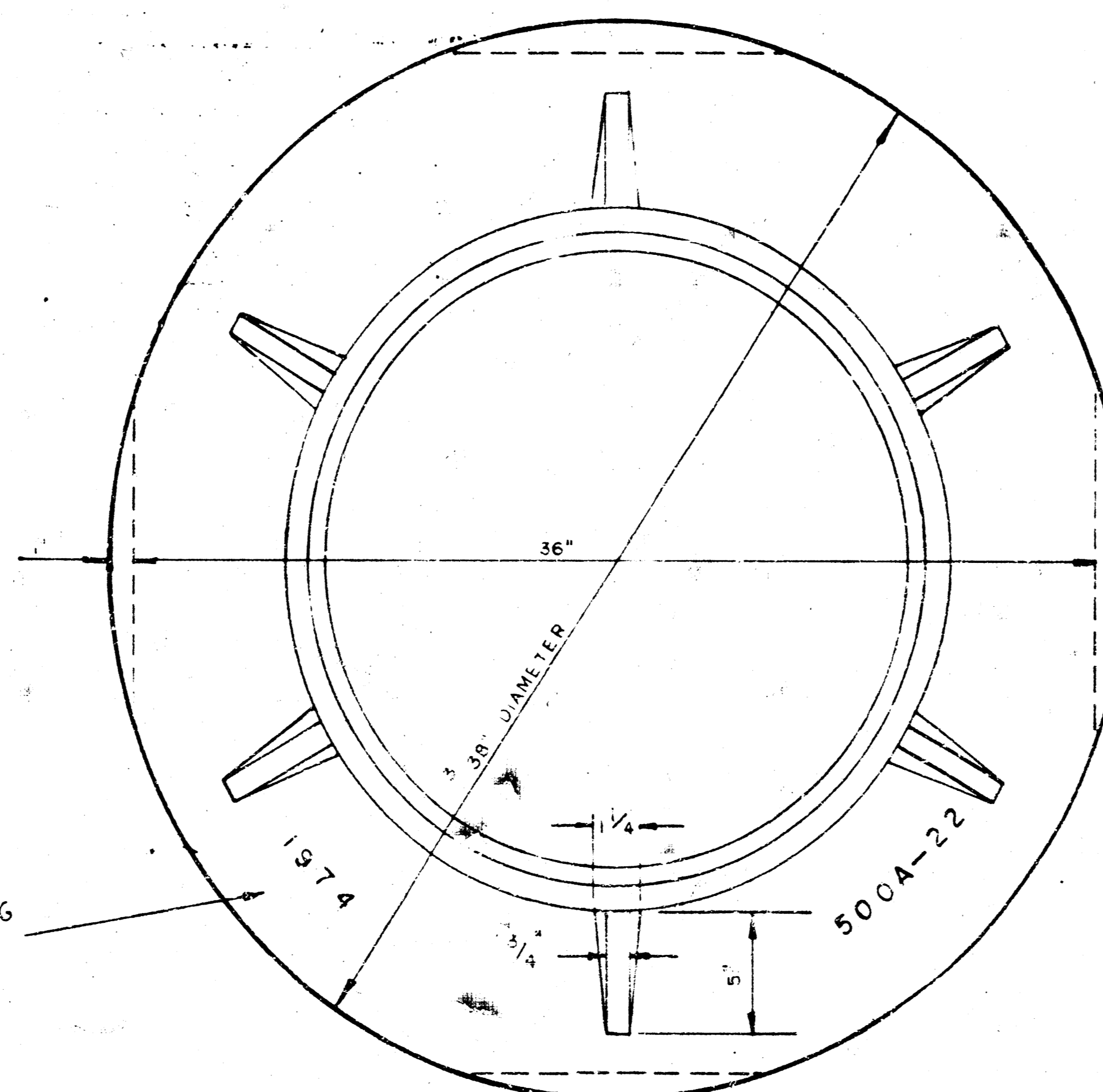
MANHOLE COVER



MANHOLE COVER

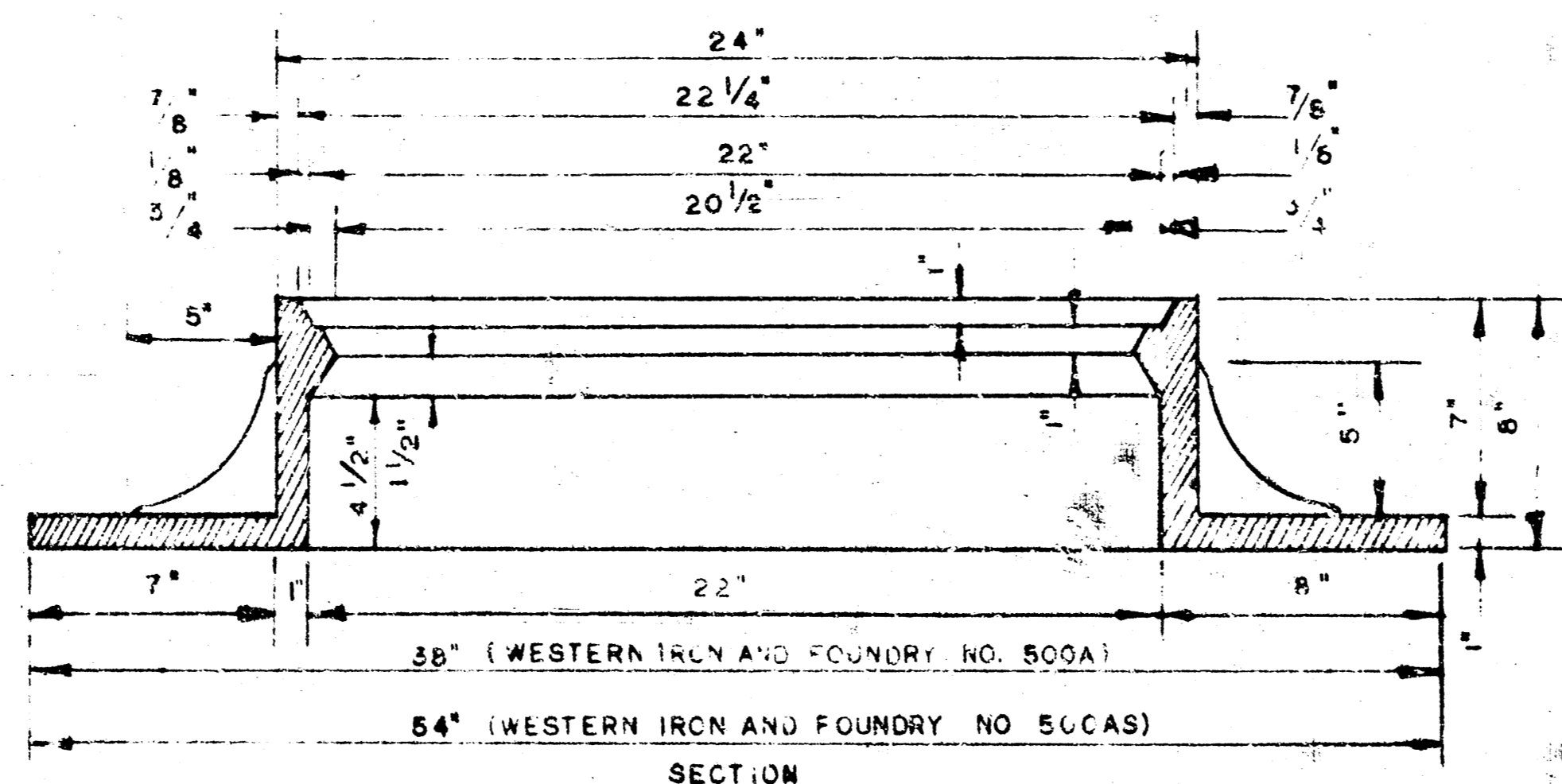


MANHOLE COLLAR

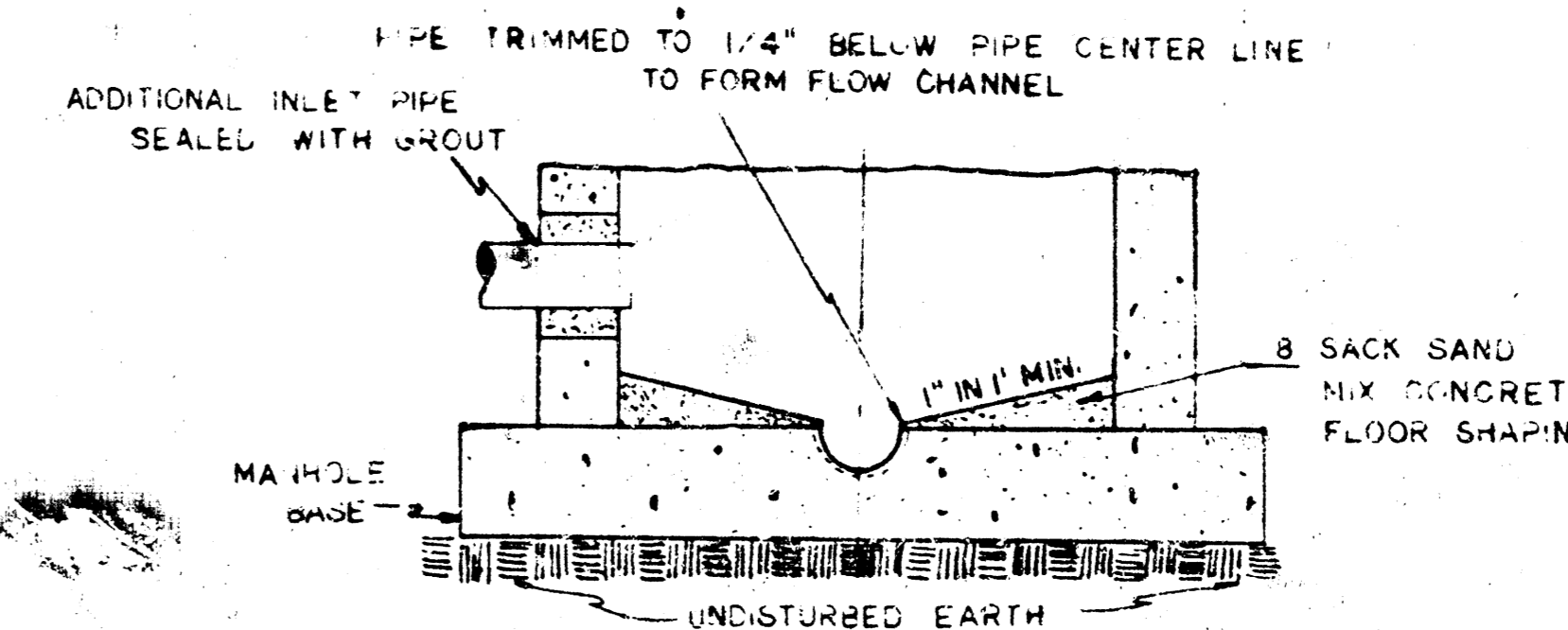


MANHOLE RING

WEIGHT 325 LBS. RING NO. 500A
WEIGHT 800 LBS. RING NO. 500AS



MANHOLE RING



SECTIONAL ELEVATION-INVERT

NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
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