PIPE GRADES

Inl. No	to Inl. No	Grade
1	2	5.20%
2	3	5.70%
2	5	0.94%
4	5	9.30%

INLET SCHEDULE

Inl. No.	Top El.	"H"	℄ in	℄ in
1	91.45	4'-0"		
2	91.42	4'-9"	87.63-E	87.63-W
3	91.39	4'-0"		
4	91.45	4'-0"		
5	91.42	6'-9"	87.17-W	86.92-N

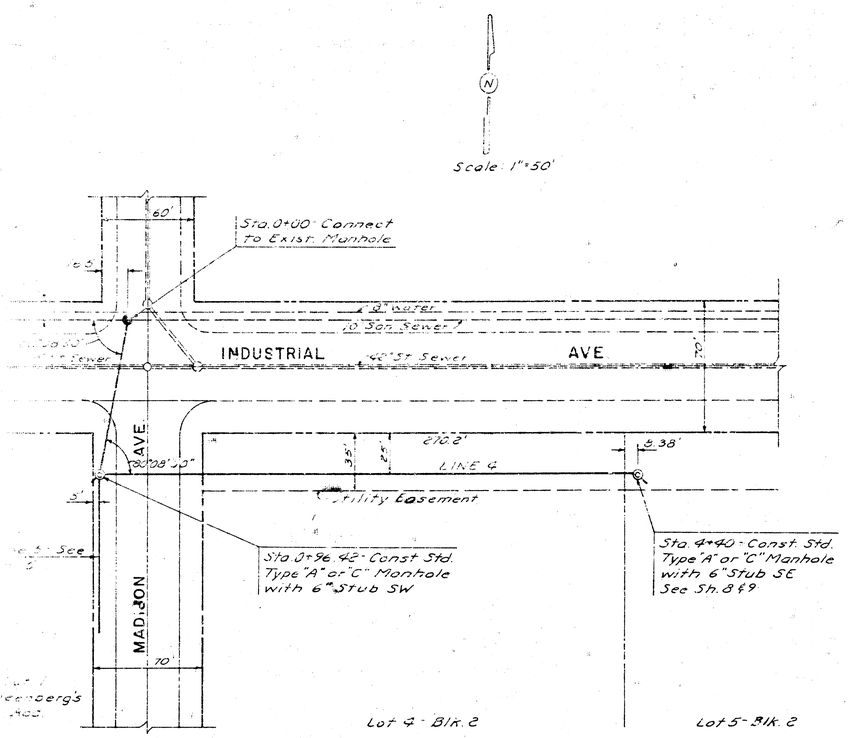
PIPE GRADES

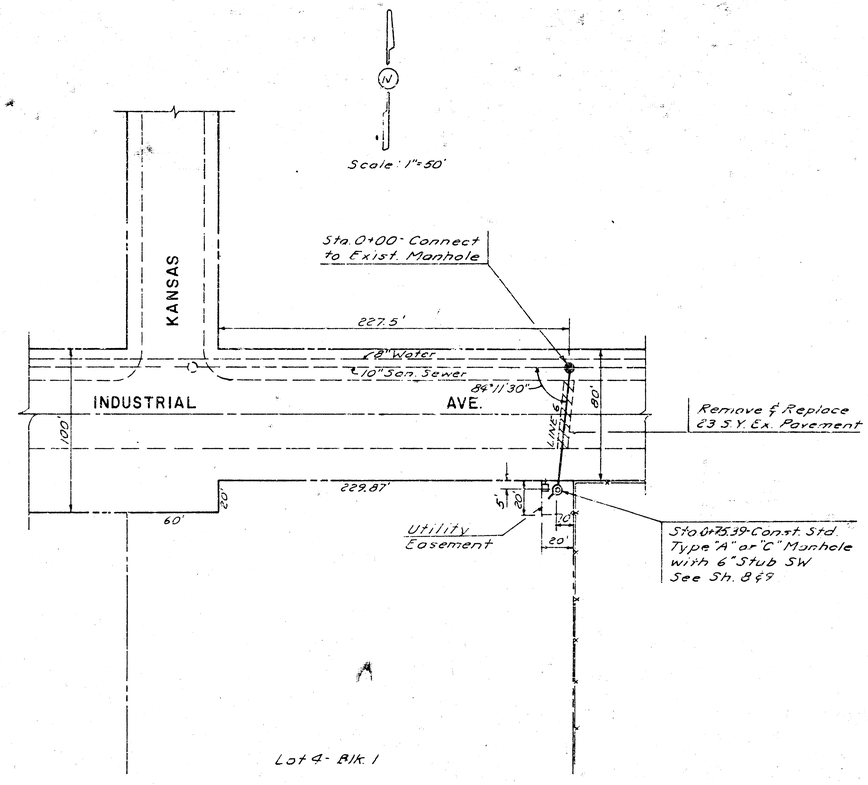
Inl. No.	to Inl. No	Grade
6	7	7.20%
7	8	7.20%
7	10	1.96%
9	10	2.40%

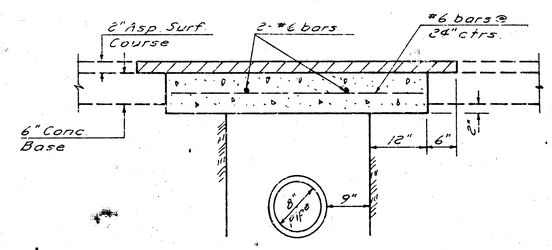
INLET SCHEDULE

Inl. No	Top El.	"H"	℄ 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"	84.58-W		84.45
10	89.92	7'-0"	84.21-W	84.21-N	83.71

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
Remove Ex. Inlet & 15" Pipe
Sta. 24+64 Lt. - Const. Std Type I-A Inlet. Remove Exist. Inlet & Extend Ex. 15" RCP to Connect New Inlet. See Sh. 10
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 I-A Inlet. Install 4 L.F. 15" R.C.P. See Sh. 10
Const. Conc. Underpinning - See Detail Right
Const. 7" Reinf. Conc. Base with 3" Asphaltic Conc. Surface
Sta. 25+11.69 - Madison & Industrial Ave.
MADISON
AVE.
LINE 5
LINE 4
INDUSTRIAL
AVE.
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 I-A Inlet Install 4 L.F. 15" R.C.P. See Sh. 10
Sta. 24+64 Rt. - Const. Std. Type I-A Inlet. Remove Exist. 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
Remove & Replace 30 S.Y. Ex. Pavement For Detail See Sh. 7
Remove Exist. Inlet & 15" Pipe
Lot 4 - Blk. 2
BM - Spk in S Face PP, 17.5' N & 23' E N.W. Cor. Greenberg's Add - El. 94.33
7" Conc. Base & 3" Asph. Overlay
#4 bars 4'-6" long @ 4'-6" ctrs. (field bend)
Exist. Pvmt.
#4 bars
CONC. UNDERPINNING DETAIL
Note: All bars unless otherwise noted.
#4 bars = 90 L.
#6 bars = 273 L.
#4 bars × 3'-0" @ 2'-6" ctrs.
Key Joint
2'-6" Curb & Gutter
INTERSECTION REINFORCING DETAILS
Exist. Ground
235 L.F. 8" VCP or ABS @ -0.40%
LINE 5
Top Curb Lt. & Rt. -1.64%
50' V.C.
Exist. Ground
Top of Curb Lt. & Rt. -0.32%
No V.C.
TC Lt. & Rt. 91.71
Proposed 8" San. Sewer
Top Curb Lt. & Rt.
94.48
94.07
93.66
93.25
92.87
92.51
92.35
92.27
92.19
92.11
92.03
91.95
91.87
91.79
91.71
91.68

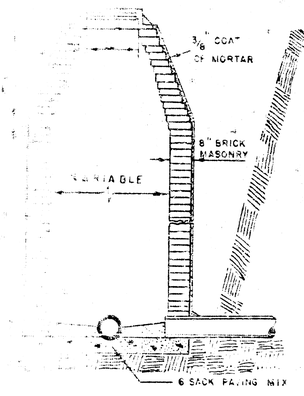




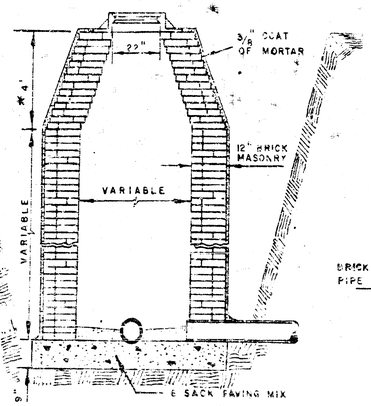


PAVEMENT CUT DETAIL

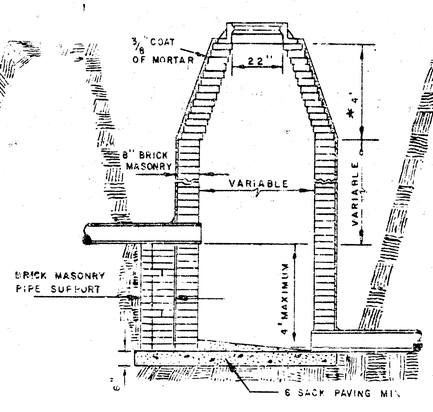
B.M. - Spk. in S. Face PP, 17.5' N & 23' E. NW Cor. Greenberg's Add. - Elev. 99.33



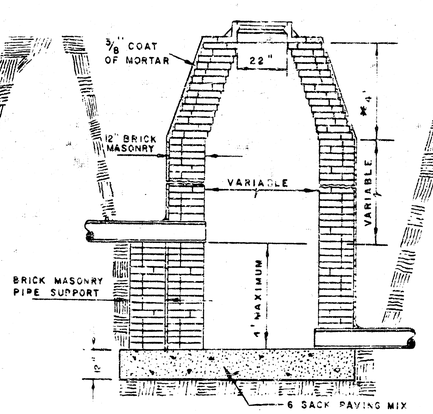
STANDARD MANHOLE
TYPE "A"



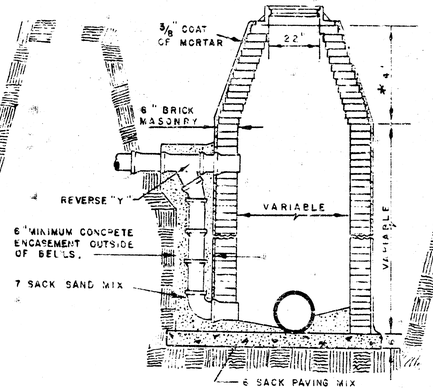
STANDARD MANHOLE
TYPE "B"



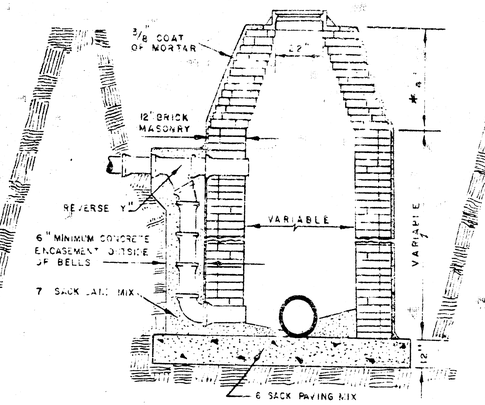
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

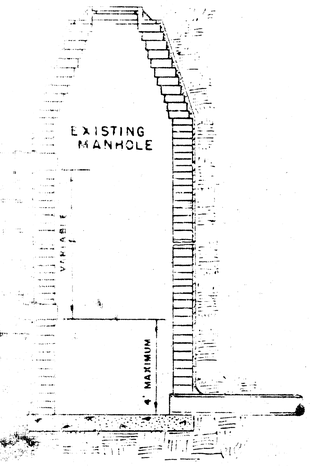


OUTSIDE DROP MANHOLE
TYPE "A"



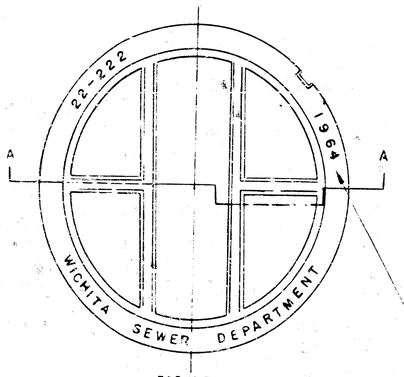
OUTSIDE DROP MANHOLE
TYPE "B"

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



TAIL OF DROP STACK

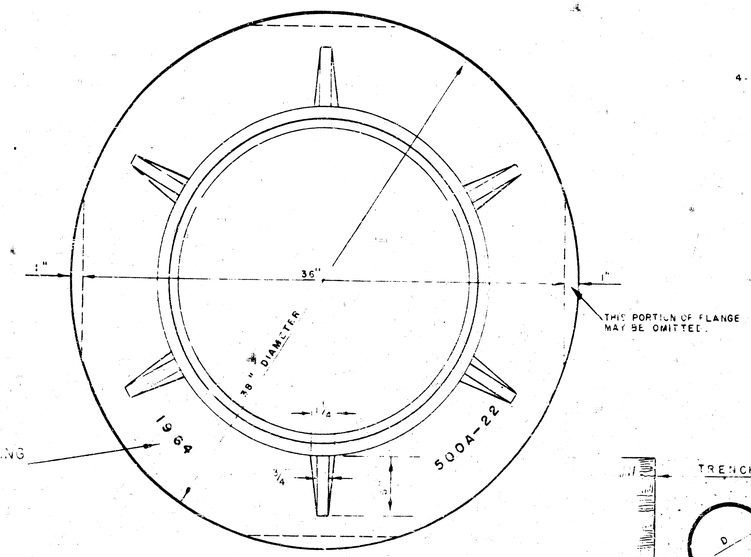
FOR MANHOLES IN GROUND WATER



TOP VIEW

MANHOLE COVER

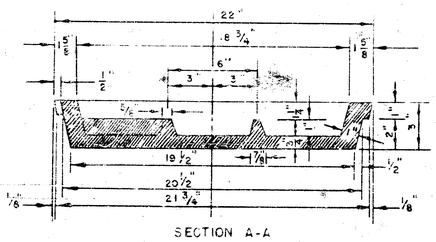
WEIGHT 110 lbs.



TOP VIEW

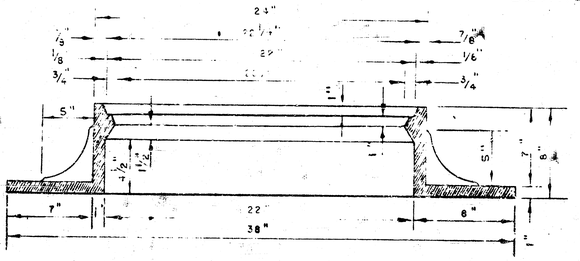
MANHOLE RING

WEIGHT 355 lbs.



SECTION A-A

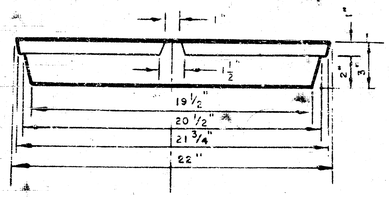
MANHOLE COVER



SECTION

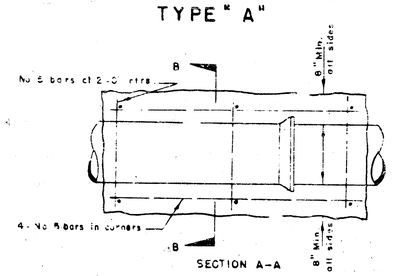
MANHOLE RING

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



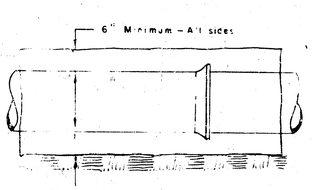
SIDE VIEW

MANHOLE COVER



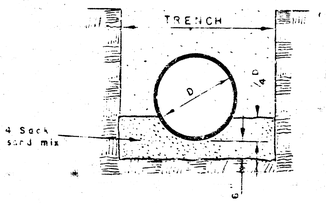
REINFORCED CONCRETE ENCASEMENT

FOR STRENGTH

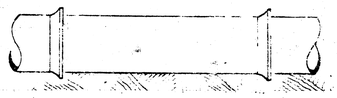


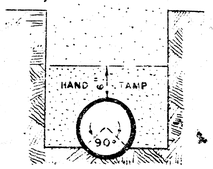
CONCRETE ENCASEMENT

FOR COVER



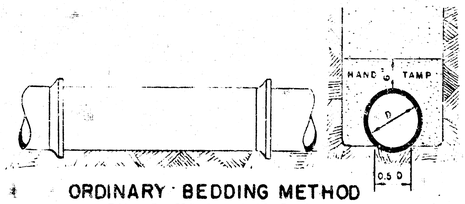
DETAIL OF CONCRETE CRADLE





ORDINARY BEDDING METHOD

FOR CLAY PIPE



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

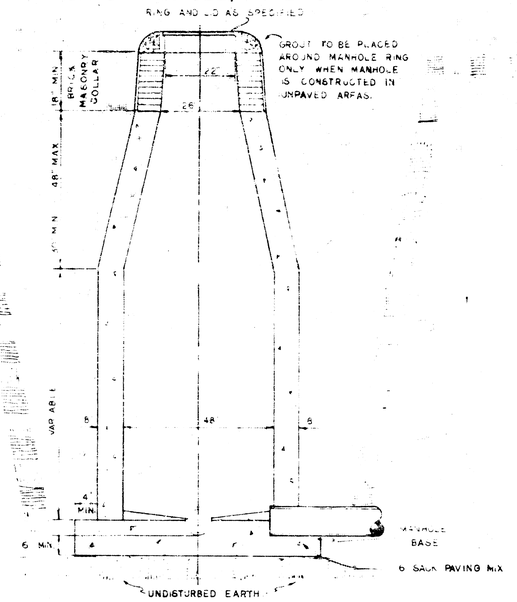
BY

ENGINEERING DIVISION

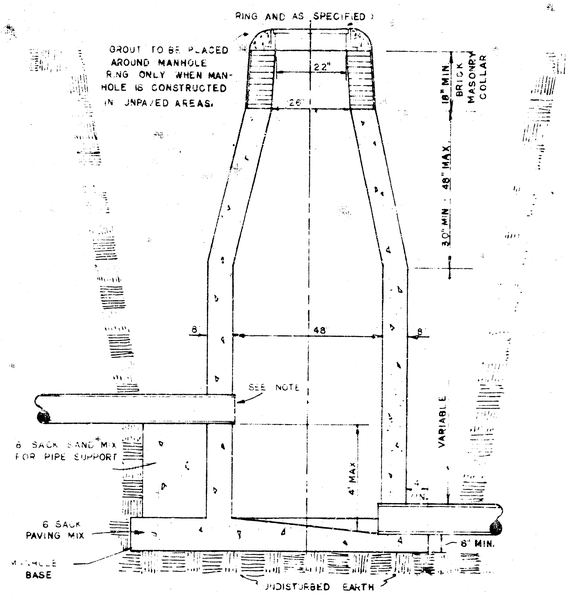
CITY OF WICHITA, KANSAS

R. W. LINN CITY ENGINEER

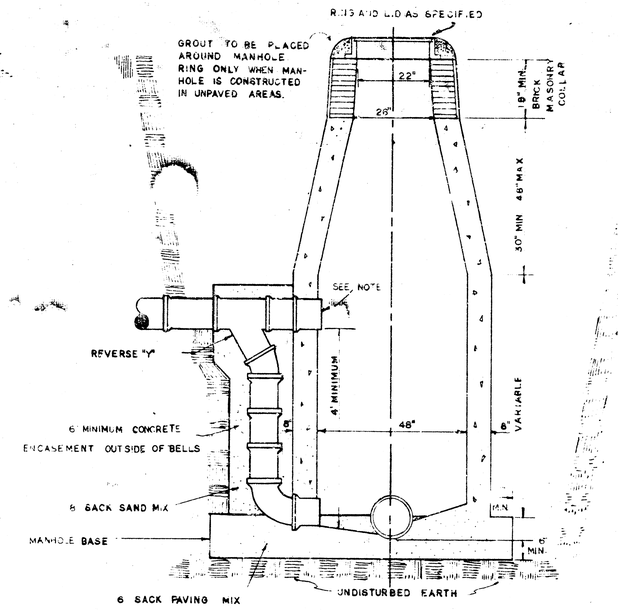
STANDARD MANHOLE, TYPE "C"



DROP MANHOLE, TYPE "C"



OUTSIDE DROP MANHOLE, TYPE "C"



GENERAL NOTES

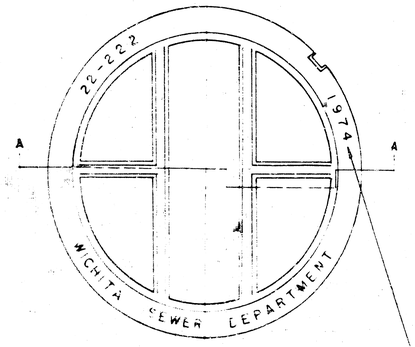
MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

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

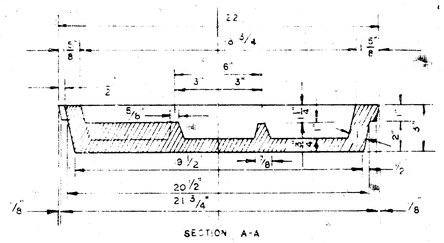
OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4FT. UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5FT. DIAMETER.

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

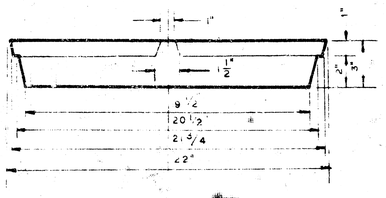
CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE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



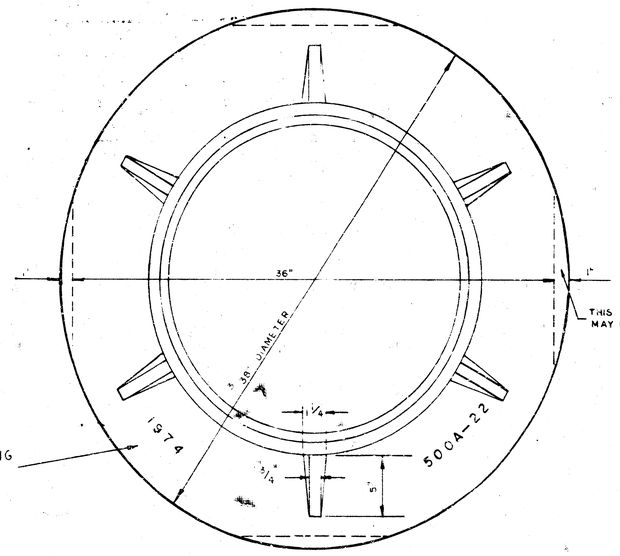
MANHOLE COVER



MANHOLE COVER



MANHOLE COVER

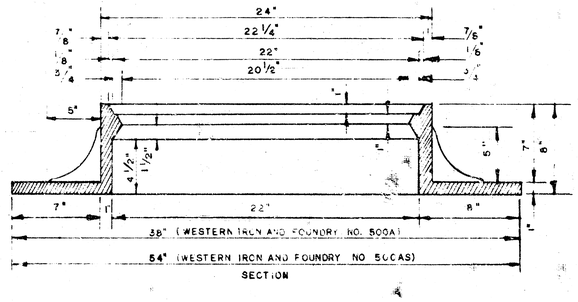


OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF MANHOLE FIT

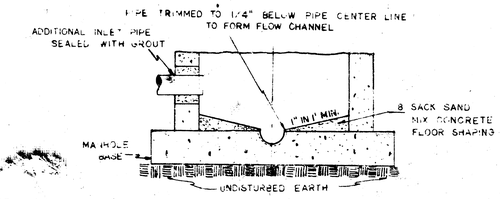
MANHOLE RING

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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