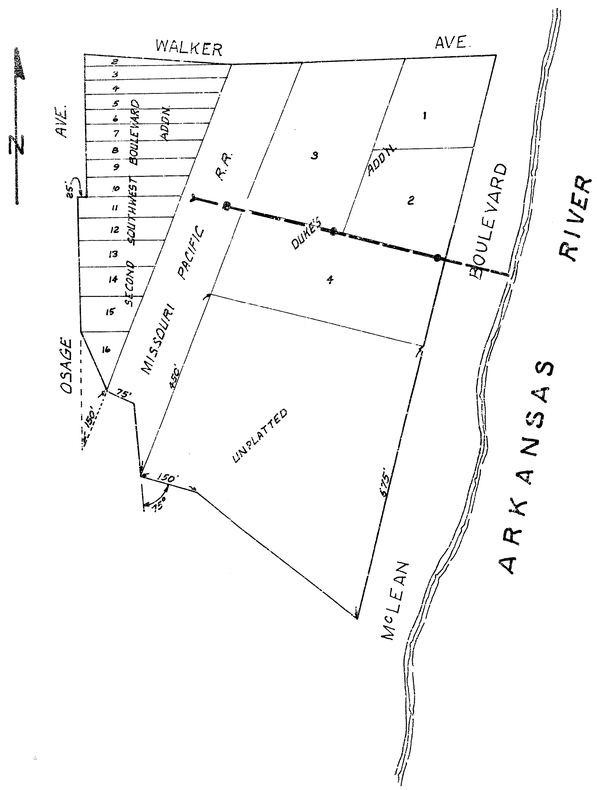
STORM WATER SEWER NO. 107
CITY OF WICHITA, KANSAS
R. W. LINN- CITY ENGINEER
PROJECT NO. DBKA 573081
DATE:

GENERAL NOTES

1. PIPE FURNISHED FOR THIS PROJECT SHALL BE EITHER ALL REINFORCED CONCRETE PIPE OR ALL CORRUGATED METAL PIPE. CORRUGATED METAL PIPE SHALL CONFORM TO THE APPLICABLE SECTIONS OF SECTION 1009.05 OF THE 1973 KANSAS STATE HIGHWAY SPECIFICATIONS. CORRUGATED METAL PIPE FURNISHED FOR THIS PROJECT DOES NOT REQUIRE BITUMINOUS COATING. CORRUGATED METAL PIPE HAVING DIAMETERS OF 18 INCHES OR SMALLER SHALL HAVE HELICAL CORRUGATIONS. CORRUGATED METAL PIPE USED ON THIS PROJECT SHALL BE FURNISHED WITH THE "HUGGER" BAND COUPLER AS MANUFACTURED BY ARMCO STEEL CORPORATION, OR AN APPROVED EQUAL, FOR CONNECTING SECTIONS OF CORRUGATED METAL PIPE.

2. CONTRACTOR SHALL USE EXCESS EXCAVATED MATERIAL FROM SEWER TRENCH TO FILL AND GRADE DITCH ON SOUTH OF STORM SEWER FROM APPROXIMATELY STA. 4+30 TO 6+85. THIS ITEM OF WORK WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

3. ALL COSTS OF MATERIALS AND LABOR FOR INSTALLATION OF THE 36" ARMCO FLAT BACK FLAP GATE (MODEL 20-C) WITH TYPE "S" THIMBLE, OR APPROVED EQUAL, SHALL BE INCLUDED IN THE BID PRICE FOR THE REINFORCED CONCRETE MANHOLE.

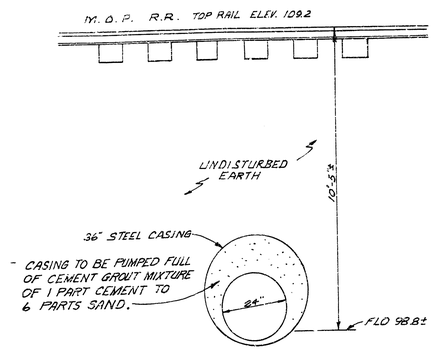


As Built 12-19-75

B.M. 105.71 R.R. SPIKE N.E. SIDE P. POLE S.S. WALKER, 30' E. & 39' N. OF N.E. COR. MOTIVE PARTS WAREHOUSE ON SE. COR. OSAGE & WALKER.

B.M. 111.62 "X" CUT ON S.W. COR. CONC. BASE TO R.R. SIGNAL LIGHT, W.S. McLEAN & N. SIDE A.T. & S.F. R.R. TRACK N. SIDE WALKER.

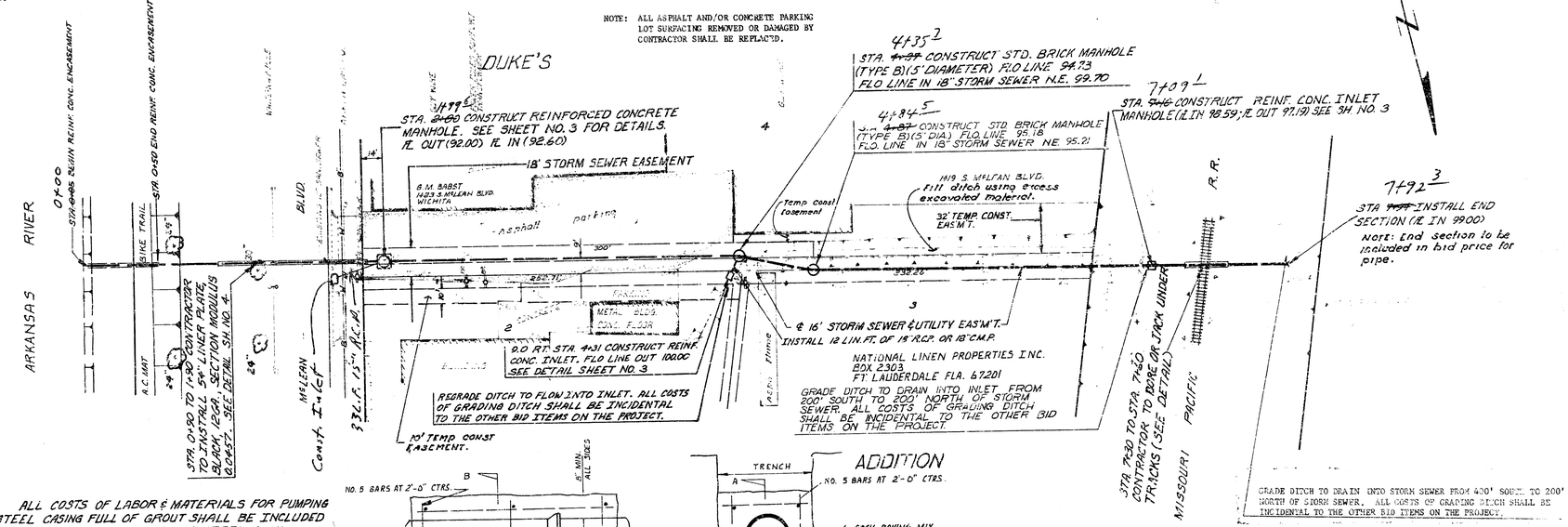
B.M. 108.67 R.R. SPIKE N. SIDE LARGE ELM TREE 10' E. OF E. CB. McLEAN & 6' S. OF N.L. LOT 4 DUKES ADDN. S. OF WALKER.

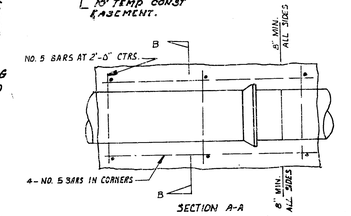


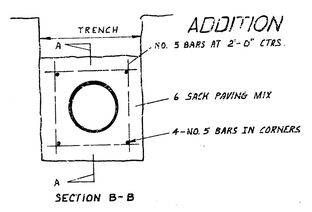
TYPICAL SECTION
CASING AT M.O.P. R.R. CROSSING
STA. 7+30 TO 7+60

1. 24" R.C.P. OR 24" C.M.P. TO BE PLACED UNDER RAILROAD BY BORING OR JACKING 36" DIAMETER, 0.500 WELDED STEEL PIPE AND THREADING THE 24" R.C.P. OR 24" C.M.P. THROUGH THE 36" STEEL CASING.
2. ALL COSTS OF LABOR & MATERIALS FOR BORING OR JACKING 36" DIAMETER, 0.500 WELDED STEEL PIPE SHALL BE INCLUDED IN THE BID PRICE OF LIN.FT. 36" STEEL CASING.
3. ALL COSTS OF LABOR & MATERIALS FOR PUMPING 36" STEEL CASING FULL OF GROUT SHALL BE INCLUDED IN THE BID PRICE OF LIN.FT. 36" STEEL CASING.
4. LIN. FT. OF 24" R.C.P. OR 24" C.M.P. PLACED IN 36" STEEL CASING SHALL BE PAID BY THE LIN. FT. OF 24" R.C.P. OR 24" C.M.P.

NOTE: ALL ASPHALT AND/OR CONCRETE PARKING LOT SURFACING REMOVED OR DAMAGED BY CONTRACTOR SHALL BE REPLACED.

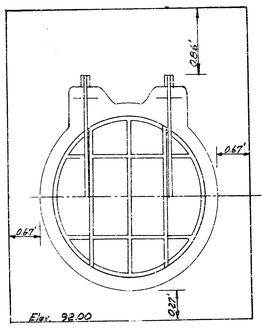




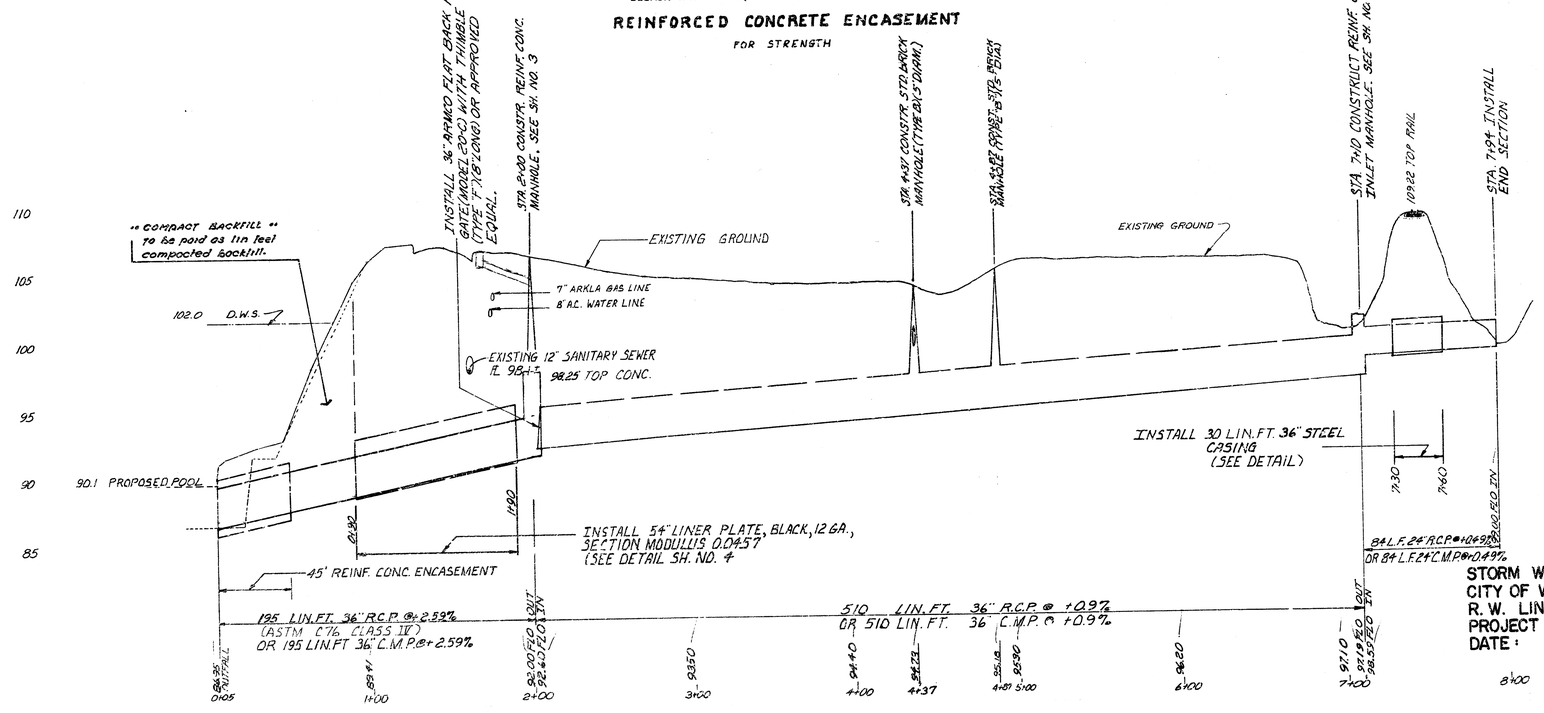


PLAN SCALE: 1" = 40'
PROFILE SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" = 5'

REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH



CLEARANCE DETAIL
FLAP GATE



STORM WATER SEWER NO. 107
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R. W. LINN - CITY ENGINEER
PROJECT NO. DBKA 573081
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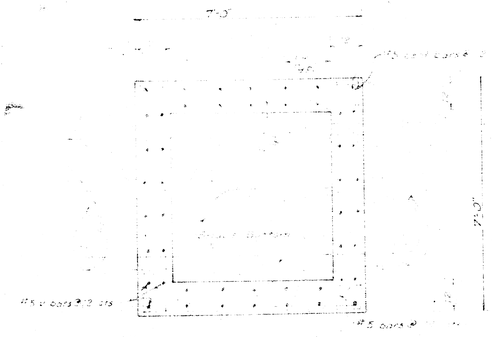
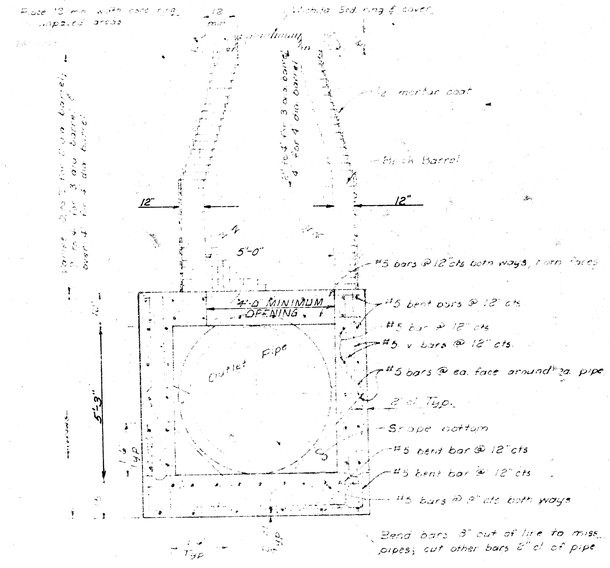
GENERAL NOTES

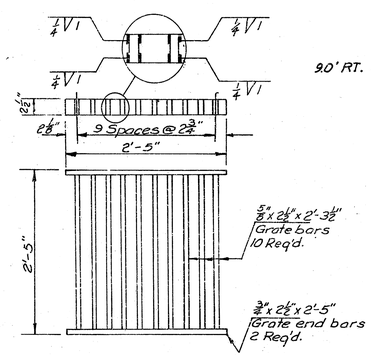
1. ALL COSTS OF MATERIALS & LABOR FOR CONSTRUCTION OF REINF. CONC. INLET MANHOLE SHALL BE INCLUDED IN THE BID PRICE FOR REINF. CONC. INLET MANHOLE.
2. REINF. CONC. INLET MAN-
3. REINF. CONC.
4.
5.
6. REINF. CONC INLET MANHOLE SHALL BE
7. REINF. CONC. INLET MANHOLE
8. REINF. CONC.
9.
10. ALL COSTS OF MATERIALS & LABOR FOR CONSTRUCTION OF REINF. CONC. INLET SHALL BE INCLUDED IN THE BID PRICE FOR REINF. CONC. INLET.
11. REINF. STEEL IN FLOOR & WALLS OF REINF. CONC. INLET SHALL BE SPACED AT 8" CENTERS EXCEPT FOR DIAGONAL STEEL WHICH SHALL BE PLACED 2" CLEAR FROM OUTSIDE WALL OF STORM SEWER PIPE.
12. THE FLOOR OF THE REINF. CONC. INLET SHALL BE SHAPED TO CONFORM TO THE SECTIONS AS SHOWN WITH 8 SACK SAND MIX.
13. WALLS AND FLOOR OF REINF. CONC. INLET SHALL BE 6" THICK UNLESS OTHERWISE NOTED.



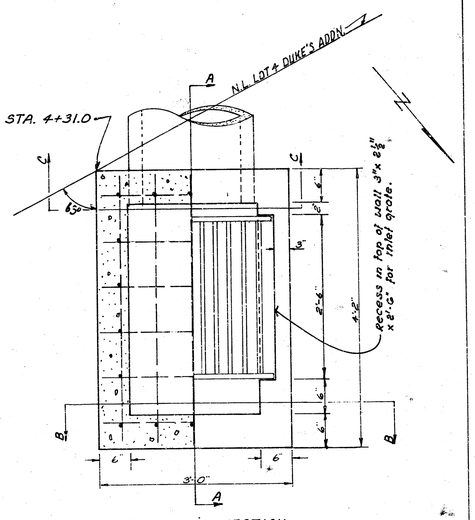


TYPICAL ELEVATION SECTION
SCALE 1/2" = 1'-0"

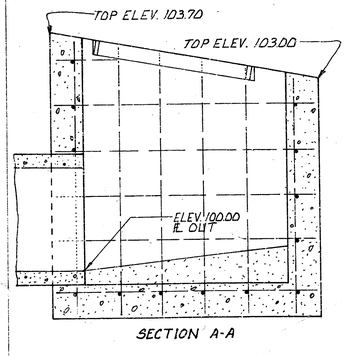
REINF. CONC. MANHOLE DETAILS



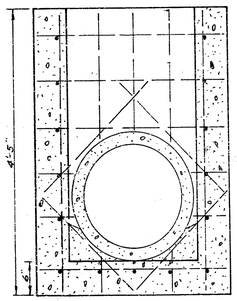
WELDED STRUCTURAL STEEL GRATE
Weight 153 Lbs. Each.



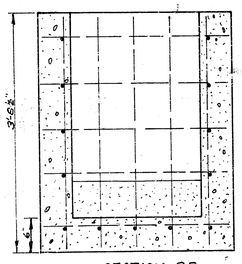
PLAN & SECTION



SECTION A-A

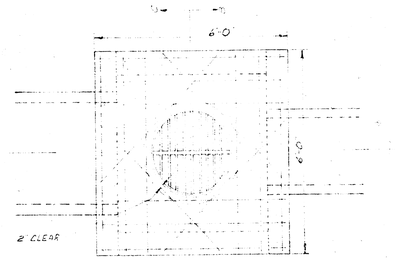


SECTION C-C



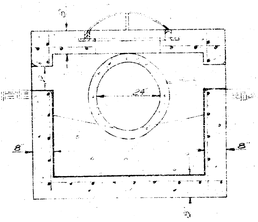
SECTION B-B

REINF. CONC. INLET DETAIL
9.0' RT. STA. 4+31

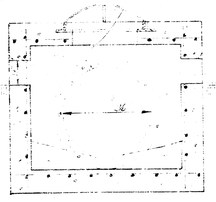


PLAN VIEW

SECTION AA

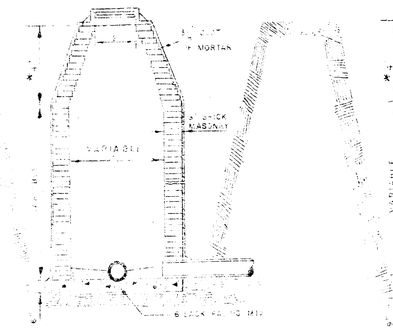


SECTION BB

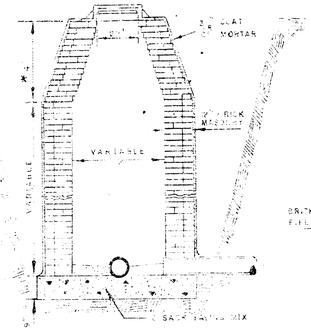


SECTION CC

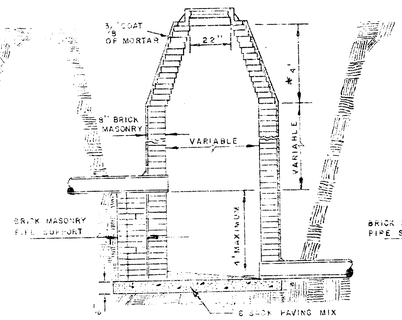
REINF. CONC. INLET MANHOLE DETAIL
STA. 7+40



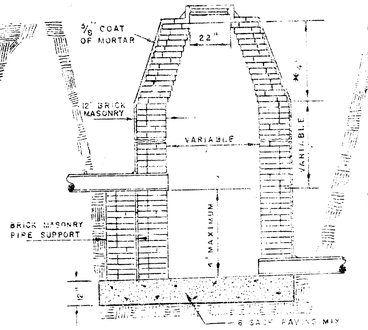
STANDARD MANHOLE
TYPE "A"



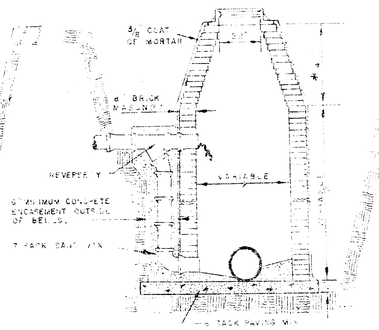
STANDARD MANHOLE
TYPE "B"



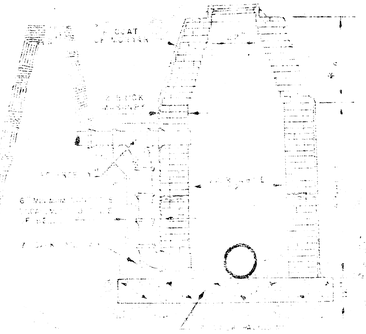
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

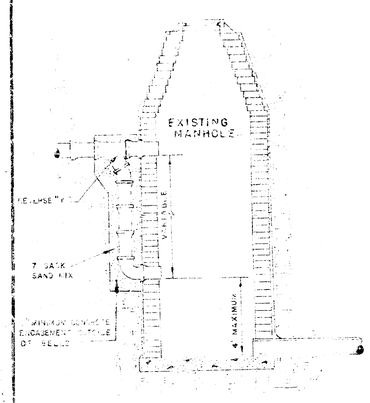


OUTSIDE DROP MANHOLE
TYPE "A"

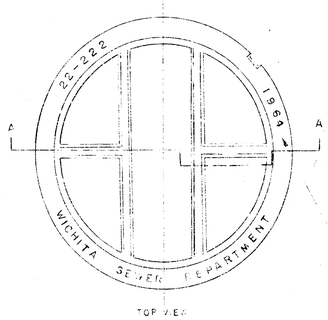


OUTSIDE DROP MANHOLE
TYPE "B"

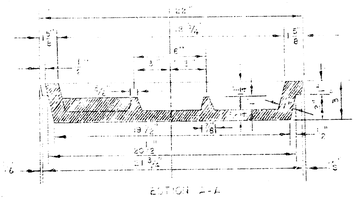
* DRAW = 6' ON 5' DIA. M.H.



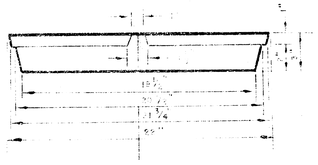
DETAIL OF DROP STACK
FOR EXISTING MANHOLES IN GROUND WATER



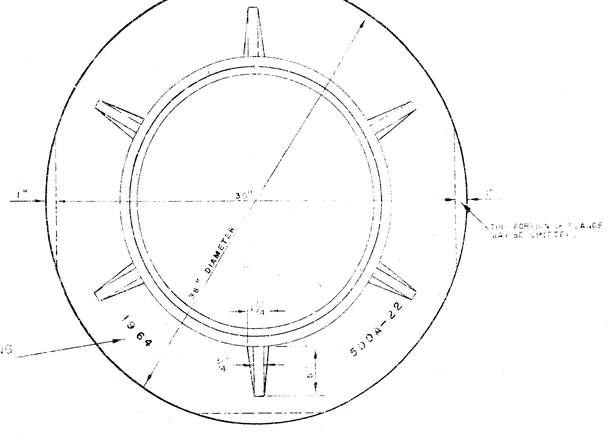
TOP VIEW
MANHOLE COVER
WEIGHT 170 lbs.



EDGE DETAIL
MANHOLE COVER

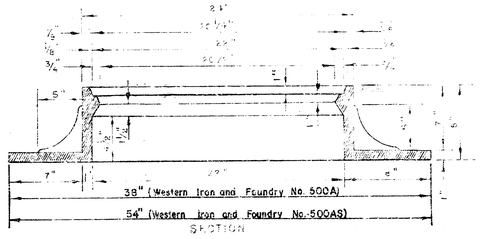


SIDE VIEW
MANHOLE COVER



YEAR CASTING WAS MADE

TOP VIEW
MANHOLE RING
WEIGHT 355 lbs.



SECTION
MANHOLE RING

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

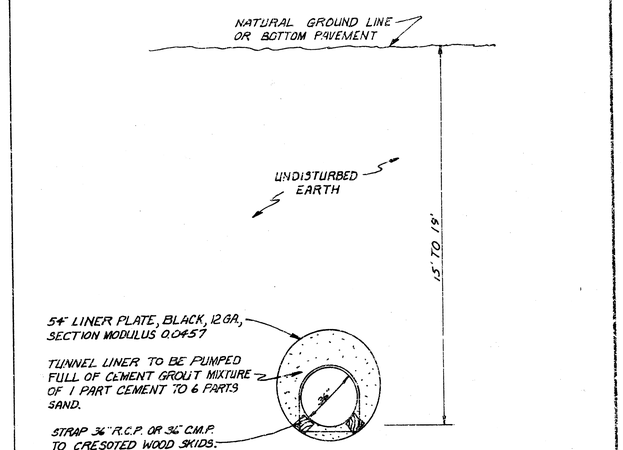
MANHOLES

THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES AND DROP MANHOLES, MANHOLES OF DIAMETER SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

CONSIST OF DOUBLE CUTS BE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

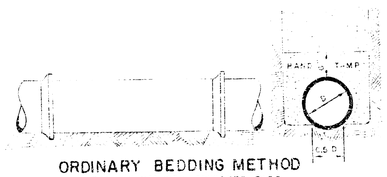
ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 5' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLANS. ALL MANHOLES WITH PIPES 24" & SMALLER SHALL BE 4' DIA.



T'PICAL SECTION

TUNNEL LINER AT McLEAN BLVD. CROSSING
STA. 0+90 TO STA. 1+90

1. ALL COSTS OF LABOR & MATERIALS FOR INSTALLING 54" LINER PLATE, BLACK, 12 GA, SECTION MODULUS SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. 54" TUNNEL LINER.
2. ALL COSTS OF LABOR & MATERIALS FOR PUMPING 54" TUNNEL LINER FULL OF GROUT SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. 54" TUNNEL LINER.
3. 36" R.C.P. OR 36" C.M.P. PLACED IN 54" TUNNEL LINER SHALL BE PAID BY THE LIN. FT. OF 36" R.C.P. OR 36" C.M.P.



ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE

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

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