PLANS

FOR

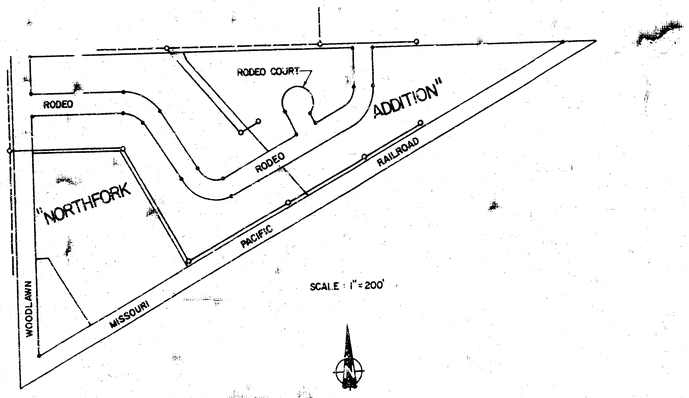
SANITARY SEWER EXTENSIONS

NORTHFORK ADDITION

CITY OF BEL AIRE

1982

MS 282



NOTE TO CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will prepay the City of Wichita for all costs of Inspection.

6-25-82

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers E.C.F.
Storm Sewers
Driveway Approaches

CHARLES M. GOODNESS LICENSED KANSAS PROFESSIONAL ENGINEER

REISS & GOODNESS ENGINEERS
2100 WEST 21ST STREET
WICHITA, KANSAS 67204
(316) 682 0213

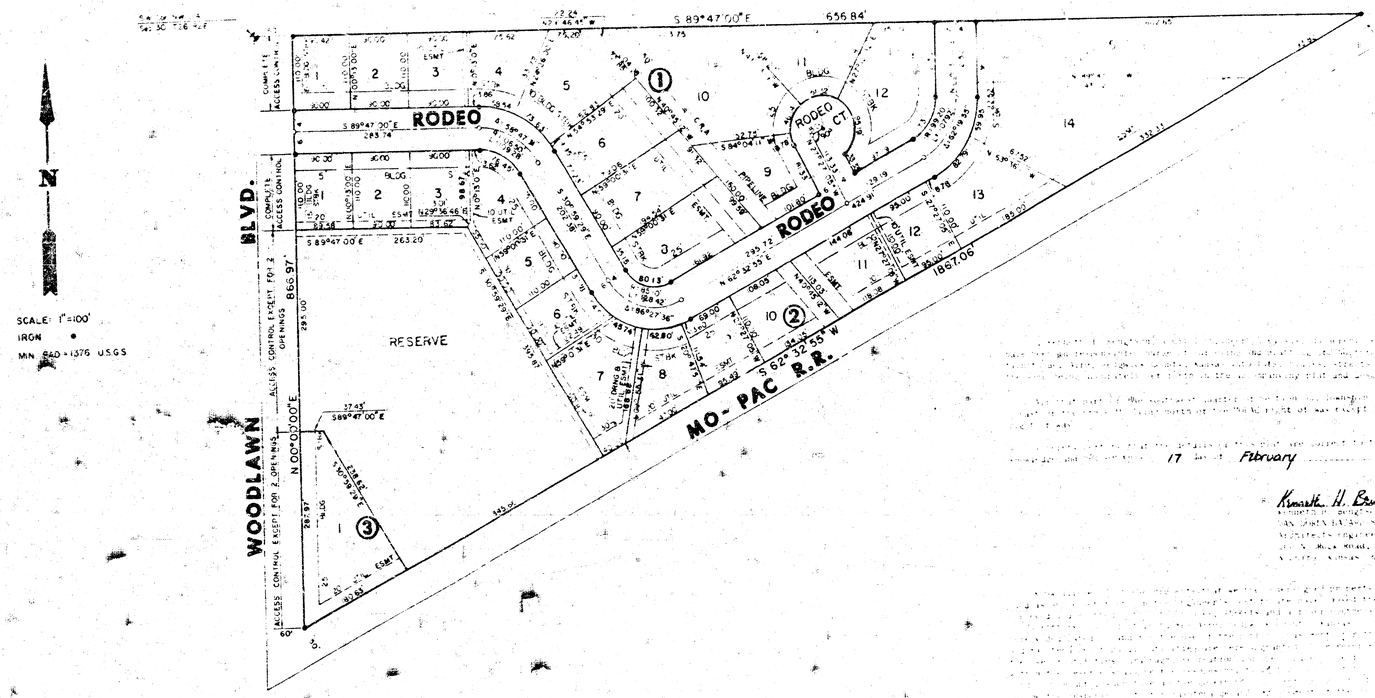
1/5

REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT	CUSTOMER	SCALE NOTED	PROJECT NO.
						DATE 4-6-82	SHEET 1 OF 5

FINAL PLAT OF

NORTHFORK

AN ADDITION TO BEL AIRE, SEDGWICK COUNTY KANSAS



Kathryn I Bauman
KATHRYN I. BAUMAN

David H Brasted
DAVID H. BRASTED

18th February
DAVID H. BRASTED
EXECUTIVE VICE PRESIDENT

Catherine Price
CATHERINE PRICE
NOTARY PUBLIC
SEDGWICK COUNTY, KANSAS
MY COMMISSION EXPIRES 7/15/85
12/15/82

17 FEBRUARY

Elmer Peters, Chairman
Pat Norman, Secretary

This plat approved and its dedication shown hereon, if any, accepted by the City Commission of the City of Bel Aire, Kansas this 17 day of FEBRUARY

Bill Russell Thomas, Mayor

This plat approved and its dedication shown hereon, if any, accepted by the Board of Commissioners of Sedgwick County, Kansas this 23rd day of March

Jack Spratt, Chairman
Tom Scott, Commissioner
Donald E. Gragg, Commissioner

Dorothy K. White
By Michael T. Sawyer
MICHAEL T. SAWYER, Deputy
23rd March

Dorothy K. White, County Clerk
By Michael T. Sawyer
MICHAEL T. SAWYER, Deputy

2:00 PM 23RD MARCH

Bette J. McCart
Pat Kessler

17 February

Kenneth H. Brayton

#596283

William L. Oliver, Jr.

$20.00

SANITARY SEWER EXTENSIONS

NORTHFORK ADDN- CITY OF BEL AIRE

SHEET 2 OF 5

2/5

BOWERS FIRST ADDITION

SW COR. NW 1/4 SEC. 30 T26 R2E

EXIST. 12" SAN. SEWER

EXIST. 8" SAN. SEWER

WOODLAWN BLVD.

RODEO

RODEO COURT

LAT. NF-1 (8" PIPE)

LAT. NF-2 (8" PIPE)

LAT. NF-3 (12" PIPE)

LAT. NF-4

M.H. 0+00
F.L. IN 64.10
F.L. OUT 63.27 (18")

M.H. 0+00
F.L. IN 67.53
F.L. OUT 65.52

M.H. 3+55
F.L. OUT 65.17
F.L. IN 65.27

M.H. 3+30
F.L. OUT 68.85
F.L. IN 68.95

M.H. 3+90
F.L. OUT 69.20

EXIST. M.H. (0+00)
F.L. IN 66.55
F.L. OUT 66.52

MH 3+90
F.L. OUT 67.18

M.H. 7+48.29
FL OUT 66.45
FL IN 66.55

M.H. 10+85
F.L. 67.58

M.H. 13+65
F.L. 68.40

M.H. 15+65
FL 69.20

5'-4" STUB
FL. 71.08

5'-4" STUB
FL 69.87

MH 0+90
FL. 63.77

M.H 0+00

INSTALL 60' OF 16" ENCASEMENT PIPE BY BORING

INSTALL 60' x 16" STEEL PIPE ENCASEMENT BY BORING

TO 18" VCP MAIN
F.L. 18" 62.58
F.L. 8" 63.41

INSTALL 90' OF 8" SEWER PIPE AT 0.4% GRADE

Install 4" stub to serve Lot 1, Blk. 3.

10' UTILITY EASEMENT

20' UTILITY EASEMENT

50' C.R.A. PIPELINE EASEMENT

10'x10' EASEMENT

50' ESMT. !!

OIL LINE

5' UTILITY EASEMENT

BM
TOP OF IRON IN THIMBLE AT THE SW Cor NW 1/4 SEC. 30 T26 R2E
EL 1376.10

NOTE:
CONTRACTOR SHALL NOTIFY C.R.A., INC. PRIOR TO WORKING WITHIN PIPELINE EASEMENT.
(ROY NICHOLS (918-1333-4111)

60' 0' 60'
PLAN SCALE 1"=60'

LAT. NF-1
ALL PIPE IS 8"

SCALE
HORIZ. 1" = 100'
VERT. 1" = 5'

73.00 (FINISH GRADE TYP.)

60' OF 16" STEEL ENCASEMENT INSTALLED BY BORING

OIL LINE TOP OF PIPE = 67.92

0.3%

LAT. NF-2
ALL PIPE IS 8"

81.80 77.20

OIL LINE

0.4%

LAT. NF-3
ALL PIPE IS 12"

77.10

0.2%

LAT. NF-4
ALL PIPE IS 8"

76.00 73.00

0.4%

60 LIN. FT. OF 16" STEEL PIPE ENCASEMENT INSTALLED BY BORING

REVISED JUNE 23, 1982

REISS & GOODNESS ENGINEERS
2160 WEST 21ST STREET
WICHITA, KANSAS 67204
(316) 832-0213

3/5

REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT

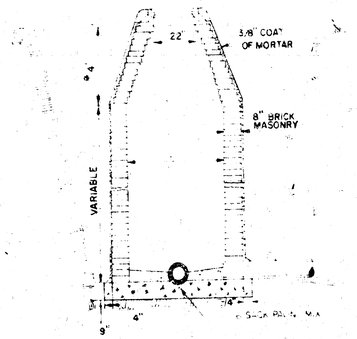
SANITARY SEWER EXTENSIONS

DESCRIPTION

NORTHP[illegible] ADDN. - CITY OF BEL AIRE

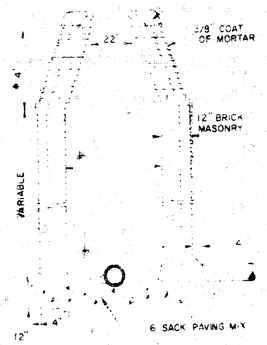
SCALE GIVEN	PROJECT NO. NS 282
DATE 4-6-82	SHEET 3 OF 5

...ERED AREAS (TYPICAL ALL MANHOLES)

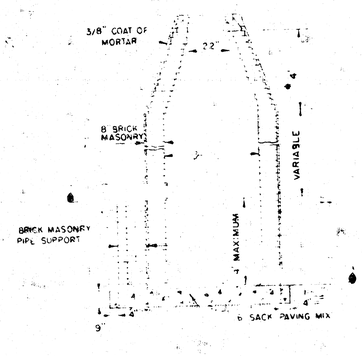


STANDARD MANHOLE TYPE "A"

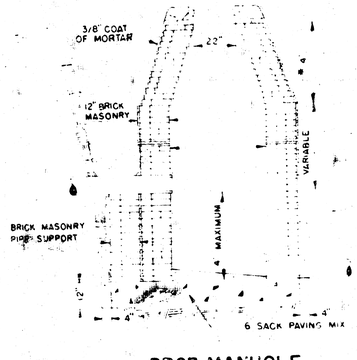
* DRAW = 6' ON 5' DIA. M.H.



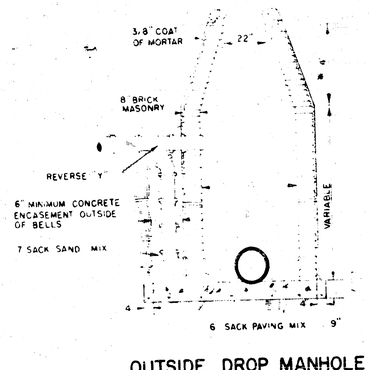
STANDARD MANHOLE TYPE "B"



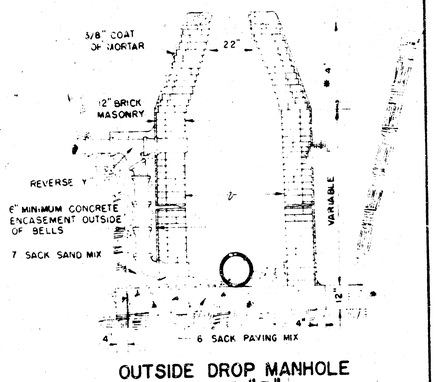
DROP MANHOLE TYPE "A"



DROP MANHOLE TYPE "B"

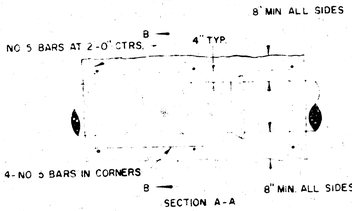


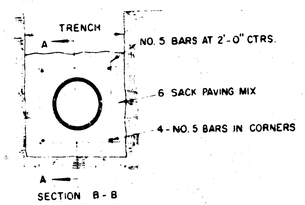
OUTSIDE DROP MANHOLE TYPE "A"



OUTSIDE DROP MANHOLE TYPE "B"

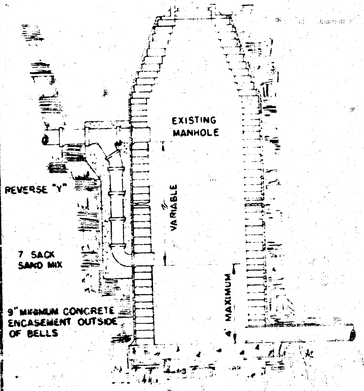
NOTE : REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.





REINFORCED CONCRETE ENCASEMENT

NOTE : CONCRETE ENCASEMENT AND CONCRETE CRADLE SHALL BEGIN AND END AT A JOINT WHEN CLAY PIPE IS USED.

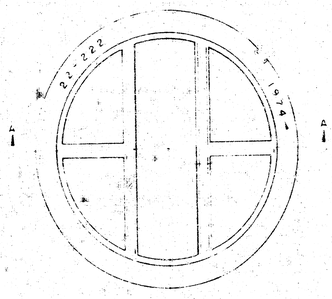


DETAIL OF DROP STACK

FOR EXISTING MANHOLES IN GROUND WATER

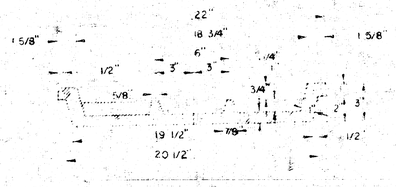
GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE 'A' OR TYPE 'B' AND STANDARD DROP MANHOLES TYPE 'A' OR TYPE 'B' SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.



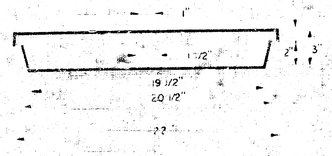
MANHOLE COVER

WEIGHT 10 LBS



SECTION A-A

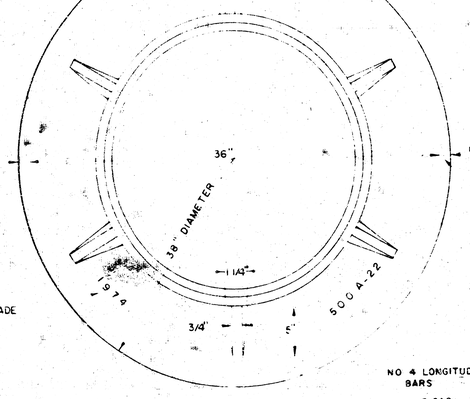
MANHOLE COVER



SIDE VIEW

MANHOLE COVER

YEAR CASTING IS MADE



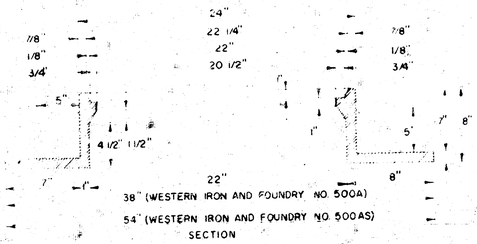
THIS PORTION OF FLANGE MAY BE OMITTED

TOP VIEW

MANHOLE RING

WEIGHT 325 LBS RING NO 500A

WEIGHT 800 LBS RING NO 500AS



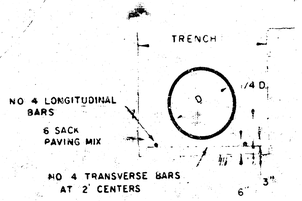
38" (WESTERN IRON AND FOUNDRY NO. 500A)

54" (WESTERN IRON AND FOUNDRY NO. 500AS)

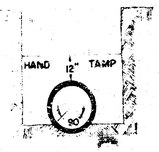
SECTION

MANHOLE RING

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



DETAIL OF CONCRETE CRADLE



ORDINARY BEDDING METHOD

STORM SEWER PIPE

REVISED 4-13-77

DETAILS OF

SEWER APPURTENANCES

ADOPTED AS STANDARD DESIGN

BY

ENGINEERING DIVISION

CITY OF WICHITA, KANSAS

R. W. LINN CITY ENGINEER

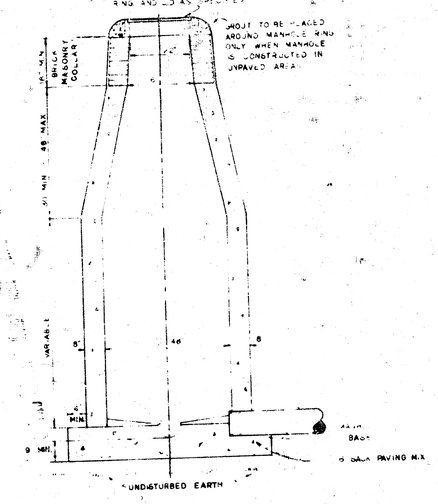
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4/5

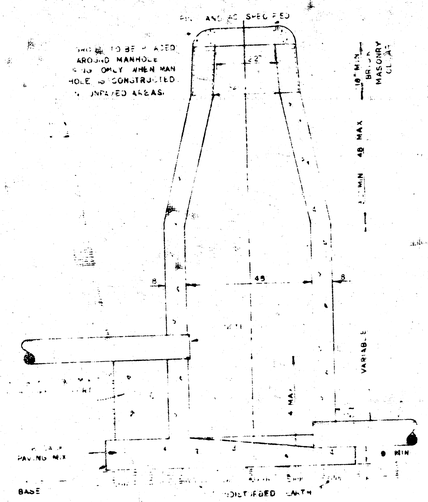
MB 282

SHEET 4 OF 5

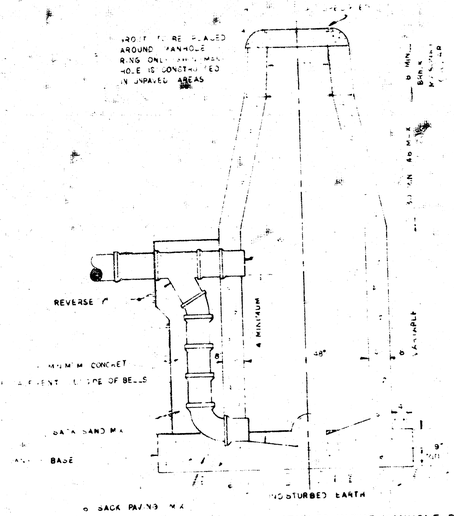
STANDARD MANHOLE, TYPE "C"



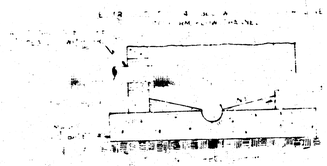
DROP MANHOLE, TYPE "C"



OUTSIDE DROP MANHOLE, TYPE "C"

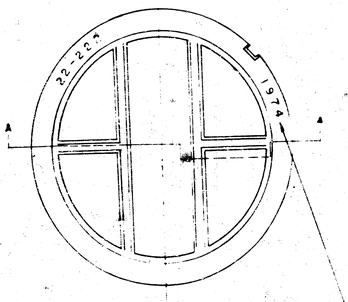


NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE

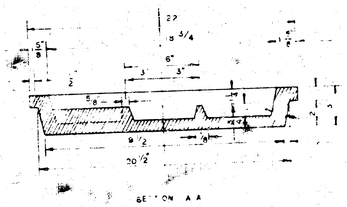


SECTIONAL ELEVATION—INVERT

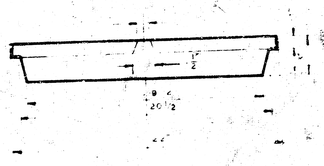
NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.



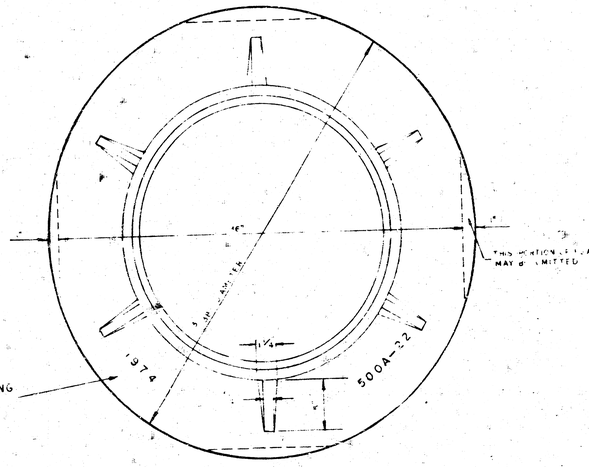
MANHOLE COVER



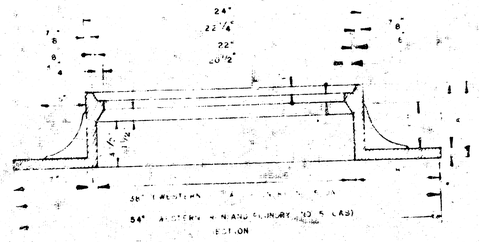
MANHOLE COVER



MANHOLE COVER



MANHOLE RING



MANHOLE RING

GENERAL NOTES

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 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 6 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.

PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

REVISED 4-13-77

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
1974

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MS 282

SHEET 5 OF 5