B. M. 165.37, R.R. spk. top east Post - N. banister wood bridge 1200 ft. E. of Oliver on 29th St. North.

B. M. 172.38 City Std. 29th - Edgemoor 3.5' east & 37.0' N. of Iron

NOTE: All manhole stubs & clay pipe outlets are to be incidental to the project.

Plan Scale 1" = 40'
Profile Scale 1" = 10' Horz.
1" = 5' Vert

NOTE: Adjust exist Manhole.

NOTE: Exist. S.W. Bell Tele. Underground Conduit.

NOTE: Adjust exist manhole

NOTE: Adjust exist Manhole

Dedicated Roadway

OLIVER ST.

30'

40' R/W

29TH ST.

NORTH

Exist. 30" V.C.P. Sanitary Sewer 8" Reinf. Canc. encased.

Sta. 0100.0 Exist. M.H.

Sta. 1+22.3 Sta. 1+28.5 Const. Std. M.H. Type "A" (5' dia.) Install 10" Stub N. Install 8" Stub S.

Exist. 21" S.S.

Sta. 3+28.2 Sta. 3+29.0 Const. Std. M.H. Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S. Alternate, Install Structural Tee M.H. Install 10" Clay Pipe inlet N. Install 8" Clay Pipe inlet S.

Ties to Iron 1/4" cor.
171.29' W. SW to 60" spk. Top E-end wing wood bridge.
171.29' W. NW to 60" Spk. Top E-end wing wood bridge.
58.01' SW to nail in washer W-face 10" tree.
54.68' NW to nail in washer E-face 10" tree.
26.65' N. to nail in pop cap E-face P.P.

"CAUTION" Existing K.A.N.E.B. 8" Pipe line 11.0' ± So. of S.W. 29th St. No. 30" to 36" Alch. Call Mr. Oatman 262-1408

100 ft. temporary Const. Easement

NW 1/4 Sec 1, Twp. 27 S., R. 1 E.
E. B. Shawver
Petroleum Corp.
KE-460-12

Sta. 4+91.2 Sta. 4+91.6 Const. Std. M.H. Type "B" (5' Dia.) Install 10" Stub N. & 8" Stub S. Alternate Install Structural Tee M.H. Install 10" Clay pipe inlet N. Install 8" Clay pipe inlet S.

Match Point Sta. 9+00.0 Sta. 9+00.0 Const. Std. M. H. Type "B" (5' dia.) Install 30" Stub NE

NOTE: Set top of all new manholes at the same elev. as crown of exist. A. C. pavement.

NOTE: Sta 9+00.0 to Sta 41+30.4 Elevations shown are for 21" clay pipe. If 30" RCP is used, lower flo elevation 0.75

Sta. 0+00.0 Exist. M.H.

Sta. 1+21.5 Const. Std. M.H. Type "A" (5' dia.) Install 10" Stub N. Install 8" Stub S. See Sheet No. 6 For M.H. details

Sta. 3+29.0 Const. Std. M.H. Type "B" (5' dia.) Install 10" Stub N. Install 8" Stub S. Alternate Install Structural Tee M.H. Install 10" Clay Pipe inlet N. Install 8" Clay Pipe inlet S. See Sheet No. 6 & 7 For M.H. details

Sta. 4+91.6 Const. Std. M.H. Type "B" (5' dia.) Install 10" Stub N. & 8" Stub S. Alternate Install Structural Tee M.H. Install 10" Clay Pipe inlet N. Install 8" Clay pipe inlet S.

Sta. 9+00.0 Const. Std. M. H. Type "B" (5' dia.) Install 30" Stub NE See Sheet No. 6 for M.H. details

Top of 8" Gas line.

N. Rim M.H. 1398.98

South edge A. C. Pavement.

Flo So. ditch

Exist. 18" Bel Aire San. Sewer

Exist. 30" V.C.P. San. Sewer. (8" Reinf. Conc. Encased) @ 0.20 % grade

147.70 Flo in 10" Stub N. 8" Stub S.

148.10 Flo in 10" Stub N. & 8" Stub S. 10" Clay Pipe inlet N. & 8" Clay Pipe inlet S.

149.00 Flo in 10" Stub N. & 8" Stub S. or 10" Clay Pipe inlet N. & 8" Clay Pipe Inlet S

30" (EXTRA STRENGTH) CLAY PIPE

145.43 Flo in 21" 143.45 Flo in 30"

143.65

143.69 Flo out 143.39 Flo in

143.95

144.15

144.21 Flo

144.35

144.55

144.75

144.94 Flo 144.95

145.15

143.35 Flo out 145.45 Flo in 30" Stub NE 149.03 Flo in 21" Pipe

900 Lin. ft. of 30" (Extra Strength) clay Pipe @ 0.20 % grade.

Alternate

900 Lin. ft. of 30" R.C.P. (Class III, Plastic lined) @ 0.20 % grade.

"As Built" Final Meas. I.H. 8.2

EXTENDING SUPPLEMENTAL SEWER TO S. S. NO. 12
EXT. OF S. S. NO. 23 IN 29TH. ST.
FROM 1/4 MILE E. OF OLIVER ST. TO WOODLAWN BLVD.
CITY OF WICHITA, KANSAS
R. W. LINN — CITY ENGINEER
JULY 1973 PROJECT NO. DBKJ 573032

B. M. 172.38 City Std. 29th – Edgemoor
5.5' E. & 37.2' N. of Iron & both.

Ties to Iron ⅝ Cor:
47.92' NW to "+" cut on conc. base west end gate post.
37.15' N. to ctr. brass plug City Std.
41.63' NE to nail in washer E-face fnc. post.
74.09' NE to "+" on SE cor. conc. Box.
90.35' E NE to nail in washer S.-face P.P.

Dedicated Roadway

NOTE:
Exist. S. W. Bell Telephone underground Conduit.

Eagle Beacon mail box

Exist. City Limits

Pipe line marker

5' wk

1-Car Gar.

Mail Box

2-Pkg. Posts

Nose Bush

14" Pine

Witness Cor. 2" Pipe 1.0' N. 2.0' E. 2.0' Below Surface

Pipe line marker

Proposed City Limit

Proposed City Limit

17+19.2
Sta. ~~17+38.6~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate, Install Structural Tee M. H.
Install 10" clay pipe inlet N. & 8" clay Pipe inlet S.

KE 458

Proposed City Limit

550'

5'

50' R/W

40' R/W

Nail

NORTH

1" Nail in Washer

40' R/W

TWENTY-NINTH ST.

Exist. 8" City Limit Nail

Iron

Nail

Exist. City Limit

Ditch

Sta. 9+00.0 Match

"CAUTION"
Existing 8" K & E PIPE LINE
11' ± S. of ℄ 29th St. No.
30" to 36" deep.

5'

Sta. ~~14+46.4~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay Pipe inlet N. & 8" clay Pipe inlet S.

Sta. ~~19+96.3~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay Pipe inlet N. & 8" clay Pipe inlet S.

100' Temporary Construction Easement

Begin Conc. Craddle

100' Temporary Const. Easement

Sta. 10+85.2
Sta. ~~10+84.5~~ Const.
Std. M. H. Type "B" (4' dia.)
Install 10" Stub N. & 8" Stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.
See Sheet No. 5 & 6 for M. H. details

NW ¼ Sec. 1, Twp. 27 S., R. 1, E.

E. B. Shawver Petroleum Corp. KE 460-12

E. B. Shawver Petroleum Corp. KE 460-11

NE ¼ Sec. 1, Twp. 27 S., R. 1, E.

Sta. 10+84.5 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" Stub N. & 8" Stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.
See Sheet No. 5 & 6 for M. H. details

Sta. 14+46.4 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.

Sta. 17+20.0 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" Stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe inlet N.
Install 8" clay pipe inlet S.

Sta. 19+96.3 Const.
Std. M. H. Type "B" (4' dia.)
Install 10" Stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay Pipe inlet N.
Install 8" clay Pipe inlet S.

Sta. 9+00.0

South edge of A.C. Pavement

Flo So. ditch

30" Class III R.C.P. Alternate

153.35 Flo in 10" Stub N. & 8" stub S. "B" M.H.

152.60 Flo in 10" Clay Pipe inlet N. & 8" clay pipe inlet S. "Tee" M.H.

153.98 Flo in 10" Stub & 8" stub S. "B" M.H.

153.50 Flo in 10" Stub N. & 8" stub S. or 10" clay pipe inlet N. 8" clay pipe inlet S.

153.17 Flo in 10" clay pipe inlet N. 8" clay pipe inlet S. "Tee" M.H.

154.35 Flo in 10" stub N. & 8" stub S. "B" M.H.

160.50 Flo in 10" Stub N. & 8" stub S. or 10" Clay Pipe inlet N. 8" clay Pipe inlet S.

153.60 Flo in 10" clay pipe inlet N. & 8" clay pipe inlet S. "Tee" M.H.

154.80 Flo in 10" stub N. & 8" stub S. "B" M.H.

163.50 Flo in 10" Stub N. & 8" stub S. or 10" clay Pipe inlet N. 8" clay Pipe inlet S.

154.05 Flo in 10" clay Pipe inlet N. & 8" clay Pipe inlet S. "Tee" M.H.

21" (EXTRA STRENGTH) CLAY PIPE

Conc. Cradle

149.25	149.21	149.35 Flo	149.37	149.53	149.69	149.85	149.92 Flo	150.01	150.17	150.33	150.36 Flo	150.49	150.65	150.80 Flo			

1085.5 Lin. ft. of 21" (EXTRA STRENGTH) Clay Pipe @ 0.16 % grade.
550.1 Lin. ft. of Concrete Cradle for 21" Clay pipe.
ALTERNATE
1096.5 Lin. ft. of 30" R.C.P. (Class III Plastic lined) @ 0.16 % grade

9 10 11 12 13 14 15 16 17 18 19

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

5/6

Ties to Iron 1/16 cor.
122.82' NW to 3 hollow point tacks S-face P.P.
43.15' S. SW to 3 hollow point tacks, N-face Inc. Post
171.90' NE to 3 hollow point tacks SW face P.P.
16.0' W. to fc South
40.1 N. to fc E-W.

KE 458

26+88±
Sta. ~~26+90~~ Const.
Std. M. H. Type "B" (4' dia)
Install 10" stub N. & 8" Stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.

Iron

Proposed City Limits

Proposed City Limits

Sta. 32+00

Nail

40' R/W

TWENTY-NINTH ST.

NORTH

Exist. City Limits

Exist. City Limits

Ditch

Ditch

Sta. 19+96.5

23+41±
Sta. ~~22+50~~ Const
Std. M. H. Type "B" (4' dia.)
Install 10" Stub N. & 8" stub S.
Alternate
Install Structural Tee M.H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.
See sheet No. 5 and 6 for M.H. details

100' temp.

"CAUTION"
Existing K A N E B 8" Pipe Line.
11'± So. of 29th St. No.
30" to 36" Loop.
Call Mr. Datman 262-1408

M a i z e
Const. Easement
F i e l d

W h e a t
F i e l d

Sta. 30+30±
Sta. ~~30+00~~ Const.
Std. M. H. Type "B" (4' dia)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets N. & S.

K A N E B Pipe line

N E 1/4 Sec. 1, Twp. 27 S, R. 1, E. 6 W.

E. B. Shawver Petroleum Corp. KE 460-11

Jack DeBoer KE 460-10

Sta. 23+45.0 Const.
Std. M. H. Type "B" (4' dia)
Install 10" Stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay pipe outlet N.
Install 8" clay pipe outlet S.
See sheet No. 5 for M. H. details.

Sta. 26+90.0 Const. (4' dia.)
Std. M. H. Type "B"
Install 10" Stub N. & 8" stub S.
Alternate
Install Structural Tee M. H.
Install 10" clay Pipe outlet N.
Install 8" clay pipe outlet S.

Sta. 30+40.0 Const.
Std. M. H. Type "B" (4' dia's.
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M.H.
Install 2-10" clay pipe outlets N. & S.

Sta. 19+96.5

Sta. 32+00.0

180 175 170 165 160 155 150

South edge A.C. Pavement

Flo Se. ditch

Flo Se. ditch

Top 8" Gas line 176.11

164.50 Flo in 10" Stubs N. & S. or 10" Clay Pipe inlet N 8" clay Pipe inlet S.

155.40 Flo in 10" Stub N. & 8" stub S. "B" M.H.

154.65 Flo in 10" Clay Pipe inlet N. & 8" clay pipe inlet S. "Tee" M.H.

153.90 Flo in 10" stub N. & 8" stub S. "B" M.H.

166.50 Flo in 10" Stub N. & 8" stub S. or 10" Clay Pipe inlet N. 8" Clay Pipe inlet S.

155.15 Flo in 10" Clay pipe inlet N & 8" clay pipe inlet S. Tee M.H.

156.30 Flo in 10" Stubs N. & S. "B" M.H.

167.50 Flo in 10" Stubs N. & S. or 10" clay Pipe inlet N. & S.

155.75 Flo in 10" Clay Pipe inlet N & S. "T" M.H.

21" (EXTRA STRENGTH) CLAY PIPE

151.40 150.97 151.43 151.29 151.36 Flo 151.45 151.64 151.77 151.94 151.93 152.09 152.25 152.41 152.47 Flo 152.37 152.73

1203.5 Lin. ft. of 21" (Extra Strength) Clay Pipe @ 0.16 % grade.
1203.5 Lin. ft. of Conc. Cradle for 21" Clay pipe.

Alternate

1203.5 Lin. ft. of 30" R.C.P. (class II, Plastic lined) @ 0.16 % grade.

20 21 22 23 24 25 26 27 28 29 30 31 32

3/6

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

B. M. #5.85 City Std. Square cut top N. Hdwl. 10' R. C. B. 49 ft. W. and 17.7 ft. N. of ℄ both 29th St. N. and Woodlawn.

Ties to Iron ℄ 29th St. No. and ℄ Woodlawn
58.05' SE to 3 nails (#8) in W. face con. post.
51.00' SW to "+" on conc. Hdwall.
51.03' NW to "+" on conc. Hdwall.
49.69' N.W. to nail in pop cap NE face P.P.
56.35' NE to nail in pop cap SE face P.P.

NOTE: Proposed 24" Water line 4.2' deep to top of pipe.

KE 458

33+86.2
Sta. ~~33+10.0~~ Const.
Std. M. H. Type "B" (4' dia)
Install 2-10" stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets N. & S.
See sheet No. 5 and 6 for M. H. details

Proposed City Limits

4" Rural Water line

TWENTY-NINTH ST. NORTH

Exist. City Limits

Exist. City Limits

Ditch

37+67.2

Sta. 32100.0

Match

Sta. ~~37+70.0~~ Const.
Std. M. H. Type "B" (4' dia)
Install 2-10" stubs N. & S.
Alternate:
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets N. & S.

100 temporary Construction Easement

Jack DeBoer
KE 460-10

K A N E B GAS 8" PIPE LINE

Sta. 41+23.8
4" Rural Water line

Sta. ~~41+30.4~~ Const.
Std. M. H. Type "B" (5' dia.)
Install 2-10" Stubs N. & S.
Install 15" stub East
End Conc. Cradle

Iron

40' BLVD.

WOODLAWN

NOTE: K A N E B 8" Pipe line Crosses ℄ of Woodlawn Blvd. 423.3' So. of the ℄ of 29th St. No.

Sta. 32100.0

Sta. 33+90.0 Const.
Std. M. H. Type "B" (4' dia)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe outlets
No. ℄ See Sheet No. 5 and 6
for M. H. details

Sta. 37+70.0 Const.
Std. M. H. Type "B" (4' dia)
Install 2-10" Stubs N. & S.
Alternate
Install Structural Tee M. H.
Install 2-10" Clay Pipe Outlets
N. & S.

Sta. 40+41.7
4" Water line

Sta. 41+30.4 Const.
Std. M. H. Type "B" (5' dia.)
Install 2-10" stubs N & S
Install 15" Stub East

So. edge of A.C. Pavement

Flo So. Ditch

167.50 Flo in 10" Stubs or 10" Clay Pipe Inlets

163.50 Flo in 10" Stubs N & S or 10" Clay Pipe Outlet

164.00 Flo in 10" Stub N & S

157.43 Flo in 10" Stub N & S Where 30" R.C.P. is used

137.63 Flo in 10" Stub N. & S. "B" M.H.

156.25 Flo in 10" Clay Pipe inlet N. & S. "Tee" M. H.

157.60 Flo in 10" Stub N & S. "B" M.H

158.24 Flo in 10" Stub N. & S. When 21" Clay Pipe

21" (EXTRA STRENGTH) CLAY PIPE

180 175 170 165 160 155 150

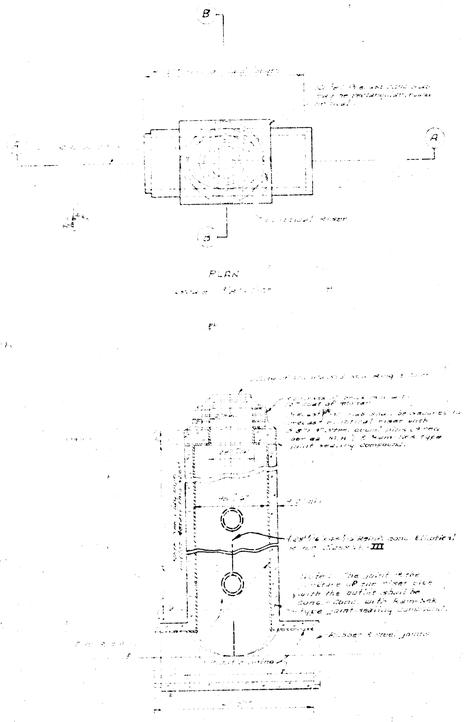
153.13 152.89 153.03 Flo 153.05 153.21 153.37 153.53 153.64 Flo 153.69 153.85 154.07 154.17 154.22 Flo out 21" 154.47 Flo in 15" Stub East

930.4 Lin. ft. of 21" (Extra Strength) Clay Pipe @ 0.16% grade.
930.4 Lin. ft. of Conc. Cradle for 21" Clay Pipe.
Alternate
930.4 Lin. ft. of 30" R.C.P. (Class V, Plastic lined) @ 0.16% grade.

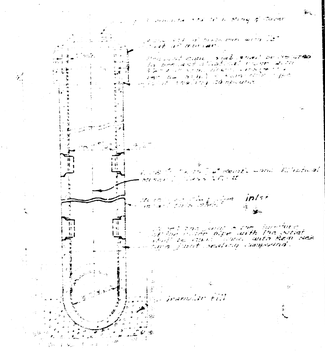
32 33 34 35 36 37 38 39 40 41

4/6

EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032

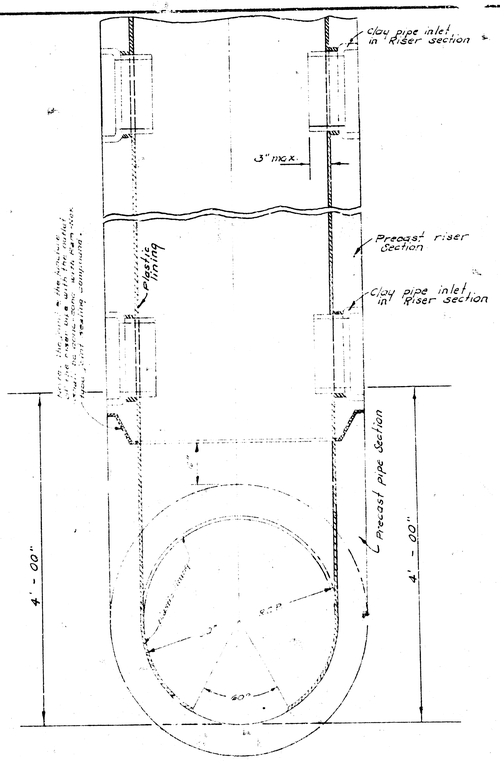


SECTION AA



SECTION BB

ALTERNATE PRECAST CONC. M.H. FOR 39" R.C.P.



PRECAST MANHOLE INLET DETAIL

GENERAL NOTES

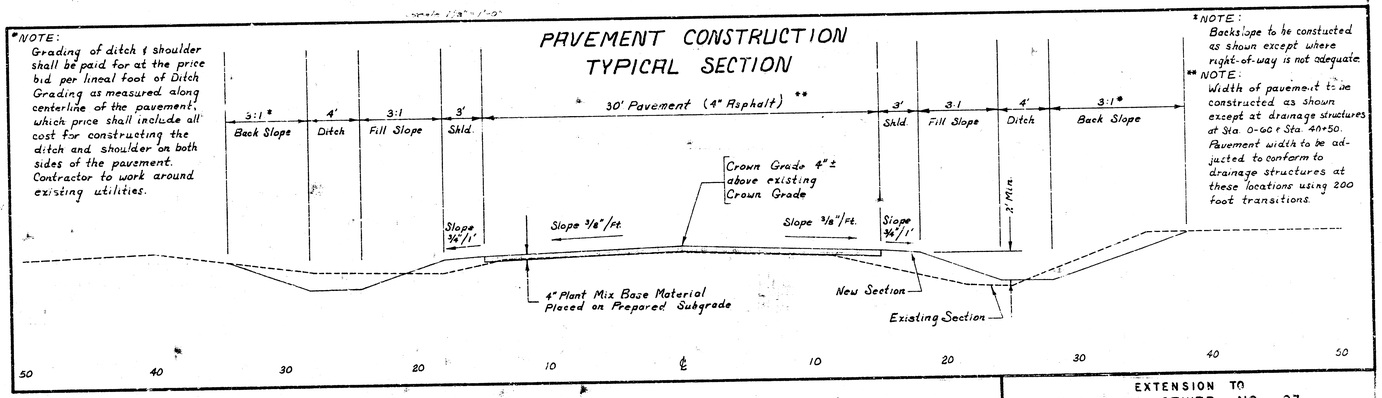
1. ..... 8" AND 10" STUBS OR 8" AND 10" INLETS INTO MANHOLES SHALL BE PLACED SUCH THAT THE BELL END OF THE PIPE STUB IS FLUSH WITH THE OUTSIDE DIAMETER OF THE MANHOLE.
2. REINFORCED CONCRETE PIPE FURNISHED FOR THIS PROJECT SHALL BE LINED WITH PLASTIC EXCEPT FOR THE BOTTOM SEGMENT SUBTENDED BY A 60° ANGLE. PLASTIC LINING SHALL BE ANCHORED BY T-LOCK AS MANUFACTURED BY AMERON CORPORATION, LAKE ERIE CORROSION AS MANUFACTURED BY E. F. COCHRUN, OR OTHER APPROVED EQUAL.
3. SAND BACKFILLING AND OTHER RELATED BACKFILL WORK THAT IS NORMALLY PAID FOR ON A TONNAGE BASIS SHALL BE MEASURED AND PAID FOR BY THE LINEAL FOOT.
4. SHOP DRAWINGS OF STRUCTURAL TEE MANHOLES TO BE FURNISHED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5.
6. THE USE OF WYO-BOND BENTONITE AS MANUFACTURED BY ARCHER DANIELS MIDLAND COMPANY, OR AN APPROVED EQUAL, WILL BE REQUIRED AS A MIXTURE WITH THE BACKFILL MATERIAL AT THE LOCATION OF ALL BRICK MANHOLES. THE AMOUNT OF BENTONITE REQUIRED SHALL RANGE BETWEEN 40 TO 80 POUNDS FOR MANHOLE LOCATION AS DIRECTED BY THE ENGINEER. NO DIRECT PAYMENT SHALL BE MADE FOR THIS AND SUCH COST SHALL BE INCLUDED IN THE PRICE BID FOR BRICK MANHOLES.
7. THE OUTSIDE SURFACES OF ALL BRICK MANHOLES AND PRECAST CONCRETE RISERS SHALL BE COATED WITH A DAMP-PROOFING MATERIAL SUCH AS BITUMASTIC SUPER SERVICE BLACK OR BITUMASTIC NO. 50 AND PRIMER, AS MANUFACTURED BY KOPPERS CHEMICALS AND COATINGS OR AN APPROVED EQUAL. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
8. FURNISHING AND INSTALLING 8" AND 10" STUBS OR 8" AND 10" INLETS AT LOCATIONS SHOWN BY PLANS WILL NOT BE PAID FOR DIRECTLY. THE COST OF FURNISHING ALL 8" AND 10" STUBS OR 8" AND 10" INLETS SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.
9. REINFORCED CONCRETE PIPE SHALL BE CLASS IV OR V AS SHOWN BY PLANS. REINFORCED CONCRETE RISERS FOR STRUCTURAL TEE MANHOLES SHALL BE CLASS III. THE ABSORPTION OF REINFORCED CONCRETE PIPE AND RISERS SHALL NOT EXCEED 7.2 PERCENT.
10. THE ENDS OF ALL REINFORCED CONCRETE PIPE INSTALLED IN BRICK MANHOLES SHALL BE PROTECTED BY PLASTIC LINING AS APPROVED BY THE ENGINEER.
11. SAND BACKFILL SHALL BE PLACED AND VIBRATED IN 6 FOOT LIFTS.
12. FIELD ENGINEER TO TAKE TIES TO ALL IRONS AND REPLACE THOSE THAT ARE DISTURBED.
13. ALL 8" AND 10" STUBS OR 8" AND 10" INLETS AT MANHOLE LOCATIONS SHALL BE PLUGGED WITH TEMPORARY PLUGS. THIS WORK WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLES.

NOTE 14: GRANULAR EMBEDMENT MATERIAL SIX (6) INCHES IN DEPTH SHALL BE REQUIRED FOR CLAY PIPE OF ALL SIZES WHERE CONCRETE CRADLE IS NOT SPECIFIED. THE COST OF THIS GRANULAR EMBEDMENT SHALL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.

NOTE 15: SIX (6) INCH EMBEDMENT MATERIAL REQUIRED FOR REINFORCED CONCRETE PIPE SHALL BE INCLUDED IN PRICE BID PER LINEAL FOOT OF PIPE ALL SIZES.

*NOTE: Grading of ditch & shoulder shall be paid for at the price bid per lineal foot of Ditch Grading as measured along centerline of the pavement, which price shall include all cost for constructing the ditch and shoulder on both sides of the pavement. Contractor to work around existing utilities.

PAVEMENT CONSTRUCTION
TYPICAL SECTION

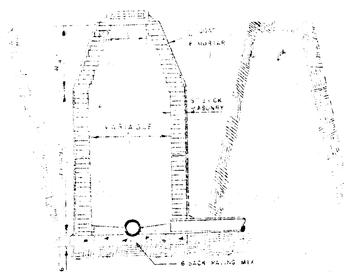


*NOTE: Backslope to be constucted as shown except where right-of-way is not adequate.

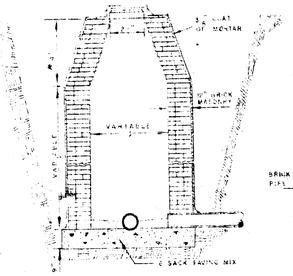
**NOTE: Width of pavement to be constructed as shown except at drainage structures at Sta. 0+00 & Sta. 40+50. Pavement width to be adjusted to conform to drainage structures at these locations using 200 foot transitions.

5/6

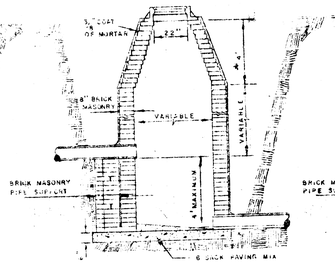
EXTENSION TO
SANITARY SEWER NO. 23
PROJECT NO. DBKJ 573032



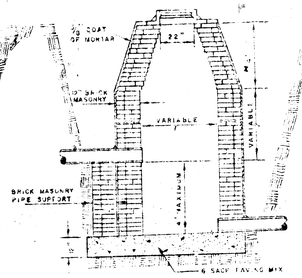
STANDARD MANHOLE
TYPE "A"



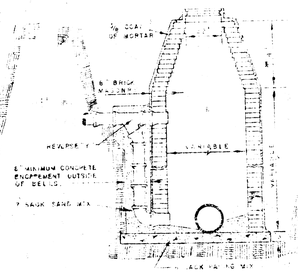
STANDARD MANHOLE
TYPE "B"



DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

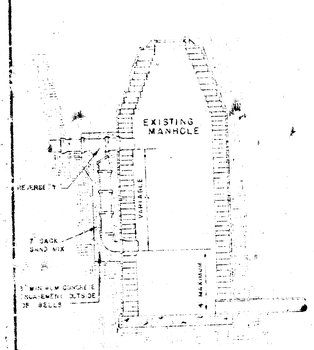


OUTSIDE DROP MANHOLE
TYPE "A"

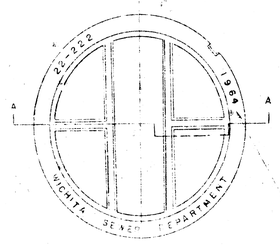


OUTSIDE DROP MANHOLE
TYPE "B"

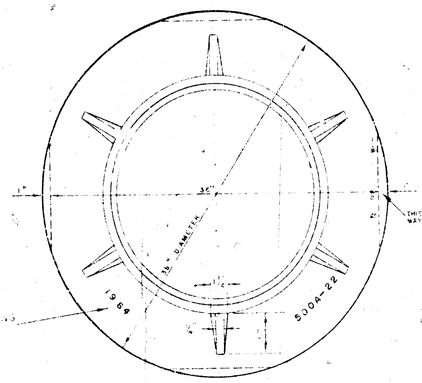
* DRAW = 6' ON 5' DIA. M.H.



DETAIL OF DROP STACK
FOR EXISTING MANHOLE IN GROUND WATER



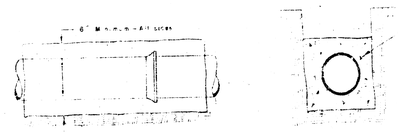
MANHOLE TOP



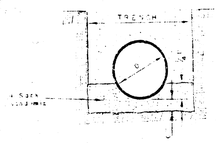
TOP VIEW
MANHOLE RING
WEIGHT 555 LBS.



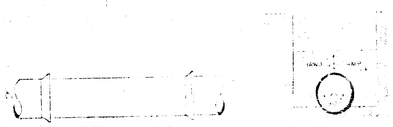
REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH



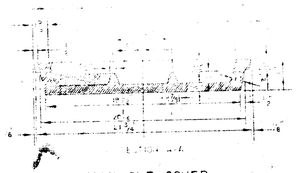
CONCRETE ENCASEMENT
FOR COVER



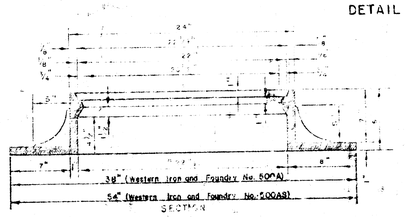
DETAIL OF CONCRETE CRADLE



ORDINARY BEDDING METHOD

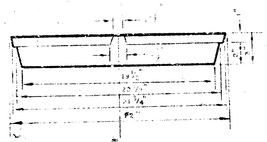


MANHOLE COVER

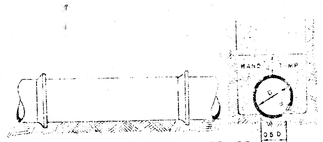


MANHOLE RING

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



MANHOLE COVER



ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE

MANHOLES

THE JUNCTION WITH A PIPE LARGER THAN 24" SHALL BE MADE IN A MANHOLE. ALL MANHOLES SHALL CONTAIN STEPS OR LADDERS AS GIVEN HEREINBELOW.

STANDARD MANHOLES AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE USED AT ONE SPACE AS FOLLOWS:

MANHOLES FOR SEWERS OUTSIDE ROAD EASEMENTS SHALL BE OF TYPE "A" MANHOLES.

ALL MANHOLES WITH PIPES 24" AND SMALLER SHALL BE OF TYPE "A" MANHOLES.

ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE OF TYPE "B" MANHOLES.

DROP MANHOLES SHALL BE OF DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN. ALL DROPS WITH PIPES 24" & SMALLER SHALL BE STACK

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
PROJ. NO. 1964 DBKJ 573032