LATERAL 1, MAIN 7, S.S. NO. 23

PROJECT NO. DBKL 574091

CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

SEPTEMBER, 1974

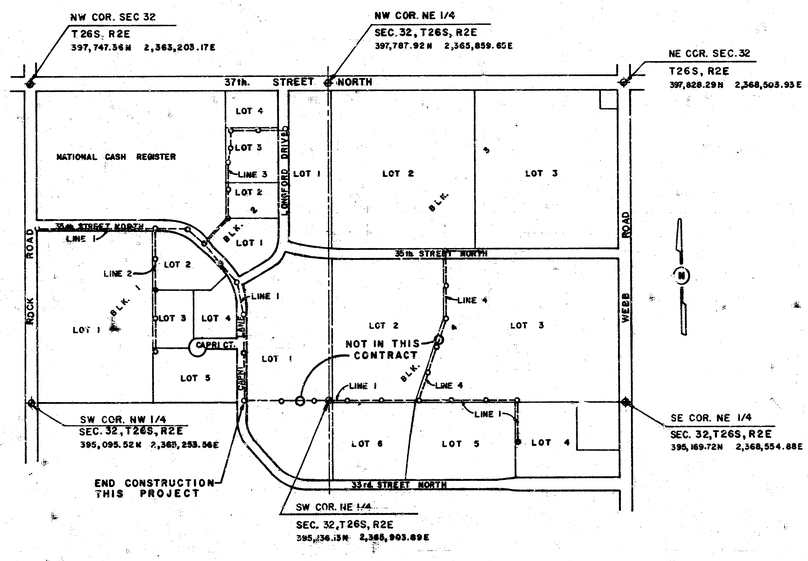
NOTES:

Sand Backfill in place including cost of sand, placing, jetting and vibrating shall be included in the price bid for Lin. Ft. of sewer pipe.

The cost of clearing right of way to facilitate construction of sanitary sewers shall be incidental to the project.

INDEX TO DRAWINGS

SHEET TITLE	SHEET NO.
TITLE & LOCATION MAP	1
LINE 1	2 - 4
LINE 2	5
LINE 3	6
SEWER APPURTENANCES	7 - 8



LOCATION MAP

VAN DOREN-HAZARD-STALLINGS
ENGINEERS-ARCHITECTS · · · TOPEKA, KANSAS

SHEET 1 OF 8

B.M. RR. SPK. W Face PP 50'E & 83'S
℄ Rock Road & 35TH St. N. Elev. 198.82

NCR

ROCK ROAD

℄

Sta 2+00.0
Const. Std. Type "A" or "C" M.H
6538.78 3306.00

Sta 7+00.0
Const. Std. Type "A" or "C" MH
6546.41 3805.94

Sta ~~8+50.0~~ 9+50.7
Const. Std. Type "A" or "C" M.H.
6550.23 4055.91

12" Water

R/W 50' ℄

35 TH. STREET NORTH

1188.00'

71'

100'

Line 1

225°-0'-05"

120°-40'-04"

N 89°-07'-32" E

R/W 50' ℄

10'

10'

56'

Exist. 6" S.S.

Pump Sta.

62'

Remove & Replace 195 S.Y. asph. pvmt.

0+53

~~4+50.0~~ 4448.8
Sta ~~4+50.0~~
Const. Std. Type "A" or "C" MH.
6542.60 4555.97

Const. 6" Reinf. Conc. Driveway Pavement.

Sta 0+00.0 Line 2
Sta ~~12+33.0~~ Line 1 12+33.2
Const. Std Type "A" or "C" MH
6554.56 4338.88

15+24.5
Sta ~~15+24.0~~
Const. Std. Type "A" or "C"
6559.00 4630.49

Line 2

50' Utility & Drainage Easement
C. P.351 & 352 M.
(Rec. Map)

LOT - 1
BLK 1

LOT-2
BLK 1

20' Water

PLAN SCALE 1" = 50'
PROFILE SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

0+53.0
Sta. Wet Well

Sta 2+00.0 Const. Std Type "A" or "C" MH Top Elev. 197.70

Sta 4+50.0 Const. Std Type "A" or "C" MH Top Elev. 200.00

Sta 7+00.0 Const. Std Type "A" or "C" MH Top Elev. 201.9

Sta 9+50.0 Const. Std Type "A" or "C" MH Top Elev. 203.30

Sta 12+33.0 Const. Std Type "A" or "C" MH Top Elev. 204.00

Sta 15+24.0 Const. Std Type "A" or "C" MH Top Elev. 207.00

Existing Ground

Future Curb Line

℄ Rock Rd.

Line 1

191.1 L.F. 12" V.C.P. @ 0.88%

260 L.F. 12" V.C.P. @ 0.88%

260 L.F. 12" V.C.P. @ 0.68%

260 L.F. 12" V.C.P. @ 0.68%

283 L.F. 12" V.C.P. @ 0.68%

292 L.F. 12" V.C.P. @ 0.68%

℄ in 189.00
189.25
℄ Pvt. 189.75
℄ in 189.85
190.22
194.61
192.05
192.56
193.02
193.75
194.43
195.11
℄ in 195.45
195.29
196.82
197.57
℄ out 197.80
℄ in 197.87
192.63
℄ out 199.36
199.96
199.16
194.51

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

215 210 206 200 196 190 186 180

LAT. (MAIN 7 S.S. NO. 3
PROJ. NO. DBKL
SHEET 2 OF 8 LINE 1 2/8

PLATE I PLAN-PROFILE A.P.R. STANDARD

PROFILE
NOTE PLAN AT TOP OF SHEET

FILMED FROM THE BEST AVAILABLE COPY.....

LONGFORD DRIVE

12" Water

22+80
Sta ~~22+68.75~~
Const. Std. Type "A" or "C" M.H.
6029.53 5148.56

221°-16'-11"

25+00
Sta ~~25+08.73~~ Back = ~~24+96.57~~ Ahead
Const. Std. Type "A" or "C" M.H.
5789.57 5153.12

LOT 1 BLK. 4

28+76.4
Sta ~~28+65.51~~
Const Std Type "A" or "C" M.H.
5459.63 5159.39

CAPRI LANE

12" Water

Line 1

N 5°-08'-18" W

10'

12' RCP

16' RCP

70'

41'

LOT 1 BLK. 2

NORTH STREET

12" Water

Line 3

5'

N 49°-32'-32" E

177°-34'-05"

N 39° 55' 35" W

19+59.5
Sta ~~19+52.90~~
Const. Std Type "A" or "C" M.H.
6262.85 4935.82

35TH

193° 37'-32"

15+89.97

N 39°-33'-01" W

17+12.4
Sta ~~17+11.75~~ = Sta 0+25 Line 3
Const Std Type "A" or "C" M.H.
6447.84 4761.00

15+24.5
Sta ~~15+24.64~~
Const Std Type "A" or "C" M.H.
6559.00 4630.49

LOT 2 BLK. 1

LOT 4

LOT 5 BLK. 1

CAPRI COURT

8" Water

Sta 25+08.73 Back = 24+96.57 Ahead
Const Std Type "A" or "C" M.H.
Top Elev 220.00

BM Chiseled □ on Conc. Light Post Base
119' LT Sta 15+16. 35th St. N. Elev 208.41

PLAN SCALE : 1" = 50'
PROFILE SCALE
HORZ: 1" = 50'
VERT: 1" = 5'

Sta 19+29.69 Const. Std. Type "A" or "C" M.H. Top Elev. 204.00

Sta 17+11.75 Const. Std. Type "A" or "C" M.H. Top Elev. 208.90

Sta 19+52.90 Const. Std. Type "A" or "C" M.H. Top Elev. 214.90

Sta 23+68.75 Const. Std. Type "A" or "C" M.H. Top Elev 219.60

Sta 25+08.73 Const. Std. Type "A" or "C" M.H. Top Elev. 220.00

Sta 28+65.51 Const. Std. Type "A" or "C" M.H. Top Elev. 223.90

Sta 30+00.00 Const. Std. Type "A" or "C" M.H. Top Elev. 226.10

Existing Ground

Future Curb Line

Line 1

107 LF 12" VCP @ 0.63%

241 LF 12" VCP @ 1.0%

315 LF 12" VCP @ 1%

240 LF 12" VCP @ 1.0%

330 LF 12" VCP @ 0.4%

173 LF 12" VCP @ 0.4%

225 220 215 210 205 200 195

16 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

LAT. / MAIN 7 S.S. NO. 23
PROJ. NO. DBKL
SHEET 3 OF 8 LINE 1

3/8

PLATE 1 PLAN-PROFILE B.P.R. STANDARD

FILMED FROM THE BEST AVAILABLE COPY

Sta 28+46.4
Const Std Type "A" or "C" M.H.
545963 5159.39

Sta 30+00.0
Const Std Type "A" or "C" M.H.
5286.17 5162.69

41'
70'
12" Water
CAPRI LANE
Line 1
N 1°-05'-18" W
10'

BLK. 4

LOT 1

LOT 2

STA 31+85 TO STA 44+90
LINE 1 IS NOT A PART
OF THIS CONTRACT

Sta 38+30.0
Const. Std. Type "A" or "C" M.H.
5111.12 5011.12

SW COR. NE 1/4
SEC. 32, T26S, R2E
395,136.13 N
2,365,903.89 E

Sta 44+90.0
Const. Std. Type "A" or "C"
5121.27 6471.09

End Construction
This Project

30' Utility easement

90°-12'-27"

N 0°-53'-52" E

Line 1

5'

Sta 32+66.3
Const Std Type "A" or "C" M.H.
5101.20 5166.20
Install 12" Stub East

Sta 35+00.0
Const. Std Type "A" or "C" M.H.
6106.04 5481.16

Sta 41+60.0
Const. Std. Type "A" or "C" M.H.
5116.19 6141.08

LOT 3

PLAN SCALE 1" = 50'
PROFILE SCALE
HORZ. 1" = 50'
VERT. 1" = 5'

Sta 30+00.0 Const Std
Type "A" or "C" M.H.
Top Elev 228.10

Sta 31+60.0 Const Std
Type "A" or "C" M.H.
Top Elev 229.90

Sta 35+60.0 Const Std
Type "A" or "C" M.H.
Top Elev 234.5

Sta 41+60.0 Const Std
Type "A" or "C" M.H.
Top Elev 233.0

Sta 44+90.0 Const Std
Type "A" or "C" M.H.
Top Elev 227.90

Existing Ground

185 LF 12" VCP @ 0.4%

315 LF 12" VCP @ 0.4%

330 LF 12" VCP @ 0.4%

330 LF 12" VCP @ 0.8%

330 LF 12" VCP @ 0.4%

Line 1

Not Part Of This Contract

240
235
230
225
220
215
210
205

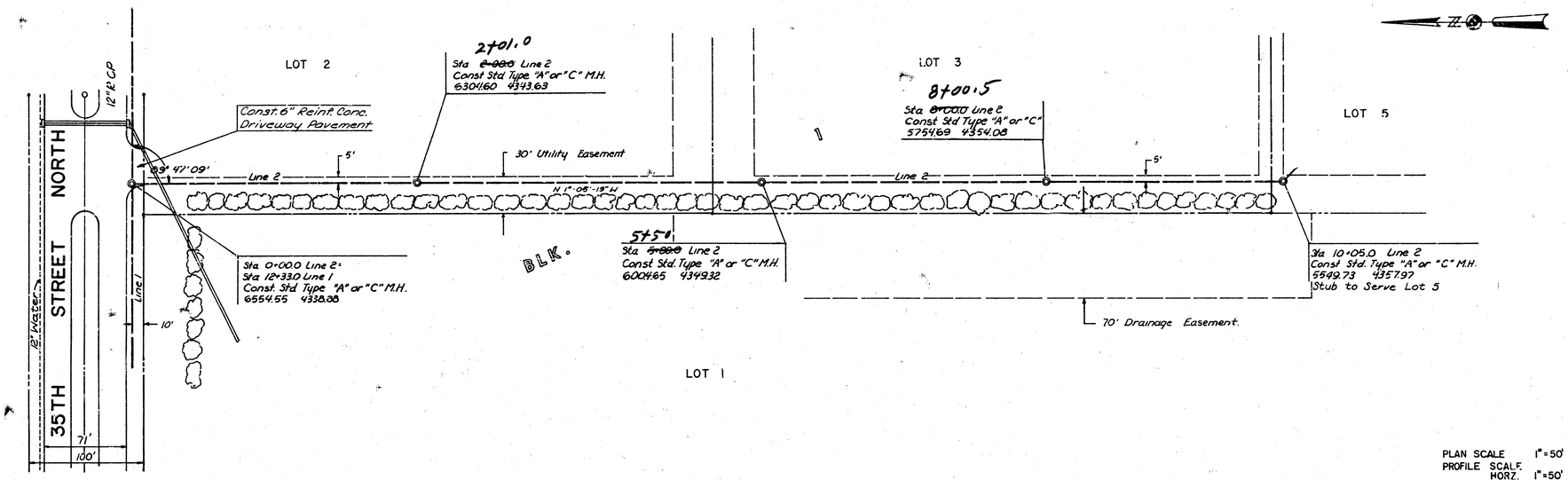
21.83
21.85
22.25
Ecl 212.59
Ecl 212.69
22.25
21.95
22.55
23.95
24.35
24.47
25.16
25.87
25.95
25.95
26.35
26.59
26.76
27.26
27.91
27.55

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

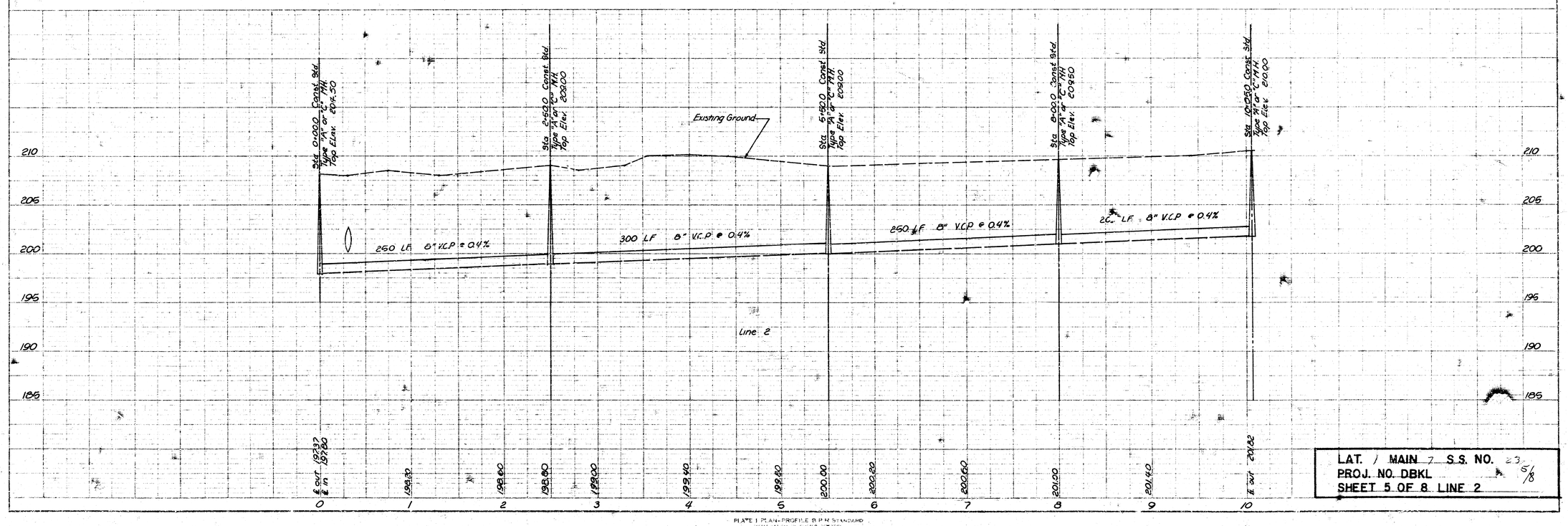
LAT. MAIN S.S. NO.
PROJ. NO. DBKL
SHEET 4 OF 8 LINE 1 4/8

PLATE 1 PLAN-PROFILE 8 P & S STANDARD
EUGENE DISTRICT OF ENGINEERS - NEW YORK

FILMED FROM THE BEST AVAILABLE COPY.....



PLAN SCALE 1" = 50'
PROFILE SCALE, HORZ. 1" = 50'
VERT. 1" = 5'



LAT. / MAIN 7 S.S. NO. 23
PROJ. NO. DBKL 5/8
SHEET 5 OF 8 LINE 2

PLATE I PLAN-PROFILE S.P.W. STANDARD

Sta 0+000 Line 3 = Sta 17+11.75 Line 1
Const. Std Type "A" or "C" M.H.
6447.84 4781.00

NORTH

PT 15+89.97

95° 49' 53"

12" Water Line 1

STREET

35TH

232.71'

NCR

LOT 3
BLK 2

70' drainage & utility easement

LOT 4
BLK 2

5'

12+25
Sta ~~12+00~~ Line 3
Const. Std Type "A" or "C" M.H.
7383.39 5206.87

10+19.3
Sta ~~10+46.43~~ Line 3
Const. Std. Type "A" or "C" M.H.
7382.39 5005.32

Line 3

460.02'

14+98.1
Sta ~~15+85.00~~ Line 3
Const. Std Type "A" or "C" M.H.
7389.69 5403.83

7+61.6
Sta ~~7+84.77~~ Line 3
Const. Std. Type "A" or "C" M.H.
7127.76 4970.25

2+88.6
Sta ~~2+41.67~~ Line 3
Const. Std. Type "A" or "C" M.H.
6654.35 4979.25

138° 03' 20"

5'

Line 3

284.09'

10' utility easement

5+25
Sta ~~5+00~~ Line 3
Const. Std Type "A" or "C" M.H.
6893.04 4974.71

473.47'

50' drainage & utility easement

158° 02' 05"

158° 02' 05"

5'

8+69.7
Sta ~~8+21.43~~ Line 3
Const. Std Type "A" or "C" M.H.
7227.42 5008.26

09° 47' 09"

5'

70'

LOT 1

LOT 2

LOT 3

LONGFORD DRIVE

41'

70'

8.93'

Install Stub To Serve Lot 1

PLAN SCALE 1"=50'
PROFILE SCALE
HORZ: 1"=50'
VERT: 1"=5'

Sta 0+250 Line 3 = Sta 17+11.75 Line 1 Const. Std Type "A" or "C" M.H. Top Elev. 208.30

Sta 3+11.82 Const Std Type "A" or "C" M.H. Top Elev. 212.00

Sta 5+50.0 Const Std Type "A" or "C" M.H. Top Elev. 216.60

Sta 7+61.77 Const Std Type "A" or "C" M.H. Top Elev. 214.00

Sta 8+69.43 Const Std Type "A" or "C" M.H. Top Elev. 213.00

Sta 10+46.43 Const Std Type "A" or "C" M.H. Top Elev. 212.50

Sta 12+60.0 Const. Std Type "A" or "C" M.H. Top Elev. 213.50

Sta 15+25.0 Const. Std Type "A" or "C" M.H. Top Elev. 214.90

Existing Ground

311 LF 8" V.C.P @ 0.4%

238 LF 8" V.C.P @ 0.4%

224 LF 8" V.C.P @ 0.4%

106 LF 8" V.C.P @ 0.4%

155 LF 8" V.C.P @ 0.4%

203 LF 8" V.C.P @ 0.4%

275 LF 8" V.C.P @ 0.4%

Line 3

℄ out (n. west) 200.28
℄ in (n. east) 200.18

200.46

200.86

℄ out 202.30
℄ in 202.40

202.26

202.76

203.16

℄ out 203.35
℄ in 203.35

203.55

203.95

℄ out 204.89
℄ in 204.99

204.46

℄ out 204.82
℄ in 204.92

204.96

205.36

℄ out 206.54
℄ in 206.64

206.84

206.26

℄ out 206.46
℄ in 206.46

206.65

202.06

202.46

℄ out 202.26

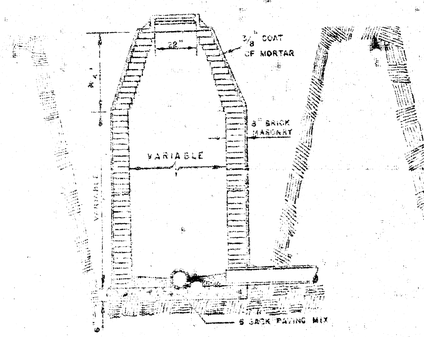
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

220 215 210 205 200 195

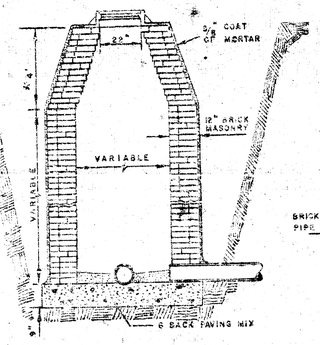
LAT. MAIN S.S. NO.
PROJ. NO. DBKL
SHEET 6 OF 8 LINE 3

6/8

PLATE I PLAN-PROFILE G.P.R. STANDARD

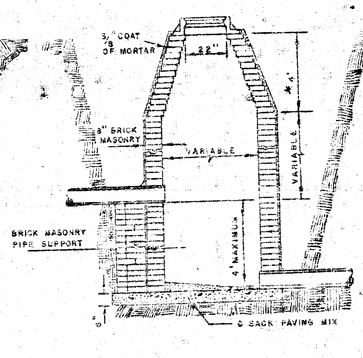


STANDARD MANHOLE
TYPE "A"

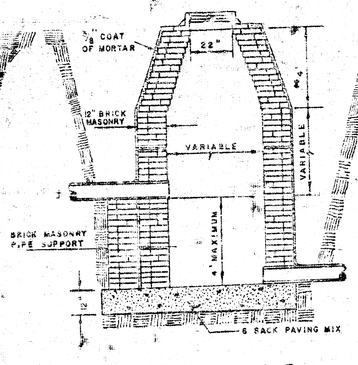


STANDARD MANHOLE
TYPE "B"

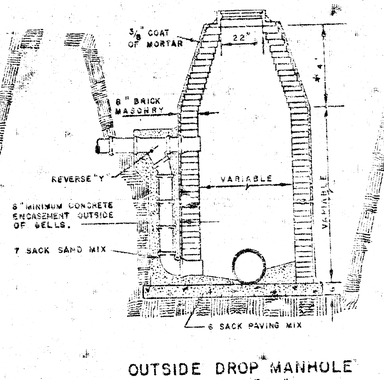
* DRAW = 6' ON 5' DIA. M.H.



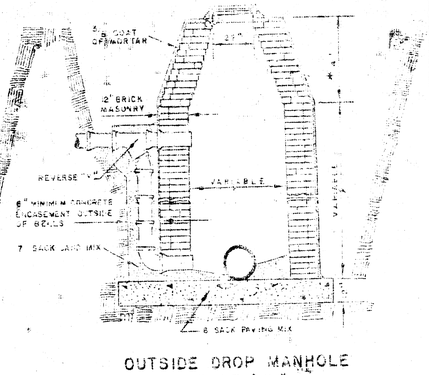
DROP MANHOLE
TYPE "A"



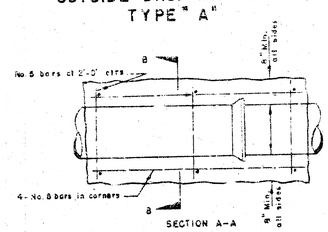
DROP MANHOLE
TYPE "B"

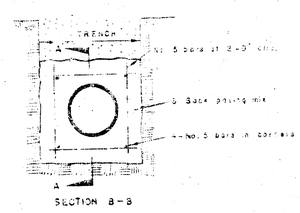


OUTSIDE DROP MANHOLE
TYPE "A"

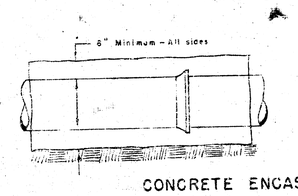


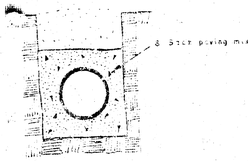
OUTSIDE DROP MANHOLE
TYPE "B"



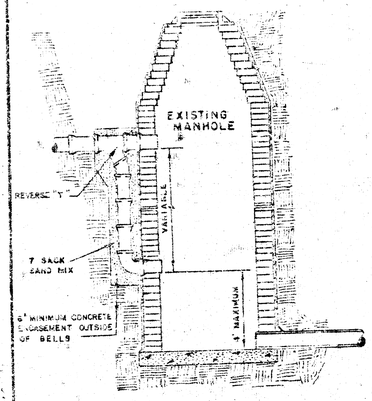


REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH

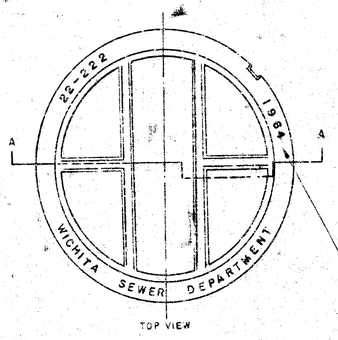




CONCRETE ENCASEMENT
FOR COVER



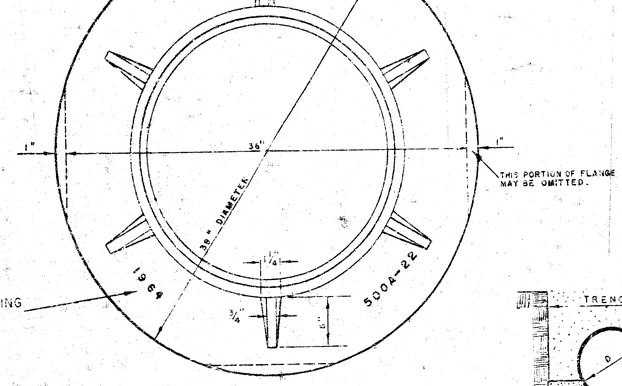
DETAIL OF DROP STACK
FOR EXISTING MANHOLES IN GROUND WATER



TOP VIEW

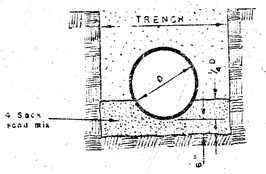
MANHOLE COVER
WEIGHT 110 lbs.

YEAR CASTING IS MADE

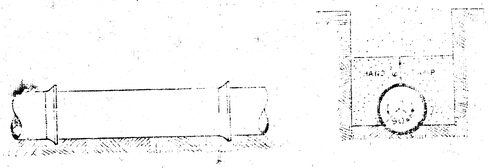


TOP VIEW

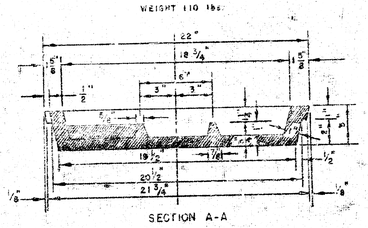
MANHOLE RING
WEIGHT 355 lbs.



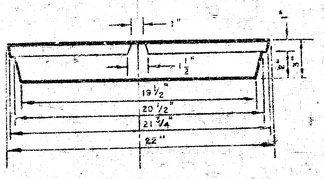
DETAIL OF CONCRETE CRADLE



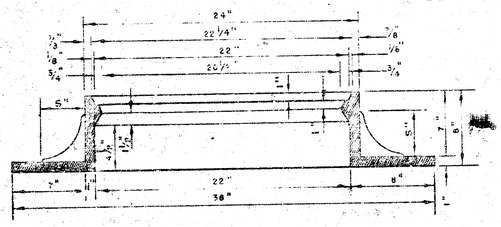
ORDINARY BEDDING METHOD
FOR CLAY PIPE



MANHOLE COVER

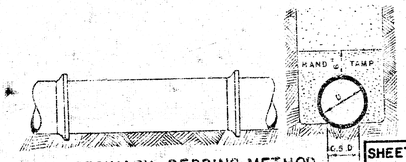


MANHOLE COVER



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.

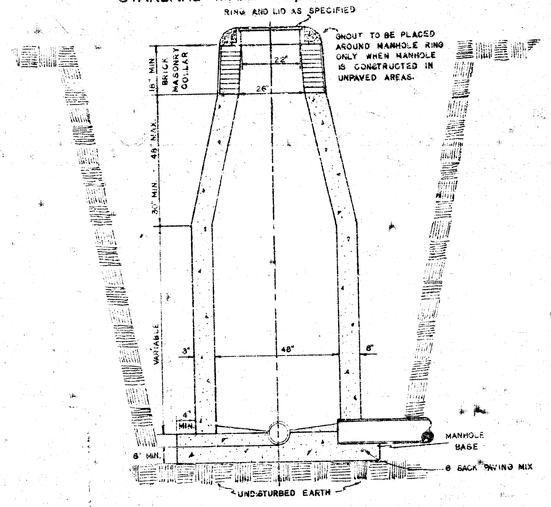
SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

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.

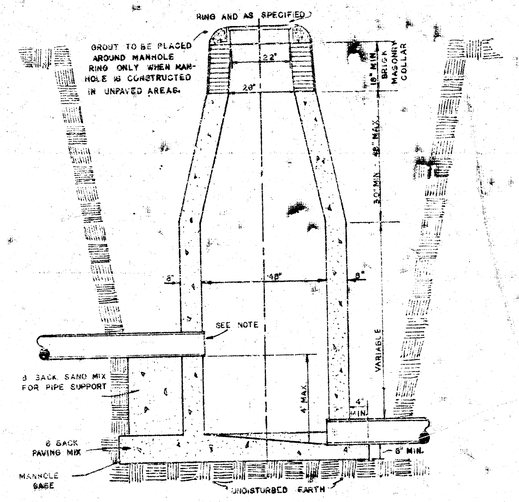
DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER
1964

SHEET 7 OF 8

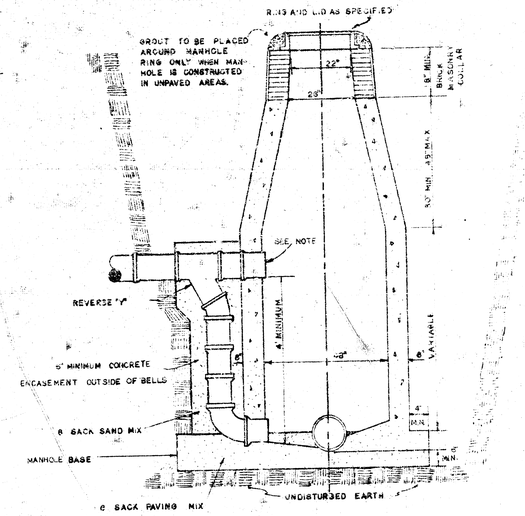
STANDARD MANHOLE, TYPE "C"



DROP MANHOLE, TYPE "C"



OUTSIDE DROP MANHOLE, TYPE "C"



GENERAL NOTES

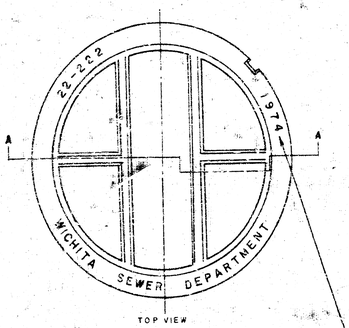
MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 6 SACKS OF CEMENT PER CUBIC YARD.

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 FLOWS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 6 SACK SAND MIX CONCRETE.

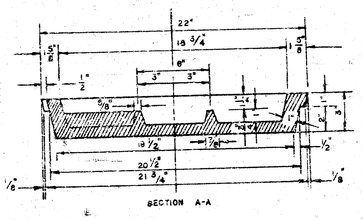
CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE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



TOP VIEW

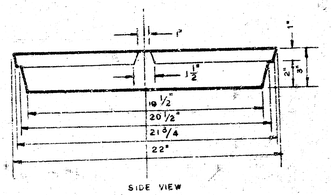
MANHOLE COVER

WEIGHT 110 LBS.



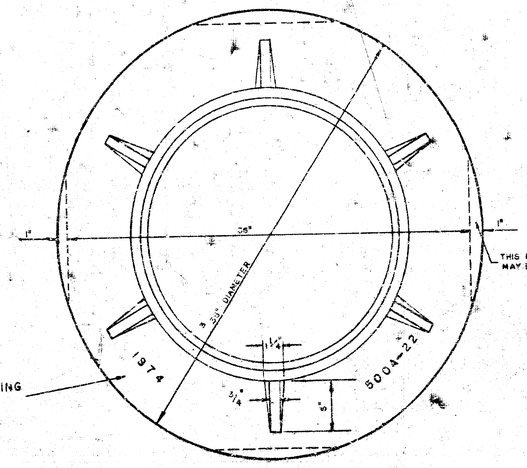
SECTION A-A

MANHOLE COVER



SIDE VIEW

MANHOLE COVER



YEAR CASTING IS MADE

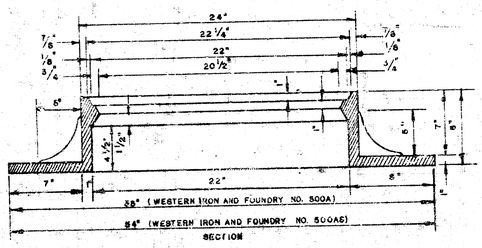
THIS PORTION OF FLANGE MAY BE OMITTED.

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

TOP VIEW

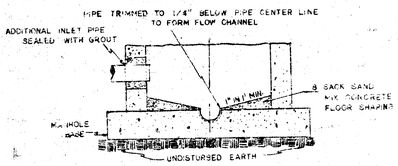
MANHOLE RING

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



SECTION

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
R. W. LINN CITY ENGINEER
1974

SHEET 8 OF 8

14 S 1 S