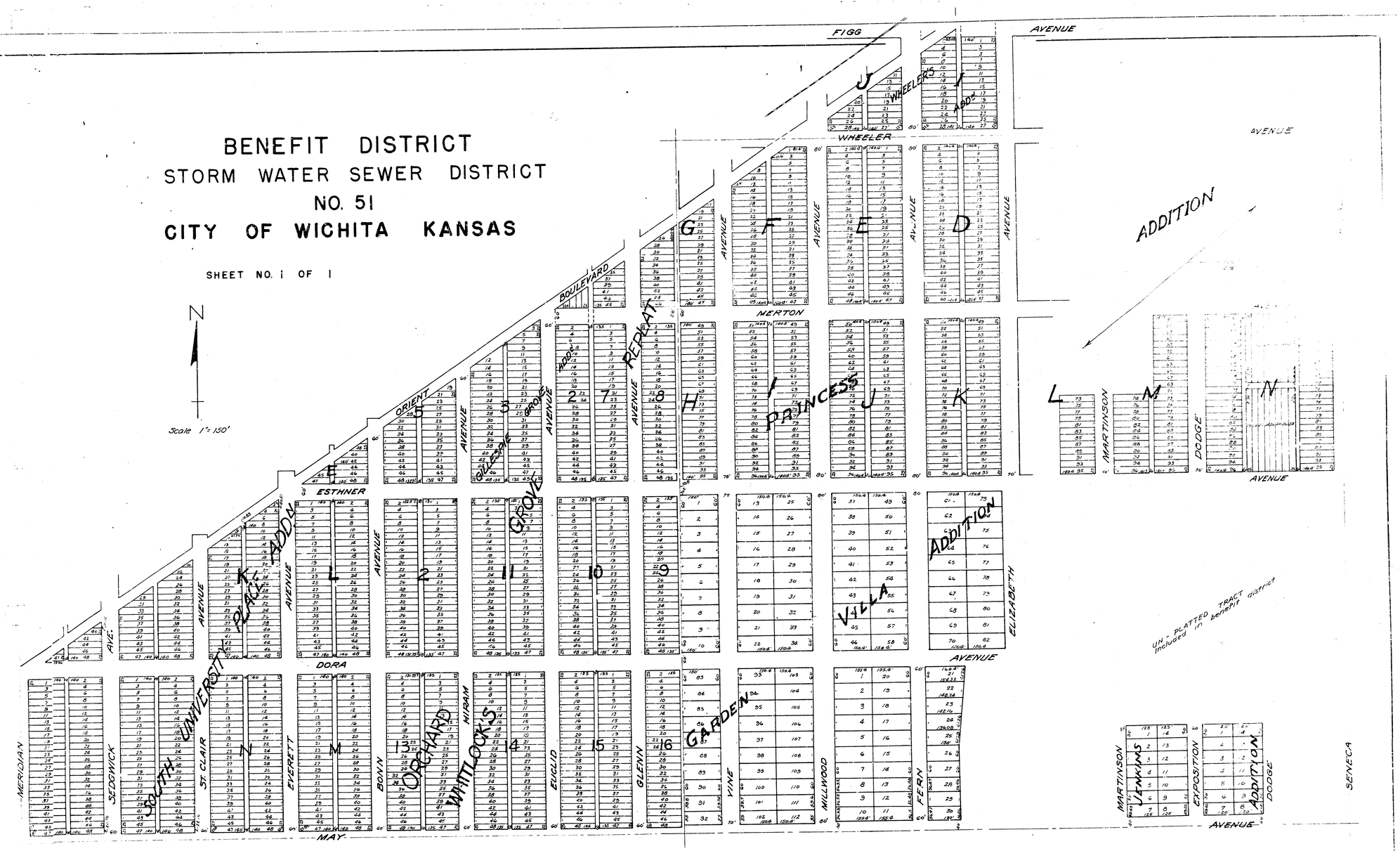
BENEFIT DISTRICT
STORM WATER SEWER DISTRICT
NO. 51
CITY OF WICHITA KANSAS

SHEET NO. 1 OF 1

N

Scale 1"=150'


FIGG
AVENUE
WHEELER'S ADD'N
WHEELER
AVENUE
ADDITION
BOULEVARD
ORIENT
AVENUE
ALLEGHENY
AVENUE
AVENUE
AVENUE
AVENUE
AVENUE
AVENUE
MERTON
PRINCESS
AVENUE
MARTINSON
DODGE
AVENUE
ESTHNER
ADD'N
AVENUE
AVENUE
AVENUE
AVENUE
AVENUE
GROVE
AVENUE
AVENUE
AVENUE
AVENUE
AVENU

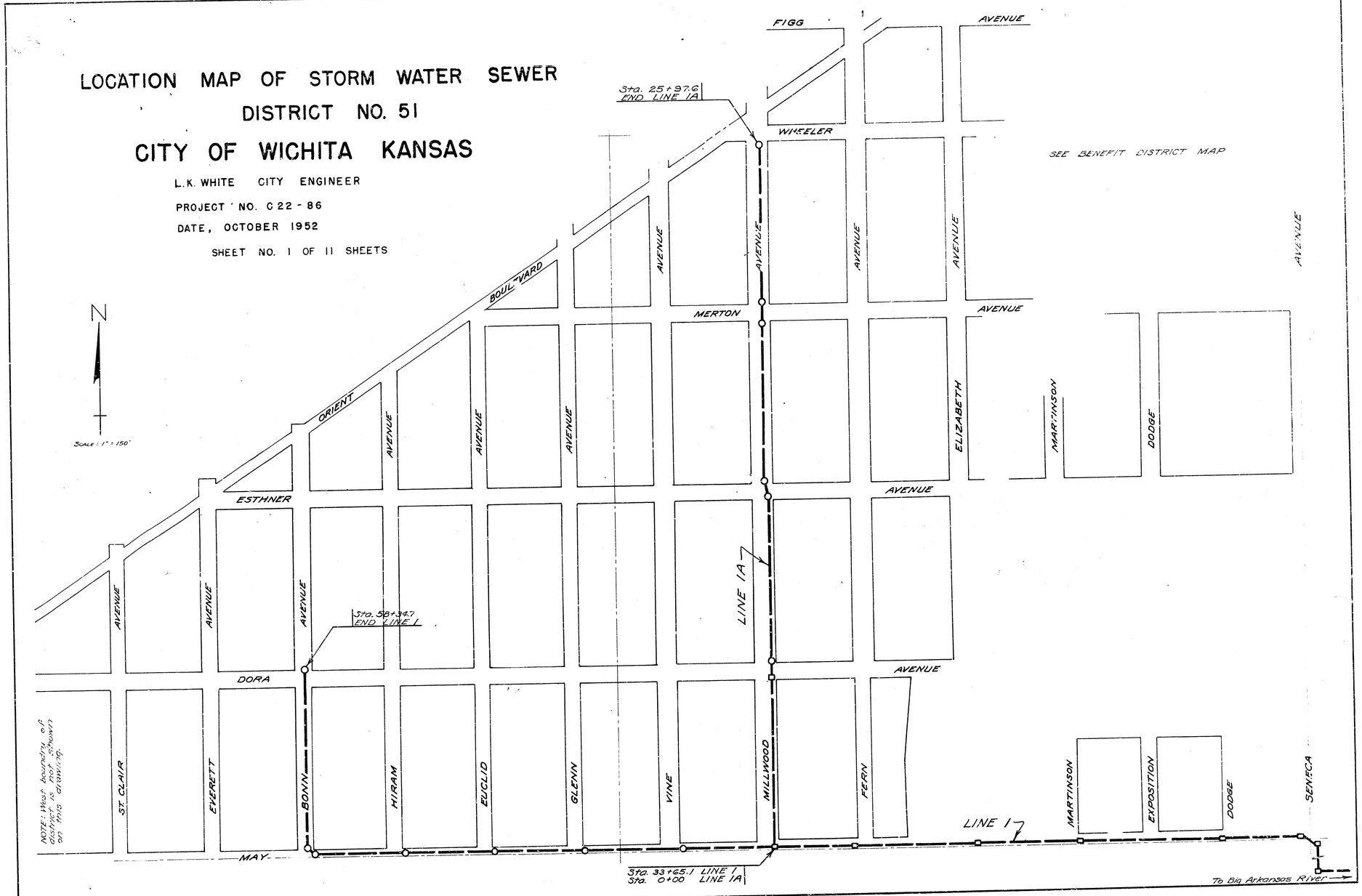
LOCATION MAP OF STORM WATER SEWER DISTRICT NO. 51 CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

PROJECT NO. C 22 - 86

DATE, OCTOBER 1952

SHEET NO. 1 OF 11 SHEETS



NOTE:
Where Said Fill is Used, Bid Price Includes Cost of Flushing. Where Excavated Material is Suitable for Fill, Flushing will be Paid as Lin. Ft. of Flushing. Bid Price of Flushing Shall include Labor, Water, & Equipment.

N

Scale 1"=40'

EXISTING MANHOLE ON 30" SANITARY SEWER I.E. 91.17 STA. 3+42 N.N. El. 101.17 F.L.E. 96.62

Reconstruct that portion of levee damaged during the construction of storm water sewer.

LEVEE

BIG ARKANSAS RIVER

Large Hedge Tree Sta. 5+44 45

8" Willow Sta. 5+34 40

12" Hedge Tree Sta. 5+24 40

Do not remove trees. If necessary move pipe line 2 or 3' South.

Construct Reinf. Concrete Outfall Structure. See Sht. #10 for details.

F.L.E. 93.37

P.R.

53'x 24" V.C.P.

F.L.E. 98.45

M.V.

F.L.E. 96.62

Sta. 4+76 Cross 30" V.C. Pipe El. top 30" V.C.P. 99.36

Sta. 10+48 Construct Reinf. Conc. Manhole See Sht. #10 for Details

SENECA Avenue

LINE 1

N

20' TUNNEL UNDER RAIL ROAD TRACK.

NOTE
All cast iron pipe to be class A Standard Bell and Spigot.

B.M. S. Rim Manhole 168' Lt. Sta. 4+58 El. 101.17

Timber sheathing to be left in place

Conc. Encasement, Dry cement grout, Tamped

48" R.C.P.

END ELEVATION
TUNNEL DETAIL
Scale ⅛" = 1'-0"

BILL OF MATERIAL FOR TUNNEL 20' LONG
40 - 3" x 12" x 8' Plank
40 - 3" x 12" x 6' "
14 cu. yds. conc. grout.

Railroad Crossing:
With permission from the Railroad, pipe may be laid in open ditch at option of the Contractor. In this case, payment will be made on Bid Price of 48" R.C.P.

Applalt Surface

SENECA

2" Ind. Ft. Gas

8 Pairs 6' Ry

25'-2" Wood Cribbing 4' Ry

12"x18" C.M.P. 8' Ry

4 Pairs 6' Ry

Date Oct. 1952
Drawn by J.L.A
Checked by
Note Book No. 5-12

PROFILE SCALE 1" = 40' Horiz.
1" = 4' Vert.

El. Top E. Rail 102.96
El. Top W. Rail 102.85

30" V.C.P.

10+48

48" R.C.P. 0.10% 48" R.C.P. 0.10% 48" R.C.P. 0.10%

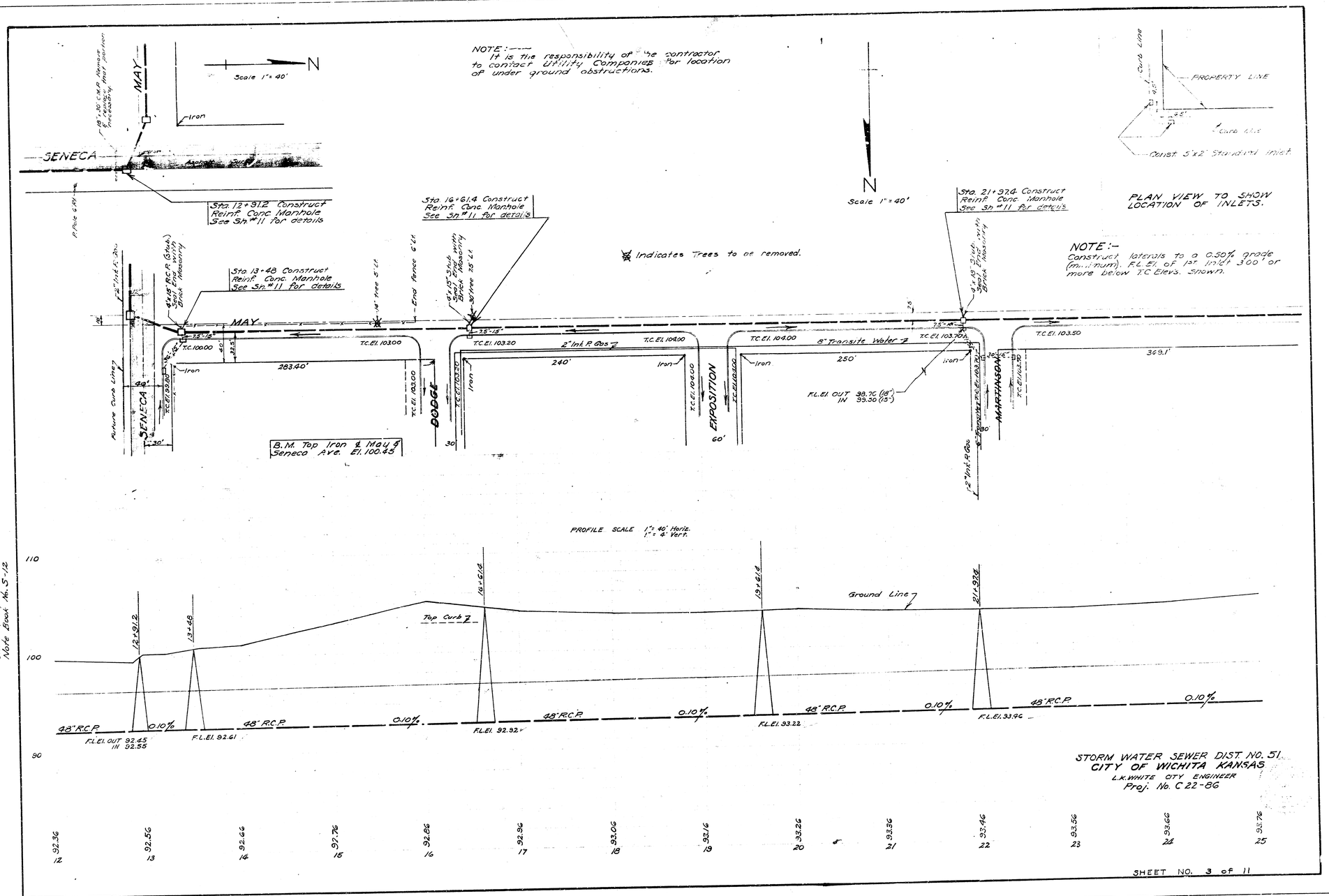
F.L. El OUT 92.11
IN 92.21

F.L. River 86.70

110
100
90

91.06 0+00 | 91.16 1 | 91.26 2 | 91.36 3 | 91.46 4 | 91.56 5 | 91.66 6 | 91.76 7 | 91.86 8 | 91.96 9 | 92.06 10 | 92.26 11 | 92.36 12

STORM WATER SEWER DIST. NO. 51.
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 22-86



Date Oct. 1952
Drawn by J.L.A.
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STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
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SHEET NO. 3 of 11

Sta. 25+36.5 Construct Reinf. Conc. Manhole See Sh.# 11 for details

Sta. 30+51.3 Construct Reinf. Conc. Manhole See Sh.# 11 for details

Sta. 33+65.1 LINE 1
Sta. 0+00 LINE 1A
Const. Reinf. Conc. Manhole See Sh.# 11 for details

Sta. 37+28.9 Const. Manhole

Scale 1"=40'

MAY AVENUE

ELIZABETH

FERN

MILLWOOD

10" tree 6' Lt.
8" poplar 36' Lt.
8" Cottonwood 36' Lt.
8" poplar 36' Lt.
5' Lt.
3-4" 3 Lt. / Pile 10' Rt.
3" tree 7' Lt.
3" tree 7' Rt.
40' Cottonwood 6' Rt.
End Fence 16' Lt.
5-6" Elms 23' Rt.
5" Elm 5' Rt.
36' Cottonwood 36' Lt.
30'
30'
4' Lt.
4' Lt.
4'x 10' (I.D.) Std. End with Brick Masonry
4'x 10' (I.D.) Std. End with Brick Masonry

T.C. El. 103.00
T.C. El. 103.00
T.C. El. 103.00
T.C. El. 103.00
T.C. El. 103.26
T.C. El. 102.54
T.C. El. 102.22
T.C. El. 102.22
T.C. El. 102.77
T.C. El. 102.83
T.C. El. 102.83
T.C. El. 103.15
T.C. El. 103.15
T.C. El. 103.15
T.C. El. 103.15
T.C. El. 103.15

310.8'
310.8'
300.8'

Remove & re-construct combined curb & gutter. Estimate 24 lin. Ft.

Remove & re-construct combined curb & gutter. Estimate 24 lin. Ft.

Remove 36 sq. yds. conc. pavement. Const. 41.3 sq. yds. conc. pavement. Remove 24 lin. ft. combined curb & gutter. Construct 24 lin. ft. integral curb.

70'
60'
80'
75'

B.M. "B" in Globe, end E. curb on Fern, N.L. May Ave. El. 102.23

B.M. "B" in Globe, end E. curb on Vine, N.L. May Avenue El. 103.02

PROFILE SCALE 1"=40' Horiz.
1"=4' Vert.

Ground Line

25+36.5
30+51.3
33+65.1
34+68.1
37+28.9

48" R.C.P. 0.10%
F.L. El. 93.86
48" R.C.P.
0.10%
F.L. El. 94.31
48" R.C.P.
0.10%
F.L. El. OUT 94.23
IN 94.73
0.10%
36" R.C.P.
F.L. El. 94.80
36" R.C.P.
0.10%
36" R.C.P.
F.L. El. 95.09
0.10%

110
100
90

93.76 25
93.86 26
93.96 27
94.06 28
94.16 29
94.26 30
94.36 31
94.46 32
94.56 33
94.76 34
94.86 35
94.96 36
95.06 37
95.16 38

Date Oct. 1952
Drawn by J.L.A.
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STORM WATER SEWER DIST. NO. 51
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1/4 Section Stone (6" deep) DO NOT DISTURB

Sta. 40+98.3 Const. Manhole.

Sta. 44+46.9 Const. Manhole.

Sta. 47+94.9 Const. Manhole.

Sta. 51+42.9 Const. Manhole.

Scale 1" = 40'

12" Water Line

28" Cottonwood 6' Lt.

3"S. Elm 3' Rt. 10" Hedge Tree 4' Lt.

1-2" Iron Pipe

Basin Rim 7.5' Lt.

End Fence 7' Lt.

Fence 12' Lt.

Future Curb Line

T.C. El. 103.30

T.C. El. 103.00

T.C. El. 103.20

T.C. El. 102.70

T.C. El. 102.90

T.C. El. 103.10

T.C. El. 102.60

T.C. El. 102.10

T.C. El. 103.25

T.C. El. 103.20

T.C. El. 103.20

T.C. El. 102.90

T.C. El. 103.35

T.C. El. 103.05

T.C. El. 102.60

T.C. El. 102.10

T.C. El. 101.85

VINE

GLENN

EUCLID

HIRAM

BONN

150'

135'

135'

135'

135'

135'

135'

135'

18'

18'

60'

60'

60'

60'

PROFILE SCALE 1" = 40' Horiz.
1" = 4' Vert.

Ground Line

36" R.C.P. 0.10% 36" R.C.P. 0.10% 30" R.C.P. 0.10% 30" R.C.P. 0.10%

F.L. El. OUT 95.81 IN 96.31

F.L. El. 96.65

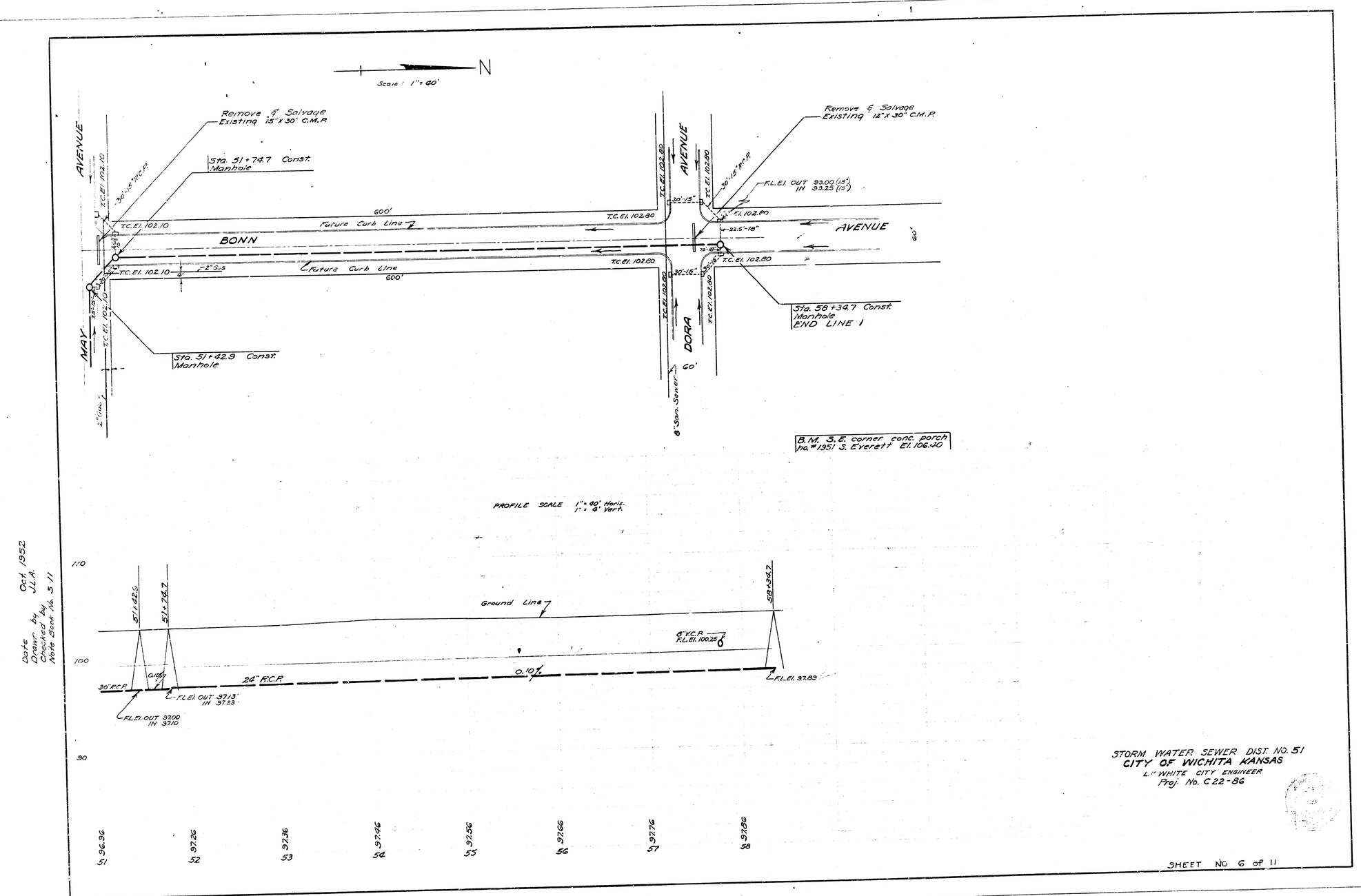
F.L. El. 97.00

	110	100	90
	40+98.3	44+46.9	47+94.9	51+42.9

95.16	95.26	95.36	95.46	95.56	95.66	95.76	96.36	96.46	96.56	96.66	96.76	96.86	96.96
38	39	40	41	42	43	44	45	46	47	48	49	50	51

Oct 1952
J.L.A.
Date
Drawn by
Checked by
Note Book No. 5-12

STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. 22-86



Date Oct. 1952
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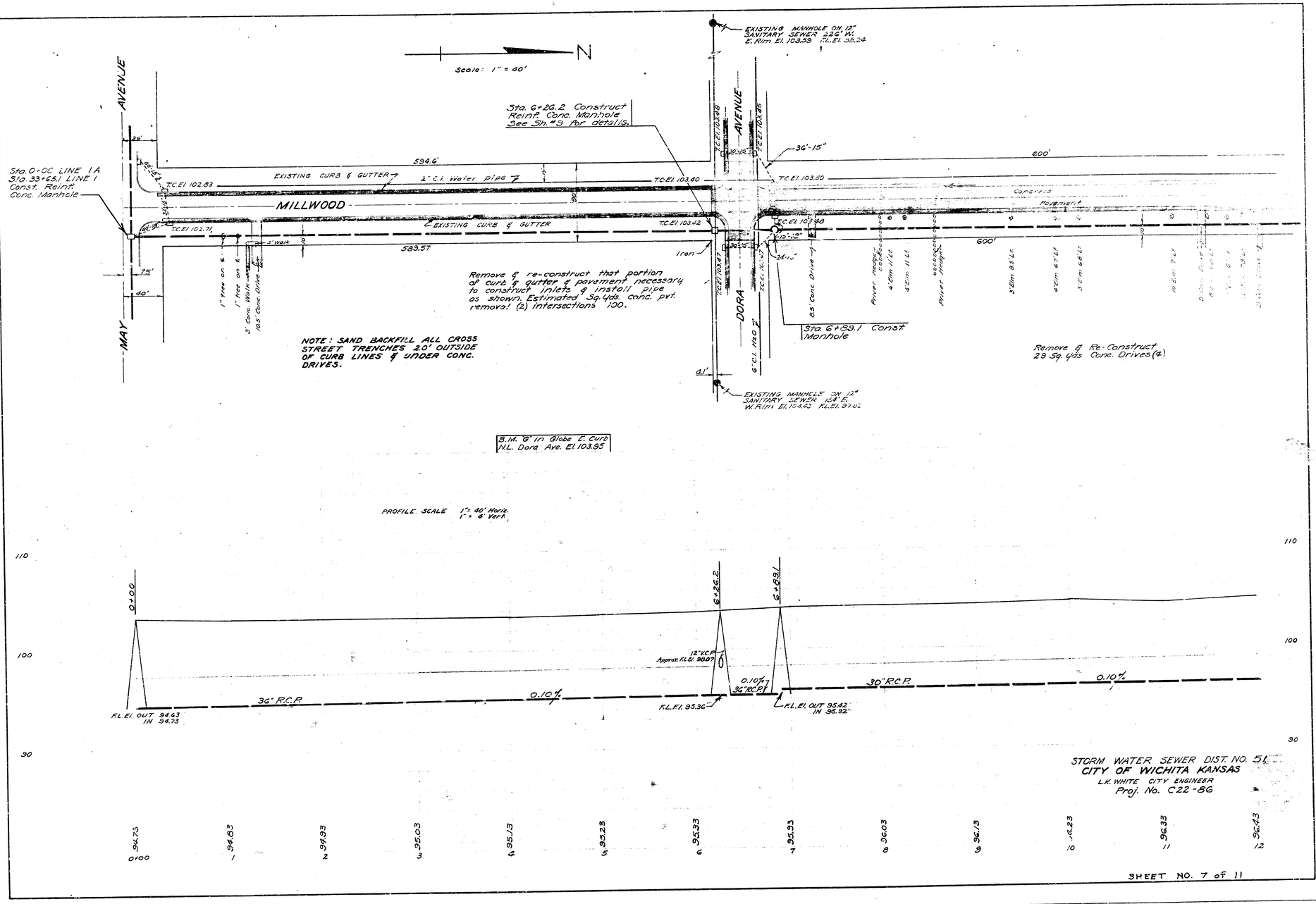
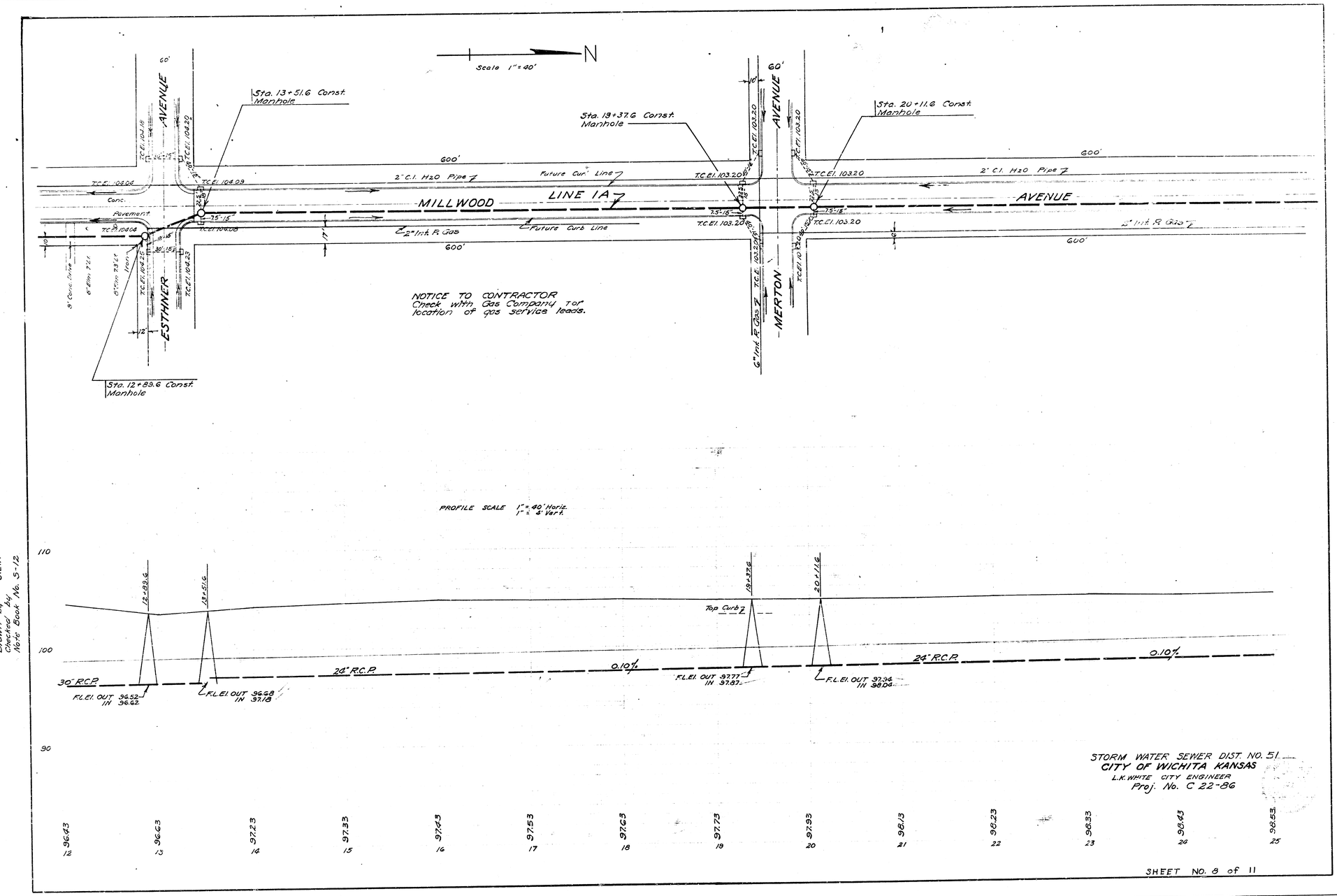
Note Book No. S-11

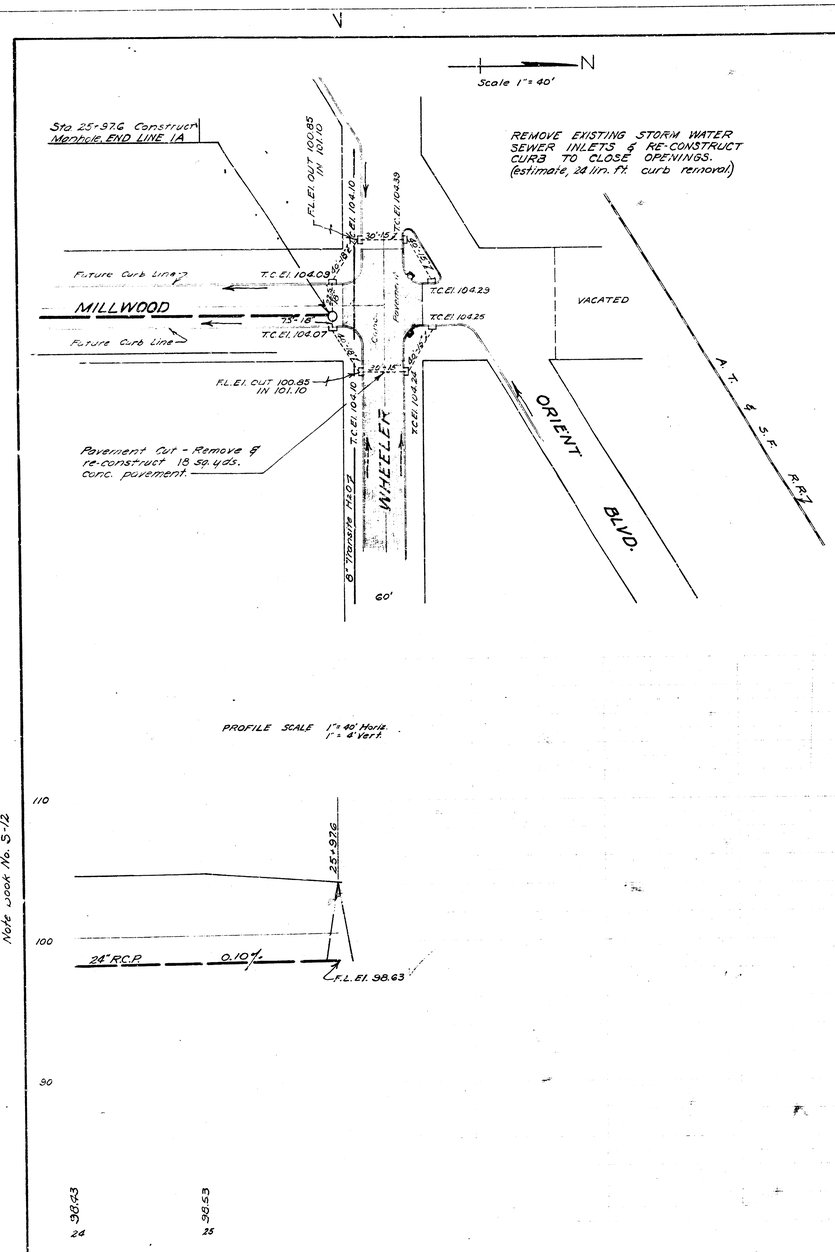
STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
L. WHITE CITY ENGINEER
Proj. No. C22-86

SHEET NO 6 of 11



STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C22-86


N
Scale 1" = 40'
60'
AVENUE
ESTHNER
MERTON
MILLWOOD
LINE 1A
AVENUE
600'
Sta. 13+51.6 Const. Manhole
Sta. 19+37.6 Const. Manhole
Sta. 20+11.6 Const. Manhole
Sta. 12+89.6 Const. Manhole
2" C.I. H20 Pipe
Future Curb Line
Conc. Pavement
2" Init. R. Gas
6" Init. R. Gas
T.C.El. 104.18
T.C.El. 104.20
T.C.El. 104.09
T.C.El. 104.06
T.C.El. 104.08
T.C.El. 104.23
T.C.El. 104.25
T.C.El. 103.20
T.C.El. 103.32
T.C.El. 103.20
T.C.El. 103.20
T.C.El. 103.20



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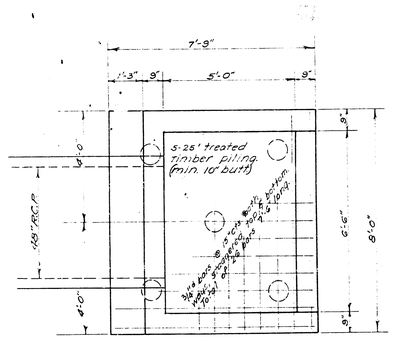
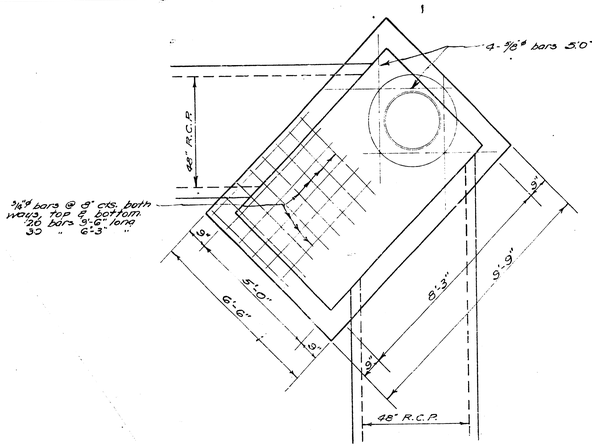
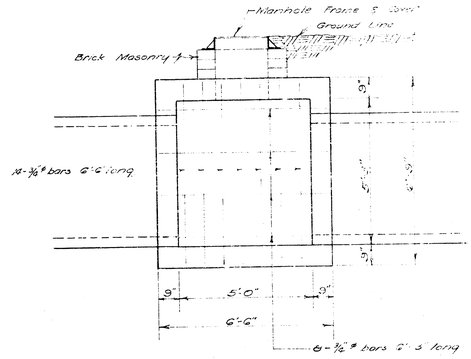


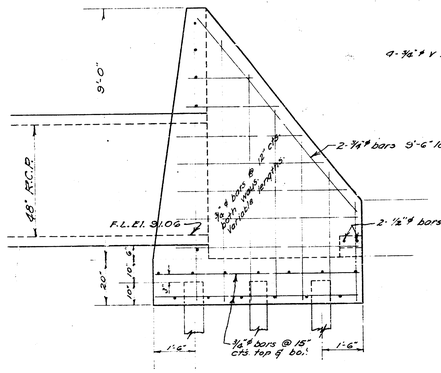
PLAN VIEW



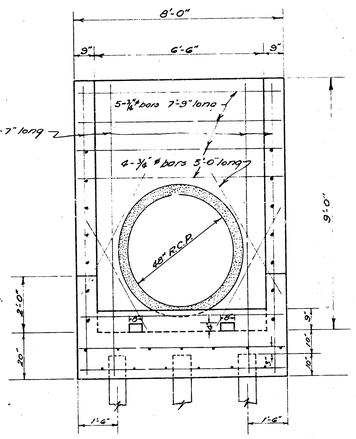
PLAN VIEW



END ELEVATION



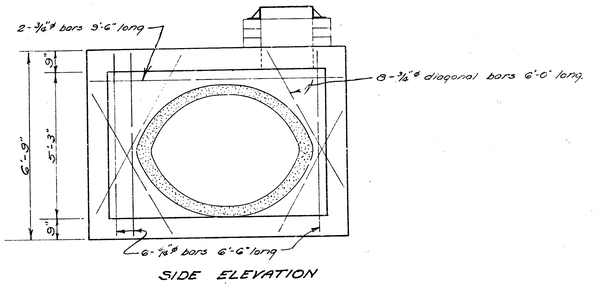
SIDE ELEVATION



END ELEVATION

OUTFALL STRUCTURE

SCALE: 1½"=1'-0"

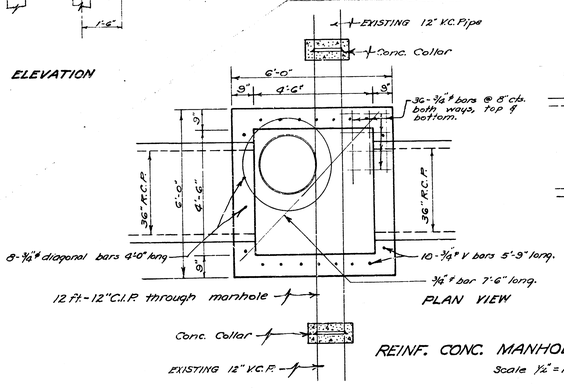


END ELEVATION

SIDE ELEVATION

REINF. CONC. MANHOLE Sta. 10+48 Line 1

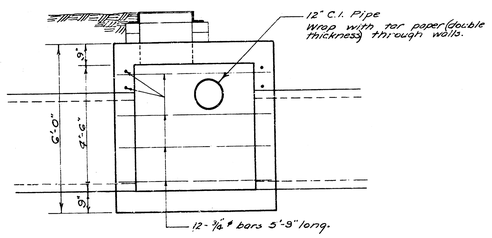
Scale ½"=1'-0"



PLAN VIEW

REINF. CONC. MANHOLE Sta. 6+26.2 Line 1A

Scale ½"=1'-0"



ELEVATION

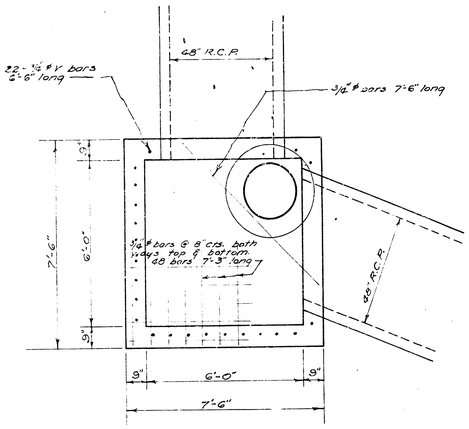
STORM WATER SEWER DIST. NO. 51

CITY OF WICHITA KANSAS

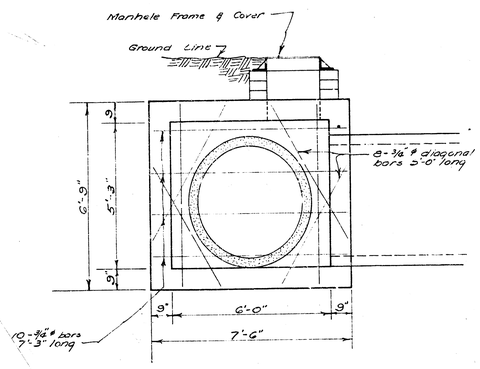
L.K. WHITE CITY ENGINEER

Proj. No. C 22-86

Date: Oct. 1952



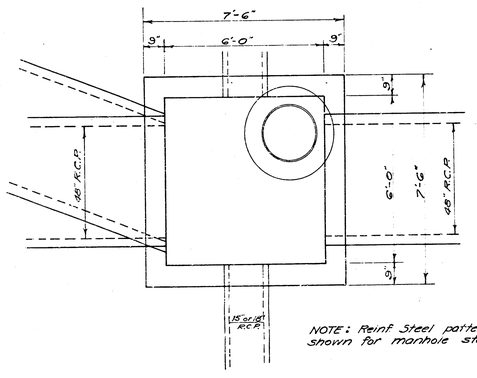
PLAN VIEW



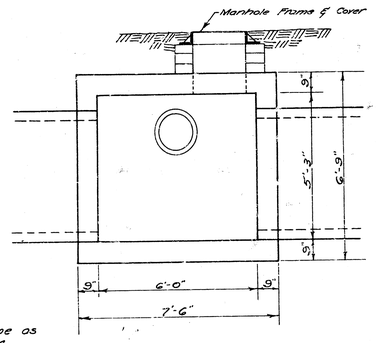
ELEVATION

REINF. CONC. MANHOLE Sta. 12+91.2

SCALE ½" = 1'-0"



NOTE: Reinf Steel pattern same as shown for manhole sta. 12+88.4

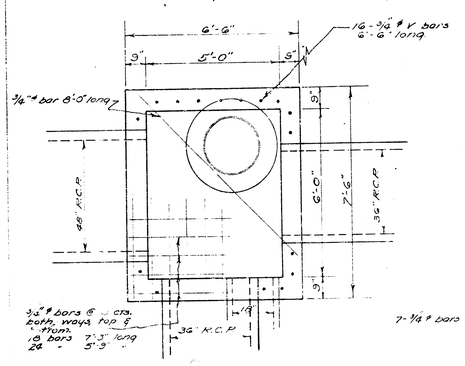


PLAN VIEW ELEVATION

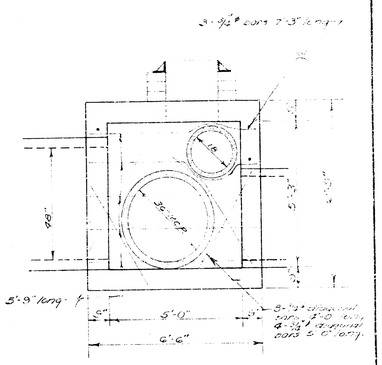
REINF. CONC. MANHOLE

SCALE ½" = 1'-0"

Sta. 13+48
Sta. 16+61.4
Sta. 21+97.4
Sta. 25+36.5
Sta. 30+51.3



PLAN VIEW



ELEVATION

REINF. CONC. MANHOLE Sta. 33+65.1 Line 1
Sta. 0+00 Line 1A

SCALE ½" = 1'-0"

Concrete for manholes shall contain not less than 1.65 bbls. of cement per cu yd. of concrete. In no event shall the total water content exceed 6.25 gals. per sack of cement. The mixture of fine and course aggregate shall be such as will produce a maximum density of a most workable mixture.

IN GENERAL - Pipes will enter and leave the manholes at various angles and elevations. Where possible bend reinf. bars around pipes (18" diam. or less). Where pipes are large use ¾" ϕ diagonal bars as shown.

The floor of the manhole is to be shaped for flow and drainage with concrete. No deduction in concrete quantities shall be made for pipe openings. No addition in concrete quantities shall be made for shaping manhole floor.

An internal viberator shall be used for placing concrete.

STORM WATER SEWER DIST NO. 51
CITY OF WICHITA KANSAS
J. C. WHITE CITY ENGINEER
Proj. No. C.22-86
Date: Oct. 1952

SHEET NO. 11 of 11