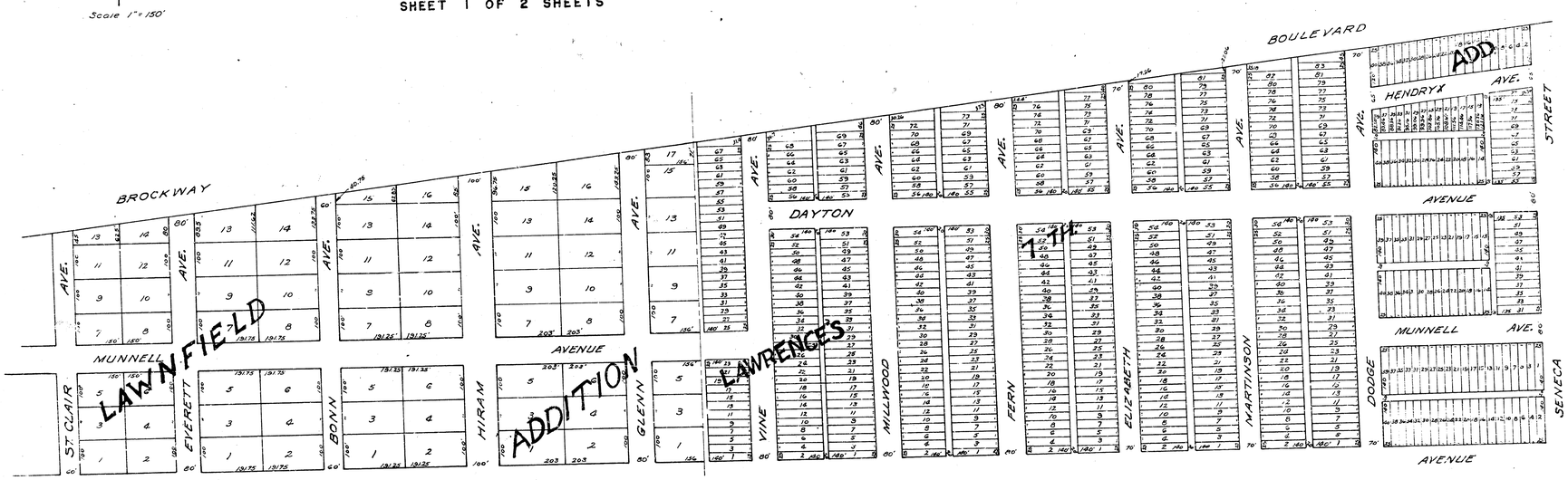
BENEFIT DISTRICT
STORM WATER SEWER DISTRICT
NO. 43
CITY OF WICHITA KANSAS

SHEET 1 OF 2 SHEETS

N

Scale 1" = 150'



BENEFIT DISTRICT
STORM WATER SEWER DISTRICT
NO. 43
CITY OF WICHITA KANSAS

SHEET 2 OF 2 SHEETS

Scale 1"=150'

N

MC CORMICK

IRVING

STILLWELL

WALKER

DOOLEY

ST. CLAIR

EVERETT

BONN

HIRAM

GLENN

VINE

MILLWOOD

FERN

AVENUE

STREET

FIGG

MERTON

ESTHNER

ELIZABETH

MARTINSON

DODGE

SENECA

ORIENT

WHEELER

PRINCESS

GARFIELD ADDITION

GARFIELD 2ND ADD

STITES & SMITH'S ADD

SHEARMAN'S ADD

REPLAT OF PART OF JOHN MC CORMICK'S ADD

MARY MC CORMICK'S ADDITION

EAST UNIVERSITY ADDITION

WHEELER'S ADDITION

LOCATION MAP OF STORM WATER SEWER

DISTRICT NO. 43

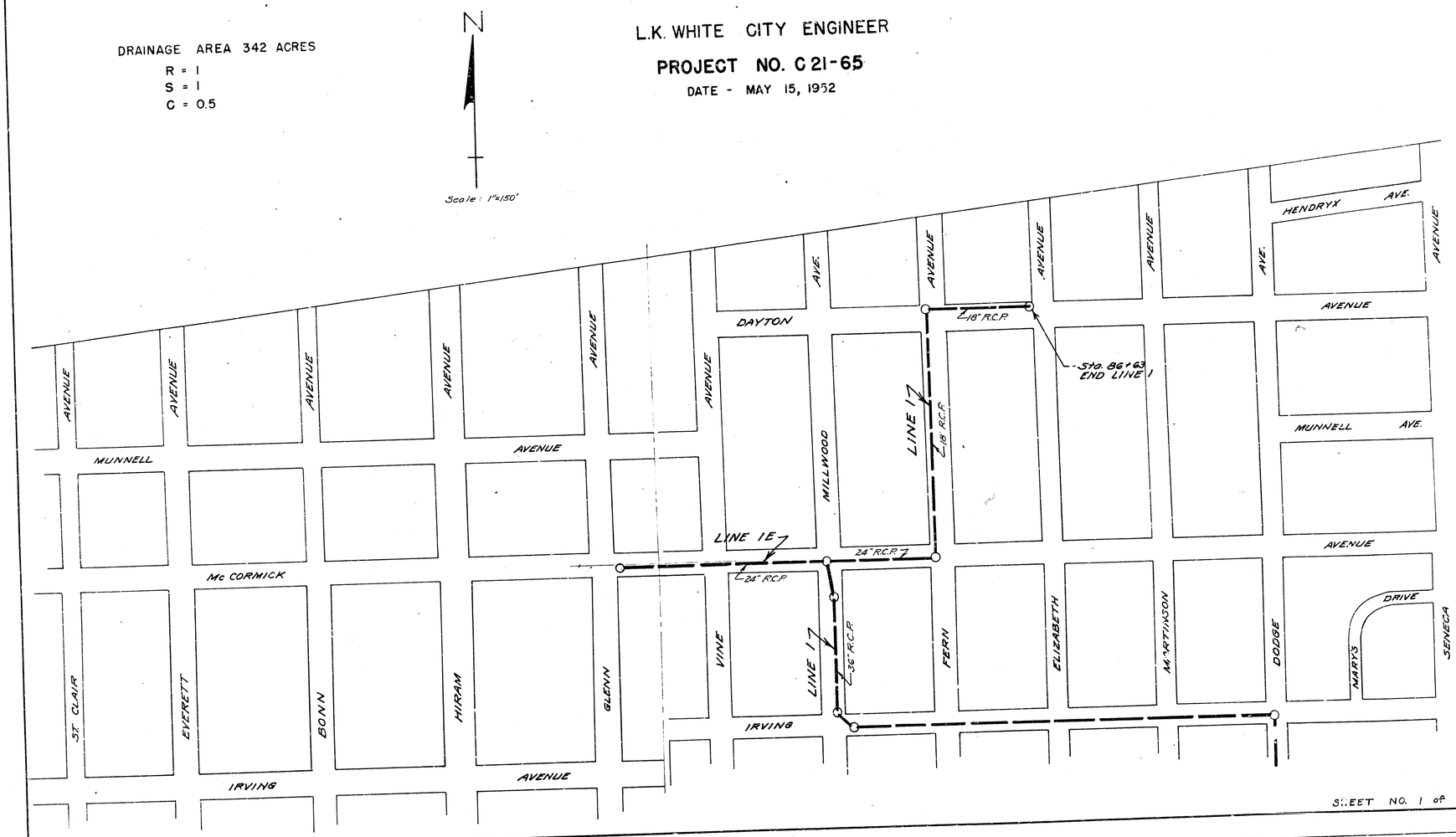
CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

PROJECT NO. C 21-65

DATE - MAY 15, 1952

DRAINAGE AREA 342 ACRES
R = 1
S = 1
C = 0.5

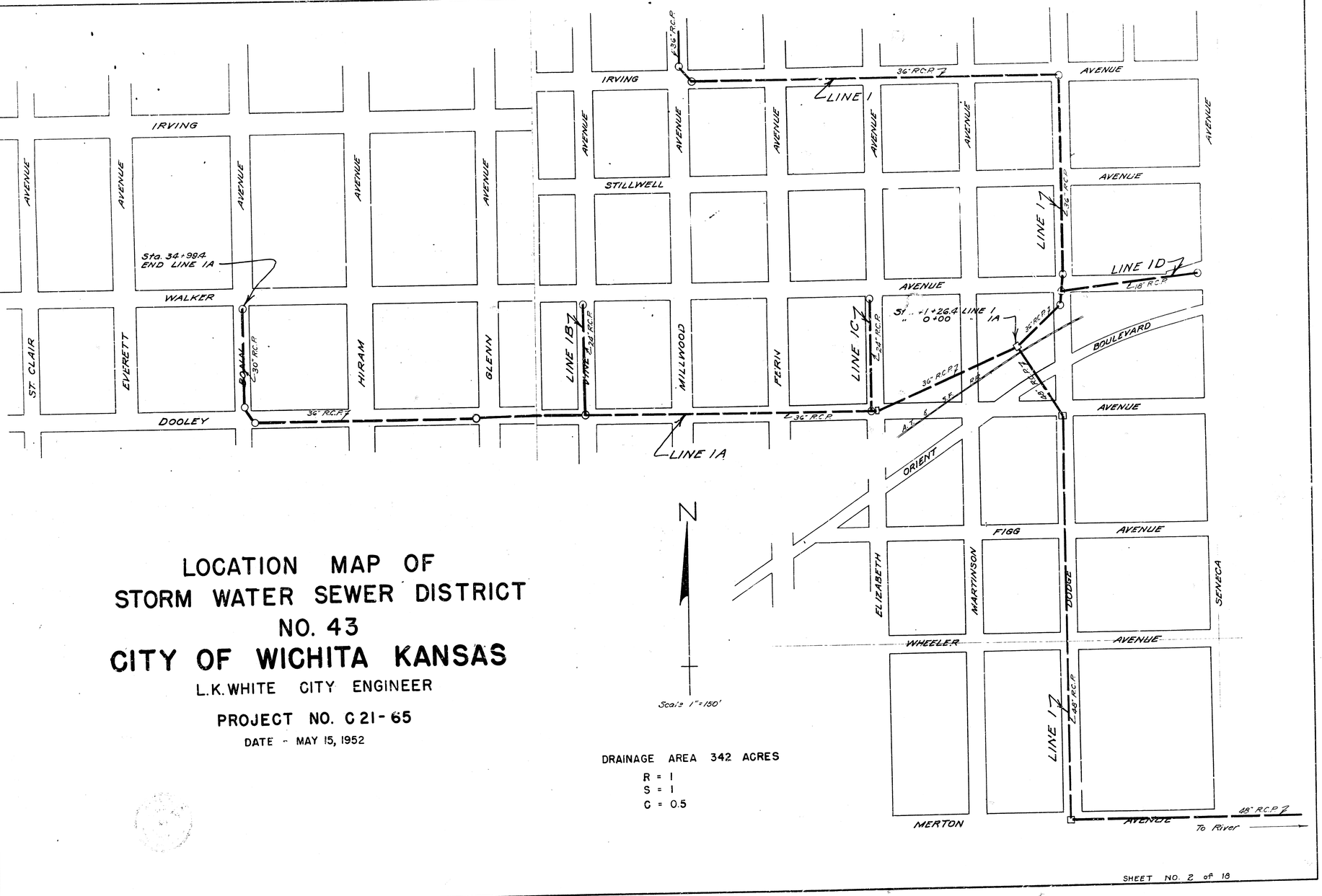


LOCATION MAP OF STORM WATER SEWER DISTRICT NO. 43 CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

PROJECT NO. C 21-65

DATE - MAY 15, 1952



DRAINAGE AREA 342 ACRES

R = 1
S = 1
C = 0.5

Scale 1"=40'

N

FARM

PRISON

FIELD

WHEAT

CITY

ARKANSAS RIVER

LINE 17

Small Shrubs

12" Elm C.L.

1" Cluster Tree C/L

3"Elm C.L.

Drive

Graveled Drive

6" Poplar 7" Mtr. Elm Wood post in conc. Mass at Property Line

Clothes Line 12' Ht.

92.5'

House

Construct Reinforced Concrete Outfall Structure (See Sh.#18 for details)

Construct Manhole

Clothes Lines

Graveled Drive

Sta. 6+61 Construct Siphon on 24" sanitary sewer, under storm water sewer. (See Sh.#16 for details)

EXISTING MANHOLE 12'4" DN. E.L. 93.3 INV. SANITARY SEWER S. Elev. El. 91.14

6+58 P.

6+55 P.

TUNNEL UNDER RAIL ROAD TRACKS. (2 Tunnels 20' long) see detail below.

R.R.

M.V.

BUILDING

UNITED SASH DOOR COMPANY

Pipe 10.5' Lt.

Sta. 9+42.8 Construct Reinf. Conc. Manhole See Sh.#16 for details.

CITY SERVICE GAS COMPANY

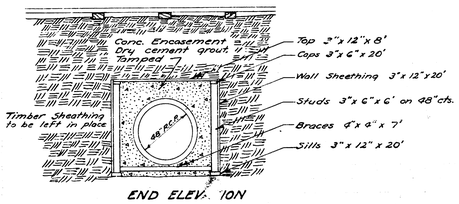
Sta. 11+18 Prop. Iron 13' Lt.

WESTHOLT MANUFACTURING COMPANY

WALNUT (Vacated)

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

B.M. Top Flag pole base, Davis Mfg. Company N.W. Cor. McLean Blvd. & Wheeler Ave. El. 105.35



END ELEVATION

TUNNEL DETAIL
Scale ½"=1'-0"

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

CALCULATED HIGH WATER El. 101.4 BY - U.S. ARMY ENGINEERS

Date 5-15-32
Drawn by J.L.A.
Checked by
Note Book No. S-11

Top Abut El. 103.3
Top Abut El. 103.16
Top Abut El. 104.89
Top Abut El. 104.58
9+42.8
10' 10' 10' 10'

100
90

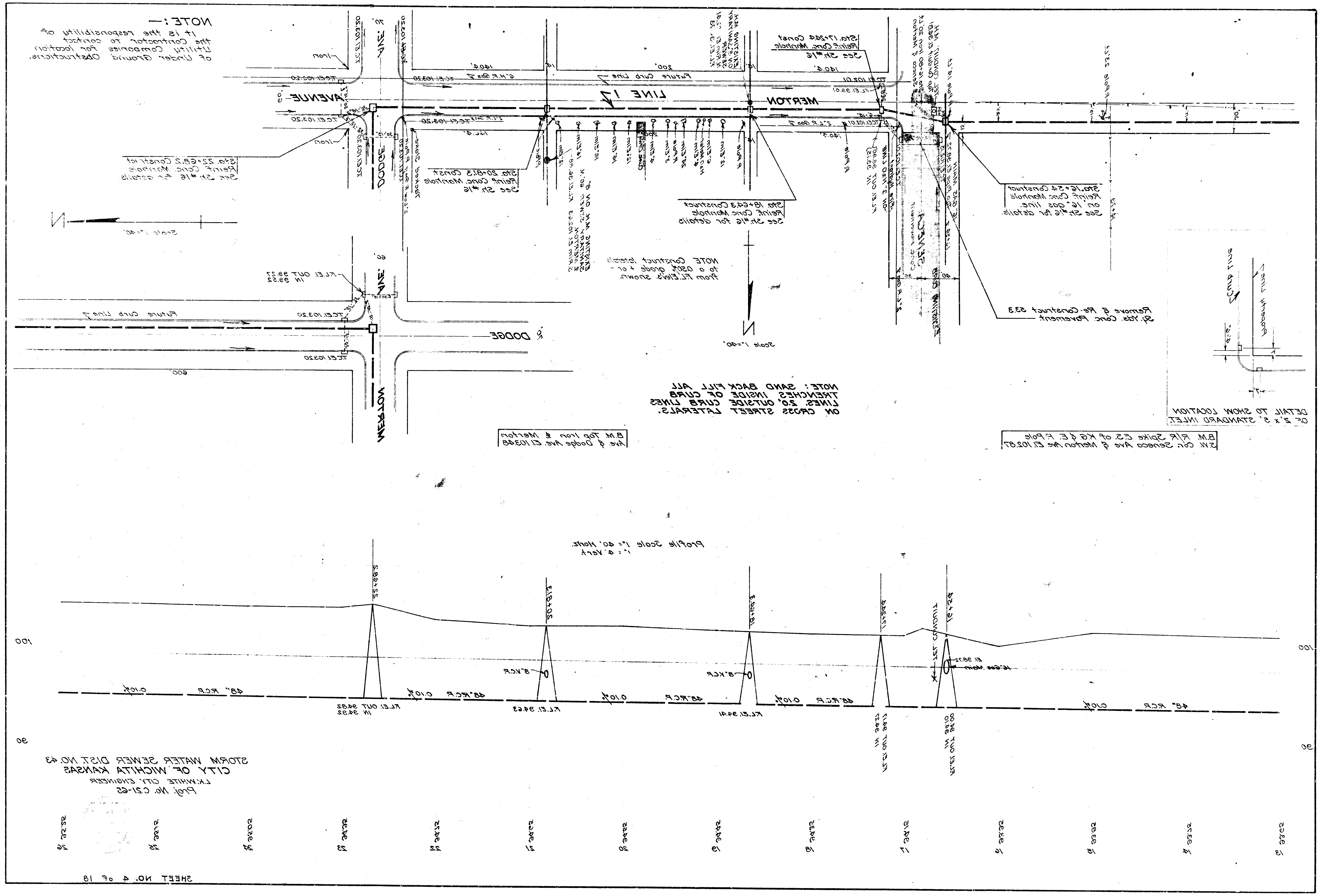
48" R.C.P. 0.10% 24" R.C.P. 48" R.C.P. 0.10%

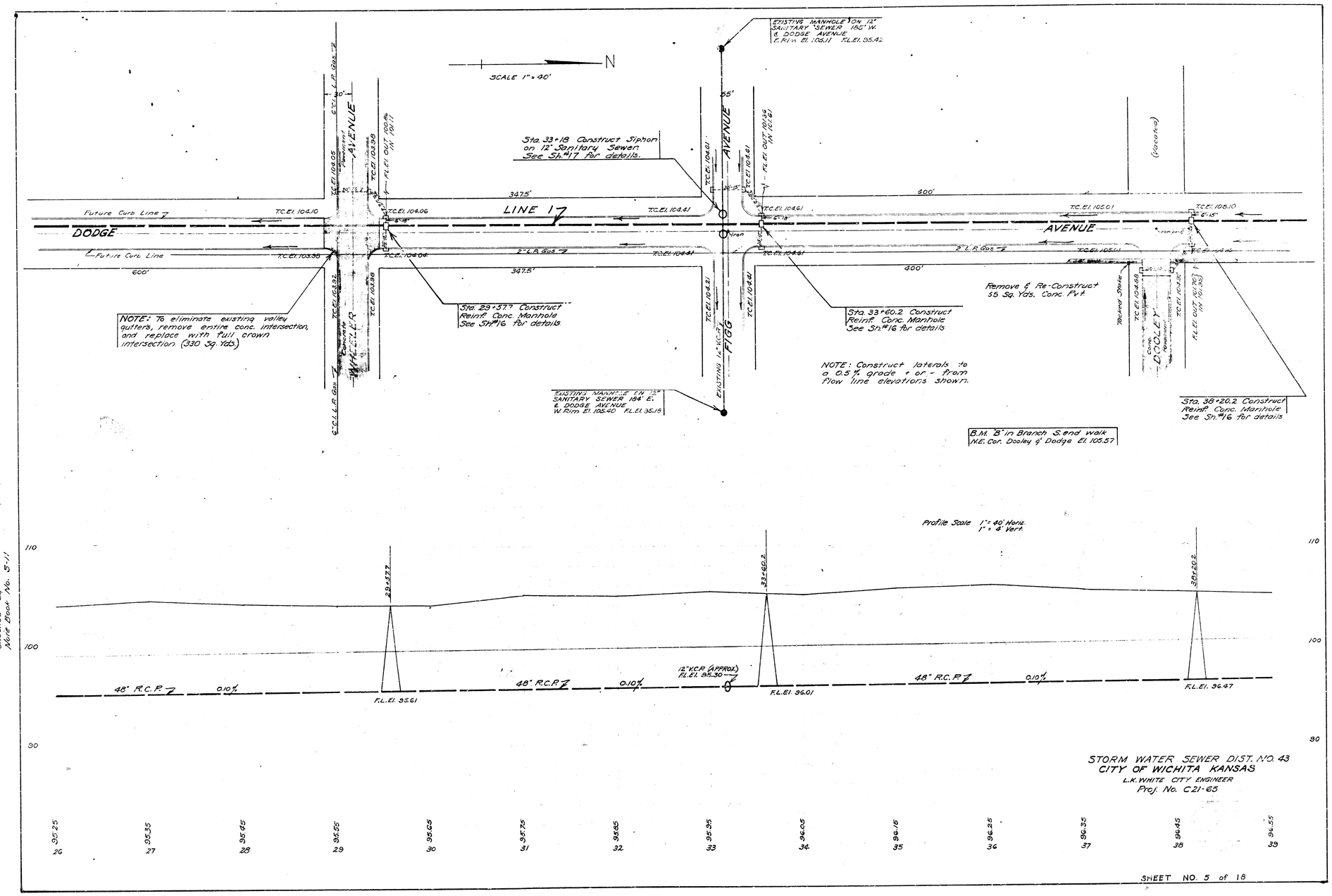
F.L. El. 91.26
F.L. El. OUT 93.19 IN 93.29

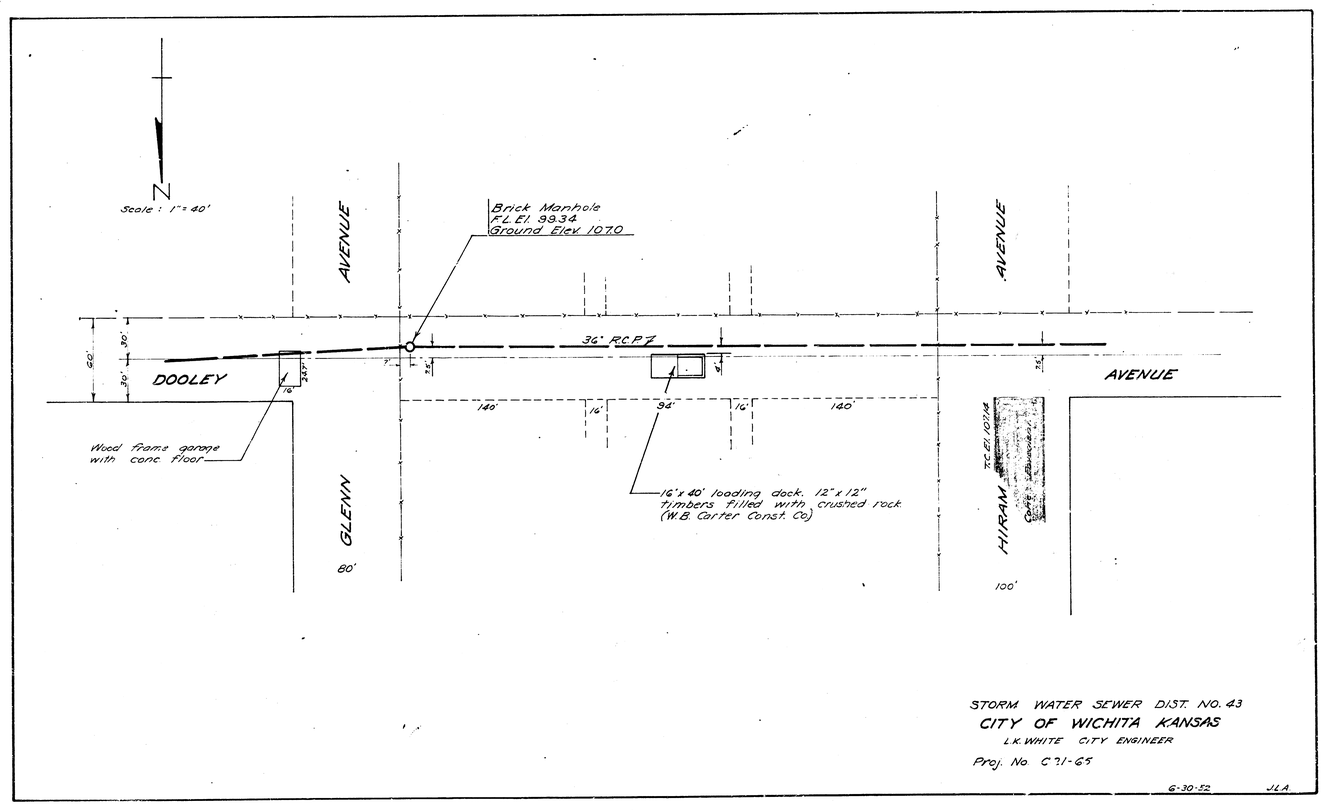
WATER El. 90.48
F.L. El. 88.50

92.25	92.35	92.45	92.55	92.65	92.75	92.85	92.95	93.05	93.15	93.25	93.45	93.55	93.65
0+00	1	2	3	4	5	6	7	8	9	10	11	12	13

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C21-65


NOTE:—
It is the responsibility of the Contractor to contact Utility Companies for location of Under Ground Obstructions.
Sta. 22+68.2 Construct Reinf. Conc. Manhole See Sh. #16 for details
Sta. 20+81.3 Const. Reinf. Conc. Manhole See Sh. #16
Sta. 18+64.3 Construct Reinf. Conc. Manhole See Sh. #16 for details
Sta. 17+24.4 Const. Reinf. Conc. Manhole See Sh. #16
Sta. 16+54 Construct Reinf. Conc. Manhole on 16" gas line. See Sh. #16 for details.
Remove & Re-Construct 53.3 Sq. Yds. Conc. Pavement
AVENUE
DODGE
MERTON
LINE 17
SENECA
Future Curb Line
NOTE Construct laterals to a 0.50% grade + or - from F.L. Elev's. shown.
NOTE: SAND BACK FILL ALL TRENCHES INSIDE OF CURB LINES. 2.0' OUTSIDE CURB LINES ON CROSS STREET LATERALS.
B.M. Top Iron & Merton Ave. & Dodge Ave. El. 103.48
B.M. R/R Spike E.S. of K.G. & E. F. Pole S.W. Cor. Seneca Ave & Merton Ave. El. 102.87
DETAIL TO SHOW LOCATION OF 2' x 5' STANDARD INLET.
Scale 1"=40'
Profile Scale 1"= 40' Horiz. 1" = 4' Vert.
48" R.C.P. 0.10%
F.L. El. OUT 94.82 IN 94.32
F.L. El. 94.63
F.L. El. 94.41
El. 98.72 16" Gas Main
Tel. Conduit
STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C21-65
SHEET NO. 4 of 18
Note Book No. 11-S
Checked by
Drawn by J.L.A.
Date 2-15-52


EXISTING MANHOLE ON 12" SANITARY SEWER 185' W. & DODGE AVENUE
E. Rim El. 105.11 FL.El. 95.42
SCALE 1" = 40'
N
Sta. 33+18 Construct Siphon on 12" Sanitary Sewer. See Sh.#17 for details.
Future Curb Line
DODGE
AVENUE
LINE 17
347.5'
400'
600'
Sta. 29+57.7 Construct Reinf. Conc. Manhole See Sh.#16 for details.
Sta. 33+60.2 Construct Reinf. Conc. Manhole See Sh.#16 for details
Remove & Re-Construct 55 Sq. Yds. Conc. Pvt.
NOTE: To eliminate existing valley gutters, remove entire conc. intersection, and replace with full crown intersection. (330 Sq. Yds.)
NOTE: Construct laterals to a 0.5 % grade + or - from flow line elevations shown.
EXISTING MANHOLE ON 12" SANITARY SEWER 194 E. & DODGE AVENUE W. Rim El. 105.40 FL.El. 35.18
B.M. "B" in Branch S. end walk N.E. Cor. Dooley & Dodge El. 105.57
Sta. 38+20.2 Construct Reinf. Conc. Manhole See Sh.#16 for details
(Vacated)
Profile Scale 1" = 40' Horiz. 1" = 4' Vert.
48" R.C.P.
0.10%
12" K.C.P. (APPROX.) FL.El. 95.30
F.L.El. 95.61
F.L.El. 96.01
F.L.El. 96.47
STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C21-65
Date 5-16-52
Drawn by J.L.A.
Checked by
Note Book No. 5-11



STORM WATER SEWER DIST. NO. 43

CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

Proj. No. C-71-65

6-30-52 JLA

WALKER AVENUE

302'

300'

N

Scale: 1" = 40'

AVENUE

AVENUE

6'x10' Reinforced Concrete Manhole.
Flow Line Elevation 96.87
Ground Elevation 108.8

202'0"
36" R.C.P.

105°30'

63°30'

48" R.C.P.
213.5'

BOULEVARD

El. Top of N. Rail 106.99
El. Top of S. Rail 106.90

635.5'

36" R.C.P.

RR.

A. T. & S.F.

ORIENT

Existing Brick Manhole
S. Rim El. 105.88
F.L. El. 99.43

Existing Brick Manhole
(Abandoned) S. Rim El. 106.54
F.L. El. 99.32

24" R.C.P.

EXISTING 30" W.C.P. SANITARY SEWER

200'

225'

120'

30" R.C.P.

To BONN AVE.

Iron

DOTTED LINES INDICATE
VACATED STREETS

House

Iron

DOOLEY

60'

5'x 8' Reinforced Concrete Manhole
Flow Line Elevation 97.60
Ground Elevation 106.2

ELIZABETH

MARTINSON

DODGE

70'

70'

70'

STORM WATER SEWER DIST. NO. 43

CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

Proj. No. C 21-65

4/9/52

Rev. 6-28-52 J.L.A.

N

Scale 1"=40'

ORIENT BOULEVARD

R. R.

Sta. 0+50 Const. Manhole

S.F.

A.T. &

Sta. 5+44 Const. Manhole END LINE 1D

Sta. 0+00 LINE 1D
Sta. 43+76.2 LINE 1
Const. Manhole

DODGE AVENUE

70'

T.C. El. 105.30

T.C. El. 105.00

35'

140'

18'

200'

14'

140'

SENECA

Concrete Pavement

℄ Future Curb Line

WALKER

℄ LINE 1D

R.R. 105.00

T.C. El. 105.00

℄ Future Curb Line

AVENUE

F.L. El. 102.00

℄ Future Curb Line

T.C. El. 105.00

Iron

T.C. El. 104.80

20'-15"

0.1%

200'

10'

140'

10'

B.M. "S" in Branch S. end walk N. N.E. cor. Dodge & Dooley El. 105.57

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

LINE 1D

110

100

90

5.44

0+50

0+00

18" R.C.P.

0.10%

F.L. El. 99.34

F.L. El. 98.85

F.L. El. OUT 97.33 IN 98.80

N

Scale 1"=40'

See Sh. # 12

LINE 1A

A.T. & SWITCH

Tunnel under K.C.K.&T. R.R. Crossing

105.50

Sta. 41+62.9 LINE 1
Sta. 0+00 LINE 1A
Const. Reinf. Conc. M.H.
See Sh. #17 for details

LINE 1

45° R.C.P.

S.F. & SWITCHING R.R.

(Vacated)

T.C. El. 105.10

DODGE AVENUE

Future Curb Line

T.C. El. 104.95

Sta. 43+26.2 Const. Manhole.

Tucked Stone

T.C. El. 104.80

T.C. El. 104.55

DOOLEY Avenue

BLVD.

Sta. 43+76.2 Const. Manhole LINE 1
Sta. 0+00 LINE 1D

Sta. 38+20.2 Construct Reinf. Conc. Manhole. See Sh. #16 for details.

Sta. 39+12.9 Construct Reinf. Conc. Manhole. See Sh. #17 for details.

LINE 1D

WALKER

LINE 1

39+12.9

Rep. S. Rein. El. 104.47

Rep. N. Rein. El. 105.33

41+28.62

43+26.2

43+76.2

110

100

90

18" 18"

45° R.C.P.

0.10%

36" R.C.P.

0.10%

F.L. El. OUT 96.56 IN 96.66

F.L. El. OUT 96.88 IN 96.98

F.L. El. OUT 97.18 IN 97.28

F.L. El. OUT 97.33 IN 97.43

Date: 5-15-52
Drawn by J.L.A.
Checked by
Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C-21-65

96.55	96.75	96.85	97.05	97.15	97.45
39	40	41	42	43	44

NOTE - CONSTRUCT STANDARD BRICK MANHOLE UNLESS OTHERWISE NOTED.

Sta. 43+76.2 (S. Rt. Walker Ave) Construct Manhole.

SCALE 1"=40'

Sta 44+43.2 Const. Manhole

Conc. Pvt. Cut. Remove & Re-Construct 40 Sq. Yds. Conc. Pavement

EXISTING MANHOLE on 18" San. Sewer 11.4' Lt. E. Rim El. 106.15 F.L.El. 96.38

Sta. 48+38.8 Const Manhole

Sta. 51+56.8 Const. Manhole

Conc. Pvt. Cut. Remove & Re-Construct 55 Sq. Yds. Conc. Pvt.

Sta. 51+95.7 Const. Manhole.

Sta. 54+25.7 Const. Manhole

WALKER AVENUE

STILLWELL AVENUE

DODGE AVENUE

IRVING AVENUE

MARINTSON AVENUE

Remove & Salvage 29'x 36" C.I.P. Pipe.

NOTE: Sand backfill trench under drive ways. Re-Construct 3 Conc. drive ways. (21 Sq. Yds.)

EXISTING MANHOLE on 15" San. Sewer 200' Rt. W. Rim El. 106.76 F.L.El. 96.02

NOTE: Construct laterals to a 0.50% grade + or - from flow line elevs. shown.

B.M. "G" in Globe, end of curb return, S.W. Cor. Irving & Dodge Avenue El. 107.41

Profile Scale 1"=40' Horiz. 1"=4' Vert.

36" R.C.P. — 0.10% — CONST. CONC. CRADLE — 15" SAN. SEWER

F.L.El. OUT 97.33 IN 97.43

F.L.El. OUT 97.49 IN 97.59

F.L.El. 97.99

F.L.El. OUT 98.31 IN 98.36

F.L.El. OUT 98.90 IN 98.95

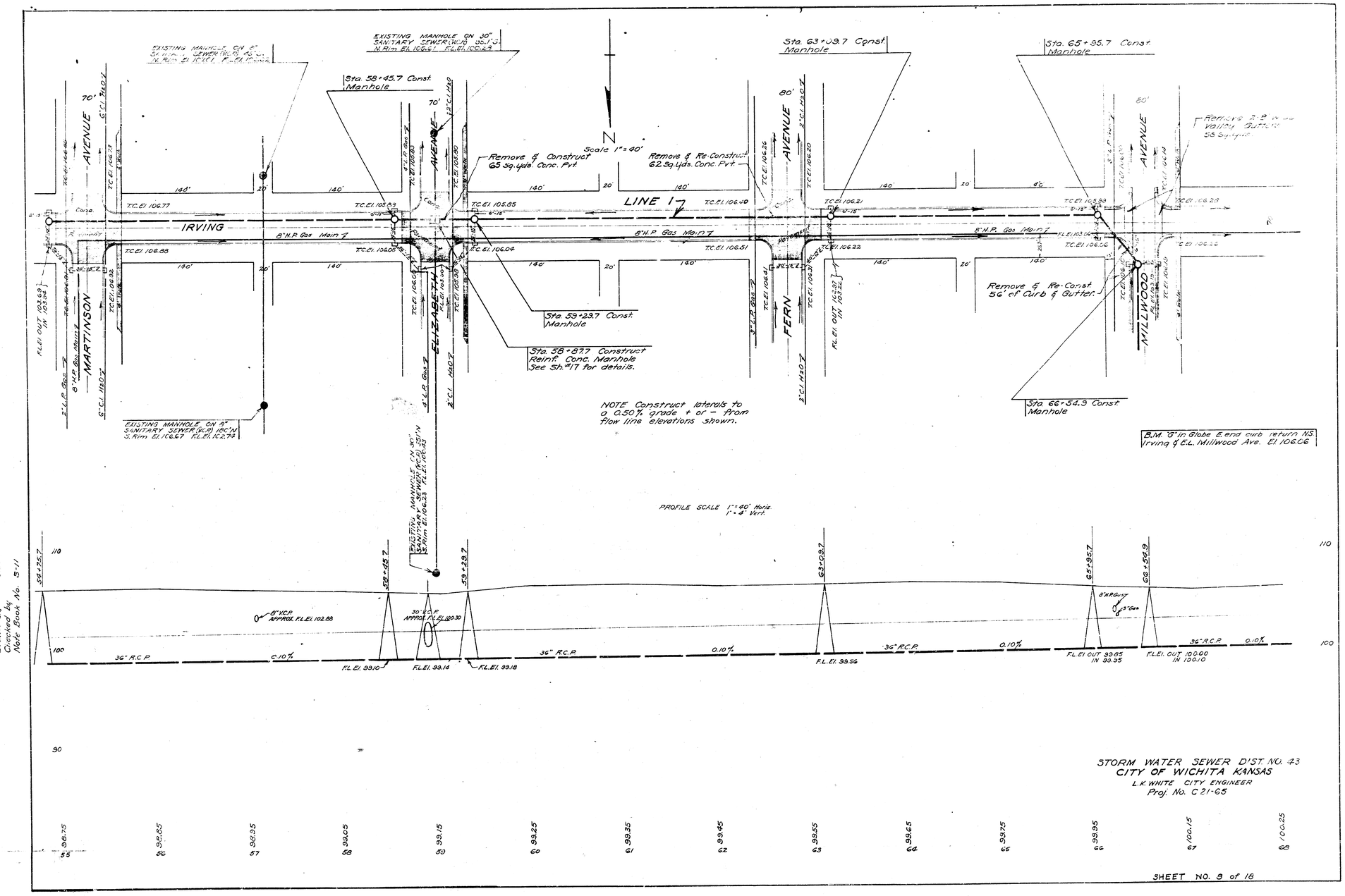
F.L.El. 99.73 IN

Date
Drawn by
Checked by
Note Book No. 5-11

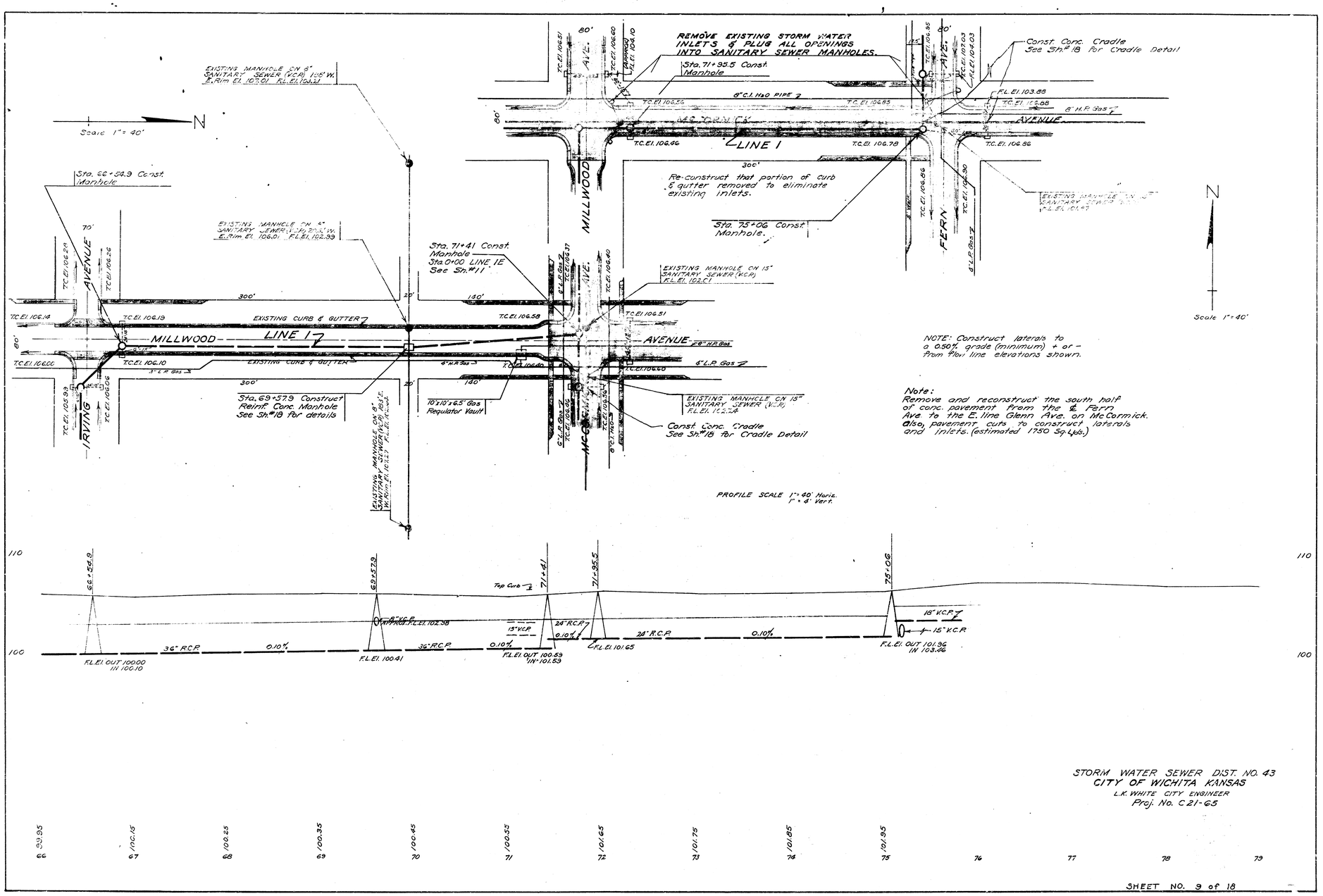
5-15-52
J.L.A.

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65

SHEET NO. 7 of 18



SHEET NO. 9 of 18



STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65

NOTE: All pavement, drives, curb & gutter and sidewalk removed or damaged by contractor shall be reconstructed.
Sand back fill all trenches under pavement and conc. drives.
126 Sq.yds (conc. drives, alley & pavement cuts.)

Re-construct sidewalks if removed or damaged.

SCALE 1" = 40'

N

Sta. 75+60.5 Const. Manhole

Sta. 83+51.5 Const. Manhole

Sta. 83+08.6 Const. Manhole

Sta. 86+03 Const. Manhole
END LINE 1

REMOVE EXISTING STORM WATER INLETS & OUTLETS. PLUG ALL OPENINGS

NOTE: Construct laterals to maximum possible grade.

ABANDON SIPHONS

OLD STREET CAR TRACKS

Const. Concrete Cradle. See Sht #18 for Cradle Detail

EXISTING MANHOLE ON 24" Cor. Conn. T.S. N. Rim El. 106.36 F.L.El. 102.36

EXISTING MH. ON 8" San. S. 26° N. S. Rim El. 106.21 F.L.El. 101.61

DAYTON AVENUE — Concrete Pavement

FERN AVENUE — Concrete Pavement

ELIZABETH AVE.

MACON WAY

680'

140'

40'

80'

70'

B.M. "T" in Troy, Fire Hydrant N.W. Cor. Dayton & Fern Ave. El. 110.32

B.M. Thimble ℄ of Dayton & Elizabeth Ave. El 107.92

Date 5-15-52
Drawn by J.L.A.
Checked by
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PROFILE SCALE 1" = 40' Horiz.
1" = 4' Vert.

75+106 — 75+60.5 — 83+08.6 — 83+51.5 — 86+03

18" R.C.P. — 0.10% — 18" R.C.P. — 0.10% — 18" R.C.P. — 0.10%

F.L.El. 103.51 — Const. Conc. Cradle — 15" V.C.P. APPROX. F.L.El. 101.88

F.L.El. OUT 104.26 IN 104.36 — F.L.El. 104.90

APPROX F.L.El. 102.44 6" V.C.P. — Const. Conc. Cradle

F.L.El. 104.71

110

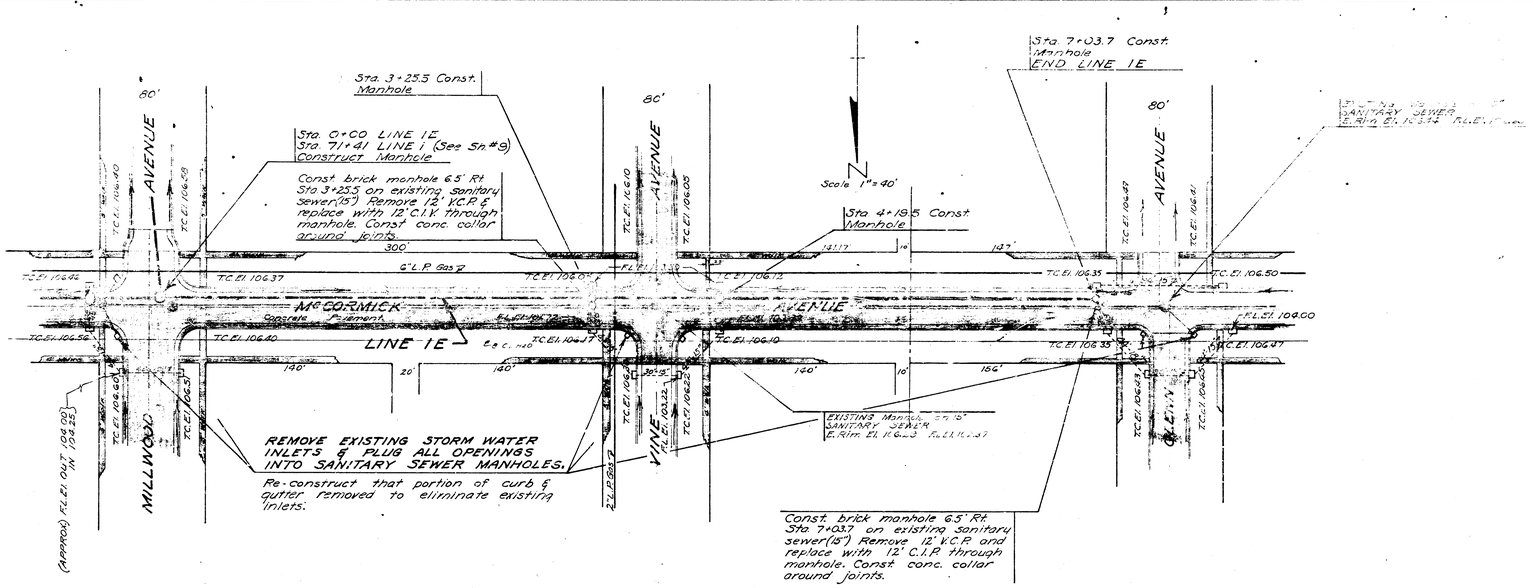
100

101.95 — 103.35 — 103.45 — 103.75 — 103.85 — 103.95 — 104.05 — 104.15 — 104.25 — 104.45 — 104.55 — 104.65

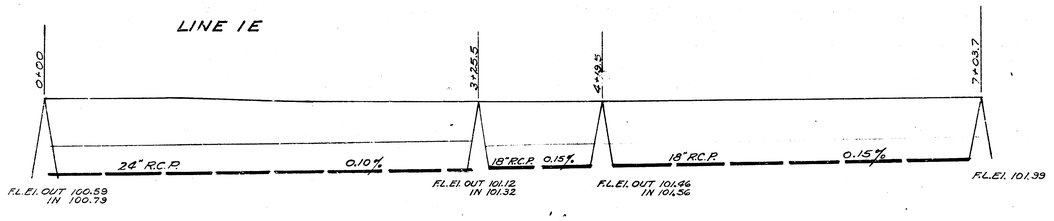
75 — 76 — 77 — 78 — 79 — 80 — 81 — 82 — 83 — 84 — 85 — 86

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65

SHEET NO. 10 of 18



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



Date 5-15-52
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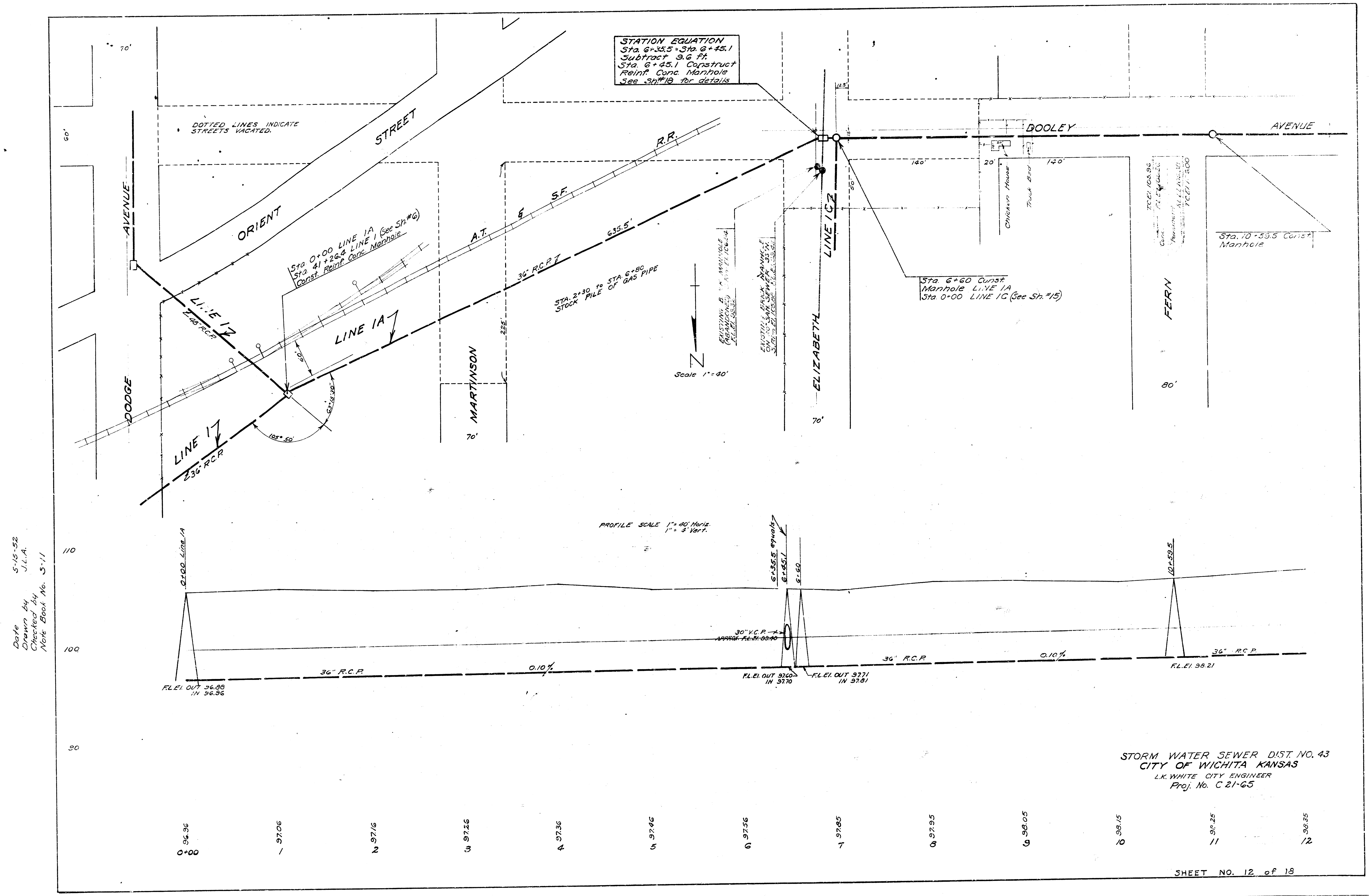
Note Book No 3-11

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65



STATION EQUATION
Sta. 6+35.5 = Sta. 6+45.1
Subtract 9.6 ft.
Sta. 6+45.1 Construct
Reinf. Conc. Manhole
See Sh#18 for details
DOTTED LINES INDICATE STREETS VACATED.
ORIENT STREET
DODGE AVENUE
A.T. & S.F. R.R.
DOOLEY AVENUE
MARTINSON
ELIZABETH
FERN
LINE 1A
LINE 1C
LINE 17
36" R.C.P.
635.5'
Sta. 0+00 LINE 1A
Sta. 41+26.2 LINE 1 (See Sh.#6)
Const. Reinf. Conc. Manhole
STA. 2+30 to STA. 6+80
STOCK PILE OF GAS PIPE
Sta. 6+60 Const. Manhole LINE 1A
Sta. 0+00 LINE 1C (See Sh.#15)
Sta. 10+59.5 Const. Manhole
Chicken House
Truck Bed
Scale 1" = 40'
105° 50'
PROFILE SCALE 1" = 40' Horiz.
1" = 5' Vert.
0+00 Line 1A
6+35.5 equals
6+45.1
6+60
10+59.5
30" V.C.P.
36" R.C.P.
0.10%
F.L. El. OUT 96.86
IN 96.96
F.L. El. OUT 97.60
IN 97.70
F.L. El. OUT 97.71
IN 97.81
F.L. El. 98.21
110
100
90
96.96 0+00
97.06 1
97.16 2
97.26 3
97.36 4
97.46 5
97.56 6
97.85 7
97.95 8
98.05 9
98.15 10
98.25 11
98.35 12
Date 5-15-52
Drawn by J.L.A.
Checked by
Note Book No. 3-11
STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65
SHEET NO. 12 of 18

DOOLEY LINE 1A

ST. FRANCIS AVENUE

GRAHAM AVENUE

WESTWOOD AVENUE

Sta. 14 + 33.5 Center Manhole

Sta. 17+73.5 Center Manhole LINE 1A
Sta 0+00 LINE 1B
(See Sh #19)

Sta 21+ 90 Center Manhole

SCALE 1" = 40'

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

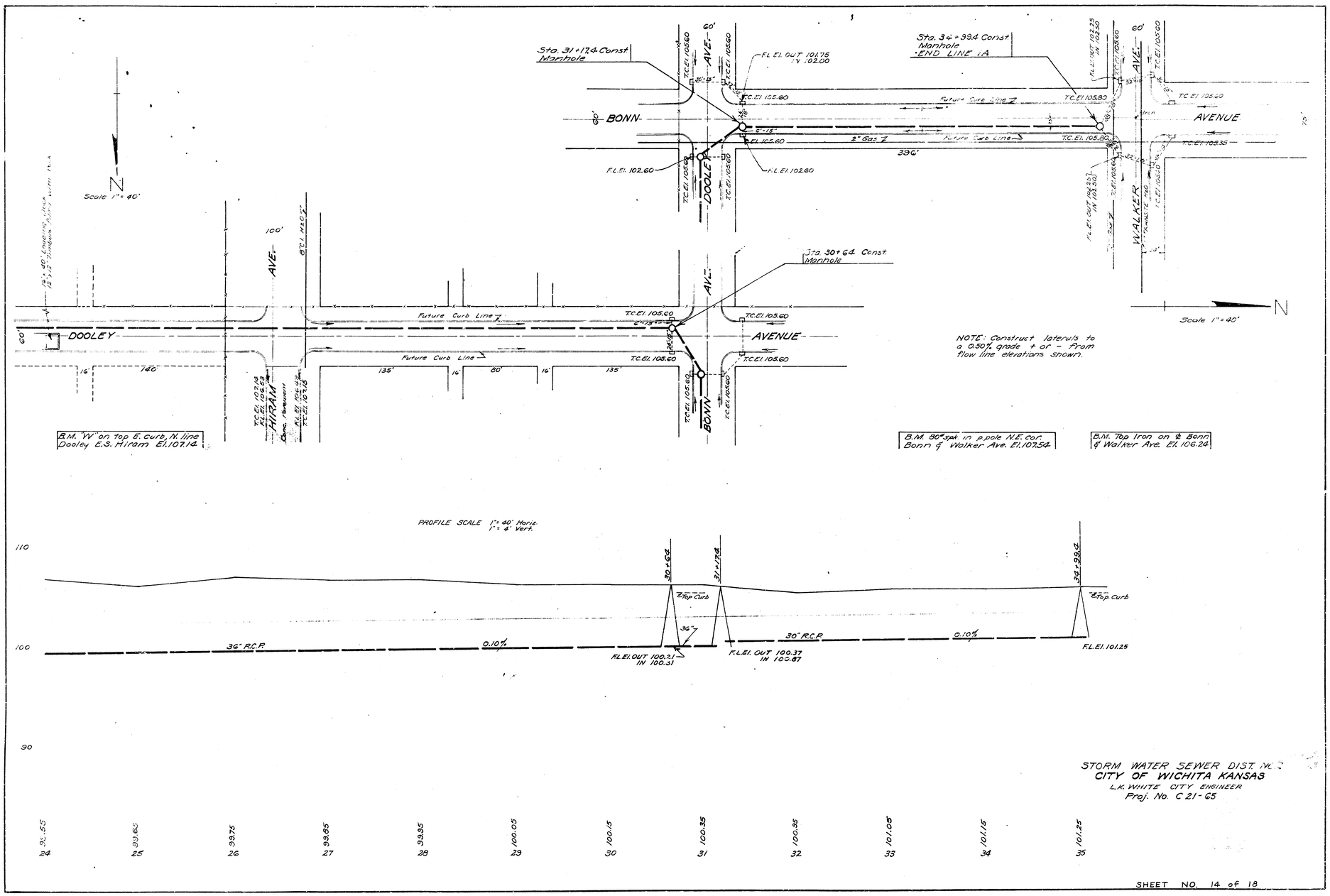
STA	14+33.5	15	16	17	18	19	20	21	22	23	24	25	26
ELEV.	3832.35	3832.45	3832.55	3832.65	3832.75	3832.85	3832.95	3833.05	3833.15	3833.25	3833.35	3833.45	3833.54

Proj. No. C21-65
E.K. WHITE CITY ENGINEER

STORM WATER SEWER DIST NO. 43
CITY OF WICHITA KANSAS

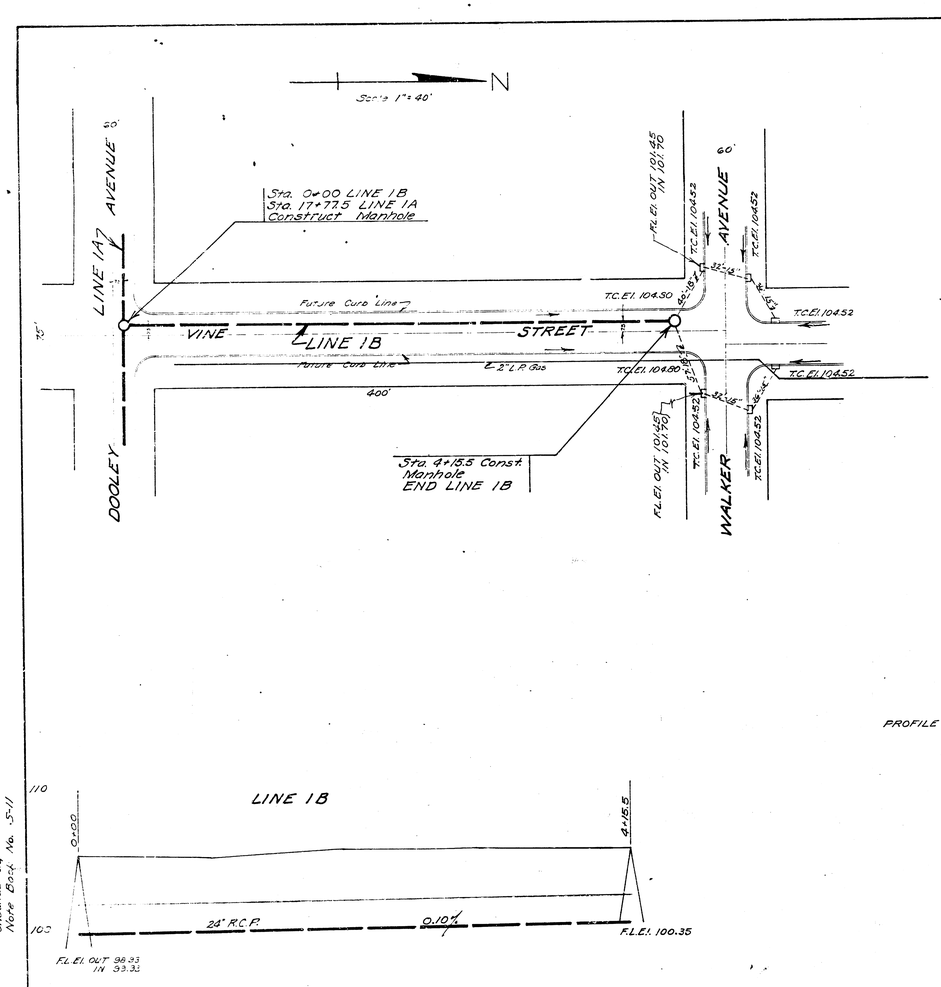
Vols Book No 2-11
Checked By
Drawn By
Date 5-12-65

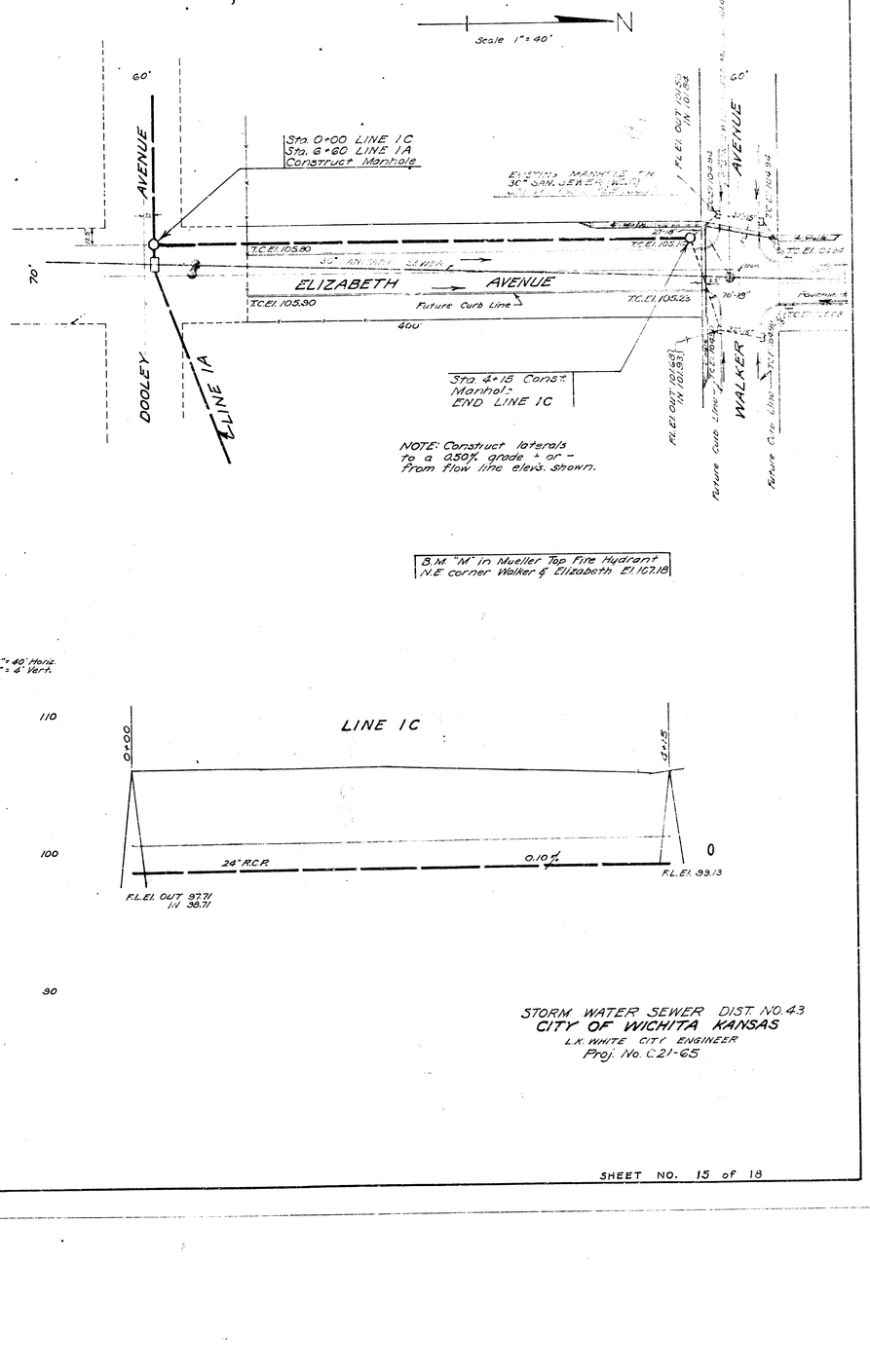
SHEET NO. 13 OF 18



Date 5-15-52
Drawn by J.L.A.
Checked by
Note Book No. S-11

STORM WATER SEWER DIST. IV
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65



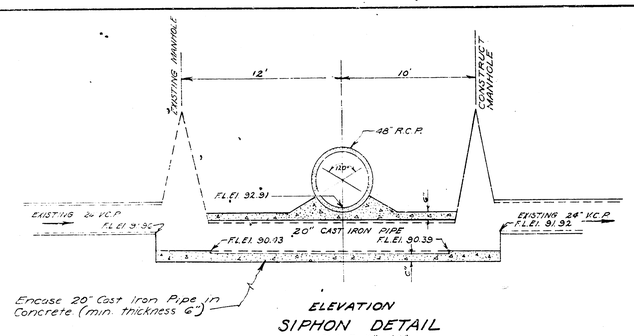


B.M. "M" in Mueller Top Fire Hydrant
N.E. corner Walker & Elizabeth El. 107.18

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

5-12-52
J.L.A.
Drawn by
Checked by
Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C.21-65

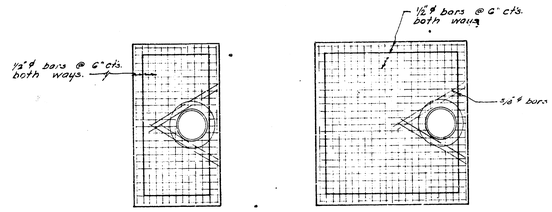


ELEVATION

SIPHON DETAIL

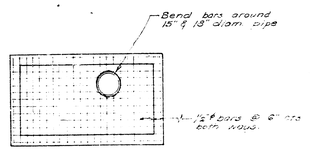
SCALE 1/4"=1'0"

Sta. 6+61 Line 1



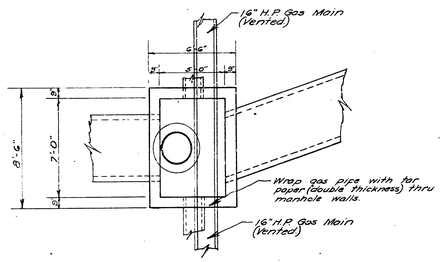
TYPICAL SECTIONS TOP & BOTTOM

STEEL PATTERN

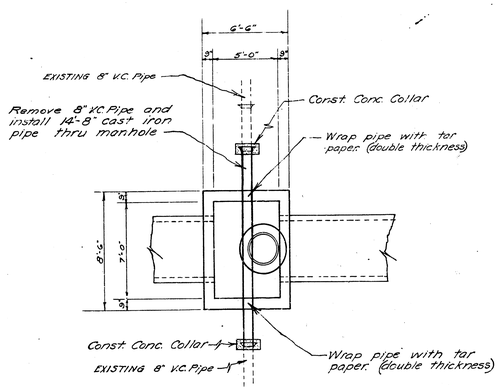


TYPICAL WALL SECTION

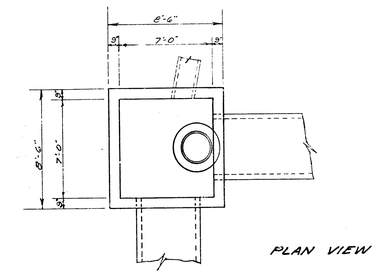
STEEL PATTERN



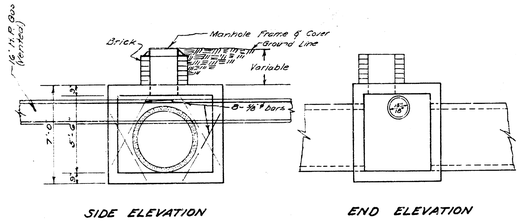
PLAN VIEW



PLAN VIEW



PLAN VIEW



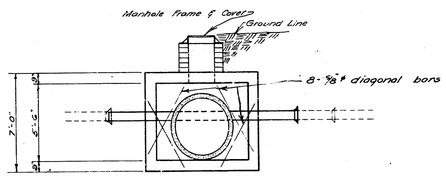
SIDE ELEVATION

END ELEVATION

REINF. CONC. MANHOLE

SCALE 1/8"=1'-0"

Sta. 9+42.8 Line 1
Sta. 16+54 " 1
Sta. 17+24.4 " 1
Sta. 29+57.7 " 1
Sta. 33+60.2 " 1
Sta. 38+20.2 " 1

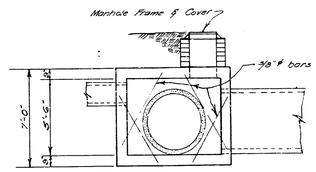


SIDE ELEVATION

REINF. CONC. MANHOLE

SCALE 1/8"=1'-0"

Sta. 18+64.3 Line 1
Sta. 20+81.3 " 1



ELEVATION

REINF. CONC. MANHOLE

SCALE 1/8"=1'-0"

Sta. 22+68.2 Line 1

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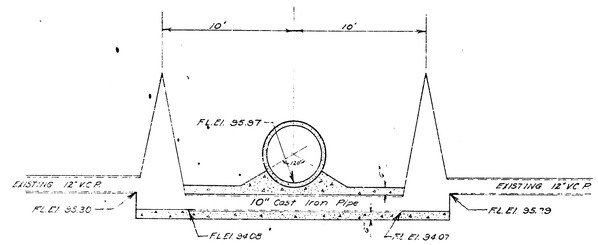


Encase 10" Cast Iron Pipe in Concrete (min. thickness 6")

ELEVATION

SIPHON DETAIL

SCALE 1/8"=1'-0"

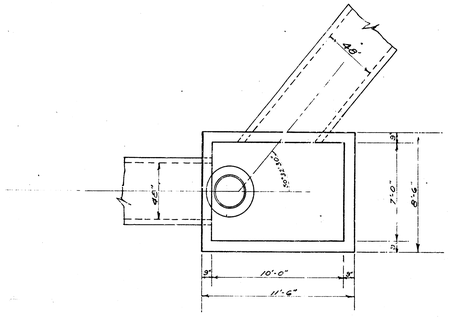
Sta. 33+18 Line 1

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.

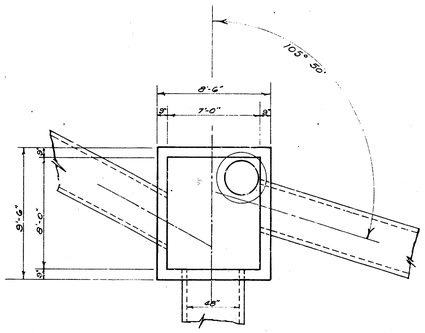
IN GENERAL - Pipes will enter and leave the manholes at various angles and elevations. Where possible bend reinf. bars around pipes (18" diam. or less) Where pipes are large use 5/8" diagonal bars as shown.

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.

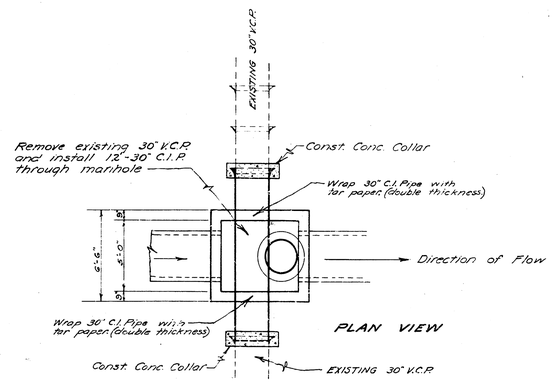
An internal viberator shall be used for placing concrete.



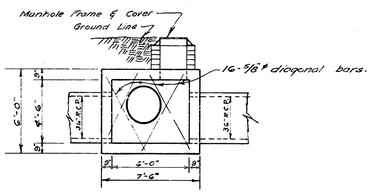
PLAN VIEW



PLAN VIEW



PLAN VIEW

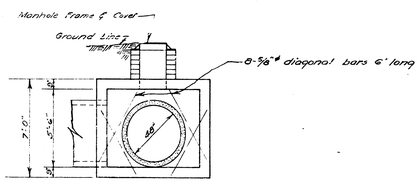


ELEVATION

REINF. CONC. MANHOLE

SCALE 1/4" = 1'-0"

Sta. 58+87.7 LINE 1

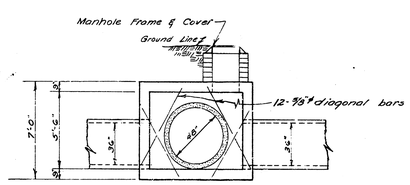


END ELEVATION

REINF. CONC. MANHOLE

SCALE 1/8"=1'-0"

Sta. 39+12.9 Line 1



ELEVATION

REINF. CONC. MANHOLE

SCALE 1/2" = 1'-0"

Sta. 41+26.4 Line 1
Sta. 0+00 " 1A

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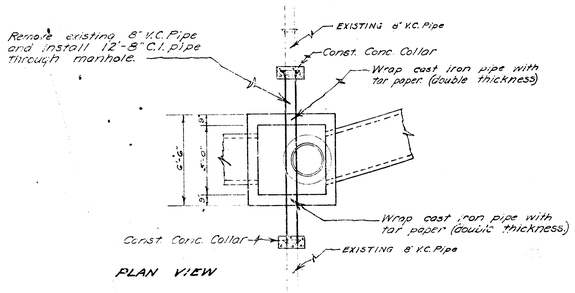
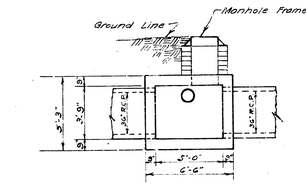


PLAN VIEW

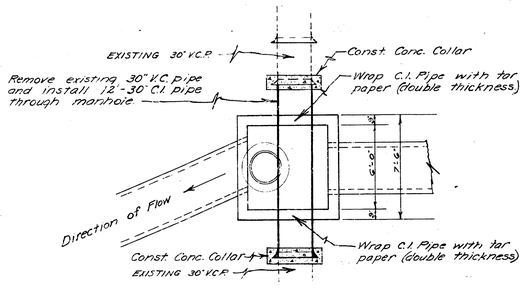


ELEVATION

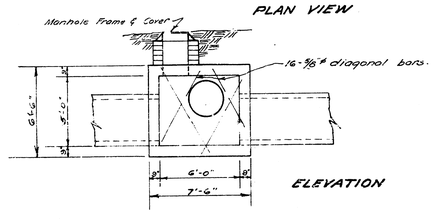
REINF. CONC. MANHOLE

SCALE 1/4" = 1'-0"

Sta. 69 + 57.9 Line 1



PLAN VIEW

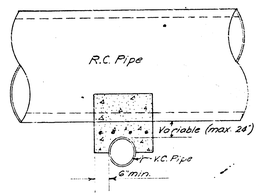


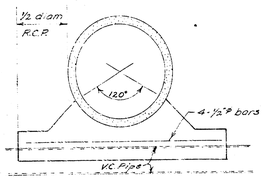
ELEVATION

REINF. CONC. MANHOLE

SCALE 1/4" = 1'-0"

Sta. 6 + 45.1 Line 1A

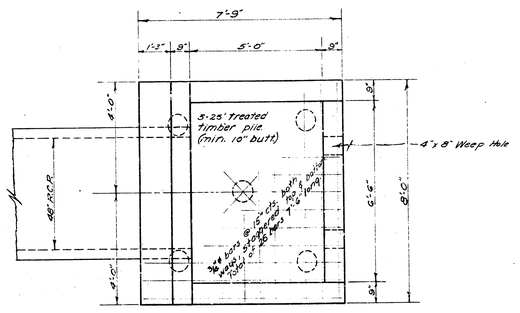




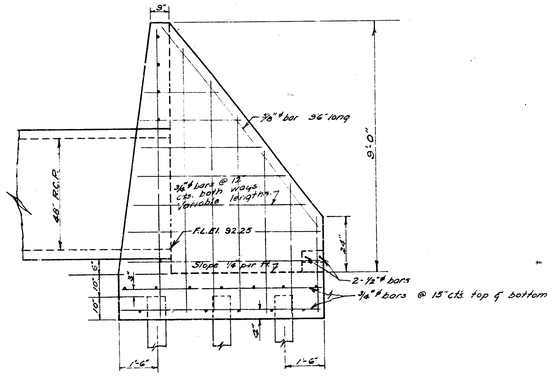
ELEVATION

CONCRETE CRADLE DETAIL

No Scale



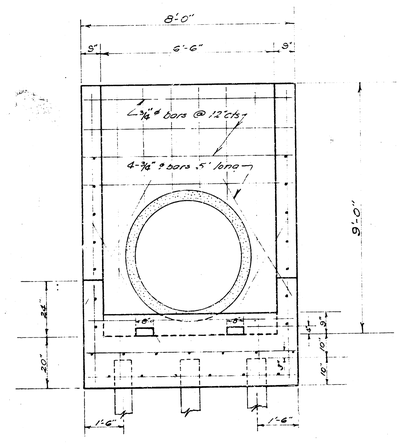
PLAN VIEW



SIDE ELEVATION

OUTFALL STRUCTURE

Scale 1/2" = 1'-0"



END ELEVATION

OUTFALL STRUCTURE

Scale 1/2" = 1'-0"

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