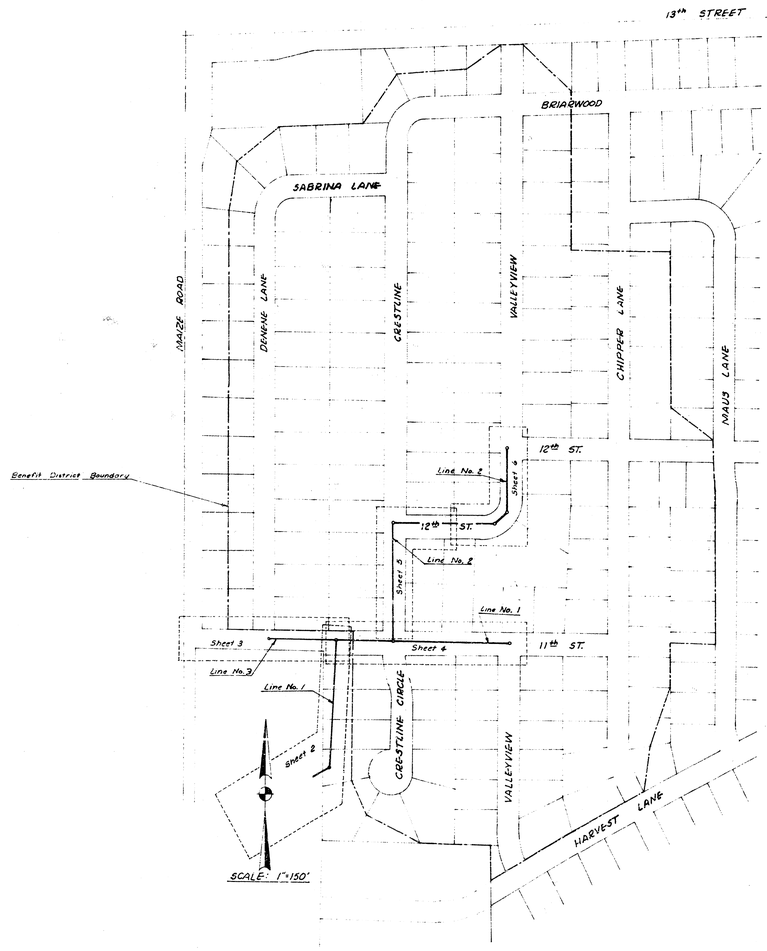
STORM WATER SEWER NO. 99

CITY OF WICHITA, KANSAS

R. W. LINN, CITY ENGINEER



PROJECT NO. DBKA 57207!

DATE: 11-20-73

As Built Final Mos
K-1.0

B.M. 152.283 City Std. on Maize Rd. ½ mile S. of 13th Street; 32.0' N. & 38.0' E. of ¼ Sec. Cor.

SEEDING: All disturbed areas south & west of Sta. 14+00 to be seeded in accordance with Kansas State Highway 1964 Standard Specifications using mixed native grass seed and prairie hay mulch. Seed shall be applied at 80 lbs. per acre and fertilizer at 300 lbs. per acre. Fertilizer shall contain 12% Nitrogen, 12% Phosphate and 12% Potassium. Cost for seeding, mulching and other appurtenant work to be paid for as per acre bid for "Seeding."

Iron Pin Sta. 8+04.7

15' Proposed Construction Easement

Earthwork Limit Line

40' Proposed Drainage Easement

15' Proposed Construction Easement

Construct 8' bottom ditch with 4:1 sides

Remove and replace fence in kind as required for construction. (3 strand barb wire fence)

Iron Pin Sta 10+80.1 (323' S of N.E Cor. of unplatted tract)

10+28

150'

Line No. 1

Install Manhole @ Sta. 12+00 Typical between Sta. 8+00 & 14+00 as required to connect 36" RCP units required as detailed

Start Sta. 11+09.3

Install Manhole See Sheet 3

36" RCP

34°48'

Install 34" RCP End Section To be paid for as L.F. 34" RCP

Construct approx. 150 L.F. temp. "V" channel with 1:1 side slope to drain pipe until R/W is acquired. Contractor to eradicate channel upon completion of Storm Water Sewer.

Fill an area 30' x 30' x 2' deep with broken concrete. This to be paid for at price bid per sq. yd. for dumped rip-rap.

NOTE: All excess excavated material from this project to be stockpiled at locations within Westlink 10th Addn or unplatted tract as determined by Engineer.

NOTE: Engineer to cross-section earthwork areas before and after construction for quantities.

Channel Excavation = 520* C.Y. + 10% = 572 C.Y.
* Note: Includes 140 C.Y. for temp. channel

MANHOLE @ 11+07.3 Type I
Scale: ¼"=1'0"

5"

36" RCP

4'3"

13"

2'9"

For Typical Section See Sheet 6

Manhole depth = 6.03'

MATCH LINE

SCALE: Hor. 1"=20' Ver. 1"=5'

Iron Pin @ NW Cor. Lot 1, Blk 8, Westlink 10th Addn. (10' S. of NE Cor. of unplatted tract.)

15" RCP

36" RCP

Install Manhole See Sheet 3

See Sheet 3 for details

11th Street

36" RCP

Install 3'x6' S.W. Inlet, Sta 13+00

80' Drainage Easement

10' T.S.&E. Easement

Line No. 1

388.33' of 36" RCP @ 0.44%

Inlet Cover

15" RCP

36" RCP

15" RCP

36" RCP

15.5' to center of 11th Street

RTD. 2'x5' INLET @ 14+24.83
Scale: ¼"=1'0"

MATCH LINE

Sta. 10+58 Start Pipe if easements have been obtained

No Sewer Construction unless easements are obtained

Sta 11+09.3 Top 158.5 Invert 147.30 Type I

8'/AKE PIPE

Construct 10' min. cover over pipe

Existing Ground

Line No. 1

Sta. 13+00 Top 153.00 Invert 147.78 Type I

Sta. 14+41.33 Top 150.79 Invert 147.72 Type I

Match Line 147.64

147.30 147.44 147.58 147.72 147.78

388.33' of 36" RCP @ +0.14%

11 12 13 14

+24.83 +91.33

155 150 145

Std. R.C. Basin Channel

NO WORK IN THIS AREA UNLESS EASEMENTS ARE OBTAINED

Existing Ground

Ditch Flowline @ +0.1%

Sta. 10+58

MATCH LINE 147.64

146.99 147.08 147.18

8 9 10

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Sheet 2 of 7

B.M. 151.858 PD Spk N.E. face P.P. 25'S & 49' W. of Iron @ N.W. cor. Lot 1, Blk. 8, Westlink 10th Addn

Iron Sta. 10+49.15; 29.85' Lt.

Iron Sta. 11+99.09; 29.85 Lt.

Install Std. 2'+5' Inlet; Top 153.10

Flo. 148.4

TYPICAL 30' STREET Section

Install 15"-81' R.C.P.

Flo. 148.3

Flo. 148.2

Install Std. 2'+5' Inlet, Top 153.10

Iron Sta. 12+59.11; 28.90 Lt.

For Typical Section See Sheet 6
Manhole Depth = 3.75

15" RCP

4'2" ø

36" RCP

MANHOLE @ Sta 16+41.33 Type 'F'
Scale: 3/8" = 1'0"

8" San. Sewer by Others

Install Manhole Sta. 14+40.33
Top 152.79; Flowline 141.87

Install Std. 2'+5' Inlet, Top 153.02

Install 15'+6' R.C.P.

Install Std. 2'+5' Inlet, Top 153.02

Install 15'+6' R.C.P.

Install Std. 2'+5' Inlet, Top 153.02

Inlets, both side of street, at 80' Centers

10+00 Section Line

MAIZE ROAD

Existing 21" Sanitary Sewer

11th STREET

11

12

13

14

30'

38.2

Install 15"-85' RCP

Flo. 148.9

LINE NO. 37

Flo. 148.3

Install 18"-16' R.C.P.

Flo. M.H.

TYPICAL 30' STREET

Flo. 147.78

Install 36"-16' R.C.P.

Flo. 147.74

Install Manhole Sta. 12+50
Top 153.39; Flowline 148.80

Install 15" RCP @ & Future Pavt

24' Sanitary Sewer

Fence

Existing Ditch

Telephone Cable

E.A.C. Easmt

House

15" RCP

4'2" ø

36" RCP

2'6"±

For Typical Section, See Sheet 6
Manhole Depth = 2.50'

MANHOLE @ Sta 12+50 Type 'E'
Scale: 3/8" = 1'0"

SCALE: HOR 1"=80'
VER 1"=15'

▲B.M.

Iron Sta. 14+01.33; 30.00 Rt.
N.W. Cor. Lot 1, Blk. 8

9°40'

Install Std. 2'+5' Inlet, Top 153.02

Install 15'+6' R.C.P.

Install Std. 2'+5' Inlet, Top 153.02

Install 15'+6' R.C.P.

Install Std. 2'+5' Inlets, Top 153.02

Install 36" RCP See Sheet 6

Telphone Cable

10+00 Section Line

Existing Ground

12+50 Top 153.39
Recut M.H. Type 'E'

Future Pavt Surface

14+41.33 Top 148.79
Recut M.H. Type 'F'

160
155
150
145
140
135
130

15"RCP Line No. 3

36" RCP

148.80

148.40

148.40

148.20

15" Flowline 148.03
36" Flowline 138.29

Existing 21" Sanitary Sewer

191.33' of 15" RCP @ 0.60%

750 13 750 14 141.33

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Sheet 3 of 7

BM 151.858 R.R. Spike N.E. face P.P. 25' S. & 7' W. of Iron @ N.W. Cor. Lot 1, Blk 5, Westlink Village 10th Add'n.
BM 152.455 "+" Top of W. Curb, Chipper @ N.L. 11th St.

SCALE: Hor. 1"=20' Ver. 1"=5'

For Detail, See Sheet 3

Existing San. Sewer

Install Std 2'x5' Inlet Top 152.90

Iron: 30.06' Lt Sta. 15+40.89

Std 30' Street

CRESTLINE CIRCLE

730 R.C.P. Line No. 2

Install 15"x38" R.C.P.

Install 36"x 150.75' R.C.P. @ +0.12 % on & of 11th St.

Std 30' Street

8" San. Sewer @

Water Line

Iron: 30.0' Rt, Sta 14+01.33

80' Drainage Easement

36" RCP See Sheet 2

Iron: 30.0' Rt Sta. 15+43.00

Install Std 2'x5' Inlet Top 153.60

Install Std 2'x5' Inlet Top 153.20

Iron: 30.05' Lt Sta 16+21.29

Install 15"x38" R.C.P.

Line No. 1

Install Manhole Sta 15+92.08, Top 153.24, Flowline 147.96

Install 15"x38" R.C.P.

Iron: 29.95' Rt. Sta. 16+23.07

Install Std. 2'x5' Inlet Top 153.40

Install 15"x38" R.C.P.

CRESTLINE CIRCLE Std. 30' Street

Iron: 30.6' Lt Sta. 17+20.93

Existing San. Sewer

11th STREET NORTH

326 ± L.F. 8" San. Sewer

Install 18"x327.22' R.C.P. @ +0.7% on & of 11th St.

Std 30' Street

Water Line

Iron: 29.84' Rt. Sta. 18+80.32

Install Std 2'x5' Inlet Top 153.60

VALLEYVIEW Std 30' Street

Install Std 2'x5' Inlet Top 153.50

Install 15"x38" R.C.P.

Install Manhole Sta 19+19.3 Top 155.19, Flowline 151.50

Install 15"x38" R.C.P.

Install 15"x38" R.C.P.

Install Std 2'x5' Inlet Top 153.60

Install Std 2'x5' Inlet Top 153.60

Iron: 29.83' Rt. Sta. 19+69.20

Install Std 2'x5' Inlet Top 155.60

For Typical Section See Sheet 4

Manhole Depth = 2.50'

MANHOLE @ Sta. 19+19.3 Type II

Scale: 3/8"=1'0"

For Typical Section, See Sheet 4

Manhole Depth = 3.75'

Alternate brick masonry walls to be 12" thick all sides.

Wall location if bevel pipe cut is not desired by Contractor.

MANHOLE @ Sta. 15+92.08 Type I

Scale: 3/8"=1'0"

Proposed 7" Pav't

15" RCP See Sheet 3

+41.33

36" R.C.P. @ +0.12 % Line No. 1

150.75 L.F. 36" R.C.P. @ +0.12 %

8" San. Sewer

Flowline 146.78

+92.08 Top 153.24 Recpt. Mt. H Type I

36" Flowline 142.96

18" Flowline 142.20

Existing Ground

18" R.C.P. @ +0.7% Line No. 1

327.22 L.F. 18" R.C.P. @ +0.07%

8" San. Sewer

+19.3 Top 155.19 Recpt. Mt. H Type II

Flowline 151.48

160 155 150 145 140

147.85 149.26 149.96 150.66 151.36

+41.33 15 +92.08 16 17 18 19 +19.30

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Sheet 4 of 7

B.M. 151.858 - R.R. Spike N.E. Face P.P. 25' S. & 7' W. of Iron @ N.W. Cor. Lot 1, Blk 8, Westlink Village 1052 add'n.

Iron: 30.00 Lt. Sta 14+23.00

Install Manhole Sta 15+92.08 Line No. 1 & Line No. 2

Flo. 148.02

Install 30" x 306.89' R.C.P. @ +0.2%

on & of Crestline

CRESTLINE Line No. 27

Std. 30' Street

Water Line

Line No. 1

18" R.C.P.

30" R.C.P.

STREET

For Detail, See Sheet 4

Iron: 30.00 Rt. Sta 14+81.63

Iron: 29.88' Rt. Sta 18+42.56
32.00' Lt. Sta 19+28.94

Install Std. 2'x5' Inlet, Top 153.20

Iron: 29.95' Rt. Sta 17+43.07

Install 15"x36" R.C.P.

Install Manhole Sta 18+98.97
Top 153.07, Flowline 140.23

Flo 148.63
Flo 149.20

Flo 148.40

Flo 148.63

Flo 149.20

Flo 148.40

Install Std. 2'x5' Inlet, Top 153.00

Install 15"x36" R.C.P.

Install Std. 2'x5' Inlet, Top 153.30

Install 15"x24" R.C.P.

Iron: 29.88' Rt. Sta 19+21.98
24.06' Lt. Sta 19+28.97

Install Std. 2'x5' Inlet, Top 152.70

37°

39°

33°

27°

End Pt.

34'

30'

84'

30'

Water Line

18" STREET

24"-174L R.C.P. @ 0.16%

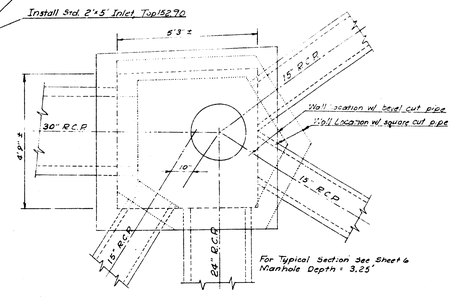
Sta. 30' Street

Line No. 2

San. Sewer

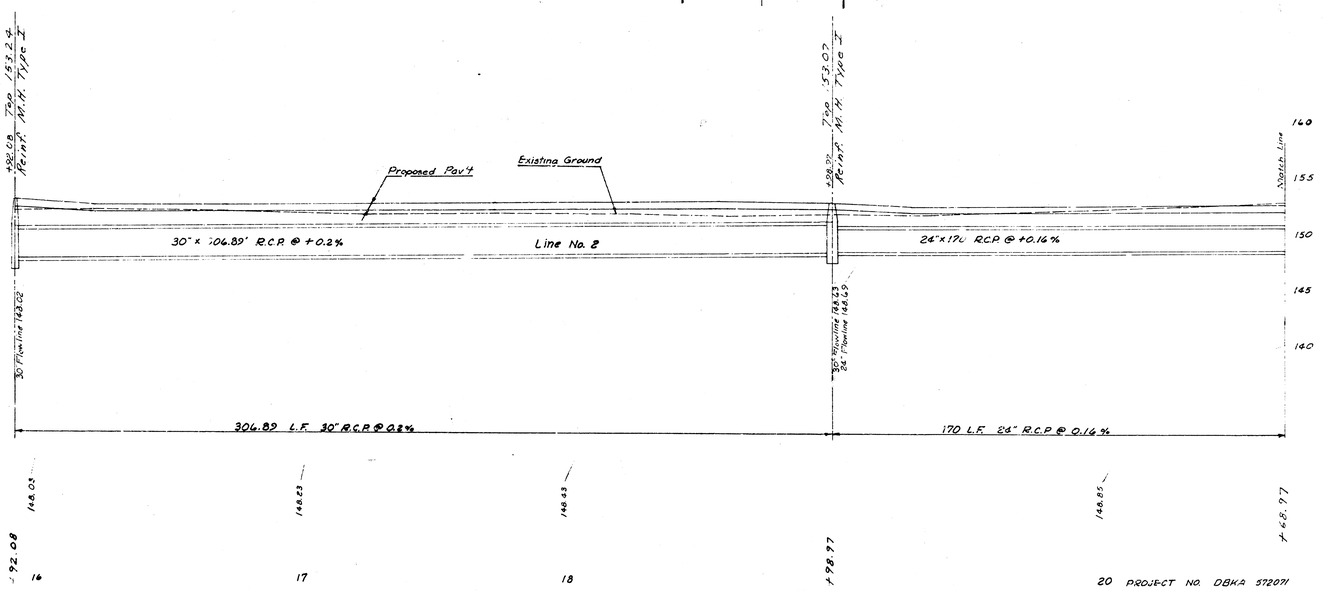
Match Line Sta. 20+69

SCALE: Hor. 1"=20'
Ver. 1"=5'



For Typical Section See Sheet 4
Manhole Depth = 3.25'

MANHOLE @ STA. 18+98.97 Type I
Scale: ½"=1'0"

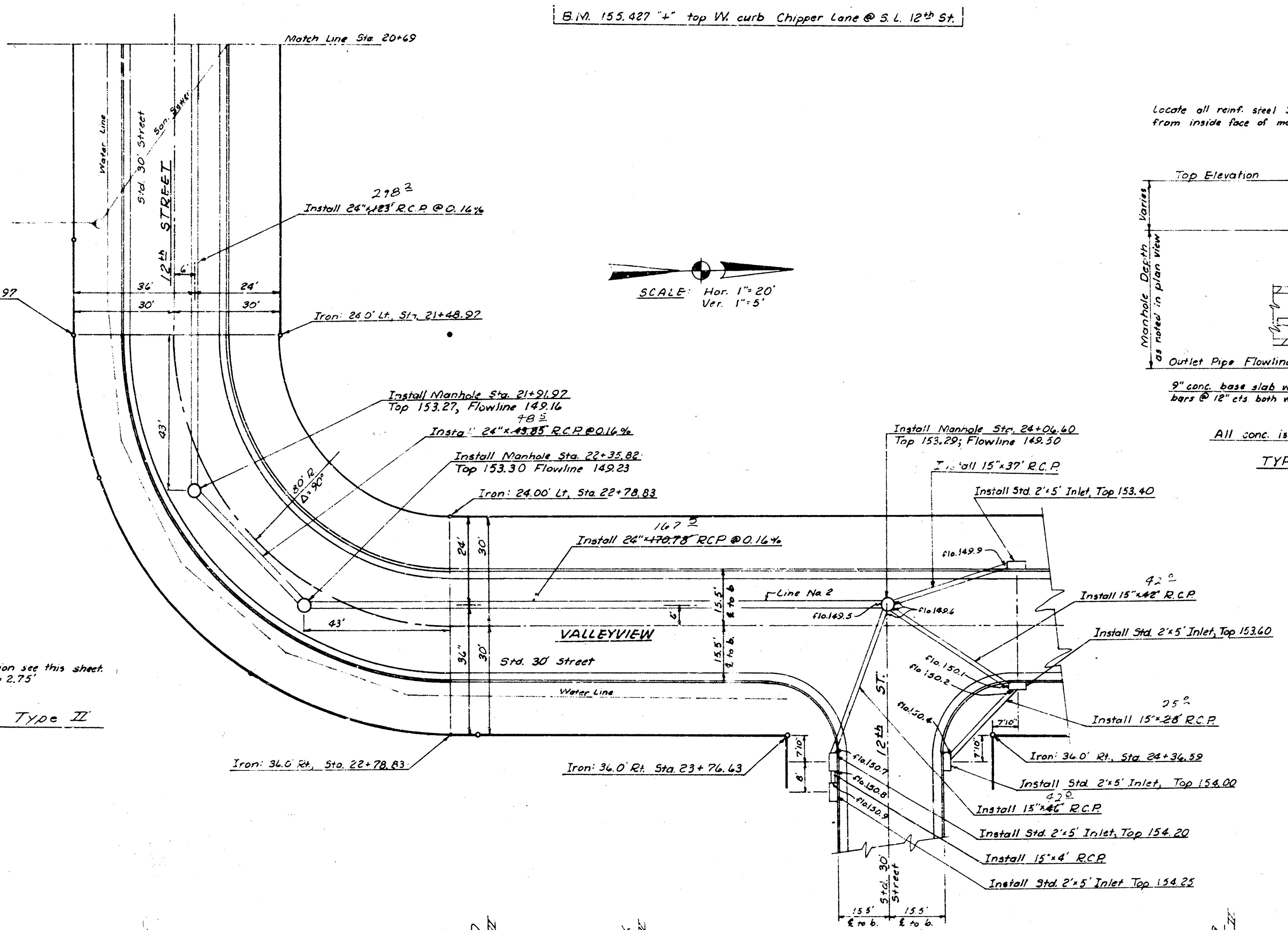


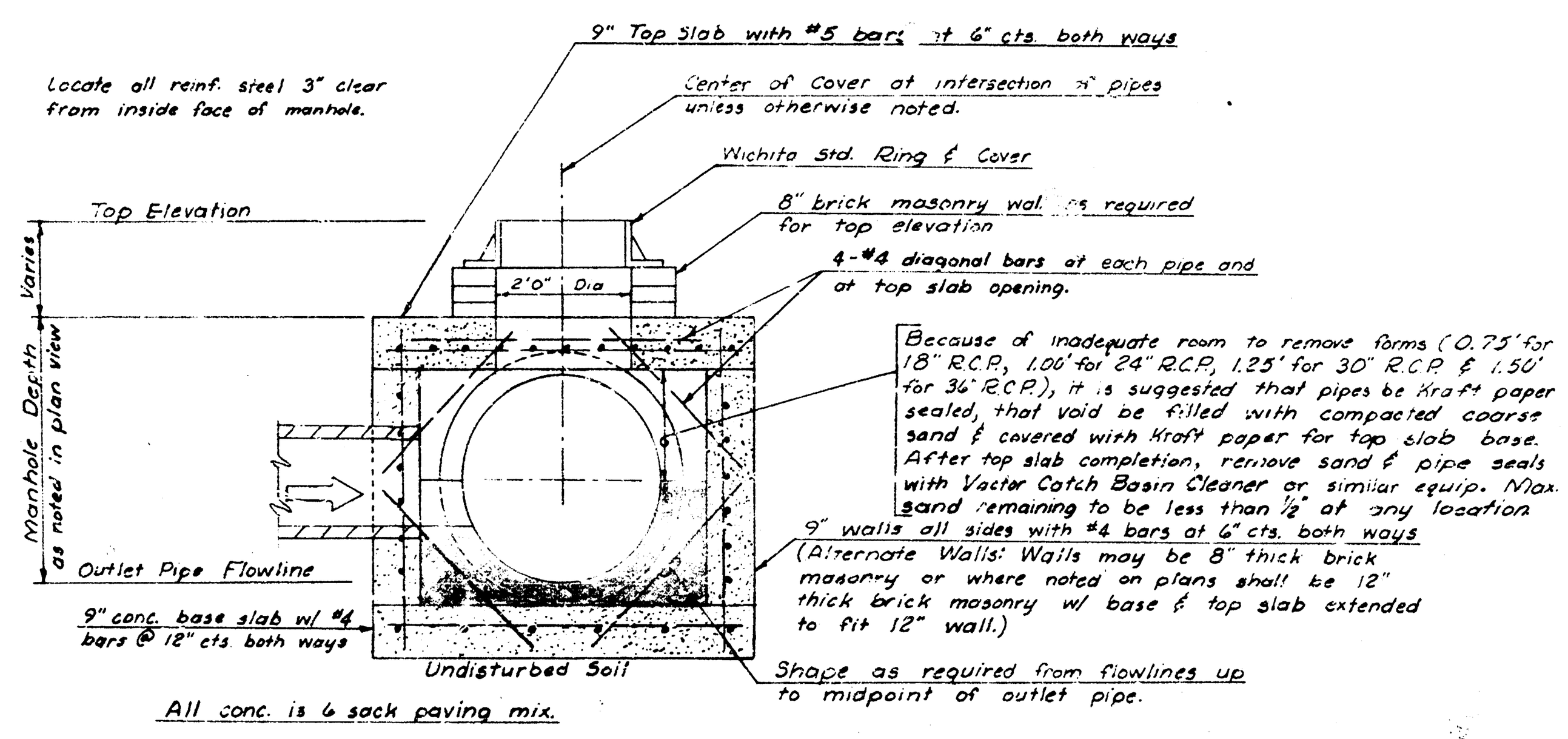
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STORM WATER SEWER #99

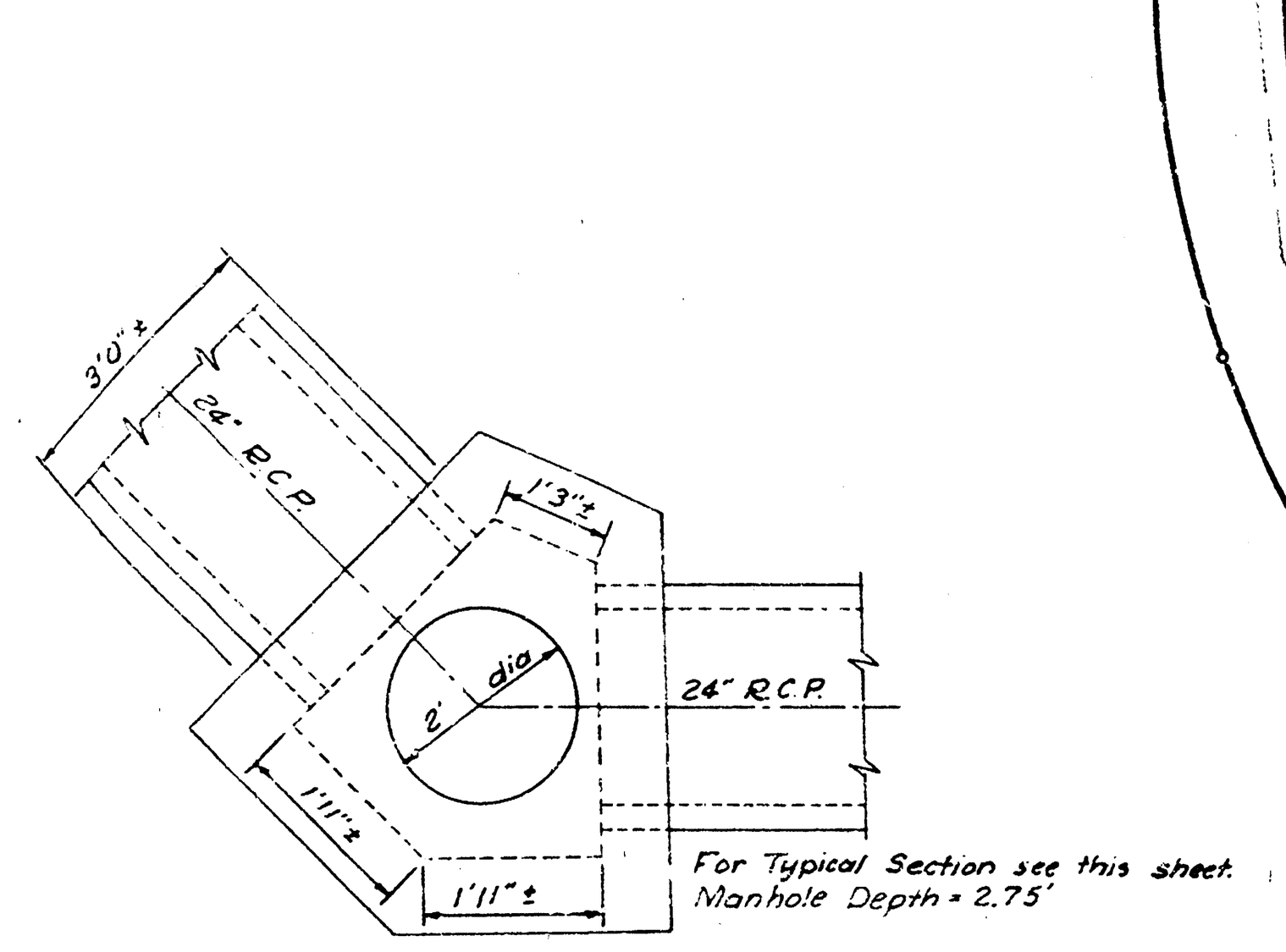
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B.M. 155.427 "+" top W. curb Chipper Lane @ S.L. 12th St.

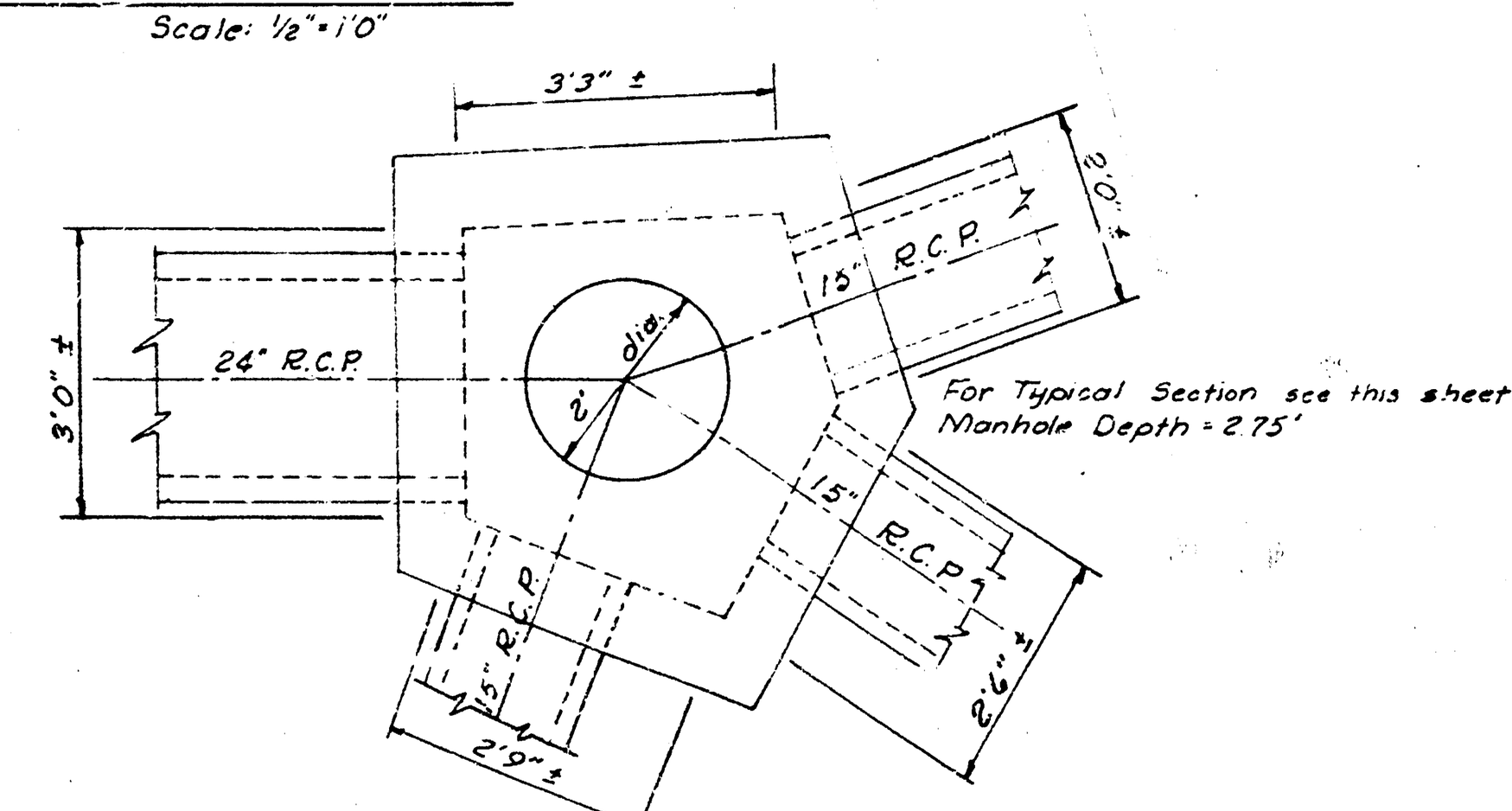




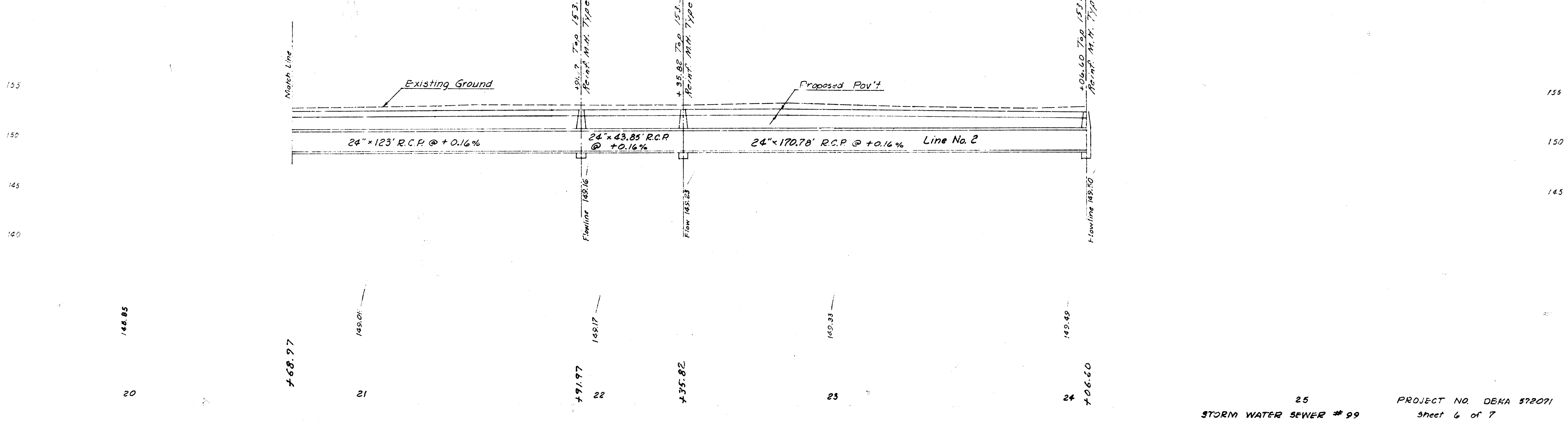
TYPICAL SECTION THRU MANHOLE
Scale: ½" = 1'0"



MANHOLE @ STA. 21+91.97 & STA. 22+35.82 Type II
Scale: ½" = 1'0"



MANHOLE @ STA. 24+06.60 Type II
Scale: ½" = 1'0"



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