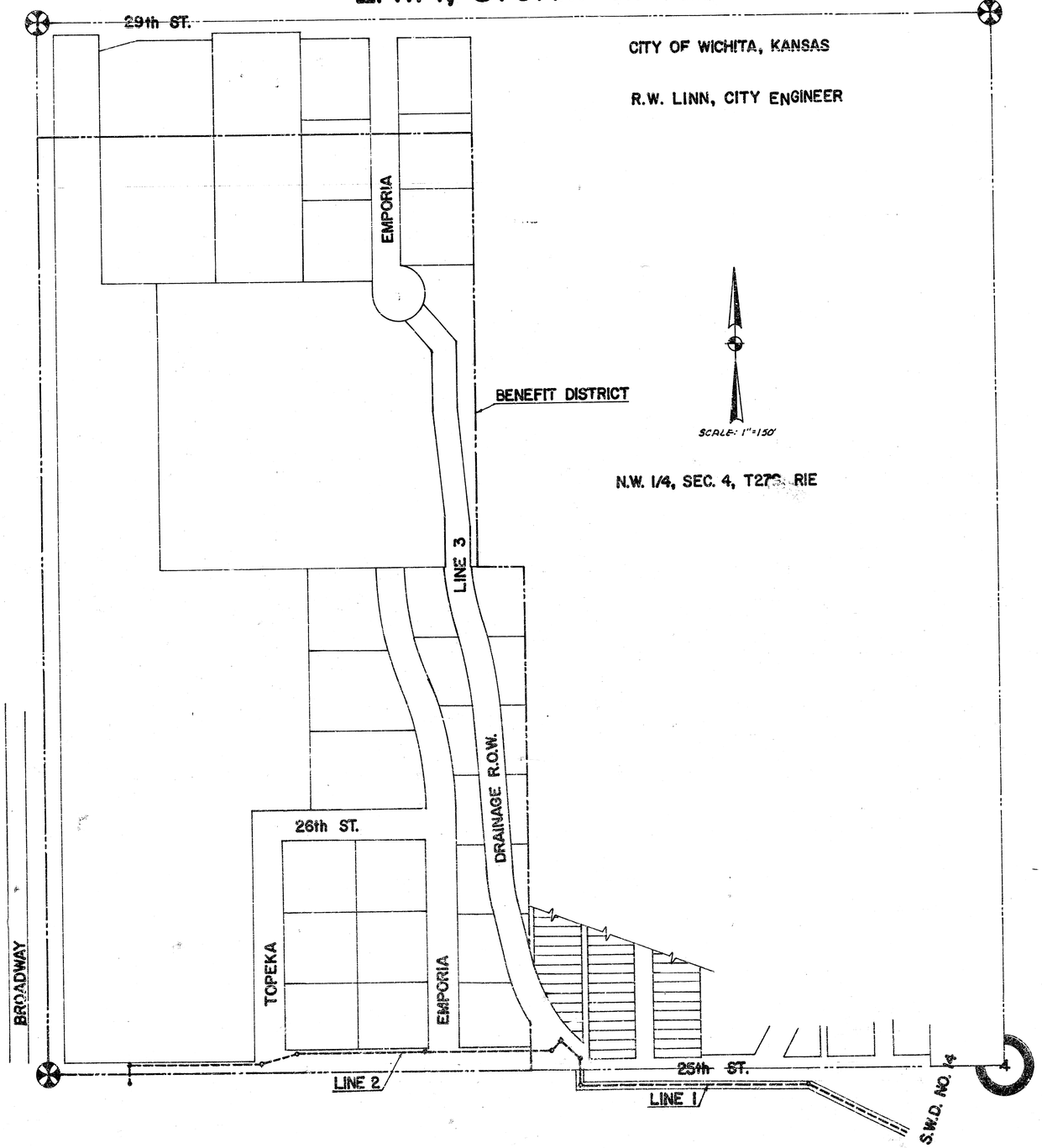
LAT. I, STORM WATER DRAIN NO. 14



CITY OF WICHITA, KANSAS

R.W. LINN, CITY ENGINEER

SCALE: 1"=150'

N.W. 1/4, SEC. 4, T27S, R1E

GENERAL NOTES

1. THE PRICE BID FOR CLEARING RIGHT OF WAY SHALL INCLUDE ALL COSTS OF REMOVING OBSTRUCTIONS, CLEARING TREES, SHRUBS, VEGETATION, SLABS, FOUNDATIONS, RUBBLE AND ETC.; AND ALL OTHER NECESSARY WORK TO PREPARE THE PROJECT SITE FOR NEW CONSTRUCTION, REGARDLESS OF WHETHER OR NOT THE WORK IS SPECIFICALLY SHOWN ON THE PLANS, EXCEPT THAT WORK CONSISTING OF REMOVING AND REPLACING FENCES SHALL BE PAID FOR SEPARATELY. THE CONTRACTOR SHOULD INSPECT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF WORK REQUIRED. THE SPUR TRACK ON THE CHANNEL RIGHT OF WAY BETWEEN STA. 3+00 AND STA. 9+50 IS TO BE REMOVED BY THE OWNER.

2. CHANNEL EXCAVATION SHALL BE PAID FOR AT THE PRICE BID PER CUBIC YARD OF EXCAVATION. ENBANKMENT SHALL BE PAID FOR AT THE PRICE BID PER CUBIC YARD OF COMPACTED FILL.

3. PIPES LARGER THAN 12" DIAMETER FURNISHED FOR THIS PROJECT SHALL BE EITHER ALL REINFORCED CONCRETE PIPE OR ALL CORRUGATED METAL PIPE. CORRUGATED METAL PIPE HAVING DIAMETERS OF 18" OR SMALLER SHALL HAVE HELICAL CORRUGATIONS. CORRUGATED METAL PIPE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 1009.05 AND 1009.07 OF THE 1973 KANSAS STATE HIGHWAY STANDARD SPECIFICATIONS, EXCEPT THAT 60" CORRUGATED METAL PIPE MAY BE 12 GAUGE UNLESS SPECIFIED OTHERWISE BY PLANS. PITZ BETWEEN STA. 9+68.82 AND STA. 10+43.82 SHALL BE EITHER CLASS V REINFORCED CONCRETE PIPE OR 8 GAUGE CORRUGATED METAL PIPE. CORRUGATED METAL PIPE FURNISHED FOR THIS PROJECT IS NOT REQUIRED TO BE COATED.

4. THE CHANNEL AND OTHER AREAS AS DETERMINED BY THE ENGINEER SHALL BE SEEDED WITH MIXED NATIVE GRASS SEED AS SPECIFIED IN SECTION T2-13 OF THE 1966 KANSAS STATE HIGHWAY STANDARD SPECIFICATIONS. FERTILIZING, SEEDING, AND MULCHING SHALL CONFORM TO SECTIONS H2, H5, H6, AND ALL OTHER RELATED SECTIONS OF THE 1966 KANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS. MULCH SHALL BE PRAIRIE HAY. NATIVE GRASS SEED SHALL BE APPLIED AT THE RATE OF 80 LBS. OF SEED PER ACRE. FERTILIZER SHALL BE APPLIED AT THE RATE OF 300 LBS. OF FERTILIZER PER ACRE. FERTILIZER SHALL CONTAIN A MINIMUM OF 12% NITROGEN, 12% PHOSPHATE, AND 12% POTASSIUM.

5. END SECTIONS ARE TO BE INSTALLED TO MATCH CHANNEL SLOPES ON ALL LOCATIONS CALLED OUT BY PLANS FOR INSTALLING 12" CORRUGATED METAL PIPE. PIPE LENGTHS AS INDICATED IN CONSTRUCTION NOTES ON PLANS INCLUDE LENGTHS OF THE END SECTIONS. PIPE LENGTHS AND LOCATION OF INLETS ALONG EAST SIDE OF CHANNEL MUST BE VERIFIED IN THE FIELD AFTER COMPLETION OF THE CHANNEL AND NECESSARY AREA GRADING. THE AREA EAST OF THE CHANNEL AND WEST OF THE RAILROAD TRACKS SHALL BE GRADED TO DRAIN TO THE INLETS. TRENCH BACKFILL AT LOCATIONS WHERE 12" CORRUGATED METAL PIPE IS TO BE INSTALLED SHALL BE THE EXCAVATED MATERIAL COMPACTED TO A MINIMUM DENSITY OF 95% OF STANDARD DENSITY. THE WORK CONSISTING OF COMPACTED EXCAVATED MATERIAL BACKFILL WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE SUBSIDIARY TO THE OTHER ITEMS OF WORK.

6. THE CHANNEL SHALL BE CONSTRUCTED USING CURVE TRANSITIONS AT ALL POINTS OF HORIZONTAL ALIGNMENT CHANGES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOSS OF ANY GROWING CROP ON THE WICHITA UNION STOCK YARDS PROPERTY THAT IS DAMAGED BY HIS OPERATIONS ON THE EASEMENT AND ADJACENT AREA BETWEEN STA. 0+35 AND STA 9+70. THE COMPENSATION TO WICHITA UNION STOCKYARDS WILL BE BASED ON THE ACTUAL AREA DAMAGED, THE NORMAL RATE OF PRODUCTION, AND THE CURRENT MARKET VALUE OF THE CROP.

LAT. I, SWD NO. 14

PROJ. NO. DBKA 574074

DATE: February 1975

As Built 12-15-75

1/9 SHEET 1 OF 9

BM 122.79 City Std. @ Washington & 25th St. N.

B.M. 125.16 R.R. spike S.W. side Bell Pole, N. side 25th St. N @ Sta. 10+39

Start pipe @ inside face of existing drainage structure
Sta. ~~0+35.44~~ 0+00

S.W.D. #14

20' Drainage Easement

Construct Manhole Sta. ~~2+69.66~~ 2795 2
Δ = 25°12'59"

Remove & Replace Fence as required

Water Line

20' Drainage Easement

Constr. Manhole Sta. ~~9+68.82~~ 9734 8
Δ = 90°

Jack pipe under railroads. Cost to be included in bid price for pipe.

Iron @ ¼ Sec. Line

Center of Section 4, T27S, R1E

¼ Sec. Line

25th STREET NORTH

45.00'

55'

O.P.P.

O.R.R.

O.H.

25.48'

Bell Pole

Gravel

C.A.C. Pavt'g

8" Water

20" Water

7" H.P. Gas (Arvin)

Line 27

Constr. Manhole Sta. ~~10+25.88~~ 10+15 2
Δ = 47°41'

Constr. Headwall Sta. ~~11+10.46~~ 10+76 4
See Sheet 5

Santa Fe Vacated

LINE 3

Sta 11+10.46 End of Pipe

EMPORIA

JFG: 939
WSK

SCALE: Hor. 1"=50'
Ver. 1"=5'

Existing 42" RCP
Existing Drainage Structure
Sta. 0+35.44 Start Pipe @ inside face of existing structure

Sta. 3+29.80 Constr. Std. Reinf. Conc. Manhole, Top 124.20

Existing Ground

Water Line

Sta. 9+49.72 Constr. Std. Reinf. Conc. Manhole Top 124.50

8" Water Line
2" H.P. Gas Line
20" Water Line
Sta. 10+53.46 Constr. Std. Conc. Manhole, Top 125.30

Sta 11+10.46 End of Pipe
Constr. Headwall

114.35
114.86
115.45
116.71
116.86
116.99

1075.22' of 36" RCP @ +0.20%
1075.22' of 60" CMP @ +0.20% (Flowline 0.50' below as shown)

114.97 | 115.17 | 115.37 | 115.57 | 115.77 | 115.97 | 116.17 | 116.37 | 116.57 | 116.77 | 116.97

0 1 2 3 4 5 6 7 8 9 10 11

130 125 120 115

LINE 1, LAT. 1, SWD # 14 Project No. DBKA 574074 Sheet 2 of 9

2/9

BM 124.35 RR Spike N. side P Pole S. side 25th St. N. approx. 100' E. of R.R. Tracks @ Broadway

Sta 12+57.2
Constr. Type A 4' dia. MH with Std. Wide Flanged Ring & Neenah R-4351-D Beehive Grate or approved equal, Top 123.50
Install 96' of 15" Pipe
USFL 120.70, DSFL 120.20

Iron Sta. 24+83.08 @ Sec. Cor.

Iron on 1/4 Sec. Line

Start Pipe Sta. ~~10+59.40~~ @ inside face of headwall

Iron Sta. 11+45.42 on 1/4 Sec. Line

Constr. Manhole Sta. ~~14+58~~ 3+82

Iron Sta. 17+09.54 on 1/4 Sec. Line

Constr. Manhole Sta. ~~18+91.43~~ Ahead
Sta. ~~18+95.44~~ Back
Δ = 16°08'24"

Iron Sta. 20+02.83 on 1/4 Sec. Line

Telephone Cable

Telephone Cable

R.P. & (BM)

12" Water

7" H.P. Gas (Arkla)

8" Water

A.C. Pav't

25th St. N.

BROADWAY

20" Water

Line 1

Line 3

Constr. Manhole Sta. ~~10+88.23~~ 0+31.7
Δ = 47°41"

Constr. Headwall See Line 1

Constr. Manhole Sta. ~~17+36.93~~ 7+45.6
Δ = 16°08'24"

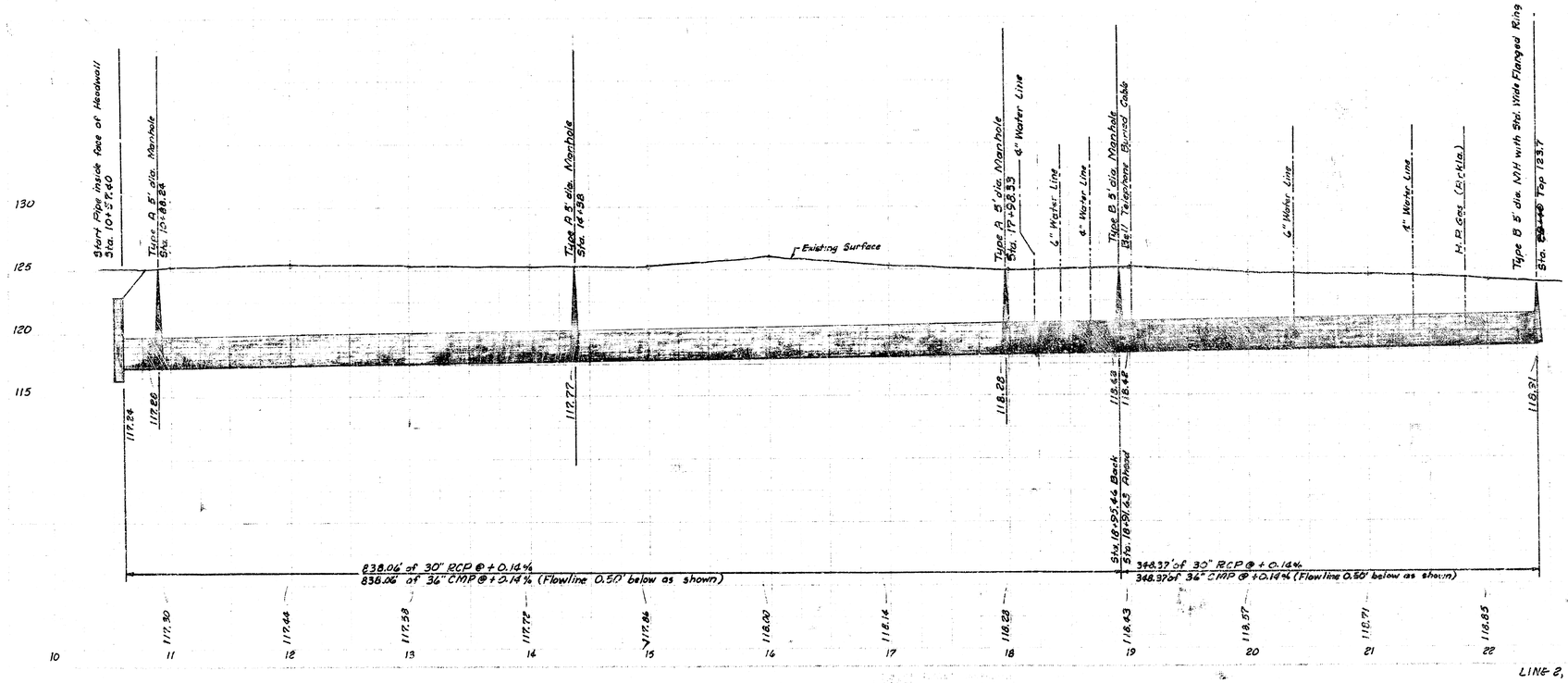
Constr. Manhole Sta. ~~23+40~~ 11+82.9
Install 15" Stub
Flo. 121.00 @ 0.25%

Optional drainage by Owner.

ENDORIA

TOPEKA

SCALE: Hor. 1"=50'
Ver. 1"=5'



BM 125.16 RR Spike SW side Bell Pole 50' SW of Tracks on N. side of 25th St.

T.B.M. 124.61 SW cor. Conc. Pit Sta. 9+64; 49' Rt. ℄ Channel

TYPICAL DITCH SECTION, Sta. 0+93 to Sta. 7+16

Scale: Hor. 1"=10'
Ver. 1"=5'

TIES TO IRON @ Sta. 0+00
3.9' S. to ctr. extreme N. rail
32.6' NE to SE cor RR tie Fc. Post
23.0' NNW to RR spike on SW side Bell Pole
35.6' NW to SW cor. RR tie Fc. Post

25th STREET NORTH

EMPORIA

A.L. Crawford's Sub. No. 1

Earthwork Limits

Iron

Iron Sta. 0+00 Line 3:

Headwall See Line 1

Sta. 0+50

138°30'

R.C. Sta. 0+52.48

Line 1 & Line 2 connections to Line 3 not shown on this sheet.

CURVE DATA:
R = 454.07'
Δ = 33°27'30"
T = 137.08'
L = 266.33'

Sta. 0+89
Install Special Drop Inlet 37.5' Rt, Top 124.5
Install 36' of 18" helical CMP
DSFL 119.0 @ 1.0' Rt.
USFL 123.0 @ 37.0' Rt.

P.I. Sta. 1+89.50

P.T. 3+18.75

P.C. Sta. 4+90.57

P.I. Sta. 5+34.57

P.T. Sta. 5+82.30

CURVE DATA:
R = 655.87
Δ = 10°49'
T = 46.0'
L = 91.73'

Sta. 3+45 Install Special
Drop Inlet 37.5' Rt, Top 125.1
Install 31' of 18" helical CMP
DSFL 120.7 @ 4.0' Rt.
USFL 123.4 @ 37.0' Rt.

P.C. Sta. 9+95.58

P.I. Sta. 10+93.58

Sta. 4+47 Install Special
Drop Inlet 37.5' Rt, Top 125.4
Install 31' of 12" helical CMP
DSFL 121.3 @ 4.0' Rt.
USFL 123.9 @ 37.0' Rt.

SCALE: Hor. 1"=50'
Ver. 1"=5'

EL Blk 3, North Industrial Addn.

Sta. 8+17 Install Special
Drop Inlet 35.5' Rt, Top 123.0
Install 87' of 12" helical CMP
DSFL 121.5 @ 4.0' Rt.
USFL 123.5 @ 39.0' Rt.

CURVE DATA:
R = 855.71'
Δ = 13°20'
T = 98.0'
L = 195.15

P.T. Sta. 11+90.73

Sta. 12+64 Install Special
Drop Inlet 33.5' Rt, Top 125.9
Install 27' of 12" helical CMP
DSFL 122.5 @ 4.0' Rt.
USFL 124.4 @ 33.0' Rt.

P.C. Sta. 12+44.07

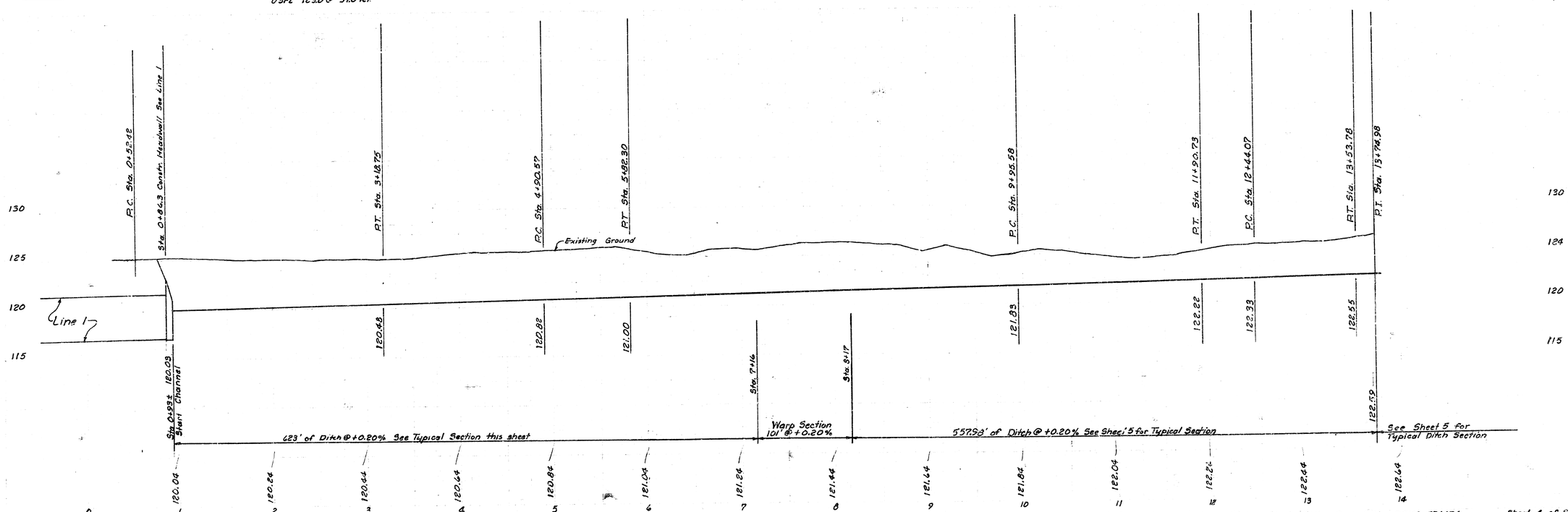
P.I. Sta. 12+99.07

CURVE DATA:
R = 617.79
Δ = 10°10'30"
T = 55.0'
L = 109.71'

P.T. Sta. 13+53.78

P.I. Sta. 13+76.98 Back
Δ = 6°04'

NOTE: FIELD ENGINEER TO TAKE NEW ORIGINAL CROSS-SECTIONS FOR EARTHWORK.

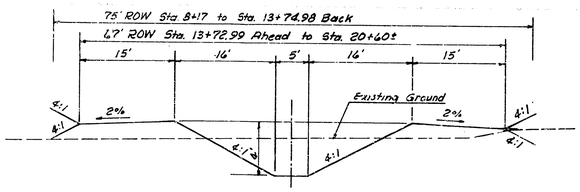


JFG 236

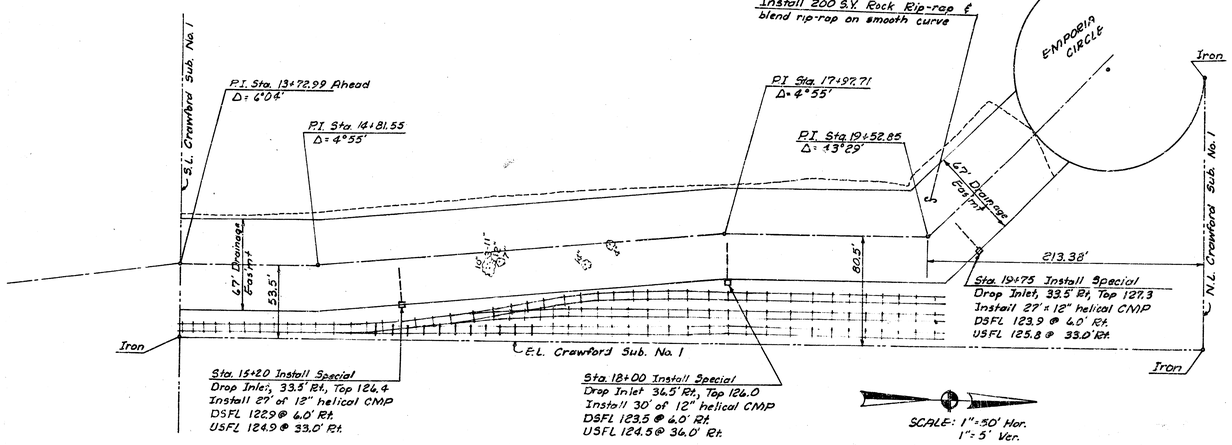
LINE 3, LAT. 1, SWD #14 Project No. DBKA 57407d

Sheet 4 of 9

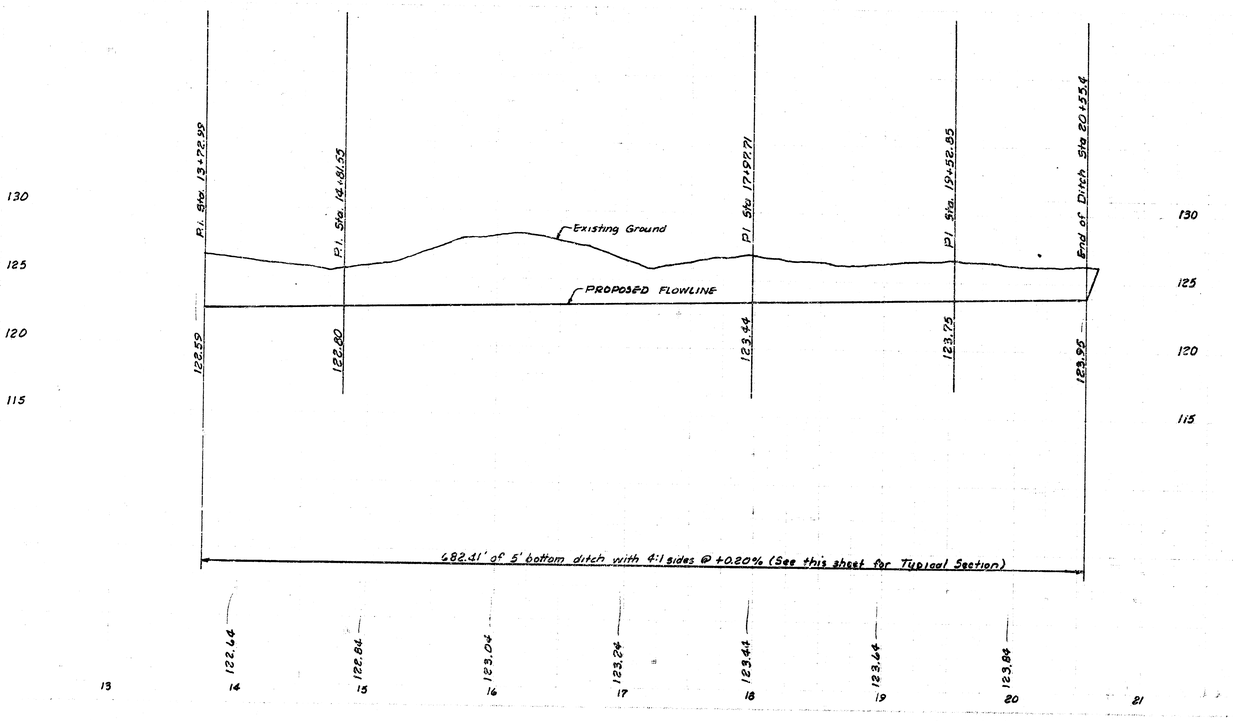
4/9

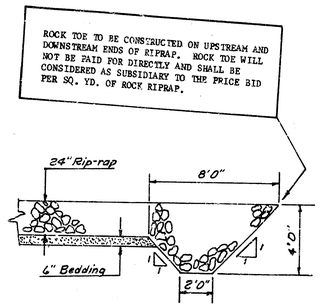


TYPICAL DITCH SECTION, Sta. 8+17 to Sta. 20+55.4
Scale: Hor. 1"=10'
Ver. 1"=5'

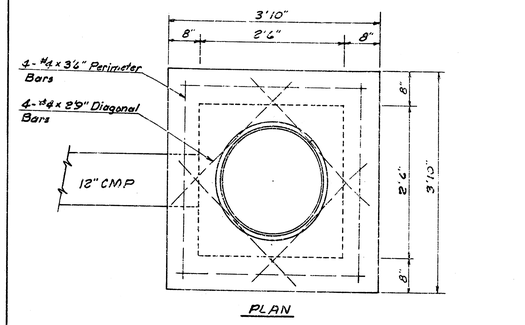


SCALE: 1"=50' Hor.
1"=5' Ver.

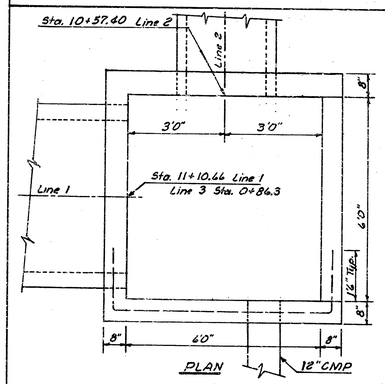


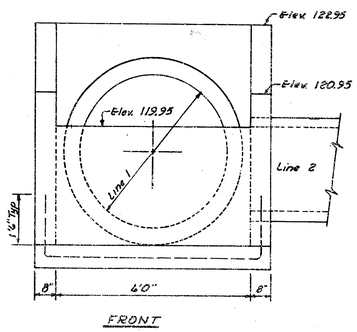


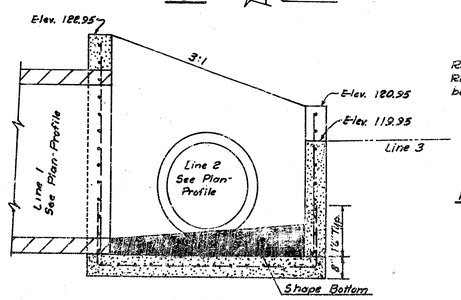
DETAIL OF RIP-RAP



SPECIAL DROP INLET
Not to Scale





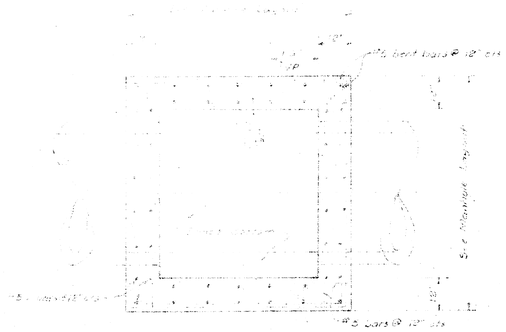


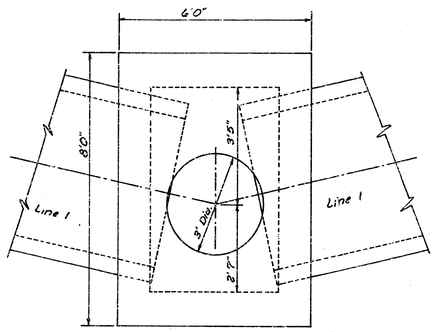
Rebars in all walls & base are #4 Bars @ 6" cts both ways. Rebars in base and horizontal bars in side walls are bent as shown.

HEADWALL AT JUNCTION OF LINE 1, LINE 2 & LINE 3
Scale ½"=1'0"

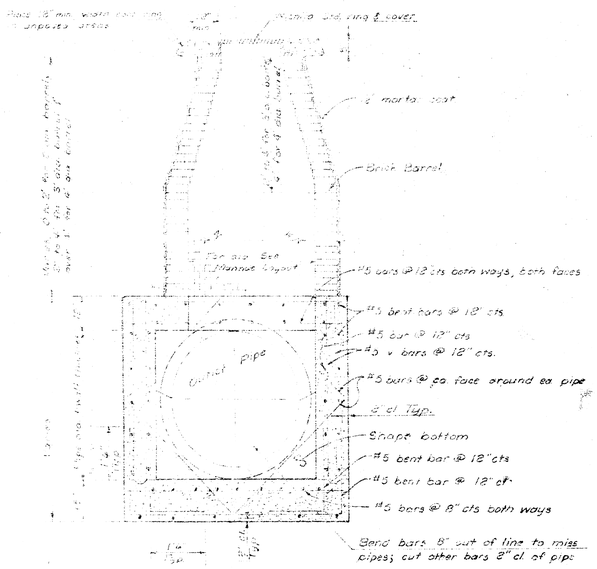
LINE 3, LAT. 1, SWD #14 Project No. DBKA 5740(6) 3 Sheet 5 of 9

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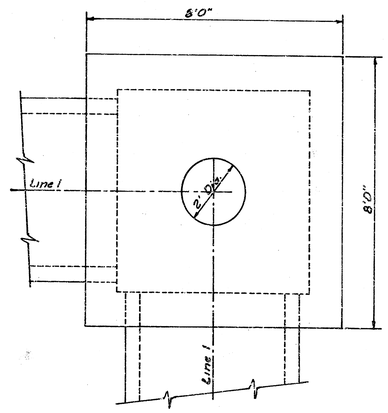


MANHOLE @ Sta. 3+29.80 Line 1

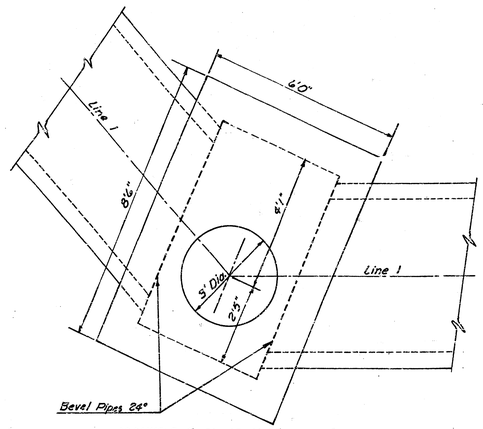


TYPICAL ELEVATION SECTION
SCALE: 1/2" = 1'0"

STD. 12'-0" I.D. CONC. MANHOLE DETAILS



MANHOLE @ Sta. 9+60.82 Line 1



MANHOLE @ Sta. 10+43.82 Line 1

LOT 1, SHD #14
Project No. 0180A3 STAGE 1
Sheet 7 of 9

LAT. I, SIND #14
Project No. DBKA 974074
Sheet 8 of 9
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