

PROJECT	2017-042	SHEET NO.	40	TOTAL SHEETS	83
8" PAVEMENT LAYOUT		DATE	1/23/2018		



SCALE: 1" = 40'

NEW CONCRETE PAVING

- 28. **STA. 36+05 TO 36+28 - 24' LT.**  
INSTALL 65 SF OF 6" CONC. MAILBOX TURNOUT
- 29. **STA. 37+40.0 TO 38+17.5 - 24' LT.**  
INSTALL 442 SF OF 6" CONC. CONCRETE DRIVEWAY
- 30. **STA. 40+44.0 TO 40+70.0 - 24.0' LT.**  
SALVAGE EXISTING GRAVEL.  
INSTALL 105 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED

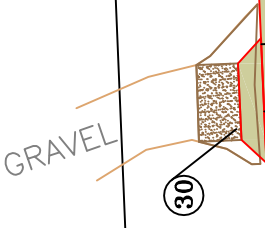
Beveland Valley  
Subdivision

LOT 1

LOT 2

**NOTE:**  
STA. 37+94 - 26.0' LT.  
DO NOT DISTURB EXISTING  
2'X2' BRICK PILLAR MAILBOX

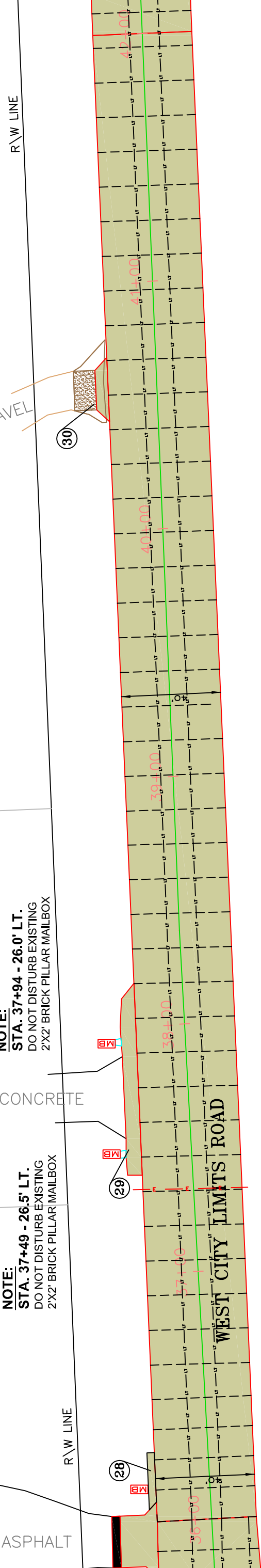
**NOTE:**  
STA. 37+49 - 26.5' LT.  
DO NOT DISTURB EXISTING  
2'X2' BRICK PILLAR MAILBOX



ASPHALT

CONCRETE

GRAVEL



R\W LINE

R\W LINE

**LEGEND**

- LT ——— LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L ——— LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND  
14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED  
AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	41	83
8" PAVEMENT LAYOUT		1/23/2018

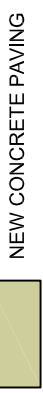


SCALE: 1" = 40'

- 31. STA. 45+74.0 TO 45+97.8 - 20.0' RT.  
SALVAGE EXISTING GRAVEL  
INSTALL 94 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED
- 32. STA. 46+54.0 TO 46+81.6 - 20.0' LT.  
SALVAGE EXISTING GRAVEL  
INSTALL 113 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED
- 33. STA. 47+12.7 - 20.0' RT. TO 47+62.4 - 72.5' RT.  
INSTALL 795 SF OF 8" CONC. FILLET (50' BOC RADIUS)
- 34. STA. 47+65.0 TO 48+05.0 - 20.0' RT. TO 72.5' RT.  
INSTALL 233 SF OF 8" CONC. PAVING

**LEGEND**

- UT — LT — LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L — LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

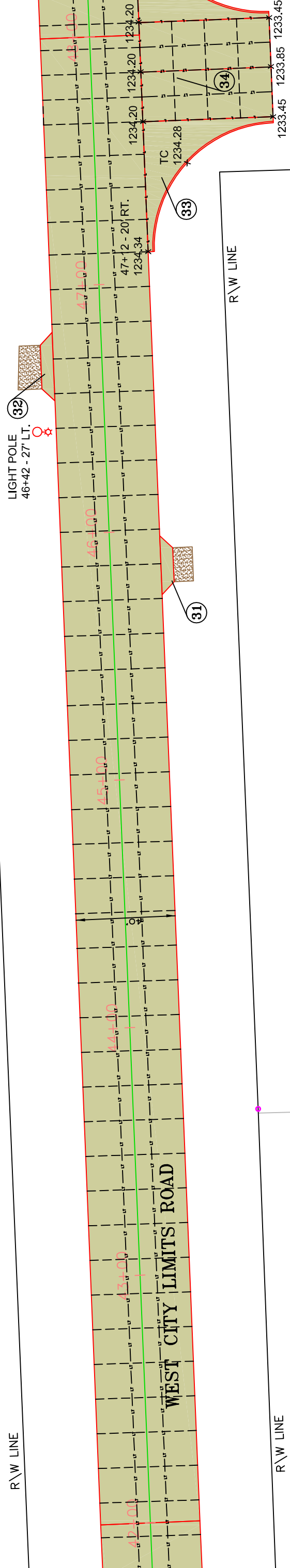


NEW CONCRETE PAVING

**STA. 42+00 TO 48+00**  
INSTALL 2666 SY OF 8" PAVING

**NOTE**

TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.



K.Y.N.T.  
ADDITION

21ST STREET

PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	42	83
8" PAVEMENT LAYOUT		1/23/2018



**LEGEND**

SCALE: 1" = 40'

- LT — LT — LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L — LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)



NEW CONCRETE PAVING

**35. STA. 48+05.0 - 72.5.0' RT. TO 48+57.5 - 20.0' RT.**  
INSTALL 792 SF OF 8" CONC. FILLET (50' BOC RADIUS)

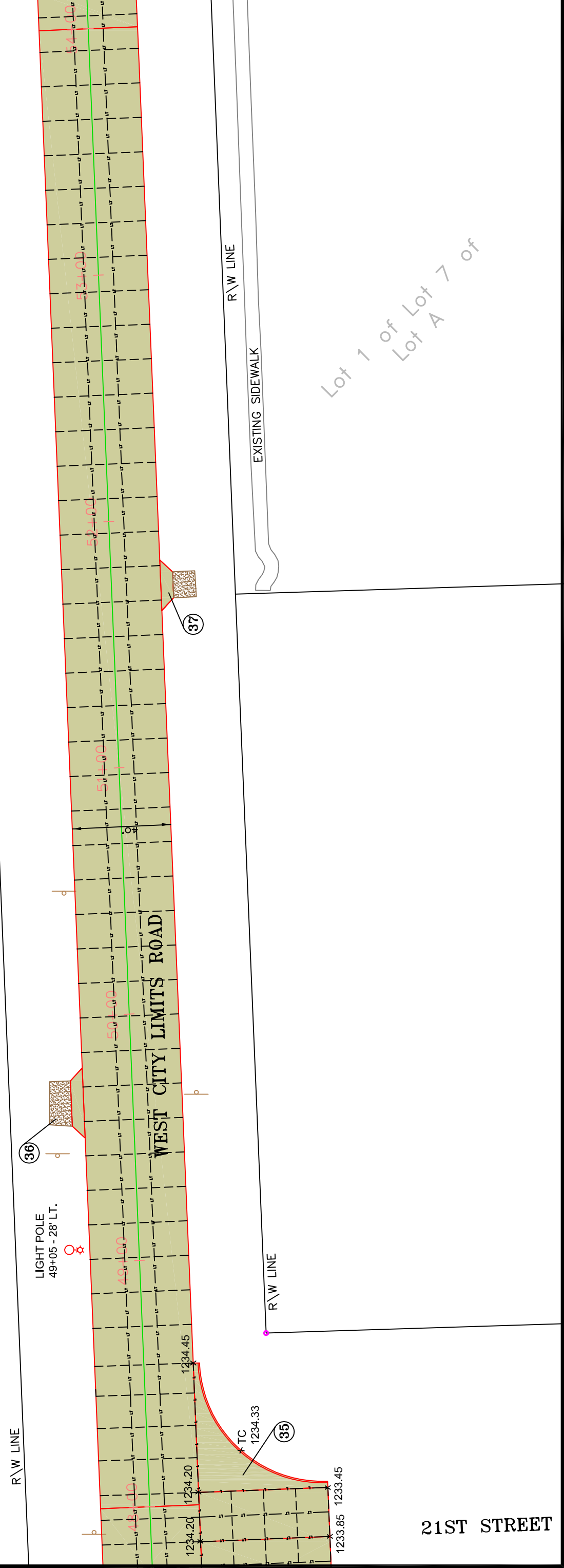
**36. STA. 49+50.5 TO 49+79.0 - 20.0' LT.**  
SALVAGE EXISTING GRAVEL  
INSTALL 117 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED

**37. STA. 51+83.5 TO 51+63.0 - 20.0' RT.**  
SALVAGE EXISTING GRAVEL  
INSTALL 78 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED

**STA. 48+00 TO 54+00**  
INSTALL 2667 SY OF 8" PAVING

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

R\W LINE



21ST STREET

PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	43	83
8" PAVEMENT LAYOUT		1/23/2018



SCALE: 1" = 40'



- 38. STA. 54+15.5 TO 54+71.7 - 20.0' RT.  
INSTALL 400 SF OF 8" CONCRETE APPROACH
- 39. STA. 54+30.6 TO 57+85.9 - 20.0' RT.  
INSTALL 215 SF OF 8" CONCRETE APPROACH

- STA. 54+00 TO 60+00  
INSTALL 2667 SY OF 8" PAVING

**LEGEND**

- LT — LT — LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L — LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.







PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	45	83
8" PAVEMENT LAYOUT		1/23/2018



SCALE: 1" = 40'

**LEGEND**

- LT —— LT —— LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L —— L —— LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

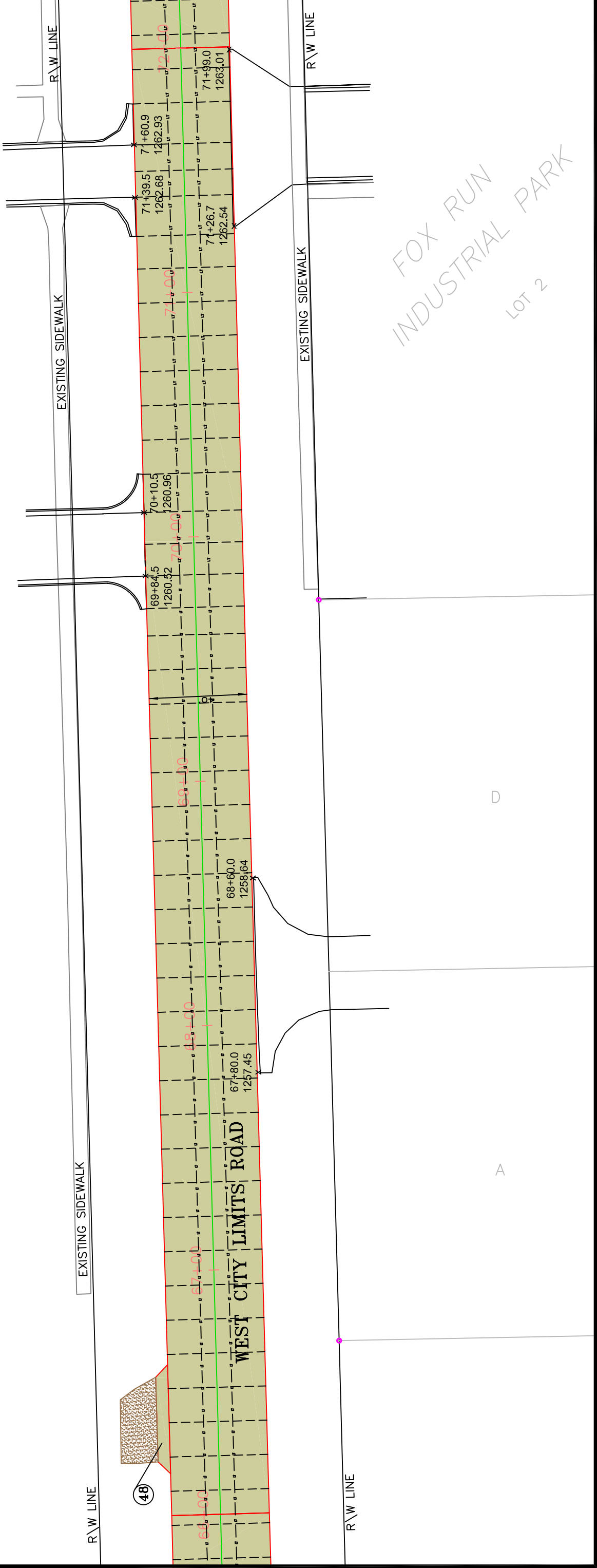


NEW CONCRETE PAVING

**STA. 66+00 TO 72+00**  
INSTALL 2667 SY OF 8" PAVING

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

**48. STA. 66+61.8 TO 66+17.1 - 20.0' LT.**  
SALVAGE EXISTING GRAVEL  
INSTALL 198 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED



PROJECT	2017-042	SHEET NO.	46	TOTAL SHEETS	83
8" PAVEMENT LAYOUT		1/23/2018			

**LEGEND**

- LT — LT ——— LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L ——— LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

SCALE: 1" = 40'



NEW CONCRETE PAVING

**NOTE**

TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

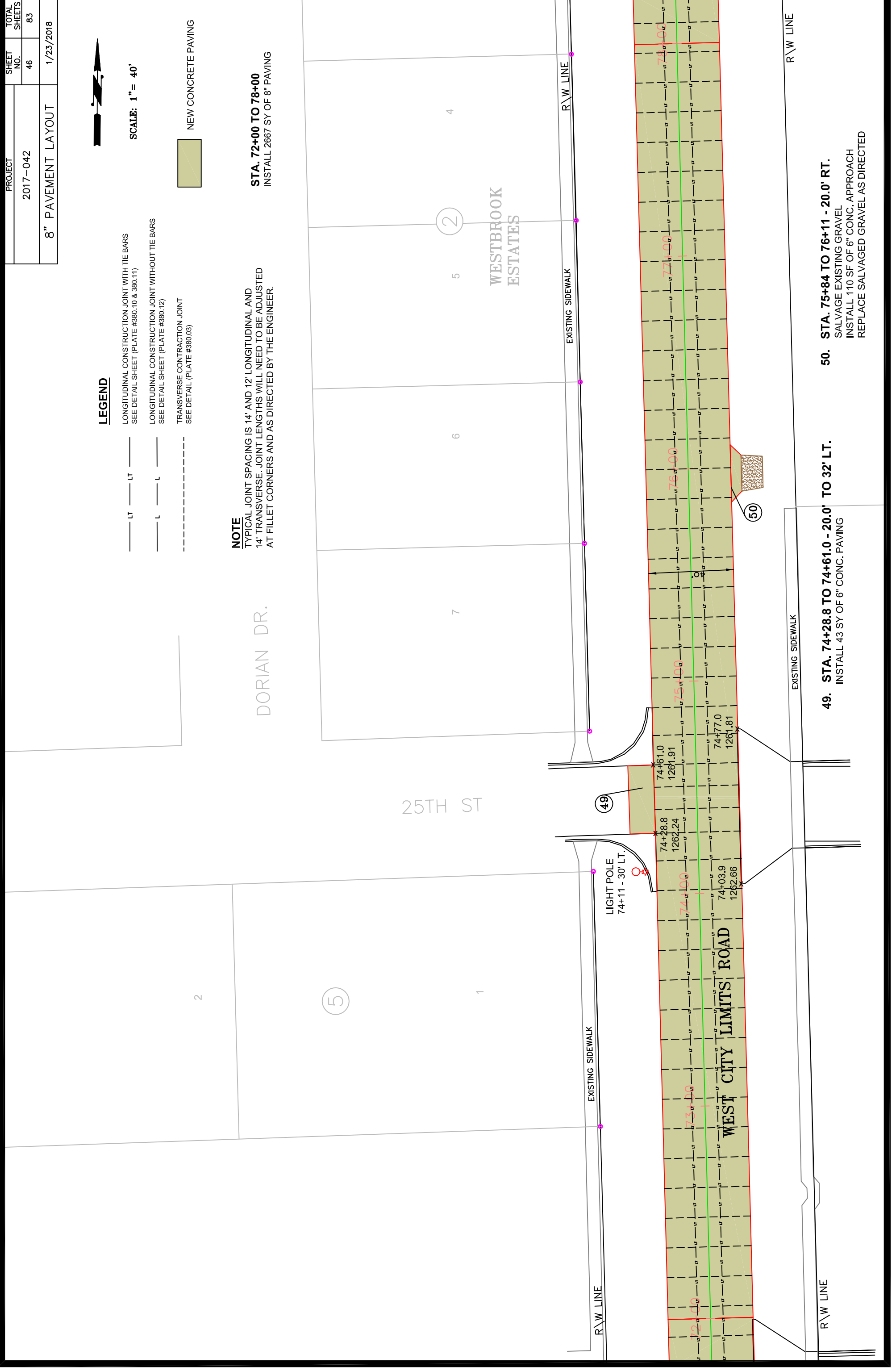
**STA. 72+00 TO 78+00**  
INSTALL 2667 SY OF 8" PAVING

DORIAN DR.

25TH ST

WESTBROOK ESTATES

WEST CITY LIMITS ROAD



**49. STA. 74+28.8 TO 74+61.0 - 20.0' TO 32' LT.**  
INSTALL 43 SY OF 6" CONC. PAVING

**50. STA. 75+84 TO 76+11 - 20.0' RT.**  
SALVAGE EXISTING GRAVEL  
INSTALL 110 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED

PROJECT	2017-042	SHEET NO.	47	TOTAL SHEETS	83
8" PAVEMENT LAYOUT		1/23/2018			

DORIAN DR.

26th STREET

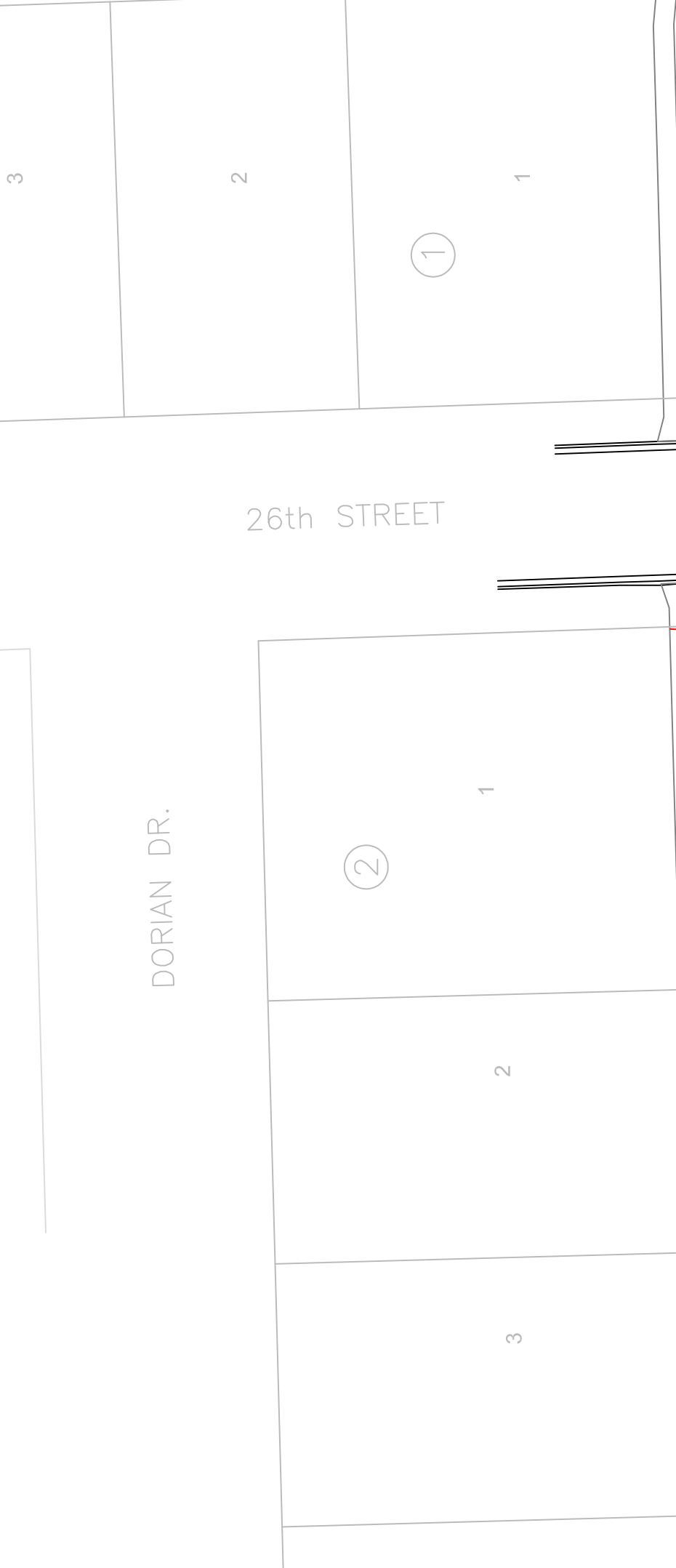


SCALE: 1" = 40'



STA. 78+00 TO 84+00  
INSTALL 2667 SY OF 8" PAVING

LOT 1



LIGHT POLE  
81+19 - 32' LT.

80+68.6  
1251.25

81+04.7  
1250.65

74+00

80+00

82+00

84+00

86+00

88+00

WEST CITY LIMITS ROAD

R\W LINE

R\W LINE

**LEGEND**

- LT —— LT LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L —— L LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

**51. STA. 80+58.7 TO 81+16.4 - 20.0' RT.**  
INSTALL 790 SF OF 6" CONC. APPROACH

**52. STA. 80+68.6 TO 81+04.7 - 20.0' TO 31' LT.**  
INSTALL 44 SY OF 6" CONC. PAVING

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND  
14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED  
AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

PROJECT	2017-042	SHEET NO.	48	TOTAL SHEETS	83
8" PAVEMENT LAYOUT			1/23/2018		



SCALE: 1" = 40'

**LEGEND**

- LT — LT ——— LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L ——— LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)



- 53. STA. 87+41.1 TO 87+66.0 - 20.0' LT.  
INSTALL 150 SF OF 6" CONC. APPROACH
- 54. STA. 87+40.4 TO 87+65.2 - 20.0' RT.  
SALVAGE EXISTING GRAVEL  
INSTALL 100 SF OF 6" CONC. APPROACH  
REPLACE SALVAGED GRAVEL AS DIRECTED
- 56. STA. 88+88.5 TO 89+20.2  
INSTALL 121 SY OF 6" CONC. PAVING
- 55. STA. 88+60.5 TO 88+88.0 - RT.  
INSTALL 272 SF OF 6" CONC. FILLET SECTION
- 57. STA. 89+20.0 TO 89+47.5 - RT.  
INSTALL 278 SF OF 6" CONC. FILLET SECTION

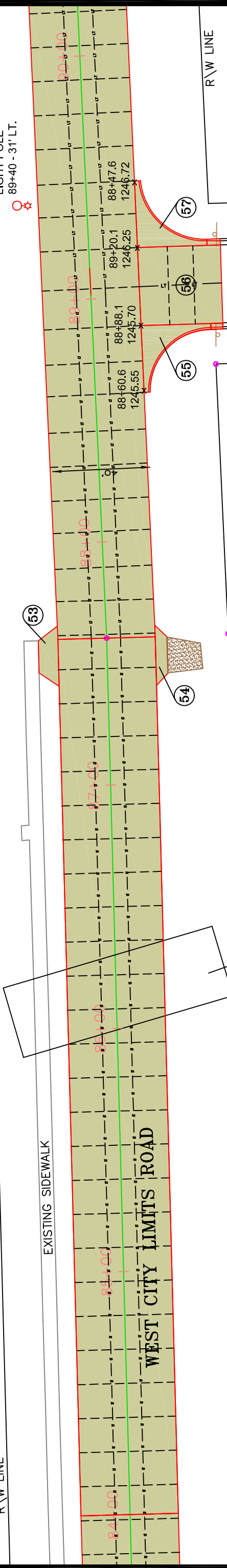
**NOTE**

TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

R\W LINE

R\W LINE

EXISTING SIDEWALK



STA. 87+60.42 - 0.32' RT.

FOUND REBAR  
W1/4 CORNER SECTION 1, T93, R56W

EXISTING  
BOX CULVERT

27TH ST

LIGHT POLE  
89+40 - 31' LT.

R\W LINE

R\W LINE

PROJECT	2017-042	SHEET NO.	49	TOTAL SHEETS	83
8" PAVEMENT LAYOUT		1/23/2018			



SCALE: 1" = 40'



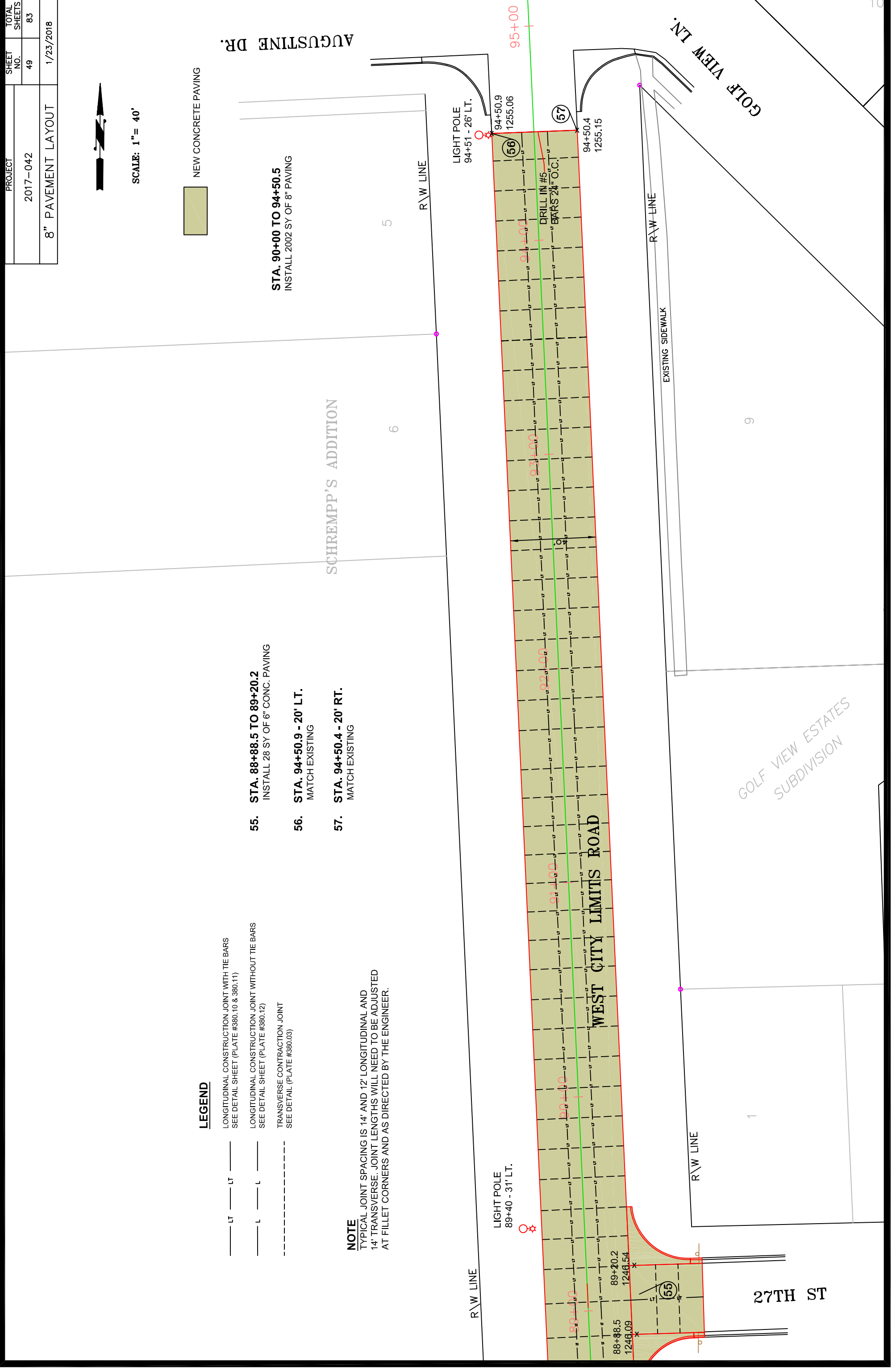
**LEGEND**

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SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L ——— L ——— LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- - - - - TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.

- 55. STA. 88+88.5 TO 89+20.2**  
INSTALL 28 SY OF 6" CONC. PAVING
- 56. STA. 94+50.9 - 20' LT.**  
MATCH EXISTING
- 57. STA. 94+50.4 - 20' RT.**  
MATCH EXISTING

**STA. 90+00 TO 94+50.5**  
INSTALL 2002 SY OF 8" PAVING





PROJECT	2017-042	SHEET NO.	50	TOTAL SHEETS	83
8" PAVEMENT LAYOUT		DATE	1/23/2018		

**LEGEND**

- LT — LT — LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS  
SEE DETAIL SHEET (PLATE #380.10 & 380.11)
- L — L — LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS  
SEE DETAIL SHEET (PLATE #380.12)
- TRANSVERSE CONTRACTION JOINT  
SEE DETAIL (PLATE #380.03)

**NOTE**  
TYPICAL JOINT SPACING IS 14' AND 12' LONGITUDINAL AND 14' TRANSVERSE. JOINT LENGTHS WILL NEED TO BE ADJUSTED AT FILLET CORNERS AND AS DIRECTED BY THE ENGINEER.



SCALE: 1" = 40'

**NOTE:**  
USE WCLR - NORTH ALIGNMENT FROM 30TH TO 31TH STREET



NEW CONCRETE PAVING

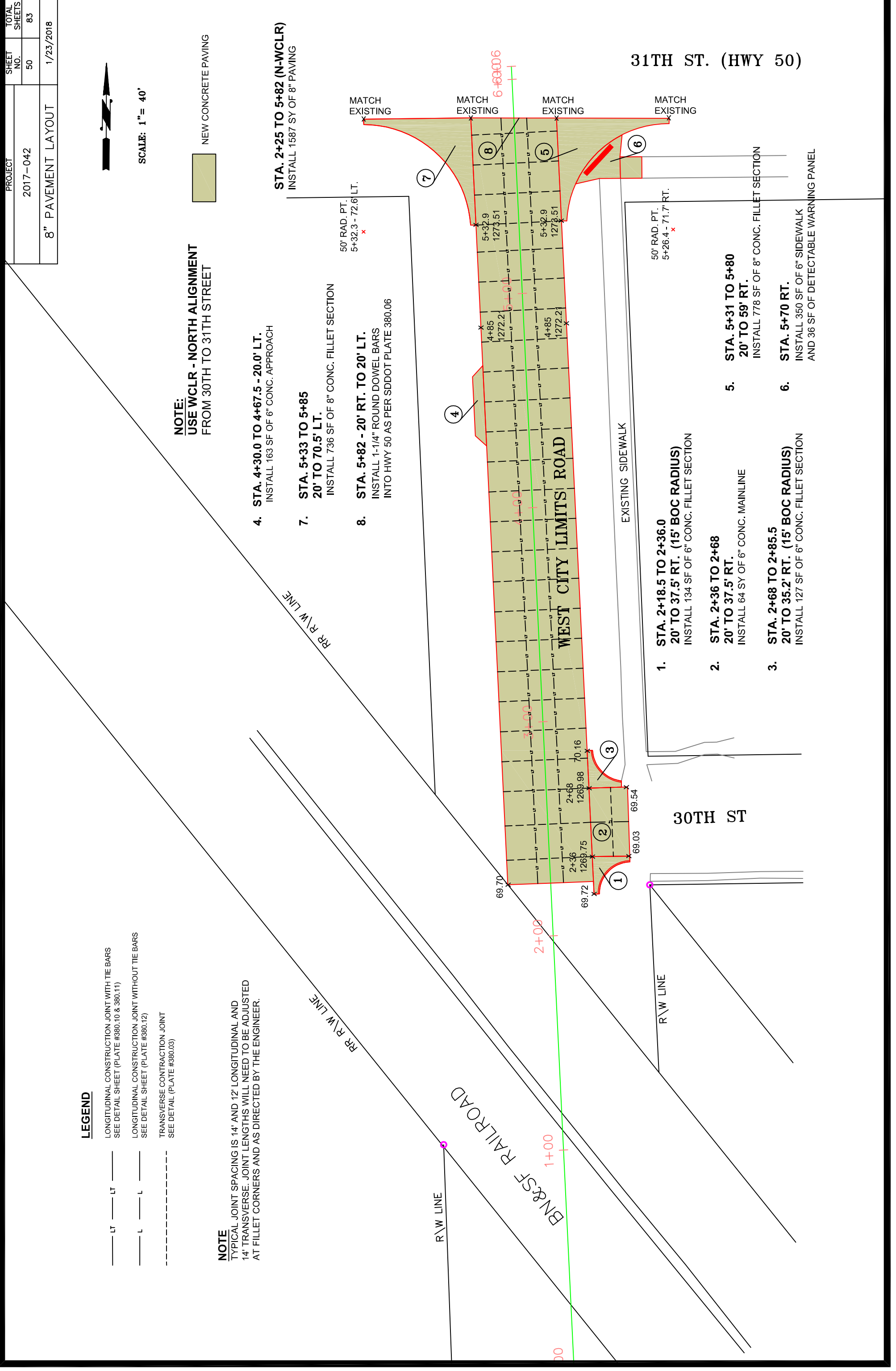
4. **STA. 4+30.0 TO 4+67.5 - 20.0' LT.**  
INSTALL 163 SF OF 6" CONC. APPROACH
7. **STA. 5+33 TO 5+85  
20' TO 70.5' LT.**  
INSTALL 736 SF OF 8" CONC. FILLET SECTION
8. **STA. 5+82 - 20' RT. TO 20' LT.**  
INSTALL 1-1/4" ROUND DOWEL BARS INTO HWY 50 AS PER SDDOT PLATE 380.06

**STA. 2+25 TO 5+82 (N-WCLR)**  
INSTALL 1587 SY OF 8" PAVING

50' RAD. PT.  
5+32.3 - 72.6 LT.

50' RAD. PT.  
5+26.4 - 71.7 RT.

1. **STA. 2+18.5 TO 2+36.0  
20' TO 37.5' RT. (15' BOC RADIUS)**  
INSTALL 134 SF OF 6" CONC. FILLET SECTION
2. **STA. 2+36 TO 2+68  
20' TO 37.5' RT.**  
INSTALL 64 SY OF 6" CONC. MAINLINE
3. **STA. 2+68 TO 2+85.5  
20' TO 35.2' RT. (15' BOC RADIUS)**  
INSTALL 127 SF OF 6" CONC. FILLET SECTION
5. **STA. 5+31 TO 5+80  
20' TO 59' RT.**  
INSTALL 778 SF OF 8" CONC. FILLET SECTION
6. **STA. 5+70 RT.**  
INSTALL 350 SF OF 6" SIDEWALK AND 36 SF OF DETECTABLE WARNING PANEL



31TH ST. (HWY 50)

30TH ST

BNSF RAILROAD

WEST CITY LIMITS ROAD

EXISTING SIDEWALK

RR R/W LINE

R/W LINE

R/W LINE



PROJECT	2017-042	SHEET NO.	51	TOTAL SHEETS	83
UTILITY LAYOUT			1/19/2018		



SCALE: 1" = 30'

4. STA. 61+19.5 - 66.9' LT.  
INSTALL 48" SANITARY SEWER MANHOLE  
RIM ELEVATION = 1246.36  
INVERT ELEVATION = 1231.34

5. STA. 61+19.5 - 67' LT. TO 77' LT.  
INSTALL 10 LF OF 8" PVC SEWER MAIN

6. STA. 60+61.5 - 60.6 RT. TO 61+19.5 - 66.9' LT.  
INSTALL 140 L.F. OF 8" PVC SEWER MAIN @ 0.34% SLOPE

7. STA. 60+86 - 21' RT. TO 60+94 - 79' LT.

1. STA. 60+39-39' LT. TO 61+50-40' LT.  
INSTALL 104 L.F. OF 18" RCP @ 1.0% SLOPE  
& 1 SAFETY END SECTION

2. STA. 61+50-40 LT.  
INSTALL 2'X3' TYPE B INLET  
TC ELEV = 1246.95  
INV. IN = 1243.40  
INV. OUT = 1243.30

3. STA. 60+50-40 LT. TO 61+98-40' LT.  
INSTALL 40 L.F. OF 18" RCP & 1 SAFETY END SECTION

8. STA. 60+36-38 RT. TO 60+84-40' RT.  
INSTALL 40 L.F. OF 18" RCP & 1 SAFETY END SECTION

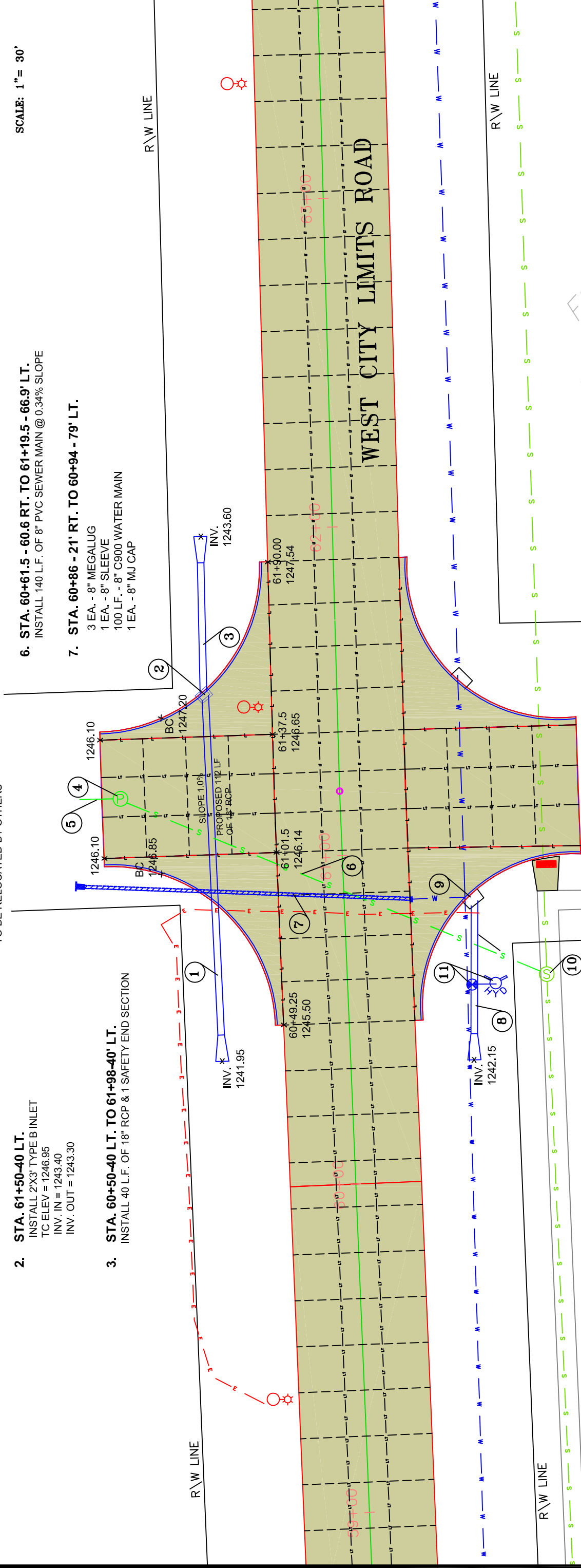
9. STA. 60+85-39' RT.  
EXISTING TYPE S INLET  
TC ELEV = 1246.21  
INV. ELEV. = 1242.65  
REMOVE EXISTING RCP (OUT)

10. EXISTING SANITARY SEWER MANHOLE  
STA. 60+61.5-60.6 RT.  
RIM ELEVATION = 1246.36  
INVERT ELEVATION = 1230.86

11. INSTALL 2' RISER SECTION TO EXISTING VALVE BOX AND 1' SECTION TO HYDRANT

NOTE:  
POWER POLE ANCHOR AT (60+84 - 42' LT.) TO BE RELOCATED BY OTHERS

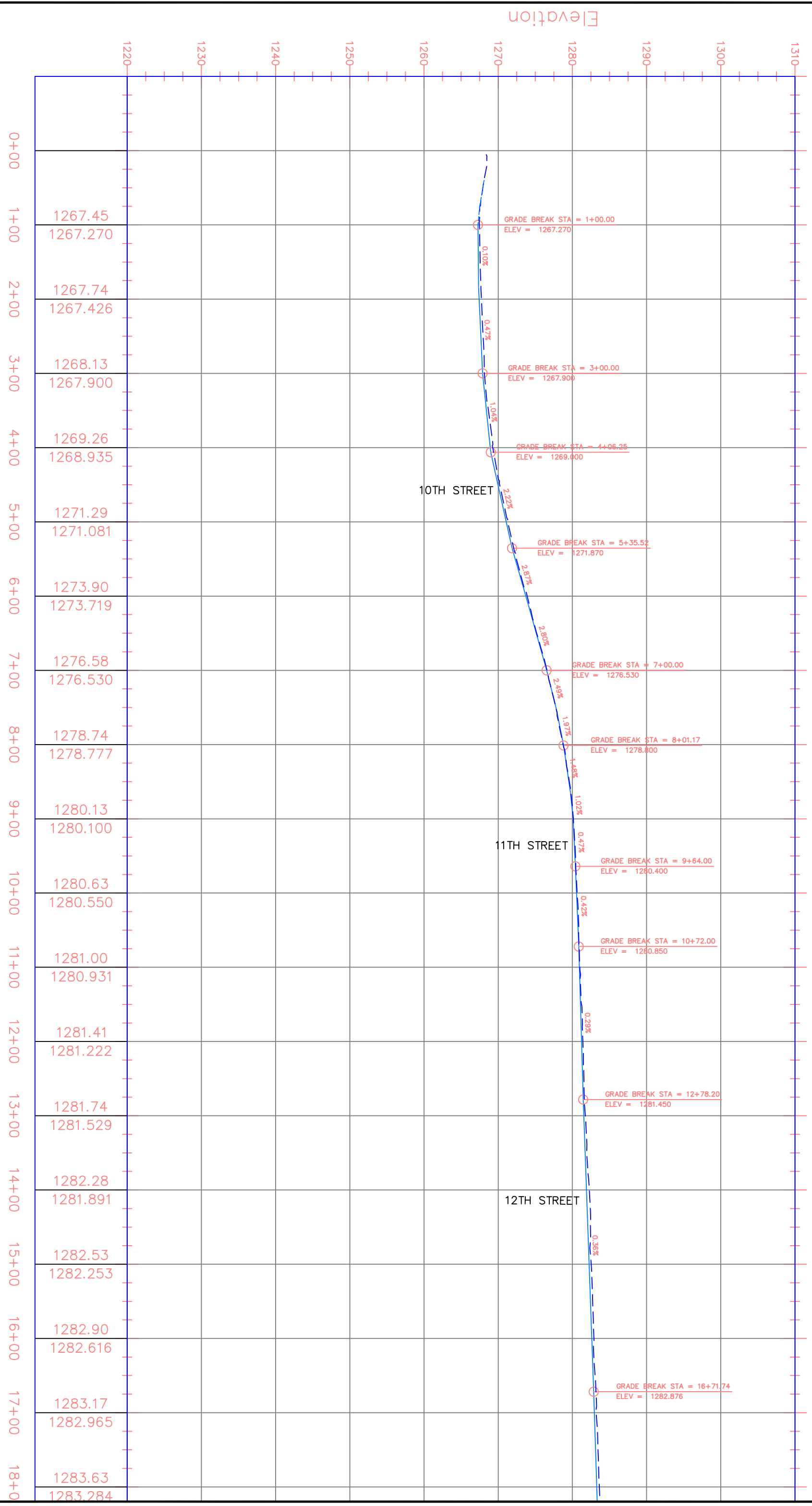
NOTE:  
SEE SHEET 55 FOR PROFILE VIEW



FOX RUN  
INDUSTRIAL PARK  
LOT 1

23RD ST

WEST CITY LIMITS ROAD

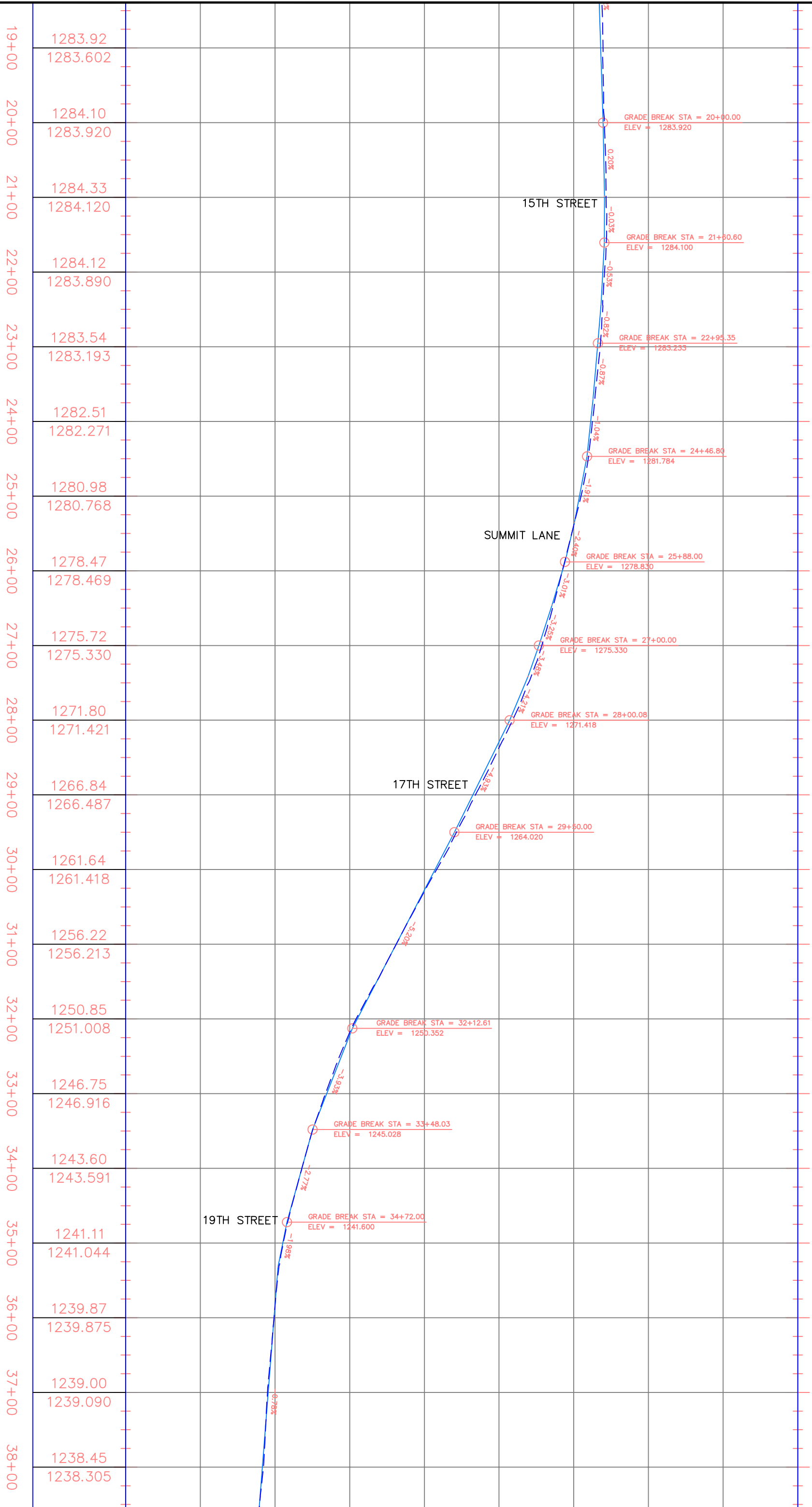


10TH STREET

11TH STREET

12TH STREET

PROJECT		TOTAL	
2017-042		SHEET	SHEETS
PROFILE 1		52	83
		1/19/2018	



PROJECT		TOTAL	
2017-042		SHEET	SHEETS
PROFILE 2		53	83
		1/19/2018	

# WCLR PROFILE

39+00 1237.53  
 1237.542  
 40+00 1236.92  
 1236.998  
 41+00 1236.45  
 1236.453  
 42+00 1235.95  
 1235.908  
 43+00 1235.42  
 1235.423  
 44+00 1235.25  
 1235.114  
 45+00 1234.86  
 1234.891  
 46+00 1234.78  
 1234.820  
 47+00 1234.63  
 1234.749  
 48+00 1234.60  
 1234.624  
 49+00 1234.83  
 1234.818  
 50+00 1235.10  
 1235.190  
 51+00 1235.59  
 1235.562  
 52+00 1236.18  
 1236.048  
 53+00 1236.93  
 1236.931  
 54+00 1237.91  
 1237.813  
 55+00 1239.01  
 1238.992  
 56+00 1240.30  
 1240.225  
 57+00 1241.45  
 1241.458  
 58+00 1242.90  
 1242.708

21ST STREET

EXISTING 5' CMP CULVERTS

GRADE BREAK STA = 38+90.87  
ELEV = 1237.592

-0.54%

GRADE BREAK STA = 42+74.92  
ELEV = 1235.500

-0.31%

GRADE BREAK STA = 44+63.90  
ELEV = 1234.917

-0.07%

GRADE BREAK STA = 47+12.00  
ELEV = 1234.740

-0.19%

0.15%

GRADE BREAK STA = 48+81.64  
ELEV = 1234.750

0.37%

GRADE BREAK STA = 51+77.54  
ELEV = 1235.850

0.88%

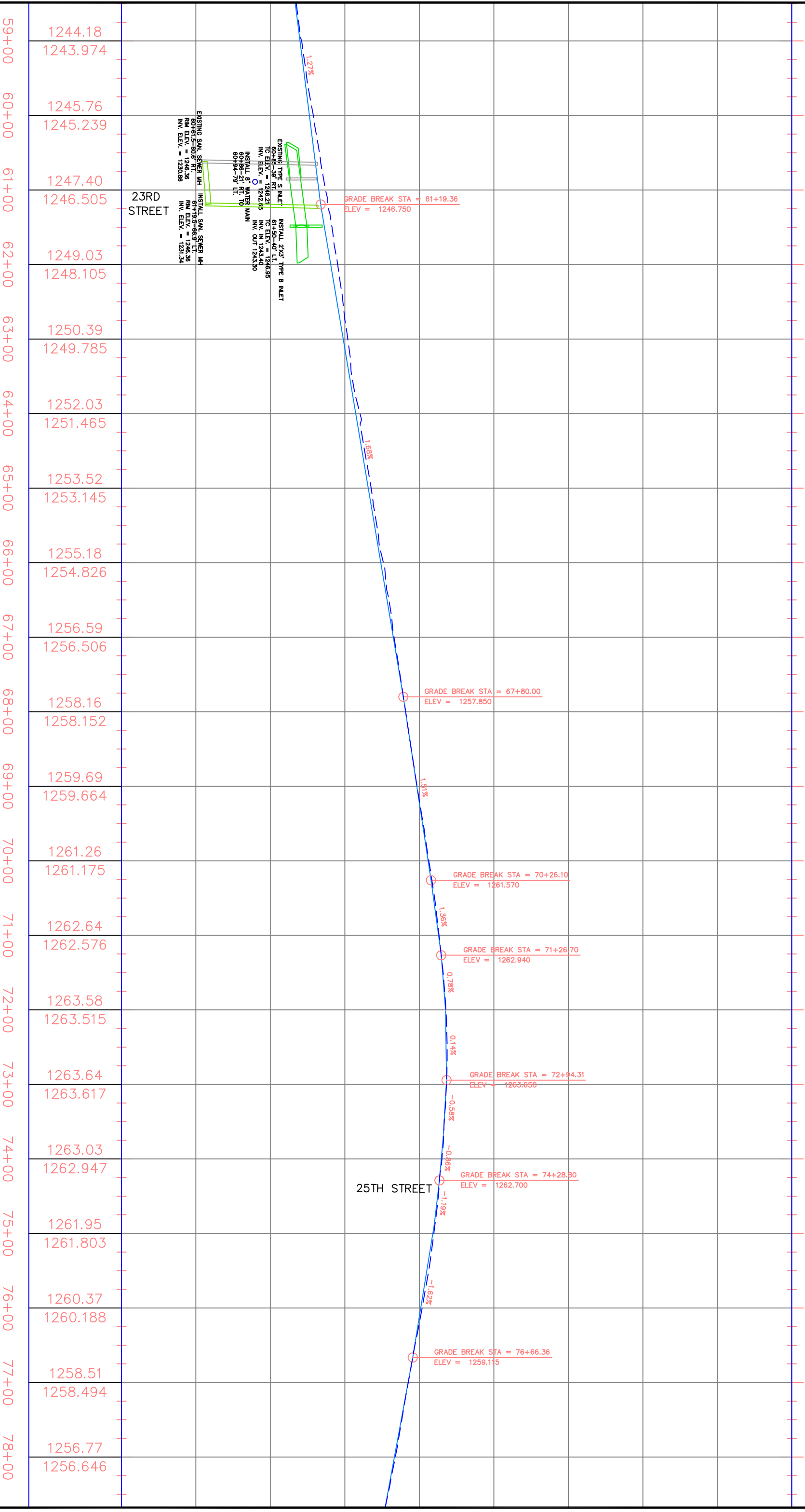
GRADE BREAK STA = 54+15.50  
ELEV = 1237.950

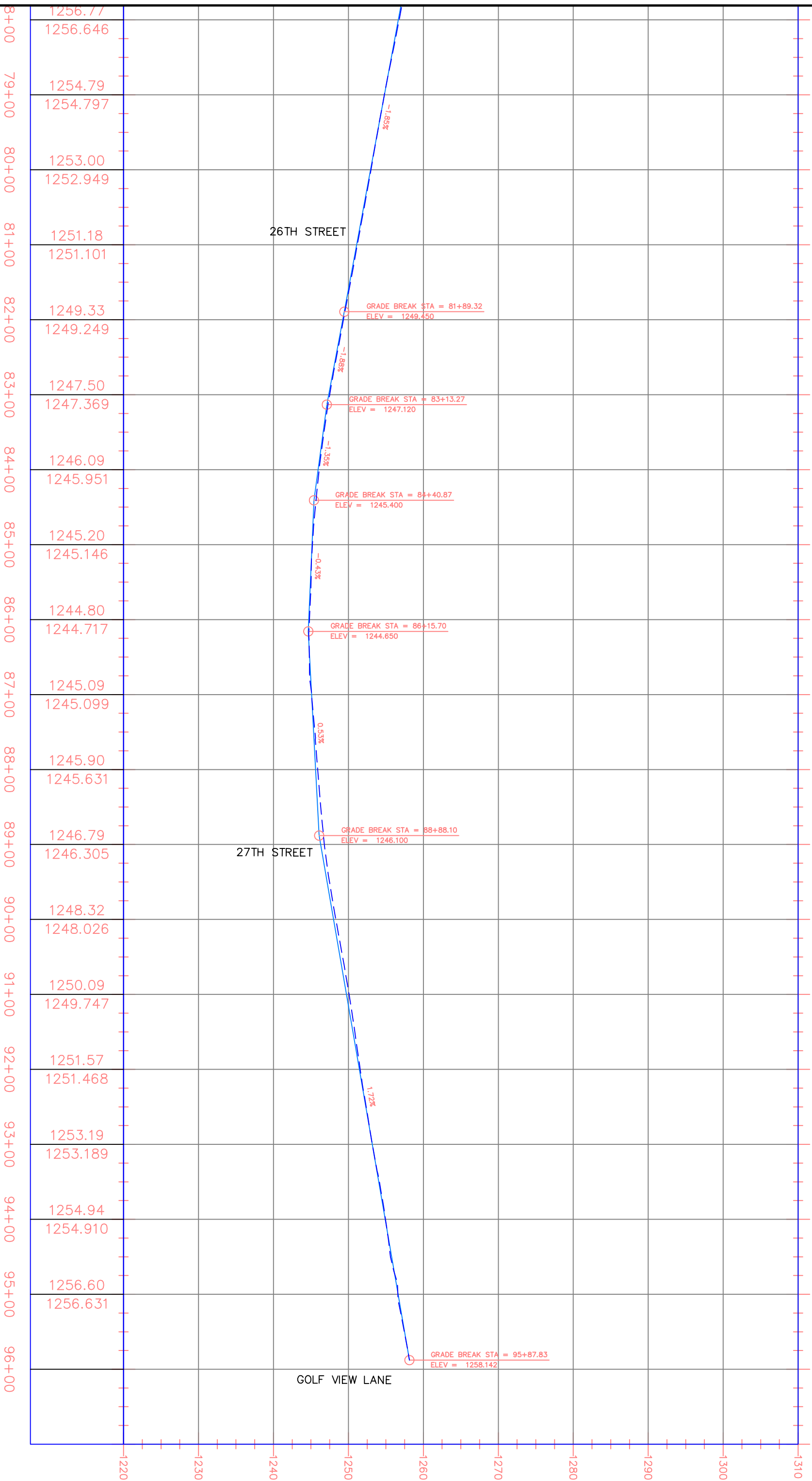
1.23%

GRADE BREAK STA = 57+48.00  
ELEV = 1242.050

PROJECT		TOTAL	
2017-042		SHEET NO.	SHEETS
PROFILE 3		54	83
		1/19/2018	

PROJECT		SHEET TOTAL	
2017-042		55	83
PROFILE 4		1/19/2018	

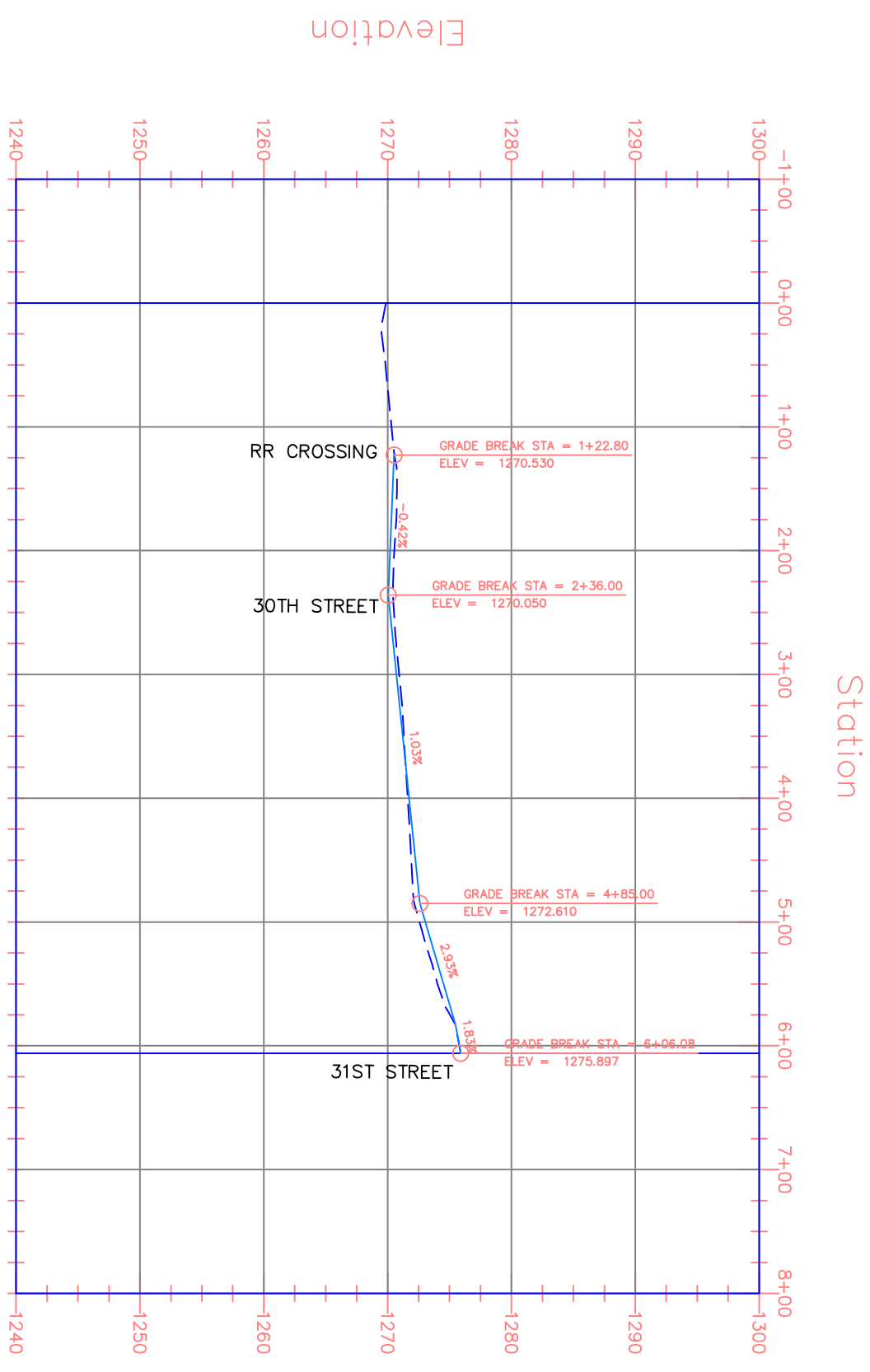




PROJECT		TOTAL	
2017-042		SHEET	SHEETS
PROFILE 5		56	83
		1/19/2018	

PROJECT		SHEET TOTAL	
2017-042		NO.	SHEETS
PROFILE 5		57	83
		1/10/2018	

WCLR PROFILE

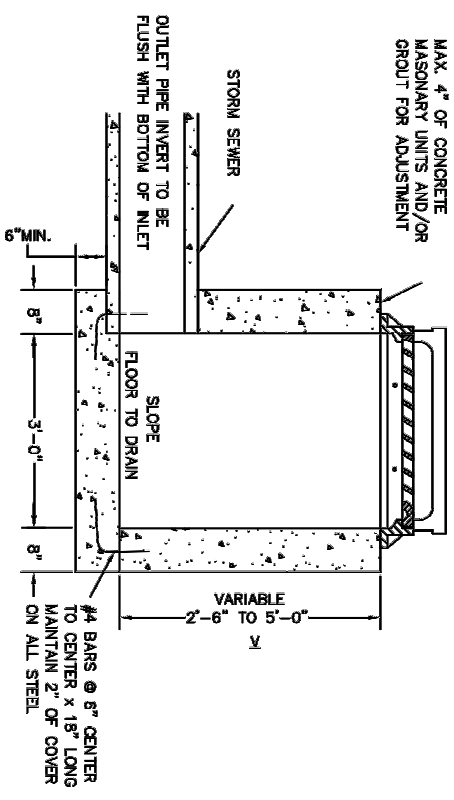
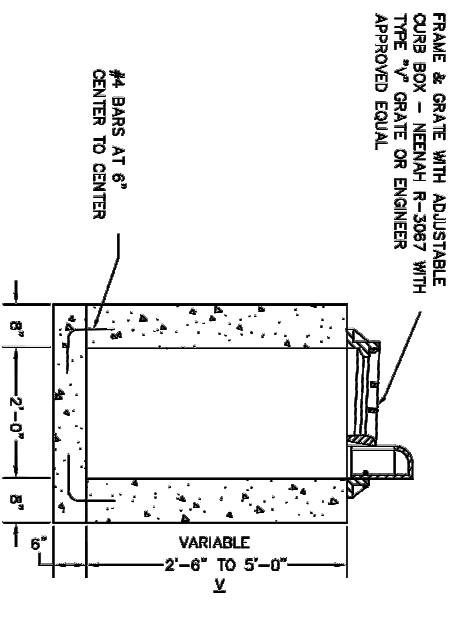


Station	Elevation
0+00	1269.86
1+00	1270.31
2+00	1270.54
3+00	1270.94
4+00	1271.61
5+00	1272.57
6+00	1275.79
7+00	1275.786



ESTIMATED QUANTITIES			
ITEM	UNIT	CONSTANT	VARIABLE
* CLASS M6 CONCRETE	CYDS	0.27	0.32V
REINFORCEMENT-CONC. MASONRY	LBS	28	---

\* CONSTANT SHALL BE REDUCED FOR THE APPROPRIATE PIPE OR COMBINATION OF PIPES. THUS: 12" DIA.=0.03 C.Y., 15" DIA.=0.04 C.Y., 18" DIA.=0.05 C.Y., 24" DIA.=0.09 C.Y.



SPECIFICATION REFERENCE NO. 460

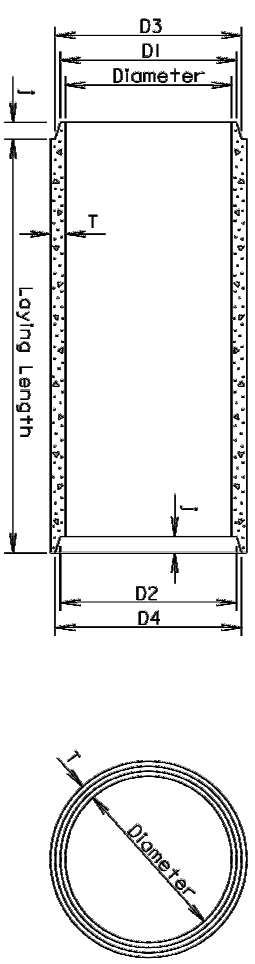
CITY OF SIOUX FALLS ENGINEERING DIVISION STANDARD STORM SEWER INLET TYPE BI

REVISID: DECEMBER 1995

PLATE NUMBER 460.07

**TOLERANCES IN DIMENSIONS**

Diameters  $\pm 1.5\%$  for 24" Dia. or less and  $\pm 1\%$  or  $\frac{3}{8}$ " whichever is more for 27" Dia. or greater. Diameters at joints:  $\pm 3/16$ " for 30" Dia. or less and  $\pm 1/4$ " for 36" or greater. Length of Joint (L)  $\pm 1/4$ ". Wall thickness (T) not less than design T by more than 5% or  $\frac{3}{8}$ ", whichever is greater. Laying length shall not under-run by more than  $1/2$ ".



LONGITUDINAL SECTION

END VIEW

**GENERAL NOTES:**

Construction of R.C.P. shall conform to the requirements of Section 990 of the Standard Specifications for Roads and Bridges.

Not more than 2 four foot sections shall be permitted near the ends of any culvert. Four foot lengths shall be used only to secure the required length of culvert.

Diam. (In.)	Approx. Wt./Ft. (lb.)	T (In.)	J (In.)	D1 (In.)	D2 (In.)	D3 (In.)	D4 (In.)
12	92	2	1 3/4	13 3/4	13 3/8	13 3/8	14 1/4
15	127	2 1/4	2	16 1/2	16 1/8	17 1/4	17 5/8
18	168	2 1/2	2 1/4	19 5/8	20	20 3/8	20 3/4
21	214	2 3/4	2 1/2	22 7/8	23 1/4	23 3/4	24 1/8
24	265	3	2 3/4	26	26 3/8	27	27 3/8
27	322	3 1/4	3	29 1/4	29 3/8	30 1/4	30 5/8
30	384	3 1/2	3 1/4	32 3/8	32 3/4	33 1/2	33 3/8
36	524	4	3 3/4	38 3/4	39 1/4	40	40 1/2
42	685	4 1/2	4	45 1/8	45 3/8	46 1/2	47
48	867	5	4 1/2	51 1/2	52	53	53 1/2
54	1070	5 1/2	4 1/2	57 1/8	58 3/8	59 3/8	59 1/8
60	1296	6	5	64 1/4	64 3/4	66	66 1/2
66	1542	6 1/2	5 1/2	70 3/8	71 1/8	72 1/2	73
72	1810	7	6	77 1/2	77 1/2	79	79 1/2
78	2098	7 1/2	6 1/2	83 3/8	83 3/8	85 3/8	86 1/8
84	2410	8	7	89 3/4	90 1/4	92 1/8	92 5/8
90	2740	8 1/2	7	95 3/4	96 1/4	98 1/8	98 5/8
96	2950	9	7	102 1/8	102 3/8	104 1/2	105
102	3075	9 1/2	7 1/2	109	109 1/2	111 1/2	112
108	3870	10	7 1/2	115 1/2	116	118	118 1/2

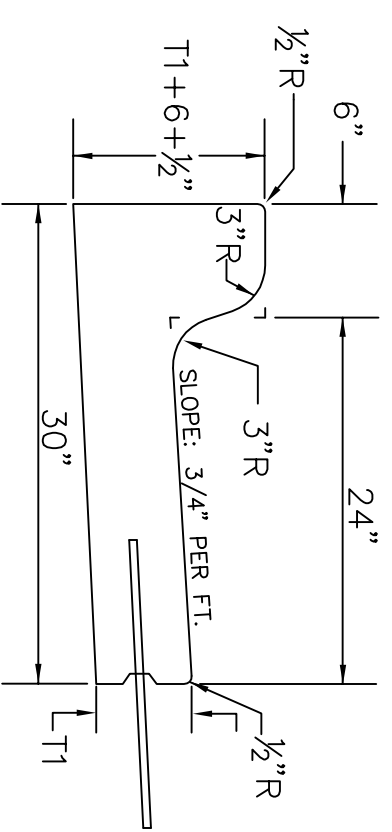
Published Date: 1st Oct. 2012

REINFORCED CONCRETE PIPE

PLATE NUMBER 450.OI

March 31, 2000

PROJECT	2017-042	SHEET NO.	59	TOTAL SHEETS	83
LONGITUDINAL JOINT DETAIL		1/19/2018			

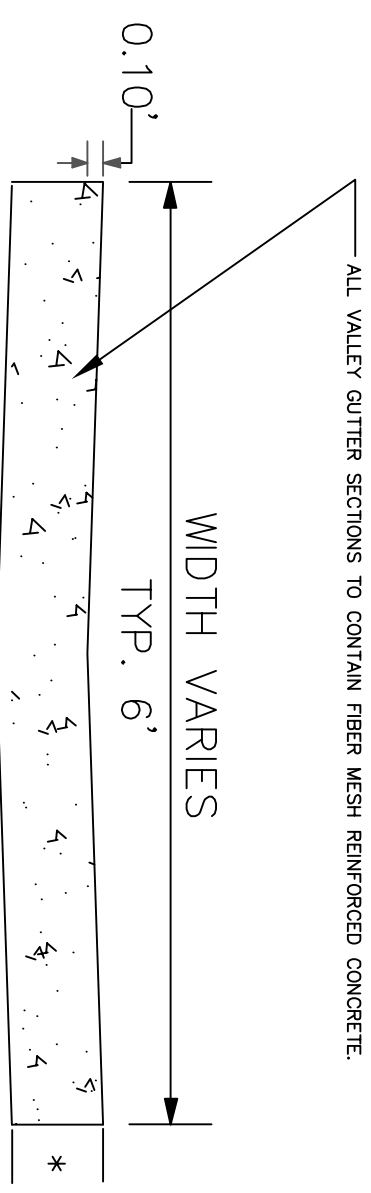


30" CONCRETE CURB AND GUTTER  
N.T.S.

1/2" Preformed Expansion Joint Fillers shall be placed, Transversely in the

- 1) Curb & Gutter return Radius shall be parallel to the project centerline.
- 2) At each junction with existing Concrete Curb or Concrete Curb & Gutter
- 3) At each junction with existing sidewalk, to the depth of the sidewalk.
- 4) At a maximum of 195 L.F. apart, measured along the face of the

TYPE	T1 INCHES	CU. YD PER LIN. FT.
B66	6"	0.055
B67	7"	0.063
B68	8"	0.071
B68.5	8.5"	0.074
B69	9"	0.078
B69.5	9.5"	0.082
B610	10"	0.086
B610.5	10.5"	0.090
B611	11"	0.094
B611.5	11.5"	0.098
B612	12.0"	0.102



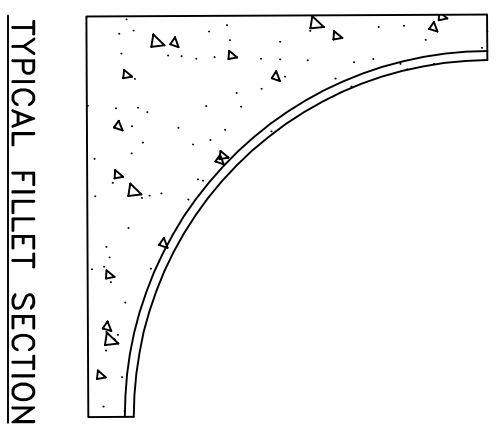
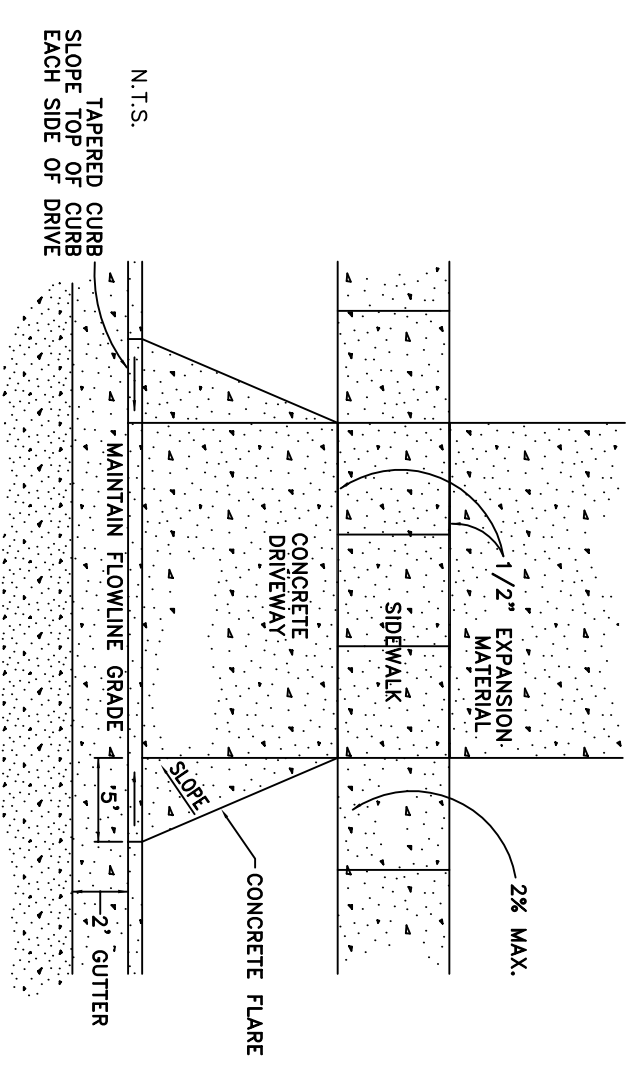
TYPICAL VALLEY GUTTER DETAIL  
N.T.S.

\* ALL VALLEY GUTTER SECTIONS TO A MINIMUM OF 6" OR THE SAME THICKNESS AS THE ADJOINING CONCRETE PAVING.

1/2" Preformed Expansion Joint Filler shall be placed, Longitudinally, along the backface of the Curb, to the depth of the sidewalk, where such backface of Curb is adjacent to an existing Concrete Sidewalk.

Weakened Plane Joints shall be constructed at Approx. 10' intervals. The joints shall be constructed to a minimum depth of one inch by scoring with a tool which coincide with pavement joints leave the corners rounded and insure a free movement of the Concrete at the joint.

DETAIL FOR CONCRETE FLARES AND TAPERED CURB AT DRIVEWAYS  
N.T.S.

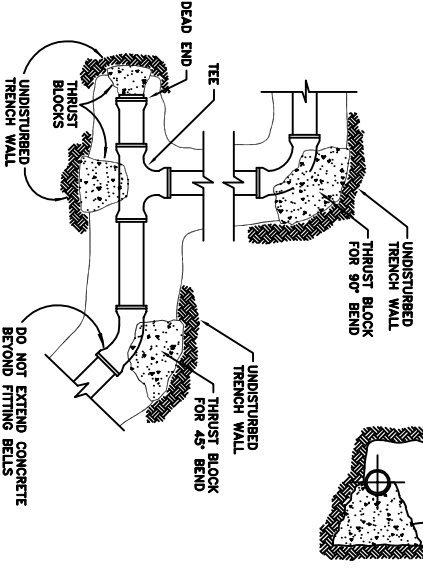


TYPICAL FILLET SECTION  
N.T.S.

All Fillet sections to contain fiber mesh reinforced concrete.

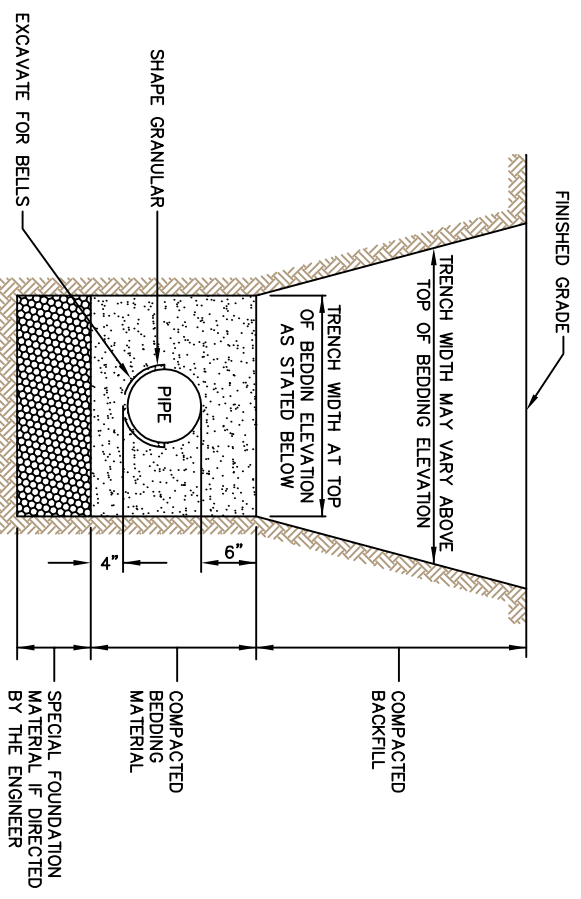
PROJECT NO.	2017-042	SHEET NO.	60	TOTAL SHEETS	83
Trench & Water Main			1/19/2018		

NOTE: THRUST BLOCKS ARE REQUIRED AT ALL BENDS IN ALL DIRECTIONS. TEES, ALL BENDS AND FITTINGS SHALL BE CAST IN SOLID UNDISTURBED TRENCH WALL, UNLESS OTHERWISE NOTED BY THE ENGINEER. BREAK BOND BETWEEN POURED CONCRETE AT ALL BENDS AND FITTINGS. THE TRENCH WALL SHALL BE BETWEEN 1 AND 2 TIMES THE HEIGHT OF BEARING SURFACE.



SCHEDULE OF BRACING REQUIRED FOR C.I.P. FITTINGS - BEARING AREA - SQ. FT.

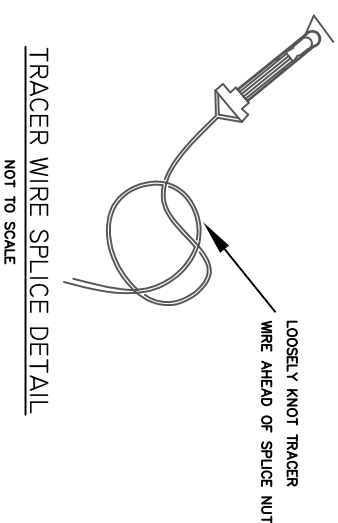
PIPE SIZE	DEAD END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
12"	11 1/2	16	9	4 1/2	2 1/2
10"	8	11	6	3	1 1/2
8"	5	7	4	2	1
6"	3	4	2	1	1/2
4"	1 1/2	1 1/2	1	1/2	-



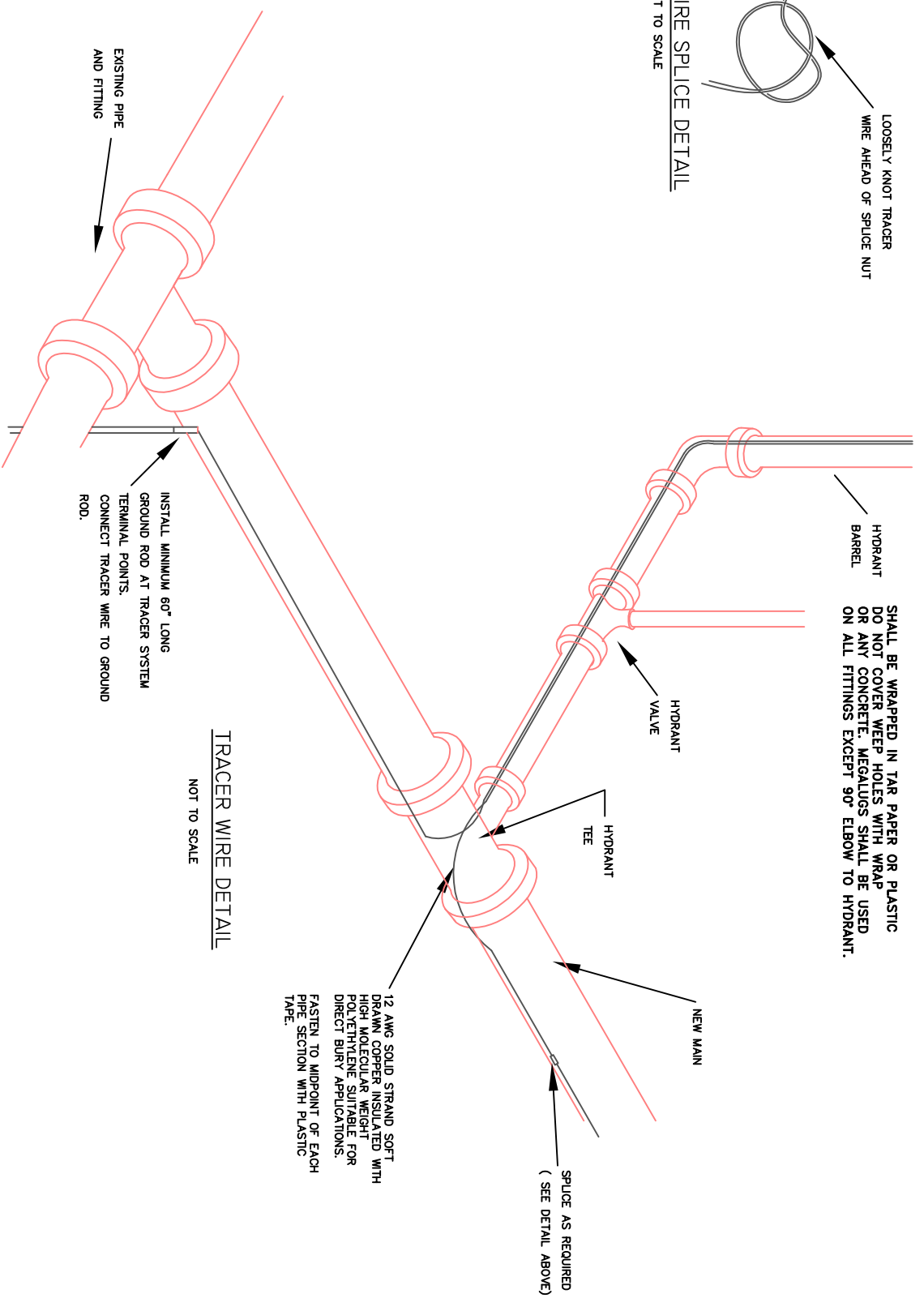
WHERE TRENCH WALLS BELOW THE TOP OF THE BEDDING MATERIAL ARE VERTICAL AND FREE-STANDING, MINIMUM TRENCH WIDTHS ARE AS FOLLOWS:

PIPE SIZE	MINIMUM TRENCH WIDTH
8"	24"
10"	26"
12"	28"
15"	32"
18"	36"
21"	40"
24"	43"

**DETAIL OF BEDDING & BACKFILL**



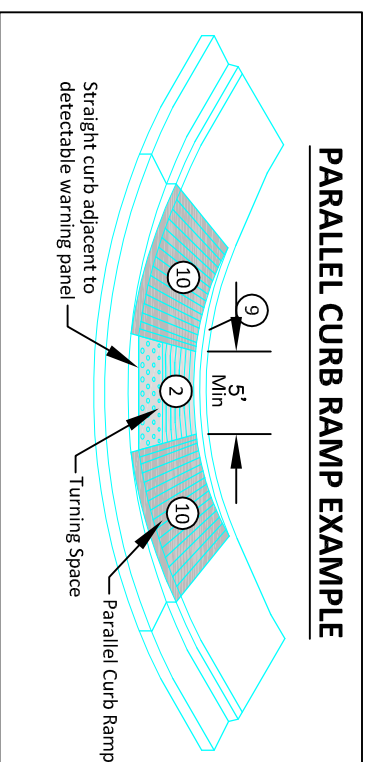
SHALL BE WRAPPED IN TAR PAPER OR PLASTIC DO NOT COVER WEEP HOLES WITH WRAP OR ANY CONCRETE. MEGALUGS SHALL BE USED ON ALL FITTINGS EXCEPT 90° ELBOW TO HYDRANT.



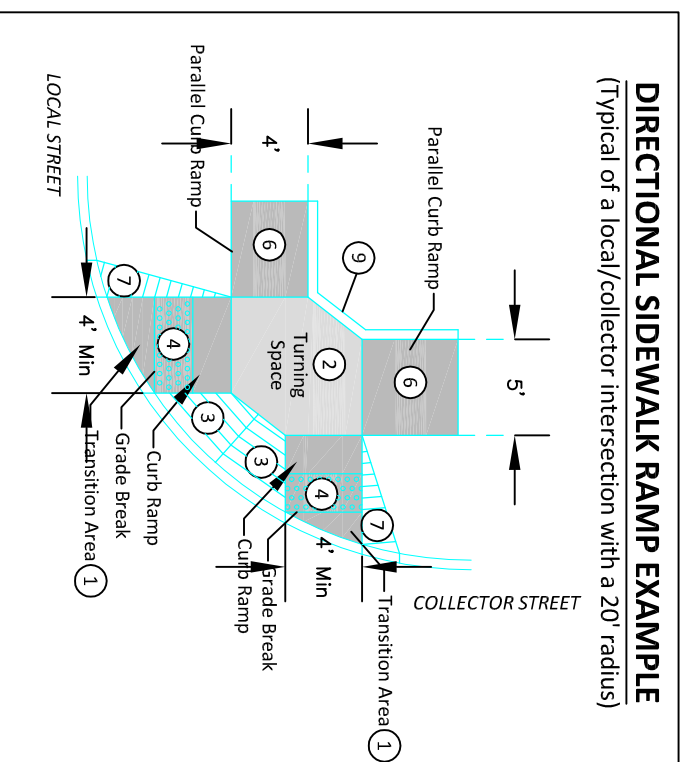
**TRACER WIRE DETAIL NOT TO SCALE**

**DETAIL OF BEDDING & BACKFILL**

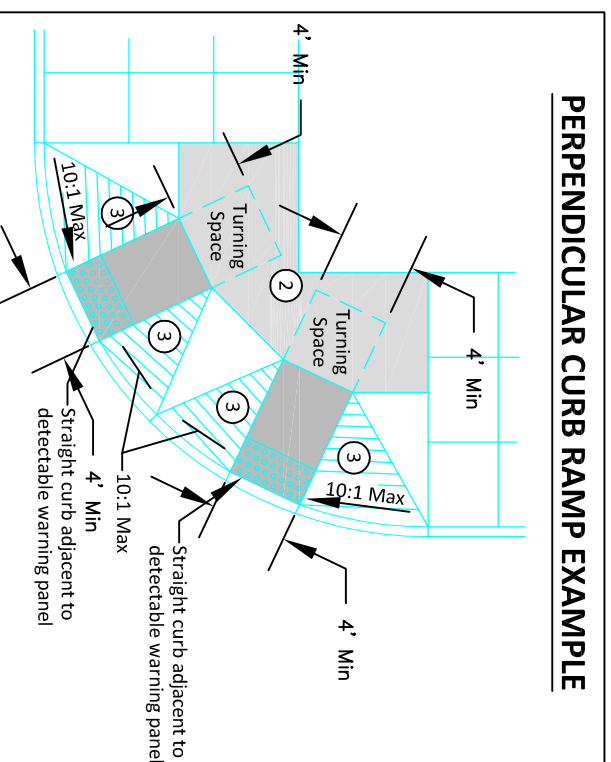
PROJECT	2017-042	SHEET NO.	61	TOTAL SHEETS	83
SIDEWALK DETAIL		1/19/2018			



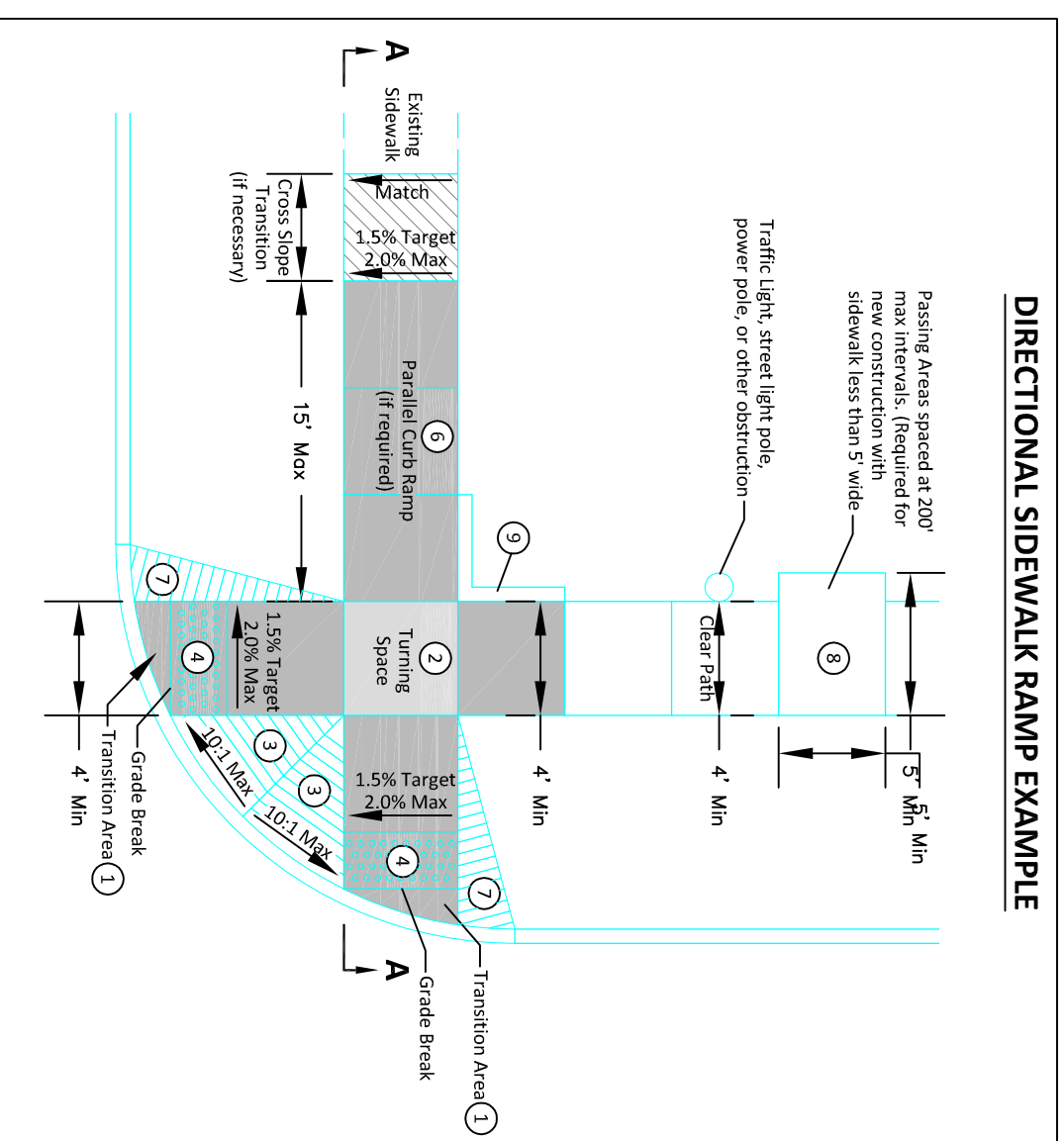
**PARALLEL CURB RAMP EXAMPLE**



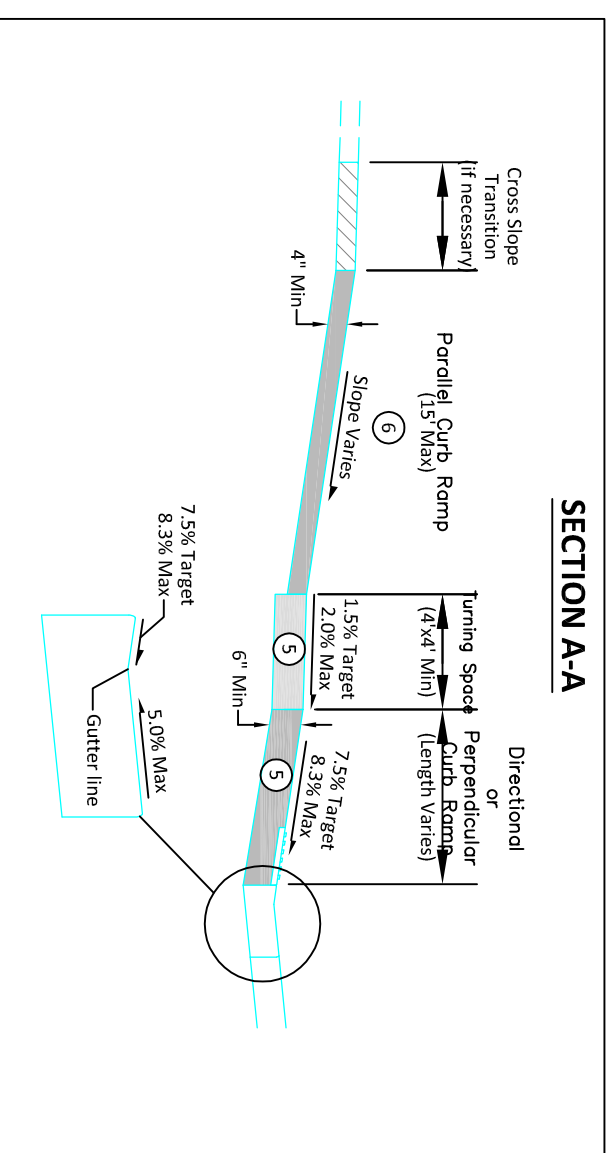
**DIRECTIONAL SIDEWALK RAMP EXAMPLE**  
(Typical of a local/collector intersection with a 20' radius)



**PERPENDICULAR CURB RAMP EXAMPLE**



**DIRECTIONAL SIDEWALK RAMP EXAMPLE**



**SECTION A-A**

**NOTES:**

1. Transition from the 2% maximum cross slope on the ramp and the pedestrian street crossing grade in this area. The maximum cross slope on the pedestrian street crossing (including the filter or curb and gutter) is 2% on stop or yield controlled legs and 5% on uncontrolled or signalized legs.
2. Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6" curb or building), the turning space shall be 4 foot by 5 foot minimum. The 5 foot dimension shall be in the direction of the ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the direction of travel.
3. Areas where the pedestrian circulation path crosses a curb ramp are considered flare sides. The maximum slope of the flare sides is 10%. Full curb height may not be able to be reestablished on flare slopes but as much curb height as possible should be reestablished.
4. Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares. Orient domes in the direction of pedestrian travel unless otherwise stated in plans.
5. The concrete in the turning space, curb ramp, and flare slope areas shall be a minimum thickness of 6 inches.
6. If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 8.3% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4 inches.
7. Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.
8. To accommodate the passing area requirement, sidewalks must be a minimum of 5 foot wide through the driveway approach. See plate 651.01 for additional information.
9. Depending on the conditions, a curb up to 6 inches high may need to be installed on the back of the turning space or adjoining sidewalk.
10. The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross slope target is 1.5% with a maximum cross slope of 2.0%.

**GENERAL NOTES:**

The turning space, curb ramp, and detectable warning panel area will be paid for at the contract unit price for the corresponding concrete sidewalk bid item.

The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.

Revised: December 2016

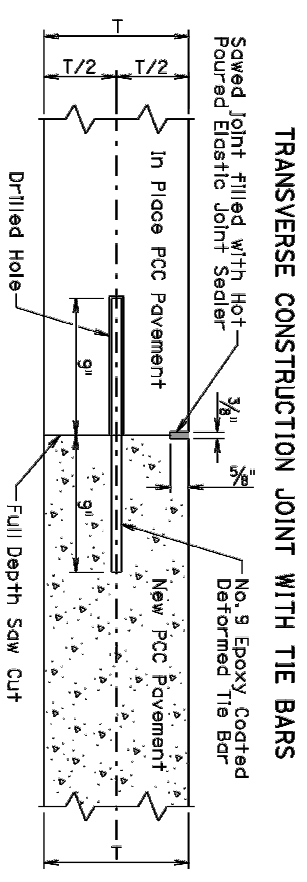


CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**ACCESSIBLE CURB RAMPS**

SPECIFICATION  
REFERENCE  
NO. 650

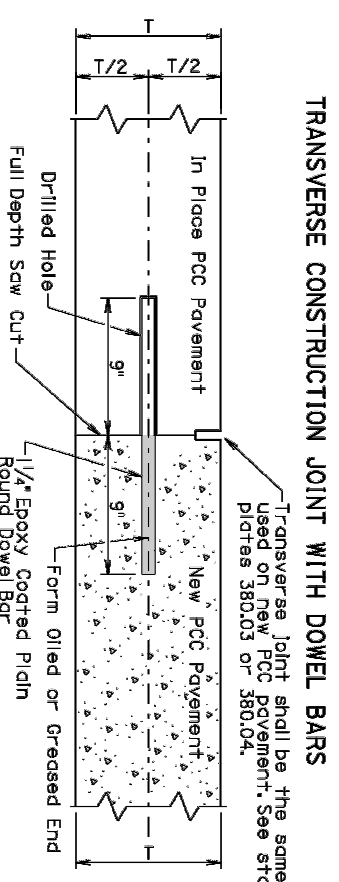
PLATE  
NUMBER  
651.02

PROJECT NO.	2017-042	SHEET NO.	62	TOTAL SHEETS	83
TRANSVERSE JOINT DETAIL			1/19/2018		



**TRANSVERSE CONSTRUCTION JOINT WITH TIE BARS**

**GENERAL NOTES:**  
 This detail shall be used when the transverse joint is less than 15 feet from the existing transverse contraction joint.  
 The tie bars shall be embedded a minimum depth of 9 inches into the in place PCC pavement and anchored with an epoxy resin adhesive.  
 No. 9 epoxy coated deformed tie bars shall be spaced 18 inches center to center and shall be a minimum of 3 inches and a maximum of 9 inches from the pavement edges.  
 The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on a previous project.

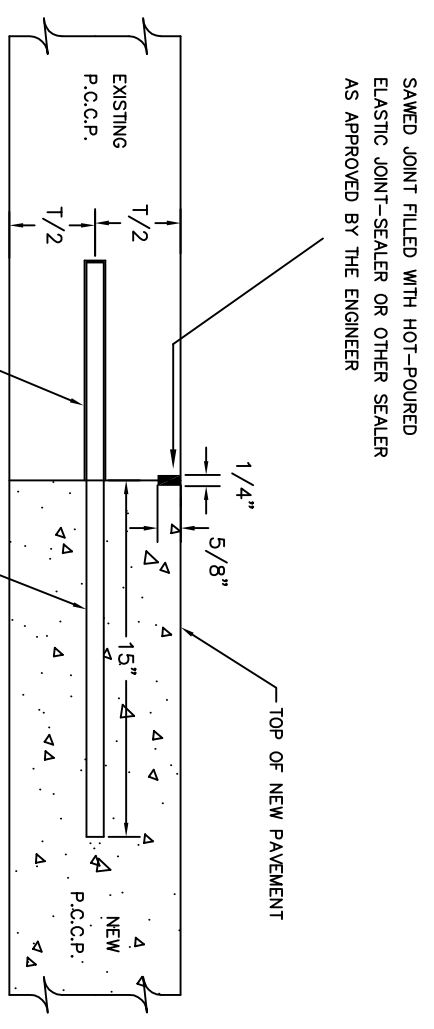


**TRANSVERSE CONSTRUCTION JOINT WITH DOWEL BARS**

**GENERAL NOTES:**  
 This detail shall be used when the transverse joint is 15 feet or greater from the existing transverse contraction joint.  
 The plain round dowel bars shall be embedded with an epoxy resin adhesive.  
 The in place PCC pavement and anchored with an epoxy resin adhesive.  
 The 1/4" epoxy coated plain round dowel bars shall be spaced 12 inches center to center and shall be a minimum of 3 inches and a maximum of 6 inches from the pavement edges.  
 The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on a previous project or current project.

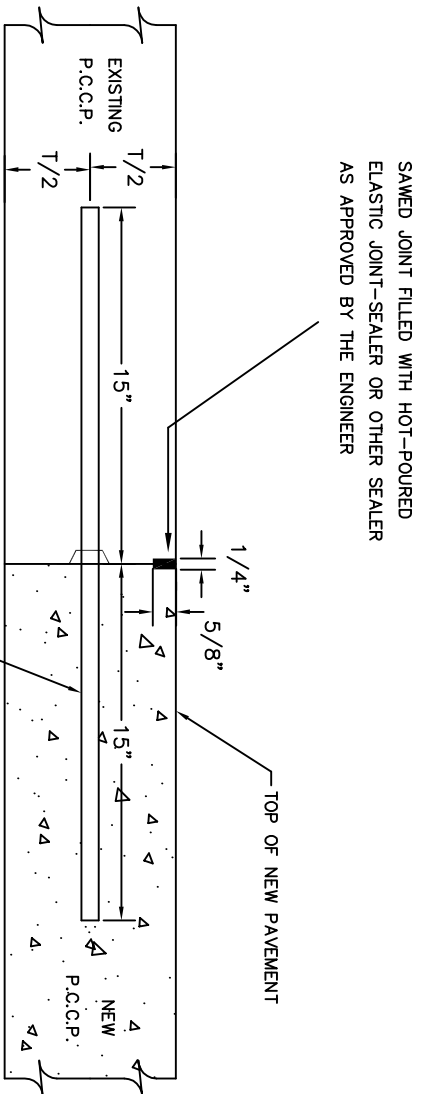
S D D T	PCC PAVEMENT TRANSVERSE CONSTRUCTION JOINTS WITH TIE BARS OR DOWEL BARS	PLATE NUMBER	380.06
		September 6, 2006	Sheet 1 of 1

Published Date: 4th Qtr. 2007



**SAWED JOINT FILLED WITH HOT-POURED ELASTIC JOINT-SEALER OR OTHER SEALER AS APPROVED BY THE ENGINEER**

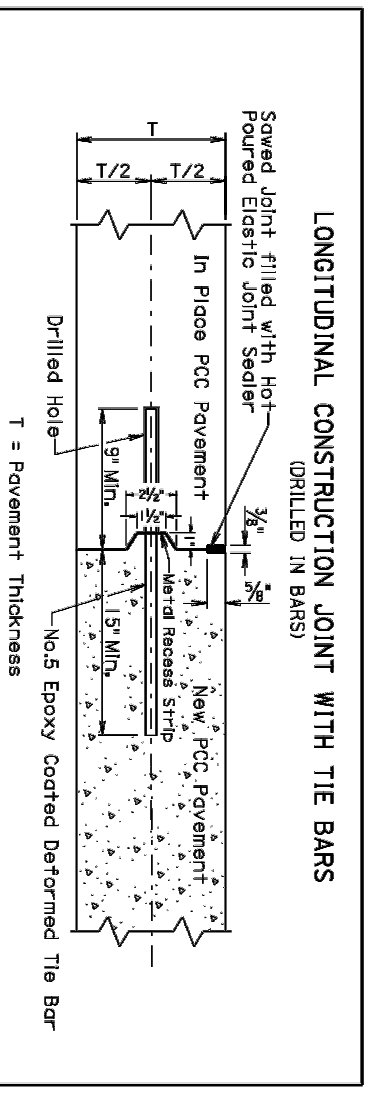
**GENERAL NOTES:**  
 THE TIE BAR IS TO BE EMBEDDED A MINIMUM DEPTH OF 9 INCHES INTO THE EXISTING PAVEMENT BY UTILIZING AN EPOXY RESIN ADHESIVE.



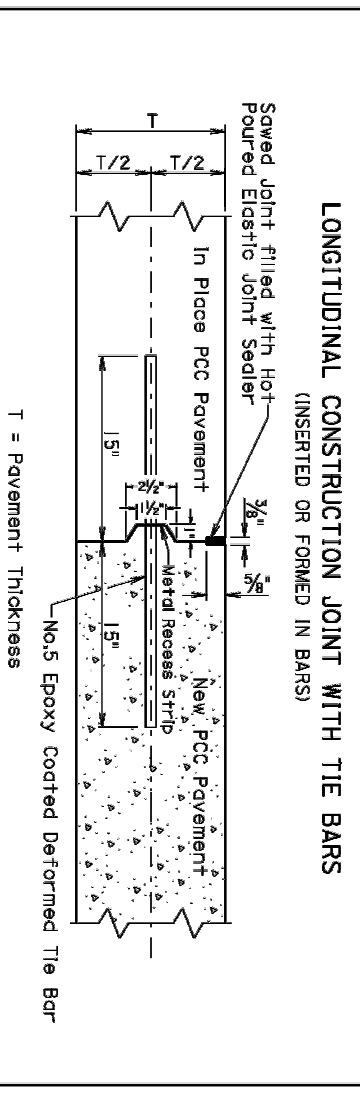
**PCC PAVEMENT TRANSVERSE JOINTS WITH TIE BARS**

**GENERAL NOTES:**  
 THE TIE BAR IS TO BE EMBEDDED A MINIMUM DEPTH OF 9 INCHES INTO THE EXISTING PAVEMENT BY UTILIZING AN EPOXY RESIN ADHESIVE.

PROJECT NO.	2017-042	SHEET NO.	64	TOTAL SHEETS	83
LONGITUDINAL JOINT DETAIL			1/19/2018		

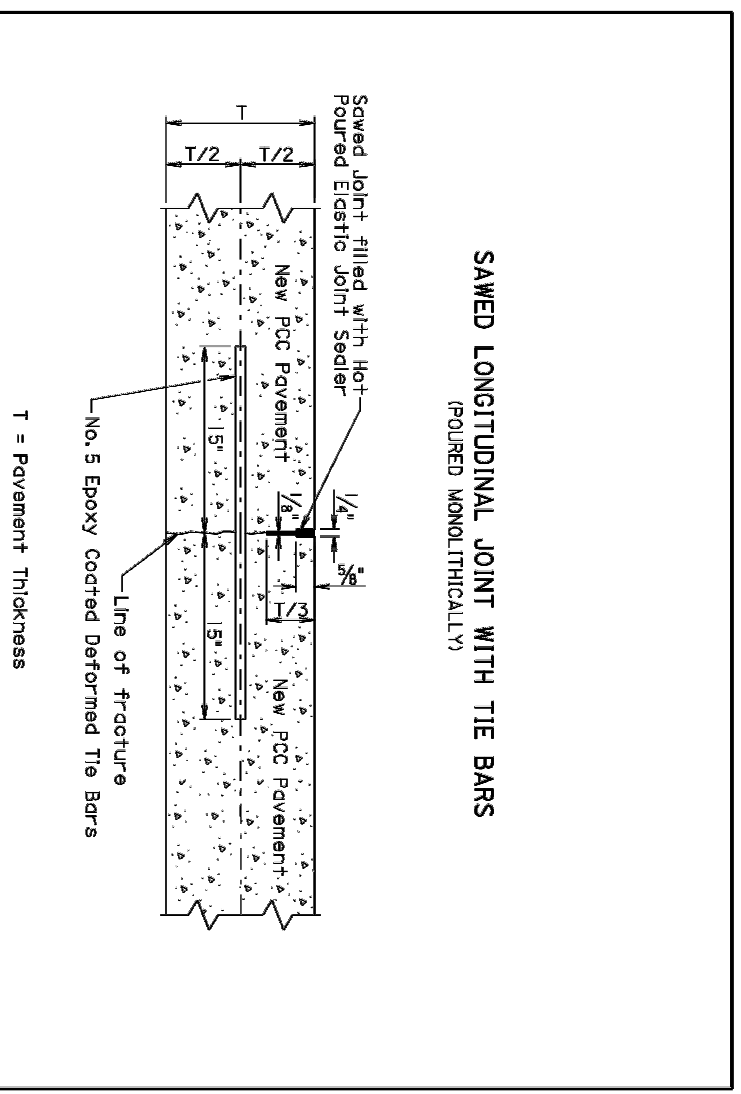


**GENERAL NOTES:**  
 The tie bars shall be embedded a minimum depth of 9 inches into the in place PCC pavement and anchored with an epoxy resin adhesive.  
 No. 5 epoxy coated deformed tie bars shall be spaced 48" center to center for a female keyway or 30" center to center for a vertical face and male keyway. The keyway shown above is a female keyway.  
 The tie bars shall be placed a minimum of 15 inches from existing transverse contraction joints.  
 The keyway is optional and is not required. When concrete pavement is formed and a keyway is provided, a metal recess strip shall be used. When concrete pavement is slip formed, a metal recess strip is not required.  
 The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on a previous project or current project.



**GENERAL NOTES:**  
 No. 5 epoxy coated deformed tie bars shall be spaced 48" center to center for a female keyway or 30" center to center for a vertical face and male keyway. The keyway shown above is a female keyway.  
 The tie bars shall be placed a minimum of 15 inches from existing transverse contraction joints.  
 The keyway is optional and is not required. When concrete pavement is formed and a keyway is provided, a metal recess strip shall be used. When concrete pavement is slip formed, a metal recess strip is not required.  
 The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on the current project.

September 14, 2001	<b>PLATE NUMBER</b> 380.10
<b>SD</b> <b>DD</b> <b>T</b>	<b>PCC PAVEMENT LONGITUDINAL JOINTS WITH TIE BARS</b>
<b>Published Date: 4th Qtr. 2007</b>	Sheet 1 of 2

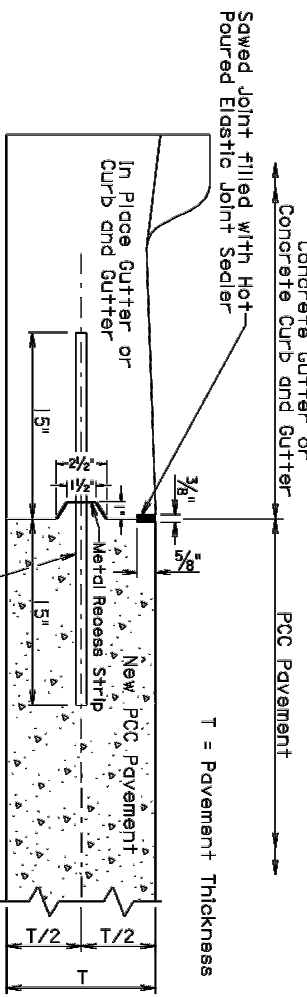


**GENERAL NOTES:**  
 No. 5 epoxy coated deformed tie bars shall be spaced 48 inches center to center.  
 The tie bars shall be placed a minimum of 15 inches from the existing transverse contraction joints.  
 The first saw cut to control cracking shall be a minimum of 1/3 the thickness of the pavement. Additional sawing for widening the saw cut to provide the width for the installation of the hot poured elastic joint sealer will be necessary.

September 14, 2001	<b>PLATE NUMBER</b> 380.10
<b>SD</b> <b>DD</b> <b>T</b>	<b>PCC PAVEMENT LONGITUDINAL JOINTS WITH TIE BARS</b>
<b>Published Date: 4th Qtr. 2007</b>	Sheet 2 of 2



**LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS**  
(INDIVIDUALLY FORMED)



**GENERAL NOTES:**

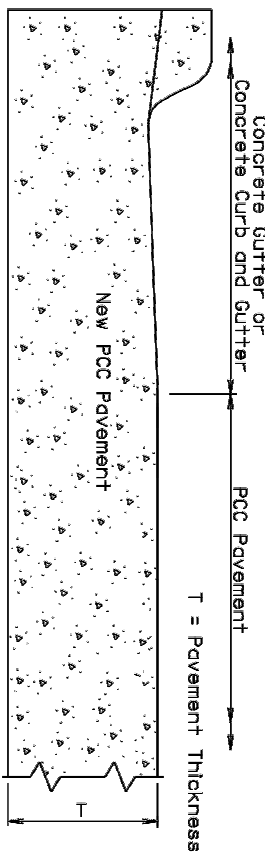
No.5 epoxy coated deformed tie bars shall be spaced 48" center to center. The keyway shown above is a female keyway.  
The tie bars shall be placed a minimum of 15 inches from existing transverse contraction joints.

The keyway is optional and is not required. When concrete pavement is formed and a keyway is provided, a metal recess strip shall be used. When concrete pavement is slip formed, a metal recess strip is not required.

The transverse contraction joints in the concrete gutter or concrete curb and gutter shall be placed at each midline PCC pavement transverse contraction joint. The transverse contraction joints in the concrete gutter or the concrete curb and gutter shall be 1/2" deep if formed in fresh concrete using a suitable grooving tool. If a saw is used to cut the transverse contraction joints, then the depth of the joint shall be at least 1/4" the thickness of the concrete gutter or concrete curb and gutter.

The term "In Place Gutter or Curb and Gutter" in the above drawing indicates that the in place concrete gutter and concrete curb and gutter was placed on the current project.

**POURED MONOLITHICALLY**



**GENERAL NOTES:**

The midline curb and gutter may be placed monolithically with the PCC pavement. If this method of construction is used, the tie bars and the sawed joint between the curb and gutter and the PCC pavement shall be eliminated.

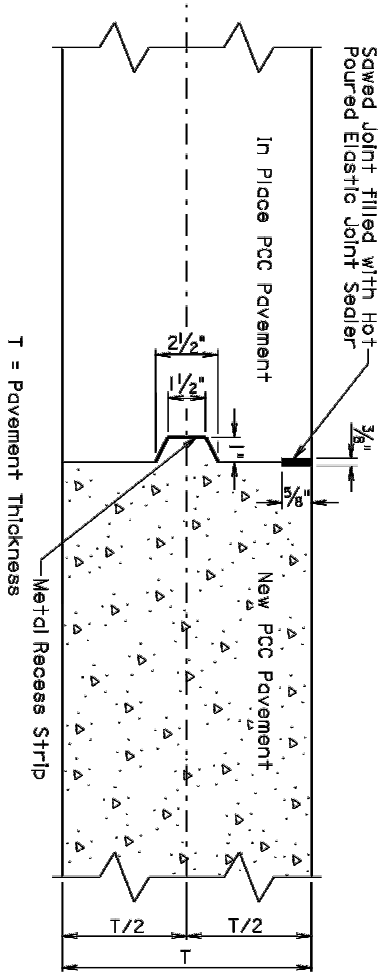
The gutter or curb and gutter shall be sawed transversely at each midline transverse contraction joint. The transverse contraction joints in the gutter or curb and gutter shall be sawed and sealed same as the transverse contraction joints in the PCC pavement.

The slope of the gutter shall be the slope designated for the type of gutter or curb and gutter to be constructed. The bottom slope of the gutter or curb and gutter shall be constructed at the same slope as the midline concrete pavement.

<b>SD</b> <b>DD</b> <b>T</b>	<b>PCC PAVEMENT LONGITUDINAL CONSTRUCTION JOINTS WITH CONCRETE GUTTER OR CONCRETE CURB AND GUTTER</b>	<b>PLATE NUMBER</b> 380.11	September 14, 2005
		Sheet 1 of 1	

Published Date: 4th Qtr. 2007

**LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS**

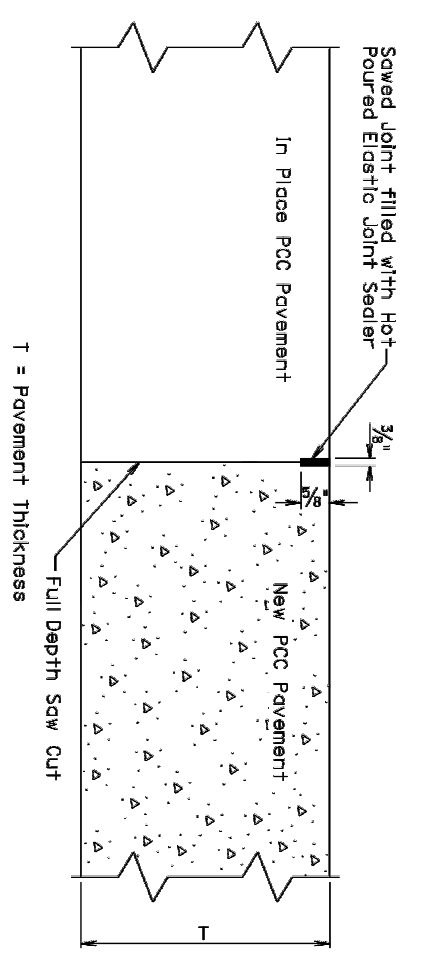


**GENERAL NOTES:**

When concrete pavement is formed and a keyway is provided, a metal recess strip shall be used. When concrete pavement is slip formed, a metal recess strip is not required.

The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on the current project.

**LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS**



**GENERAL NOTE:**

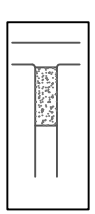
The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on a previous project.

<b>SD</b> <b>DD</b> <b>T</b>	<b>PCC PAVEMENT LONGITUDINAL JOINTS WITHOUT TIE BARS</b>	<b>PLATE NUMBER</b> 380.12	September 14, 2001
		Sheet 1 of 2	

Published Date: 4th Qtr. 2007



PROJECT NO.	2017-042	SHEET NO.	65	TOTAL SHEETS	83
VTC-SED. CONTROL		ISSUED	1/19/2018		



VEHICLE TRACKING CONTROL

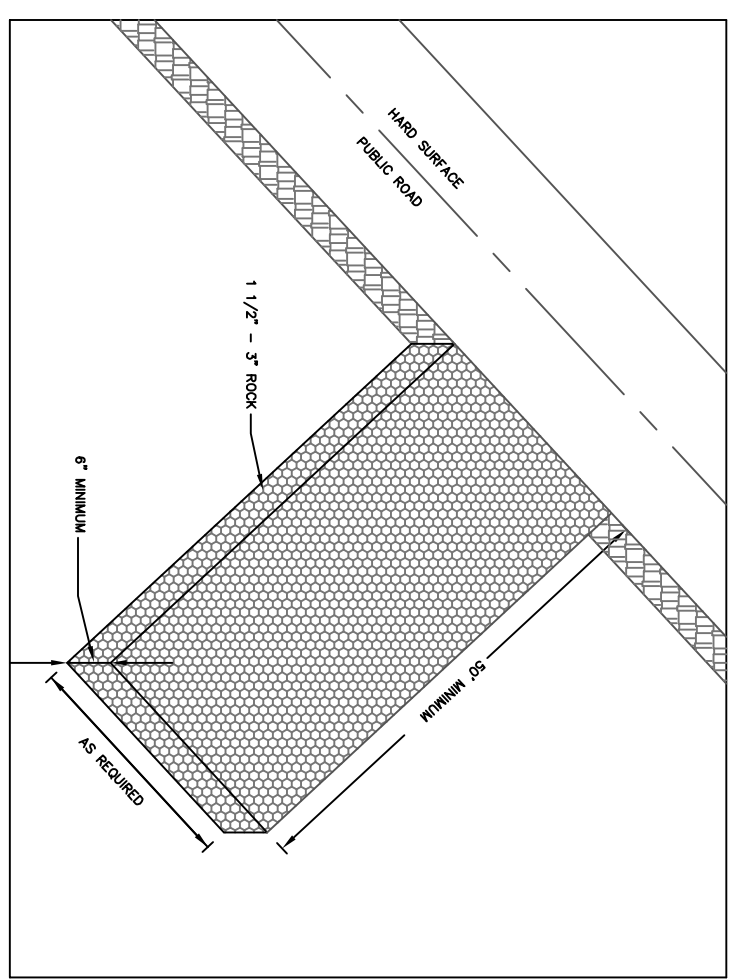


DEFINITION:

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSES:

TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.



SPECIFICATION REFERENCE NO. 734

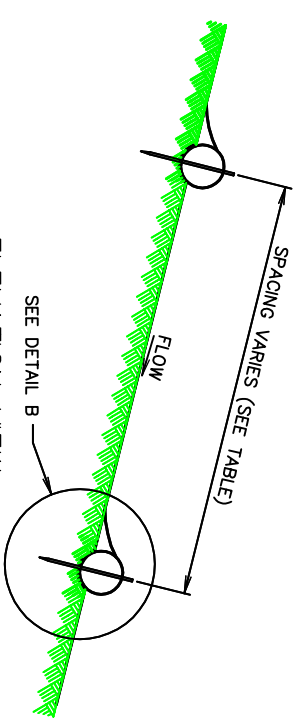


CITY OF SIOUX FALLS ENGINEERING DIVISION TEMPORARY VEHICLE TRACKING CONTROL

PLATE NUMBER 734.02

REVISED: MAY 2003

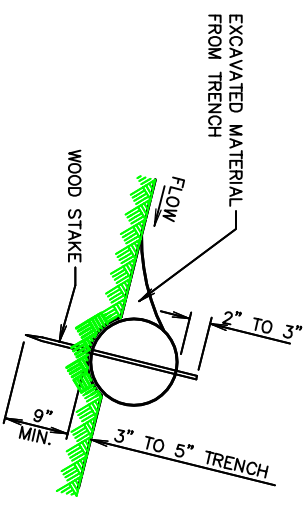
SEDIMENT CONTROL WATTLE



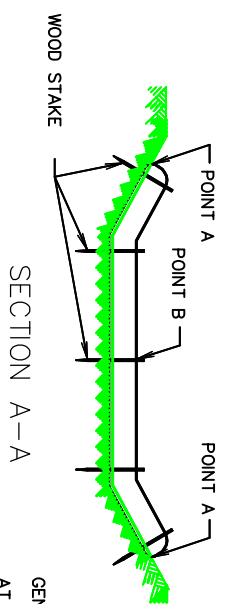
ELEVATION VIEW  
CUT OR FILL SLOPE INSTALLATION

CUT OR FILL SLOPE INSTALLATION	
SLOPE	SPACING (FT)
1:1	10
2:1	20
3:1	30
4:1	40

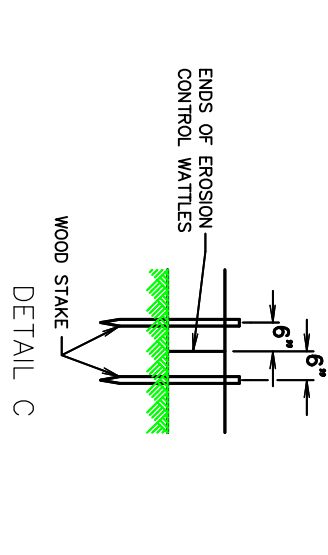
NOTE: IF ONLY ONE WATTLE IS REQUIRED, THE SLOPE SHALL NOT EXCEED 20:1.



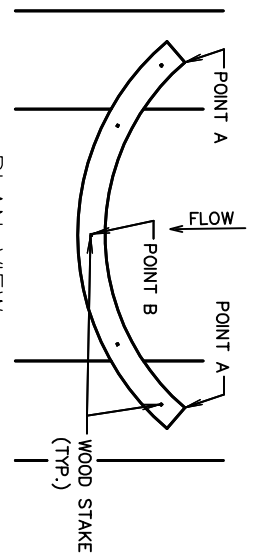
DETAIL B  
(TYPICAL OF ALL INSTALLATIONS)



SECTION A-A



DETAIL C



PLAN VIEW  
DITCH INSTALLATION

DITCH INSTALLATION	
GRADE	SPACING (FT)
2%	150
3%	100
4%	75
5%	50

GENERAL NOTES:  
 AT CUT OR FILL SLOPE INSTALLATIONS, WATTLES SHALL BE INSTALLED ALONG THE CONTOUR AND PERPENDICULAR TO THE WATER FLOW.  
 AT DITCH INSTALLATIONS, POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE WATTLE AND NOT AROUND THE ENDS. THE CONTRACTOR SHALL DIG A 3" TO 5" TRENCH, INSTALL THE WATTLE TIGHTLY IN THE TRENCH SO THAT DAYLIGHT CAN NOT BE SEEN UNDER THE WATTLE, AND THEN COMPACT THE SOIL EXCAVATED FROM THE TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. SEE DETAIL B.  
 THE STAKES SHALL BE 1"x2" OR 2"x2" WOOD STAKES, HOWEVER, OTHER TYPES OF STAKES SUCH AS REBAR MAY BE USED ONLY IF APPROVED BY THE ENGINEER. THE STAKES SHALL BE PLACED 6" FROM THE ENDS OF THE WATTLES AND THE SPACING OF THE STAKES ALONG THE WATTLES SHALL BE 3' TO 4'.  
 WHERE INSTALLING RUNNING LENGTHS OF WATTLES, THE CONTRACTOR SHALL BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST AND SHALL NOT OVERLAP THE ENDS. SEE DETAIL C.

ISSUED: OCTOBER 2005

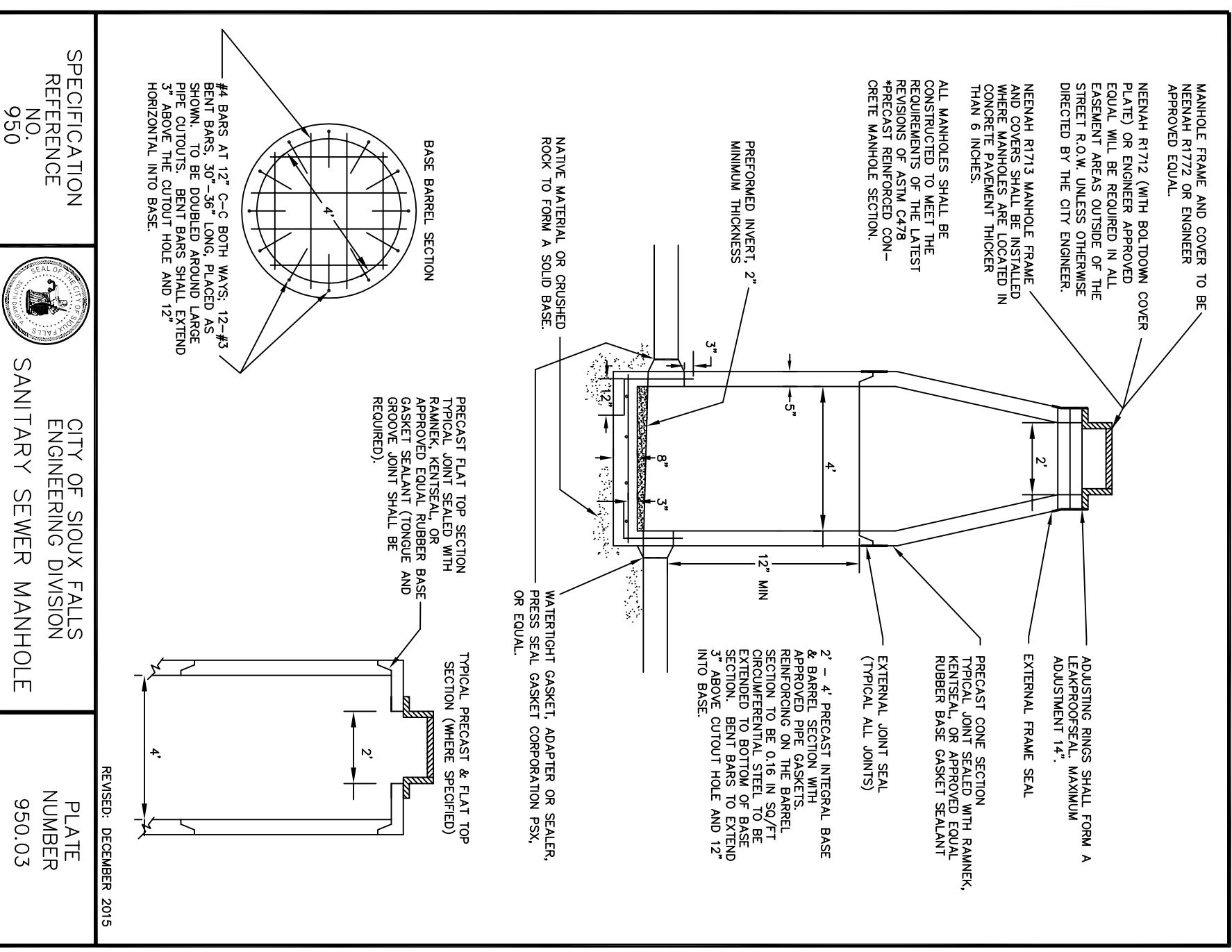
SPECIFICATION REFERENCE NO. 734



CITY OF SIOUX FALLS ENGINEERING DIVISION SEDIMENT CONTROL WATTLE

PLATE NUMBER 734.29

PROJECT	2017-042	SHEET NO.	66	TOTAL SHEETS	83
Manhole & Silt Fence					1/19/2018



SPECIFICATION REFERENCE NO. 950

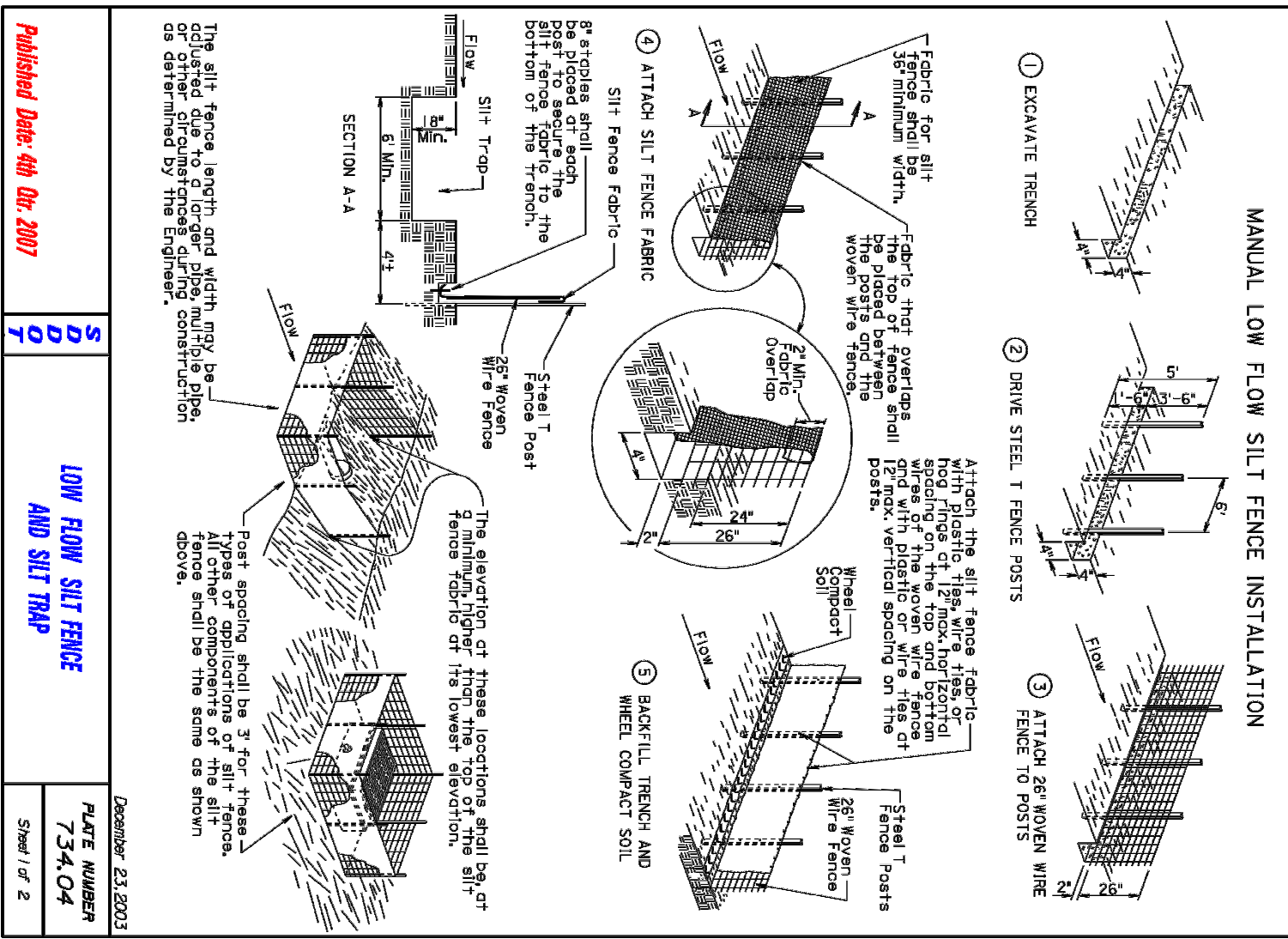
CITY OF SIOUX FALLS ENGINEERING DIVISION SANITARY SEWER MANHOLE

PLATE NUMBER 950.03

REVISED: DECEMBER 2015



MANUAL LOW FLOW SILT FENCE INSTALLATION



The silt fence length and width may be adjusted due to larger pipe multiple pipe or other circumstances during construction as determined by the Engineer.

December 23, 2003

PLATE NUMBER 734.04

Sheet 1 of 2

Published Date: 4th Oct 2007

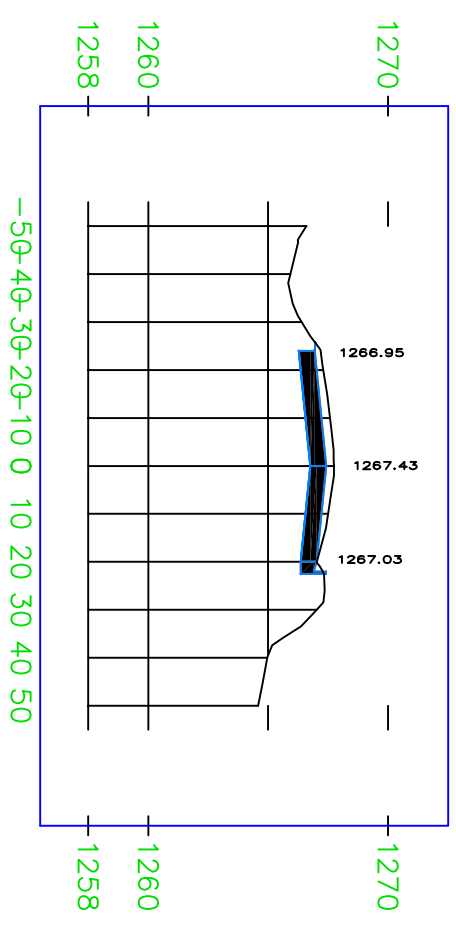
SD DOT

LOW FLOW SILT FENCE AND SILT TRAP

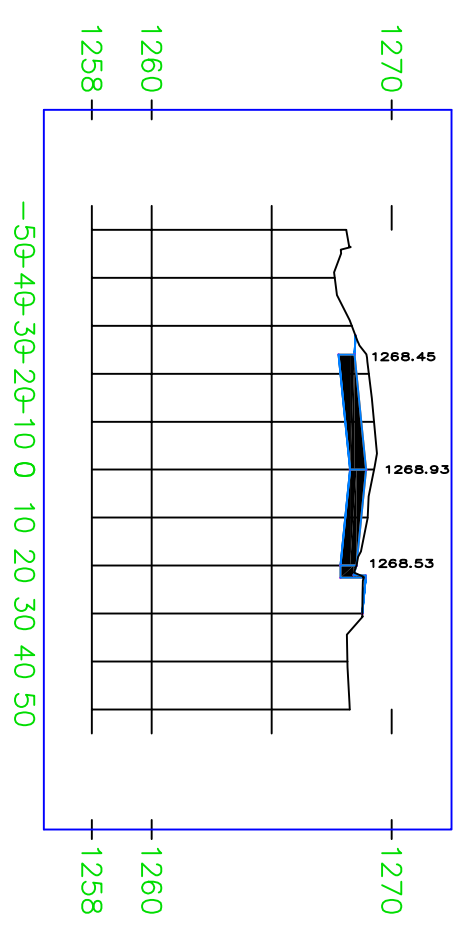
PROJECT	2017-042	SHEET NO.	67	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

# WCLR X-SECTIONS

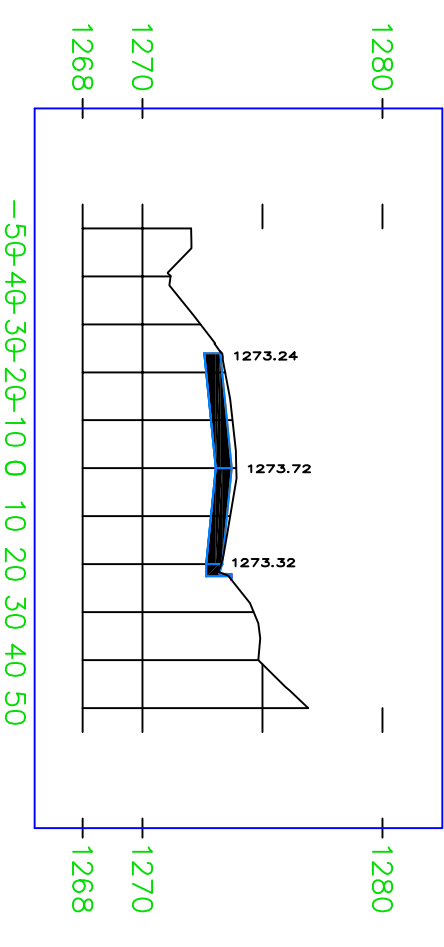
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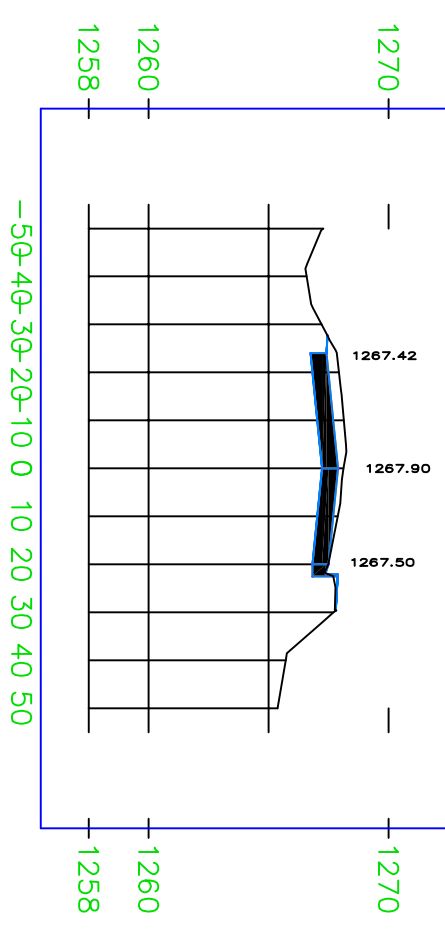
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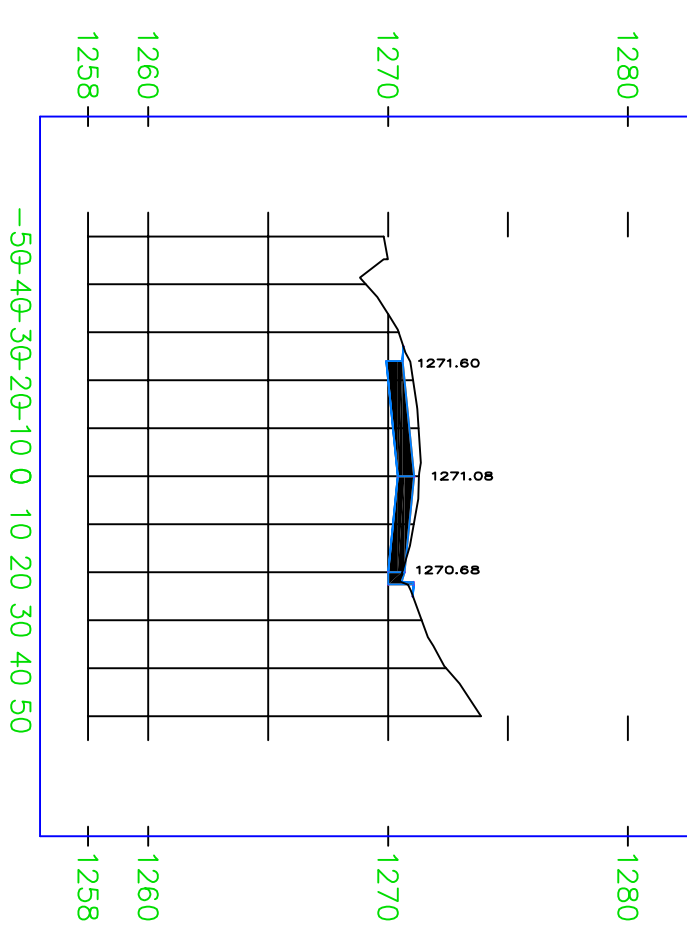
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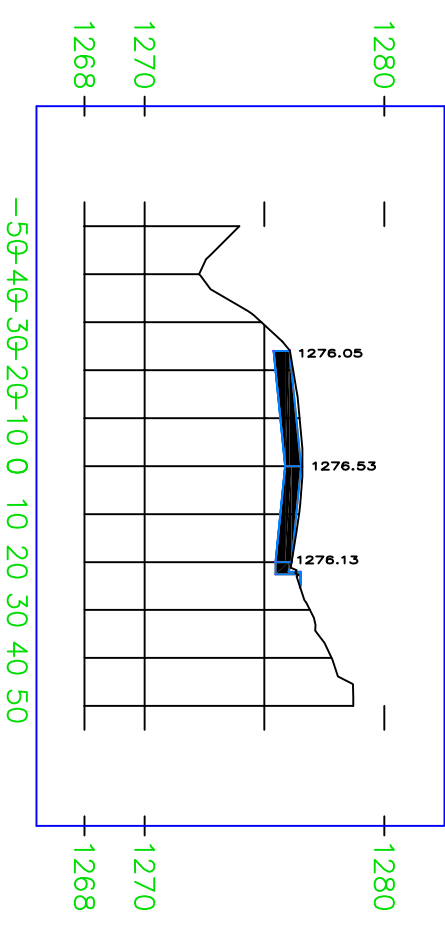
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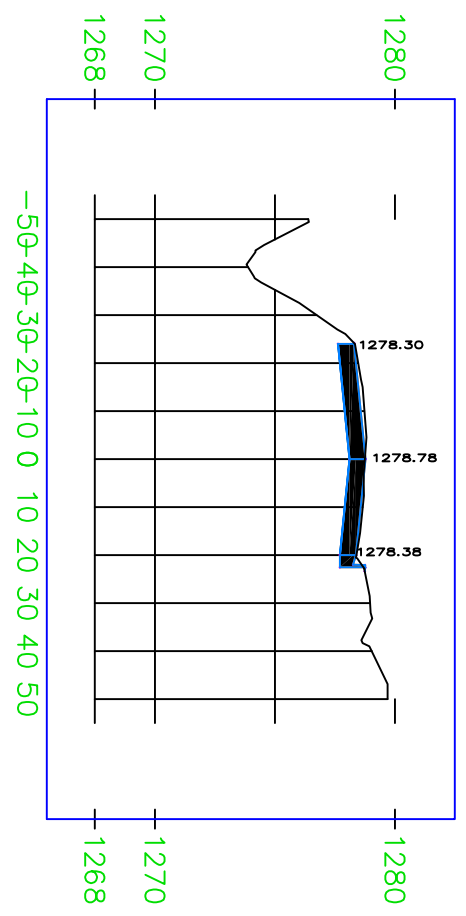


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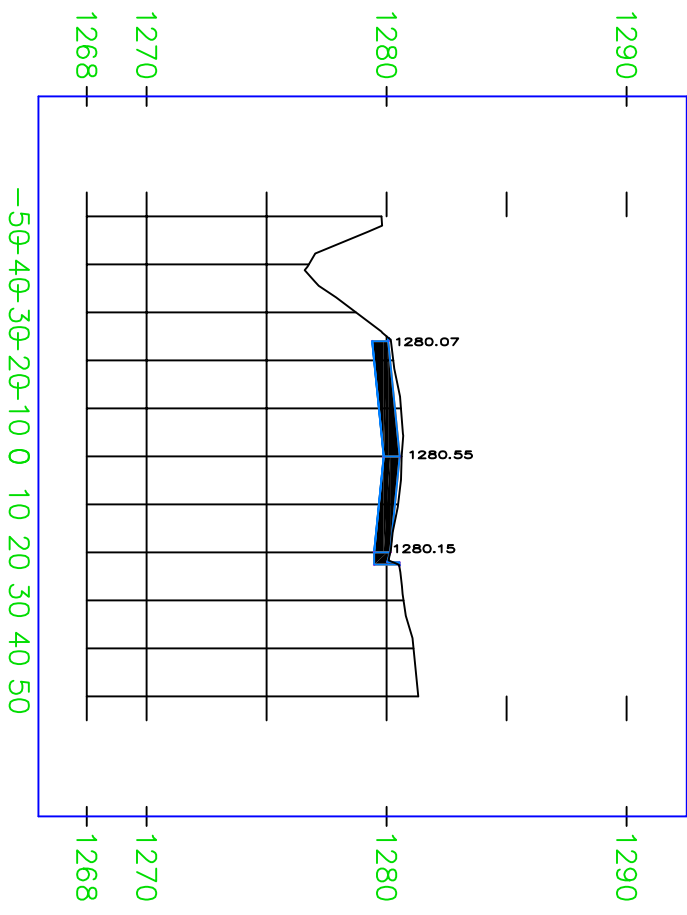


PROJECT	2017-042	SHEET NO.	68	TOTAL SHEETS	83
X-SECTIONS				1/19/2018	

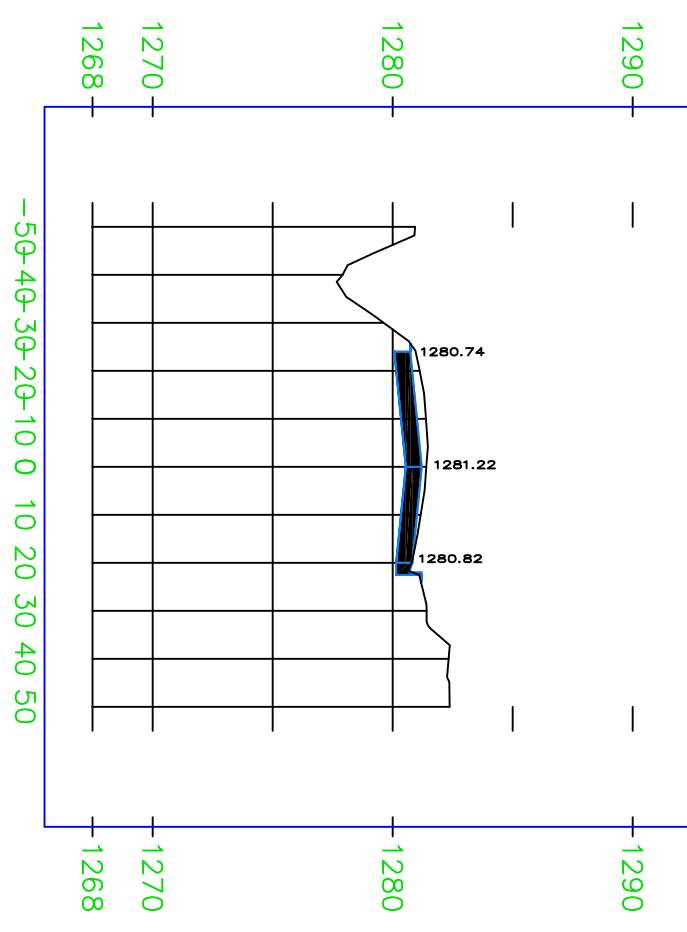
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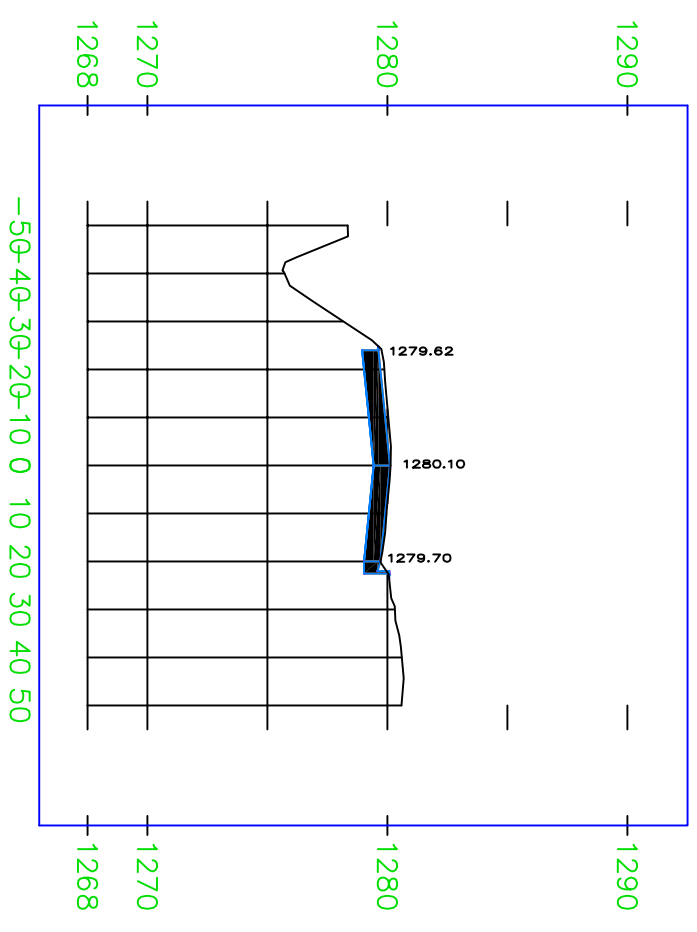
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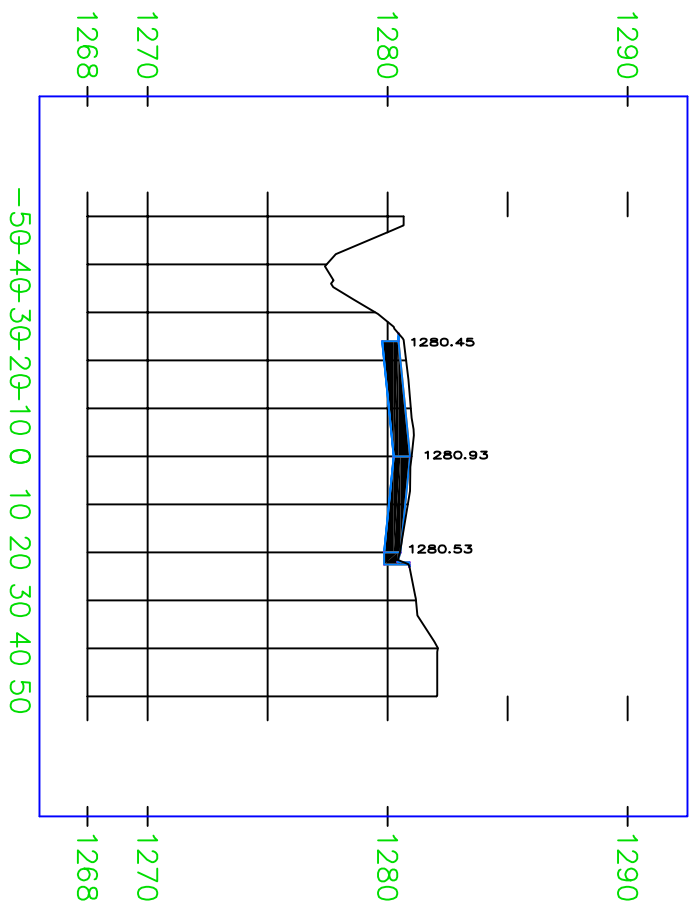
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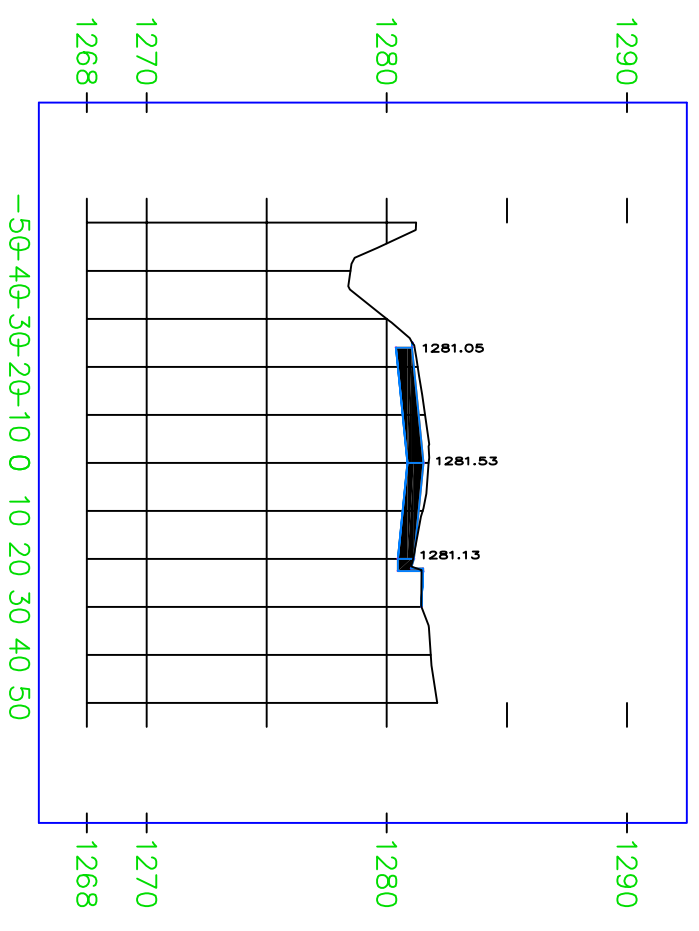
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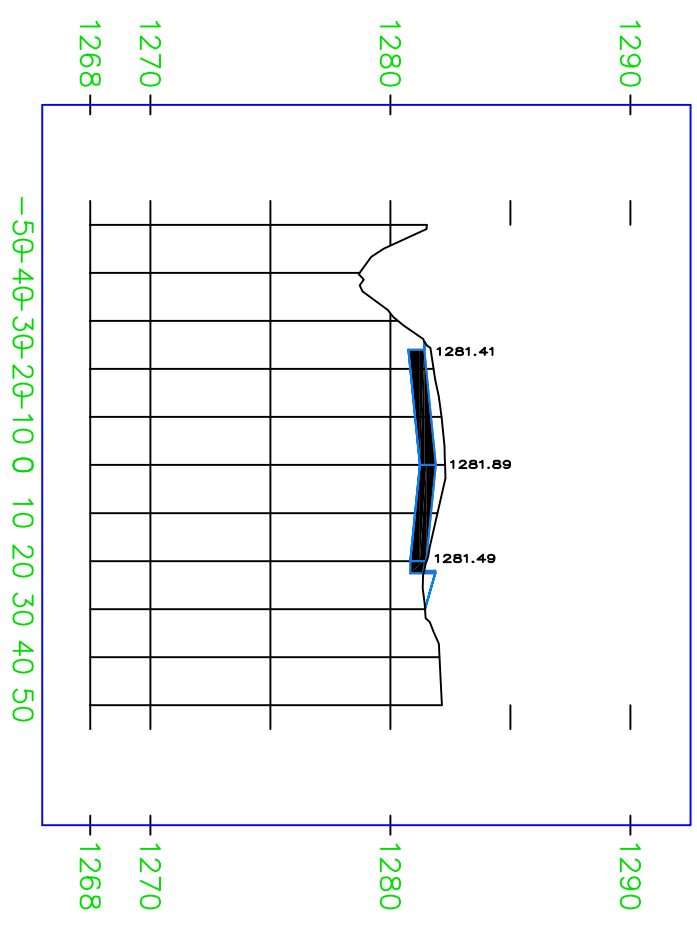


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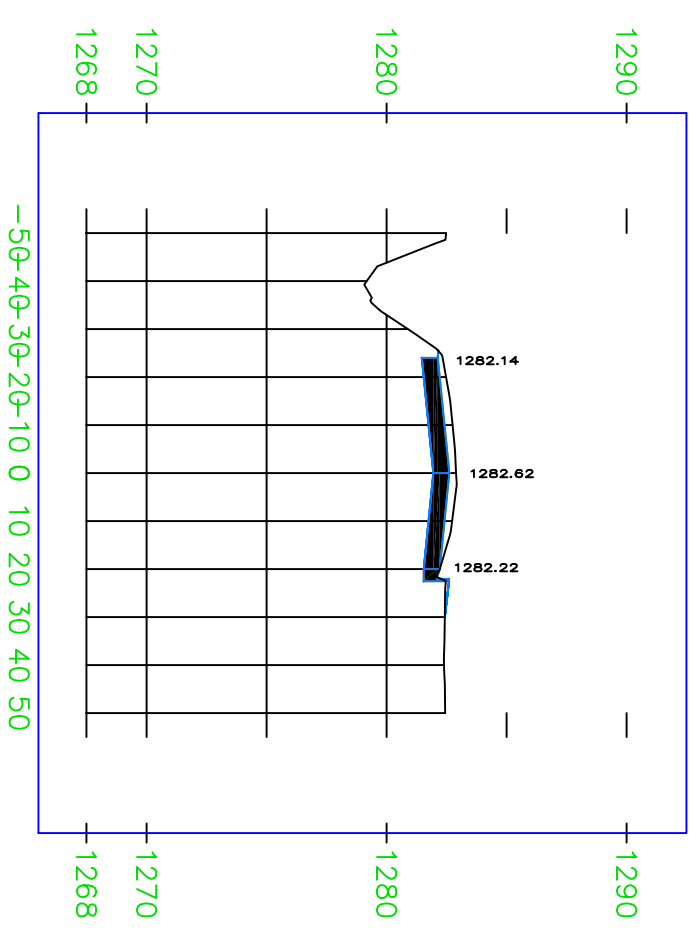


PROJECT	2017-042	SHEET NO.	69	TOTAL SHEETS	83
X-SECTIONS				1/19/2018	

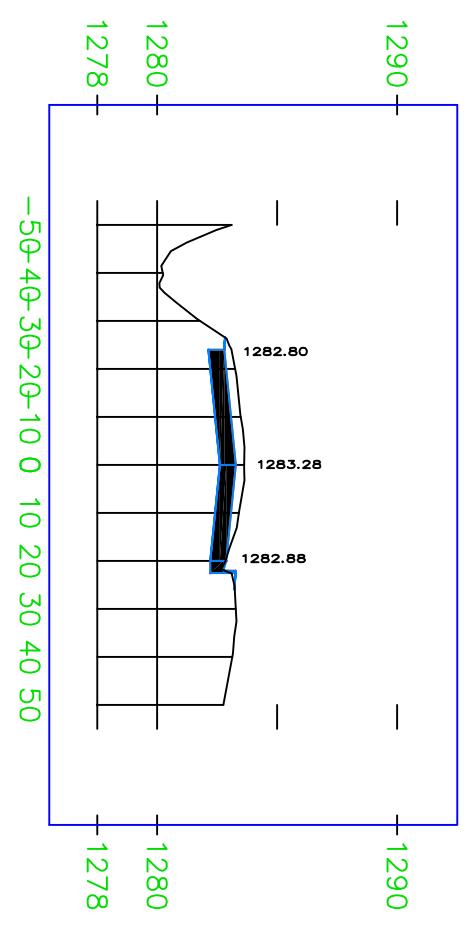
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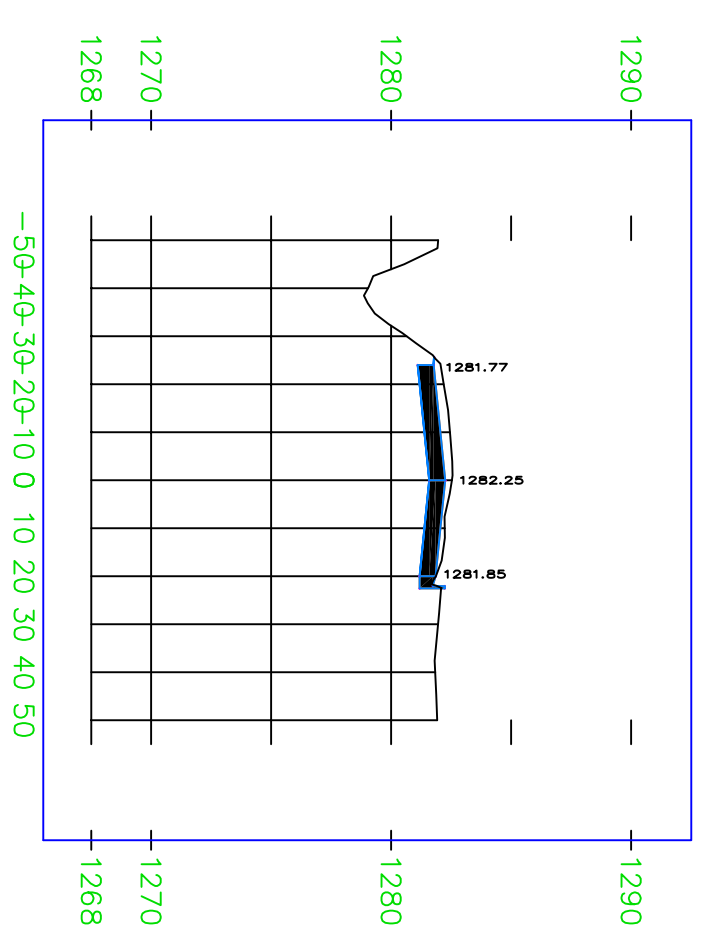
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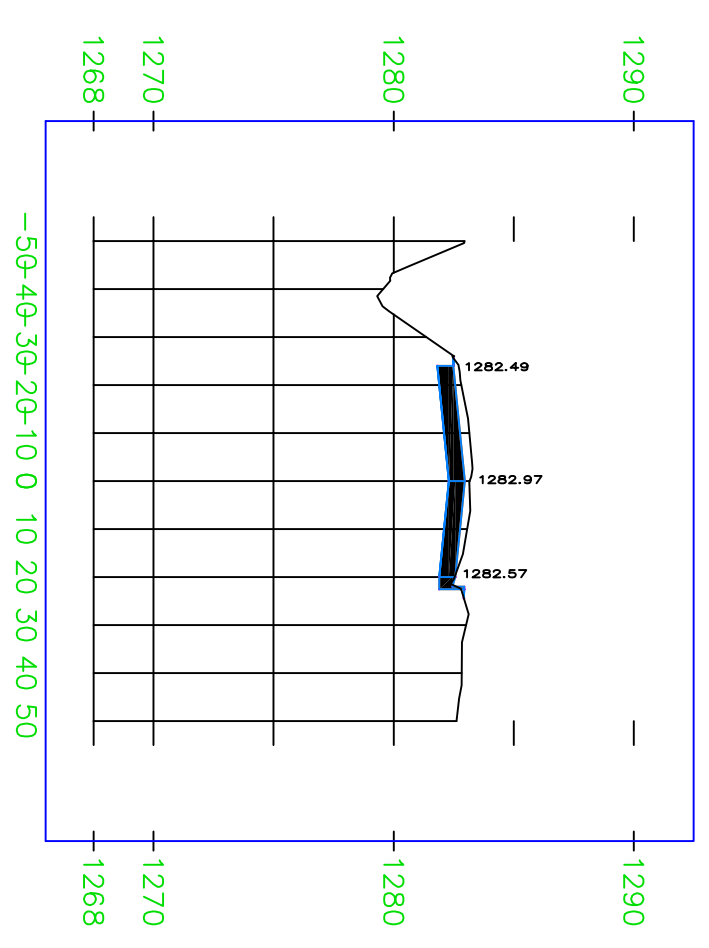
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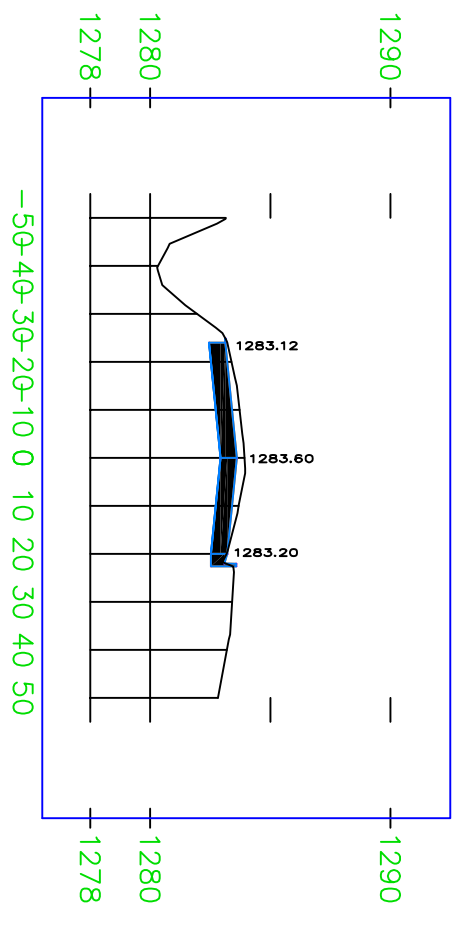
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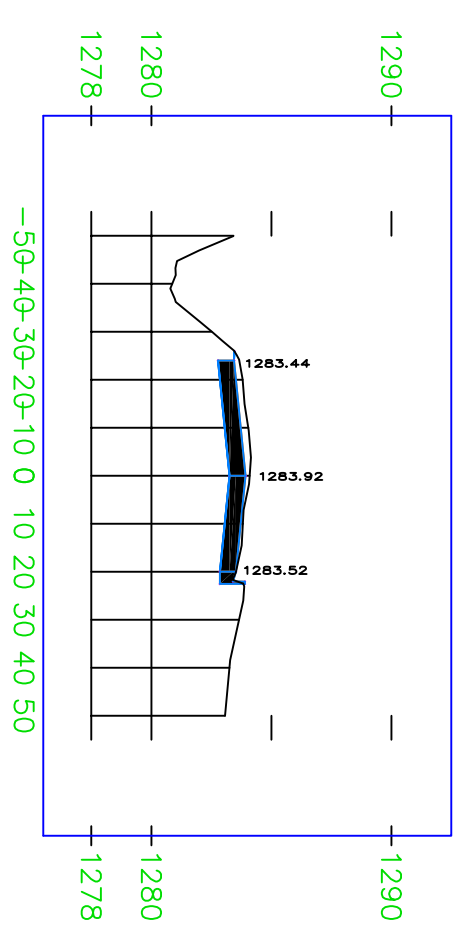


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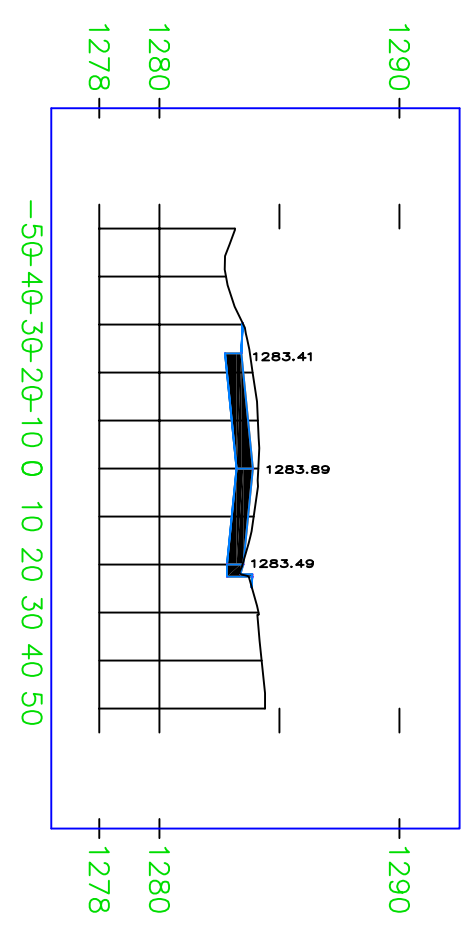


PROJECT	2017-042	SHEET NO.	70	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

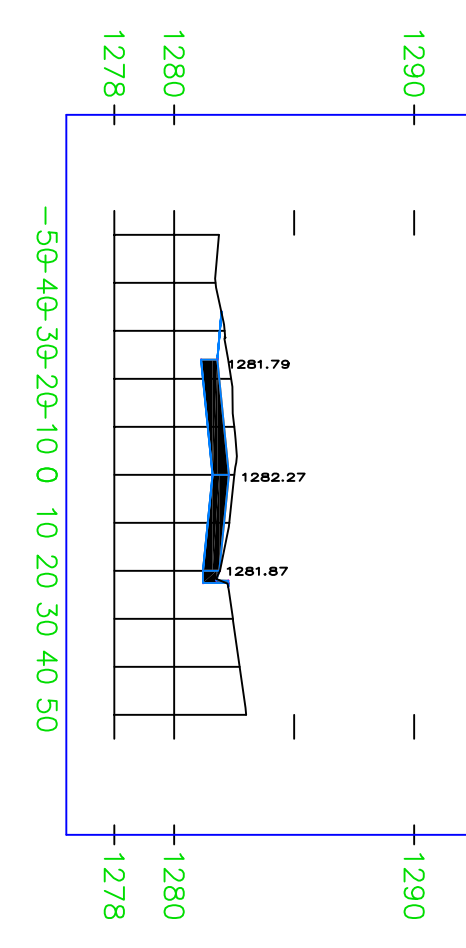
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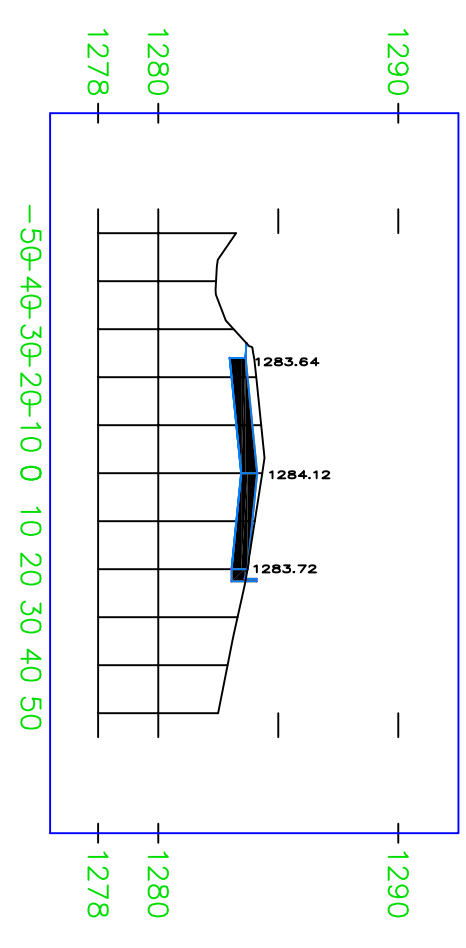
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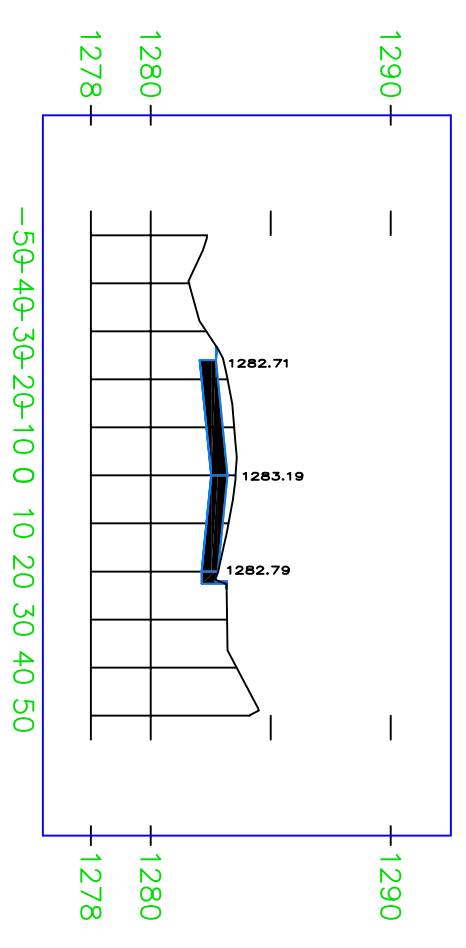
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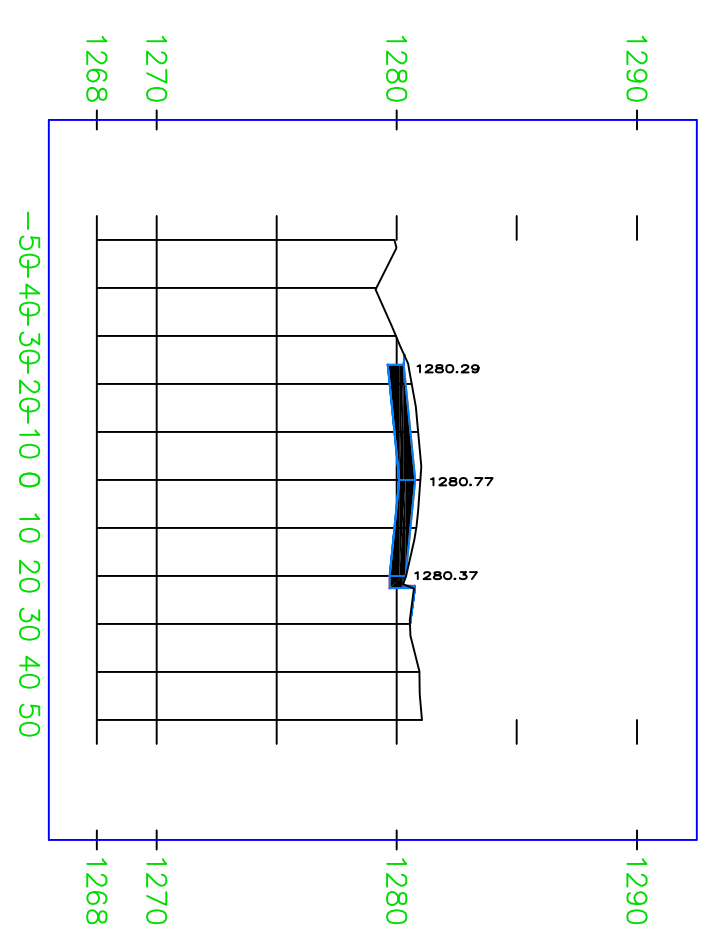
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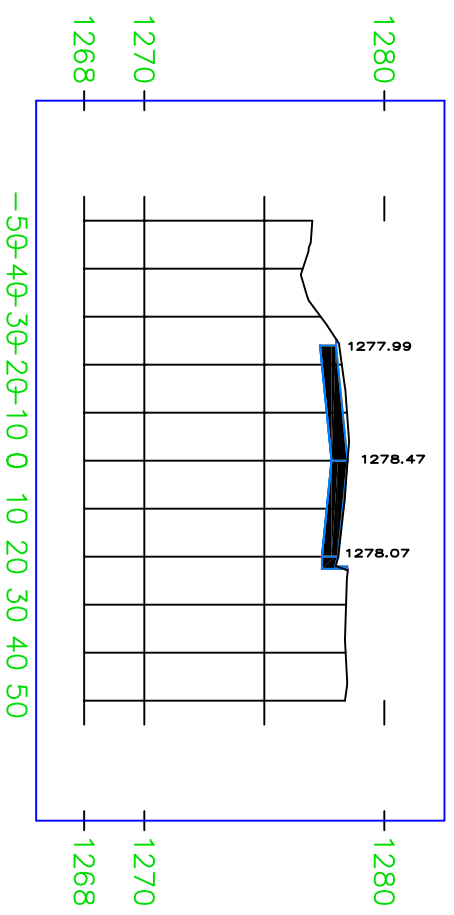


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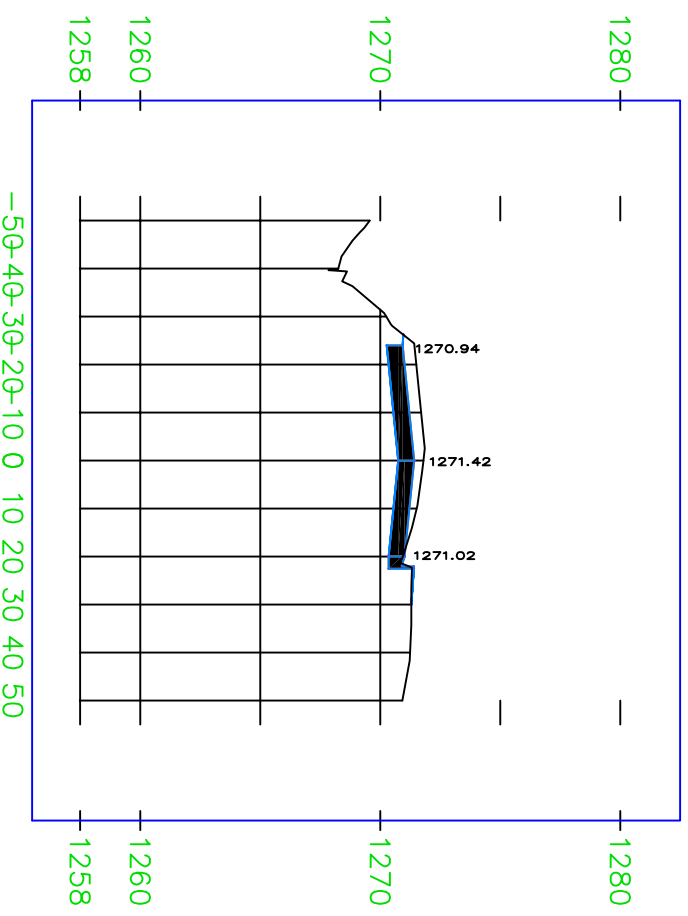


PROJECT	2017-042	SHEET NO.	71	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

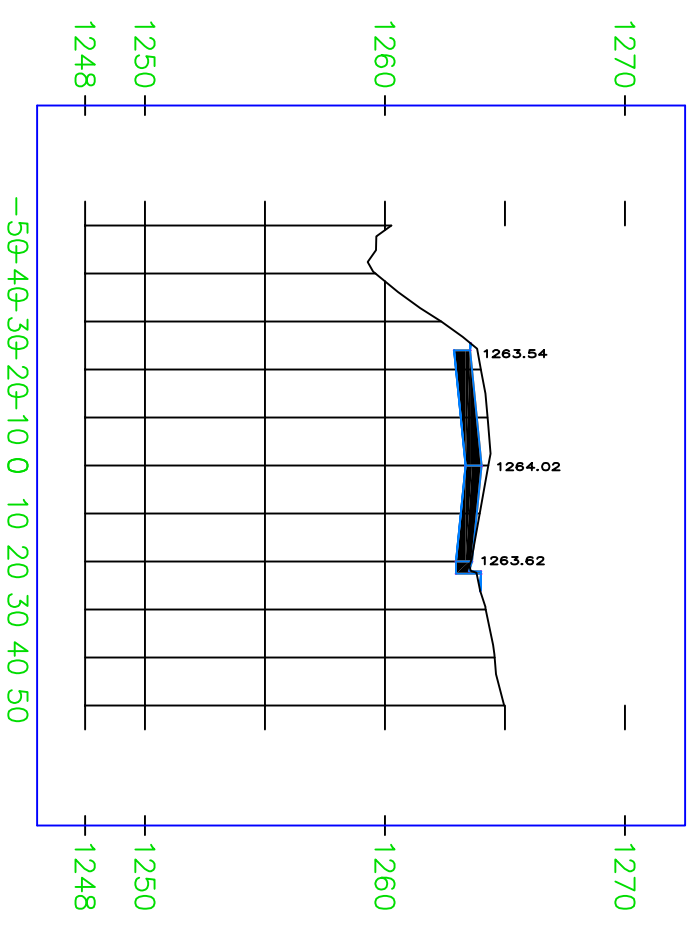
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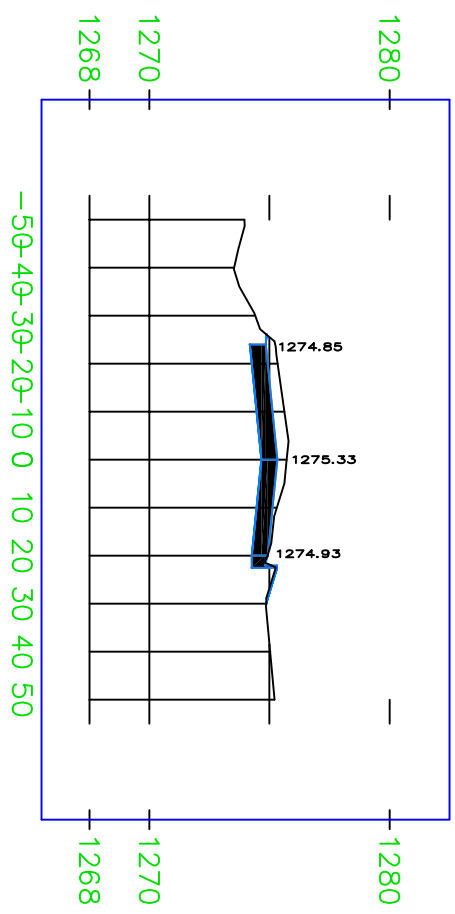
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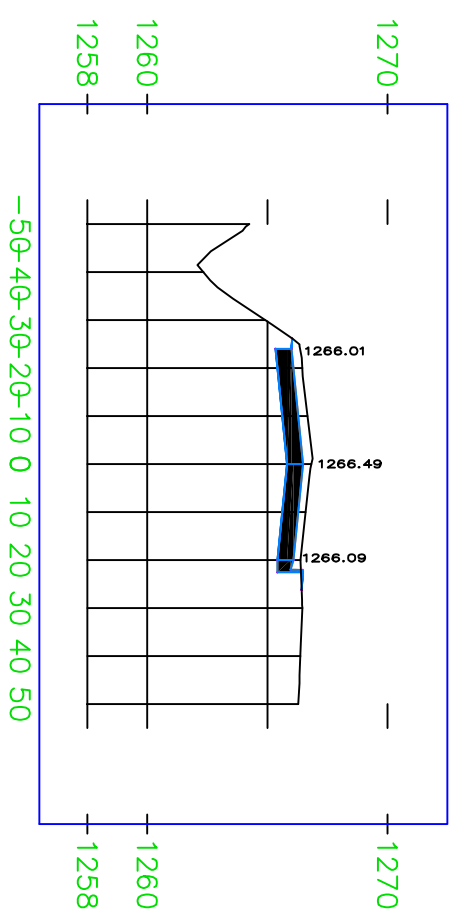
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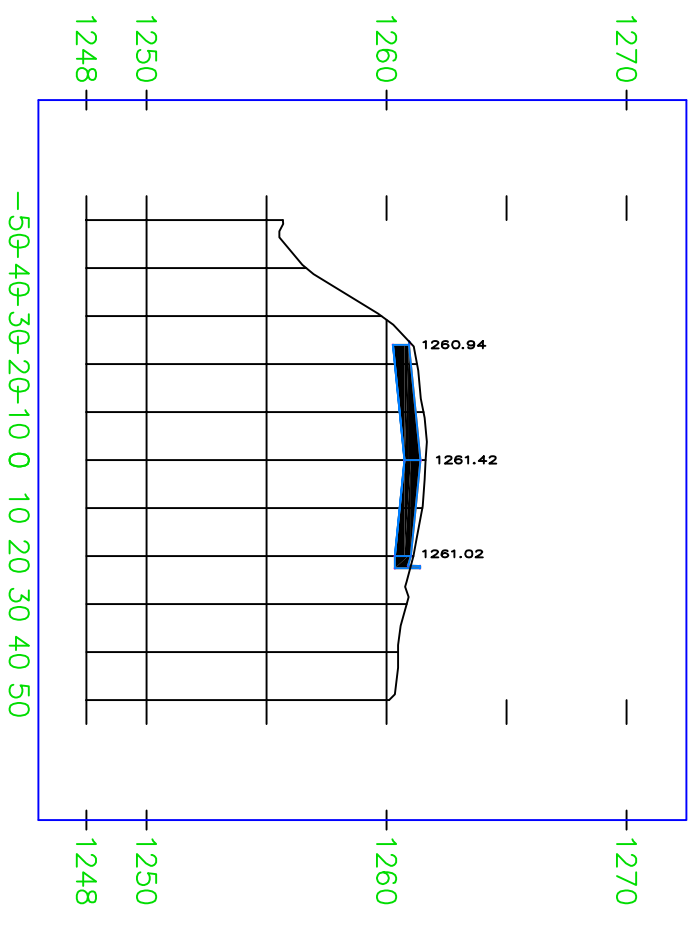
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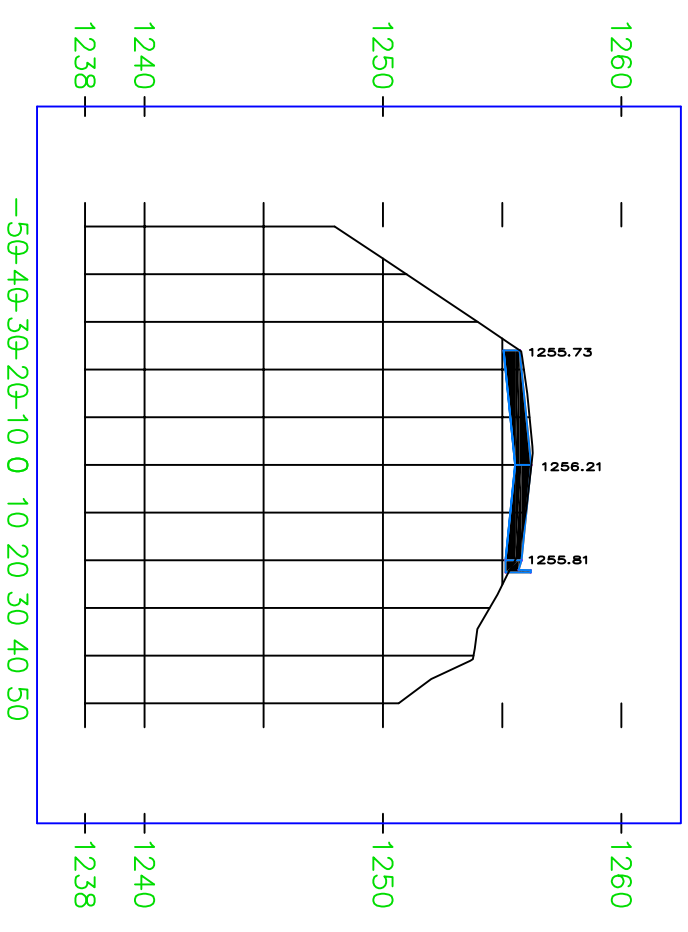
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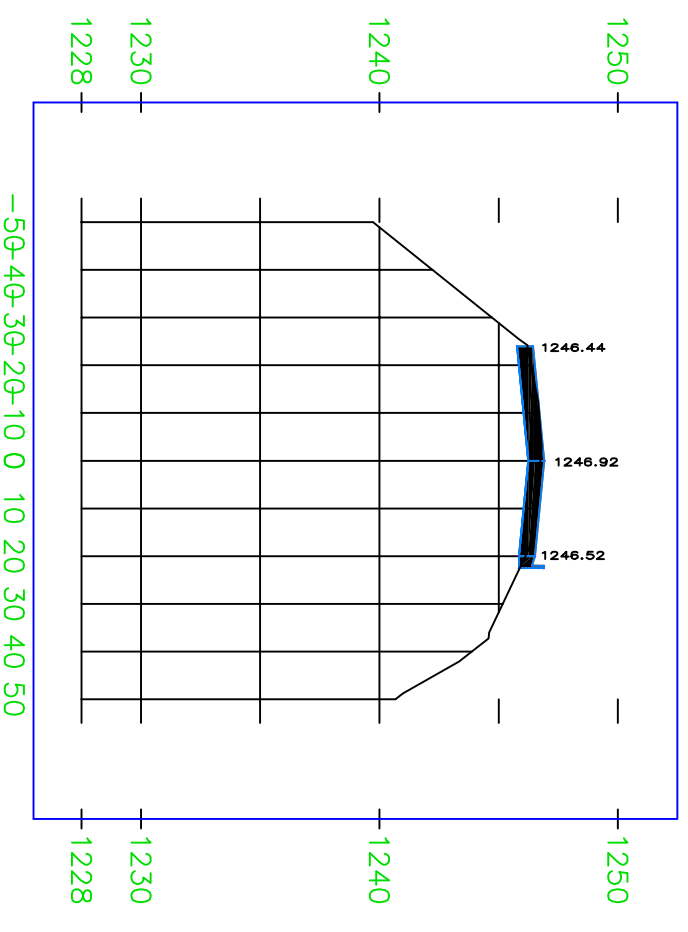


PROJECT	2017-042	SHEET NO.	72	TOTAL SHEETS	83
X-SECTIONS					1/19/2018

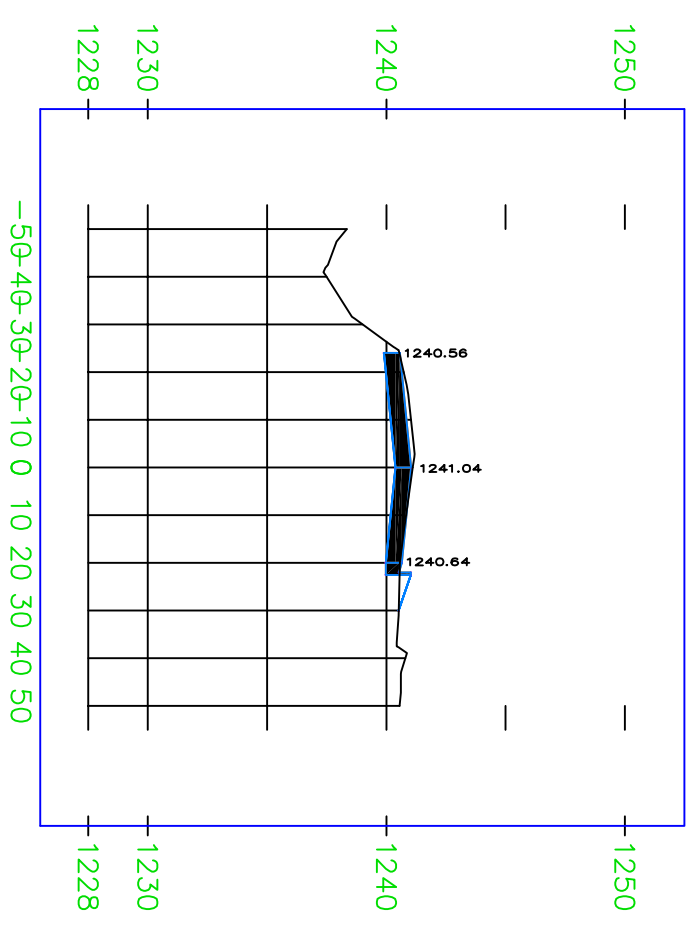
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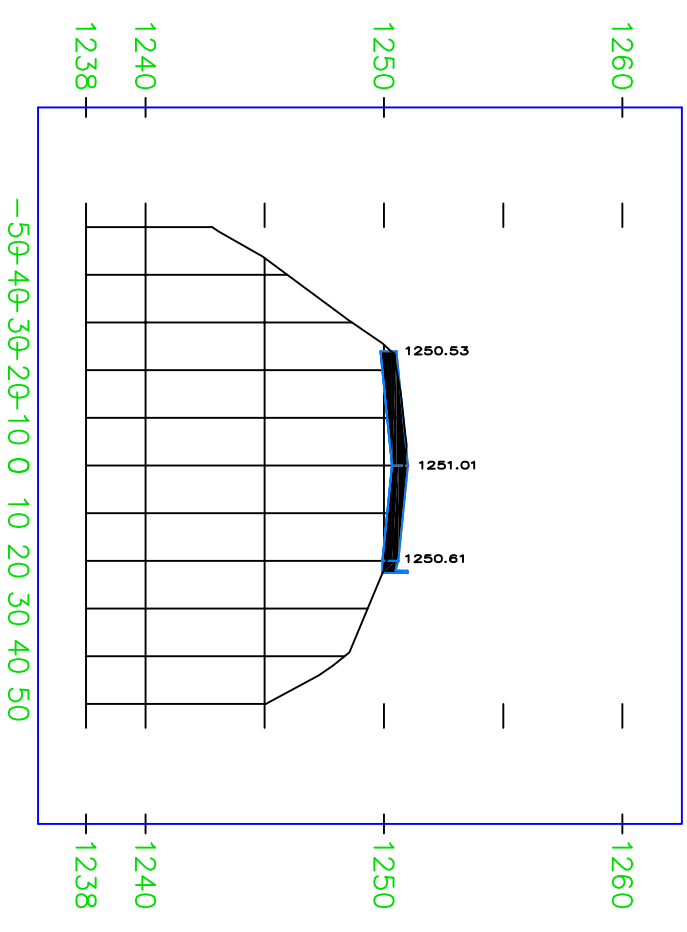
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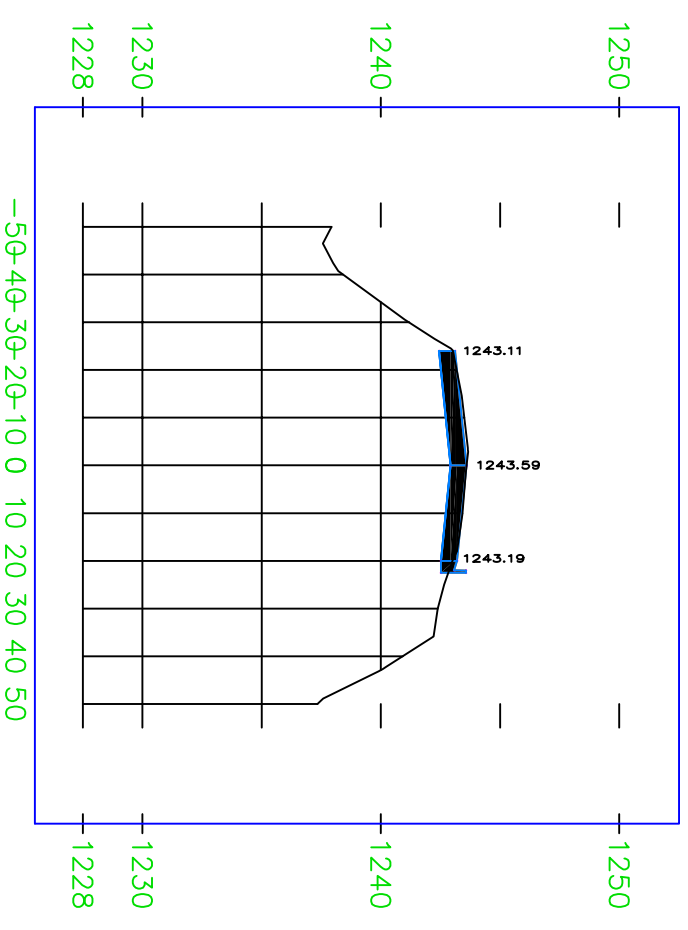
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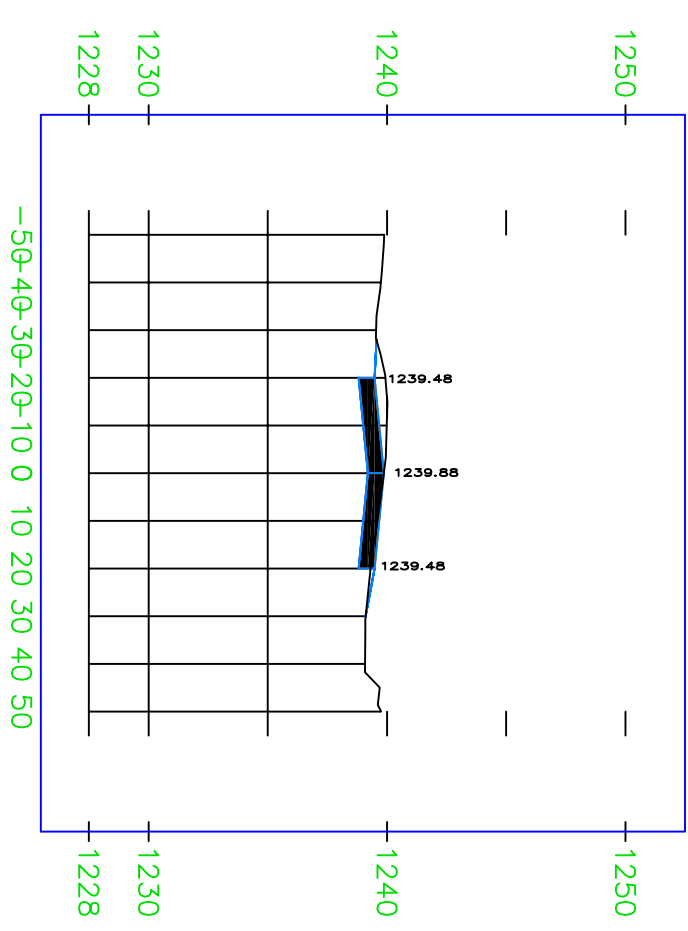
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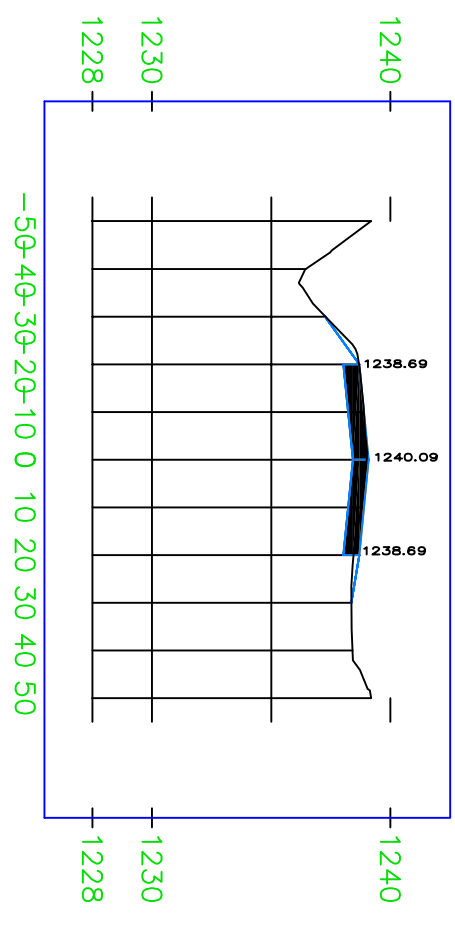


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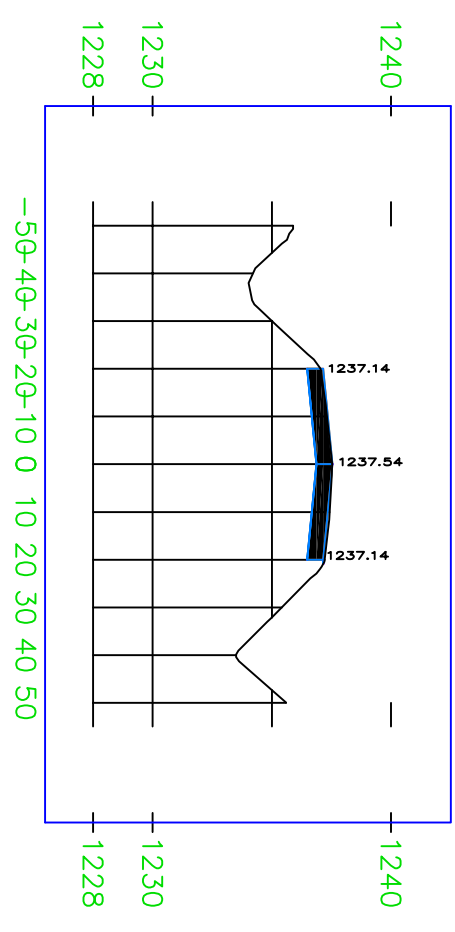


PROJECT		SHEET TOTAL	
2017-042		NO.	SHEETS
X-SECTIONS		73	83
		1/19/2018	

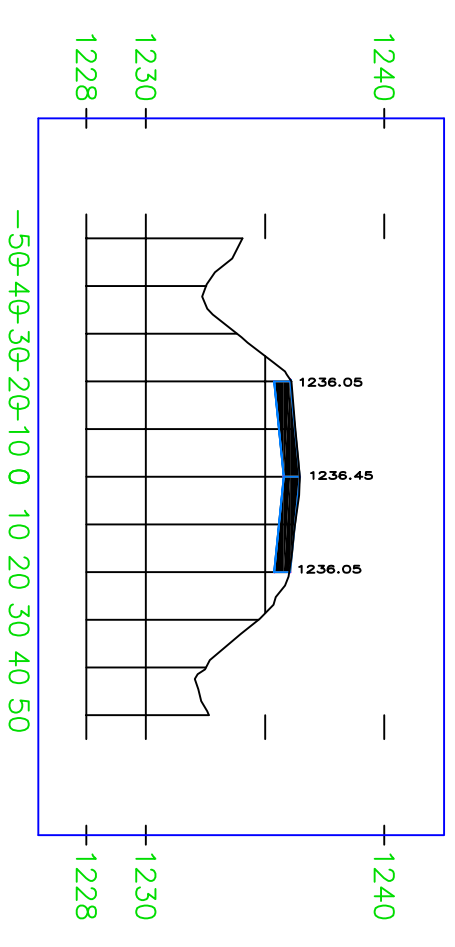
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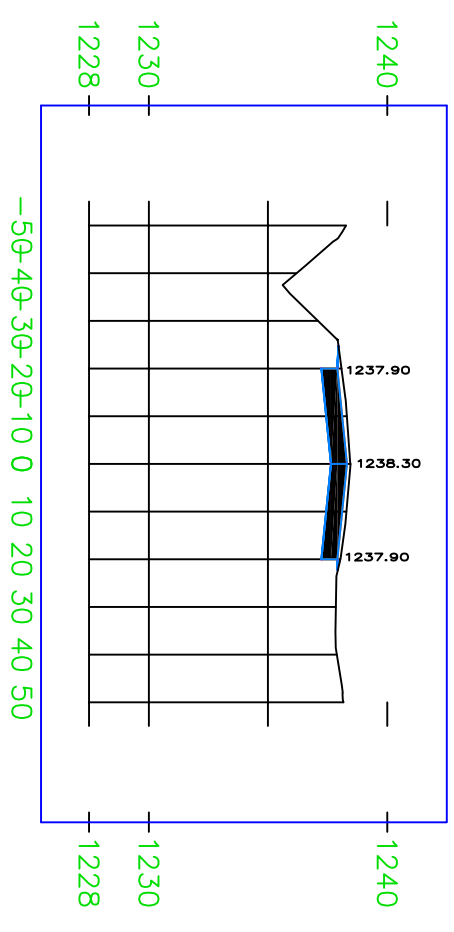
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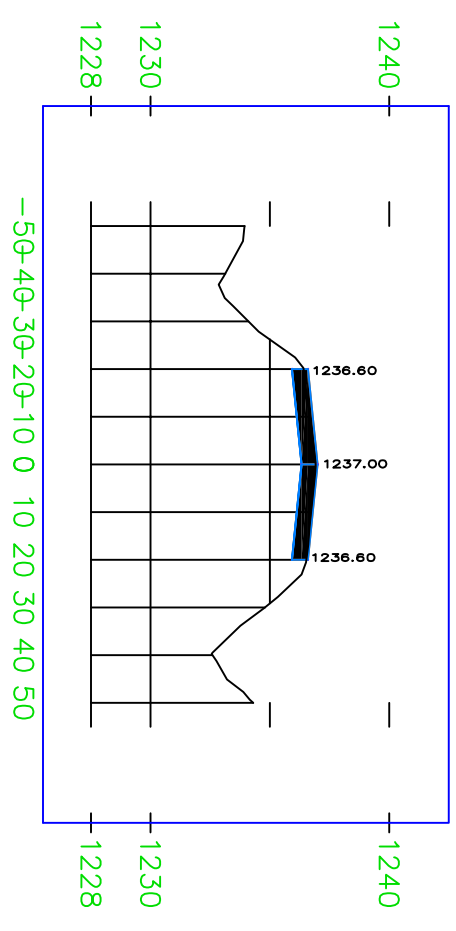
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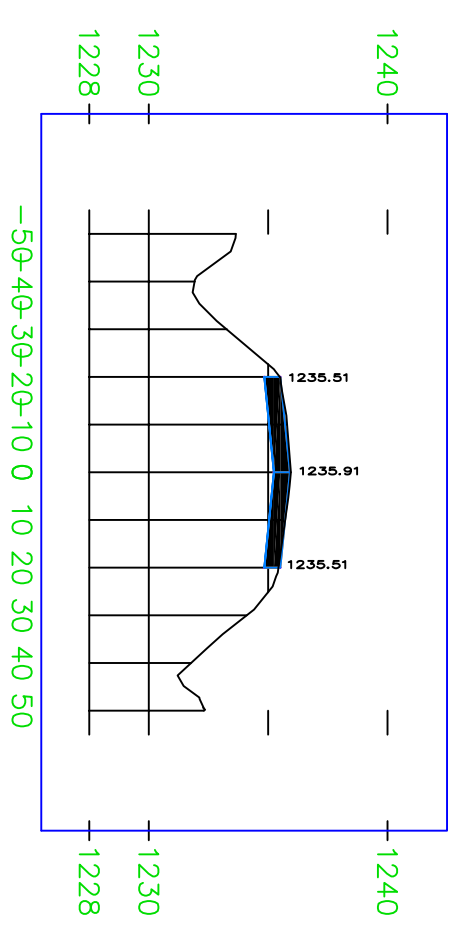
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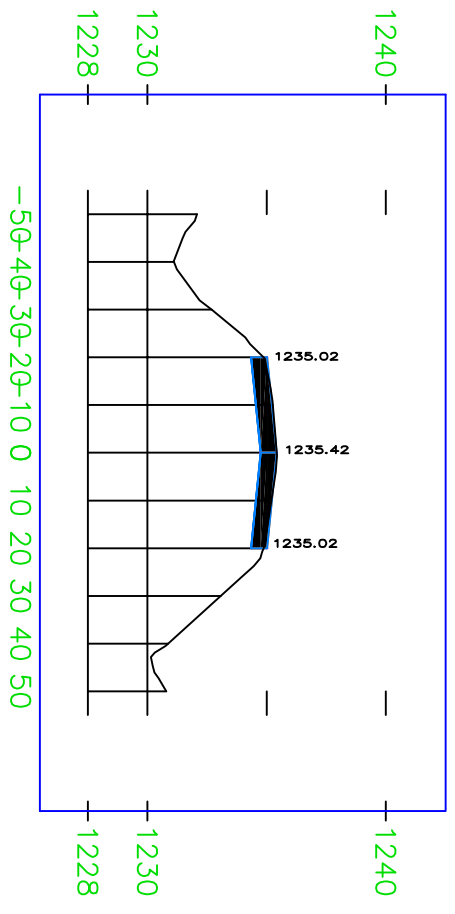


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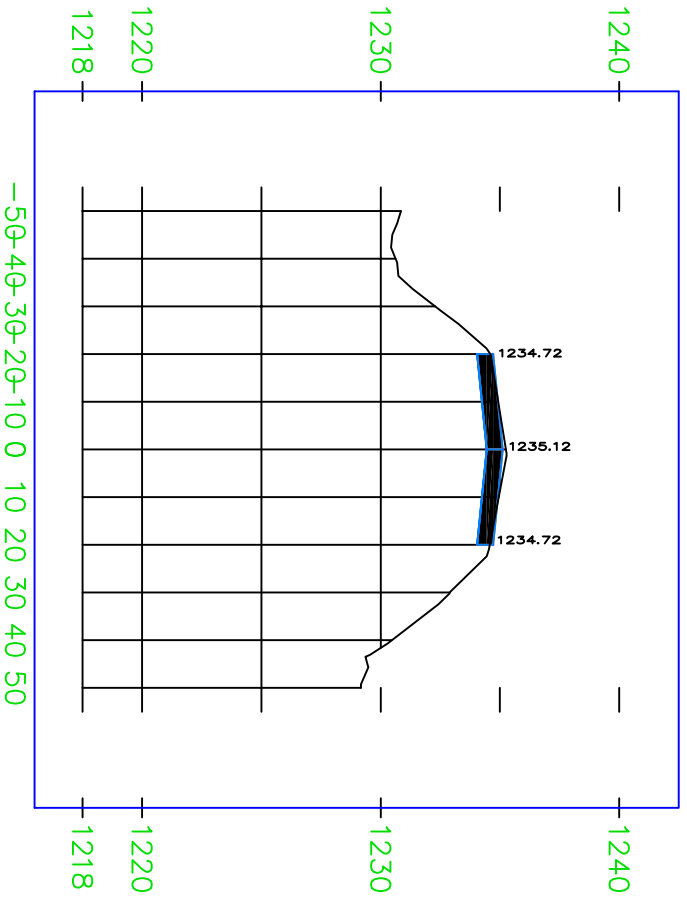


PROJECT	2017-042	SHEET NO.	74	TOTAL SHEETS	83
X-SECTIONS				1/19/2018	

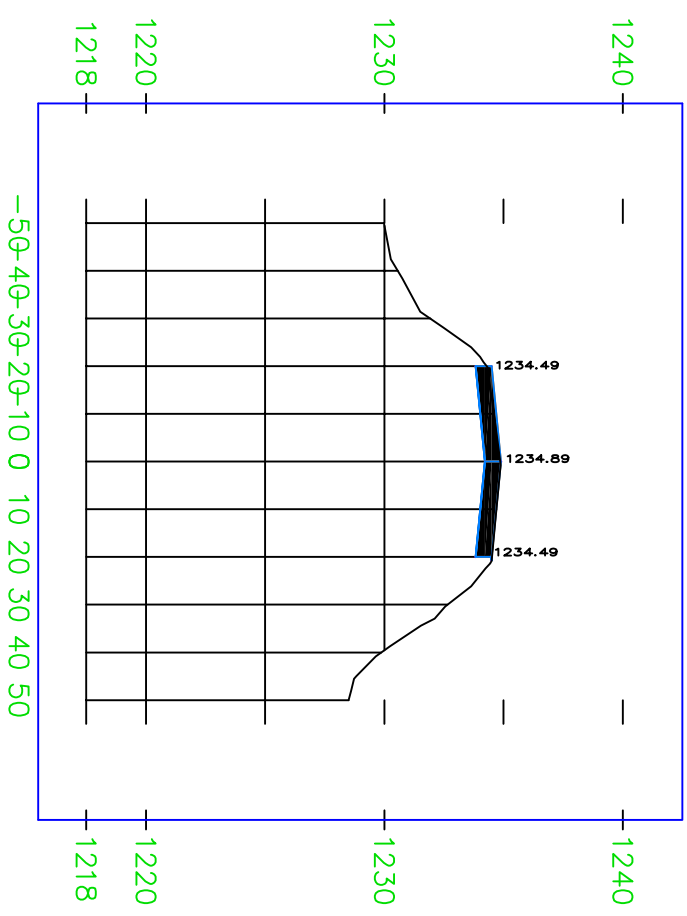
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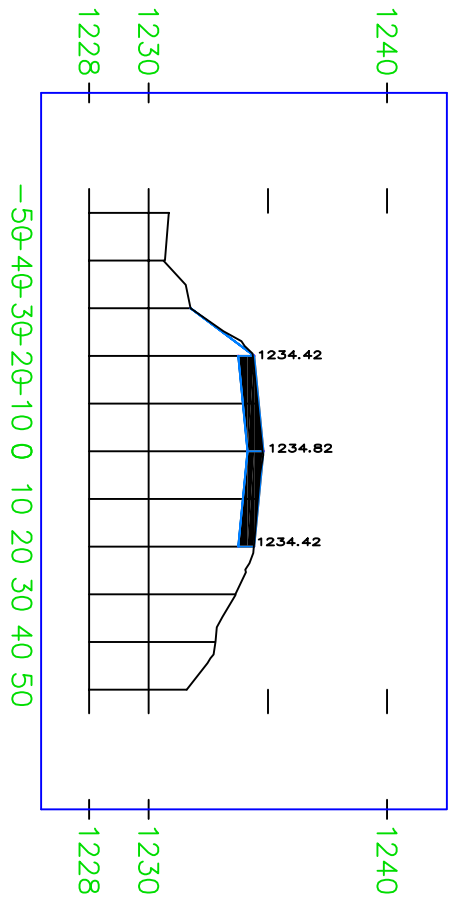
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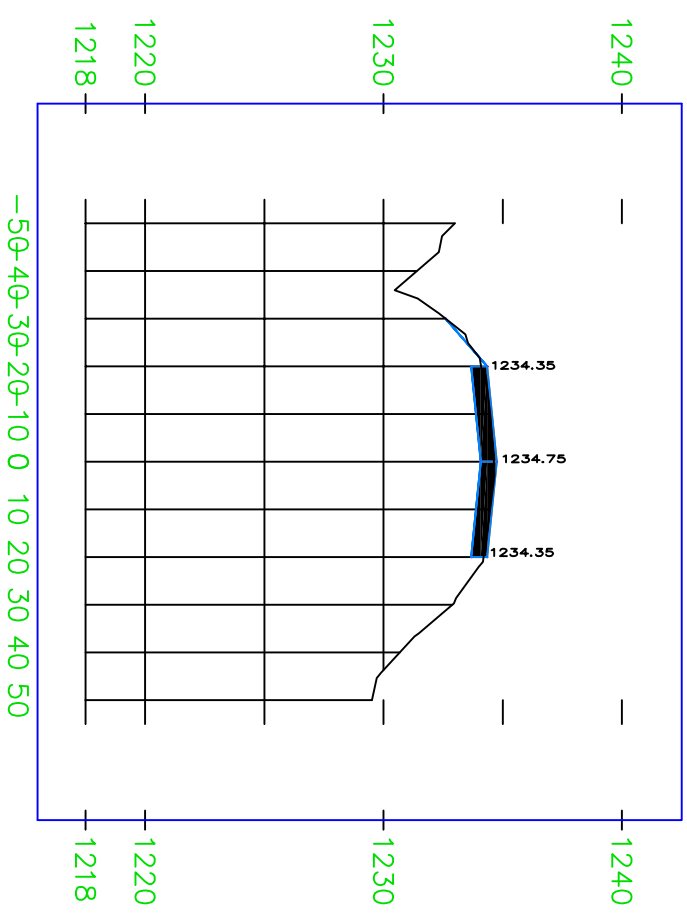
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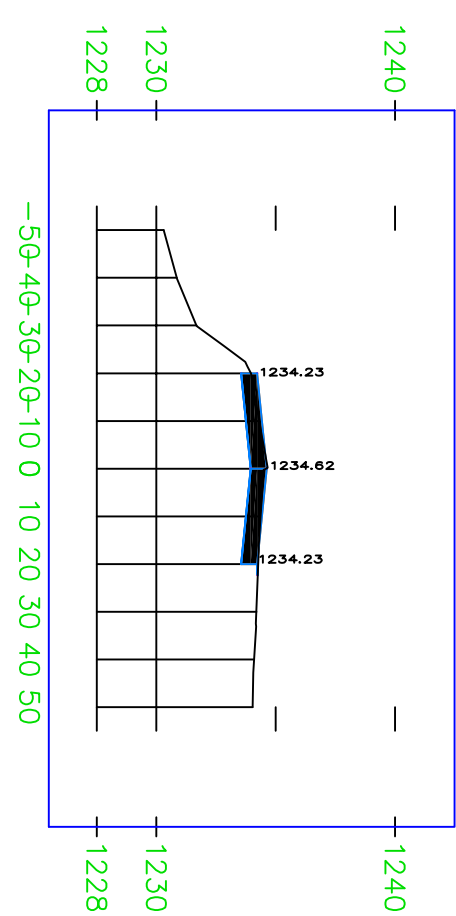
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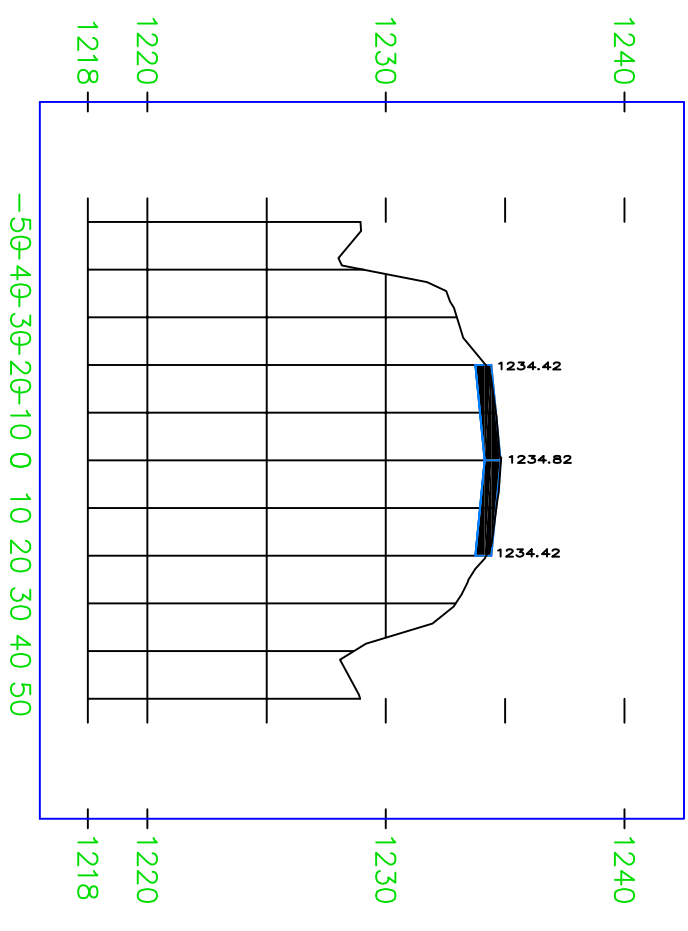


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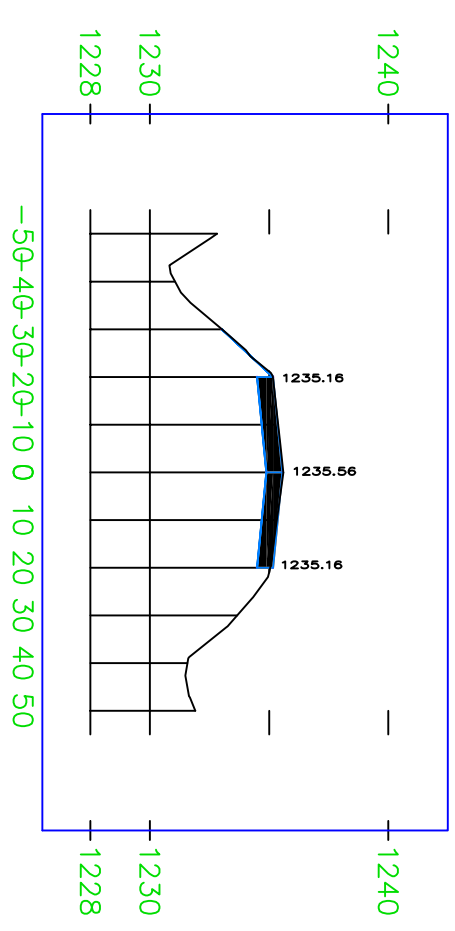


PROJECT	2017-042	SHEET NO.	75	TOTAL SHEETS	83
X-SECTIONS				1/19/2018	

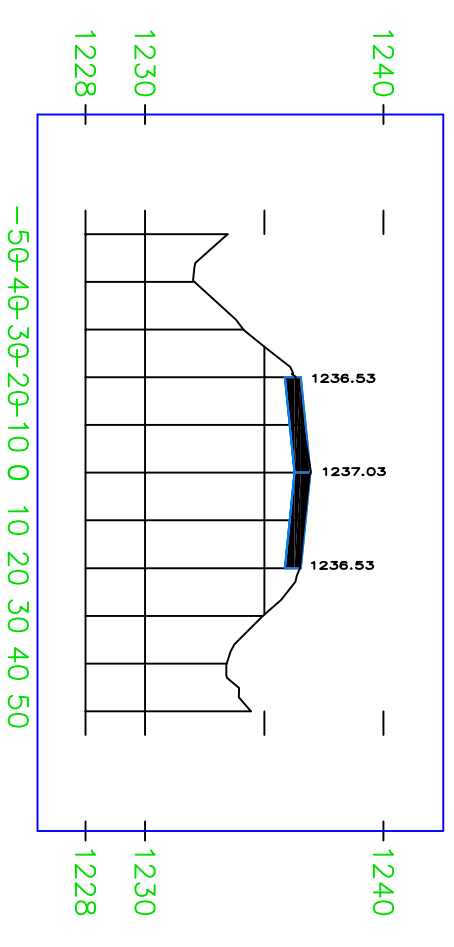
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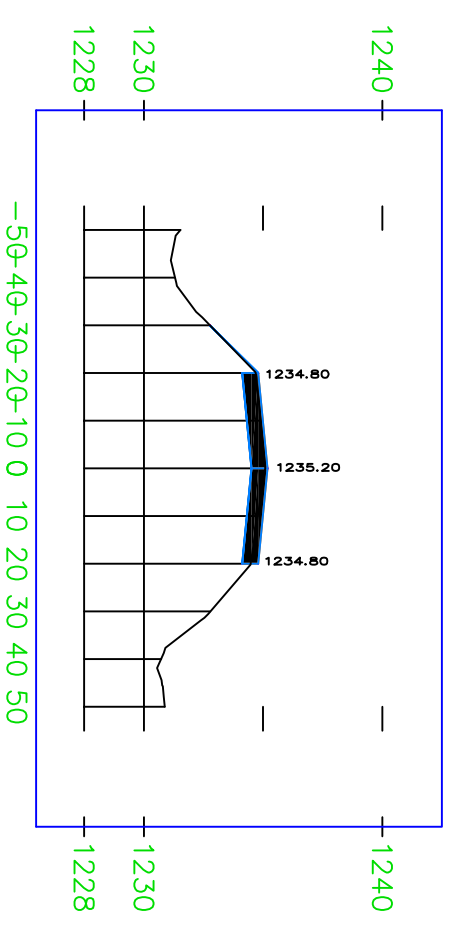
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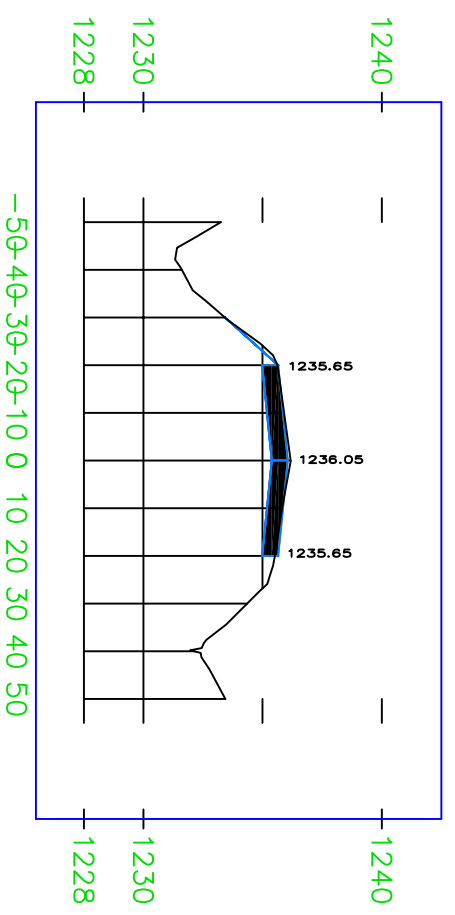
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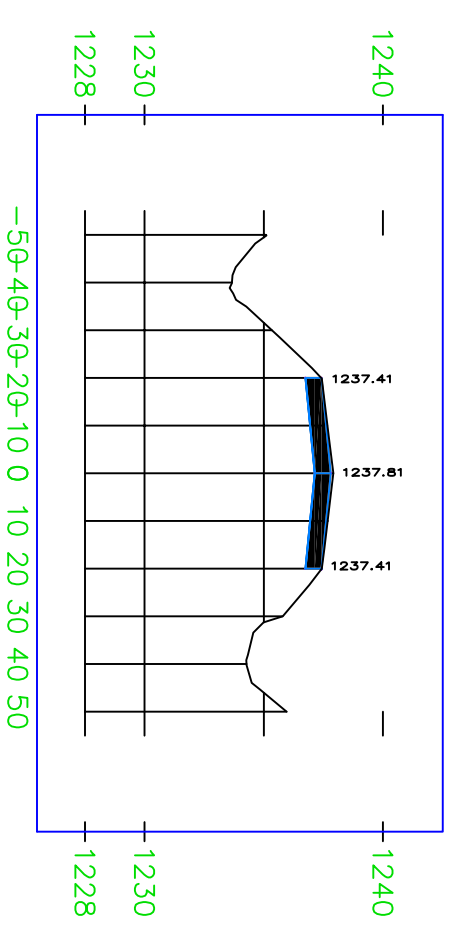
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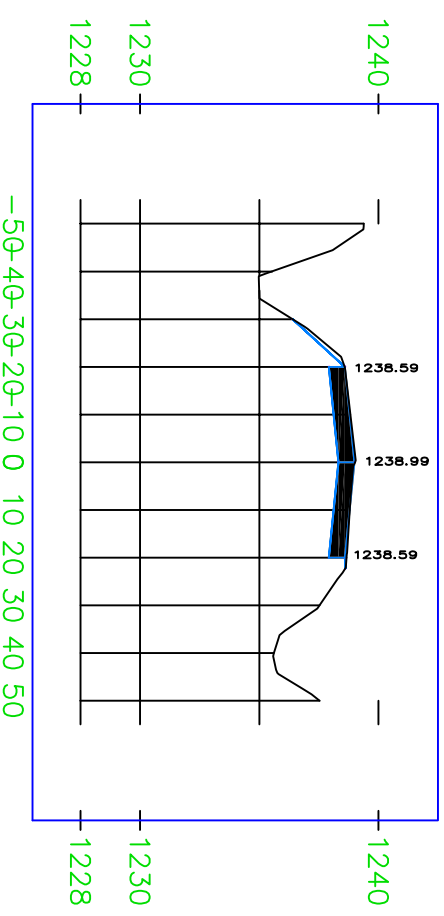


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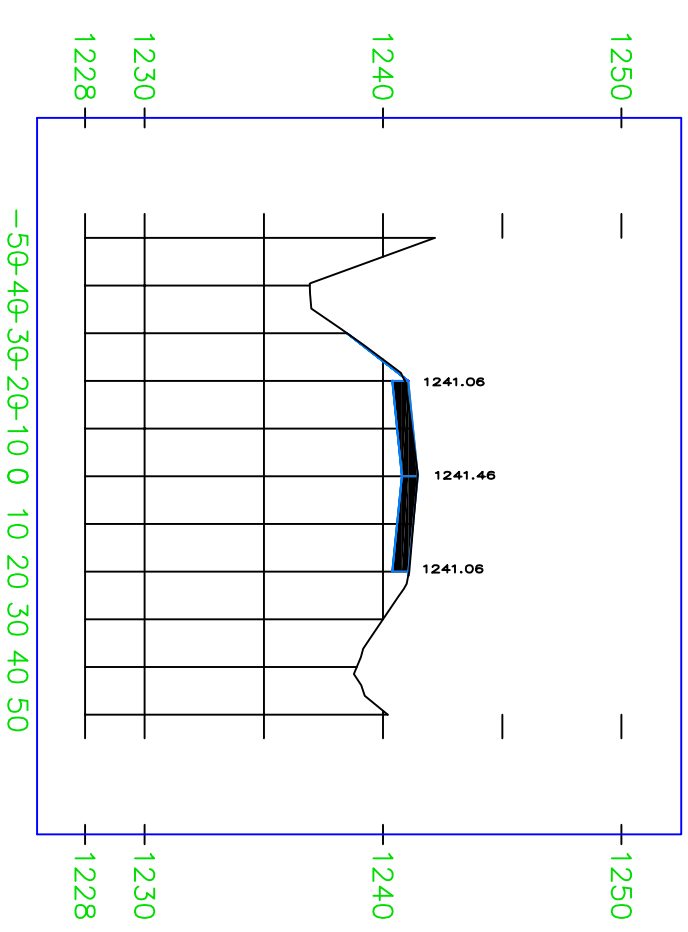


PROJECT	2017-042	SHEET NO.	76	TOTAL SHEETS	83
X-SECTIONS					1/19/2018

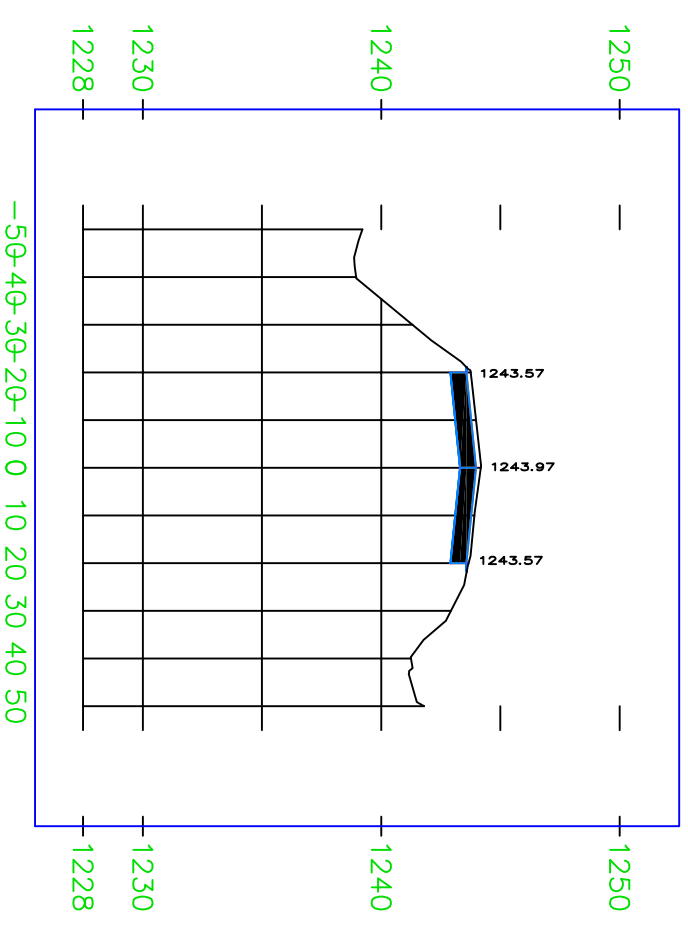
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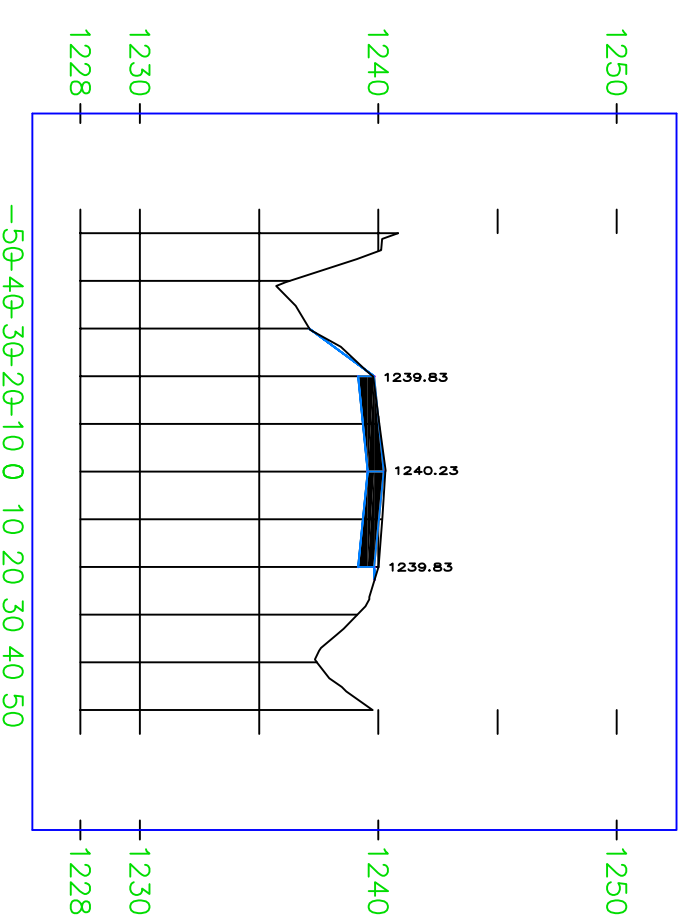
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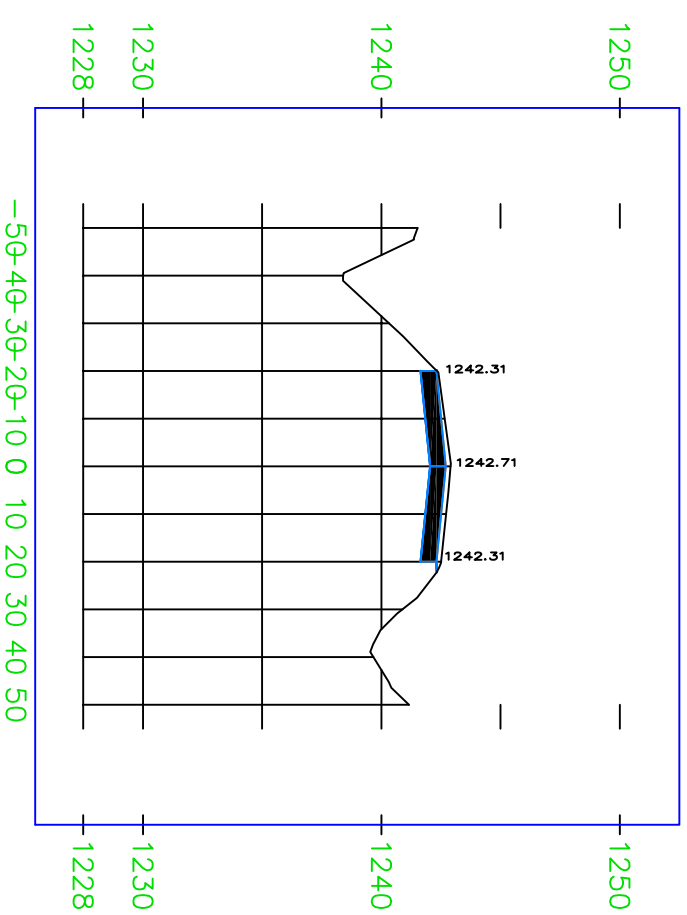
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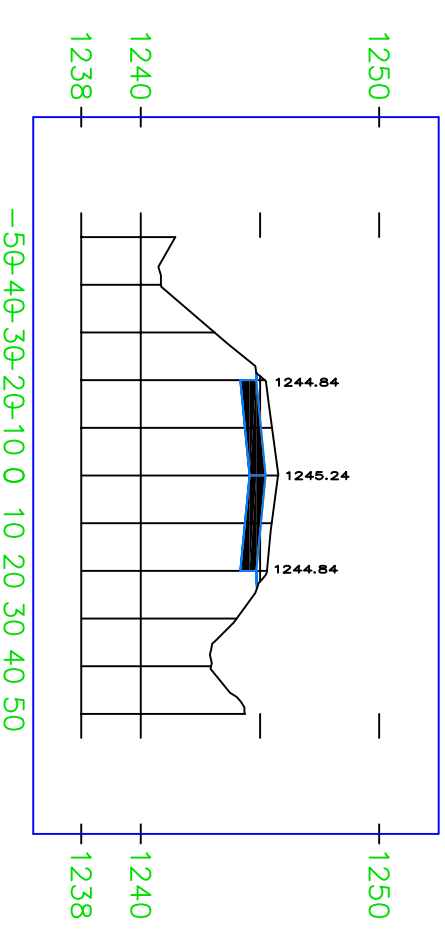
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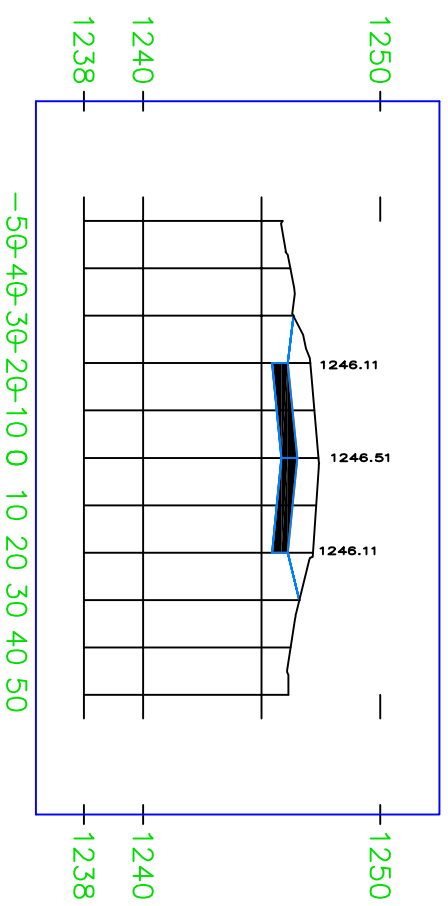
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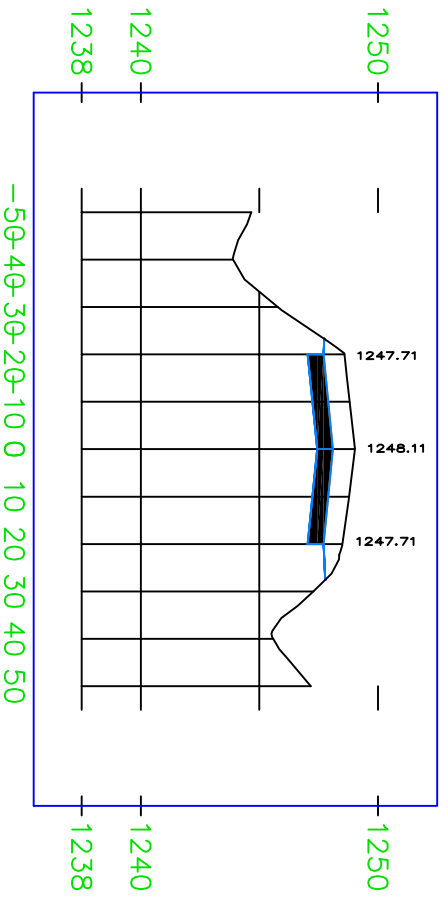
# WCLR X-SECTIONS

PROJECT	2017-042	SHEET NO.	77	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

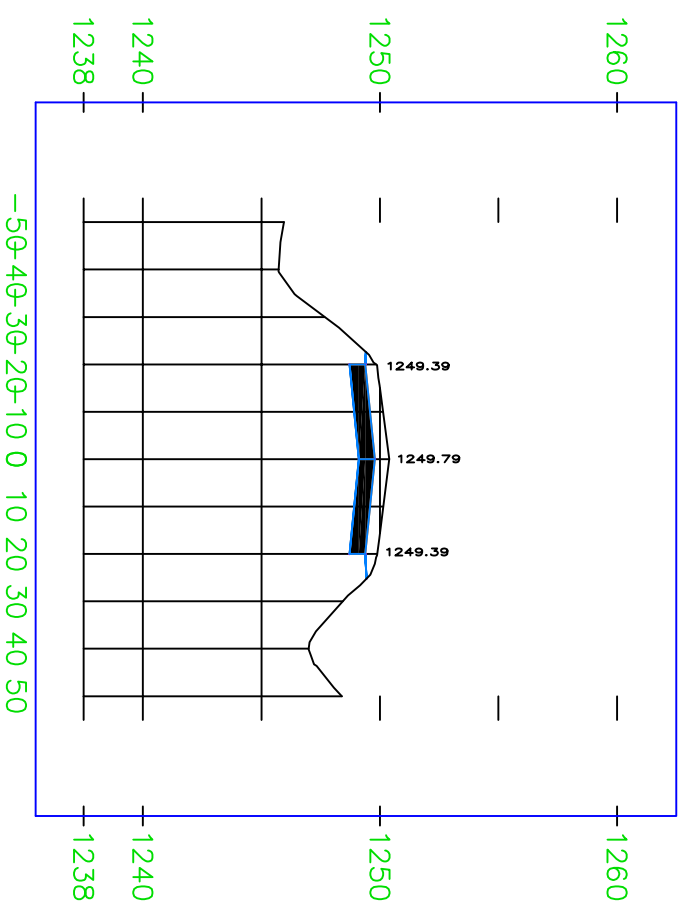
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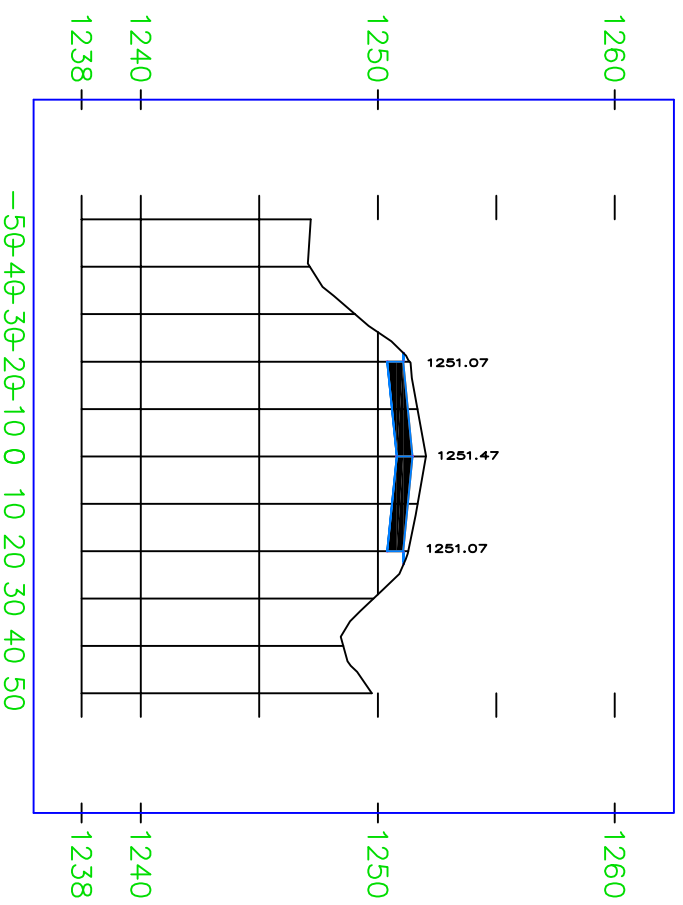
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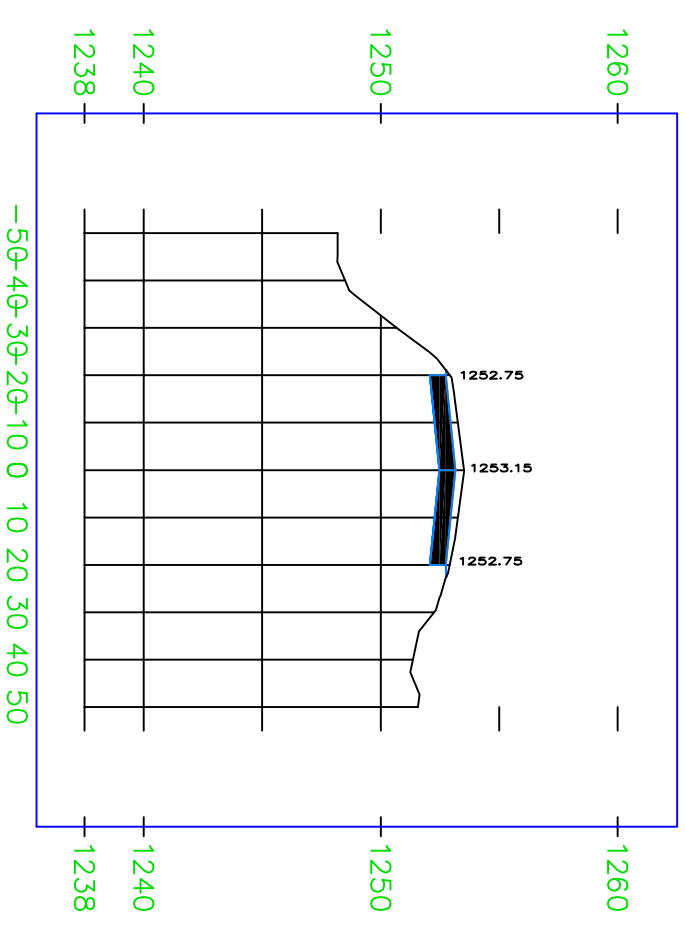
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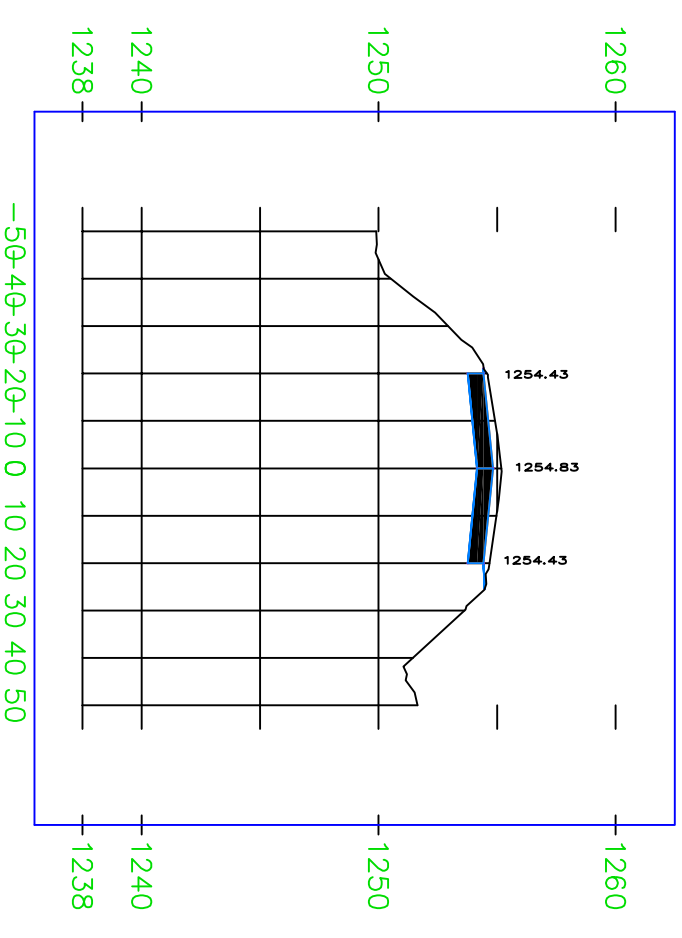
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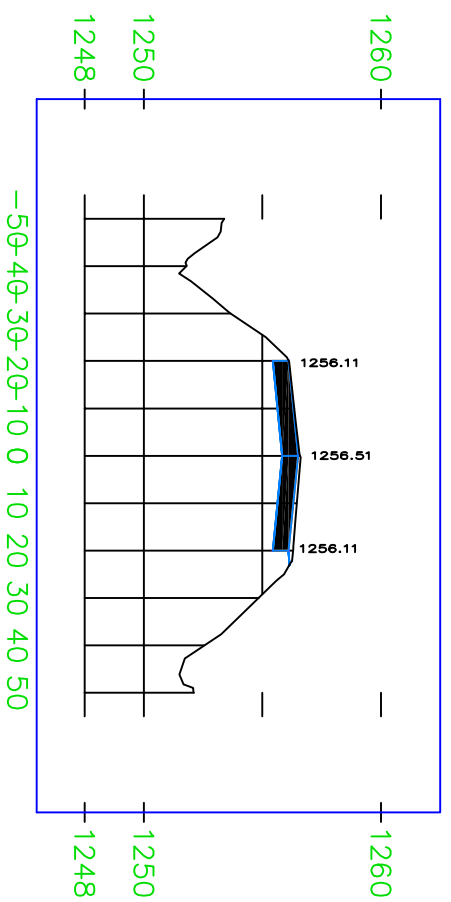
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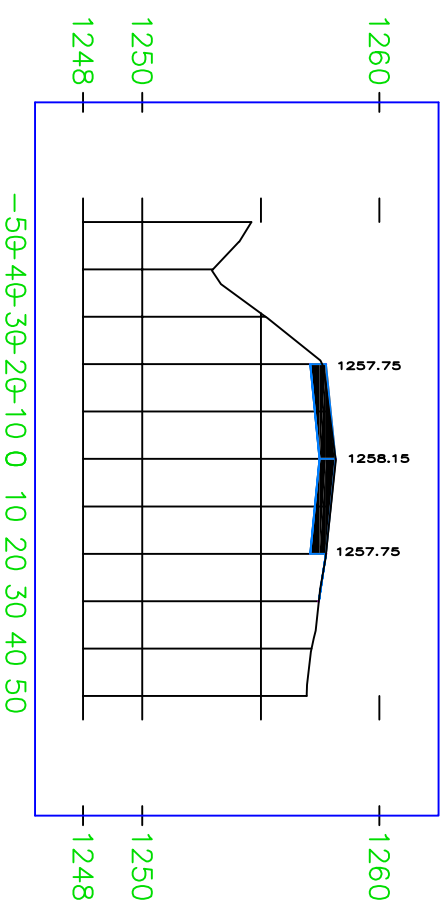
# WCLR X-SECTIONS

PROJECT	2017-042	SHEET NO.	78	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

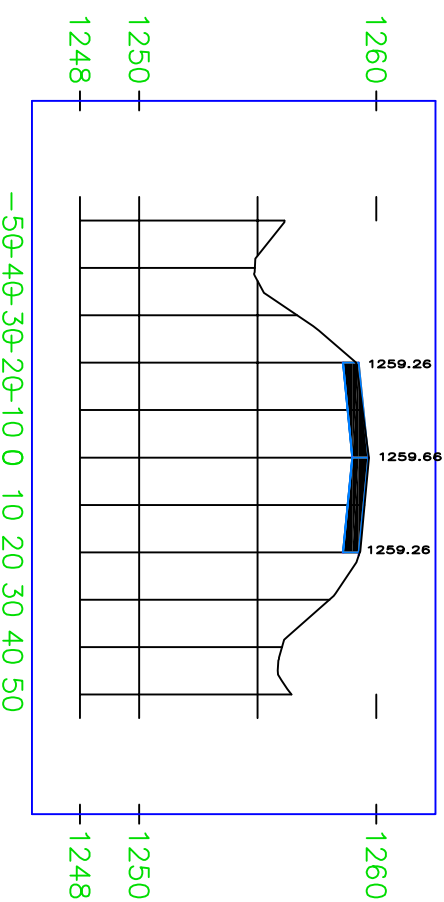
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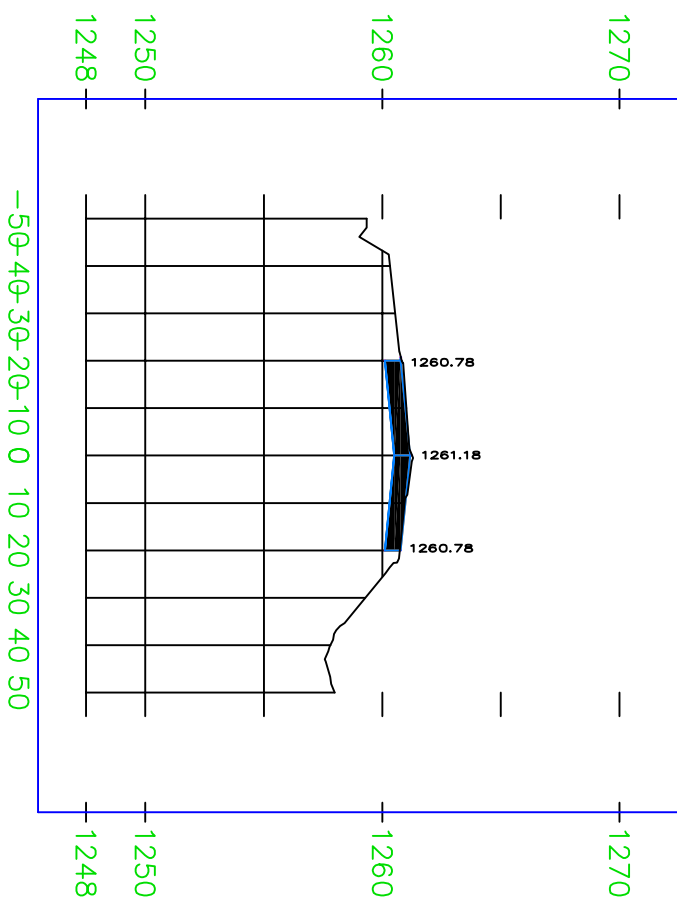
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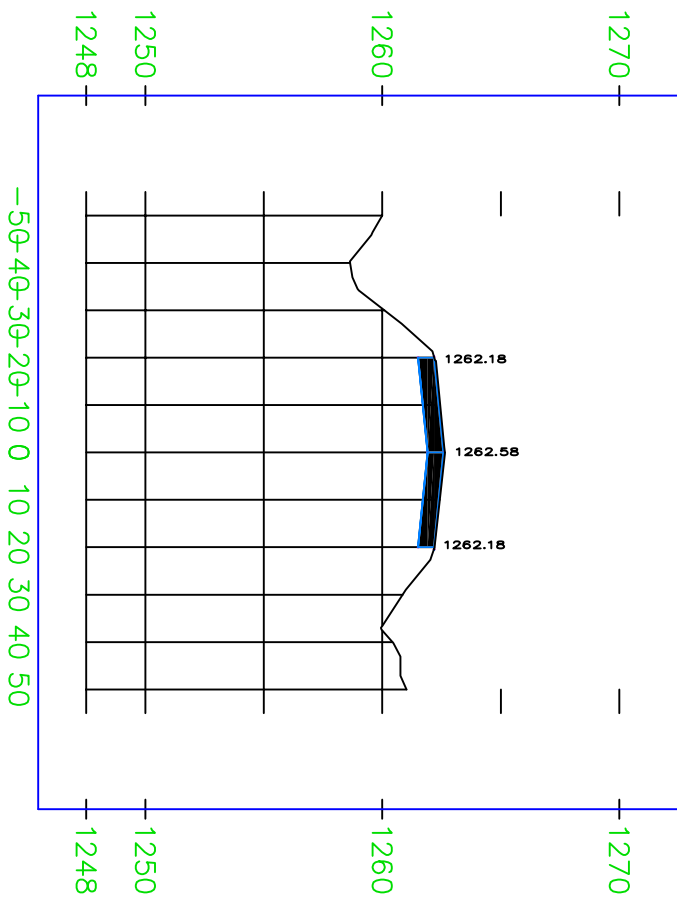
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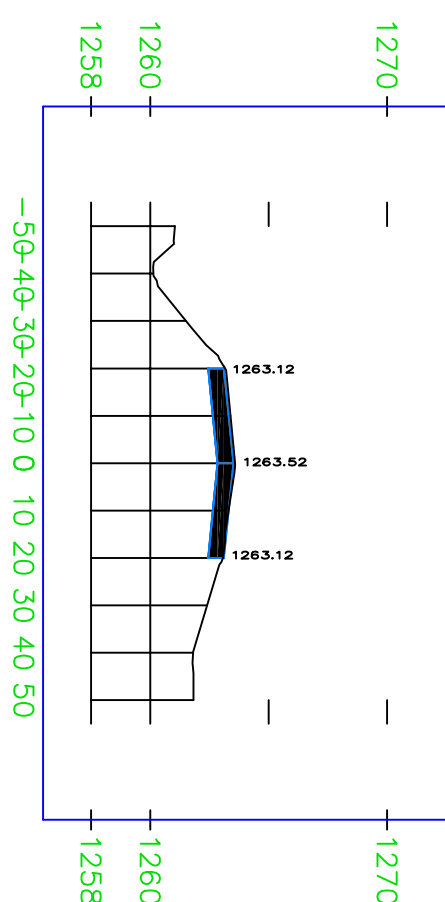
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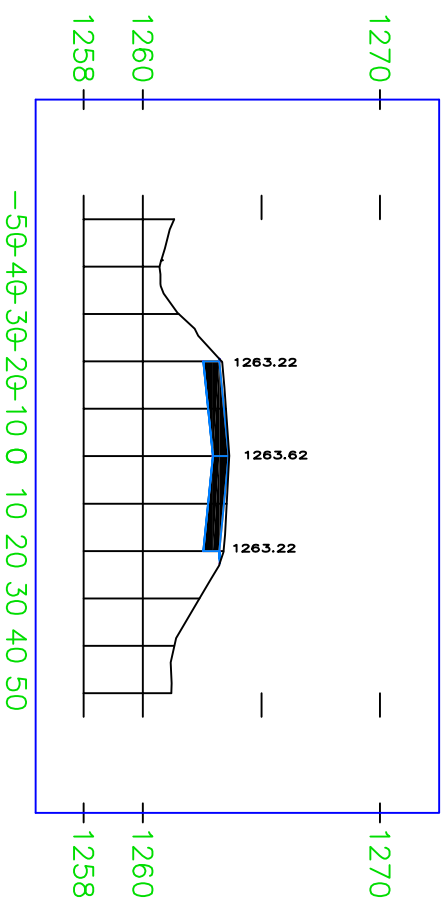




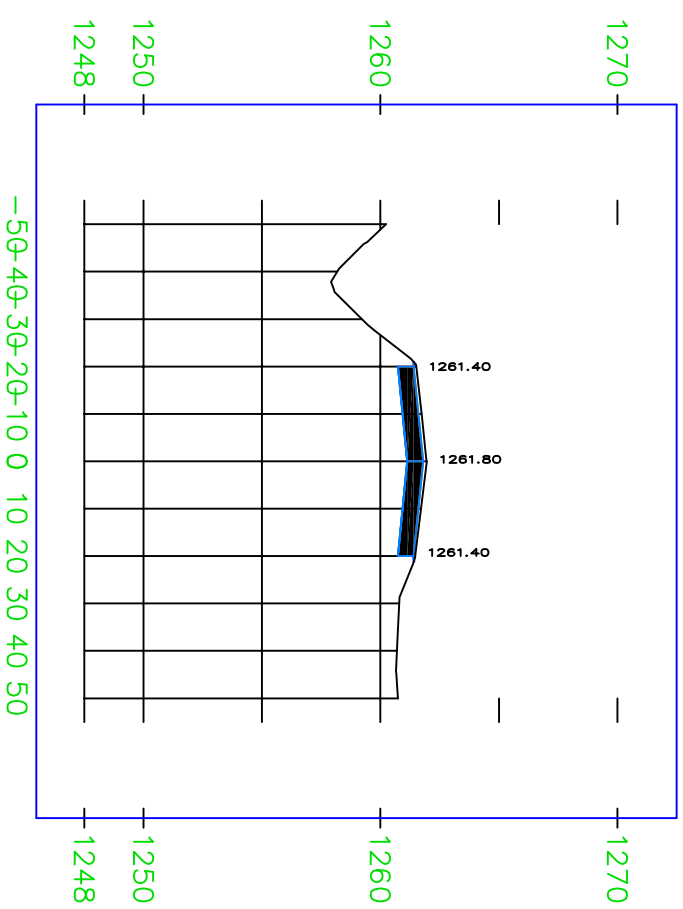
# WCLR X-SECTIONS

PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	79	83
X-SECTIONS	1/23/2018	

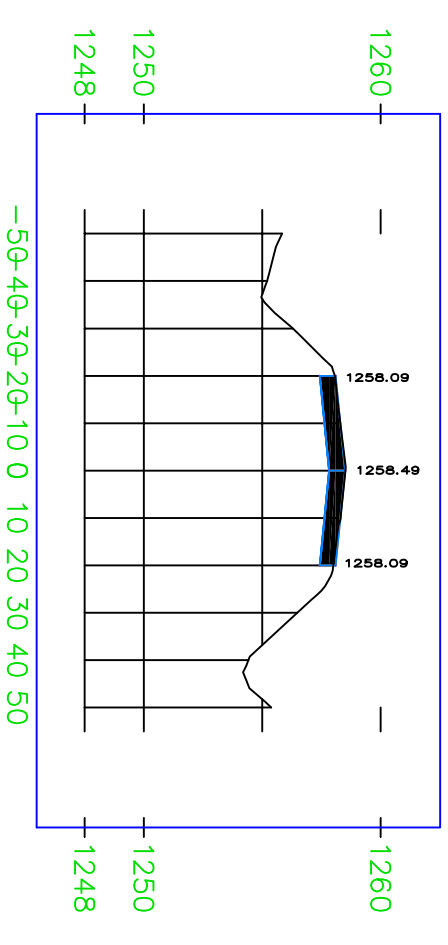
73+00.00



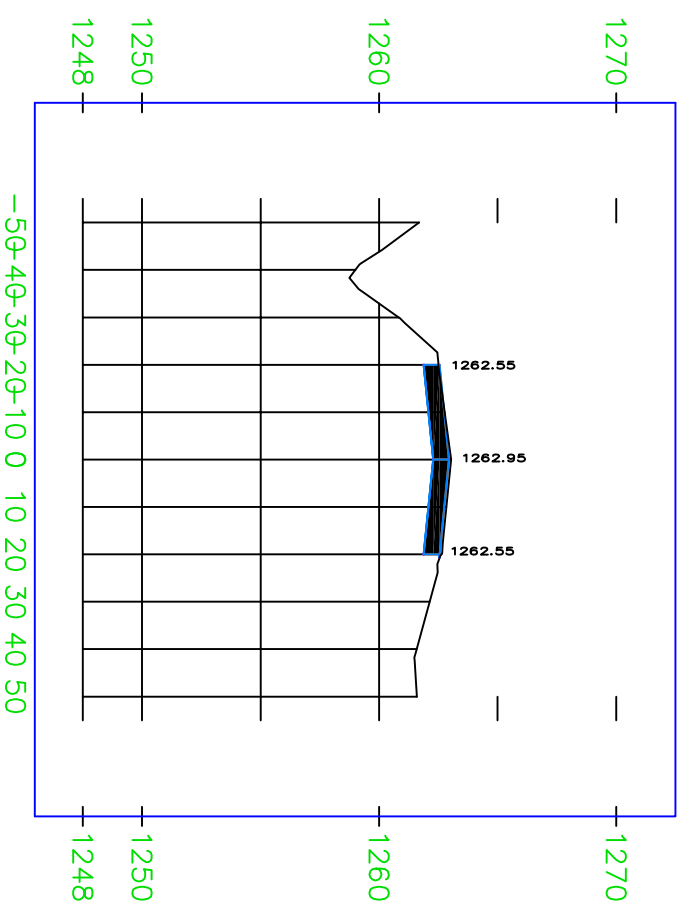
75+00.00



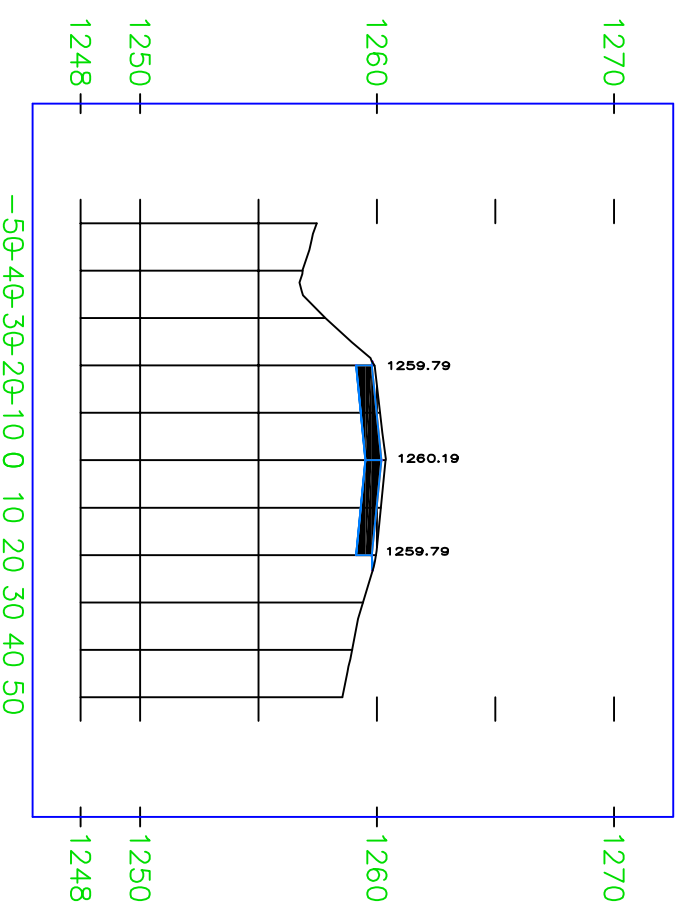
77+00.00



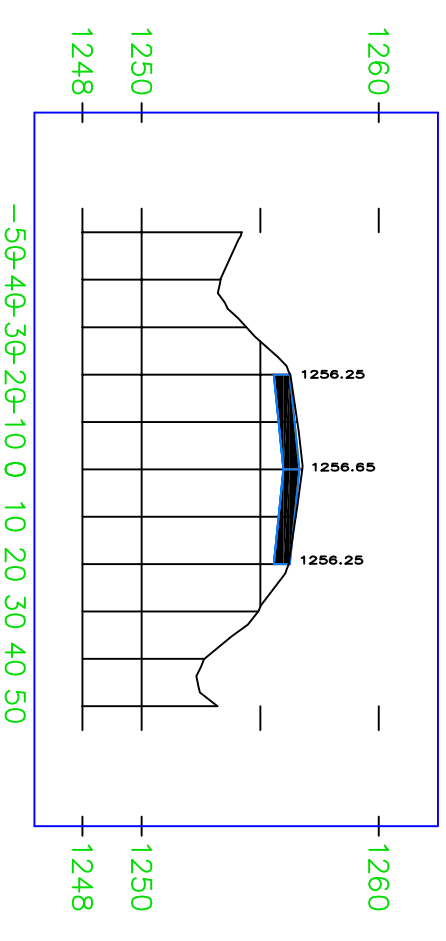
74+00.00



76+00.00



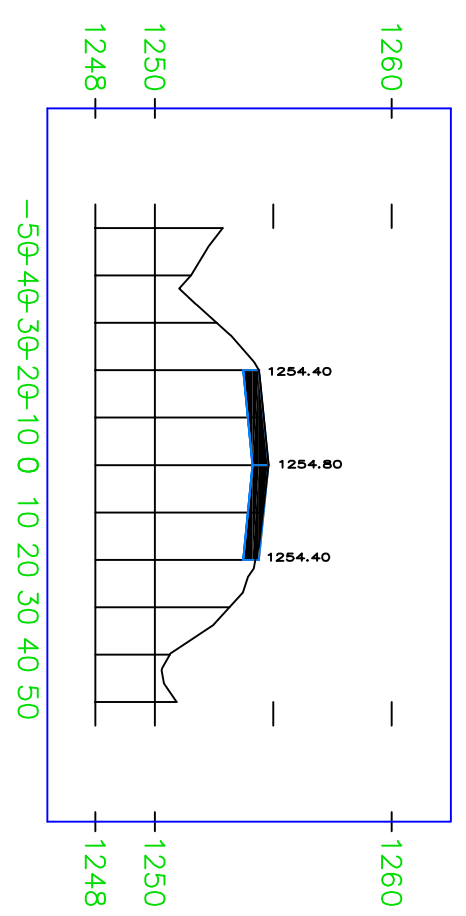
78+00.00



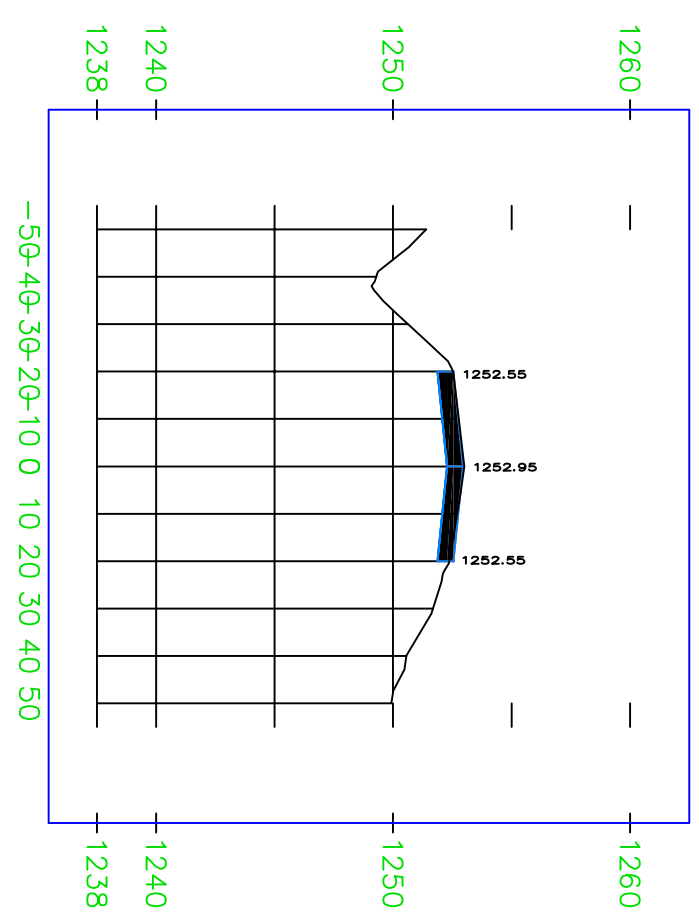
PROJECT	2017-042	SHEET NO.	80	TOTAL SHEETS	83
X-SECTIONS		1/19/2018			

# WCLR X-SECTIONS

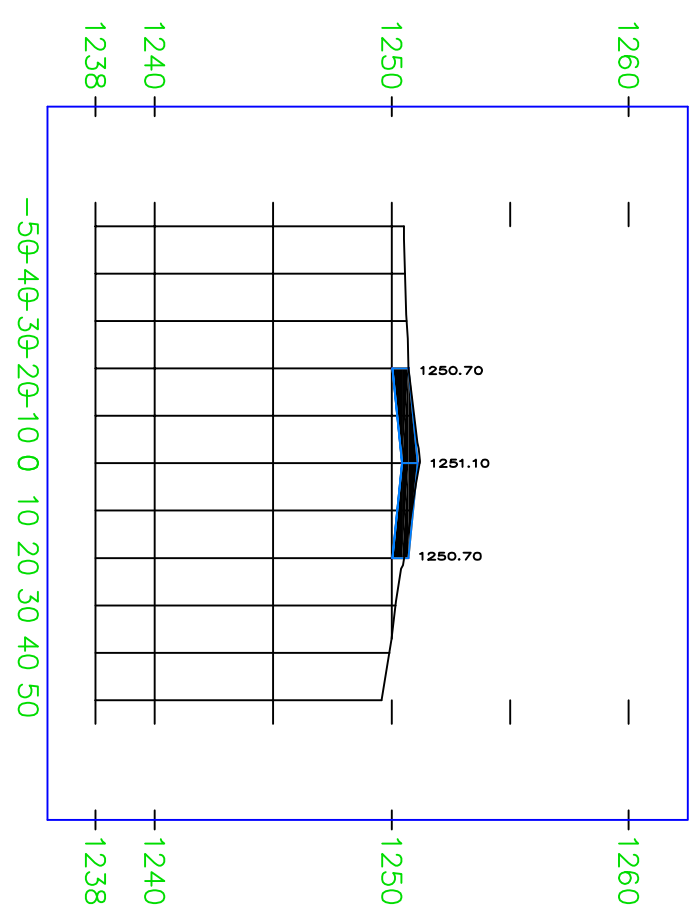
79+00.00



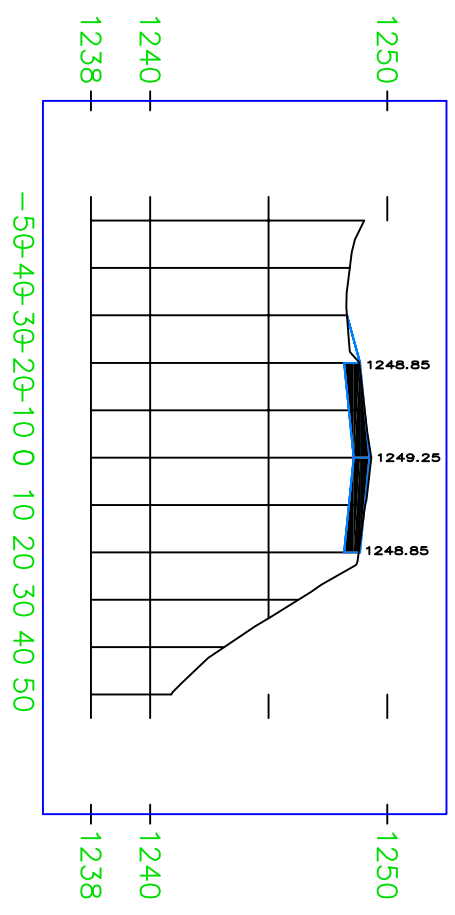
80+00.00



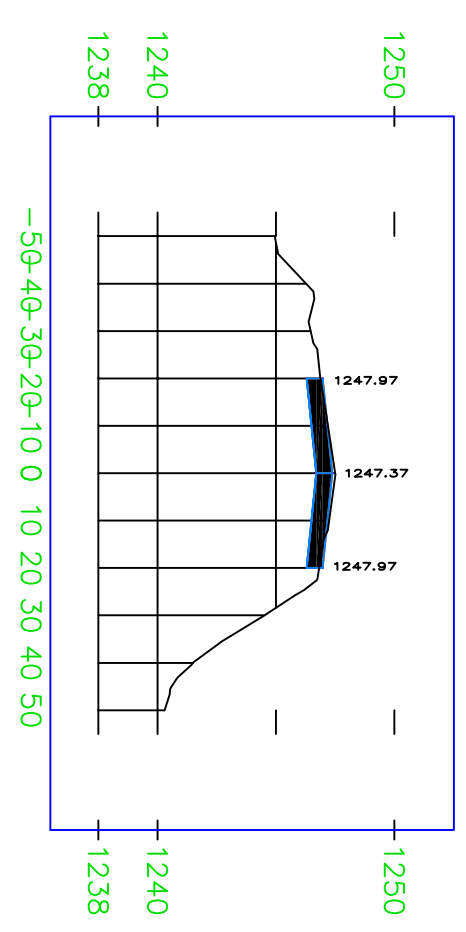
81+00.00



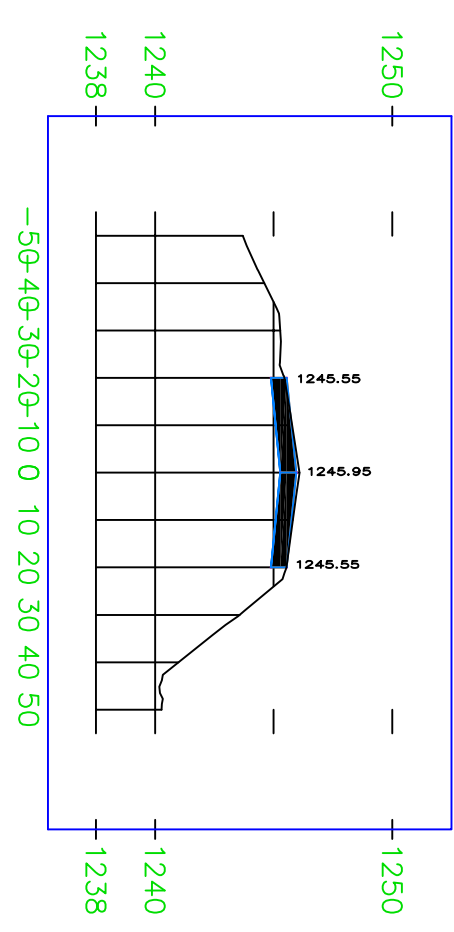
82+00.00



83+00.00



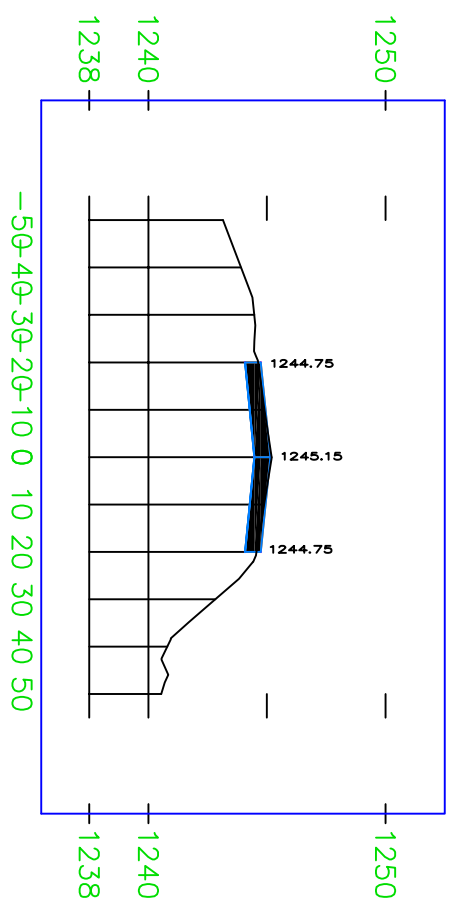
84+00.00



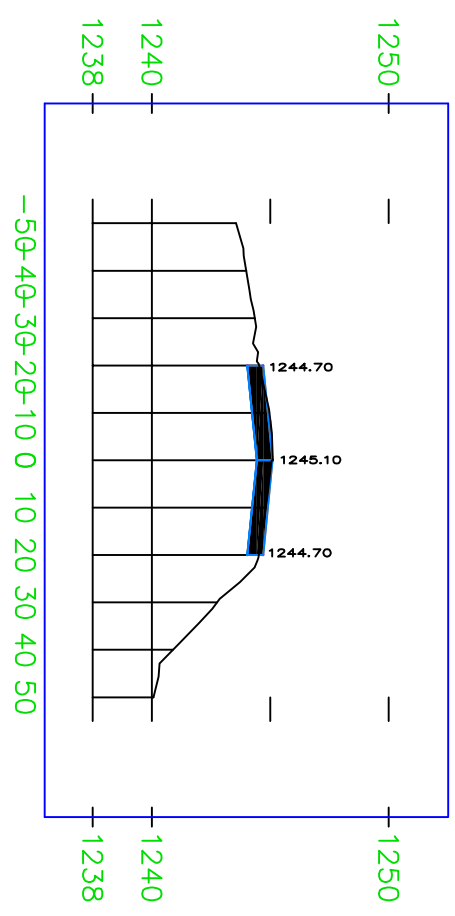
PROJECT	2017-042	SHEET NO.	81	TOTAL SHEETS	83
X-SECTIONS			1/19/2018		

# WCLR X-SECTIONS

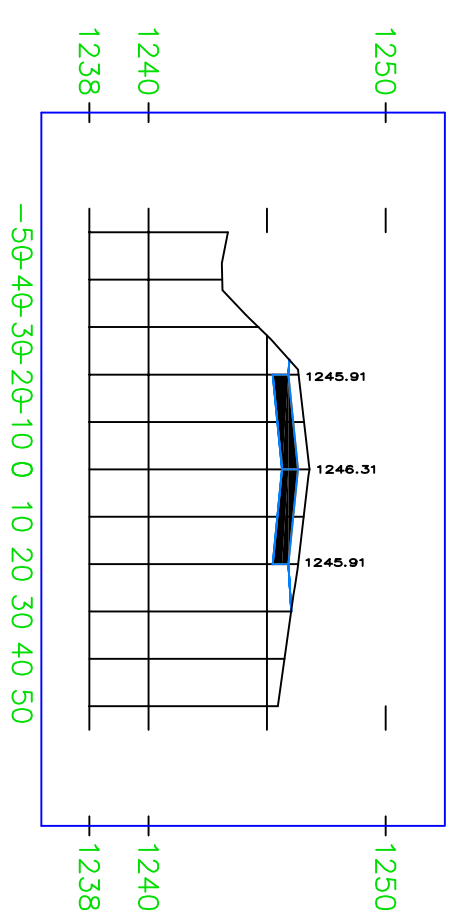
85+00.00



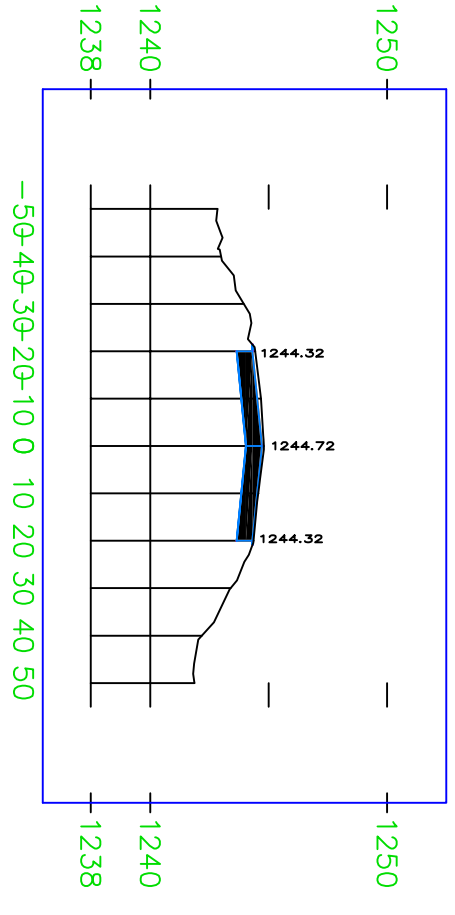
87+00.00



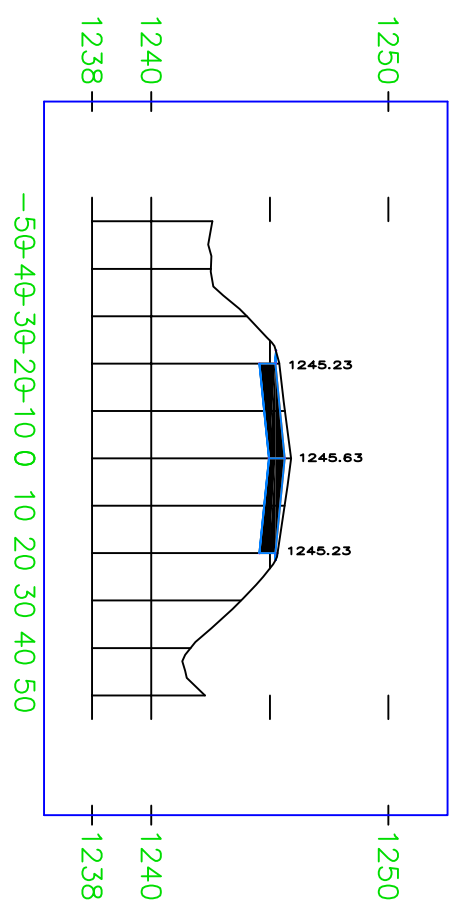
89+00.00



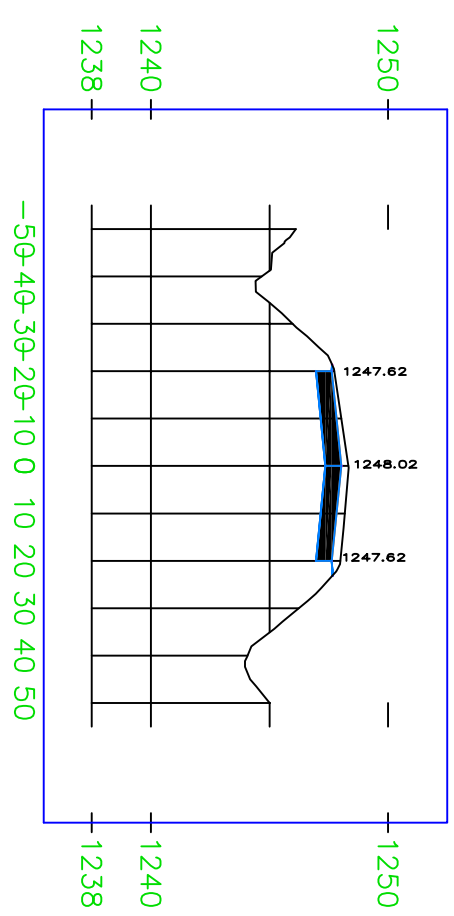
86+00.00



88+00.00



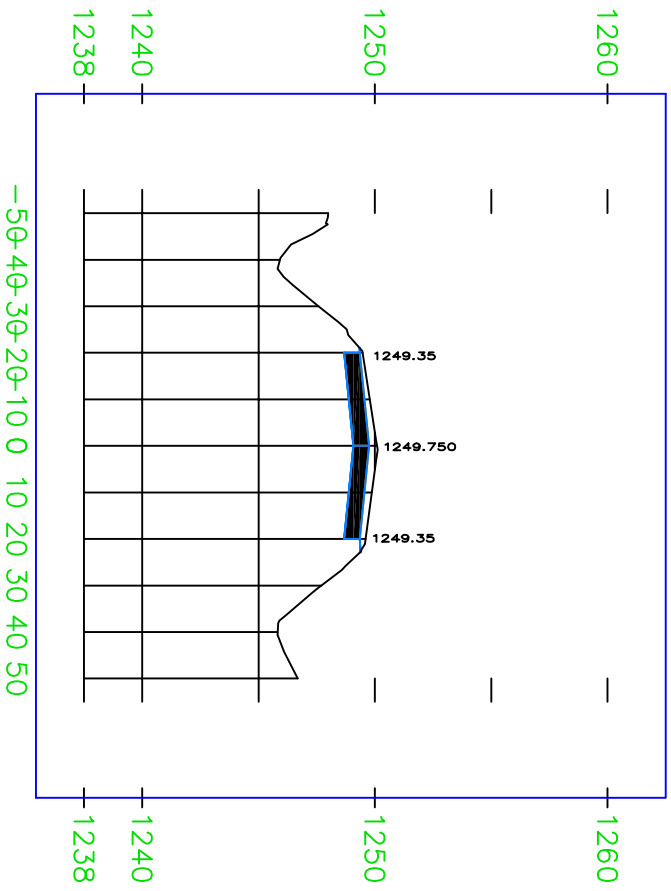
90+00.00



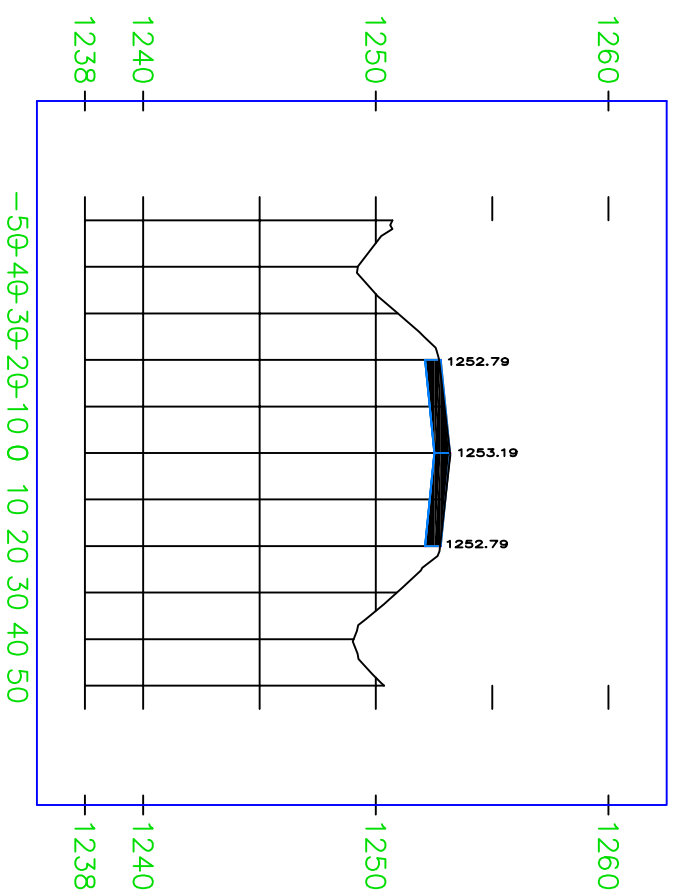
# WCLR X-SECTIONS

PROJECT	SHEET NO.	TOTAL SHEETS
2017-042	82	83
X-SECTIONS	1/19/2018	

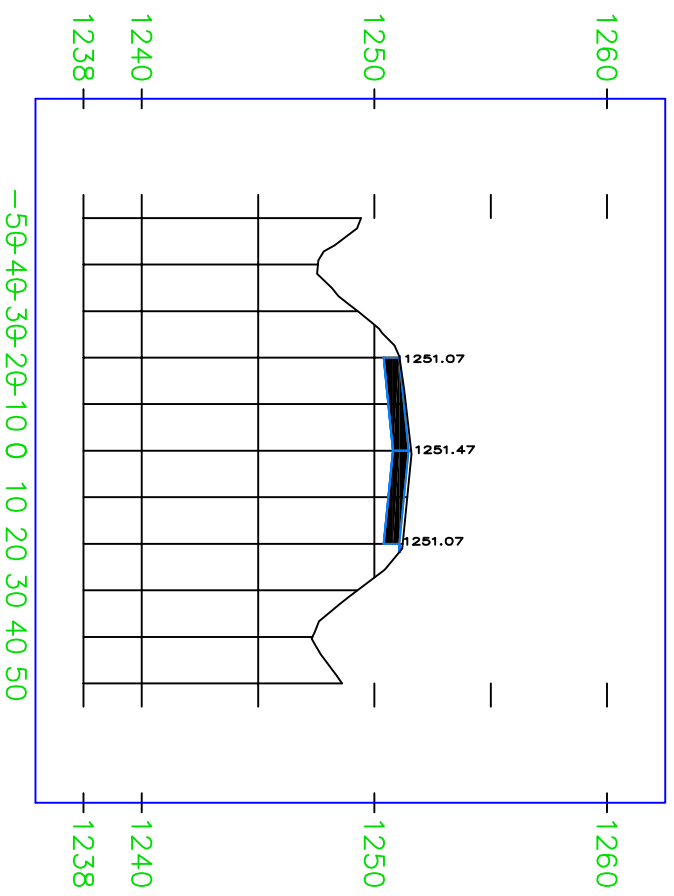
91+00.00



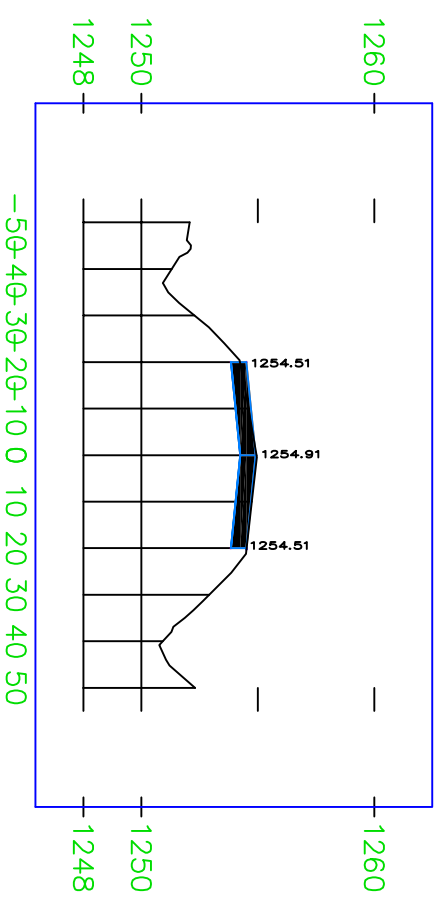
93+00.00



92+00.00



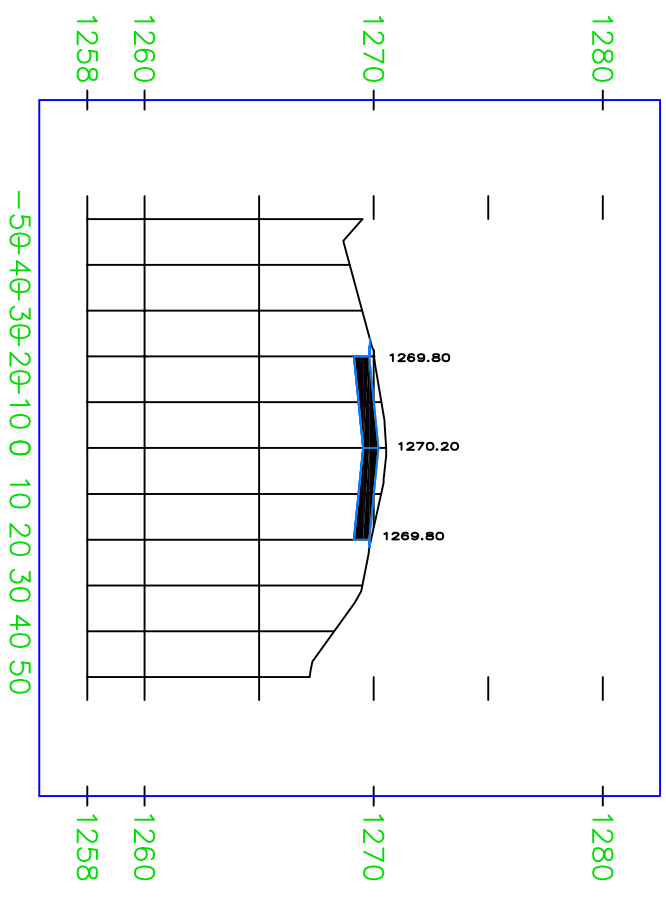
94+00.00



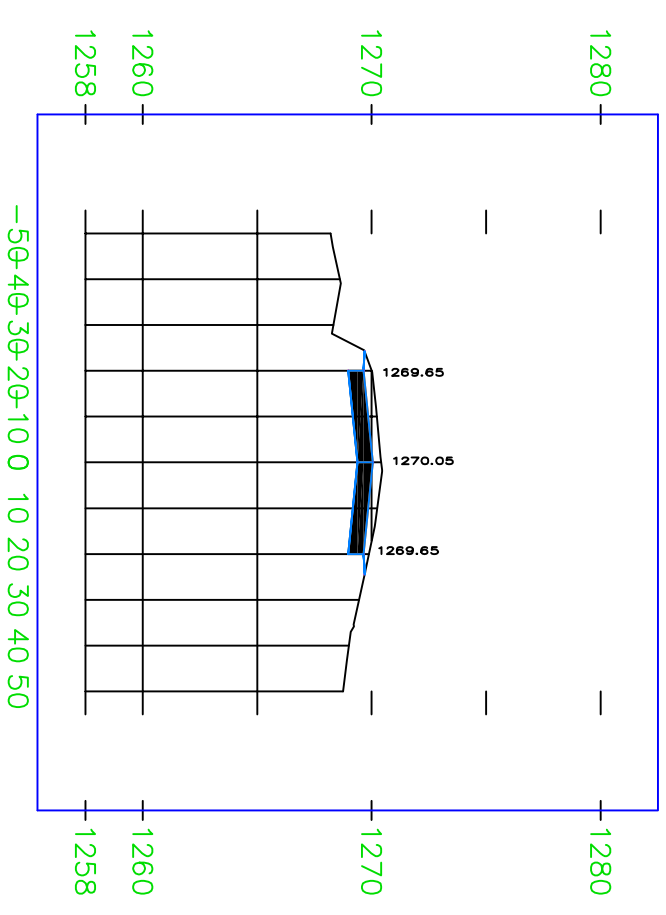
PROJECT		TOTAL	
2017-042		SHEET NO.	SHEETS
		83	83
X-SECTIONS		1/19/2018	

# N-WCLR X-SECTIONS (30TH TO 31ST)

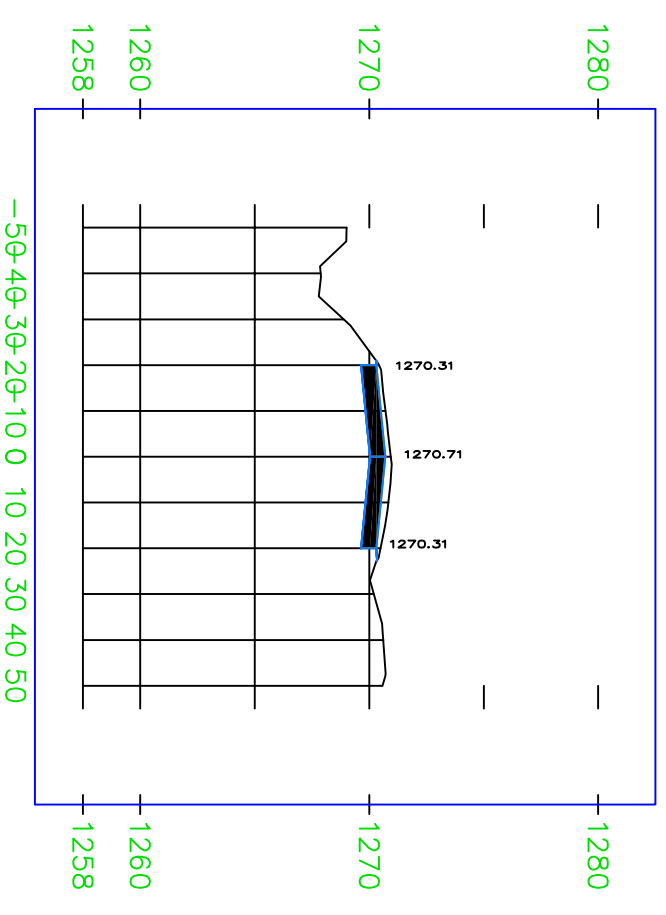
2+00.00



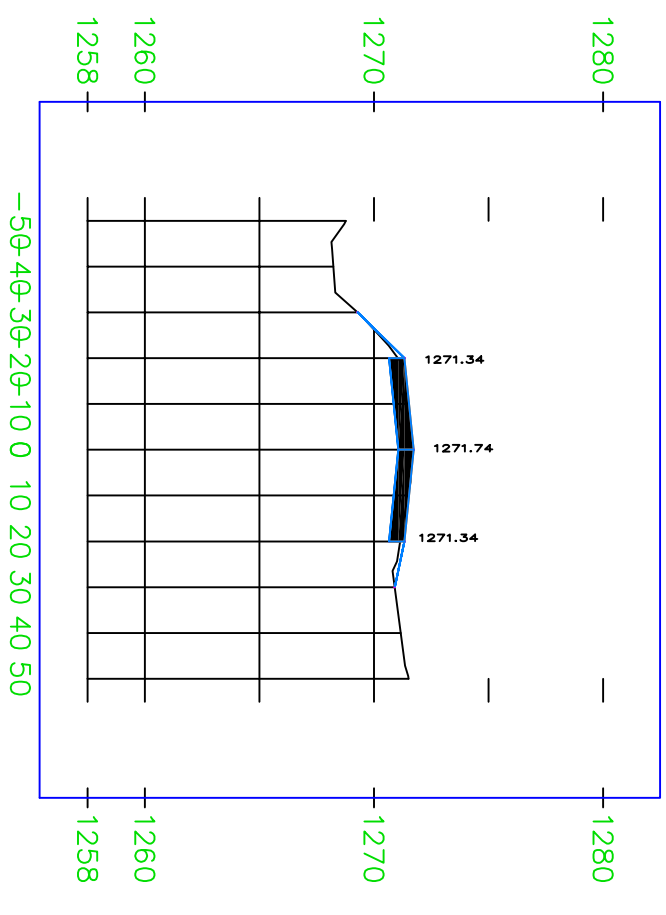
2+36.00



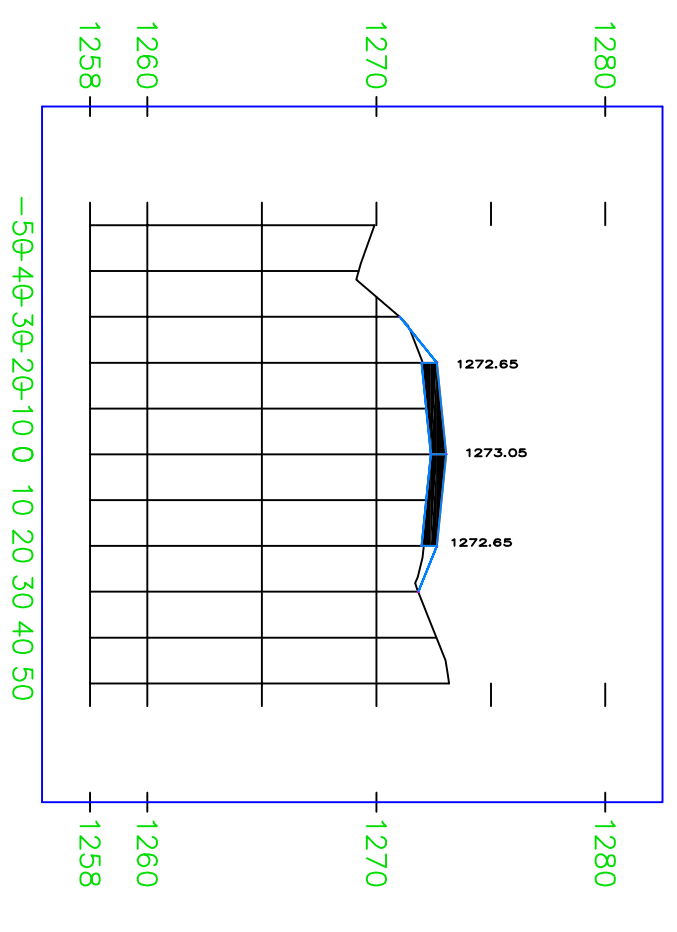
3+00.00



4+00.00



5+00.00



5+50.00

