

Dr. 8 - BK. 11

MAINT. SURVEY.
CO. ROAD "F"

Over Cul. $\frac{1}{2}$ Mi. E of Rice St.
ROAD $\frac{1}{2}$ N^o 56

Office of Ramsey Co. Engineer
ST. PAUL, MINN.

Date Filed 6-10-25

File No. "13"

MAINT. PROJ.

ROAD #56

County Road "F"

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Office of Ramsey Co. Engineer
ST. PAUL, MINN.

Date Filed 6/10/25

File No. 13

Station	Point	Lt. A	Rt.	Bear.
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50+74.19	Mon. Assumed Sta.			
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36+00	P.O.T.			
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27+73.7	P.O.T.			
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24+37.56	Mon. Assumed Sta.	0°00'		
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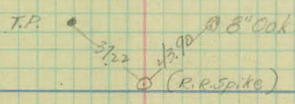
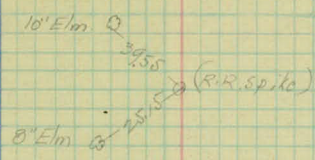
20+14.85	2 nd 30° Line			
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0+00	Assumed Sta.			
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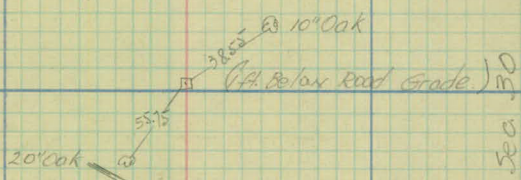
W.H.C.
 Seutup
 Persons
 Golvin
 Graham

June 9,
 1925

E. M. Menemy St.



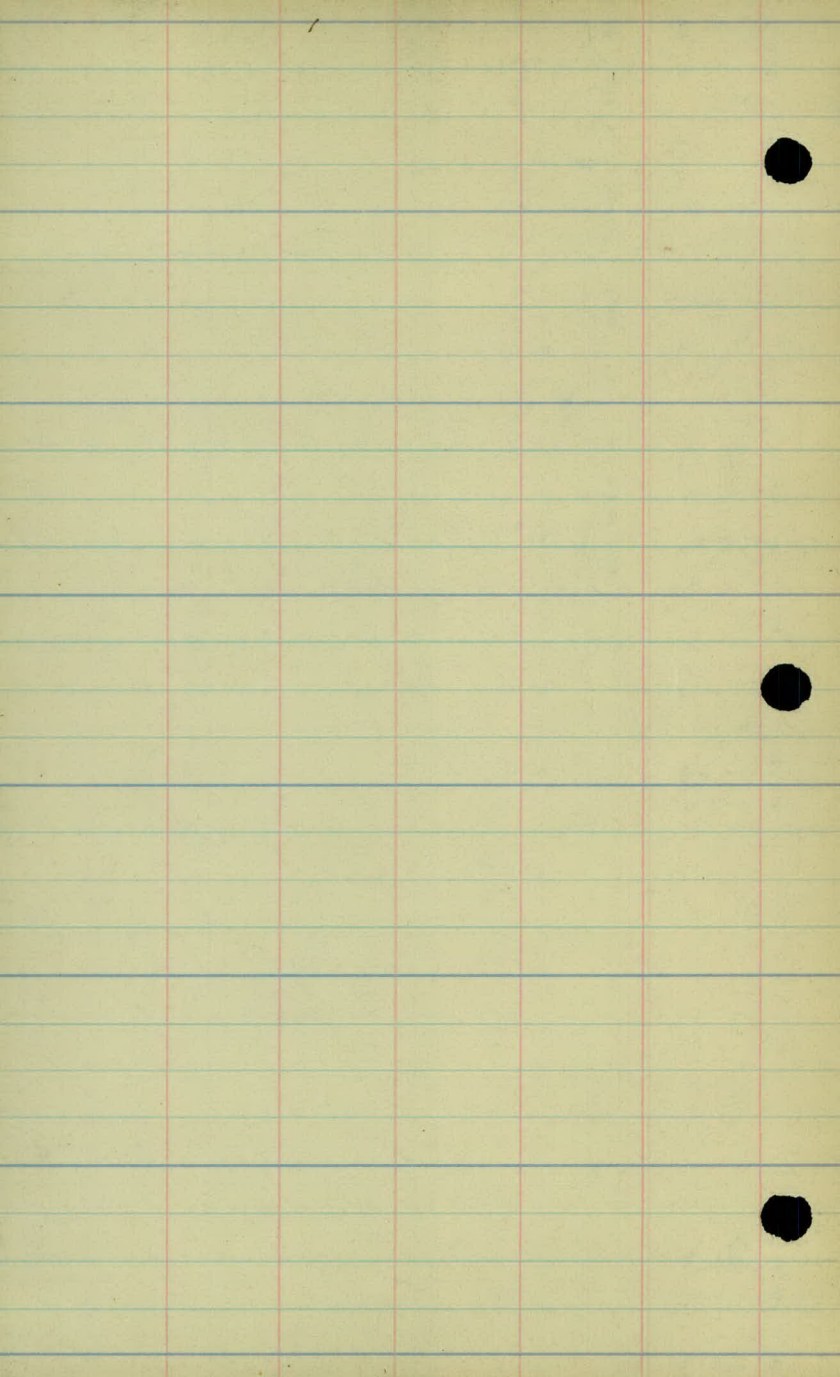
Sec. 19



Sec. 20

E. B. Road 1/2
 2437.56

E. Rice St.



2 LEVELS

Station	+	H.I	-	Rod	Elev.
B.M.	7.15	107.15 ✓			100.00 ✓
T.P.	4.33	110.96 ✓	0.52		106.63 ✓
B.M.	8.31	110.96 ✓	6.31		102.65 ✓
20+14.85				8.55	102.41 ✓
21+00				8.9	102.1 ✓
22+00				8.7	102.3 ✓
23+00				7.1	103.9 ✓
24+00				5.5	105.5 ✓
+27.56				5.0	106.0 ✓
25+00				4.2	106.8 ✓
26+00				3.1	107.9 ✓
27+00				4.3	106.7 ✓
28+00				8.0	103.0 ✓
+50				9.6	101.4 ✓
T.P.	0.89	101.90 ✓	9.95		101.01 ✓
29+00				2.0	99.9 ✓
+40				3.2	98.7 ✓
+70				4.3	97.6 ✓
				16.9	85.0 ✓
				24.0	77.9 ✓
30+00				6.5	95.4 ✓
+50				5.7	96.2 ✓
31+00				5.0	96.9 ✓
+55				3.6	98.3 ✓
32+00				2.0	99.9 ✓

Nail in 12" Oak Rt. Sta. 28+32

R.R. is Guy Pole 144t. Sta. 21+00

Top E. Rail ¹⁰⁰ Line

W.H.C.
Sout up
Persons
Calvin
Orphan

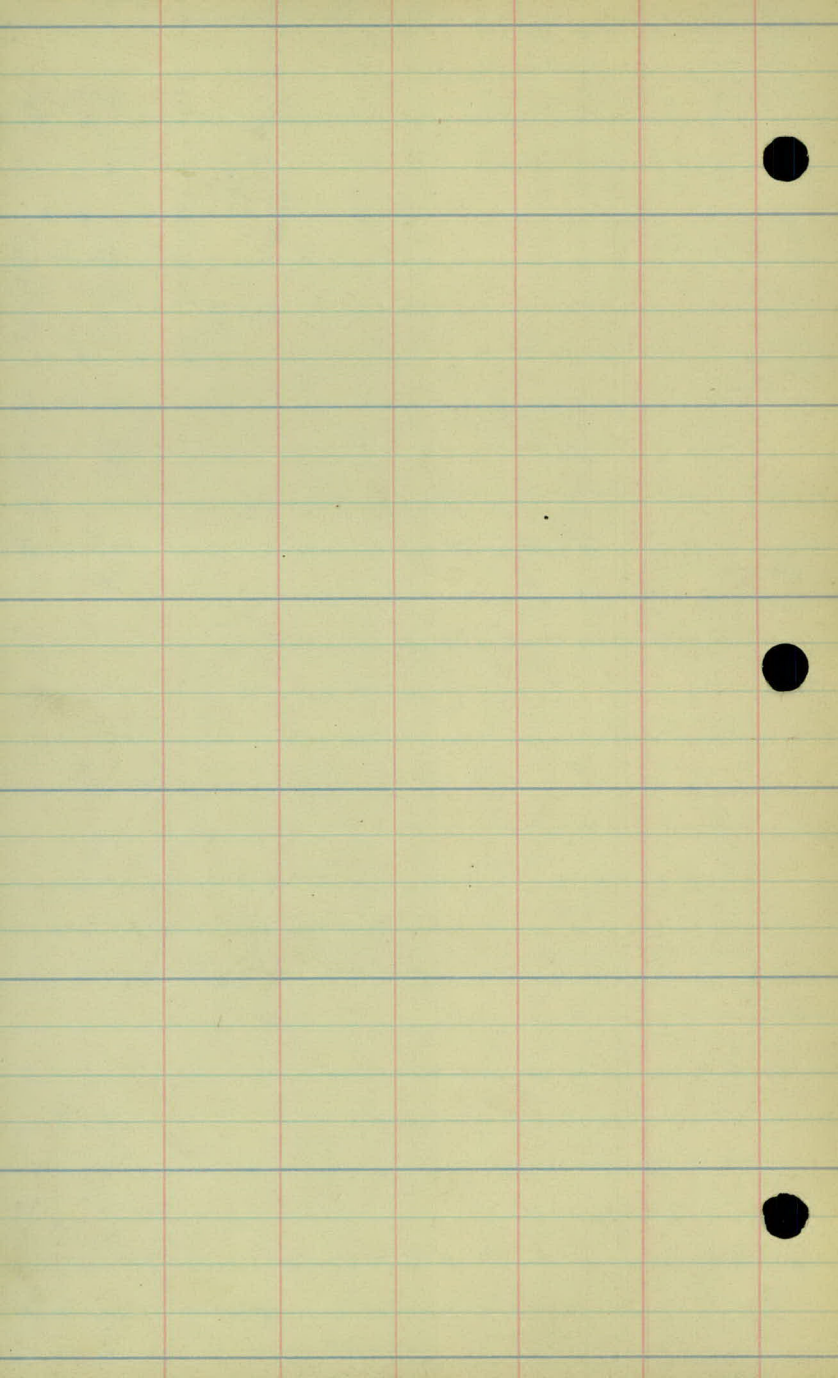
6-9-2
Very
Windy

Top Headwall Rt.

Water Surface.

Station	+	H.I	-	Rod	Elev.
		101.90 ✓			
32+50				0.2	101.7 ✓
T.P.	10.43	112.20 ✓	0.13		101.77 ✓
33+00				8.7	103.5 ✓
+50				7.1	105.1 ✓
34+00				5.1	107.1 ✓
35+00				2.7	109.5 ✓
36+00				0.7	111.5 ✓
B.M.	0.64	112.20 ✓	0.64		111.56 ✓
checking T.P.	1.41	103.06 ✓	10.55		101.65 ✓
B.M. (initial)			3.05		100.01 ✓

Nail in 20" Elm Lt. Sta. 35+60



X-SECTIONS

Station

Elev.

28+00

103.0

+50

-1.9

104.8

27+00

106.7

+50

-0.1

107.8

26+00

107.9

+50

+0.4

107.2

25+00

106.8

+37.06

106.0

24+00

105.5

+40

+0.7

104.6

23+00

103.9

+70

+1.1

103.4

22+00

102.3

LH.

Z

RH.

7

$$\begin{array}{ccccccccc} +0.2 & -0.1 & -1.6 & -0.8 & 0.0 & -0.7 & -1.3 & +1.5 & +2.1 & +2.2 \\ 33 & 24 & 19 & 14 & & 12 & 14 & 21 & 30 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +1.2 & +5.2 & -0.4 & -0.2 & 0.0 & -0.6 & -1.3 & -1.3 & +7.2 & +7.3 \\ 23 & 26 & 18 & 12 & & 12 & 18 & 16 & 28 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +1.9 & +6.3 & -1.1 & -1.1 & -0.0 & 0.0 & -0.5 & -1.0 & +1.5 & +9.6 & +9.6 \\ 33 & 26 & 18 & 15 & 13 & & 13 & 16 & 22 & 32 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +5.3 & +5.6 & -1.3 & -0.9 & 0.0 & -0.6 & -1.0 & -0.6 & +5.3 & +8.8 \\ 33 & 26 & 15 & 11 & & 13 & 16 & 20 & 32 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +6.7 & +7.0 & -0.4 & -0.8 & 0.0 & -0.2 & -0.9 & -0.9 & +10.6 \\ 33 & 27 & 16 & 11 & & 11 & 14 & 17 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +7.3 & +6.3 & -0.6 & -0.7 & 0.0 & +0.3 & +3.0 & +10.6 & +12.1 \\ 33 & 27 & 16 & 12 & & 12 & 23 & 33 & 35 \end{array}$$

$$\begin{array}{ccccccccc} +6.5 & +7.1 & -1.4 & -0.8 & 0.0 & -0.1 & -0.8 & +11.5 \\ 33 & 26 & 15 & 12 & & 9 & 14 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +4.4 & +4.8 & -1.0 & -0.8 & 0.0 & -0.5 & -1.2 & +10.4 & +10.4 \\ 33 & 28 & 15 & 11 & & 11 & 14 & 31 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +4.0 & +4.1 & -1.8 & -0.8 & 0.0 & -0.6 & 0.0 & +9.7 & +9.7 \\ 33 & 23 & 16 & 11 & & 11 & 17 & 31 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +1.0 & +1.0 & -2.0 & -2.0 & -0.6 & 0.0 & -0.7 & -1.8 & -2.2 & +6.7 & +6.1 \\ 33 & 26 & 21 & 18 & 12 & & 11 & 15 & 18 & 30 & 35 \end{array}$$

$$\begin{array}{ccccccccc} -4.2 & -3.4 & -0.7 & & 0.0 & -0.8 & -3.4 & -3.5 & +1.0 & +2.0 \\ 33 & 18 & 10 & & & 11 & 16 & 21 & 29 & 33 \end{array}$$

$$\begin{array}{ccccccccc} -7.5 & -4.2 & -1.2 & & 0.0 & -0.8 & -4.1 & -3.9 & -1.5 & -1.5 \\ 23 & 17 & 11 & & & 13 & 19 & 25 & 29 & 33 \end{array}$$

$$\begin{array}{ccccccccc} -9.0 & -5.2 & -0.9 & & 0.0 & -0.5 & -5.7 & -5.2 \\ 23 & 18 & 11 & & & 11 & 21 & 34 \end{array}$$

W.H.O. June 9
Sourup June 14
Dargons
60/110
Shabun

Station

Elev.

32+00

99.9

+55

98.3

+44

-0.3

98.0

31+00

96.9

+50

96.2

+18

0.0

95.4

30+00

95.4

+90

-1.8

95.8

+70

97.6

+40

98.7

29+00

99.9

28+50

101.4

28+20

+07

102.1

Lt.

2

Rt.

8

$$\begin{array}{r} -1.2 \\ 33 \end{array} \quad \begin{array}{r} -1.4 \\ 20 \end{array} \quad \begin{array}{r} -0.9 \\ 12 \end{array} \quad \begin{array}{r} -1.2 \\ 11 \end{array} \quad \begin{array}{r} -0.8 \\ 10 \end{array}$$

0.0

$$\begin{array}{r} -0.3 \\ 13 \end{array} \quad \begin{array}{r} -1.0 \\ 24 \end{array} \quad \begin{array}{r} +0.2 \\ 26 \end{array} \quad \begin{array}{r} +1.2 \\ 33 \end{array}$$

$$\begin{array}{r} -2.4 \\ 33 \end{array} \quad \begin{array}{r} -1.6 \\ 20 \end{array} \quad \begin{array}{r} -0.8 \\ 10 \end{array}$$

0.0

$$\begin{array}{r} -0.4 \\ 13 \end{array} \quad \begin{array}{r} -3.0 \\ 22 \end{array} \quad \begin{array}{r} -1.2 \\ 33 \end{array}$$

$$\begin{array}{r} -8.0 \\ 33 \end{array} \quad \begin{array}{r} -6.6 \\ 23 \end{array} \quad \begin{array}{r} -4.8 \\ 19 \end{array} \quad \begin{array}{r} -5.4 \\ 17 \end{array} \quad \begin{array}{r} -0.8 \\ 10 \end{array}$$

0.0

$$\begin{array}{r} -0.1 \\ 13 \end{array} \quad \begin{array}{r} -3.1 \\ 22 \end{array} \quad \begin{array}{r} -3.8 \\ 28 \end{array} \quad \begin{array}{r} -3.8 \\ 33 \end{array}$$

$$\begin{array}{r} 10.5 \\ 33 \end{array} \quad \begin{array}{r} 10.0 \\ 25 \end{array} \quad \begin{array}{r} -0.4 \\ 9 \end{array}$$

0.0

$$\begin{array}{r} -0.5 \\ 12 \end{array} \quad \begin{array}{r} 10.6 \\ 30 \end{array} \quad \begin{array}{r} -0.6 \\ 33 \end{array}$$

$$\begin{array}{r} -12.8 \\ 33 \end{array} \quad \begin{array}{r} -12.0 \\ 27 \end{array} \quad \begin{array}{r} -0.4 \\ 9 \end{array}$$

0.0

$$\begin{array}{r} -0.4 \\ 10 \end{array} \quad \begin{array}{r} -8.0 \\ 20 \end{array} \quad \begin{array}{r} -12.4 \\ 29 \end{array} \quad \begin{array}{r} -11.2 \\ 33 \end{array}$$

$$\begin{array}{r} -16.3 \\ 40 \end{array} \quad \begin{array}{r} -16.0 \\ 49 \end{array} \quad \begin{array}{r} -0.3 \\ 9 \end{array}$$

0.0

$$\begin{array}{r} -0.3 \\ 7 \end{array} \quad \begin{array}{r} -15.6 \\ 28 \end{array} \quad \begin{array}{r} -16.8 \\ 40 \end{array}$$

$$\begin{array}{r} -11.3 \\ 37 \end{array} \quad \begin{array}{r} -9.7 \\ 33 \end{array} \quad \begin{array}{r} -7.8 \\ 27 \end{array} \quad \begin{array}{r} -0.2 \\ 9 \end{array}$$

0.0

$$\begin{array}{r} -1.1 \\ 9 \end{array} \quad \begin{array}{r} -8.4 \\ 27 \end{array} \quad \begin{array}{r} -12.6 \\ 33 \end{array} \quad \begin{array}{r} -14.2 \\ 37 \end{array}$$

$$\begin{array}{r} -10.2 \\ 37 \end{array} \quad \begin{array}{r} -7.1 \\ 29 \end{array} \quad \begin{array}{r} -0.3 \\ 10 \end{array}$$

0.0

$$\begin{array}{r} -0.9 \\ 9 \end{array} \quad \begin{array}{r} -2.0 \\ 13 \end{array} \quad \begin{array}{r} -2.2 \\ 16 \end{array} \quad \begin{array}{r} -4.5 \\ 24 \end{array} \quad \begin{array}{r} -6.6 \\ 28 \end{array} \quad \begin{array}{r} -9.6 \\ 33 \end{array} \quad \begin{array}{r} -10.7 \\ 37 \end{array}$$

$$\begin{array}{r} -14.5 \\ 40 \end{array} \quad \begin{array}{r} -9.6 \\ 33 \end{array} \quad \begin{array}{r} -4.8 \\ 29 \end{array} \quad \begin{array}{r} -1.0 \\ 11 \end{array}$$

0.0

$$\begin{array}{r} -0.7 \\ 8 \end{array} \quad \begin{array}{r} -5.6 \\ 17 \end{array} \quad \begin{array}{r} -11.0 \\ 28 \end{array} \quad \begin{array}{r} -12.2 \\ 33 \end{array} \quad \begin{array}{r} -14.2 \\ 40 \end{array}$$

$$\begin{array}{r} -6.6 \\ 33 \end{array} \quad \begin{array}{r} -6.0 \\ 28 \end{array} \quad \begin{array}{r} -3.8 \\ 24 \end{array} \quad \begin{array}{r} -0.3 \\ 14 \end{array}$$

0.0

$$\begin{array}{r} -0.7 \\ 9 \end{array} \quad \begin{array}{r} -5.4 \\ 18 \end{array} \quad \begin{array}{r} -5.5 \\ 23 \end{array} \quad \begin{array}{r} -11.0 \\ 33 \end{array}$$

$$\begin{array}{r} -6.0 \\ 33 \end{array} \quad \begin{array}{r} -5.2 \\ 24 \end{array} \quad \begin{array}{r} 0.0 \\ 13 \end{array}$$

0.0

$$\begin{array}{r} -0.1 \\ 13 \end{array} \quad \begin{array}{r} -2.4 \\ 18 \end{array} \quad \begin{array}{r} -1.0 \\ 21 \end{array} \quad \begin{array}{r} -7.7 \\ 33 \end{array}$$

$$\begin{array}{r} -4.7 \\ 33 \end{array} \quad \begin{array}{r} -2.9 \\ 19 \end{array} \quad \begin{array}{r} -0.6 \\ 11 \end{array}$$

0.0

$$\begin{array}{r} -0.2 \\ 12 \end{array} \quad \begin{array}{r} -2.3 \\ 16 \end{array} \quad \begin{array}{r} -2.4 \\ 19 \end{array} \quad \begin{array}{r} -2.0 \\ 20 \end{array} \quad \begin{array}{r} -4.4 \\ 33 \end{array}$$

$$\begin{array}{r} -2.6 \\ 33 \end{array} \quad \begin{array}{r} -1.7 \\ 18 \end{array} \quad \begin{array}{r} -0.9 \\ 13 \end{array}$$

0.0

$$\begin{array}{r} -0.6 \\ 12 \end{array} \quad \begin{array}{r} -1.7 \\ 16 \end{array} \quad \begin{array}{r} -2.1 \\ 23 \end{array} \quad \begin{array}{r} -1.8 \\ 27 \end{array} \quad \begin{array}{r} -2.3 \\ 33 \end{array}$$

Station

Elev.

Note:

approx 600 lin ft. of
Sound Rail required.
A. & R. and E. & W. from
Culvert.

36+00

111.5'

+50

-1.0

110.5'

35+00

107.5' 109.5'

+60

+15

108.6'

34+00

107.1'

33+50

105.1'

33+00

103.5'

32+50

101.7'

$$\begin{array}{ccccccccc} -2.0 & -2.1 & -2.8 & -0.2 & 0.0 & -0.3 & -4.1 & -4.9 & -6.0 \\ \hline 33 & 24 & 14 & 8 & & 14 & 24 & 27 & 33 \end{array}$$

$$\begin{array}{ccccccccc} 0.0 & -1.0 & -1.5 & 0.0 & 0.0 & -0.8 & -1.9 & -3.8 \\ \hline 33 & 17 & 8 & & 16 & 20 & 28 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +2.4 & +2.3 & -0.4 & 0.0 & -0.1 & -0.5 & -0.5 & +3.2 & -1.3 \\ \hline 33 & 14 & 9 & & 15 & 18 & 20 & 23 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +8.0 & +8.0 & -0.6 & 0.0 & 0.0 & -2.1 & -0.7 & -0.7 & +0.9 & +1.4 & +5.0 \\ \hline 33 & 21 & 11 & 3 & & 15 & 19 & 21 & 23 & 30 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +11.8 & +11.8 & +5.2 & +1.2 & -0.5 & 0.0 & -0.6 & +0.6 & +2.2 \\ \hline 33 & 29 & 20 & 11 & 4 & 14 & 20 & 30 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +14.4 & +14.4 & 0.0 & 1.0 & -1.6 & 0.0 & -0.4 & -0.4 \\ \hline 33 & 31 & 17 & 14 & 10 & 9 & 16 & 21 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +10.5 & +11.3 & +1.4 & -1.0 & 0.0 & -0.5 & -1.3 \\ \hline 33 & 28 & 18 & 10 & & 19 & 33 \end{array}$$

$$\begin{array}{ccccccccc} +5.3 & +6.0 & -0.2 & 0.0 & 0.0 & +2.0 & +1.2 & +8.0 \\ \hline 33 & 20 & 12 & & 17 & 21 & 30 & 33 \end{array}$$

Station

Elev.

6-17-25

Blue Tops Ret Sta. 28+00 to
Sta 31+50
C.W. 46.