

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Road Map Survey

LABORE RD.

From Edgerton St. To Centerville Rd.

Road Acc't. No. 4

Date Filed 5-7-23

File

5-7-23

File #4

Latone Road. Survey
Road No 41

Alignment Notes

Pages 1 to 9.

Sta. 0+00 to 159+22.9

R. E. Austin - Transit

Skoglund } chain.
Ruttenberg }
Walsh State Artist
Callen Rear Flag.

Apr. - 1923.

File #4

Ang. L. Ang. R.

Labone Road.

Survey.

4+132 P.O.T.

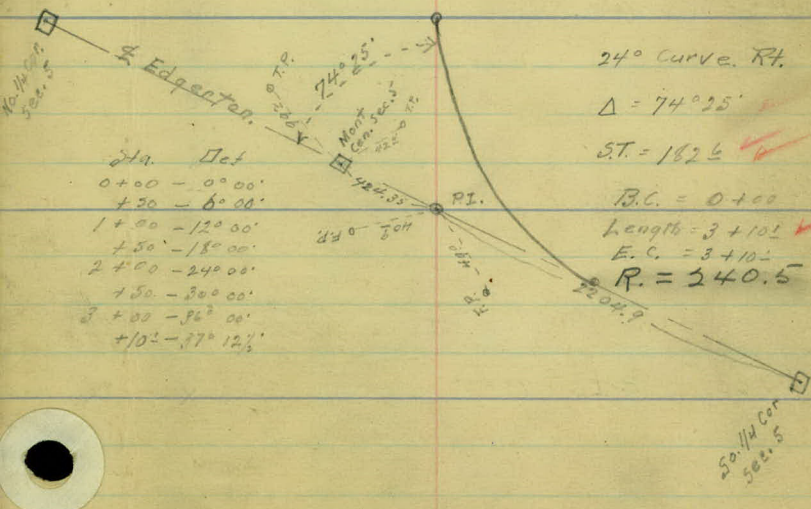
3+102 E.C. ✓

N 74° 25' E ✓

1+822 P.T. ✓

74° 25' X

0+00 B.C. ✓



Aug. L Aug. R.
Labore Road.

$$17+41.2 \checkmark = 17+42.5$$

$$17+40 = 17+42.5$$

17+42.5 F.C.

N 70° 32' E

16+43.8 P.I.

3° 54'

X

15+46.2
15+45° B.C.

N 66° 38' E

14+84.7 F.C. ✓

14+20 P.I. 7° 47'

X

13+55.2 B.C. ✓

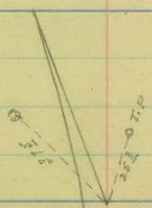
8/38

Sta. Def. ^{Ties on trees in place}
 15+45° - 0°00' ^{TREE}
 16+00 - 0°33' ^{282'}
 17+00 - 1°033' ^{TREE}
 +425 - 1°57 1/2' ^{TREE}

2° Curve. RT.
 $\Delta = 3°54'$
 S.T. = 98.8 (97.6)
 B.C. = 15+45°
 length = (197.5) 192
 E.C. = 17+425
 R. = 2864.9

Sta. Def.
 13+55 = 0°00'
 14+00 = 1°21'
 14847 = 3°53 1/2'

6° Curve left
 $\Delta = 7°47'$
 S.T. = 650 ✓
 B.C. = 13+55 ✓
 length = 1292 ✓
 E.C. = 14+847
 R. 955.4



Ang. L. Ang. R.

Kabone Road

39+133 F.C. ✓

N 38° 55' E ✓

37+02.1 P.I. 340.56'

X

34+76.6 B.C. ✓

28+92.5 T.O.T. E Acacia St

N 73° 51' E ✓

25+107.8 F.C. ✓

23+42.1 P.I. 3° 19'

X

21+76.2 B.C. ✓

(3) 059

Sta. - Def.

34+76⁶ - 0000'

35400 - 0056'

36 + 00 - 4056'

37 +.00 - 8° 56'

38 + 00 - 12056'

39 + 00 - 16° 56'

+13³ - 17° 28'

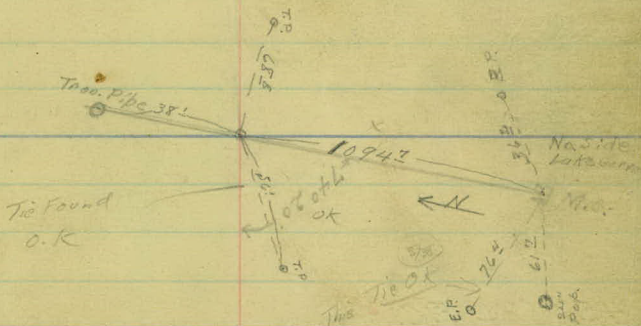
80 Curve left.

$$\Delta = 340.56'$$

$\phi.T. = 225^{\circ} 5'$

$$B.C. = 34 + 76 \frac{6}{10}$$

Length = 4367

$$E.C. = 39 + 13 \frac{3}{4}$$
$$R_1 = 716.8$$


Sta. - Def.

21762 - 0000.

22400 - 0007

24400 - 1° 07'

25 + 00 - 1037'

1079-1039 1/2

$$\Delta = 3^{\circ} 19'$$

S.T. = 1659

$$B.C. = 21 + 76Z$$

length = 7317

$$E.C. = 25 + 079$$
 $R = 5729.7$

Ang. L. Ang. R

62+02¹ E.C. ✓

N 21° 59' E ✓

59+85⁵ P.I. 2° 10'

X

57+68⁸ B.C. ✓

N 23° 49' E ✓

51+12² P.I.

0° 30'

X

45+84³ E.C. ✓

N 23° 19' E ✓

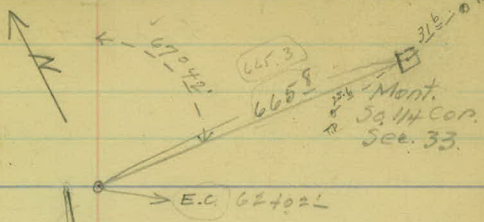
45+41⁴ P.I. 150 3/4'

X

44+97⁶ ✓

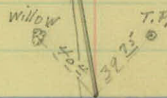
44+84³ B.C.

4-24-23 665.3
 31.5 - 0.17
 Mont.
 53.14 Cor.
 See. 33.



Sta. Det.

57+68.5 - 0°00'
 58+00 - 0°05'
 59+00 - 0°20'
 60+00 - 0°35'
 61+00 - 0°50'
 62+00 - 1°05'
 + 02.1 - 1°05'



30' Curve Left
 $\Delta = 20.10$ $2^\circ 10'$
 S.T. = 216.7
 B.C. = 57+68.5
 length = 433.3
 E.C. = 62+02.2
 $R = 11459.2$



Sta. - Det.

44+99.5 - 0°00'
 45+00 - 0°13'
 + 84.3 - 7°48'



18° Curve Left
 $\Delta = 15.36$
 S.T. = 43.8
 B.C. = 44+99.5
 length = 86.7
 E.C. = 45+84.3
 $R = 319.6$

Ang. h Ang. R

Labore Road.

87+050 E.C. ✓

N 50° 47' W ✓

85+770 P.I. 10° 16'

x

84+483 B.C. ✓

- 30-52.3

77+704 E.C.

N 40° 29' E ✓

41.9

76+28.5 P.I. 17° 10'

x

74+843 B.C.

1432.39

Sta. Met.
 84+48.3 - 0°00'
 85+00 - 1°02'
 86+00 - 3°02'
 87+00 - 5°02'
 +050 - 5°08'

4° Curve left.

$\Delta = 10^\circ 16'$

S.T. = 128.7 ✓

B.C. = 84+48.3

Length = 256.7 ✓

E.C. = 87+050

R = 1432.7

43.0 T.P.
 22.5

L = 954.730

Sta. Met.
 74+84.3 - 0°00'
 75+00 - 0°28'
 76+00 - 3°28'
 77+00 - 6°28'
 +70.4 - 8°35'

6° Curve left.

$\Delta = 17^\circ 10'$

S.T. = 144.2 ✓

B.C. = 74+84.3

Length = 286.1 ✓

E.C. = 77+70.4

R = 955.4

K.P. 0.386
 26.0 T.P.

Ang. L 2 Ang. R.

Labone Road.
Survey

8/24/8

97+28.2 F.C. ✓

N 44° 57' E ✓

96+33.7 P.I.

56° 43'

X

95+18.1 B.C. ✓

N 01° 10' 46" W

90+52.3 F.C. ✓

89+02.8 P.I. 5° 59'

X

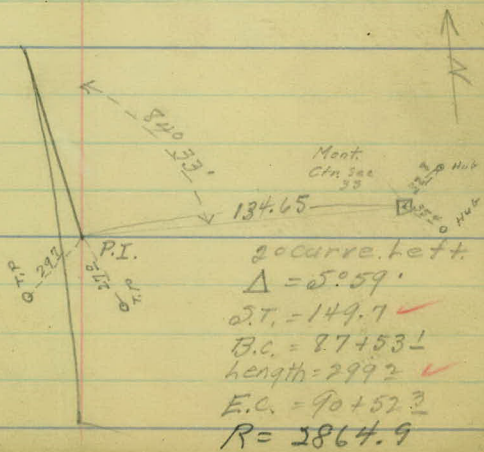
87+53.1 B.C. ✓

95+18.1 - 0°00'
 +50 - 40°18½'
 96+00 - 110°03½' *1100*
 +50 - 170°48½'
 97+00 - 240°33½'
 +28.2 - 28°21½'

Inop pipe

270 Curve Rt.
 $\Delta = 56°43'$
 S.T. = 1156 ✓
 B.C. = 95+18.1
 length = 210 ✓
 E.C. = 97+28.2
 R = 214.2

Sta. - Def
 87+53.1 - 0°00'
 88+00 - 0°28'
 89+00 - 10°28'
 90+00 - 20°28'
 +52.3 - 2°59½'



Ang. L Ang. R.

Labone Road

122+14³ E.C. ✓

78° 4'

N 5° 46' E ✓

X

121+67³ P.I. 28° 13'

121+17⁵ B.C. ✓

N 33° 59' E ✓

109+96¹ E.C. ✓

107+77⁴ P.I. 10° 58'

X

105+57⁴ B.C. ✓

Sta. Def.

121+17.5 - 0000'

+50 - 4043'

122+00 - 11058'

+148 - 1406 1/2'

29° Curve, left

$\Delta = 28^\circ 13'$

S.T. = 50.2 ✓

B.C. = 121+17.5

length = 97.3 ✓

E.C. = 122+148

R = 199.7

P.F.P.
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Mont.
No 1/4 con
Sec. 33

Sta. Def.

105+57.4 - 0000'

106+00 - 0032'

107+00 - 1047'

108+00 - 3002'

109+00 - 4017'

+961 - 5029

2°30' Curve, left

$\Delta = 10^\circ 58'$

S.T. = 220.0 ✓

B.C. = 105+57.4

length = 438.1 ✓

E.C. = 109+961

R = 2292.0

Ang. h $\angle$ Ang. R. Calc. Magnetic
Bearing Bearing

Latore Road.

147+00 P.I. $0^{\circ}36'$

X

$$138+70.3 = 138+66.7$$

138+66.7 E.C. EQUATION

✓
M. 29065 N

137+49.5 P.I.

$40^{\circ}50'$

X

$$136+28.6$$

136+25.0 B.C.

816.8

✓
M. 29405 N

131+44.5 E.C. ✓

129+51.0 P.I. $40^{\circ}32'$

X

127+39.2 B.C. ✓



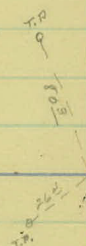
Sta. - Def.

136+25 - 0°00'

137+00 - 0°45'

138+00 - 1°45'

+667 - 2°25'

137+45
12

2° Curve, RT.

 $\Delta = 4050'$

S.T. = 120.9 ✓

B.C. = 136+250

length = 241.7 ✓

E.C. = 138+662

R = 2864.9

Sta. - Def.

127+392 - 0°00'

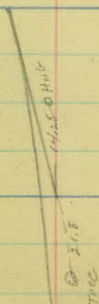
128+00 - 3°02'

129+00 - 8°02'

130+00 - 13°02'

131+00 - 18°02'

+445 - 20°16'



10° Curve, Left.

 $\Delta = 40°32'$

S.T. = 211.8 ✓

B.C. = 127+392

length = 405.3 ✓

E.C. = 131+445

R = 573.7

Ang. h Ang. R Calc. Brg. Mag. Brg.

Labore. Road.

159+22.2 = 84+60.1 S.C. Line

159+08.2 E.C. ✓

N 12° 50' W ✓

N 13° 15' W

157+44.4 P.I.

16° 30'

Mag. 22.10 W

X

X

155+78.2 B.C. ✓

N 29° 20' W. ✓

152+32.3 ± N.P.R.

199.2

X

4-26-23 9079

Labone Road Survey

Centerville P.I. 168+92.1

12-18-25 - W.H.C.

Sta - Det.
155+78.2 - 0°00'
156+00 - 0°33'
157+00 - 3°03'
158+00 - 5°33'
159+00 - 8°03'
+082 - 8°15'

5° curve R

$\Delta = 16°30'$

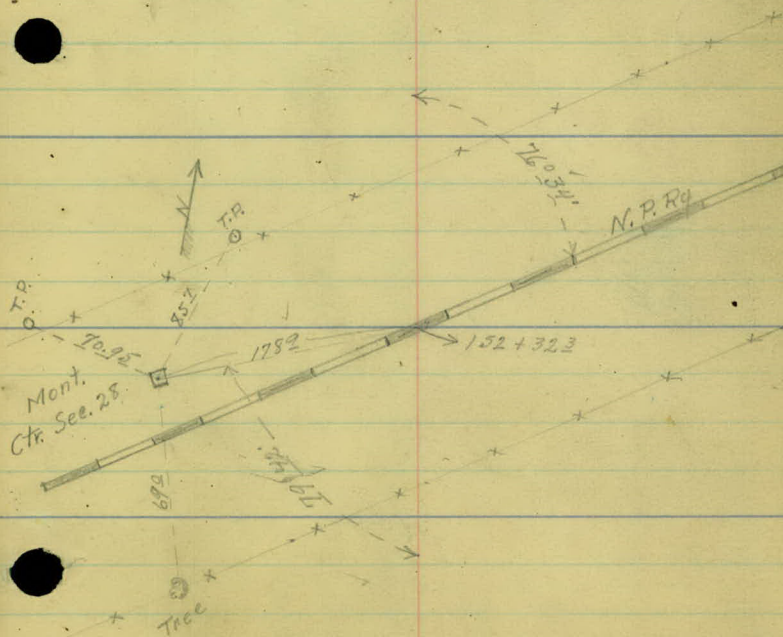
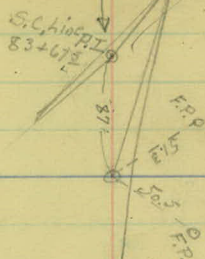
S.T. = 166.2

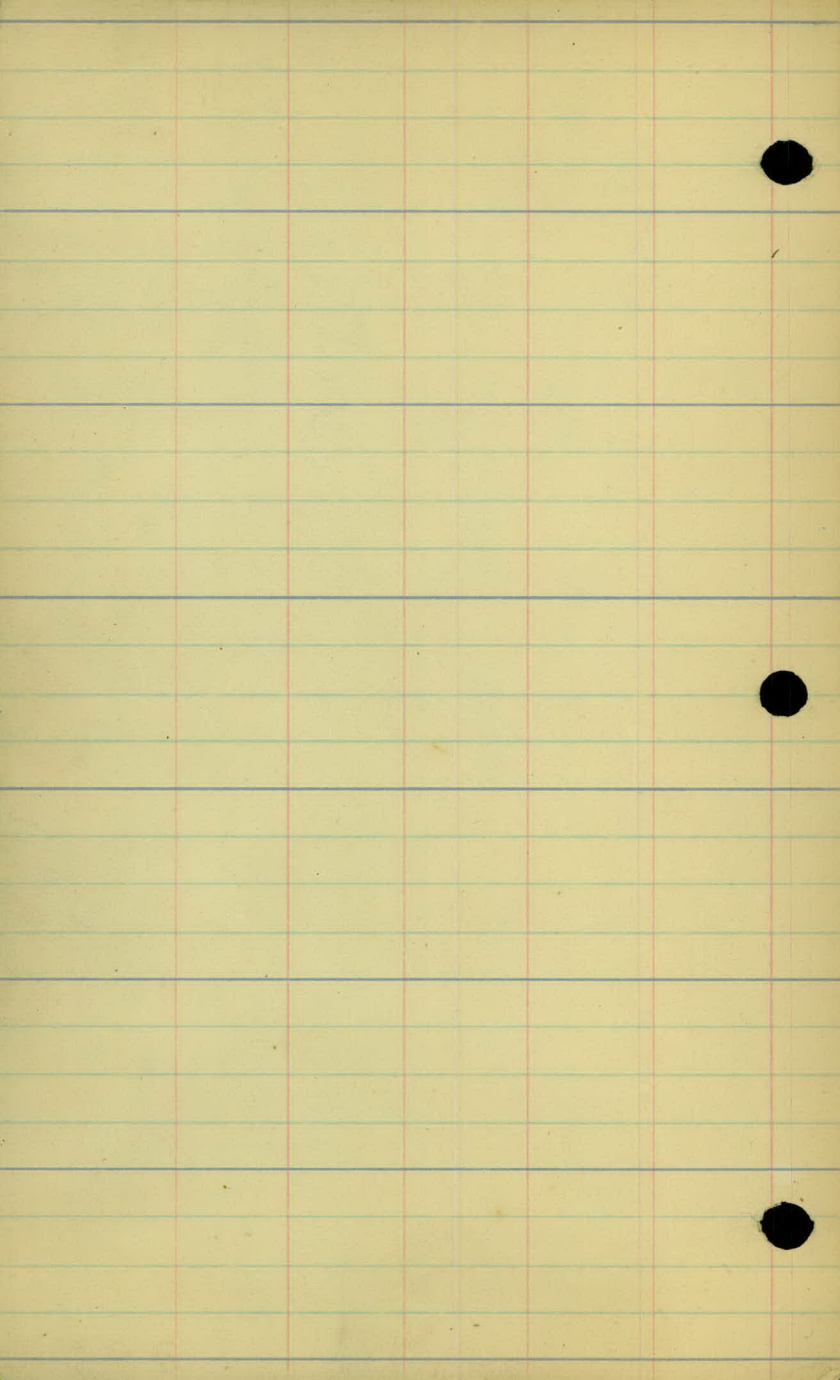
B.C. = 155+78

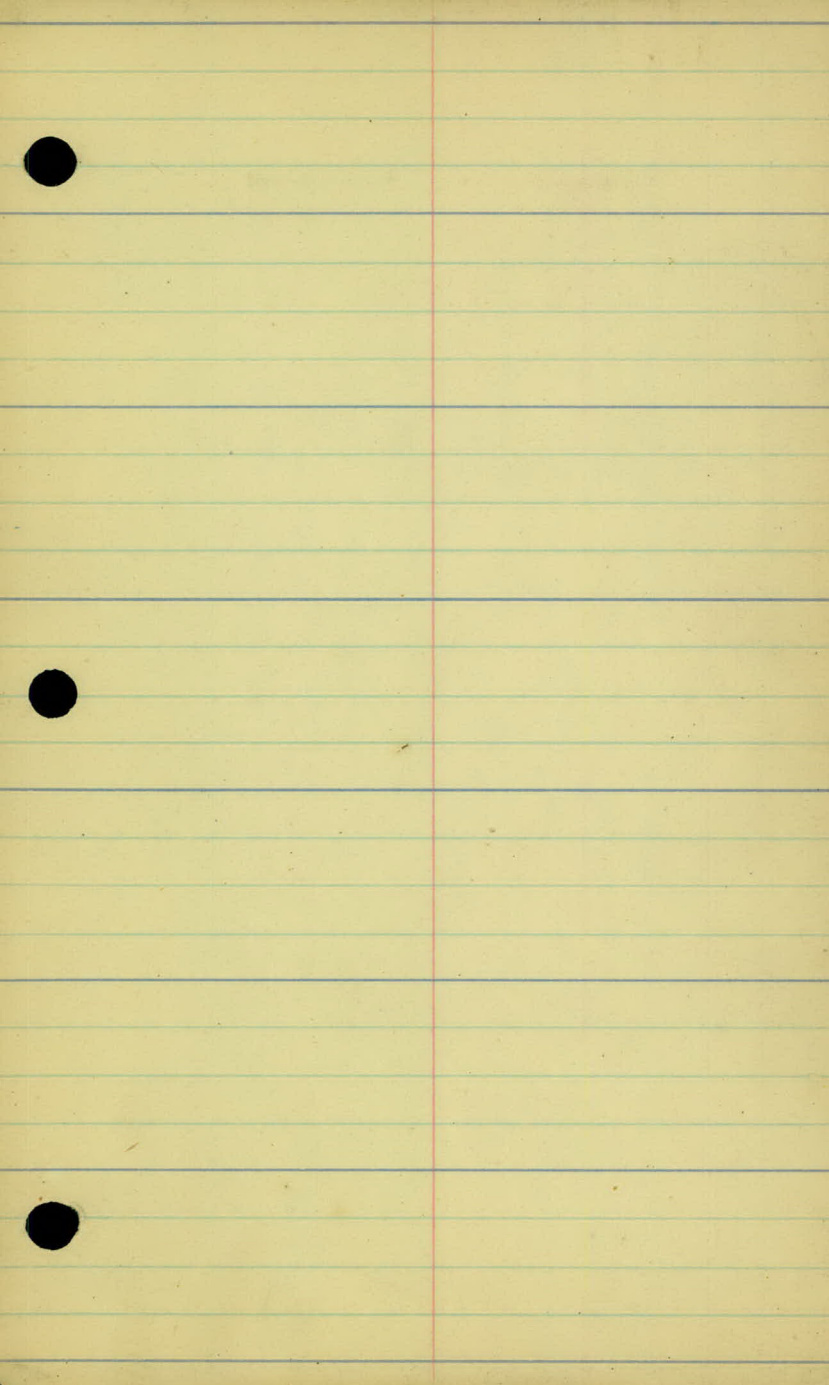
length = 330.0

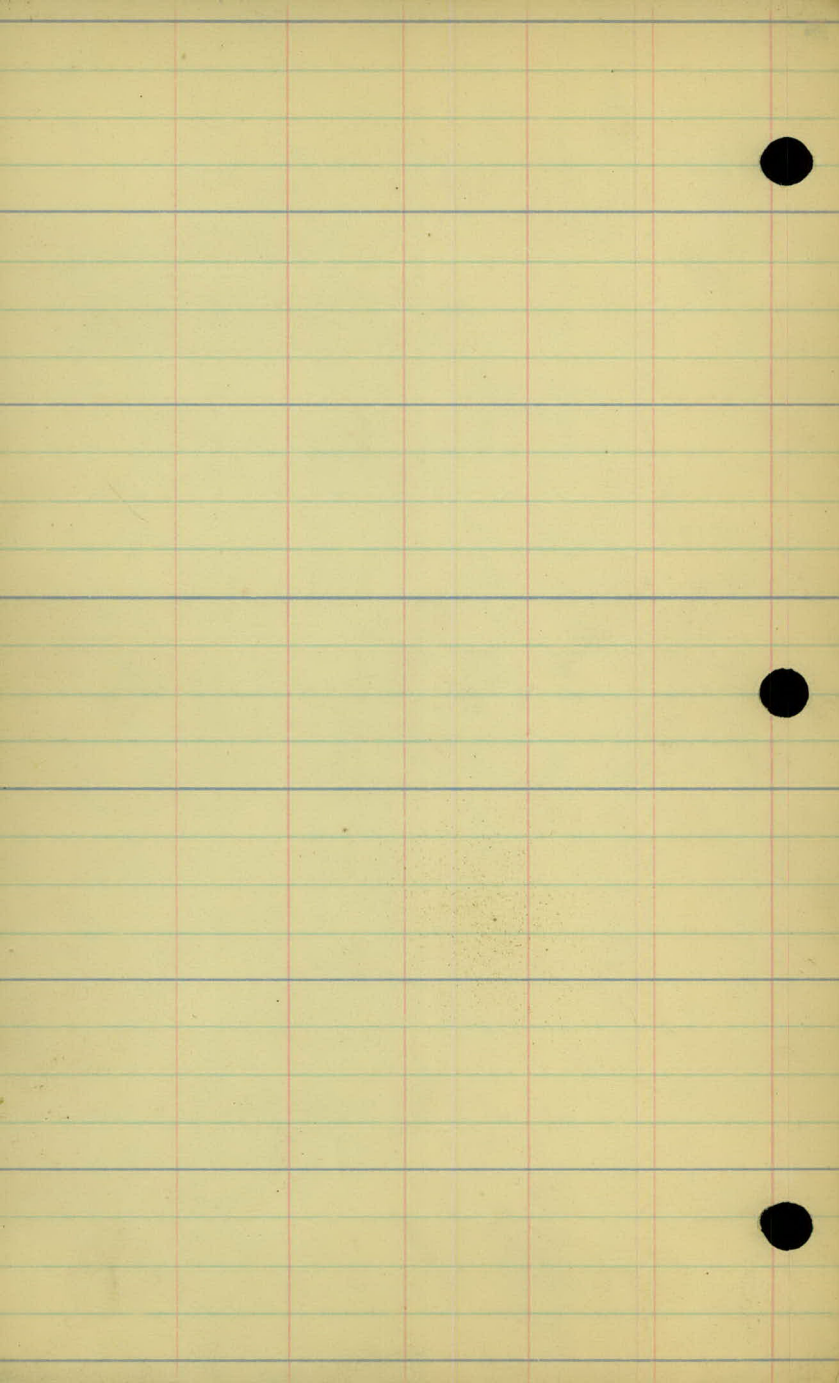
E.C. = 159+08

R = 1146.3









Labore Road.

Job. 4

Artificial Topography.

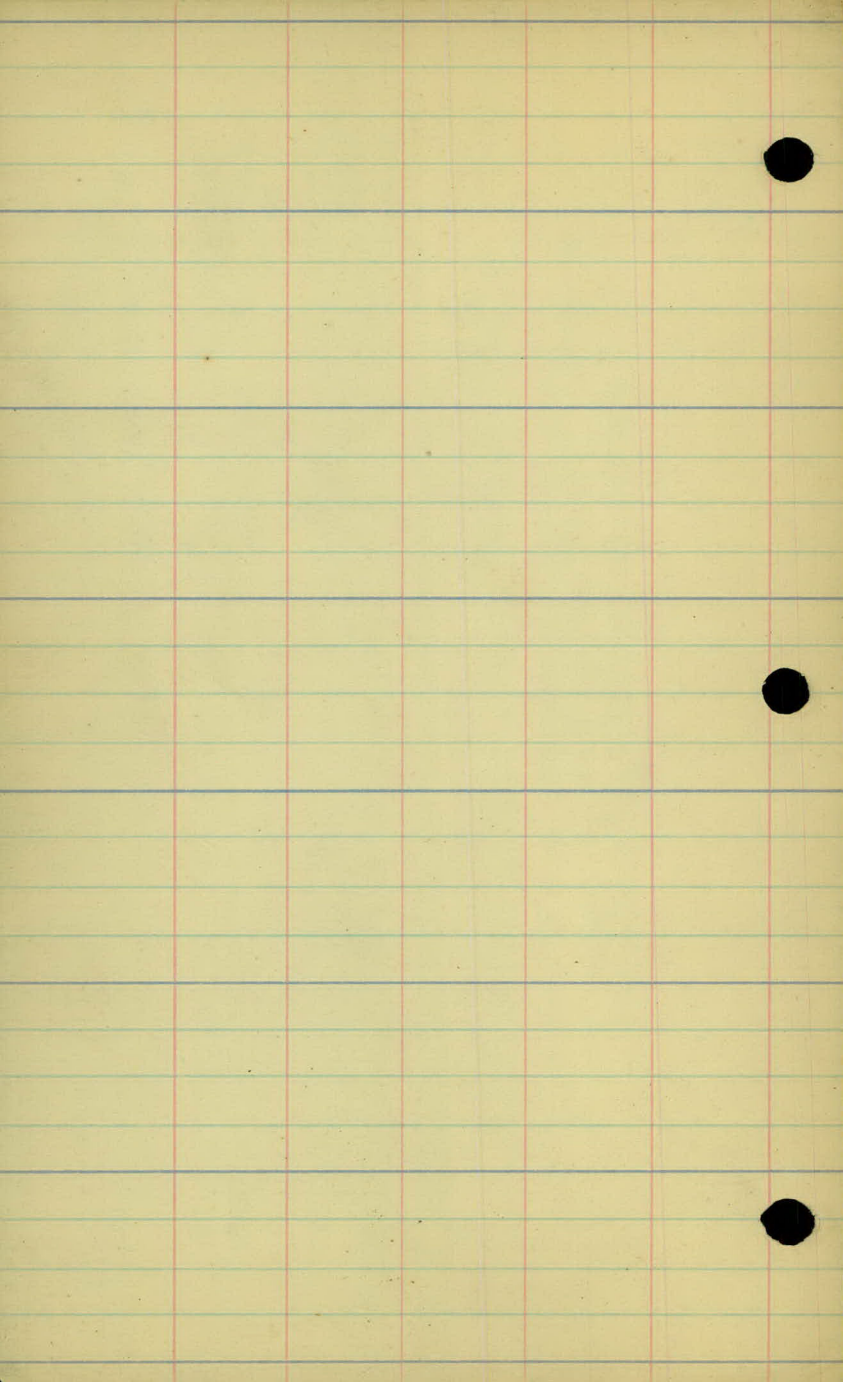
23 Pages.

Sta. 0+00 - 159 + 229

R.H. Austin, Notes.

Ruttenberg } chain.
Skoooglun }

Apr. 1923.



LABORE ROAD

4-28-23

00723

2

+33 Fence Cor. 32

+29 T.P. 32'R

5

+52 T.P. 30'L

4 +100 F.C. 33%

+100 T.P. 32'R

3

+106 T.P. 28, 31

+106 T.P. 32'R

+35 G.P. 30'L

+35 T.P. 22'R
+25 T. 23'R

2 Fence +100 31%

+64 T.P. 22'L

EDGERTON ST.

1

+108 T.P. 32'R

+90 2MB-13'R

+72 T.P. 14'R

+140 E DRIVE

+30 T. 16'R

+148 T.P. 38'L

0

Concrete Pavement

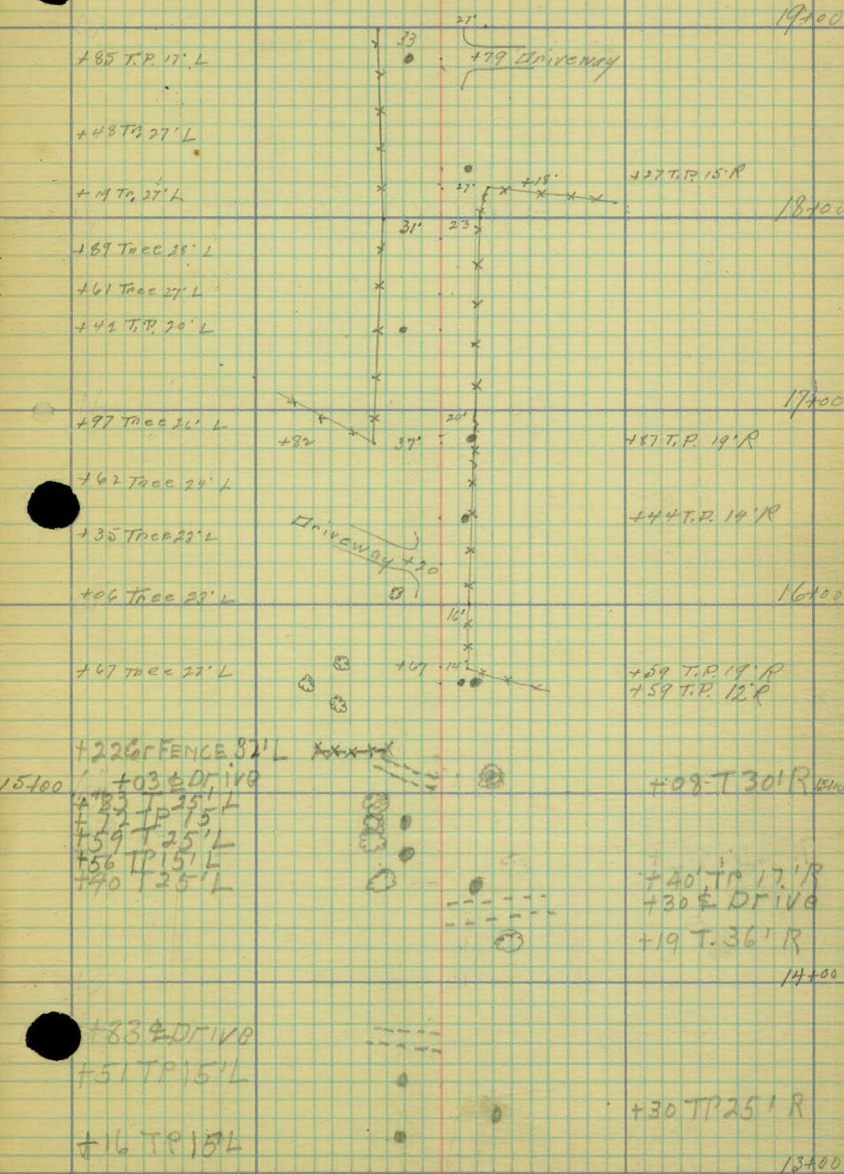
4-28-23

Latone Road.

Rattenberg-Notes
Skoglund-chain.

Labone Road.

70720



8-1-23

Labone Road.

+70 T.P. 15' L

② of 23 26+00

+74 T.P. 15' R

+52 T.P. 16' L
+48 G.P. 25' R

+46 T.P. 14' R

+15 T.P. 18' L

+14 T.P. 18' R

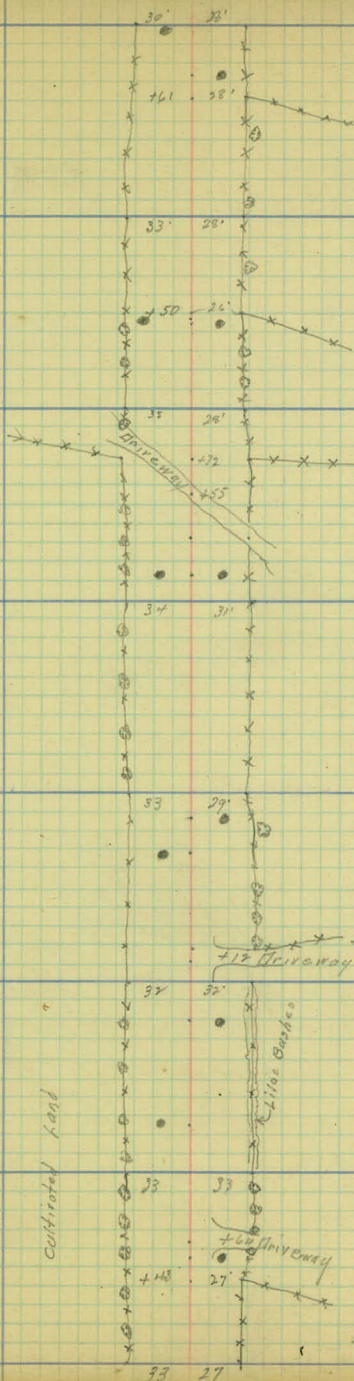
+63 T.P. 15' L

+85 T.P. 19' R

+26 T.P. 16' L

+79 T.P. 17' R

+55 T.P. 17' R



5-1-23

Labone Road.

+91 T.P. 19'L

+20 T.P. 17'R

32+00

+35 T.P. 17'L

Cultivated

+19 Drive

+20 Driveway

+88 T.P. 16'R

31+00

+00 T.P. 16'L
+97 St. 5.99 P 10'L

+89 drive

+ Arcade St. + 925

+76 T.P. 15'R

29+00

+47 T.P. 15'L

Cultivated

+33 Drive

+07 T.P. 15'R

28+00

26+00

5-1-23

Lobene Road.

+65 T.P. 14' L

+30 Drive

Cultivated

+34 T.P. 21' R

39400

+37 T.P. 17' L

+25 Tree + Fence 20' L

+15 T.P. 35' R

38400

+96 Tree 24' L

+00 T.P. 16' L

Cultivated

+92 T.P. 18' R

37400

+64 T.P. 20' L

+86 T.P. 14' L

+78 T.P. 19' R

36400

+65 T.P. 21' L

+71 T.P. 16' R

35400

+44 T.P. 20' L

+48 T.P. 15' R

34400

33400

5-1-23

Labore Road.

⑦ of 23

47+00

+53 T.P. 14' L

+20 T.P. 20' R

46+00

+71 Drive

+79 Drive

+72 End Fence 28' R

+15 T.P. 22' R

+100 T.P. 21' L

45+00

+58 T.P. 18' L

+38 T.P. 22' R

44+00

+12 T.P. 23' R

43+00

+25 T.P. 18' L

+70 Tree 26'

+80 T.P. 22' R

42+00

+90 T.P. 15' L

+48 Tree 30'

+56 T.P. 21' R

41+00

+05 Drive

40+00

5-1-23

Lagone Road

+93 T.P. 18' L

② of 23

52400

+96 T.P. 21' + 25' R

22

00

x

x

x

x

x

23'

•

+85 T.P. 17'

x

459'

x

x

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+42 Drive

53+00

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+65 T.P. 25' R

52+00

21'

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+42 End Fence
+31 T.P. 25' R

51+00

20'

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+00 Drive

+03 T.P. 25' R 50+00

20'

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+74 T.P. 26' R

49+00

20'

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x

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x

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x

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x

x

+40 T.P. 25' R

48+00

20'

x

x

x

x

x

x

x

x

x

x

x

+03 Beg. Fence 47+00

29'

+70 T.P. 16' L

+41 T.P. 14' L

+13 T.P. 14' L

+34

+92 T.P. 14' L

Cultivated

Cultivated

5-1-23

Labone Road

90523

61+00

+91 T.P. 21' L
+77 Tree 33' L

+66 Drive

+31 T.P.s 17' + 22' R

60+00

+65 T.P. 20' L

+95 T.P. 19' R

59+00

+37 T.P. 20' L

+66 T.P. 19' R

58+00

+38 Drive

+4 Drive

57+00

+95 Drive

+56 T.P. 21' R

+22 T.P. 20' L

56+00

+26 Tree 26' L
+12 T.P. 18' L

+27 T.P. 21' R

55+00

+68 Tree 24' L

54+00

Labone Road.

+43 T.P. 23' R

+07 T.P. 19' L

67+00

+18 T.P. 23' R

66+00

+89 T.P. 19' L

65+00

+57 T.P. 23' R

+07 T.P. 18' L

+46 Driveway

+10 End Fence

64+00

+62 T.P. 23' R

+51 T.P. 19' L

63+00

+78 T.P. 23' R

+51 Sign P. 26' R

+43 T.P. 19' L
+45 T.P. 19' L

+162 Co. Rd. "B"

+14 Driveway

62+00

+90 St. Sign 22' R
+85 T.P. 25' R

+94 T.P. 21' L

+13 T.P. 20' L

+11 T.P. 21' R 61+00

5-1-23

Labone Road.

+57 T.P. 20' L

+30

+63 T.P. 21' L

+53 T.P. 18' R

Cultivated

+38 T.P. 20' L

+43 T.P. 21' R

+25 Beg. Fence

Univ. +52

+14 T.P. 24' R

+69 T.P. 19' L

+91 T.P. 23' R

End Fence +09

Cultivated

+26 T.P. 19' L

+72 T.P. 22' R

5-1-23

Labone Road.



(2) of 23 82+00

+63 T.P. 20' R

81+00

+67 T.P. 20

80+00

+96 T.P. 19'

79+00

+61 T.P. 21' R

78+00

+48 T.P. 27' R

77+00

+31 T.P. 17' R

76+00

Pasture

+42 Drive

+03 Driveway

+95 Driveway

+32 T.P. 15' L

+01 T.P. 15' L

+76 T.P. 12' L

+52 T.P. 16' L

+18 T.P. 16' L

+20



4-30-23

Labone Road

+79 Tree 26 R
+87 Tree 25 R
+80 T.P. 17 L

(3) of 23 89+00

+80 T.P. 21 R

+66 T.P. 15 L

+82 T.P. 20 R

+24 T.P. 16 L

+14 T.P. 22 R

+04 Driveway

+76 Tree 31 R

+64 Tree 26 R

+46 Tree 23 R

+33 Driveway

+05 T.P. 16 L

+08 T.P. 17 R 85+00

+27 +64

+06 T.P. 16 R 84+00

+76 T.P. 16 L

Driveway +24

+90 T.P. 18 R

+51 T.P. 18 L

+73

82+00

Labore Road.

+70 T.P. 37' L

+02 T.P. 20' L

+60 T.P. 17' R

95+00

+52 T.P. 20' R

Cultivated

+34 T.P. 17' L

94+00

+61 T.P. 20' R

100 Driveway

+22 T.P. 16' L

Cultivated

93+00

+38 T.P. 20' R

+03 T.P. 16' L

92+00

+97 T.P. 15' L

+09 T.P. 19' R 91+00

Cultivated land

Cultivated land

+91 T.P. 15' L

90+00

+86 T.P. 19' R

+17 End Fence

+30 E.R.

89+00

20'

4-30-23

Labone Road

102+00

101+00

100+00

99+00

98+00

97+00

96+00

+33 T.P. 26' L

+04 T.P. 21' L

+67 T.P. 21' L

+76 T.P. 18' L

+47 Beg. Fence 19' L

+40 End. Fence 38' L

Meadow land

Mossy land

Bog land

Cultivated land

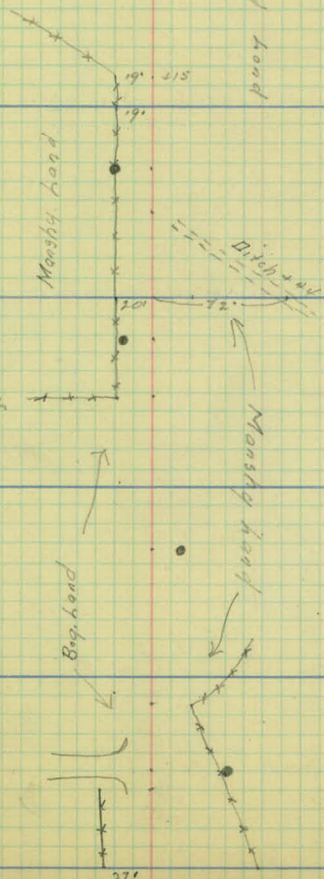
Ditch road

Mossy land

+67 T.P. 16' R

+36 End. Fence 22' R

+50 T.P. 40' R



4-30-23

Labone Road

+80 T.P. 19' L

Cultivated

109500

+66 T.P. 16' L

Cultivated land

+66 G.P. 19' R

School
Grounds

108500

+29 T.P. 36' L

107500

+09 T.P. 31' L

School
Grounds

106500

592 62

+252 Road

+95 T.P. 80' L

105500

+73 T.P. 29' L

Meadow land

Cultivated land

104500

+12 Sign Post W.R

103500

4-30-23

Labore Road

+52 T.P. 20' L

116400

+09 T.P. 21' L

115400

+14 Sigs. R. 17' L
+72 T.P. 20' L

114400

Cultivated land.

Cultivated land

113400

+45 T.P. 20' L

112400

+17 Driveway

+16 T.P. 20' L

111400

110400

Labone Road

Cultivated land

123+00

+95 T.P. 20' L

Field

122+00

+69 T.P. 10' L

+78 Gully, P. 20' R
+73 Inoc. P. 11'

+33 1/2 E Co. Rd. "E"

+17 Inoc. P. 22' R

121+00

+56 T.P. 21' L

Cultivated

120+00

+30 T.P. 20' L

119+00

Cultivated land

land

118+00

+88 T.P. 21' L

117+00

Labore Road

+61 T.C.C. 30' R

130+00

+37 T.P. 39' L

Cultivated

Cultivated

+04 T.P. 40' L

129+00

Pasture

+02 T.P. 21' L

+07 E.C.U.P. 15' R

128+00

Highway

127+00

+56 T.P. 22' L

Cultivated

126+00

+55 T.P. 20' L

Pasture

Cultivated

125+00

+22 T.P. 28' L

124+00

Labone Road

+23 T.P. 20' L

137+00

+21 T.P. 18' L

Meadow Land

Cultivated

136+00

+53

Driveway

+95 T.P. 17' L

135+00

+51 TACC 25' R

+66 T.P. 17' L

134+00

+61 TACC 24' R

+49 T.P. 16' L

133+00

Cultivated

+49 T.P. 17' L

Cultivated

+49 C.P. 20'

132+00

131+00

Labone Road.

+60 T.P. 17' L

Cultivated

29'

Highway +50

Pasture

144+00

28'

+38 T.P. 18' L

Meadow land

+20

25'

143+00

+05 T.P. 18' L

Cultivated

142+00

+76 T.P. 17' L

141+00

+52 T.P. 17' L

140+00

Meadow land

Cultivated

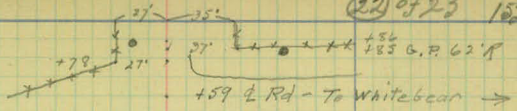
139+00

+22 T.P. 17' L

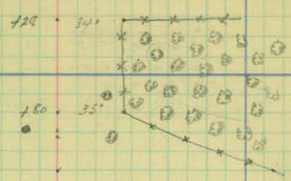
138+00

Labone Road

+89 T.P. 19' L



+71 T.P. 17' L



151+00

+37 T.P. 17' L



+95 Trac. 25' R 150+00

+12 T.P. 17' L

+84 Trac. 25' R

149+00

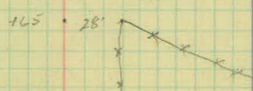
+12 Trac. 25' R

148+00

+95 T.P. 17' L

Cultivated

Cultivated



147+00

146+00

145+00

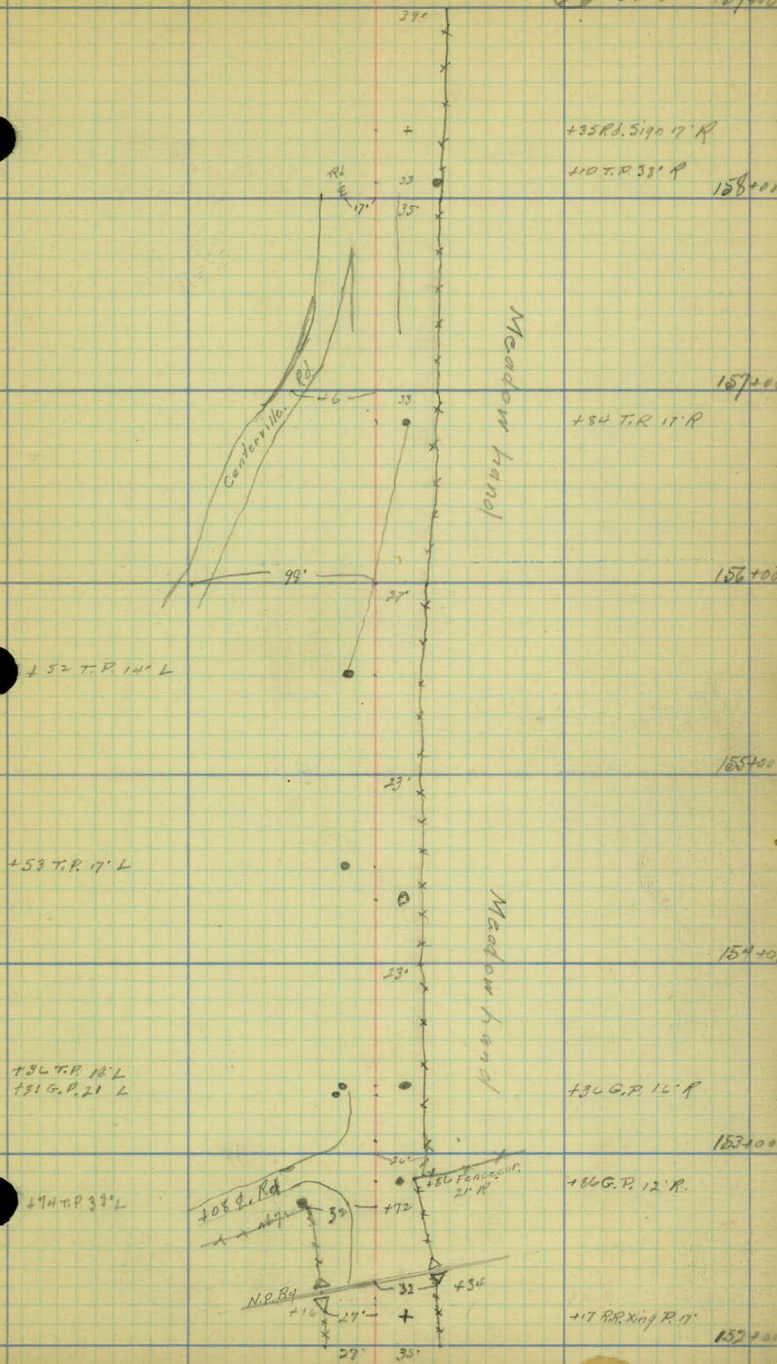
+79 T.P. 17' L

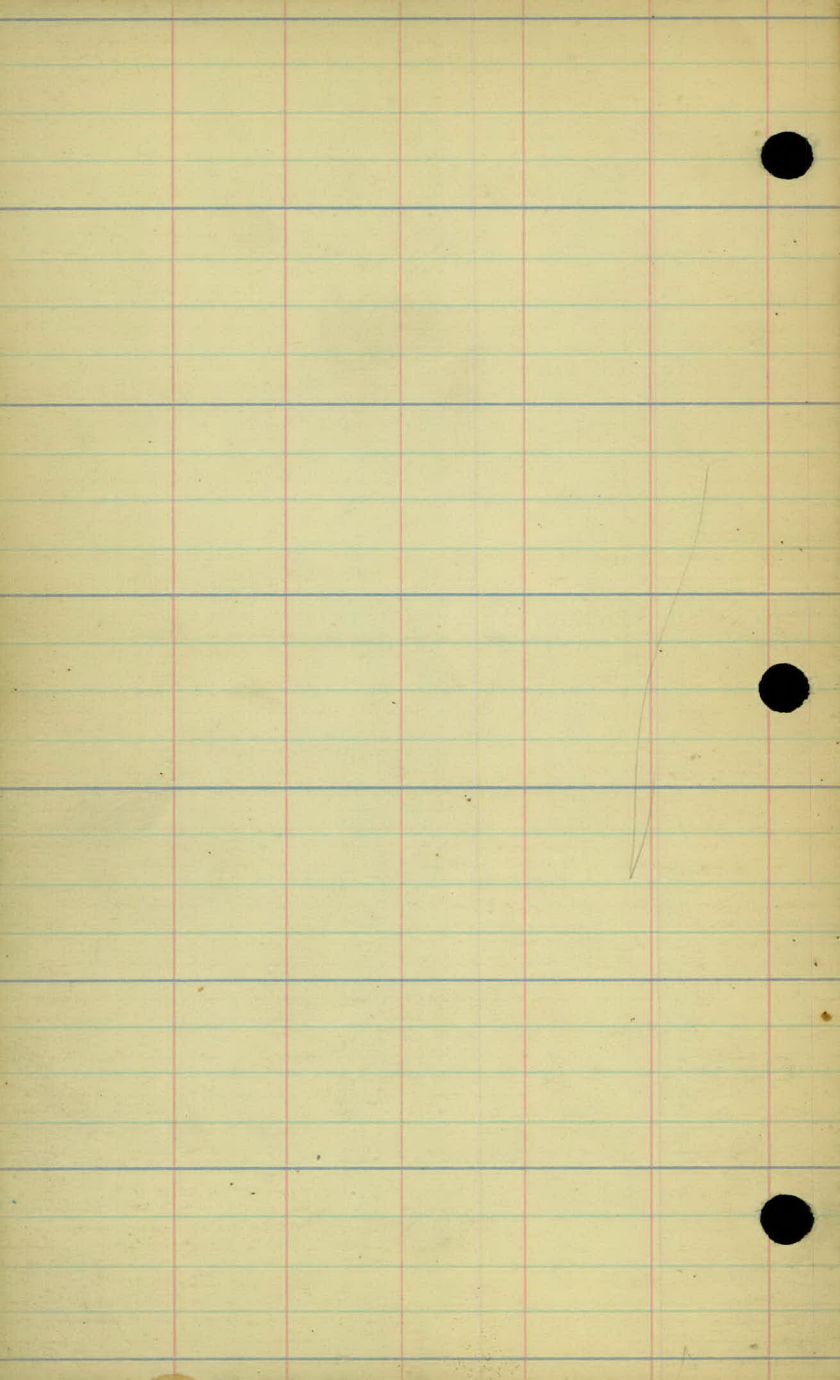


Labone Road

(23) of 23

159.00





LABORE ROAD SURVEY
LEVELS

Job #4

PAGES 1 To 13

RILONG
W MALONEY

Lobore Road Survey Levels

Station	B.S.	H.I.	F.S.	Rod	Elev
	2.62	2 21.62✓			219.00✓
			563		215.99✓
	4.65	2 20.64✓			
			573		214.91✓
	5.22	2 20.13✓			
			425		215.88✓
	5.22	2 21.10✓			
			424		216.86✓
	5.08	2 21.94✓			
			486		217.08✓
	2.08	219.16✓			
			12.89		206.57✓
	2.39	208.66✓			
	2726		696		219.00
			44.56		201.70✓
			2726		17.30
			17.30		
	21900				
	20170				
	1730				

BM End of Edgerton St. Paving Elev 2.19.00

R. Long 4-23-23
W Maloney

BM. Tele Pole 0+65 R 15'

Labore Road Survey Levels

Station	BS	H.I.	F.S.	Rod	Elev
	2.39	208.66 ✓			
0+00				10.3	198.4 ✓
+50				8.8	199.9 ✓
1+00				6.5	202.2 ✓
+50				3.6	205.1 ✓
2+00				1.2	207.5 ✓
+			0.21		208.45 ✓
	13.02	221.47 ✓			
3+00				9.5	212.0 ✓
4+00				5.7	215.1 ✓
5+00				2.8	218.7 ✓
6+00			0.15		221.32 ✓
	9.38	230.70 ✓			
6+00				9.0	221.7 ✓
7+00	24.79 10+9			5.4	225.3 ✓
8+00	14.30			4.2	226.5 ✓
9+00				5.8	224.9 ✓
10+00				6.5	224.2 ✓
11+00				7.2	223.5 ✓
12+00				8.6	222.1 ✓
13+00				9.5	221.2 ✓
			10.13		220.57 ✓
			10.49		206.27
					14.30

20066

- 021

20065

10002

R. Long 4-23-23
W. Maloney

20066

10002

20065

TP

TP

B.M. Tele pole 13+36-25 R

Labore Road Survey Levels

Station	B.S.	H.I.	F.S.	Rod	Elev
	6.53	227.40✓			220.57
14+00				6.8	220.6✓
14+45				7.7	219.7✓
15+00				8.5	218.9✓
16+00				9.8	217.6✓
17+00				9.4	218.0✓
+12.5				8.5	218.9✓
18+00				6.6	220.8✓
19+00				4.2	223.2✓
20+00				2.4	225.0✓
21+00				2.0	225.4✓
21+76.5				2.0	225.4✓
22+00				1.9	225.5✓
23+00				2.8	224.6✓
			2.93		224.47✓
	186	226.33✓	3.13		
			6.06		
24+00	1.69			2.2	224.1✓
25+00	6.06			3.5	222.8✓
+07.9	263				
26+00		223.20		4.5	221.8✓
27+00		220.57		5.7	220.6✓
		2.62			
28+00				6.9	219.4✓
28+70				7.5	218.8✓
28+90				7.5	218.6✓

R. J. Long 4-24-23
W Maloney

B.M.

B.C.

E.C.

B.C.

T.P. Top of stake 23 to

E.C.

~~E.C.~~

☿ of Arcade St

Labore Road Survey Levels

Station	B.S.	H.I.	F.S.	Rod	Elev
	869	226.33			
29+00				7.3	219.0 ✓
30+00				5.4	220.9 ✓
31+00				3.6	222.7 ✓
			3.13		223.20 ✓
	10.75	233.95 ✓			
32+00				9.7	224.2 ✓
33+00				7.9	226.0 ✓
34+00				7.2	226.7 ✓
+ 766				6.54	227.3 ⁴ ✓
35+00				6.4	227.5 ✓
36+00				5.4	228.5 ✓
37+00				4.0	229.9 ✓
38+00				3.4	230.5 ✓
39+13.3				24.1	230.54 ✓
40+00				3.1	230.8 ✓
41+00				2.8	231.1 ✓
42+00				4.3	229.6 ✓
			5.15		228.80 ✓
	3.14	231.94 ✓	2.28		
43+00	22.58		2.93	3.1	228.8 ✓
44+00	16.77			3.4	228.5 ✓
	5.1				
45+00				3.9	228.0 ✓
46+00				4.2	227.7 ✓
	226.38		5.56		226.38 ✓
	20.57		16.77		
	5.6				

R.I. Long 4-24-23
W. Maloney

B.M.

B.M. Tele Pole 30+88 16' R

Top of spike B.C.

E.C. Top of spike

TP Top of stake 42+00

B.M. Tele Pole 46+18 25' R

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
		231.94			
47+00				4.4	227.5 ✓
48+00				4.9	227.5 ✓
49+00				4.1	227.8 ✓
50+00				4.4	227.5 ✓
51+00				5.2	226.7 ✓
52+00				5.1	226.8 ✓
53+00				4.6	227.3 ✓
			4.53		227.41 ✓
	7.87	235.28 ✓			
54+00				8.3	227.0 ✓
55+00				8.4	226.9 ✓
56+00				8.0	227.3 ✓
57+00				6.7	228.6 ✓
4688					
58+00				5.2	230.1 ✓
59+00				4.2	231.1 ✓
60+00				3.7	231.6 ✓
61+00				3.5	231.8 ✓
62+00				4.0	231.3 ✓
+02					
63+00				3.7	231.6 ✓
			3.63		231.65 ✓
	5.08	236.73 ✓			
	12.95		3.92		
	31.4		12.05		
	160.9				
	176.9				
	401				

R.L. Long 4-24-24
W. Maloney

4-24-23

T.P. Top of stake 53700

X

BC,

4-25-23

E.C.

T.P. Top of stake 63400

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
		236.73			
64+00				5.1	231.6 ✓
65+00				4.9	231.8 ✓
66+00				4.6	232.1 ✓
			(392)		232.81 ✓
67+00				4.7	232.0 ✓
68+00				4.6	232.1 ✓
69+00				4.5	232.2 ✓
70+00				4.5	232.2 ✓
71+00				4.4	232.3 ✓
72+00			4.05		232.68 ✓
	2.74	235.42 ✓			
73+00				2.3	233.1 ✓
74+00				2.9	232.5 ✓
74+843					
75+00				3.6	231.8 ✓
76+00				4.7	230.7 ✓
77+00				5.4	230.0 ✓
77+70.4					
78+00				5.3	230.1 ✓
79+00				5.9	229.5 ✓
80+00				5.8	229.6 ✓
			5.58		229.84 ✓
	4.85	234.69	9.63		
	759		461		
	508		12.24		
	12.67		12.67		
			1.57		

R. Long 4-25-23
W Maloney 73

B.M. Tele Pole 66+18 24' R

TP 72+00 P.O.T. on spike

B.C.

E.C.

LABORE ROAD SURVEY LEVELS

Station	B.S.	I.I.	F.S.	Rod	Elev
	4.85	234.69			
81+00				5.2	229.5 ✓
+ 68			(4.61)		230.08 ✓
82+00				5.0	229.7 ✓
83+00				5.3	229.4 ✓
84+00				4.9	229.8 ✓
+ 483					
85+00				4.4	230.3 ✓
86+00				3.8	230.9 ✓
87+00				3.7	231.0 ✓
+ 050			3.76		230.73 ✓
	2.57	233.50 ✓			
87+53.1	7.42			2.8	230.7 ✓
88+00				2.9	230.6 ✓
89+00				3.5	230.0 ✓
90+00				3.8	229.7 ✓
91+00				4.5	229.0 ✓
92+00				4.9	228.6 ✓
93+00				5.4	228.1 ✓
94+00				6.6	226.9 ✓
			10.24		223.26 ✓
			14.00		
	229.84		7.42		
	223.26		6.58		
	6.58				
3.72		226.98			

R. L. Long 4-25-23
W Maloney

B.M. Tele Pole 21' R

B.C.

E.C. TP Top of spike

B.C.

B.M. Tele Pole 96+40 40' R

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
	272	226.98 ^{7.00} ✓			
95+00'				0.7	226.3 ✓
+18'				0.9	226.1 ✓
+50				1.3	225.7 ✓
96+00				1.9	225.1 ✓
+50				2.9	224.1 ✓
+85				3.6	223.4 ✓
97+00				3.5	223.5 ✓
+28'				3.8	223.2 ✓
98+00				3.8	223.2 ✓
99+00				4.4	222.6 ✓
+93				4.2	222.8 ✓
100+00				4.2	222.8 ✓
101+00				3.8	223.2 ✓
102+00				3.6	223.4 ✓
103+00				3.1	223.9 ✓
			3.07		223.91 ✓
	881	232.72 ✓			
104+00	12.53			8.9	223.8 ✓
105+00	481			8.7	224.0 ✓
+57.4	7.72			8.6	224.1 ✓
+64.4				8.4	224.3 ✓
106+00				8.0	224.7 ✓
107+00		230.98 223.26		6.7	226.0 ✓
108+00		7.72		5.2	227.5 ✓
		(1.74) 4.81			230.98 ✓

~~BC,~~

B.C

R.I. Long 4-25-23
W Maloney

Culvert

E.C.

Culvert

TP Top of spine 103+00 P.O.T

BC,

Culvert.

B.M. On school house step NE Cor of cement
platform Sta 107+77± R 69'

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Pod	Elev
	1253	232.72 ✓	3.07		
109+00				3.9	228.8 ✓
109+96'				2.6	230.1 ✓
110+00				2.6	230.7 ✓
111+00				2.0	230.7 ✓
112+00				1.4	231.3 ✓
113+00				1.2	231.5 ✓
			0.65		232.07 ✓
	6.65	238.72 ✓			
114+00				7.2	231.5 ✓
115+00				6.9	231.8 ✓
+28				6.8	231.9 ✓
116+00				6.3	232.4 ✓
117+00				5.4	233.3 ✓
118+00				4.2	234.5 ✓
119+00				2.8	235.9 ✓
120+00				0.7	238.0 ✓
			0.18		238.54 ✓
	246	248.00 ✓			
121+00	28.64			6.9	41.1 240.8 ✓
+12.5	7.67			6.0	42.0 241.7 ✓
+53	20.97			5.2	42.8 242.5 ✓
			(3.87)		244.13 ✓

RIL 4-25-23
WM

EC.

T.P. Top of stake 113+00

Culvert

T.P. Top of stake 120+00

Culvert

BM. 121+73 Tele Guy Pole 27'R = "CE" Line 48+25
34' L Elev 244.03

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
121+00	946	248.00			
122+00				4.2	243.8 ✓
+14.8				2.8	245.2 ✓
123+00				2.9	245.1 ✓
124+00				2.2	245.8 ✓
125+00				2.2	245.8 ✓
126+00				2.7	245.3 ✓
			3.01		244.99 ✓
					238.54
			3.01		6.45

946
301

645

R.I.L 4-25-23
W.M.

E.C.

T.P. Top of stake 126+00

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
	6.3	251.12✓			244.99
127+00				5.6	245.5✓
			2.02		249.10✓
128+00				4.4	246.7✓
					249.10✓
B-	1.33	250.43✓			
129+00				3.8	246.6✓
130+00				4.9	245.5✓
131+00				5.2	245.2✓
132+00				5.7	244.7✓
133+00				6.9	243.5✓
134+00				6.4	244.0✓
			6.16		244.27✓
	2.09	246.36✓			
135+00				2.6	243.8✓
136+00				2.9	243.5✓
137+00				4.3	242.1✓
138+00				6.6	239.8✓
139+00					
138+662				8.2	238.2✓
139+00				8.5	237.9✓
140+00				9.3	237.1✓
141+00				9.7	236.7✓
142+0.0				10.2	236.2✓
			9.83		236.53✓
	1.46	237.99✓			

B.M. Tele Guy Pole 128+10: 18' R

T.P. Top of stake 134+00

T.P. Top of stake 142+00

LABORE ROAD SURVEY LEVELS

Station	B.S.	H.I.	F.S.	Rod	Elev
		^{35.00} 237.99 ✓			
				2.67	235.32 ✓
143+00				2.9	235.2 ✓
144+00				4.2	233.8 ✓
145+00				4.9	233.1 ✓
146+00				5.1	232.9 ✓
147+00				5.5	232.5 ✓
148+00				5.8	232.2 ✓
149+00				7.2	230.8 ✓
			72.8		230.71 ✓
	2.19	232.90 ✓			
150+00				2.9	230.0 ✓
151+00				4.4	228.5 ✓
152+00				6.5	226.4 ✓
152+34.65				7.32	225.58 ✓
153+00				7.0	225.9 ✓
154+00				7.2	225.7 ✓
155+00				6.8	226.1 ✓
			6.40		226.50 ✓
	1.42	227.92 ✓			
156+00				2.1	225.8 ✓
157+00				3.6	224.3 ✓
158+00				5.2	222.7 ✓
159+00				5.5	222.4 ✓
160+00				5.5	222.4 ✓

BM. Tele Pole 143+42 18' Left

T.P. on rock at 149+00

North rail of N.P. Ry

T.P. Top of Stake 155+00

LABORE ROAD SURVEY LEVELS

B.S.	H.I.	F.S.	Rod	Elev
------	------	------	-----	------

	227.92 ✓			
--	----------	--	--	--

		547		222.45 ✓
--	--	-----	--	----------

568	228.13 ✓			
-----	----------	--	--	--

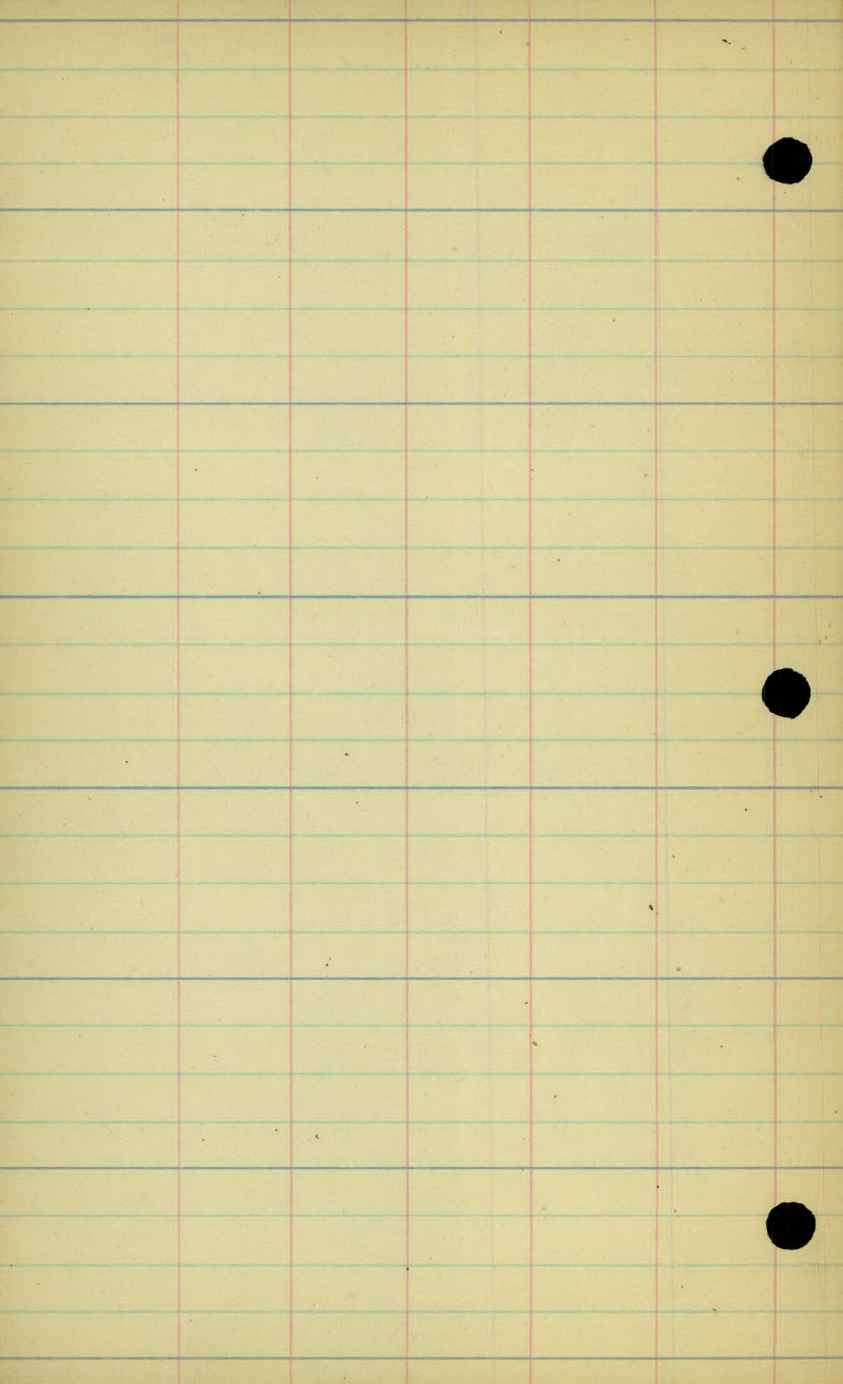
		489		
--	--	-----	--	--

				223.24 ✓
--	--	--	--	----------

LABORE ROAD SURVEY LEVELS

71.7

B.M. Nail in 10" Tree 54, Line 90+45 Elev 223.11



Labore Road Survey Cross Sections

Pages 1 To 16

P. 11
11/11

Labore Road Cross Section

Station		Elev	L	℄	R
0+00	8.6	1984 ✓			
+50	7.0	1999 ✓			
+75					
1+00	4.9	2022 ✓			
+50	12.5	2147 ✓			
+59	11.9	2028			
+62	11.6	2031			
2+00	9.6	2075			
+50	7.5	2072			
3+00	5.1	2120			
4+00	13.3	2158			
5+00	10.4	2187			
6+00	7.7	2217			
7+00	3.9	2253			

Concrete Surface

Sandy Loam Subgrade
Sandy Loam
Gravel Surface

2037.1

$$-\frac{2.7}{33} - \frac{1.3}{20} + \frac{0.7}{16} \frac{00}{10} \quad \frac{00}{10} + \frac{0.3}{14} - \frac{4.9}{23} - \frac{4.2}{33}$$

201 Edg Rd

$$-\frac{1.1}{33} - \frac{1.2}{27} + \frac{0.1}{22} \frac{00}{15} \frac{00}{6} - \frac{0.1}{4} - \frac{0.3}{14} - \frac{2.1}{33}$$

201 Edg Rd.

$$-\frac{0.2}{38} - \frac{0.2}{27} - \frac{0.3}{15} - \frac{0.1}{14} + \frac{0.2}{18} + \frac{2.2}{26} + \frac{2.0}{33}$$

$$\frac{00}{33} - \frac{0.4}{23} - \frac{0.2}{14} + \frac{0.4}{11} - \frac{0.5}{25} + \frac{3.0}{33}$$

$$+ \frac{8.9}{33} + \frac{8.3}{30} - \frac{0.2}{20}$$

$$+ \frac{9.3}{30} + \frac{3.5}{20} - \frac{0.4}{17} + \frac{0.1}{10} - \frac{0.9}{23} + \frac{2.3}{27} + \frac{2.3}{33}$$

$$+ \frac{4.8}{33} + \frac{4.0}{24} - \frac{0.5}{20} + \frac{0.3}{9} - \frac{0.3}{11} - \frac{0.8}{21} + \frac{1.5}{25} - \frac{1.8}{33}$$

$$+ \frac{3.1}{33} + \frac{3.2}{25} - \frac{4.1}{20} - \frac{0.8}{12} - \frac{0.3}{9} - \frac{0.2}{9} - \frac{0.7}{17} - \frac{1.2}{20} - \frac{4.2}{22} + \frac{1.1}{27} + \frac{0.2}{33}$$

$$+ \frac{1.3}{33} + \frac{0.6}{21} - \frac{0.5}{14} - \frac{0.7}{10} - \frac{0.1}{12} - \frac{1.3}{17} - \frac{0.5}{22} + \frac{0.8}{23} + \frac{0.7}{27} - \frac{0.5}{33}$$

$$+ \frac{0.3}{33} + \frac{0.7}{15} - \frac{0.1}{13} - \frac{0.2}{10} - \frac{0.4}{8} - \frac{0.4}{9} - \frac{0.5}{16} + \frac{0.6}{18} + \frac{0.7}{33}$$

$$- \frac{0.1}{33} + \frac{0.4}{27} + \frac{0.3}{15} - \frac{0.3}{13} - \frac{0.5}{8} - \frac{0.5}{9} - \frac{0.6}{15} + \frac{1.9}{24} + \frac{2.2}{33}$$

$$\frac{00}{33} + \frac{0.5}{26} + \frac{0.4}{18} - \frac{0.7}{14} - \frac{0.8}{9} - \frac{0.3}{9} - \frac{0.9}{16} + \frac{1.4}{17} + \frac{2.2}{33}$$

Labore Road Survey Cross Section

Station		Elev	L & R
8+00	2.7	226.5	R/L W.M RW 4-27-23 J.C.
9+00	4.2	224.9	
10+00	4.9	224.2	
11+00	2.3	223.5	
12+00	3.4	222.1	
13+00	4.5	221.2	
+ 55	4.6	221.1	
14+00	5.2	220.6	
15+00	6.8	218.9	
16+00	8.2	217.6	
17+00	9.6	218.0	
+ 70	8.1	218.8	

Sandy Loam Subgrade Gravel Surface

Sandy Loam

Sandy Loam

$$\frac{0.0}{33} - \frac{0.2}{26} - \frac{0.9}{21} - \frac{0.4}{14} - \frac{0.5}{9} - \frac{0.5}{9} - \frac{1.0}{14} - \frac{1.4}{15} - \frac{1.4}{16} - \frac{0.6}{17} - \frac{0.3}{24} - \frac{0.9}{33}$$

$$+ \frac{0.5}{33} - \frac{0.3}{23} - \frac{0.5}{13} - \frac{0.2}{9} - \frac{0.6}{10} - \frac{0.7}{14} - \frac{1.3}{15} - \frac{0.9}{18} - \frac{0.6}{33}$$

$$+ \frac{1.2}{33} - \frac{0.0}{16} - \frac{0.6}{14} - \frac{0.6}{13} - \frac{0.3}{11} - \frac{0.5}{10} - \frac{0.6}{15} - \frac{1.0}{16} - \frac{1.0}{17} - \frac{0.6}{18} - \frac{0.3}{33}$$

$$+ \frac{1.5}{33} + \frac{1.4}{25} - \frac{0.0}{17} - \frac{0.0}{13} - \frac{0.8}{11} - \frac{0.5}{6} - \frac{0.5}{10} - \frac{0.5}{15} - \frac{1.2}{16} - \frac{1.2}{17} - \frac{0.8}{18} - \frac{0.8}{33}$$

$$+ \frac{1.9}{33} + \frac{0.7}{21} - \frac{0.5}{17} - \frac{0.8}{11} - \frac{0.2}{7} - \frac{0.6}{11} - \frac{1.0}{15} - \frac{1.8}{18} - \frac{1.8}{20} - \frac{0.7}{25} - \frac{1.1}{33}$$

$$+ \frac{1.7}{33} + \frac{0.7}{21} + \frac{0.1}{20} - \frac{0.3}{12} - \frac{0.1}{10} - \frac{0.3}{6} - \frac{0.3}{10} - \frac{0.7}{15} - \frac{2.0}{19} - \frac{2.0}{21} - \frac{1.3}{25} - \frac{2.3}{33}$$

$$+ \frac{1.4}{33} - \frac{1.0}{25} - \frac{0.4}{22} - \frac{0.2}{6} - \frac{0.7}{9} - \frac{0.8}{14} - \frac{2.8}{19} - \frac{3.0}{25} - \frac{4.2}{33}$$

$$+ \frac{2.5}{33} + \frac{2.1}{22} - \frac{0.0}{19} - \frac{0.2}{8} - \frac{0.5}{9} - \frac{0.6}{13} - \frac{2.8}{18} - \frac{4.2}{33}$$

Driveway

$$+ \frac{1.5}{33} - \frac{0.4}{23} - \frac{0.7}{19} - \frac{0.3}{9} - \frac{0.7}{9} - \frac{0.9}{12} - \frac{3.6}{15} - \frac{4.4}{27} - \frac{3.6}{30} - \frac{4.2}{33}$$

$$+ \frac{1.7}{33} - \frac{0.9}{26} - \frac{1.0}{14} - \frac{0.4}{11} - \frac{0.6}{9} - \frac{0.7}{12} - \frac{6.1}{21} - \frac{7.7}{33}$$

$$+ \frac{2.1}{33} - \frac{1.0}{18} - \frac{1.1}{12} - \frac{0.6}{11} - \frac{0.3}{10} - \frac{0.5}{10} - \frac{0.8}{14} - \frac{2.2}{18} - \frac{3.2}{22} - \frac{4.7}{33}$$

$$+ \frac{2.0}{33} - \frac{0.4}{17} - \frac{1.1}{14} - \frac{1.1}{12} - \frac{0.5}{9} - \frac{0.3}{6} - \frac{0.5}{16} - \frac{1.0}{15} - \frac{1.7}{17} - \frac{1.7}{19} - \frac{0.8}{21} - \frac{2.6}{33}$$

LABORE ROAD SURVEY CROSS SECTIONS

Station		Elev	L & R
19+00	4.7	223.2	R/L W.M. R.W. 4-27-23 J.C.
20+00	2.8	225.0	
21+00	2.3	225.4	
22+00	2.3	225.5	
23+00	4.2	224.6	
24+00	4.7	224.1	
25+00	6.1	222.8	
26+00	7.0	221.8	
27+00	8.2	220.6	
28+00	7.7	219.4	
+70	8.5	218.8	
28+90	8.3	218.8	

Sandy Loam Subgrade Gravel surface

Sandy Loam

Sandy Loam

X

4-28-23

L

Sheet # 3 of 16

Q

R

$$+ \frac{1.4}{33} + \frac{0.9}{18} - \frac{1.0}{15} - \frac{1.0}{13} - \frac{0.6}{11} - \frac{0.4}{8} - \frac{0.2}{11} - \frac{0.9}{16} - \frac{0.9}{18} + \frac{1.0}{21} + \frac{0.7}{33}$$

$$+ \frac{0.4}{33} + \frac{0.2}{17} - \frac{1.2}{14} - \frac{1.2}{13} - \frac{0.8}{11} - \frac{0.4}{8} - \frac{0.5}{9} - \frac{0.6}{13} - \frac{1.2}{14} - \frac{1.2}{16} - \frac{0.6}{18} - \frac{0.0}{33}$$

$$\frac{0.0}{33} - \frac{0.2}{16} - \frac{1.4}{13} - \frac{1.4}{11} - \frac{0.8}{10} - \frac{0.5}{7} - \frac{0.4}{10} - \frac{0.7}{14} - \frac{1.0}{16} - \frac{1.0}{17} - \frac{0.8}{21} - \frac{0.5}{33}$$

$$\frac{0.0}{33} - \frac{1.5}{24} - \frac{1.6}{14} - \frac{0.5}{11} - \frac{0.4}{9} - \frac{0.5}{8} - \frac{0.5}{12} - \frac{0.8}{16} - \frac{0.6}{24} - \frac{0.3}{33}$$

$$+ \frac{1.0}{33} - \frac{0.3}{29} - \frac{0.9}{24} - \frac{1.1}{19} - \frac{0.3}{12} - \frac{0.2}{7} - \frac{0.2}{10} - \frac{0.7}{15} - \frac{1.2}{25} - \frac{0.8}{27} + \frac{0.2}{33}$$

$$+ \frac{0.8}{33} - \frac{0.5}{28} - \frac{1.4}{19} - \frac{1.4}{17} - \frac{0.6}{11} - \frac{0.3}{8} - \frac{0.6}{10} - \frac{0.7}{14} - \frac{1.7}{24} - \frac{0.4}{26} - \frac{0.3}{33}$$

$$+ \frac{1.3}{33} + \frac{0.7}{28} - \frac{1.1}{22} - \frac{0.2}{10} - \frac{0.0}{6} - \frac{0.3}{11} - \frac{0.3}{15} - \frac{1.2}{24} - \frac{1.2}{26} + \frac{1.2}{28} + \frac{1.2}{33}$$

$$- \frac{1.7}{33} - \frac{1.8}{29} - \frac{1.4}{22} - \frac{1.4}{19} - \frac{0.6}{18} - \frac{0.8}{11} - \frac{0.3}{9} - \frac{0.2}{7} - \frac{0.4}{12} - \frac{0.7}{15} - \frac{1.2}{26} + \frac{1.6}{30} + \frac{1.5}{33}$$

$$\frac{0.0}{33} - \frac{2.3}{21} - \frac{3.5}{18} - \frac{3.5}{16} - \frac{0.5}{10} - \frac{0.4}{8} - \frac{0.4}{7} - \frac{0.6}{13} - \frac{1.7}{16} - \frac{1.7}{23} - \frac{3.8}{33}$$

$$+ \frac{1.9}{33} + \frac{1.6}{29} - \frac{3.4}{21} - \frac{3.4}{16} - \frac{0.4}{9} - \frac{0.6}{9} - \frac{1.9}{17} - \frac{1.9}{19} - \frac{1.7}{21} - \frac{2.7}{33}$$

Culvert

$$- \frac{0.2}{33} - \frac{0.7}{25} - \frac{0.3}{11} - \frac{0.7}{13} - \frac{2.0}{33}$$

LABORE ROAD SURVEY CROSS SECTIONS

Station		Elev	L	Ø	R
29+18	7.9	220.3			
			RIL W.M. 4-28-23 RW JC		
29+27	7.9	220.3			
30+00	6.3	220.9			
31+00	4.5	222.7			
32+00	2.9	224.2			
33+00	6.6	226.0			
34+00	5.9	226.7			
35+00	5.1	227.5			
36+00	4.2	228.5			
37+00	2.7	229.9			
38+00	4.9	230.5			
39+00	4.8	230.5			

Sandy Loam
 Sandy Loam
 Subgrade
 Gravel Surface

$$+\frac{4,6}{33} + \frac{4,1}{31} - \frac{0,3}{27} - \frac{1,3}{23} - \frac{1,3}{21} - \frac{0,5}{11} - \frac{1,3}{17} - \frac{3,4}{33}$$

$$- \frac{1,0}{13} - \frac{1,3}{20} + \frac{3,3}{30} + \frac{3,0}{33}$$

$$+\frac{2,1}{33} - \frac{2,1}{29} + \frac{0,7}{28} - \frac{0,1}{24} - \frac{1,3}{22} - \frac{0,6}{10} - \frac{1,0}{15} - \frac{1,2}{22} + \frac{0,1}{25} + \frac{0,4}{33}$$

$$+\frac{1,8}{33} + \frac{1,9}{27} - \frac{0,9}{24} - \frac{0,7}{18} - \frac{1,1}{16} - \frac{1,0}{22} + \frac{1,8}{27} + \frac{1,7}{33}$$

$$+\frac{0,8}{33} + \frac{0,7}{23} - \frac{0,8}{21} - \frac{0,9}{13} - \frac{0,5}{10} - \frac{0,4}{14} - \frac{0,9}{18} - \frac{0,9}{25} + \frac{0,7}{28} + \frac{0,7}{33}$$

$$- \frac{0,2}{33} - \frac{0,3}{27} - \frac{1,3}{25} - \frac{0,9}{13} - \frac{0,3}{10} - \frac{0,5}{18} - \frac{1,4}{15} - \frac{1,4}{23} + \frac{0,3}{26} + \frac{0,5}{33}$$

$$-\frac{0,2}{33} - \frac{0,2}{27} - \frac{1,2}{23} - \frac{1,7}{20} - \frac{1,7}{18} - \frac{4,1}{15} - \frac{0,4}{10} - \frac{0,5}{13} - \frac{1,2}{19} - \frac{1,2}{20} - \frac{0,6}{22} - \frac{0,2}{25} - \frac{0,0}{33}$$

$$\frac{0,3}{33} - \frac{0,3}{28} - \frac{1,5}{25} - \frac{0,8}{13} - \frac{0,4}{10} - \frac{0,4}{13} - \frac{0,4}{15} - \frac{1,2}{19} - \frac{1,3}{25} - \frac{0,5}{27} - \frac{0,4}{33}$$

$$+\frac{0,6}{33} + \frac{0,5}{23} + \frac{0,2}{21} - \frac{0,8}{19} - \frac{0,8}{14} - \frac{0,5}{11} - \frac{0,2}{12} - \frac{0,3}{15} - \frac{0,8}{22} + \frac{0,1}{23} - \frac{0,0}{33}$$

$$+\frac{0,5}{33} + \frac{0,1}{20} - \frac{1,0}{18} - \frac{1,0}{13} - \frac{0,5}{10} - \frac{0,4}{12} - \frac{1,3}{15} - \frac{1,0}{24} - \frac{0,7}{25} - \frac{0,9}{33}$$

$$\frac{1,0}{33} + \frac{0,3}{24} - \frac{1,0}{20} - \frac{1,0}{15} - \frac{0,7}{11} - \frac{0,0}{10} - \frac{0,8}{15} - \frac{1,3}{24} - \frac{0,5}{26} - \frac{1,1}{33}$$

$$+\frac{0,8}{33} + \frac{0,2}{19} - \frac{1,0}{18} - \frac{0,1}{14} - \frac{0,5}{11} - \frac{0,1}{11} - \frac{1,1}{14} - \frac{1,4}{24} - \frac{0,4}{28} - \frac{0,5}{23}$$

LABORE ROAD SURVEY CROSS SECTION

Station

Elev

L & R

40+00 4.5 230.8

R/L
W/M 4-28-23
RW
J.C.

41+00 4.2 231.1

42+00 5.6 229.6

43+00 6.4 228.8

44+00 6.7 228.5

45+00 3.9 228.0

46+00 4.1 227.7

47+00 4.3 227.5

48+00 4.3 227.5

49+00 4.1 227.8

50+00 4.4 227.5

51+00 5.1 226.5

Sandy Loom Subgrade Gravel surface
Sandy Loom

Sandy Loom

$$+ \frac{0.4}{33} + \frac{0.3}{22} - \frac{0.0}{20} - \frac{1.2}{17} - \frac{1.0}{13} - \frac{0.5}{10} - \frac{0.2}{11} - \frac{0.8}{14} - \frac{1.2}{22} - \frac{0.4}{31} - \frac{0.6}{33}$$

$$+ \frac{0.8}{33} + \frac{0.3}{25} - \frac{2.1}{20} - \frac{2.1}{18} - \frac{1.3}{14} - \frac{0.4}{10} - \frac{0.4}{12} - \frac{3.0}{20} - \frac{3.3}{25} - \frac{0.4}{30} - \frac{0.6}{33}$$

$$+ \frac{1.4}{33} + \frac{0.4}{22} - \frac{2.3}{19} - \frac{2.3}{17} - \frac{0.5}{11} - \frac{0.4}{11} - \frac{3.7}{22} - \frac{2.7}{25} - \frac{2.6}{26} - \frac{3.1}{33}$$

$$\frac{0.0}{33} - \frac{0.3}{27} - \frac{1.0}{25} - \frac{2.5}{21} - \frac{2.5}{18} - \frac{1.3}{14} - \frac{0.5}{9} - \frac{0.5}{12} - \frac{1.2}{15} - \frac{4.7}{24} - \frac{5.4}{33}$$

$$+ \frac{1.3}{33} + \frac{1.2}{26} - \frac{1.3}{23} - \frac{1.3}{18} - \frac{0.7}{11} - \frac{0.4}{8} - \frac{0.5}{10} - \frac{0.6}{12} - \frac{2.6}{17} - \frac{5.1}{22} - \frac{5.1}{25} - \frac{3.4}{29} - \frac{2.6}{33}$$

$$+ \frac{0.7}{33} + \frac{0.5}{26} - \frac{1.9}{19} - \frac{1.9}{16} - \frac{0.5}{11} - \frac{0.4}{9} - \frac{0.3}{10} - \frac{0.5}{13} - \frac{1.3}{17} - \frac{3.8}{23} - \frac{3.9}{27} - \frac{2.3}{30} - \frac{2.6}{33}$$

$$- \frac{0.1}{33} - \frac{0.5}{21} - \frac{1.1}{16} - \frac{0.6}{12} - \frac{0.4}{9} - \frac{0.5}{9} - \frac{2.9}{18} - \frac{2.6}{21} - \frac{3.3}{33}$$

$$+ \frac{0.3}{33} - \frac{0.0}{22} - \frac{0.1}{17} - \frac{0.5}{15} - \frac{0.5}{14} - \frac{0.2}{13} - \frac{0.1}{10} - \frac{0.7}{9} - \frac{1.1}{12} - \frac{3.7}{19} - \frac{3.7}{22} - \frac{2.3}{27} - \frac{3.1}{33}$$

$$+ \frac{0.6}{33} + \frac{0.3}{23} + \frac{0.3}{20} - \frac{1.0}{17} - \frac{1.0}{16} - \frac{0.4}{11} - \frac{0.3}{9} - \frac{0.7}{10} - \frac{0.9}{12} - \frac{1.2}{17} - \frac{3.2}{21} - \frac{3.1}{23} - \frac{2.3}{26} - \frac{2.6}{33}$$

$$+ \frac{0.8}{33} + \frac{0.7}{23} - \frac{1.6}{18} - \frac{1.6}{16} - \frac{0.4}{12} - \frac{0.4}{8} - \frac{0.5}{10} - \frac{0.7}{12} - \frac{3.2}{19} - \frac{3.5}{33}$$

$$+ \frac{0.8}{33} + \frac{0.9}{22} + \frac{0.4}{19} - \frac{1.8}{17} - \frac{1.8}{15} - \frac{0.5}{11} - \frac{0.4}{8} - \frac{0.4}{10} - \frac{0.5}{12} - \frac{2.3}{21} - \frac{3.8}{30} - \frac{4.1}{33}$$

$$+ \frac{0.2}{33} - \frac{0.0}{20} - \frac{2.3}{17} - \frac{2.3}{15} - \frac{0.6}{12} - \frac{0.4}{8} - \frac{0.4}{8} - \frac{0.7}{12} - \frac{3.9}{20} - \frac{4.0}{25} - \frac{3.4}{33}$$

LABORE ROAD SURVEY CROSS SECTIONS

Station		Elev	L & R
52+00	4.6	226.8	R.I.L 4-28-22 W.M R.W J.C.
53+00	4.1	227.3	
54+00	4.4	227.0	
55+00	4.5	226.9	
56+00	4.0	227.3	
57+00	2.7	228.6	
58+00	6.2	230.1	
59+00	5.2	231.1	
60+00	4.6	231.6	
61+00	4.4	231.8	
62+00	4.9	231.3 231.5	
+16	5.2	231.3	

Sandy Loam Subgrade Gravel Surface

Sandy Loam

Sandy Loam

L

Sheet 6 of 16

Q

R

$$+ \frac{0.2}{33} + \frac{0.2}{22} - \frac{1.9}{17} - \frac{1.9}{15} - \frac{0.5}{12} - \frac{0.3}{8} - \frac{0.5}{9} - \frac{0.8}{12} - \frac{3.7}{18} - \frac{4.1}{23} - \frac{3.7}{33}$$

$$+ \frac{0.7}{33} + \frac{0.4}{21} - \frac{1.8}{18} - \frac{1.8}{15} - \frac{0.4}{12} - \frac{0.3}{9} - \frac{0.5}{8} - \frac{0.7}{11} - \frac{2.4}{16} - \frac{3.3}{22} - \frac{2.8}{33}$$

$$+ \frac{0.4}{33} + \frac{0.6}{25} - \frac{0.4}{21} - \frac{1.6}{19} - \frac{1.6}{17} - \frac{0.3}{13} - \frac{0.4}{9} - \frac{0.7}{8} - \frac{0.8}{12} - \frac{2.0}{15} - \frac{2.8}{18} - \frac{2.8}{20} - \frac{1.8}{22} - \frac{1.9}{33}$$

$$- \frac{1.3}{33} - \frac{1.3}{24} - \frac{1.4}{17} - \frac{0.5}{12} - \frac{0.3}{9} - \frac{0.5}{8} - \frac{0.6}{12} - \frac{2.0}{15} - \frac{2.0}{20} - \frac{1.1}{23} - \frac{1.7}{33}$$

$$- \frac{2.0}{33} - \frac{2.1}{27} - \frac{1.5}{16} - \frac{0.6}{12} - \frac{0.5}{9} - \frac{0.5}{9} - \frac{0.8}{12} - \frac{2.6}{18} - \frac{2.6}{21} - \frac{1.0}{23} - \frac{1.4}{33}$$

$$+ \frac{0.5}{33} + \frac{0.4}{25} - \frac{1.0}{22} - \frac{0.7}{14} - \frac{0.7}{10} - \frac{0.4}{7} - \frac{0.8}{13} - \frac{0.8}{14} - \frac{0.8}{15} - \frac{0.1}{18} - \frac{0.3}{33}$$

$$+ \frac{0.5}{33} + \frac{0.6}{25} - \frac{0.4}{23} - \frac{0.3}{16} - \frac{0.9}{15} - \frac{0.5}{12} - \frac{0.4}{9} - \frac{0.6}{9} - \frac{1.1}{14} - \frac{1.1}{15} - \frac{0.3}{17} - \frac{0.3}{23} + \frac{0.2}{33}$$

$$- \frac{0.4}{33} - \frac{0.6}{26} - \frac{0.6}{15} - \frac{1.0}{13} - \frac{0.4}{9} - \frac{0.5}{8} - \frac{0.6}{10} - \frac{1.6}{14} - \frac{0.7}{16} - \frac{0.1}{20} - \frac{0.7}{33}$$

$$- \frac{0.8}{33} - \frac{1.0}{25} - \frac{1.0}{15} - \frac{0.6}{10} - \frac{0.6}{8} - \frac{1.1}{14} + \frac{0.2}{20} + \frac{0.2}{33}$$

$$- \frac{1.1}{33} - \frac{1.1}{26} - \frac{0.6}{15} - \frac{1.0}{14} - \frac{0.5}{9} - \frac{0.6}{8} - \frac{1.2}{14} + \frac{0.3}{21} + \frac{0.5}{33}$$

$$- \frac{0.3}{33} - \frac{0.6}{26} - \frac{0.3}{13} - \frac{0.3}{9} - \frac{0.3}{11} - \frac{0.8}{18} + \frac{0.1}{33}$$

Driveway

$$- \frac{0.6}{33} - \frac{0.5}{9}$$

$$+ \frac{0.1}{33} \text{ Goody Road D}$$

LABORE ROAD SURVEY CROSS SECTIONS

Station		Elev	L	Ø	R
63+00	4.9	231.6	R/L	4-30-23	
			WM		
64+00	4.8	231.6	RW		
			J.C		
65+00	4.6	231.5 ⁸			
66+00	4.3	232.1			
67+00	4.5	232.0			
68+00	4.4	232.1			
69+00	5.2	232.2			
70+00	5.1	232.2			
71+00	5.0	232.3			
72+00	4.7	232.7			
73+00	4.4	233.1			
74+00	4.9	232.5			

Sandy Loam Subgrade Gravel surface

Sandy Loam

Sandy Loam

$$-\frac{0.8}{33} - \frac{1.1}{24} - \frac{1.1}{17} - \frac{0.7}{15} - \frac{0.7}{12} - \frac{0.5}{11} - \frac{0.3}{9} - \frac{0.5}{12} - \frac{1.0}{13} - \frac{1.0}{15} - \frac{0.9}{16} - \frac{0.0}{25} - \frac{0.5}{33}$$

$$-\frac{0.6}{33} - \frac{1.1}{19} - \frac{1.2}{16} - \frac{1.2}{15} - \frac{0.4}{10} - \frac{0.0}{9} - \frac{0.1}{12} - \frac{0.6}{14} - \frac{0.6}{15} - \frac{0.4}{21} - \frac{0.9}{33}$$

$$\frac{0.0}{33} - \frac{0.1}{23} - \frac{0.8}{16} - \frac{1.0}{15} - \frac{1.0}{13} - \frac{0.6}{12} - \frac{0.5}{10} - \frac{0.2}{10} - \frac{0.9}{13} - \frac{1.1}{21} - \frac{0.2}{33}$$

$$-\frac{0.4}{33} - \frac{1.1}{16} - \frac{1.3}{19} - \frac{1.3}{13} - \frac{0.4}{8} - \frac{0.3}{10} - \frac{0.3}{12} - \frac{1.1}{15} - \frac{1.3}{22} - \frac{0.7}{23} - \frac{0.4}{33}$$

$$-\frac{0.5}{33} - \frac{1.1}{17} - \frac{1.1}{14} - \frac{1.1}{14} - \frac{0.8}{13} - \frac{0.4}{10} - \frac{0.2}{8} - \frac{0.3}{12} - \frac{1.1}{18} - \frac{0.2}{25} - \frac{0.6}{33}$$

$$-\frac{0.2}{33} - \frac{0.5}{24} - \frac{1.4}{17} - \frac{0.9}{13} - \frac{0.5}{12} - \frac{0.5}{9} - \frac{0.2}{9} - \frac{0.5}{13} - \frac{0.9}{14} - \frac{0.9}{16} - \frac{0.5}{20} - \frac{0.4}{33}$$

$$-\frac{0.6}{33} - \frac{0.8}{25} - \frac{0.8}{20} - \frac{0.9}{15} - \frac{0.9}{13} - \frac{0.4}{12} - \frac{0.9}{10} - \frac{0.3}{8} - \frac{0.1}{9} - \frac{0.1}{12} - \frac{0.5}{16} - \frac{0.1}{22} - \frac{0.4}{33}$$

$$-\frac{0.5}{33} - \frac{0.5}{22} - \frac{0.9}{19} - \frac{0.8}{16} - \frac{0.8}{14} - \frac{0.6}{12} - \frac{0.3}{8} - \frac{0.3}{12} - \frac{0.7}{14} - \frac{0.1}{19} - \frac{0.1}{33}$$

$$-\frac{0.6}{33} - \frac{0.7}{24} - \frac{0.6}{16} - \frac{0.2}{11} - \frac{0.0}{8} - \frac{0.1}{11} - \frac{0.6}{14} - \frac{0.0}{17} - \frac{0.2}{20} - \frac{0.1}{33}$$

$$-\frac{0.4}{33} - \frac{0.2}{21} - \frac{0.2}{16} - \frac{0.9}{15} - \frac{0.9}{14} - \frac{0.5}{10} - \frac{0.2}{9} - \frac{0.3}{14} + \frac{0.9}{20} + \frac{0.3}{33}$$

$$\frac{0.0}{33} + \frac{0.4}{22} + \frac{0.2}{15} - \frac{0.8}{13} - \frac{0.8}{11} - \frac{0.2}{8} - \frac{0.0}{9} - \frac{0.2}{12} + \frac{0.4}{23} - \frac{0.2}{33}$$

$$+\frac{0.9}{33} + \frac{1.1}{23} + \frac{0.8}{15} - \frac{0.1}{14} - \frac{0.1}{12} - \frac{0.3}{10} - \frac{0.1}{7} - \frac{0.3}{9} - \frac{0.6}{15} - \frac{0.1}{23} - \frac{1.0}{33}$$

LABORE ROAD SURVEY CROSS SECTIONS

Station

Elev

L & R

75+00

5.7

231.8

RIL

W.M. 4-30-23

RW

JC

76+00

3.6

230.7

77+00

4.2

230.0

78+00

4.1

230.1

79+00

4.6

229.5

80+00

4.7

229.6

81+00

4.7

229.5

82+00

4.6

229.7

83+00

4.9

229.4

84+00

5.6

229.8

85+00

5.1

230.3

86+00

4.4

230.9

Sandy Loam Subgrade Graveled Surface

Sandy Loam

Sandy Loam

$$+\frac{0.4}{33} + \frac{0.4}{21} \frac{0.0}{16} - \frac{0.3}{14} - \frac{0.2}{10} - \frac{0.4}{9} - \frac{0.7}{13} - \frac{0.2}{21} \frac{0.9}{27} - \frac{1.3}{33}$$

$$+\frac{0.4}{33} + \frac{0.5}{24} - \frac{0.1}{17} - \frac{0.7}{16} \frac{0.7}{15} - \frac{0.4}{12} - \frac{0.2}{7} - \frac{0.9}{12} - \frac{0.4}{18} \frac{0.0}{24} - \frac{0.1}{33}$$

$$+\frac{0.3}{33} + \frac{0.1}{24} - \frac{0.4}{18} - \frac{0.9}{16} \frac{0.9}{15} - \frac{0.2}{14} - \frac{0.2}{10} - \frac{0.3}{7} - \frac{0.9}{33} \quad \text{Driveway}$$

$$+\frac{0.1}{33} - \frac{0.3}{21} - \frac{0.7}{15} - \frac{0.3}{10} - \frac{0.4}{8} - \frac{0.5}{12} - \frac{1.3}{13} - \frac{1.3}{15} \frac{1.0}{17} - \frac{0.9}{22} \frac{1.6}{33}$$

$$+\frac{0.5}{33} + \frac{0.3}{20} - \frac{0.7}{17} \frac{0.7}{15} - \frac{0.2}{13} - \frac{0.2}{8} - \frac{0.3}{9} - \frac{0.4}{14} - \frac{1.6}{15} - \frac{1.6}{22} \frac{0.4}{24} - \frac{1.0}{33}$$

$$\frac{0.0}{33} + \frac{0.1}{23} - \frac{0.9}{16} - \frac{0.7}{13} \frac{0.3}{8} - \frac{0.1}{9} - \frac{0.3}{14} - \frac{1.6}{19} - \frac{1.5}{24} - \frac{0.8}{26} \frac{1.3}{33}$$

$$+\frac{0.1}{33} \frac{0.0}{21} - \frac{0.8}{20} - \frac{0.8}{27} + \frac{0.1}{12} - \frac{0.1}{9} - \frac{0.2}{9} - \frac{0.4}{12} - \frac{0.7}{16} \frac{0.8}{24} - \frac{1.4}{33}$$

$$+\frac{0.1}{33} + \frac{0.1}{23} \frac{0.9}{15} - \frac{0.9}{15} - \frac{0.1}{13} - \frac{0.1}{9} - \frac{0.3}{9} - \frac{0.1}{10} - \frac{0.5}{14} \frac{1.9}{17} - \frac{1.9}{22} - \frac{1.1}{27} \frac{1.1}{33}$$

$$-\frac{0.4}{33} - \frac{0.4}{26} - \frac{1.1}{18} \frac{0.7}{16} - \frac{0.3}{10} - \frac{0.2}{7} - \frac{0.6}{13} - \frac{1.6}{18} - \frac{1.8}{23} - \frac{1.5}{27} \frac{1.6}{33}$$

$$+\frac{0.2}{33} \frac{0.0}{24} - \frac{0.9}{21} \frac{0.7}{15} - \frac{0.2}{11} - \frac{0.4}{8} - \frac{0.9}{14} - \frac{1.6}{16} - \frac{1.8}{21} - \frac{1.3}{24} \frac{0.9}{33}$$

$$+\frac{0.4}{33} + \frac{0.3}{27} - \frac{0.7}{22} - \frac{0.3}{16} - \frac{0.2}{11} - \frac{0.2}{8} - \frac{0.4}{12} - \frac{0.8}{14} - \frac{0.8}{20} - \frac{0.8}{33}$$

$$+\frac{0.3}{33} + \frac{0.1}{26} - \frac{0.7}{23} - \frac{0.7}{19} - \frac{0.4}{15} - \frac{0.4}{9} - \frac{0.2}{9} - \frac{0.6}{16} - \frac{0.9}{33} \quad \text{Driveway}$$

LABORE ROAD SURVEY CROSS SECTION

Station		Elev	L	E	R
87+00	4.4	231.0			

RIL
W.M
RW
J.C
4-30-23

88+00	4.8	230.6			
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89+00	5.4	230.0			
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90+00	5.8	229.7			
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91+00	4.0	229.0			
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92+00	4.4	228.6			
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93+00	5.0	228.1			
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94+00	6.1	226.9			
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95+00	3.0	226.3			
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96+00	4.2	225.1			
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+50

97+00	5.9	223.5			
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98+00	6.3	223.2			
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Gravel surface
Sandy Loom
Sandy Loom
Sandy Loom Subgrade
Swamp Loom
Black Loom
Black Loom Subgrade
Swamp Loom
Black Loom

$$-\frac{0.7}{33} - \frac{0.8}{28} - \frac{1.5}{22} - \frac{1.5}{20} - \frac{0.9}{15} - \frac{0.6}{9} - \frac{0.4}{9} - \frac{0.7}{12} - \frac{1.1}{15} - \frac{0.7}{20} - \frac{1.3}{24} - \frac{1.2}{33}$$

$$-\frac{0.5}{27} - \frac{0.4}{23} - \frac{0.4}{15} - \frac{1.1}{12} - \frac{0.5}{11} - \frac{0.5}{10} - \frac{0.2}{9} - \frac{0.2}{12} - \frac{1.1}{14} - \frac{1.0}{16} - \frac{0.6}{17} - \frac{1.0}{23} - \frac{0.9}{33}$$

$$+\frac{0.1}{33} + \frac{0.1}{24} - \frac{0.4}{23} - \frac{0.4}{16} - \frac{0.6}{15} - \frac{0.6}{13} - \frac{0.2}{11} - \frac{0.6}{9} - \frac{0.3}{10} - \frac{0.6}{15} - \frac{1.0}{20} - \frac{1.5}{33}$$

$$-\frac{0.6}{33} - \frac{0.6}{13} - \frac{0.5}{10} - \frac{0.4}{8} - \frac{0.7}{14} - \frac{0.9}{21} - \frac{1.6}{22} - \frac{3.1}{33}$$

$$\frac{0.0}{33} - \frac{0.3}{12} - \frac{0.3}{9} - \frac{0.4}{8} - \frac{0.4}{12} - \frac{0.9}{16} - \frac{0.8}{21} - \frac{2.2}{23} - \frac{2.4}{33}$$

$$+\frac{1.2}{33} + \frac{0.3}{18} - \frac{0.6}{16} - \frac{0.6}{15} - \frac{0.1}{13} - \frac{0.2}{9} - \frac{0.5}{8} - \frac{0.7}{12} - \frac{1.2}{15} - \frac{0.9}{20} - \frac{2.0}{23} - \frac{2.4}{33}$$

$$+\frac{1.4}{33} - \frac{0.3}{16} - \frac{0.2}{14} - \frac{0.2}{10} - \frac{0.1}{7} - \frac{0.0}{10} - \frac{1.6}{21} - \frac{2.2}{23} - \frac{3.1}{33}$$

$$+\frac{2.5}{33} + \frac{2.8}{28} - \frac{0.1}{14} - \frac{0.1}{10} - \frac{0.7}{12} - \frac{0.3}{15} - \frac{1.2}{20} - \frac{2.4}{23} - \frac{2.6}{33}$$

$$+\frac{0.9}{33} - \frac{0.4}{18} - \frac{0.8}{14} - \frac{0.5}{13} - \frac{0.1}{8} - \frac{0.4}{8} - \frac{0.2}{10} - \frac{0.9}{13} - \frac{0.9}{15} - \frac{0.3}{16} - \frac{0.7}{20} - \frac{2.2}{23} - \frac{2.5}{33}$$

$$-\frac{0.2}{33} - \frac{0.9}{24} - \frac{0.8}{20} - \frac{1.0}{19} - \frac{1.0}{17} - \frac{0.3}{16} - \frac{0.1}{9} - \frac{0.4}{10} - \frac{1.3}{15} - \frac{2.3}{17} - \frac{1.7}{33}$$

$$-\frac{3.1}{33} - \frac{3.4}{27} - \frac{5.0}{26} - \frac{5.0}{24} - \frac{3.1}{23} - \frac{3.1}{16} - \frac{0.1}{9} - \frac{0.3}{8} - \frac{0.6}{10} - \frac{3.2}{19} - \frac{3.2}{33}$$

$$-\frac{2.6}{33} - \frac{2.7}{28} - \frac{4.7}{27} - \frac{4.7}{25} - \frac{2.7}{24} - \frac{2.9}{17} - \frac{2.5}{11} - \frac{0.4}{8} - \frac{0.7}{12} - \frac{3.3}{16} - \frac{3.7}{33}$$

LABORE ROAD SURVEY CROSS SECTION

Station		Elev	L	E	R
99+00	5.1	222.6	Swamp Land	Black Loom subgrade	Swamp Land
100+00	4.8	222.8			
101+00	4.5	232			X V
102+00	4.3	23.4			
103+00	3.6	23.9			Sandy Loom
104+00	3.8	23.8	X	Sand Loom subgrade	
105+00	3.7	24.0			
106+00	8.0	24.7			
107+00	6.6	26.0			
108+00	5.1	27.5			
109+00	3.7	28.8			
110+00	2.5	30.1			

 R.L.
 WM
 RW
 JC,

4-30-23

L

Sheet # 0 of 16

C

R

$$-\frac{2,3}{33} - \frac{2,4}{18} - \frac{0,3}{13} - \frac{0,3}{10} - \frac{0,6}{7} - \frac{2,2}{13} - \frac{2,7}{16} - \frac{2,4}{33}$$

$$-\frac{2,8}{33} - \frac{2,5}{22} - \frac{3,0}{20} - \frac{3,0}{18} - \frac{0,9}{16} - \frac{0,2}{12} - \frac{0,4}{11} - \frac{0,5}{8} - \frac{3,1}{16} - \frac{3,1}{20} - \frac{1,3}{21} - \frac{1,0}{33}$$

$$-\frac{3,0}{33} - \frac{2,4}{22} - \frac{2,5}{17} - \frac{0,3}{9} - \frac{0,5}{8} - \frac{0,4}{9} - \frac{0,6}{12} - \frac{2,3}{16} - \frac{2,1}{21} - \frac{1,3}{33}$$

$$-\frac{2,2}{33} - \frac{1,5}{21} - \frac{2,4}{18} - \frac{2,4}{16} - \frac{0,4}{12} - \frac{0,1}{10} - \frac{0,2}{9} - \frac{0,5}{9} - \frac{0,4}{12} - \frac{2,8}{17} - \frac{1,0}{24} - \frac{0,6}{33}$$

$$-\frac{1,9}{33} - \frac{0,5}{20} - \frac{1,4}{18} - \frac{1,4}{16} - \frac{0,6}{12} - \frac{0,5}{9} - \frac{0,4}{8} - \frac{0,4}{12} - \frac{1,4}{17} - \frac{0,9}{18} - \frac{0,0}{23} + \frac{0,4}{33}$$

$$-\frac{1,4}{33} - \frac{1,4}{23} - \frac{1,9}{20} - \frac{1,9}{17} - \frac{0,4}{14} - \frac{0,2}{10} - \frac{0,4}{8} - \frac{0,5}{12} - \frac{2,1}{16} - \frac{0,7}{26} - \frac{0,2}{33}$$

$$\frac{1,7}{33} - \frac{1,7}{23} - \frac{2,1}{20} - \frac{2,1}{18} - \frac{0,1}{13} - \frac{0,2}{10} - \frac{0,3}{9} - \frac{1,5}{15} - \frac{1,6}{24} - \frac{1,3}{33}$$

$$-\frac{3,5}{33} - \frac{3,1}{19} + \frac{0,2}{13} - \frac{0,0}{11} - \frac{0,2}{7} - \frac{1,6}{13} - \frac{2,1}{22} - \frac{1,5}{33}$$

$$-\frac{3,7}{33} - \frac{3,3}{26} - \frac{2,9}{19} - \frac{0,1}{12} - \frac{0,4}{11} - \frac{0,3}{9} - \frac{1,2}{12} - \frac{1,2}{17} + \frac{0,1}{33}$$

$$-\frac{0,9}{33} - \frac{0,6}{18} - \frac{1,0}{17} - \frac{1,0}{15} - \frac{0,1}{12} - \frac{0,2}{10} - \frac{0,1}{9} - \frac{0,0}{10} - \frac{0,8}{12} - \frac{0,8}{14} - \frac{0,7}{15} + \frac{2,6}{33}$$

$$+\frac{0,3}{33} + \frac{0,2}{25} + \frac{0,3}{16} - \frac{0,8}{15} - \frac{0,8}{14} - \frac{0,4}{9} - \frac{0,2}{10} - \frac{0,3}{13} - \frac{0,8}{14} - \frac{0,8}{15} - \frac{0,4}{16} + \frac{1,7}{21} + \frac{1,7}{33}$$

$$+\frac{0,3}{33} + \frac{0,2}{26} + \frac{0,1}{17} - \frac{0,8}{15} - \frac{0,8}{14} - \frac{0,5}{9} - \frac{0,2}{11} - \frac{1,0}{12} - \frac{1,0}{13} - \frac{0,4}{14} - \frac{1,2}{19} - \frac{0,9}{33}$$

LABORE ROAD SURVEY GROSS SECTION

Station	Elev	L	C	R
		^	^	^
111+00	5.6	30.7		

112+00	5.0	31.3		
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R/L

W/M
RW
JC

4-30-23

113+00	4.8	31.5		
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114+00	4.9	31.5		
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115+00	4.7	31.8		
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116+00	4.1	32.4		
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117+00	7.9	223.3	233.3	
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Sandy Loam

Sandy Loam Subgrade Gravel surface

+15	7.5	223.7	33.7	
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+25	7.4	223.8	33.8	
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118+50	7.0	224.2	34.2	
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118+00	6.7	34.5		
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119+00	5.2	35.9		
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$$= \frac{0.1}{33} + \frac{0.3}{22} - \frac{0.3}{18} - \frac{10}{17} - \frac{10}{16} - \frac{0.8}{15} - \frac{0.5}{10} - \frac{0.5}{9} - \frac{1.1}{13} - \frac{1.1}{14} - \frac{0.0}{16} + \frac{0.7}{19} + \frac{1.1}{33}$$

$$- \frac{0.1}{33} - \frac{0.1}{22} - \frac{0.5}{17} - \frac{10}{16} - \frac{1.0}{15} - \frac{0.6}{14} - \frac{0.4}{10} - \frac{0.4}{8} - \frac{0.3}{11} - \frac{1.0}{14} - \frac{1.0}{15} - \frac{0.1}{17} - \frac{0.3}{33}$$

$$+ \frac{0.7}{33} - \frac{0.5}{18} - \frac{1.2}{16} - \frac{0.9}{15} - \frac{0.4}{11} - \frac{0.5}{10} - \frac{0.2}{7} - \frac{0.1}{10} - \frac{0.6}{13} - \frac{0.6}{14} - \frac{0.3}{15} + \frac{0.2}{33}$$

$$\swarrow - \frac{1.3}{33} - \frac{0.6}{19} - \frac{1.2}{16} - \frac{1.2}{15} - \frac{0.3}{9} - \frac{0.3}{8} - \frac{0.1}{10} - \frac{0.9}{11} - \frac{0.9}{13} + \frac{0.2}{15} + \frac{0.3}{33}$$

$$- \frac{2.3}{33} - \frac{1.5}{21} - \frac{1.7}{19} - \frac{1.3}{16} - \frac{0.3}{12} - \frac{0.3}{10} - \frac{0.3}{8} - \frac{0.4}{10} - \frac{1.5}{13} - \frac{1.5}{15} - \frac{0.6}{16} - \frac{0.3}{33}$$

$$\frac{2.2}{33} - \frac{1.9}{20} - \frac{1.2}{20} - \frac{1.7}{18} - \frac{1.7}{16} - \frac{0.5}{13} - \frac{0.2}{11} - \frac{0.5}{10} - \frac{0.3}{8} - \frac{0.3}{10} - \frac{0.9}{12} - \frac{0.9}{13} - \frac{0.3}{14} - \frac{0.2}{33}$$

$$- \frac{0.8}{33} - \frac{0.4}{24} - \frac{0.5}{16} - \frac{0.1}{10} - \frac{0.5}{9} - \frac{0.1}{8} + \frac{0.2}{10} - \frac{0.4}{13} - \frac{0.4}{13} + \frac{1.2}{17} + \frac{1.0}{33}$$

$$- \frac{1.0}{33} - \frac{0.8}{23} - \frac{0.7}{16} - \frac{0.4}{11} - \frac{0.7}{10} - \frac{0.1}{8} - \frac{0.0}{11} + \frac{0.5}{26} + \frac{0.6}{33}$$

$$- \frac{0.1}{8.0} - \frac{0.8}{14} - \frac{0.6}{24} - \frac{2.2}{27} - \frac{1.6}{33}$$

$$- \frac{0.8}{33} - \frac{0.2}{21} - \frac{0.9}{15} - \frac{0.4}{9} - \frac{0.2}{10} - \frac{0.0}{13} - \frac{2.1}{17} - \frac{1.6}{27} - \frac{3.9}{33}$$

$$\frac{0.0}{33} - \frac{0.2}{23} - \frac{0.8}{17} - \frac{0.2}{10} - \frac{0.3}{7} - \frac{0.1}{9} - \frac{0.3}{12} - \frac{1.6}{15} - \frac{0.1}{33}$$

$$- \frac{2.3}{33} - \frac{2.1}{22} - \frac{1.7}{18} - \frac{0.2}{11} - \frac{0.2}{6} - \frac{0.0}{8} - \frac{0.1}{12} - \frac{0.7}{13} - \frac{0.7}{15} - \frac{0.0}{16} - \frac{0.0}{27} + \frac{0.8}{23} + \frac{1.0}{33}$$

LABORE ROAD SURVEY CROSS SECTION

Station	Elev	L	±	R
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120+00	3.1	38.0		
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FIL

121+00	7.8	41.1		
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WM

RW 5-1-23

J.C

+

+ 70

+ 80	6.7	42.2		
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122+00	6.4	43.8		
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+ 20	6.0	44.2		
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123+00	5.0	45.1		
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+ 65	4.4	45.7		
------	-----	------	--	--

124+00	4.3	45.8		
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+ 40	4.0	46.1		
------	-----	------	--	--

125+00	4.2	45.8		
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126+00	6.3	45.3		
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127+00	6.0	45.5		
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128+00	4.8	46.7		
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Sandy Loam Subgrade Gravel Surface

Sandy Loam

Sandy Loam

L

C

R

$$-\frac{3.9}{33} - \frac{3.3}{24} - \frac{0.9}{16} - \frac{0.2}{11} - \frac{0.3}{7} - \frac{0.1}{9} - \frac{0.4}{13} + \frac{0.8}{33}$$

$$-\frac{0.5}{33} - \frac{0.2}{18} - \frac{0.0}{8} - \frac{0.0}{12} - \frac{0.3}{15} + \frac{0.4}{22} + \frac{2.4}{33}$$

$$-\frac{1.5}{33} - \frac{0.3}{25} - \frac{1.0}{18} - \frac{1.1}{14} - \frac{0.3}{11} - \frac{0.0}{13} - \frac{0.8}{14} - \frac{0.8}{16} - \frac{0.0}{19} + \frac{0.4}{23} + \frac{2.2}{33}$$

$$\frac{1.8}{33} - \frac{0.8}{26} - \frac{1.1}{21} - \frac{1.1}{14} - \frac{0.4}{12} - \frac{0.0}{8} - \frac{0.0}{13} - \frac{1.2}{14} - \frac{1.2}{16} + \frac{1.2}{23} + \frac{2.2}{33}$$

$$-\frac{1.4}{33} - \frac{0.7}{27} - \frac{1.2}{21} - \frac{1.1}{15} - \frac{0.4}{12} - \frac{0.0}{11} - \frac{0.5}{14} + \frac{0.4}{20} + \frac{0.6}{33}$$

$$-\frac{3.5}{33} - \frac{2.2}{22} - \frac{2.0}{14} - \frac{1.0}{12} - \frac{0.5}{8} - \frac{0.3}{8} - \frac{0.4}{12} - \frac{1.1}{15} - \frac{0.7}{18} - \frac{1.0}{27} - \frac{1.4}{33}$$

$$-\frac{3.1}{33} - \frac{2.0}{24} - \frac{1.3}{14} - \frac{0.7}{12} - \frac{0.0}{11} - \frac{1.0}{13} - \frac{1.0}{15} - \frac{0.0}{17} + \frac{0.3}{25} - \frac{0.0}{33}$$

$$-\frac{1.4}{33} - \frac{0.6}{20} - \frac{1.3}{14} - \frac{0.4}{12} - \frac{0.3}{11} - \frac{1.0}{13} - \frac{1.0}{14} - \frac{0.5}{17} - \frac{0.7}{24} + \frac{2.9}{30} + \frac{2.8}{33}$$

$$-\frac{1.0}{33} - \frac{0.4}{22} - \frac{1.4}{16} - \frac{0.7}{13} - \frac{0.5}{10} - \frac{0.3}{11} - \frac{1.0}{12} - \frac{1.0}{14} - \frac{0.3}{16} + \frac{0.1}{21} + \frac{4.8}{29} + \frac{4.5}{33}$$

$$+\frac{0.4}{33} + \frac{0.7}{25} - \frac{0.3}{24} - \frac{0.6}{21} - \frac{1.4}{19} - \frac{1.4}{16} - \frac{0.4}{14} - \frac{0.5}{11} - \frac{0.1}{9} - \frac{0.7}{13} - \frac{0.7}{15} + \frac{0.9}{26} + \frac{1.2}{33}$$

$$-\frac{2.5}{33} - \frac{2.2}{28} - \frac{1.8}{19} - \frac{2.4}{18} - \frac{2.4}{16} - \frac{0.6}{12} - \frac{0.1}{9} - \frac{0.5}{12} - \frac{1.4}{13} - \frac{1.5}{33}$$

$$-\frac{4.0}{33} - \frac{3.6}{24} - \frac{3.3}{17} - \frac{0.4}{12} - \frac{0.2}{7} - \frac{0.2}{10} - \frac{0.9}{13} - \frac{0.0}{33}$$

$$-\frac{2.8}{33} - \frac{1.8}{24} - \frac{0.8}{18} - \frac{0.4}{15} - \frac{0.4}{12} - \frac{0.1}{7} - \frac{0.3}{8} - \frac{0.0}{12} + \frac{0.6}{18} + \frac{2.1}{20} + \frac{4.8}{26} + \frac{7.0}{33}$$

LABORE ROAD SURVEY CROSS SECTION

L 2 R

R.I.L.
W.M.
R.W.
J.C.

5-1-23

129+00	4.9	46.6
130+00	6.0	45.5
131+00	6.4	45.2
132+00	3.7	44.7
133+00	4.9	43.5
134+00	4.4	44.0
135+00	4.7	43.8
136+00	5.1	43.5
137+00	6.4	42.1
138+00	2.4	39.8

Sandy Loam Subgrade Gravel Surface

Sandy Loam

Sandy Loam

$$\frac{00}{33} + \frac{05}{21} - \frac{09}{18} - \frac{09}{16} - \frac{03}{15} - \frac{04}{12} - \frac{02}{7} - \frac{01}{10} - \frac{08}{12} - \frac{08}{14} \frac{00}{16} + \frac{04}{21} + \frac{59}{27} + \frac{72}{33}$$

$$- \frac{44}{33} - \frac{38}{28} - \frac{23}{19} - \frac{21}{16} - \frac{04}{12} - \frac{04}{9} - \frac{02}{8} - \frac{02}{10} - \frac{07}{13} - \frac{07}{15} - \frac{19}{23} + \frac{25}{28} + \frac{37}{33}$$

$$- \frac{29}{33} - \frac{25}{27} - \frac{24}{17} - \frac{07}{12} - \frac{05}{10} + \frac{00}{8} - \frac{00}{11} - \frac{12}{13} - \frac{12}{16} + \frac{13}{21} + \frac{19}{33}$$

$$- \frac{11}{33} - \frac{09}{24} - \frac{16}{16} - \frac{05}{12} - \frac{05}{9} - \frac{01}{8} - \frac{02}{11} - \frac{12}{13} - \frac{12}{18} + \frac{12}{22} - \frac{17}{33}$$

$$- \frac{44}{33} - \frac{28}{20} - \frac{07}{14} - \frac{04}{10} + \frac{01}{8} + \frac{01}{12} - \frac{08}{13} - \frac{08}{15} + \frac{05}{20} + \frac{13}{33}$$

$$- \frac{27}{33} - \frac{17}{15} - \frac{09}{12} - \frac{06}{9} \frac{00}{7} - \frac{02}{11} - \frac{12}{13} - \frac{10}{23} - \frac{03}{30} + \frac{08}{33}$$

$$- \frac{23}{33} - \frac{17}{15} - \frac{07}{12} - \frac{05}{9} - \frac{01}{7} - \frac{02}{12} - \frac{10}{14} - \frac{10}{17} \frac{00}{22} + \frac{04}{33}$$

$$- \frac{15}{33} - \frac{07}{18} - \frac{20}{16} - \frac{20}{14} - \frac{07}{12} - \frac{05}{9} \frac{00}{7} \frac{00}{12} - \frac{10}{13} - \frac{08}{17} + \frac{05}{19} + \frac{08}{33}$$

$$- \frac{12}{33} - \frac{07}{19} - \frac{15}{17} - \frac{15}{15} \frac{06}{12} - \frac{05}{9} - \frac{01}{7} - \frac{00}{12} - \frac{14}{19} - \frac{09}{28} + \frac{09}{33}$$

$$- \frac{10}{33} - \frac{03}{19} - \frac{13}{16} - \frac{13}{14} \frac{04}{12} - \frac{03}{8} - \frac{02}{10} - \frac{00}{14} - \frac{08}{18} - \frac{08}{31} - \frac{05}{33}$$

LABORE ROAD SURVEY CROSS SECTION

Station		Elev	L	±	R
139+00	4.3	37.9			
140+00	5.1	37.1			
			R/L		
			WM	5-1-23	
			RW		
			JC		
141+00	5.5	36.7			
142+00	6.0	36.2			
143+00	7.0	35.2			
144+00	3.2	33.8			
145+00	4.1	33.1			
146+00	4.2	32.9			
147+00	4.6	32.5			
148+00	4.9	32.2			
149+00	6.3	30.8			
150+00	7.1	30.0			

Sandy Loam

Sandy Loam
Sandy Loam Subgrade
Gravel Surface

$$-\frac{2.9}{33} - \frac{1.8}{15} - \frac{0.4}{10} - \frac{0.4}{6} - \frac{0.1}{9} - \frac{+0.3}{12} - \frac{0.9}{15} - \frac{0.9}{18} + \frac{0.2}{20} + \frac{0.8}{33}$$

$$-\frac{3.8}{33} - \frac{2.8}{16} - \frac{0.7}{11} - \frac{0.5}{8} - \frac{0.0}{8} - \frac{0.1}{11} - \frac{1.2}{13} - \frac{1.3}{17} - \frac{0.4}{19} + \frac{0.0}{33}$$

$$-\frac{3.1}{33} - \frac{2.3}{15} - \frac{0.6}{11} - \frac{0.5}{8} - \frac{0.3}{7} - \frac{0.2}{11} - \frac{1.5}{12} - \frac{1.5}{18} - \frac{0.5}{19} - \frac{0.2}{33}$$

$$-\frac{2.2}{33} - \frac{1.6}{15} - \frac{0.5}{10} - \frac{0.3}{9} - \frac{0.3}{7} - \frac{0.2}{10} - \frac{1.6}{17} - \frac{1.6}{17} - \frac{0.0}{19} + \frac{0.5}{33}$$

$$-\frac{1.5}{33} - \frac{1.0}{19} - \frac{1.4}{16} - \frac{1.4}{14} - \frac{0.4}{11} - \frac{0.3}{8} - \frac{0.0}{7} - \frac{0.1}{10} - \frac{1.0}{13} - \frac{0.8}{16} + \frac{0.5}{19} + \frac{0.7}{28} + \frac{1.0}{33}$$

$$-\frac{2.1}{33} - \frac{1.9}{17} - \frac{0.6}{11} - \frac{0.5}{9} - \frac{0.0}{7} - \frac{0.2}{11} - \frac{1.1}{13} - \frac{0.8}{23} - \frac{0.1}{27} - \frac{0.4}{33}$$

$$-\frac{1.8}{23} - \frac{1.7}{17} - \frac{0.4}{12} - \frac{0.3}{8} - \frac{0.1}{8} - \frac{0.3}{12} - \frac{0.6}{15} - \frac{0.5}{20} - \frac{0.1}{21} + \frac{0.5}{26} + \frac{0.7}{33}$$

$$-\frac{2.2}{33} - \frac{1.8}{16} - \frac{0.9}{12} - \frac{0.5}{10} - \frac{0.2}{8} - \frac{0.3}{11} - \frac{0.9}{13} - \frac{0.4}{15} - \frac{0.5}{17} - \frac{0.5}{19} + \frac{0.4}{21} + \frac{0.4}{33}$$

$$\frac{2.4}{33} - \frac{1.5}{15} - \frac{0.6}{12} - \frac{0.4}{9} - \frac{0.1}{8} - \frac{0.3}{11} - \frac{1.0}{13} - \frac{1.0}{15} - \frac{0.0}{20} + \frac{1.0}{28} + \frac{1.2}{33}$$

$$-\frac{1.9}{33} - \frac{1.4}{15} - \frac{0.6}{11} - \frac{0.5}{9} - \frac{0.4}{8} - \frac{0.3}{11} - \frac{1.1}{14} - \frac{1.1}{16} + \frac{1.0}{23} + \frac{1.5}{29} + \frac{1.5}{33}$$

$$-\frac{3.1}{33} - \frac{3.7}{27} - \frac{2.4}{16} - \frac{0.6}{11} - \frac{0.4}{9} - \frac{0.2}{8} - \frac{0.3}{9} - \frac{0.7}{12} - \frac{0.7}{14} - \frac{0.1}{17} + \frac{1.0}{22} + \frac{1.8}{33}$$

$$-\frac{1.2}{33} - \frac{0.2}{17} - \frac{0.9}{15} - \frac{0.4}{13} - \frac{0.2}{11} - \frac{0.2}{9} - \frac{0.4}{9} - \frac{0.5}{12} - \frac{0.8}{14} - \frac{0.8}{15} + \frac{1.0}{17} + \frac{2.5}{22} + \frac{3.0}{33}$$

LABORE ROAD SURVEY CROSS SECTION

L & R

Station

Elev

151+00 4.1 228.5

+31 4.5 228.1

R/L
WM
RW
J.C.

5-1-23

+40 4.6 227.9

+60 5.2 227.4

152+00 6.2 226.4

+32.65 2.0 225.5

153+00 6.61 225.9

154+00 6.5 225.7

155+00 3.0 226.1

156+00 3.2 225.8

157+00 4.3 224.3

+30 4.9 224.0

158+00 6.2 222.7

159+083 6.6 22.4

Sandy Loam Subgrade Gravel Surface

Sandy Loam

Sandy Loam

L

Sheet 15 of 16

Q

R

$$+\frac{0.1}{33} + \frac{0.8}{27} - \frac{0.1}{20} - \frac{1.1}{16} - \frac{1.1}{14} - \frac{0.3}{11} - \frac{0.2}{8} - \frac{0.0}{10} - \frac{0.1}{12} - \frac{0.5}{14} - \frac{0.5}{16} + \frac{1.2}{18} + \frac{3.4}{23} + \frac{3.8}{33}$$

$$+ \frac{0.1}{8} + \frac{0.3}{14} - \frac{0.7}{18} - \frac{0.7}{20} + \frac{1.0}{21} + \frac{3.4}{27} + \frac{3.8}{33}$$

$$+ \frac{0.2}{33} + \frac{0.8}{18} - \frac{1.4}{14} - \frac{1.4}{12} - \frac{0.5}{10} - \frac{0.3}{7} + \frac{0.2}{9} + \frac{0.6}{24} + \frac{0.1}{29} + \frac{0.1}{32} + \frac{0.6}{33}$$

$$+ \frac{0.6}{27} + \frac{0.6}{27} + \frac{1.1}{18} - \frac{1.3}{14} - \frac{1.3}{11} - \frac{0.2}{10} - \frac{0.2}{7} + \frac{1.2}{33}$$

$$+ \frac{0.7}{33} + \frac{2.0}{20} - \frac{1.2}{16} - \frac{1.2}{13} - \frac{0.4}{11} - \frac{0.3}{7} + \frac{0.2}{11} + \frac{0.4}{14} - \frac{0.5}{20} - \frac{0.5}{22} - \frac{0.0}{25} + \frac{2.2}{33}$$

$$- \frac{2.2}{33} - \frac{1.4}{24} - \frac{0.1}{17} - \frac{0.5}{14} - \frac{1.2}{33}$$

Q of Co F

$$- \frac{1.3}{33} - \frac{0.8}{24} - \frac{0.6}{12} - \frac{0.2}{6} - \frac{0.7}{9} - \frac{0.7}{11} + \frac{0.5}{12} + \frac{0.9}{21} + \frac{1.3}{33}$$

$$- \frac{2.2}{33} - \frac{0.8}{19} - \frac{1.4}{18} - \frac{1.4}{16} - \frac{0.5}{13} - \frac{0.3}{10} - \frac{0.1}{6} - \frac{0.2}{9} - \frac{1.1}{18} - \frac{1.1}{13} + \frac{0.1}{15} + \frac{0.2}{33}$$

$$- \frac{2.1}{33} - \frac{1.4}{27} - \frac{0.7}{18} - \frac{1.7}{16} - \frac{1.7}{15} - \frac{0.6}{12} - \frac{0.3}{9} - \frac{0.0}{5} - \frac{0.3}{10} - \frac{0.6}{13} - \frac{0.6}{15} - \frac{0.0}{16} - \frac{0.4}{33}$$

$$- \frac{0.7}{33} + \frac{0.2}{28} + \frac{0.6}{17} - \frac{1.0}{15} - \frac{1.0}{13} - \frac{0.6}{10} - \frac{0.1}{8} - \frac{0.0}{12} - \frac{0.6}{14} - \frac{0.6}{16} + \frac{1.0}{17} + \frac{0.8}{33}$$

$$- \frac{2.4}{33} + \frac{0.6}{28} + \frac{1.0}{20} + \frac{0.3}{17} - \frac{0.9}{15} - \frac{0.9}{13} - \frac{0.3}{11} - \frac{0.4}{9} - \frac{0.2}{11} - \frac{0.6}{12} - \frac{0.6}{14} + \frac{1.3}{17} + \frac{1.8}{33}$$

Q of Cent Rd

$$- \frac{1.7}{33} - \frac{0.5}{20} - \frac{0.0}{17} - \frac{1.2}{16} - \frac{1.2}{14} - \frac{0.5}{13} - \frac{0.5}{11} - \frac{0.2}{10} - \frac{0.7}{13} - \frac{0.7}{15} + \frac{1.4}{17} + \frac{1.5}{33}$$

Q of Cent Rd

$$- \frac{0.8}{33} - \frac{0.8}{30} - \frac{0.5}{14} - \frac{0.4}{7} - \frac{0.1}{7} - \frac{0.2}{11} - \frac{0.3}{12} - \frac{0.3}{14} + \frac{0.8}{16} + \frac{2.2}{25} + \frac{1.8}{33}$$

$$+ \frac{3.2}{33} + \frac{1.9}{27} + \frac{0.6}{18} - \frac{1.1}{16} - \frac{1.1}{14} - \frac{0.4}{12} - \frac{0.5}{8} - \frac{0.3}{10} - \frac{0.3}{13} - \frac{1.1}{16} - \frac{1.1}{18} + \frac{0.2}{22} + \frac{0.9}{33}$$

LABORE ROAD SURVEY

CULVERTS

2 Sheets

RIL
WM
RW
JC

224.2
12

228.1

227.1
16

From Left

Length 20'

L

E

R

Station

28+70

$$\frac{2070}{27}$$

218.8

$$\frac{2044}{27}$$

$$\frac{2041}{50}$$

12" Vitrified Pipe 12" Concrete Bulkhead on Left

Flows Right Length 51'

96+85

16" Corrugated Pipe

$$\frac{218.8}{21}$$

223.4

$$\frac{218.5}{14}$$

$$\frac{218.1}{50}$$

Flows Right Length 35'

100+00

16" Corrugated Pipe

$$\frac{219.7}{24}$$

222.8

$$\frac{219.4}{15}$$

$$\frac{219.1}{50}$$

Flows Right Length 39'

105+64

Corrugated Pipe

$$\frac{221.2}{50}$$

$$\frac{222.8}{28}$$

224.3

$$\frac{223.4}{12}$$

Flows Left Length 30'

115+18

8" Vitrified Pipe

$$\frac{229.3}{50}$$

$$\frac{229.8}{12}$$

231.9

$$\frac{229.9}{11}$$

Flows Left Length 23'

105+47

12" Vitrified Pipe

$$\frac{229.3}{50}$$

$$\frac{229.8}{12}$$

231.9

21

50

Flows Left Length 37'

105+11

12" Vitrified Pipe

$$\frac{229.3}{50}$$

$$\frac{229.8}{12}$$

231.9

$$\frac{229.9}{11}$$

50

LABORE ROAD SURVEY

CULVERTS

1 - 13 - 0 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

L

Q

R

Station

151+31

$$\frac{226.8}{12}$$

228.7

$$\frac{227.1}{16}$$

12" Corrugated Pipe

Flows Left Length 30'

152+27

6" Vitrified Pipe

$$\frac{222.3}{50} \quad \frac{222.8}{31} \quad 225.7$$

$$\frac{223.5}{16}$$

Flows Left Length 37'

152+41

$$\frac{222.5}{50} \quad \frac{222.6}{26} \quad 225.6$$

$$\frac{222.7}{11}$$

Flows Left Length 37'