

130

BIBLE BOOK

360

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

PLEASE RETURN TO
GEAUGA COUNTY ENGINEER

	0	.1	.2	.3	.4	.5	.6	.8	.9		
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tables see end of book.

Frams Cor. North Rd. T.H. 130

Parkman Twp.
Middlefield Twp. Page 1

TROY-PARKMAN CENTER

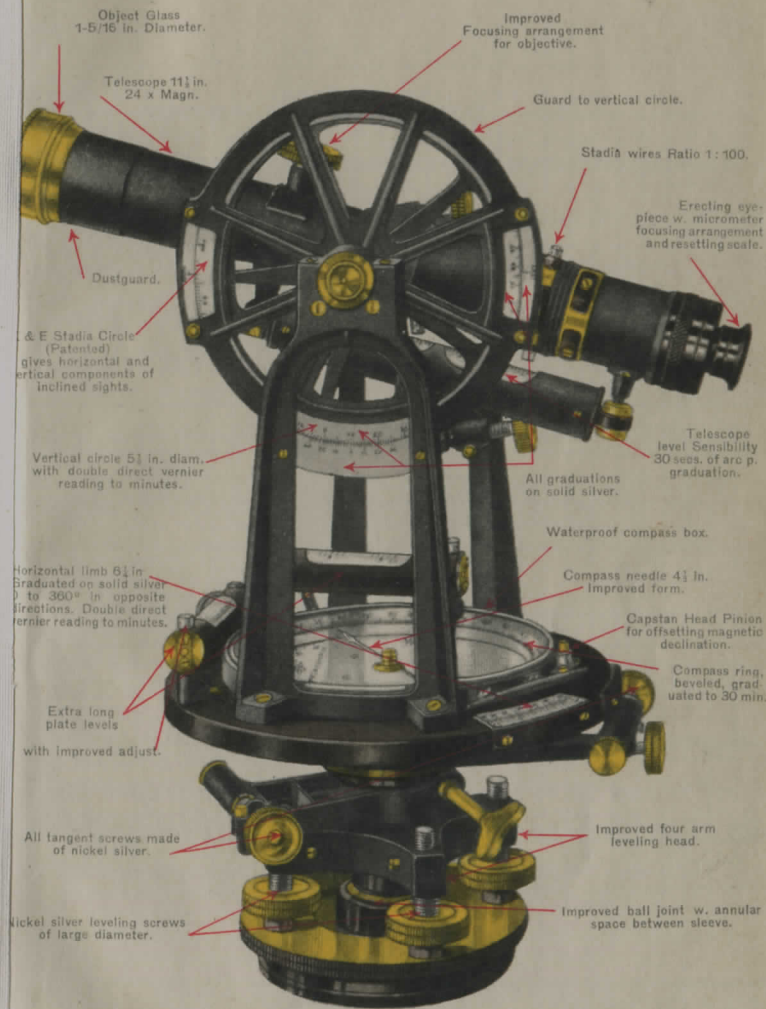
NASH RD T.H. 207
Frams Cor's. easterly Pg. 63

SHED RD T.H. 126

Pg. 68

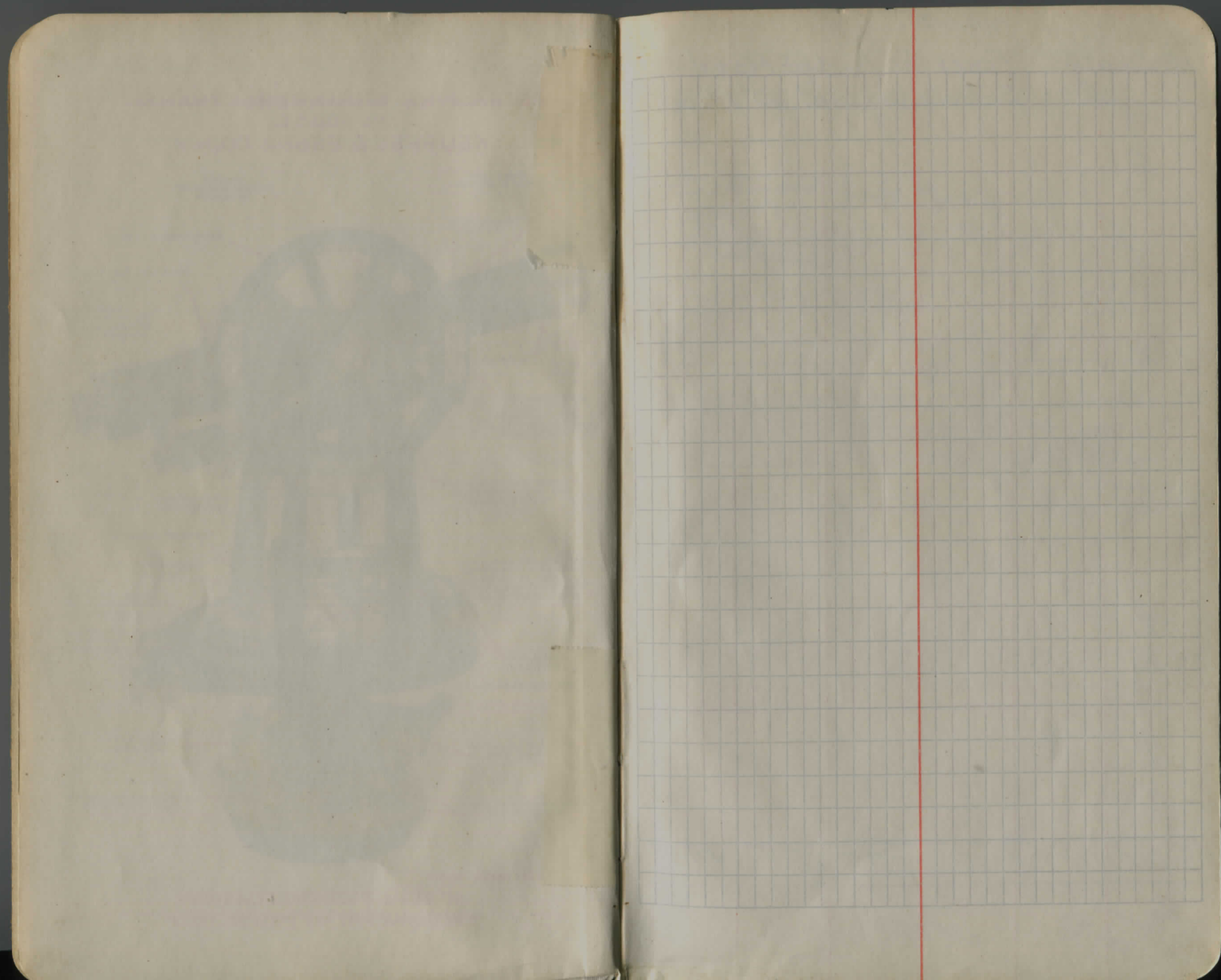
130

EXTRA FINE ENGINEERS' TRANSIT
No. 5060 S
KEUFFEL & ESSER CO., N.Y.



ALSO MADE WITH

INTERNAL FOCUSING TELESCOPE
PRACTICALLY DUST AND MOISTURE PROOF.



T.H. #130

Location Frams Cor. North Road

Note: Sidestakes set 25' Lt. or Rst.

6

5

4

3

2

1

Sta 0+00 Beginning of Imp

Pipe set

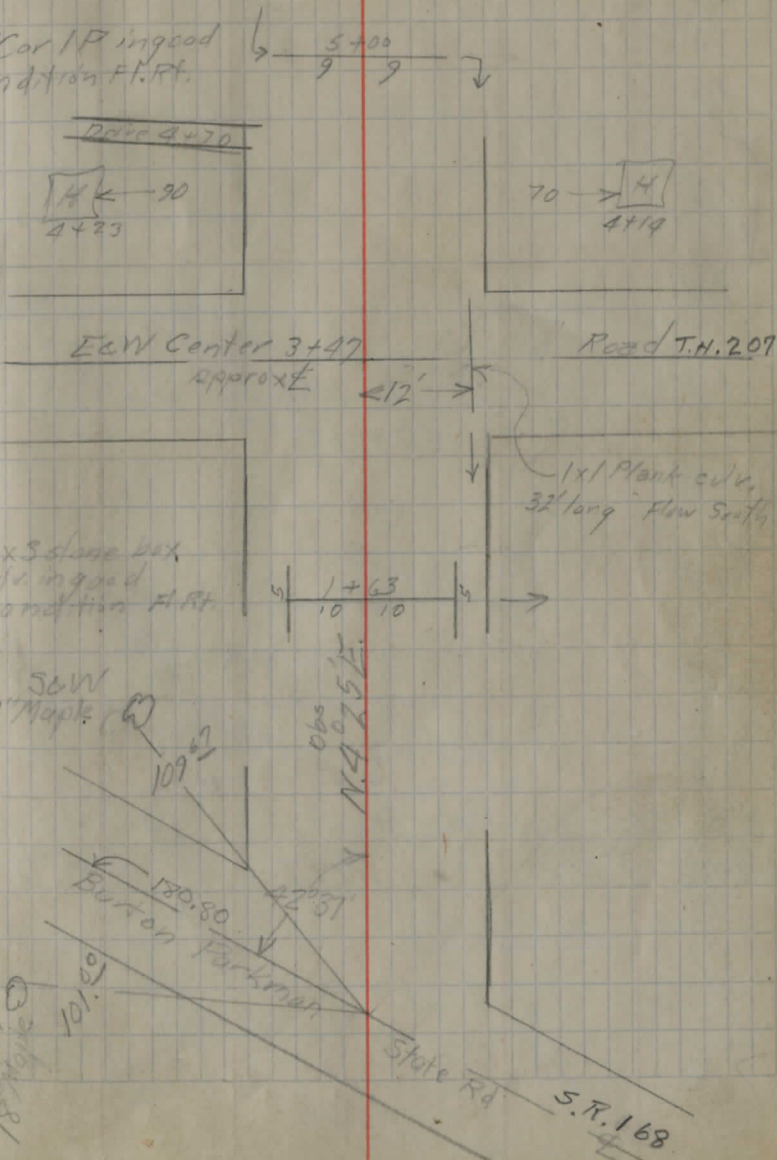
Restated 5/31/35

6/18/33

Ridley
Merritt
Goodrich

Parkman Trup

8" Cor 17' ingood
condition F.R.



56W
189 Maple

56W
12' Maple (G)

180.80
Burton Parkman

State Rd
S.R. 168

18

17

16

15

14

13

12

11

10

9

Sta 8+00

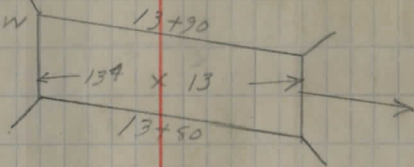
POT

Iron
Set

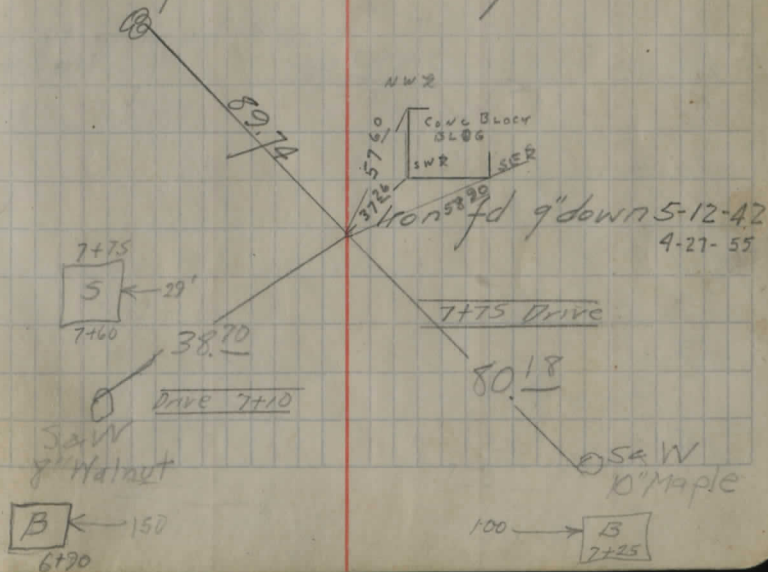
7

6

7' x 4' Conc. Slab
 Top Culv. 20° skew
 Good condition
 overall length 28.2



B.M. spk. E root 22" Map



30

29

28

27

Sta 26+00

POT

Pipe
Set

25

24

23

22

21

20

19

18

18" Wch.
S 2 W
10" W. Cherry 25⁵⁵

24" Wch
S 2 W
Twin 10" W Cherry 45⁴³

12" Cor IP good
Condition.
x 21+15

21+97
7 9 →

33.5 T
I.P. fd 5-12-42 9'
± 4' W of 427-53 down
trav. E Fence row

37.5 T
75 → H
20+10
Drive
18+67 x

42

41

40

39

38

37

36

35

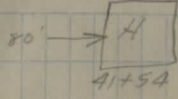
34

33

32

31

30



Section Line 39+22

~~39+22~~

31 T

12" Cor IP in good condition

$$\frac{32+13}{10 \quad 8}$$
 34' T

54

53

Sta 52+45^D PI Def $40^{\circ}13'$ ^{RIPD} set

52

51

50

49

48

47

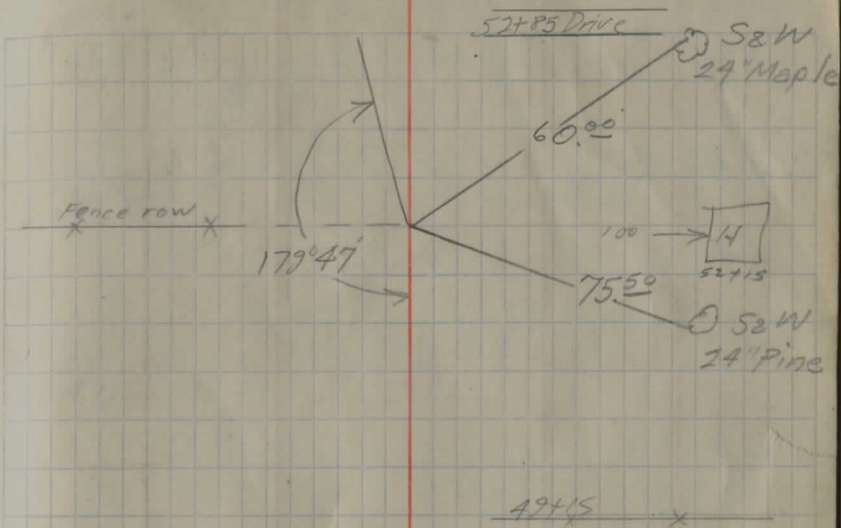
46

45

44

43

42



66

Sta 65+00

POT

Iron
set

64

63

62

61

60

59

58

57

56

55

54

S2W
8" Maple $\overline{30.27}$

S2W $\overline{21.15}$
twin 8" Maples

67+85 x

12" CIP good
condition

$\frac{63+06}{7' 9"} \rightarrow$

78

77

76

75

74

73

72

71

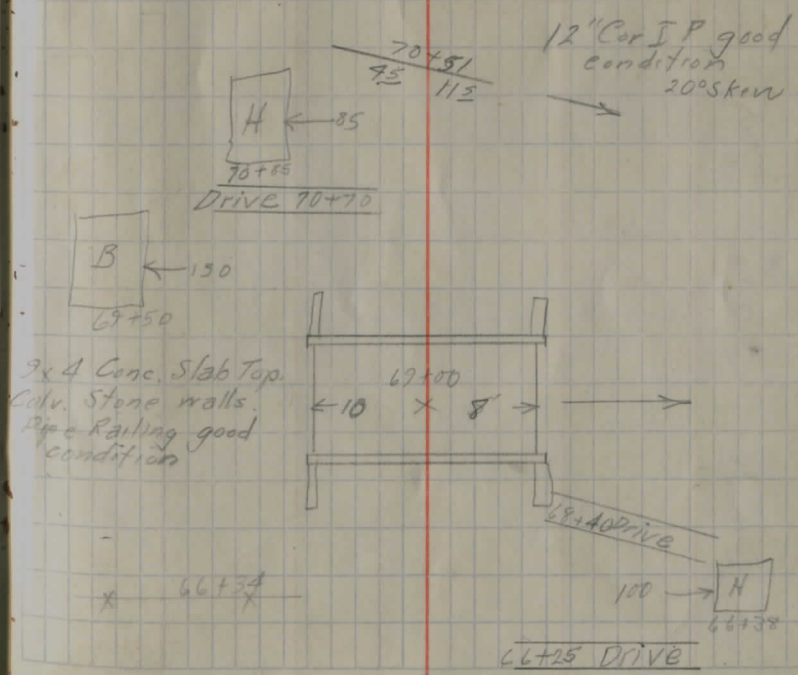
70

69

68

67

66



90

89

Sta 88 + 84.30 P.I. Def. Rt. 0°15' Iron Set

88

87

86

85

84

83

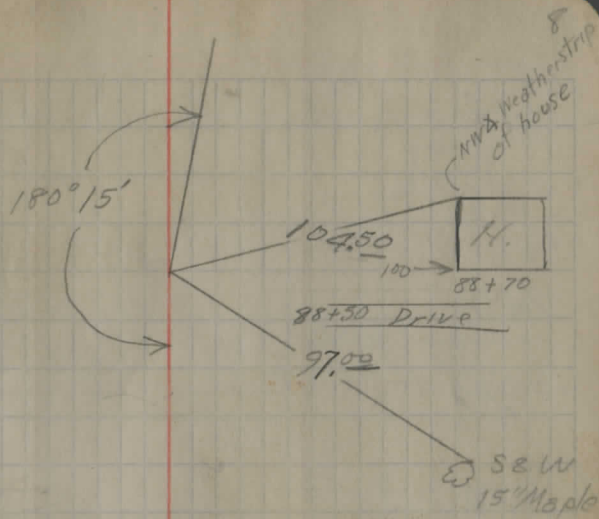
82

81

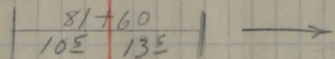
80

79

78



3 x 3 Conc. Slab.
Top. Cntr. good
condition.



80+60

80+60

102

101

100

99

98

97

96

95

94

93

92

91

90

$$\begin{array}{r} \boxed{B} \leftarrow 100 \\ 101 + 75 \end{array}$$

$$\begin{array}{r} 100 \rightarrow \boxed{B} \\ 100 + 30 \end{array}$$

$$\begin{array}{r} 99 + 60 \\ \hline \end{array} \quad \times$$

$$\begin{array}{r} \times \quad 93 + 50 \\ \hline \end{array}$$

114
Sta 113+54⁸⁰ POT.

113

112

111

110

109

108

Sta 107+52²⁵ POT.

107

106

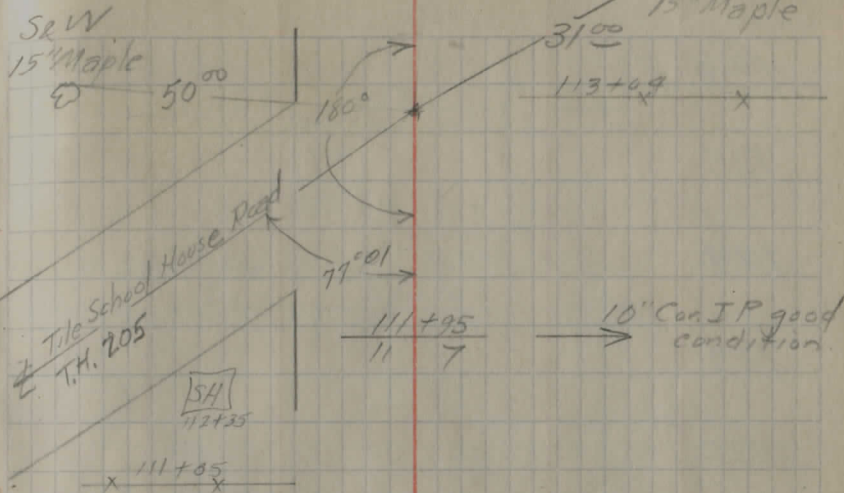
105

104

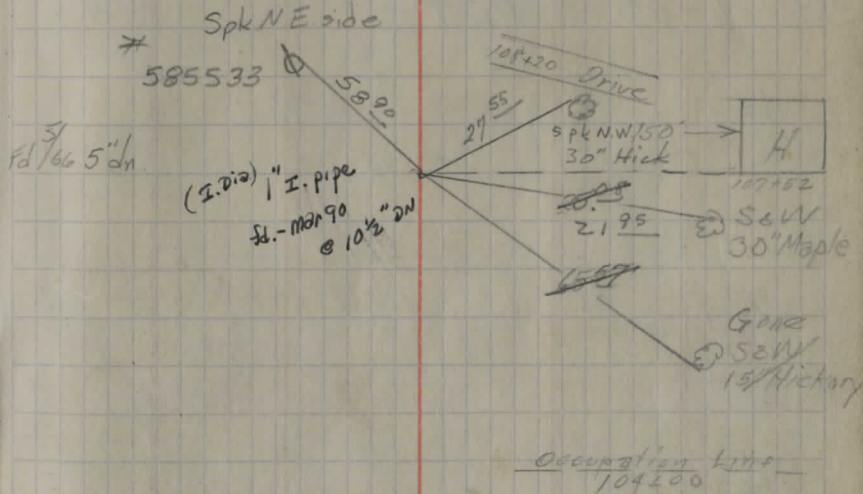
103

102

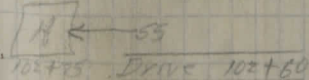
Iron
Elev 10



Iron
Set



10" Cor. I.P. fair
condition 20" Skov



126

125

124

123

122

Sta 121+00

POT

Spike Set

120

119

118

117

116

115

114

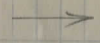
2x3 Stone Box
Culv. Conc. extensions

125+53
14 14



5x4 Stone Box
Culv. Conc. extensions

123+24
21 21



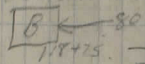
x 121+05
52W @ 21.50
24" Ash

38.07

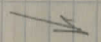
Point 5/6

BM spike
18" Maple

10" Cor IP fair
condition, skew 20°

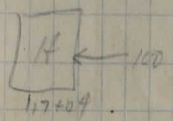
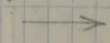


118+45
7 11



3x1 Stone Box
Culv. fair condition

117+15
13 8



139

138

137

136

135

134

133

Sta 132 + 24⁴⁸

POT

Iron
Set

132

131

130

129

128

Sta 127 + 51⁸⁵

POT

Spike
Set

127

10" Cor IP good
condition

$$\frac{139+23}{27} \rightarrow$$

12

$$\frac{138+48}{x}$$

$$\frac{133+12}{x}$$

Game 5/66

25.41

Tackled
Hub

Fence row

38.50

52W
12" Maple

151

150

149

148

Sta 147+79.01

147

146

145

Sta 144+00 PI Def Lt 3°21'

Spike Set

143

curve data

$\Delta = 3^{\circ}21'$
 $D = 20$
 $T = 83.80$
 $E = 1.2'$
 $L = 167.50$

142

141

Sta 140+57⁸² P.O.T.

Iron Set

140

139

2.79 miles Parkman
5280 | 74779
 1056
 4219
 3996
 5230

Pipe for 5/8" 12" dn
POT set
1966 ref 19 69
Twp Line

10" CIP good condition

151+12
10 8

11 ← 35
148+70

Drive 142+43

148+08
145 35

12" CIP & Cor IP
Poor condition
10° Skew

152+39
345

90° 051

bolt set 4" dn
Middlefield
Parkman

Twp
Twp. T.H. #126

10" Cor IP fair condition
49.58

177-15
147+63

BM spike
10" Maple

S&W
12" W Cherry

10" Cor IP good condition

144+63
12 4

10" Cor IP good condition

147+24
14 4

S&W
18" Maple

32.72

Spk W side
14" pig Hick

Drive 142+60

141+49
12 4

12" Cor IP
Good condition

S&W
12" Maple

55.73

S&W
12" Maple

132+58

5365

163

162

Sta 161+00

POT

160

159

158

157

156

155

154

153

152

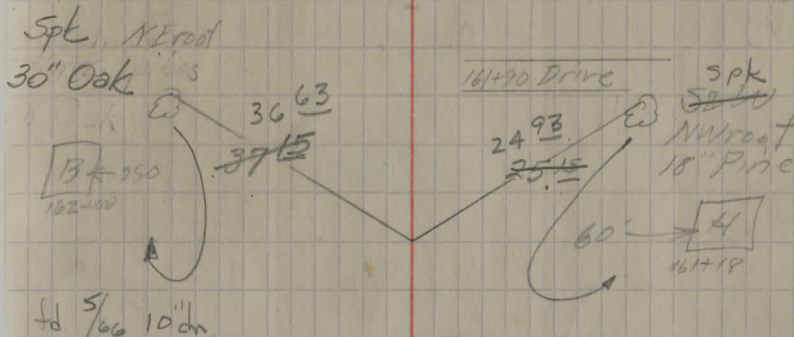
151

Pipe
set
Fd Sept '51
11" under

$\frac{163+20}{32} = 12\frac{1}{2}$

12" CIP
Good condition
skew 20°

14



~~155+00~~

12" CIP & CIP
good condition

$\frac{154+25}{12} = 12\frac{5}{8}$

~~153+12~~

175

174

173

172

171

170

169

168

167

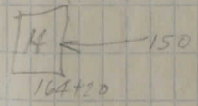
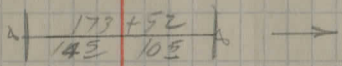
166

165

164

163

24" CIP
Good condition



Drive 163 + 75

187

186

185

184

183

182

181

180

179

178

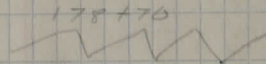
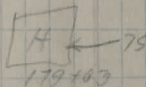
177

176

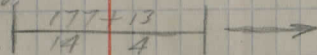
175

x 182+87

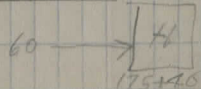
Drive 179+75



9 x 3 Slab Top Culvert
 Conc slab stone
 walls Pipe rail



175+80 Drive



199

198

197

196

195

194

193

192

191

190

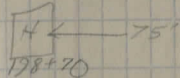
189

Sta 188+06 ^{el} PI Def Rt 0°20' Pipe 56'

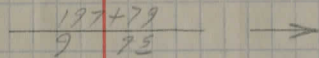
188

187

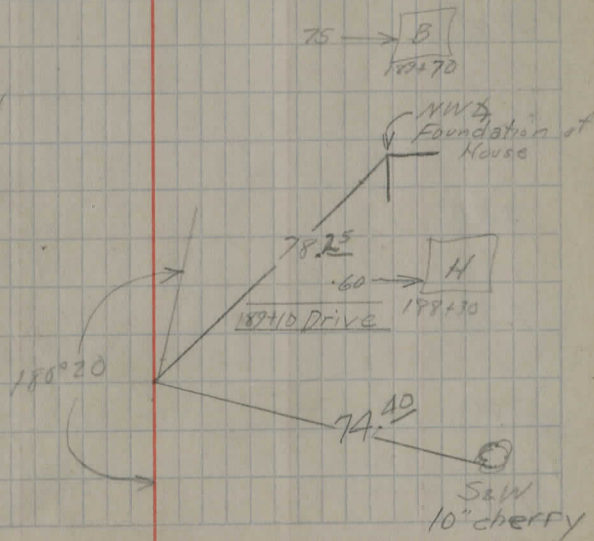
188+54 PL



16" CID good condition



occ. Line 199+60



211

210

209

208

207

206

205

204

203

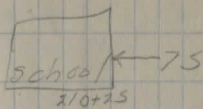
202

201

200

199

x 211/12



x 207+72



208+60 Drive

Drive 200+06

223

222

221

220

219

218

217

216

215

214

213

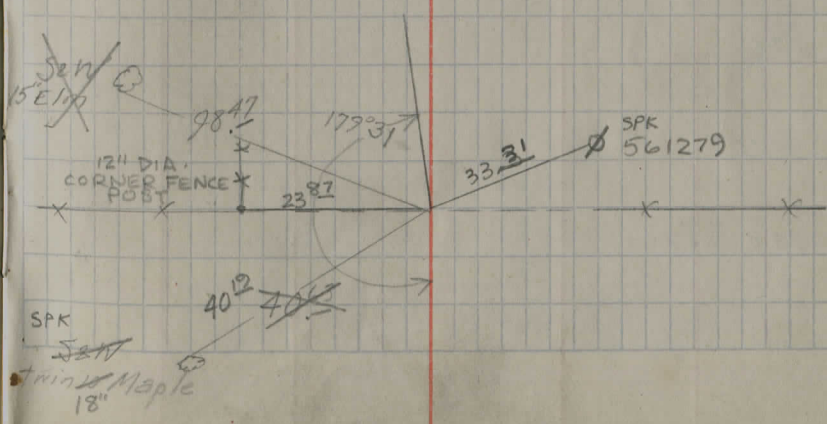
Sta 212+83.62 PI Def Lt. 0°29' Pipe set

212

211

14" CIP good condition

222+59
6 12



Sta 235 +00

POT

Spike
Set

234

233

232

Sta 231 + 94²⁵

POT

Pipe
Found

231

230

229

228

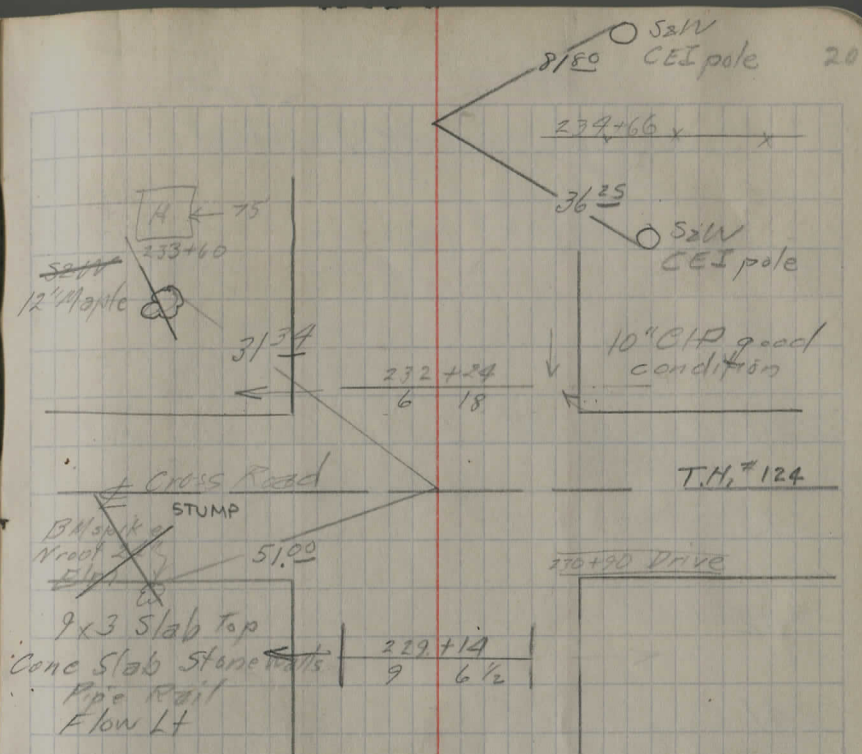
227

226

225

224

223



SEE NEW REF. PG. 23

4.61 miles total

5284 $\begin{array}{r} 29361 \\ 21120 \\ \hline 32918 \\ 31680 \\ \hline 7300 \end{array}$

Parkman - 279 miles.
Middlefield - 182 miles.

Sta 243 + 66.09 End of Project Pipe Set

243

242

241

240

239

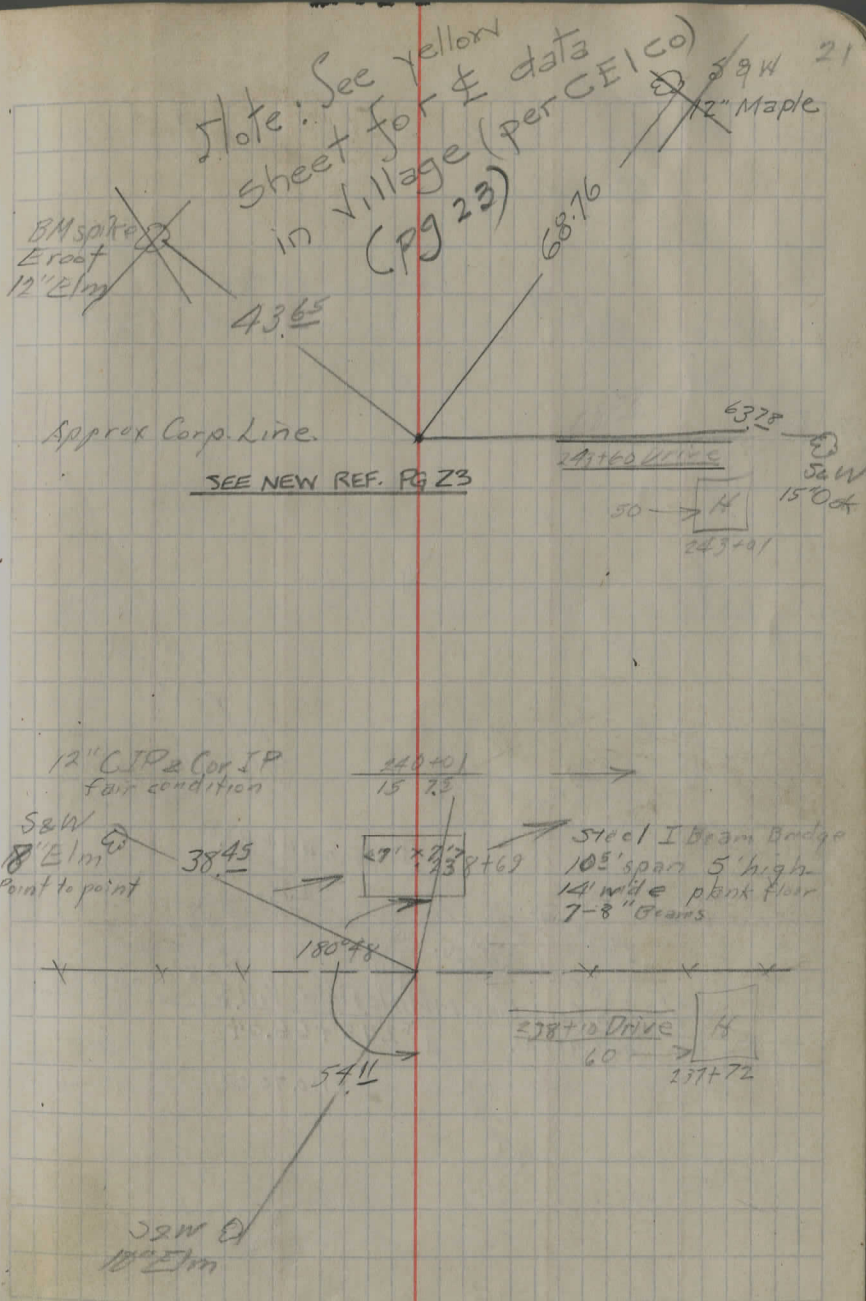
Sta 238 + 18.85 PI Def. Rt. 0°48' Pipe Set

238

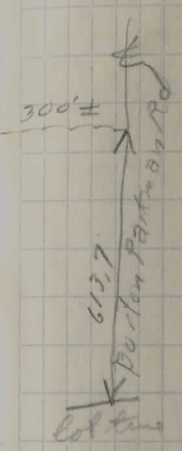
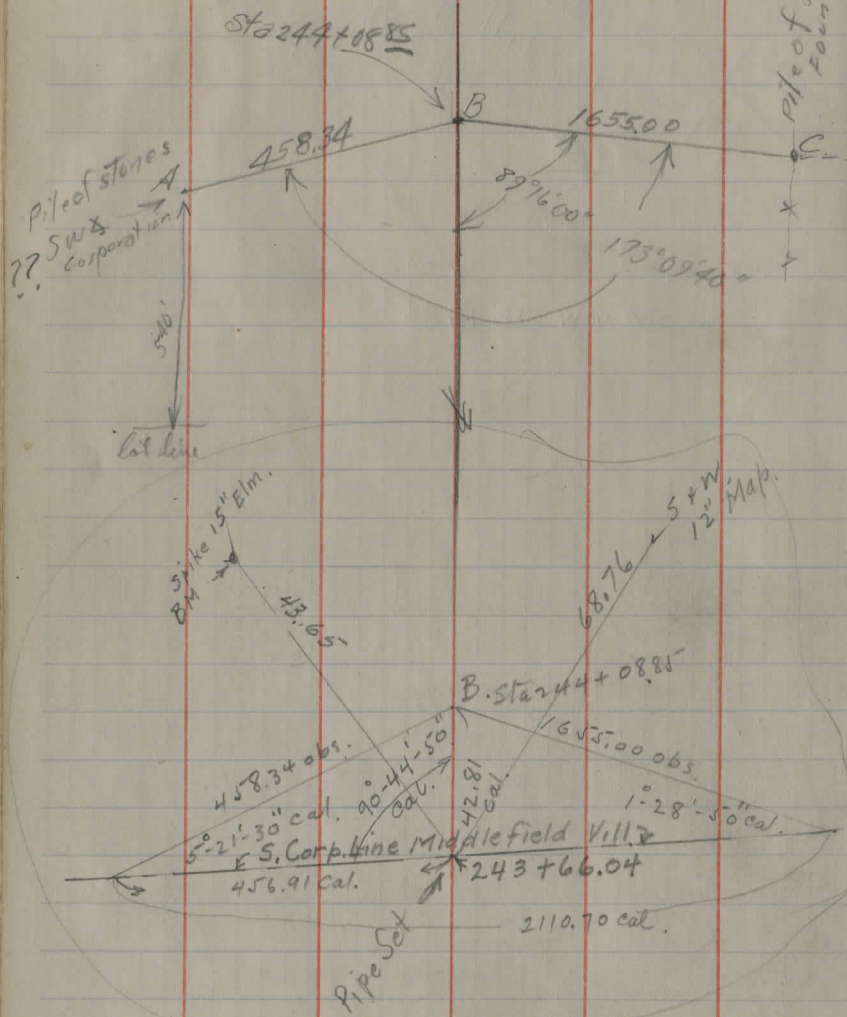
237

236

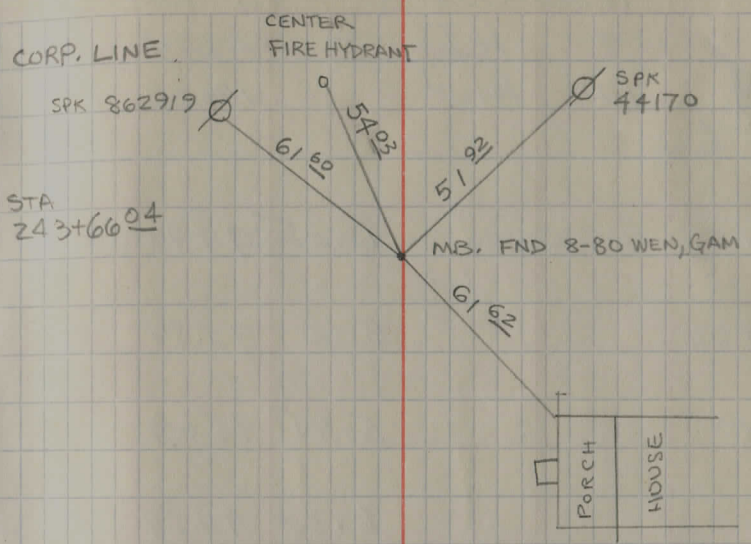
235



Random to Locate Village Line

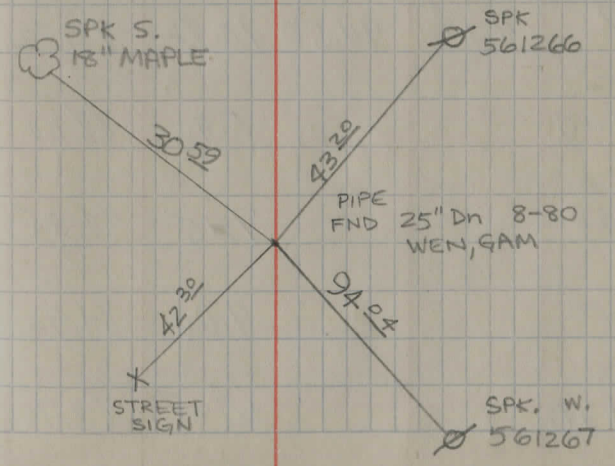


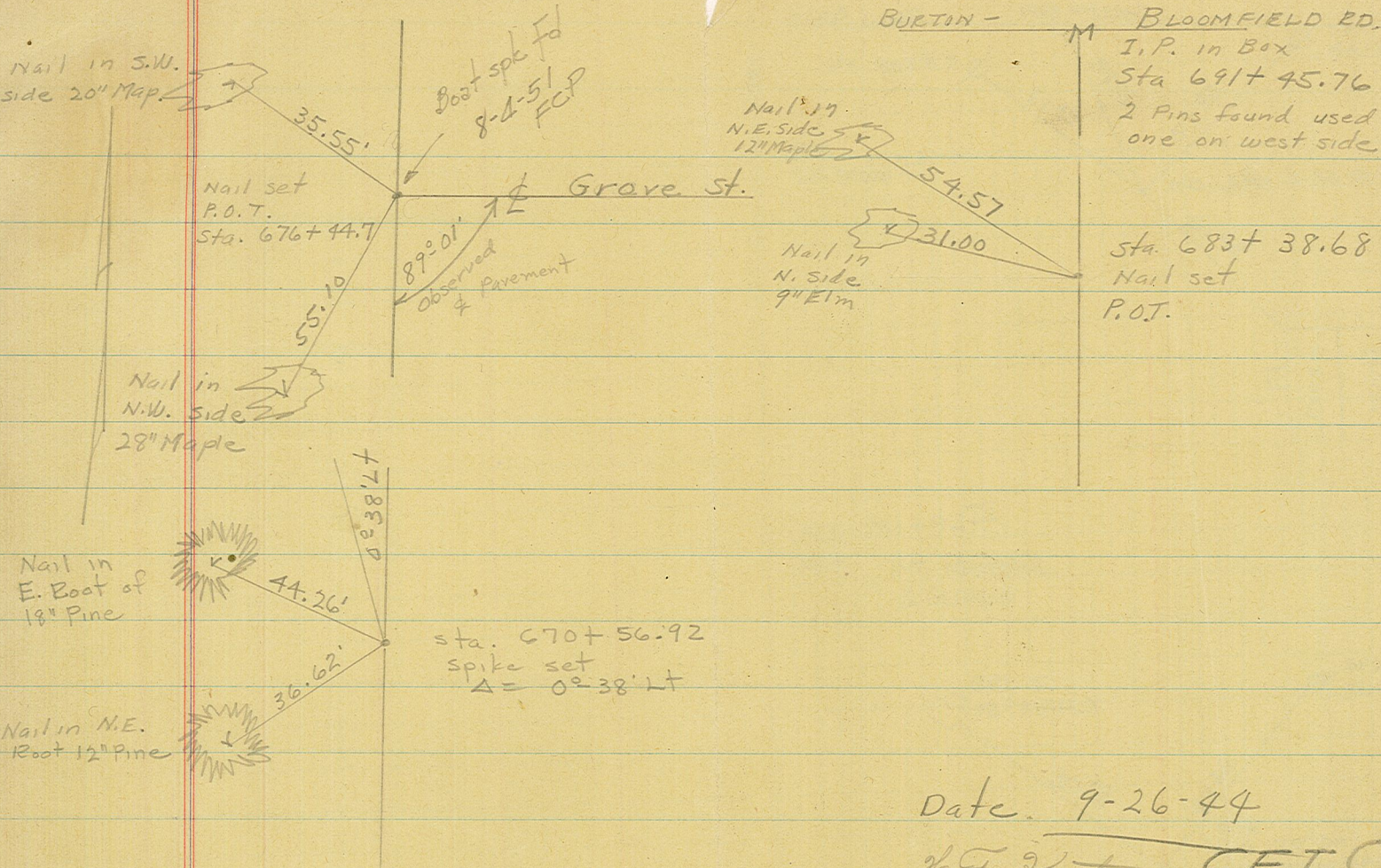
2110.
2456
1654
3
19



STA 231+94 75

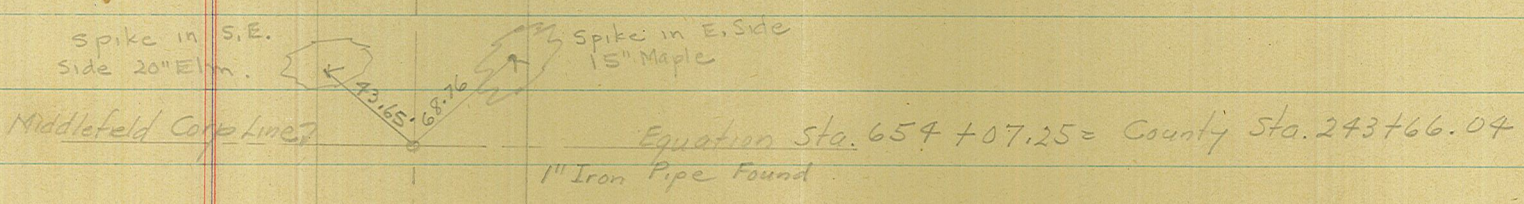
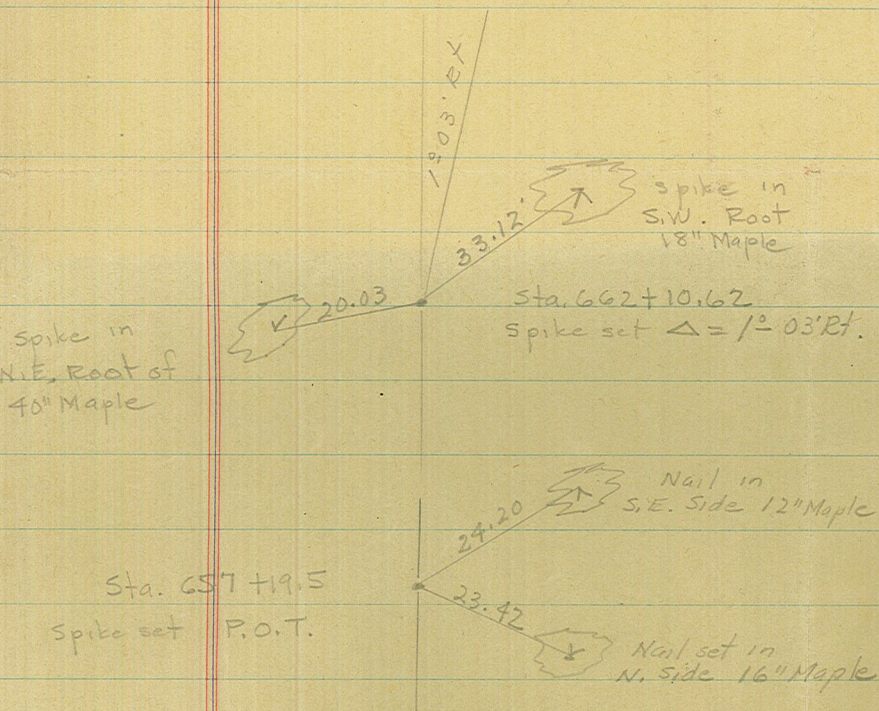
POT. INT. NEWCOMB & GEORGIA





Date. 9-26-44

H. F. Feating CEI Co.



NEWCOMB RD DITCH

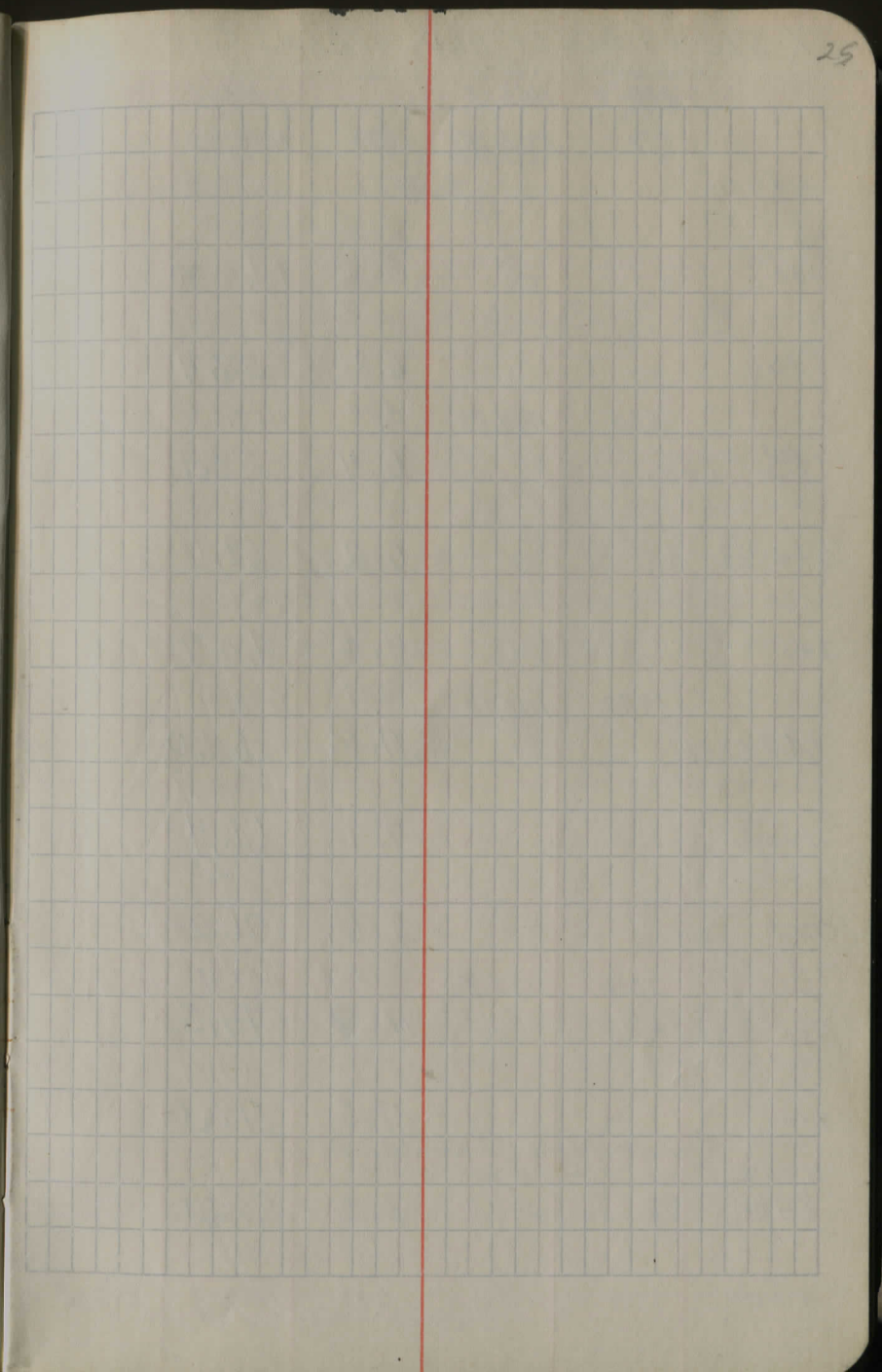
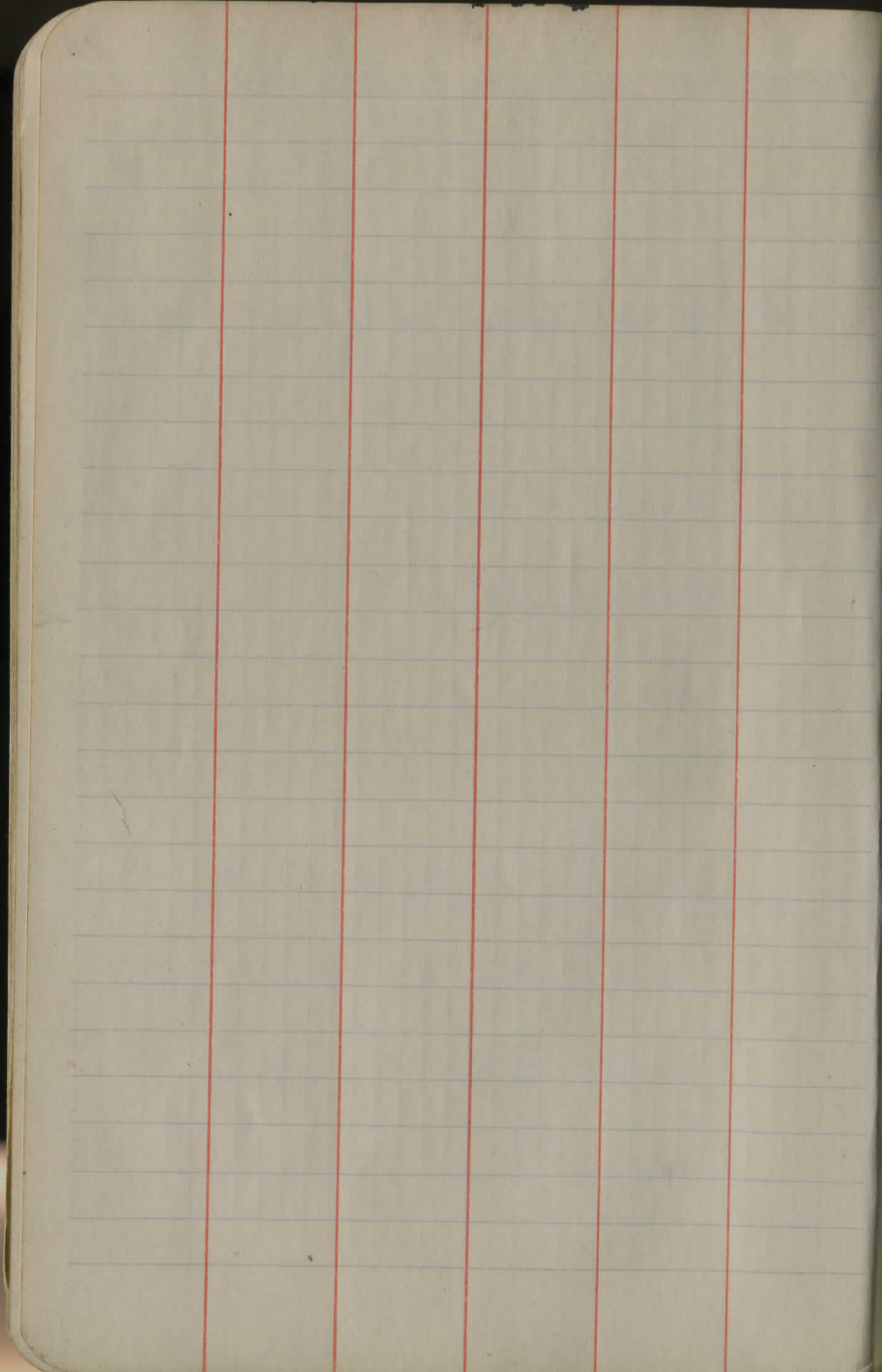
	+	HI	-	ELEV
B.M. N.E. Cor CONC SLAB TOP	1.14	101.14		100.00
0+00			6.35	94.79
1+00			5.60	95.54
2+00			5.45	95.69
3+00			6.55	94.59
4+00			8.70	92.44
5+00			11.55	89.59
T.P	4.18	94.50	10.82	90.32
6+00			5.90	88.60
7+00			7.15	87.35
8+00			9.60	84.90
8+70			10.80	83.70

GOING EAST

4/11/59

29

DITCH @ E. EDGE OF RD



X-SEC MIDDLEFIELD - FRAMS COR. RD

	3.72	1163.18	-	1159.46	
	8.72	1165.15	6.75	1156.43	
0+00			4.53	1160.62	
+50			5.2	60.00	
1+0			6.8	58.4	
	5.20	1164.83	5.38	1159.63	chk Culv
1+63			6.4	58.4	
2+0			6.2	58.6	
3+0			4.0	60.8	
	10.92	1173.78	1.97	1162.86	
4+7			9.8	64.0	
4+0			7.4	66.4	
5+0			2.6	71.2	
	12.12	1185.50	0.40	1173.38	
6+0			11.2	74.3	
7+0			7.5	78.0	
	7+49 = 1" water pipe 125' under gr.				
	7+64 = 1" " " 100 "				
8+0			3.3	82.2	
9+0			2.33	1183.17	1183.78

T.H. #130

6-1-35 26

BN #1

Graber
Rossbeck
Hill.

	100 260 Pave. 1162.6					Pavement. 4.53 1160.6					100% Pave 7.40 Pave 1157.8				
Top. Pr. Pave	25	14	8	5	2	5.2	5.57	8	11	25	17	23	36	36	
	72	71	75	70	64	62	66	70	73	72	74	80	67	66	
	25	18	8	5	4	40	43	51	35	32	25	53	79	72	
Culv.	60 75					91 100 FL 1154.8					8 92 FL 1155.6				
	25	10	2	8	5	62	66	70	73	72	74	80	67	66	
	72	71	75	70	64	62	66	70	73	72	74	80	67	66	
	25	18	8	5	4	40	43	51	35	32	25	53	79	72	
	16	25	50	43	40	43	51	35	32	32	25	53	79	72	
XR #1	100 89					25 85					98 98				
	25	13	7	6	8	74	77	75	79	70	67	74	80	67	
	62	74	74	77	75	79	70	67	67	70	67	74	80	67	
	25	14	11	9	8	26	27	32	24	21	25	32	24	21	
	11	17	32	25	26	27	32	24	21	21	25	32	24	21	
	25	20	14	12	8	11.2	11.3	11.7	11.3	10.9	11.2	11.3	10.9	10.9	
	100	102	113	121	112	11.2	11.3	11.7	11.3	10.9	11.2	11.3	10.9	10.9	
	25	12	10	7	7.5	7.5	7.8	6.4	5.8	5.8	5.8	6.4	5.8	5.8	
	42	50	60	75	75	7.5	7.8	6.4	5.8	5.8	5.8	6.4	5.8	5.8	
	25	19	15	11	7	3.3	3.7	4.1	3.2	3.4	3.5	3.7	4.1	3.5	
	19	17	24	42	36	3.3	3.7	4.1	3.2	3.4	3.5	3.7	4.1	3.5	

See pg 59 for B.M. checks

	0.48	1185.50			
9+0			4.8	80.70	
	1.48	1184.76		1183.28	
10+0			8.3	76.50	
	394	1175.99	12.71	1172.05	
11+0			5.2	70.80	
12+0					
	0.70	1165.97	10.72	1165.27	
12+0			4.8	61.2	
	4.13				
	4.03	1162.63 ⁷²	7.37	1158.60	1158.62
13+0			5.9	56.8	
13+85	Coln		6.0	56.7	
14+0			6.2	56.5	
15+0			5.2	57.5	
	10.89	1170.24 ³²	3.30	1159.33 ⁴³	
			8.9	61.4	
16+0					
	11.77	1180.21	1.78	1168.44	
17+0			9.5	70.7	
	8.80	1187.53 ^{.63}	1.48	1178.73 ⁸³	
				880	

2.5	16	14	12	8	4.8	5	7	11	20	25
31	3.6	4.7	6.3	5.3		5.1	5.9	4.4	4.8	5.0
BM # v										
25	18	13.5	9			4	7	10	25	
52	5.8	9.7	8.4	8.3		8.4	9.7	6.0	6.2	
						3.5				
						3.0				
25	18	12	8			6	9	12	18	25
16	20	7.3	5.4	5.2		5.4	6.6	3.1	2.4	2.8
		25	19				15	20	25	
		7.5	7.5	14.8	61.2		11.5	11.0	11.8	
		2	6				6	2		
		5.2	4.6	4.8			4.9	5.6		
on H ₂ O										
25	11	10	7			7	9	11	17	25
7.5	6.3	6.4	6.2	5.9		6.1	6.4	6.3	7.8	8.8
		50	14				14.5	200		
		10.4	FL 11.4	60			11.6 FL	12.2		
			11.51.3				11.51.1			
25		21	12			6	15	25		
100		10.0	6.4	6.2		6.3	7.5	8.5		
25	16	14	8			5-11	20	-25		
64	5.8	6.0	5.4	5.2		5.0	4.4			
25	18	15	12				13/59	21	25	
73	8.0	9.9	9.0	8.9		3/89	6/0.2	4.7	4.3	
25	19	15	13	10.5		9.5	3/94	5	6.13	21
4.9	5.6	9.0	10.4	9.5				10.0	9.340.34	3.6

63
1187.53

18+0 9.8 77.8

19+0 6.8 80.8

20+0 4.8 82.8

+50 VPI 3.7 83.9

21+0 4.0 83.6

152 1186.11 1186.13

157

1187.64

22+0 4.1 83.5

23+0 3.4 84.2

24+0 1.9 85.7

6.19

1192.73

110

1186.54

25+0 4.7 88.0

26+0 2.9 89.8

3.58

1196.31

000

1192.73

27+0 5.8 90.5

28+0 5.4 90.9

29 4.2 92.1

526

1196.95

462

1191.69

6-5-35

28

$\frac{25}{73}$ $\frac{14}{83}$ $\frac{10}{107}$ $\frac{7}{100}$ 98 $\frac{6}{100}$ $\frac{8}{108}$ $\frac{11-25}{89}$

$\frac{25}{66}$ $\frac{12}{75}$ $\frac{11}{84}$ $\frac{8}{73}$ 68 $\frac{7}{72}$ $\frac{25}{77}$ $\frac{11}{71}$ $\frac{25}{66}$

$\frac{25}{43}$ $\frac{12}{58}$ $\frac{10}{60}$ $\frac{7}{54}$ 48 $\frac{85}{54}$ $\frac{14}{49}$ $\frac{17-25}{42}$

$\frac{25}{28}$ $\frac{14}{35}$ $\frac{10}{46}$ $\frac{7}{41}$ 37 $\frac{7}{41}$ $\frac{9}{45}$ $\frac{11-25}{32}$

$\frac{25}{22}$ $\frac{12}{40}$ $\frac{10}{50}$ $\frac{6}{41}$ 40 $\frac{7}{44}$ $\frac{11}{50}$ $\frac{12}{46}$ $\frac{25}{53}$

BMI #3 21+40

$\frac{25}{30}$ $\frac{12}{44}$ $\frac{10}{49}$ $\frac{7}{43}$ 41 $\frac{9}{44}$ $\frac{11}{52}$ $\frac{13}{47}$ $\frac{25}{52}$

$\frac{25}{23}$ $\frac{11}{38}$ $\frac{9}{44}$ $\frac{7}{37}$ 34 $\frac{85}{35}$ $\frac{125}{44}$ $\frac{14}{40}$ $\frac{25}{42}$

$\frac{25}{00}$ $\frac{10}{12}$ $\frac{7}{27}$ $\frac{5}{21}$ 19 $\frac{10}{21}$ $\frac{14}{31}$ $\frac{15}{21}$ $\frac{25}{13}$

$\frac{25}{33}$ $\frac{95}{48}$ $\frac{8}{59}$ $\frac{4}{49}$ 47 $\frac{11}{52}$ $\frac{14}{59}$ $\frac{15.5}{50}$ $\frac{25}{49}$

$\frac{25}{23}$ $\frac{10}{32}$ $\frac{8}{45}$ $\frac{4}{31}$ 29 $\frac{105}{33}$ $\frac{14}{22}$ $\frac{16}{35}$ $\frac{25}{24}$

Spk Tel. P. S/a 27+00

$\frac{25}{24}$ $\frac{11}{62}$ $\frac{8}{71}$ $\frac{6}{61}$ 58 $\frac{7}{60}$ $\frac{125}{67}$ $\frac{14}{60}$ $\frac{25}{60}$

$\frac{25}{50}$ $\frac{11}{56}$ $\frac{9}{63}$ $\frac{6}{56}$ 54 $\frac{9}{56}$ $\frac{13}{64}$ $\frac{16}{57}$ $\frac{25}{59}$

$\frac{25}{17}$ $\frac{10}{55}$ $\frac{85}{46}$ 42 $\frac{8}{44}$ $\frac{12}{51}$ $\frac{16}{48}$ $\frac{25}{50}$

30+0	1196	1196.95	4.4	92.6
31+0			4.2	92.8
32+0			4.8	92.2
33+0			4.3	92.7
34+0	720	1200.20	3.95	1193.00
			7.0	1193.2
35+0			5.4	1194.8
36+0			3.6	1196.6
37			2.2	1198.0
	829	1206.14	2.35	1197.85
			5.48	1200.66
				1200.70
	5.48	1206.18		1200.70 <i>used</i>
38+0			6.5	1199.7
39+0			4.6	1201.6
40+0			2.2	1204.0
	943	1214.71	0.90	1205.28

$\frac{25}{37}$	$\frac{12}{37}$	$\frac{10}{51}$	$\frac{8}{48}$	4.4	$\frac{7}{46}$	$\frac{10-12}{53}$	$\frac{13}{44}$	$\frac{25}{43}$
$\frac{25}{28}$	$\frac{14}{46}$	$\frac{10.5-11.5}{52}$	$\frac{8}{45}$	4.2	$\frac{6}{47}$	$\frac{9-11}{56}$	$\frac{12}{51}$	$\frac{25}{64}$
$\frac{25}{53}$	$\frac{13}{47}$	$\frac{11}{52}$	$\frac{9}{49}$	4.8	$\frac{1}{48}$	$\frac{10-11}{57}$	$\frac{13}{54}$	$\frac{25}{59}$
$\frac{25}{45}$	$\frac{12}{41}$	$\frac{10.5}{47}$	$\frac{8}{42}$	4.3	$\frac{1}{43}$	$\frac{9-11}{50}$	$\frac{12}{47}$	$\frac{25}{51}$
$\frac{25}{64}$	$\frac{14}{63}$	$\frac{12}{69}$	$\frac{9}{66}$	7.0	$\frac{6}{65}$	$\frac{9-10}{73}$	$\frac{12}{69}$	$\frac{25}{71}$
$\frac{25}{41}$	$\frac{13.5}{49}$	$\frac{13-11}{58}$	$\frac{8}{52}$	5.4	$\frac{5}{55}$	$\frac{8-10}{59}$	$\frac{13}{46}$	$\frac{25}{46}$
$\frac{25}{37}$		$\frac{1}{35}$	$\frac{9}{41}$	3.6	$\frac{6}{37}$	$\frac{11-12}{47}$	$\frac{13}{40}$	$\frac{25}{34}$
$\frac{25}{18}$		$\frac{11}{20}$	$\frac{9}{26}$	2.2	$\frac{6}{23}$	$\frac{11}{32}$	$\frac{14}{21}$	$\frac{25}{21}$
BM #4 37+94								
$\frac{25}{62}$	$\frac{12}{65}$	$\frac{9}{74}$	$\frac{6}{67}$	6.5	$\frac{10}{68}$	$\frac{11}{72}$	$\frac{13}{66}$	$\frac{25}{68}$
$\frac{25}{36}$	$\frac{10}{46}$	$\frac{8}{57}$	$\frac{6}{50}$	4.6	$\frac{8}{48}$	$\frac{12}{55}$	$\frac{14}{52}$	$\frac{25}{42}$
$\frac{25}{39}$	$\frac{11}{22}$	$\frac{8-10}{35}$	$\frac{5}{25}$	2.2	$\frac{8}{24}$	$\frac{11-12}{33}$	$\frac{14}{26}$	$\frac{25}{13}$

41+0	1214.71	7.9	06.8
42+0		5.2	09.5
43+0		3.5	11.2
44		1.7	13.0
45	9.15 1222.91	0.95	1213.76
		8.3	14.6
46+0		6.7	16.2
47+0		4.6	18.3
48		1.7	21.2
49+0	12.25 1234.68	0.48	1222.43
		10.5	24.2
50+0		7.2	27.5
51+0		4.6	30.1
		1.75	1232.93
	1.75 1234.73		1132.98 ml.
52+0 rpl.		2.8	31.9

25-11	8	4	9	12	14	25
67	9.9	81	7.9	81	91	80
4.9						
25	9	7	6	5	4	25
52	45	66	63	52	49	40
						31
25	9	7	5	8	12	16
38	33	43	36	35	38	47
						31
25	9	5	8	13	16	25
32	22	19	17	18	34	22
25	9	6	7	13	14	25
87	90	87	83	84	99	90
						84
25	10	8	8	6	8	12
65	69	79	69	67	69	83
						29
25	10	9	6	8	12	25
48	47	57	50	46	46	57
						30
25	12	9	5	8	11	13
18	31	20	17	20	25	17
						13
25-10	8	5	8	11	11	25
99	119	110	105	110	116	91
						87
25-11	8	5	8	11	14	25
62	83	76	72	75	84	78
						54
25-11	8	6	8	11	13	25
43	56	50	46	49	57	44
						47
B.M. #5 Sta. 51+85						
25	13	10	7	6	9	11
28	37	41	37	28	33	39
						50

		123473		
53+0	385	1235.21	337	1231.36
F			2.5	31.7
54+0			4.2	31.0
55+0			5.0	30.2
56+0			6.3	28.9
57+0			7.6	27.6
58+0			8.2	27.0
	331	1230.35	8.7	27.04
59+0			4.3	26.0
60+0			5.5	24.8
61+0			7.3	23.0
62+0			8.7	21.6
63+0			9.2	21.1
63+06	10" C.I. P. Calk		9.1	21.2
	961	1230.68	9.8	1221.07

$\frac{25}{35}$	$\frac{14}{44}$	$\frac{12}{53}$	$\frac{8}{43}$	3.5	$\frac{6}{38}$	$\frac{11}{35}$	$\frac{20}{33}$	$\frac{25}{30}$
$\frac{25}{50}$	$\frac{13}{46}$	$\frac{12}{53}$	$\frac{8}{43}$	4.2	$\frac{6}{40}$	$\frac{10}{50}$	$\frac{12}{44}$	$\frac{25}{40}$
$\frac{25}{55}$	$\frac{12}{53}$	$\frac{11}{60}$	$\frac{8}{52}$	5.0	$\frac{5}{51}$	$\frac{10}{61}$	$\frac{12}{48}$	$\frac{25}{44}$
$\frac{25}{60}$	$\frac{12}{68}$	$\frac{10}{72}$	$\frac{7}{60}$	6.3	$\frac{5}{60}$	$\frac{10}{74}$	$\frac{12}{59}$	$\frac{25}{56}$
$\frac{25}{80}$	$\frac{13}{81}$	$\frac{11}{86}$	$\frac{8}{78}$	7.6	$\frac{6}{76}$	$\frac{11}{88}$	$\frac{14}{78}$	$\frac{25}{76}$
$\frac{25}{85}$	$\frac{13}{87}$	$\frac{11}{93}$	$\frac{7}{85}$	8.2	$\frac{5}{84}$	$\frac{11}{97}$	$\frac{14}{87}$	$\frac{25}{87}$
$\frac{25}{37}$	$\frac{13}{46}$	$\frac{12-11}{55}$	$\frac{8}{46}$	4.3	$\frac{7}{46}$	$\frac{11}{56}$	$\frac{13}{42}$	$\frac{25}{43}$
$\frac{25-13}{60}$	$\frac{6}{70}$	$\frac{7}{58}$	5.5	$\frac{7}{59}$	$\frac{11}{69}$	$\frac{13}{56}$	$\frac{25}{48}$	
$\frac{25}{66}$	$\frac{12}{76}$	$\frac{10-11}{85}$	$\frac{7}{77}$	7.3	$\frac{8}{78}$	$\frac{11}{84}$	$\frac{13}{72}$	$\frac{25}{75}$
$\frac{25}{80}$	$\frac{14}{91}$	$\frac{11}{91}$	$\frac{10-9}{97}$	$\frac{7}{89}$	8.7	$\frac{8}{89}$	$\frac{11-13}{99}$	$\frac{14}{93}$
$\frac{25}{103}$	$\frac{13}{99}$	$\frac{12-9}{105}$	$\frac{6}{90}$	9.2	$\frac{8}{94}$	$\frac{12-14}{102}$	$\frac{10}{10}$	$\frac{25}{104}$
$\frac{75}{98}$	FL	$\frac{7}{104}$	9.1	$\frac{10}{104}$	FL	$\frac{100}{114}$		

75+0		1227.78	4.9	22.9	
76+0			4.1	23.7	
77+0 VPI			2.8	25.0	
	363	1227.98	3.43	1224.35	
78+0			4.7	23.3	
79+0			6.9	21.1	
80+0			9.5	18.5	
81+0			10.3	17.7	
			8.00	1219.98	1220.07
81+60			9.5	18.5	
	Culvert				
82+0			8.9	19.1	
	1015	1228.02	10.11	1217.87	
83+0			6.8	21.2	
84+0			1.6	26.4	
	864	1234.76	1.90	1226.14	
			360	1231.16	1231.21
	360	1234.81			
85+0			5.2	29.6	

34

$\frac{25}{38}$	$\frac{11}{4.7}$	$\frac{7}{5.7}$	$\frac{5}{5.0}$	4.9	$\frac{12}{4.9}$	$\frac{10.5-17.5}{6.1}$	$\frac{18-25}{0.5}$
$\frac{25}{35}$	$\frac{11}{4.6}$	$\frac{2}{5.2}$	$\frac{5}{4.2}$	4.1	$\frac{11}{4.1}$	$\frac{14-15}{5.2}$	$\frac{17}{4.3}$
$\frac{25}{22}$	$\frac{10}{2.8}$	$\frac{8}{3.4}$	$\frac{6}{3.0}$	2.8	$\frac{10}{2.8}$	$\frac{12}{3.5}$	$\frac{15}{2.1}$
$\frac{25}{4.1}$	$\frac{10}{4.9}$	$\frac{8}{5.8}$	$\frac{4}{4.8}$	4.7	$\frac{10}{4.7}$	$\frac{14}{5.3}$	$\frac{16}{4.5}$
$\frac{25}{5.1}$	$\frac{12}{6.0}$	$\frac{7.5}{8.0}$	$\frac{5}{7.2}$	6.9	$\frac{10}{7.0}$	$\frac{14-16}{7.8}$	$\frac{18}{6.4}$
$\frac{25}{8.7}$	$\frac{12}{9.9}$	$\frac{10-8}{10.3}$	$\frac{5}{9.7}$	9.5	$\frac{12}{9.6}$	$\frac{16}{10.3}$	$\frac{18}{9.7}$
$\frac{20}{11.3}$	$\frac{10}{10.7}$	$\frac{7}{11.1}$	$\frac{5}{10.5}$	10.3	$\frac{11}{10.4}$	$\frac{14}{10.9}$	$\frac{15}{10.5}$
side	ch	on	HW,				
	$\frac{7.5}{11.5}$		$\frac{10}{13.4}$	9.5	$\frac{14}{13.4FL}$	$\frac{100}{14.1}$	
$\frac{25}{10.5}$	$\frac{9}{8.7}$	$\frac{7}{9.3}$	$\frac{5}{8.6}$	8.9	$\frac{9}{9.2}$	$\frac{12.5}{9.6}$	$\frac{14}{9.0}$
$\frac{25}{4.0}$	$\frac{14}{4.4}$	$\frac{9.7}{7.8}$	$\frac{5}{6.9}$	6.8	$\frac{9}{7.0}$	$\frac{13}{7.1}$	$\frac{20}{3.6}$
$\frac{25-12}{0.1}$		$\frac{8}{3.6}$	$\frac{5}{2.0}$	1.6	$\frac{10}{2.1}$	$\frac{14}{3.6}$	$\frac{21-25}{0.0}$
= BM #7	marks			84+90			
$\frac{25-16}{3.8}$	$\frac{10}{5.0}$	$\frac{8}{7.0}$	$\frac{4}{5.4}$	5.2	$\frac{11}{5.6}$	$\frac{11}{7.1}$	$\frac{20-25}{3.4}$

1234.81
86+0 2.7 32.1

910 1242.52 139 1233.42
87+0 7.7 34.8

88+0 6.1 36.4

89+0 5.3 37.2

90+0 4.5 38.0

91+0 3.7 38.8

807 1246.94 365 1238.87
92+0 7.0 39.9

93+0 5.8 41.1

94+0 4.3 42.6

95+0 2.9 44.0

5.30 1249.89 230 1244.59
5-35 3.71 1253.60 0.00 1249.89

2.00 1241.60 1251.53 used

200 1253.53
96+0 8.1 45.4

25-20 9 8 5 27 11 14 19-25
11 20 4.6 3.1 2.8 3.6 0.6

25-10 7 3 11 15-16 19 20
7.7 9.7 7.9 7.7 7.8 9.0 6.0 6.5

25-17 9 7 4 11 15 18 25
6.2 6.3 7.8 6.6 6.1 5.7 7.1 5.3 4.9

15 9 7 3 12 14.5 16 20
5.2 5.2 5.8 5.2 5.3 5.2 6.4 5.1 4.2

15 16 9 7-6 4 11 17 25
5.4 4.9 5.4 4.5 4.5 4.3 5.5 4.9 4.7

25-18 9 8 4 10 14 18 25
4.3 3.8 4.3 3.6 3.7 3.6 4.4 4.1 4.0

25-15 8 7-6 4 11 13-15 17 25
6.6 7.3 7.9 7.3 7.0 7.0 7.8 6.0 6.0

25-10 8 5 9 13 15 25
5.8 6.9 6.0 5.8 6.0 7.1 5.3 4.6

5 11 9-8 6 8 12 16 25
5.0 4.4 5.2 4.6 4.3 4.4 5.5 4.4 3.9

25 13 10 8 7 10 13 25
2.8 3.3 3.9 3.3 2.9 2.7 3.0 2.7 2.0

apiko W.C. Tree 96+25 20 E E = temp turn
BM # 8 = 98+30

25 12 12-10 8 7 9-11 12 25
7.5 8.0 9.2 8.4 8.1 8.2 8.7 7.5 6.9

1253.53
97+0 5.8 47.7

98+0 3.6 49.9

99+0 2.0 51.5

7.96 1260.38 111 1252.42

100+0 7.3 53.1

101+0 5.8 54.6

102 4.8 55.6

103 3.5 56.9

104 3.3 57.1

7.98 1261.64 272 1257.66

105 7.0 58.6

106 5.7 59.9

107 4.7 60.9

108+0 4.3 61.3

109 4.5 61.1

3.12 1262.52 1262.50

$\frac{25}{5.2}$ $\frac{12}{6.2}$ $\frac{10}{7.7}$ $\frac{6}{6.4}$ 5.8 $\frac{7}{6.1}$ $\frac{10-11}{7.4}$ $\frac{12}{6.0}$ $\frac{17}{4.7}$ $\frac{25}{4.6}$

$\frac{25}{3.2}$ $\frac{12}{3.9}$ $\frac{10}{4.9}$ $\frac{7}{3.9}$ 3.6 $\frac{7}{3.6}$ $\frac{10}{4.7}$ $\frac{11}{4.1}$ $\frac{25}{3.4}$

$\frac{25}{7.6}$ $\frac{13}{7.4}$ $\frac{11}{3.6}$ $\frac{7}{2.4}$ 2.0 $\frac{6}{2.1}$ $\frac{10}{3.0}$ $\frac{12}{2.0}$ $\frac{25}{1.8}$

$\frac{25}{6.0}$ $\frac{13}{7.4}$ $\frac{9-10}{8.9}$ $\frac{6}{7.9}$ 7.3 $\frac{7}{7.4}$ $\frac{10}{8.0}$ $\frac{12}{6.8}$ $\frac{25}{7.2}$

$\frac{25}{4.5}$ $\frac{12}{6.2}$ $\frac{11-9}{7.3}$ $\frac{6}{2.4}$ 5.8 $\frac{7}{5.7}$ $\frac{10}{6.7}$ $\frac{12}{6.3}$ $\frac{25}{5.9}$

$\frac{25}{4.1}$ $\frac{11}{4.9}$ $\frac{10}{5.8}$ $\frac{7}{5.0}$ 4.8 $\frac{7}{4.7}$ $\frac{11}{5.4}$ $\frac{13}{4.9}$ $\frac{25}{4.6}$

$\frac{25}{2.7}$ $\frac{13}{3.1}$ $\frac{12-10}{4.3}$ $\frac{7}{3.7}$ 3.5 $\frac{7}{3.8}$ $\frac{9}{4.3}$ $\frac{12}{4.0}$ $\frac{25}{3.7}$

$\frac{25}{3.3}$ $\frac{11}{3.6}$ $\frac{10}{4.2}$ $\frac{6}{3.4}$ 3.3 $\frac{7}{3.3}$ $\frac{10-11}{4.0}$ $\frac{13-25}{3.4}$

$\frac{25}{6.1}$ $\frac{13}{7.0}$ $\frac{12-10}{8.6}$ $\frac{7}{7.3}$ 7.0 $\frac{7}{7.1}$ $\frac{11-13}{8.3}$ $\frac{12}{7.2}$ $\frac{25}{7.0}$

$\frac{25}{4.6}$ $\frac{13}{5.3}$ $\frac{10-12}{7.3}$ $\frac{6}{6.0}$ 5.7 $\frac{7}{5.8}$ $\frac{11}{7.0}$ $\frac{13}{5.6}$ $\frac{25}{4.4}$

$\frac{25}{4.2}$ $\frac{15}{4.7}$ $\frac{11-10}{6.3}$ $\frac{6}{5.0}$ 4.7 $\frac{7}{4.9}$ $\frac{10}{5.4}$ $\frac{13}{4.8}$ $\frac{25}{4.6}$

$\frac{25}{3.8}$ $\frac{11}{4.5}$ $\frac{10-8}{5.5}$ $\frac{5}{4.6}$ 4.3 $\frac{9}{4.1}$ $\frac{12}{5.1}$ $\frac{14}{4.3}$ $\frac{25}{4.7}$

$\frac{25}{3.7}$ $\frac{11}{4.5}$ $\frac{9}{5.7}$ $\frac{6}{4.9}$ 4.5 $\frac{10}{4.7}$ $\frac{13}{5.3}$ $\frac{14}{4.5}$ $\frac{25}{4.3}$

1320 + 9 = Sta 109+55

121+0 V.P.I.	245	1256.28	7.7	125383	48.6
122+0			14.3		42.0
	0.98	1245.07	12.9	1244.09	
122+50			5.4		39.7
	682	1238.29	760	1237.47	
123+0			0.0		38.3
123+24 Culv.			0.2		38.1
	1019	1247.66		1237.47	
124+0			10.0		37.7
125+0. N. end cut			10.9		36.8
	870	1245.70	10.66	1237.00	
125+53 culvert.			8.3		37.4
126+0 Beg. cut.			7.4		38.3
	918	1254.78	0.10	1245.60	
127+0			11.5		43.3
128+0			5.9		48.9
129+0			3.3		51.5
130+0			1.4		53.4
	580	1259.37	1.21	1253.57	

	$\frac{25-15}{35}$	9	7.7	13	16	25
	80		81	4.3	47	
	$\frac{25}{57}$	$\frac{11}{121}$	14.3	$\frac{12}{142}$	$\frac{14-18}{148}$	$\frac{28}{70}$
	$\frac{20}{37}$	$\frac{18}{77}$	$\frac{15}{66}$	$\frac{9}{50}$	54	11
	FL	8.6	7.7	$\frac{23}{86}$	$\frac{25}{86}$	$\frac{30}{106}$
TP on Stump			0.0			
	$\frac{35}{124}$	$\frac{25}{95}$	$\frac{8}{0.5}$	0.0	$\frac{10}{0.50}$	$\frac{28}{102}$
					$\frac{35}{12.2}$	
	$\frac{50}{129}$	$\frac{23}{148}$	FLW	$\frac{0.20}{10}$	$\frac{22}{152}$	$\frac{70}{16.0}$
					FLE	
	$30 - \frac{25}{3}$	$\frac{15}{98}$	10.0	$\frac{14}{93}$	$\frac{24}{11}$	30
	$\frac{25}{11.9}$	$\frac{17}{10.9}$	10.9	$\frac{13}{11.6}$	$\frac{15}{12.0}$	$\frac{17}{10.9}$
					$\frac{25}{10.2}$	
	Pond	$\frac{100-30}{12.7}$	83	$\frac{13}{150}$	$\frac{15}{155}$	$\frac{90}{184}$
					FL	
	$\frac{25}{97}$	$\frac{19}{95}$	$\frac{13}{78}$	7.4	$\frac{9}{79}$	$\frac{14}{92}$
					$\frac{15}{86}$	$\frac{25}{99}$
	$\frac{25}{58}$	$\frac{15}{12.3}$	$\frac{120}{114}$	11.5	$\frac{8}{11.6}$	$\frac{10}{12.1}$
						$\frac{21-25}{42}$
	$\frac{25}{23}$	$\frac{2}{26}$	$\frac{16}{64}$	$\frac{13}{56}$	59	$\frac{9}{62}$
					$\frac{11}{73}$	$\frac{19}{38}$
					$\frac{25}{35}$	
	$\frac{25}{13}$	$\frac{17}{38}$	$\frac{13}{28}$	33	$\frac{10}{32}$	$\frac{14}{42}$
					$\frac{20}{25}$	$\frac{25}{23}$
	$\frac{19}{5.4}$	$\frac{15}{19}$	$\frac{13}{15}$	1.4	$\frac{11}{18}$	$\frac{14}{20}$
						$\frac{16-25}{12}$

143+24	Culv. 12" Cor. I.P.	1266.33	71	59.2
	472	1263.68	737	1258.96
144+0			3.9	59.8
144+63	10" Cor Culv.		5.4	58.3
145+0			5.5	58.2
146+0			4.9	58.8
147+0			3.7	60.0
147+63	Culv. 12" Cor. I.P.		3.2	60.5
	723	1267.43	348	1260.20
			318	1264.25
				1264.26
147+79	± Top Line Rd.			1259.6
	318	1267.44		
148+08	12" C.I.P. + Cor. I.P.		6.4	61.0
			drains E in Rd ditch	
148+0			6.0	60.6
149+0			4.9	62.5
	551	1268.80	415	1263.29
150+0			5.5	63.3
151+0			5.0	63.2
152+0			5.1	63.7

$\frac{50}{30}$	$\frac{12}{84}$	7.1	$\frac{4.5}{8.8}$ FL	$\frac{100}{12.8}$
$\frac{25-17}{10}$	$\frac{13}{42}$	$\frac{4}{3.9}$	3.9	$\frac{9}{17}$
$\frac{50}{30}$	$\frac{13}{64}$ FL	5.4	$\frac{3.5}{6.5}$ FL E	$\frac{14-20}{1.8}$
$\frac{50}{26}$	$\frac{12}{54}$	$\frac{15-13}{6.0}$	$\frac{11}{5.0}$	$\frac{8}{5.7}$
			5.0	$\frac{12}{6.0}$
				$\frac{16.5-20}{6.6}$
$\frac{25}{32}$	$\frac{11}{47}$	$\frac{7}{5.3}$	$\frac{5}{4.9}$	4.9
				$\frac{14-15}{5.3}$
				$\frac{22-25}{5.9}$
$\frac{25}{2.0}$	$\frac{8}{2.6}$	$\frac{5}{4.4}$	$\frac{3}{3.5}$	3.7
				$\frac{13}{3.3}$
				$\frac{16}{4.1}$
				$\frac{18-25}{2.7}$
			$\frac{12}{2.8}$	3.2
				$\frac{10}{4.8}$ FL
				$\frac{100}{12.2} = \phi Rd.$
B.M. # 12 147+63				
$\frac{100}{17}$				
	$\frac{12}{7.0}$	6.4		$\frac{11}{8.0}$
$\frac{25}{5.2}$	$\frac{11}{5.4}$	6.8	$\frac{12}{7.5}$	$\frac{14}{8.7}$
			$\frac{19}{7.0}$	$\frac{25}{8.3}$
$\frac{25}{10}$	$\frac{15}{25}$	$\frac{9}{5.7}$	$\frac{5}{5.1}$	4.9
				$\frac{7}{5.3}$
				$\frac{10}{5.9}$
				$\frac{12}{4.6}$
				$\frac{21-25}{5.0}$
				$\frac{25}{5.6}$
$\frac{25}{4.4}$	$\frac{13}{5.7}$	$\frac{12}{6.1}$	$\frac{10}{5.7}$	5.5
				$\frac{7-8}{6.0}$
				$\frac{10}{5.6}$
				$\frac{18-20}{6.6}$
$\frac{25}{4.6}$	$\frac{13}{5.7}$	$\frac{11-12}{6.3}$	$\frac{9}{5.7}$	5.6
				$\frac{7}{5.8}$
				$\frac{9}{6.7}$
				$\frac{11}{6.0}$
				$\frac{17-20}{6.6}$
$\frac{25}{17}$	$\frac{14}{5.8}$	$\frac{11-10}{4.6}$	$\frac{7}{5.0}$	5.1
				$\frac{6}{5.3}$
				$\frac{10}{5.9}$
				$\frac{12}{4.7}$
				$\frac{17}{2.0}$
				4.7
				$\frac{25}{7.0}$

126880

153+0 3.2 65.6

883 1276.14 149 1267.31

154+0 9.8 66.3

154+25. Culv 10.0 66.1

155+0 8.9 67.2

✓ 156+0 8.0 68.1

157+0 6.3 69.8

158+0 5.0 71.1

159+0 5.0 71.1

482 1275.78 518 1270.96

028 1275.50 1275.61

031 127592

160+0 4.9 71.0

161+0 5.5 70.4

162+0 7.4 68.5

163+0 9.6 66.3

v=6-30

$$\begin{array}{cccccccccccc} \frac{25}{18} & \frac{14}{38} & \frac{11-12}{45} & \frac{9}{36} & 32 & \frac{8}{40} & \frac{10}{45} & \frac{12}{32} & \frac{18}{36} & \frac{25}{38} \end{array}$$

T.P. Top Boulder

$$\begin{array}{cccccccccccc} \frac{25}{77} & \frac{15}{94} & \frac{11-12}{103} & \frac{7}{96} & 9.8 & \frac{7}{101} & \frac{7}{104} & \frac{14}{103} & \frac{19-25}{113} \end{array}$$

$$\frac{50}{73} \quad \frac{125}{111 \text{ FL.}} \quad 12.0 \quad \frac{8}{114 \text{ FL.}} \quad -7\% \text{ gn. down}$$

$$\begin{array}{cccccccccccc} \frac{25}{68} & \frac{12}{84} & \frac{10}{98} & \frac{7}{90} & 8.9 & \frac{9}{95} & \frac{11}{102} & \frac{13}{92} & \frac{25}{108} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{46} & \frac{10}{73} & \frac{8-7}{88} & \frac{5}{82} & 8.0 & \frac{11}{84} & \frac{13}{90} & \frac{16}{80} & \frac{25}{98} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{33} & \frac{10}{67} & \frac{8-7}{75} & \frac{5}{65} & 6.3 & \frac{11}{67} & \frac{13}{76} & \frac{16}{61} & \frac{20-25}{59} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{23} & \frac{10}{52} & \frac{8-7}{64} & \frac{5}{54} & 5.0 & \frac{11}{56} & \frac{14}{64} & \frac{16}{55} & \frac{20-25}{57} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{29} & & \frac{9}{53} & 5.0 & \frac{12}{56} & \frac{13-14}{62} & \frac{16}{59} & \frac{20-25}{60} \end{array}$$

B.M. 13 - 161+24 For check Lev. See pg 59

$$\begin{array}{cccccccccccc} \frac{25}{29} & \frac{11}{43} & \frac{8}{59} & \frac{5}{52} & 4.9 & \frac{11}{55} & \frac{13}{61} & \frac{15}{56} & \frac{25}{62} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{13} & \frac{11}{55} & \frac{8}{69} & \frac{5}{57} & 5.8 & \frac{10}{59} & \frac{12}{67} & \frac{13}{58} & \frac{25}{60} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{18} & \frac{11}{62} & \frac{8}{88} & \frac{6}{77} & 7.4 & \frac{8}{77} & \frac{11}{81} & \frac{18-25}{58} \end{array}$$

$$\begin{array}{cccccccccccc} \frac{25}{70} & \frac{8}{90} & \frac{6}{90} & \frac{4}{100} & 9.6 & \frac{12}{100} & \frac{14}{104} & \frac{18}{95} & \frac{25}{100} \end{array}$$

164+0		127592	12.2	63.7
	201	126706	10.90	126502
165+0			5.5	61.6
166+0			10.8	56.3
	124	1256,30	12.00	1255,06
167+0			3.1	53.2
168+0			5.9	50.4
169+0			8.9	47.4
170+0			12.3	44.0
	184	1245.74	12.40	1243.90
171+0			6.0	39.7
172+0			9.3	36.4
173+0			11.4	34.3
+52	410	1238,51	11.33	1234.41
+52	Coll.		5.1	33.4
174+0			5.6	32.9
175+0			5.0	33.5

Grabber
Passback Hill 6-7-35 41

	$\frac{25}{84}$	$\frac{15}{112}$	12.2	7	12.7	$\frac{10-11}{141}$	$\frac{14}{12.2}$	$\frac{25}{12.6}$	
T.P. Red	$\frac{25}{20}$	$\frac{14}{37}$	$\frac{12}{66}$	$\frac{8}{56}$	5.5	7	$\frac{10}{63}$	$\frac{12-13}{87}$	$\frac{16-25}{65}$
	$\frac{25}{78}$	$\frac{14}{98}$	$\frac{11}{123}$	$\frac{7}{110}$	10.8	$\frac{8}{110}$	$\frac{11-12}{130}$	$\frac{15-25}{10.6}$	
	$\frac{25}{79}$	$\frac{12}{24}$	$\frac{10}{47}$	$\frac{6}{35}$	3.1	$\frac{10}{37}$	$\frac{13-15}{48}$	$\frac{16-25}{28}$	
	$\frac{25}{41}$	$\frac{12}{45}$	$\frac{9}{74}$	$\frac{7}{64}$	5.9	$\frac{8}{64}$	$\frac{12-13}{77}$	$\frac{15-25}{5.1}$	
	$\frac{25}{66}$	$\frac{13}{69}$	$\frac{10}{102}$	$\frac{7}{92}$	8.9	$\frac{9}{96}$	$\frac{11-12}{10.6}$	$\frac{16-25}{7.7}$	
	$\frac{25}{84}$	$\frac{13}{94}$	$\frac{9}{133}$	$\frac{7}{126}$	12.3	7	$\frac{10}{138}$	$\frac{15}{10.0}$	$\frac{25}{98}$
	$\frac{25}{26}$	$\frac{13}{35}$	$\frac{10}{70}$	$\frac{7}{61}$	6.0	$\frac{8}{67}$	$\frac{11}{7.8}$	$\frac{14}{31}$	$\frac{25}{2.5}$
	$\frac{25}{71}$	$\frac{14}{97}$	$\frac{12}{111}$	$\frac{9}{99}$	9.3	7	$\frac{9-10}{106}$	$\frac{12}{84}$	$\frac{25}{80}$
	$\frac{25}{123}$	$\frac{15}{118}$	$\frac{13}{124}$	$\frac{11}{119}$	11.4	5	$\frac{8-9}{132}$	$\frac{10}{118}$	$\frac{25}{130}$
	$\frac{50}{70}$	$\frac{14}{82}$	FL	5.1		$\frac{115}{83}$	FL	$\frac{100}{96}$	
	$\frac{25}{49}$	$\frac{17}{60}$	$\frac{15-16}{67}$	$\frac{12}{61}$	5.6	$\frac{6}{57}$	$\frac{10-11}{68}$	$\frac{13}{61}$	$\frac{25}{6.9}$
	$\frac{25}{16}$	$\frac{15}{70}$	$\frac{12}{54}$	5.0	$\frac{7}{58}$	$\frac{12-25}{26}$			

		1238.51			
176+0			11.2	27.3	
	0.21	1230.00	8.72	1229.79	
177+0			5.9	24.1	
+13 Calv.			6.0	24.0	
178+0			5.6	24.4	
	11.00	1240.22	0.78	1229.22	
179+0			13.4	26.8	
180+0			7.0	33.0	
181+0			4.7	35.5	
	4.65	1244.27	0.55	1239.67	1239.62
182+0			6.4	37.9	
183+0			4.5	39.8	
184+0			4.4	39.9	
185+0			6.1	38.2	
186+0			7.0	37.3	
	4.22	1240.97	7.52	1236.75	
186+75 Calv			4.0	37.0	

$\frac{25}{60}$	$\frac{16}{126}$	$\frac{13}{114}$	112	$\frac{3}{11.1}$	$\frac{5}{114}$	$\frac{9}{84}$	$\frac{25}{68}$
$\frac{25}{89}$	$\frac{16}{75}$	$\frac{12}{60}$	59	$\frac{3}{57}$	$\frac{7}{73}$	$\frac{19-25}{90}$	
$\frac{50}{93}$	$\frac{11}{11.1 FL}$	60		$\frac{4}{102 FL}$	$\frac{100}{113}$		
$\frac{25}{66}$	$\frac{15}{61}$	$\frac{13-12}{66}$	$\frac{11}{61}$	56	7	$\frac{8-9}{63}$	$\frac{11}{61}$ $\frac{25}{82}$
$\frac{25}{83}$	$\frac{20}{90}$	$\frac{12}{141}$	$\frac{10}{136}$	134	$\frac{6}{136}$	$\frac{8}{144}$	$\frac{13}{97}$ $\frac{25}{95}$
$\frac{25}{40}$	$\frac{16}{69}$	$\frac{14-13}{79}$	$\frac{11}{71}$	70	$\frac{5}{73}$	$\frac{8}{84}$	$\frac{10}{61}$ $\frac{25}{40}$
$\frac{25}{27}$	$\frac{17}{35}$	$\frac{13-14}{59}$	$\frac{10}{52}$	47	$\frac{6}{51}$	$\frac{7}{57}$	$\frac{10-25}{33}$
BM# 14 Sta 181+64							
$\frac{25}{40}$	$\frac{15}{50}$	$\frac{12}{77}$	$\frac{10}{68}$	64	$\frac{6}{67}$	$\frac{9}{76}$	$\frac{11-25}{50}$
$\frac{25}{39}$	$\frac{15}{48}$	$\frac{13-12}{58}$	$\frac{10}{51}$	45	2	$\frac{10}{61}$	$\frac{12-25}{52}$
$\frac{25}{34}$	$\frac{14}{48}$	$\frac{12}{59}$	$\frac{10}{50}$	44	7	$\frac{9-10}{58}$	$\frac{12}{51}$ $\frac{25}{57}$
$\frac{25}{54}$	$\frac{13}{66}$	$\frac{10-11}{74}$	$\frac{8}{68}$	61	$\frac{7}{66}$	$\frac{11-12}{74}$	$\frac{13}{70}$ $\frac{25}{73}$
$\frac{25}{53}$	$\frac{12}{74}$	$\frac{10}{83}$	$\frac{8}{76}$	70	$\frac{9}{74}$	$\frac{12-13}{82}$	$\frac{15}{74}$ $\frac{25}{76}$
ditch drain only							
	$\frac{10}{52}$	40		$\frac{9}{51 FL}$	$\frac{100}{88}$		

		1240.97			
187+0			3.9	37.1	
188+0			4.0	37.0	
189+0			7.2	33.8	
190+0			9.8	31.2	
191+0			11.8	29.2	
192+0	135	1230.46	11.86	1229.11	
			3.3	27.2	
193+0			5.7	24.8	
194+0			7.1	23.4	
194+27 BM 102		1226.31	5.15	1225.31	112529 etc
195+0			4.5	21.8	
196+0			6.3	20.0	
197			7.6	18.7	
197+79 +98+0	Calv.		8.3	18.0	
198+0	136	1220.45	8.5 7.2	17.8 1219.9	

$\frac{25}{29}$	$\frac{13}{44}$	$\frac{11-12}{50}$	$\frac{9}{46}$	39	$\frac{9}{43}$	$\frac{11-12}{51}$	$\frac{13}{43}$	$\frac{25}{50}$
$\frac{25}{19}$	$\frac{15}{27}$	$\frac{11}{58}$	$\frac{9}{44}$	40	$\frac{11}{43}$	$\frac{14-25}{26}$		
$\frac{25}{47}$	$\frac{16}{68}$	$\frac{13}{90}$	$\frac{11}{77}$	72	$\frac{10}{70}$	$\frac{14-25}{46}$		
$\frac{25}{77}$	$\frac{15}{100}$	$\frac{13}{113}$	$\frac{10}{102}$	98	$\frac{7}{104}$	$\frac{9}{108}$	$\frac{12}{89}$	$\frac{25}{80}$
$\frac{25}{106}$	$\frac{14}{116}$	$\frac{10}{131}$	$\frac{8}{120}$	118	7	$\frac{9}{128}$	$\frac{12}{116}$	$\frac{25}{104}$
$\frac{25}{20}$	$\frac{14}{33}$	$\frac{11}{52}$	$\frac{8}{39}$	33	7-9	$\frac{10}{47}$	$\frac{13}{32}$	$\frac{25}{24}$
$\frac{25}{30}$	$\frac{16}{51}$	$\frac{14-11}{77}$	$\frac{9}{60}$	57	7	$\frac{9}{59}$	$\frac{11}{59}$	$\frac{25}{46}$
$\frac{25}{47}$	$\frac{17}{57}$	$\frac{12-15}{96}$	$\frac{8}{78}$	71	8	$\frac{11}{75}$	$\frac{14}{85}$	$\frac{25}{73}$
BM #15 194+27								
$\frac{25}{27}$	$\frac{15}{49}$	$\frac{13-10}{63}$	$\frac{8}{52}$	45	$\frac{9}{49}$	$\frac{12}{57}$	$\frac{14}{46}$	$\frac{25}{43}$
$\frac{25}{51}$	$\frac{13}{64}$	$\frac{10-12}{75}$	$\frac{8}{67}$	63	$\frac{10}{63}$	$\frac{12-13}{73}$	$\frac{14-25}{61}$	
$\frac{25}{72}$	$\frac{14}{72}$	$\frac{12-11}{84}$	$\frac{10}{77}$	76	$\frac{11}{78}$	$\frac{13}{81}$	$\frac{16}{73}$	$\frac{25}{79}$
ditch pr $\frac{10}{96}$ FL 83 $\frac{9}{102}$ FL 11.2								
$\frac{25}{84}$	$\frac{12}{84}$	$\frac{11}{92}$	$\frac{8}{86}$	85	$\frac{10}{84}$	$\frac{13}{92}$	$\frac{25}{90}$	

1220.45

199+0			3.0	17.5	
200+0			6.2	14.3	
201+0			9.0	11.5	
202+0	370	1213.33	10.82	1209.63	
203+0			4.3	9.0	
204+0			6.6	6.7	
205+0			8.4	4.9	
205+0			10.6	2.7	
	271	1204.93	11.11	1202.22	
206+0			4.2	1200.7	
206+15	182	1204.91	182	1203.11	120309
207+0			6.5	1198.4	
207					
208+0			10.9	1194.0	
	0.55	1193.95	11.51	1193.40	
209+0			5.4	1188.6	
210+0			7.5	1186.5	
211+0			8.9	1185.1	

$\frac{25}{00}$	$\frac{17}{05}$	$\frac{11}{26}$	30	$\frac{11}{35}$	$\frac{14}{53}$	$\frac{19}{08}$	$\frac{25}{18}$
$\frac{25}{32}$	$\frac{10}{63}$	62	$\frac{9}{67}$	$\frac{14}{78}$	$\frac{18}{43}$	$\frac{25}{41}$	
$\frac{25}{84}$	$\frac{11}{92}$	$\frac{9}{102}$	$\frac{7}{96}$	90	$\frac{9}{94}$	$\frac{13-15}{113}$	$\frac{17}{85}$ $\frac{25}{90}$
$\frac{25}{24}$	$\frac{10}{31}$	$\frac{8}{57}$	$\frac{6}{48}$	43	$\frac{12}{48}$	$\frac{14-17}{59}$	$\frac{20}{24}$ $\frac{25}{27}$
$\frac{25}{48}$	$\frac{13}{48}$	$\frac{7}{82}$	$\frac{5}{70}$	66	$\frac{13}{72}$	$\frac{20-25}{46}$	
$\frac{25}{70}$	$\frac{11}{75}$	$\frac{8}{101}$	$\frac{6}{90}$	84	$\frac{15}{91}$	$\frac{17-20}{104}$	$\frac{21-25}{74}$
$\frac{25}{90}$	$\frac{11}{97}$	$\frac{8}{124}$	$\frac{6}{110}$	106	$\frac{16}{110}$	$\frac{17-20}{121}$	$\frac{21}{93}$ $\frac{25}{97}$
$\frac{25}{24}$	$\frac{14}{27}$	$\frac{89}{59}$	$\frac{7}{47}$	42	$\frac{13}{44}$	$\frac{17-18}{63}$	$\frac{25}{22}$
$\frac{25}{43}$	$\frac{16}{46}$	$\frac{13}{89}$	$\frac{7}{73}$	65	$\frac{13}{65}$	$\frac{15}{85}$	$\frac{25}{38}$
$\frac{25}{73}$	$\frac{15}{73}$	$\frac{9}{125}$	$\frac{7}{110}$	109	$\frac{11}{106}$	$\frac{13-15}{118}$	$\frac{21}{70}$ $\frac{25}{63}$
$\frac{25}{20}$	$\frac{15}{25}$	$\frac{9-11}{59}$	$\frac{8}{56}$	54	$\frac{10}{53}$	$\frac{13}{68}$	$\frac{19}{25}$ $\frac{25}{23}$
$\frac{25}{75}$	$\frac{11}{76}$	$\frac{9-8}{83}$	$\frac{6}{77}$	75	$\frac{11}{77}$	$\frac{13}{84}$	$\frac{16}{78}$ $\frac{25}{73}$
$\frac{25}{94}$	$\frac{9}{90}$	$\frac{8-7}{98}$	$\frac{6}{91}$	89	$\frac{11}{90}$	$\frac{13-14}{95}$	$\frac{15}{86}$ $\frac{25}{89}$

		1193.95		
212+0			9.5	1184.5
	278	1187.32	9.41	1184.54
213+0			8.5	1183.8
214+0			6.3	1182.0
215+0			9.4	1177.9
	112	1176.04	12.40	1174.92
216+0			1.4	1174.7
217+0			3.3	1172.8
218+0			4.6	1171.5
219+0			5.3	1170.8
220+0			5.8	1170.3
✓ 221+0			6.3	69.8
	453	1174.25	6.32	1169.72
			2.80	1171.45
	280	1174.37		1171.57 use
222+0			4.8	69.6
222+59 Calc.			4.7	69.7

$\frac{25}{10.6}$	$\frac{12}{9.9}$	$\frac{8-10}{11.0}$	$\frac{7}{10.0}$	9.5	$\frac{11}{9.8}$	$\frac{13-14}{10.9}$	$\frac{15}{9.6}$	$\frac{25}{9.8}$
$\frac{25}{3.5}$	$\frac{13}{3.7}$	$\frac{11-10}{5.3}$	$\frac{8}{4.0}$	3.5	$\frac{10}{3.9}$	$\frac{13}{5.7}$	$\frac{15}{3.9}$	$\frac{25}{3.2}$
$\frac{25}{4.0}$	$\frac{14}{4.5}$	$\frac{10-12}{7.4}$	$\frac{7}{5.6}$	5.3	$\frac{11}{5.9}$	$\frac{14}{8.2}$	$\frac{19}{4.9}$	$\frac{25}{4.2}$
$\frac{25}{7.9}$	$\frac{16}{7.5}$	$\frac{12-10}{11.5}$	$\frac{8}{9.7}$	9.4	$\frac{12}{10.0}$	$\frac{14-17}{11.7}$	$\frac{19}{8.5}$	$\frac{25}{8.7}$
$\frac{25}{.7}$	$\frac{14}{.7}$	$\frac{12-9}{2.6}$	$\frac{7}{1.8}$	1.4	$\frac{11}{1.6}$	$\frac{15-18}{2.7}$	$\frac{20-25}{0.4}$	
$\frac{25}{2.1}$	$\frac{11}{3.8}$	$\frac{10-8}{4.3}$	$\frac{6}{3.6}$	3.3	$\frac{11}{3.6}$	$\frac{14}{4.4}$	$\frac{16}{3.7}$	$\frac{25}{4.0}$
$\frac{25}{5.8}$	$\frac{10}{4.8}$	$\frac{6-10}{5.4}$	$\frac{5}{4.9}$	4.6	$\frac{11}{4.7}$	$\frac{13-14}{5.2}$	$\frac{16}{4.6}$	$\frac{25}{5.0}$
$\frac{25}{6.2}$	$\frac{10}{5.5}$	$\frac{9-7}{6.1}$	$\frac{6}{5.6}$	5.3	$\frac{11}{5.5}$	$\frac{12-14}{6.0}$	$\frac{16}{5.4}$	$\frac{25}{5.9}$
$\frac{25}{6.3}$	$\frac{13}{6.8}$	$\frac{9}{6.8}$	$\frac{8}{6.8}$	5.8	$\frac{12}{6.9}$	$\frac{13-15}{6.9}$	$\frac{16}{6.0}$	$\frac{25}{6.4}$
$\frac{25-20}{4.3}$	$\frac{10}{6.4}$	$\frac{8-7}{7.3}$	$\frac{6}{6.6}$	6.3	$\frac{12}{6.5}$	$\frac{14}{7.4}$	$\frac{16}{6.6}$	$\frac{25}{6.9}$
BM #17 222+36								
$\frac{25}{3.6}$	$\frac{11}{4.8}$	$\frac{8}{6.1}$	$\frac{7}{5.3}$	4.8	$\frac{12}{5.1}$	$\frac{14-15}{6.0}$	$\frac{17}{5.2}$	$\frac{25}{5.4}$
Road ditch only								
			$\frac{6.9}{7.4}$	4.7	$\frac{13}{7.1}$ FL.	$\frac{100}{7.2}$		

223+0	1174.37	4.6	69.8	
224+0		4.1	70.3	
225+0	1.00 1170.37	3.8	70.6	
226+0	1.85 1173.57	2.65	1171.72	
227+0		3.2	70.4	
228+0		5.2	68.4	
229+0		7.3	66.3	
229+0		7.4	66.2	
229+14 Culv.		6.9	66.7	
	845 1176.46	556	1168.01	1168.06
230+0		11.0	65.5	
231+0				
	945 1176.50	945	1167.01	1167.05
231+94 = X rd		6.3	70.2	
232+0		6.3	70.2	
	1022 1185.08	164	1174.86	

$\frac{25}{46}$	$\frac{11}{50}$	$\frac{8-10}{56}$	$\frac{6}{50}$	46	$\frac{13}{50}$	$\frac{15}{62}$	$\frac{16-25}{56}$
$\frac{25}{43}$	$\frac{12}{48}$	$\frac{10-9}{54}$	$\frac{7}{48}$	41	$\frac{12}{46}$	$\frac{14}{57}$	$\frac{16-25}{49}$
$\frac{25}{27}$	$\frac{12}{36}$	$\frac{10-9}{51}$	$\frac{6}{43}$	38	$\frac{13}{40}$	$\frac{14-16}{49}$	$\frac{17-25}{39}$
$\frac{25}{19}$	$\frac{11}{29}$	$\frac{8}{49}$	$\frac{6}{40}$	32	$\frac{13}{33}$	$\frac{15-17}{50}$	$\frac{18-25}{38}$
$\frac{25}{17}$	$\frac{16}{23}$	$\frac{11}{68}$	$\frac{8}{57}$	52	$\frac{10}{56}$	$\frac{11}{61}$	$\frac{17-25}{26}$
$\frac{25}{48}$	$\frac{20}{60}$	$\frac{15}{84}$	$\frac{14-13}{90}$	$\frac{10}{78}$	73	$\frac{8}{78}$	$\frac{11-12}{92}$
$\frac{25}{94}$	$\frac{20}{86}$	$\frac{18-15}{100}$	$\frac{10}{74}$	74	$\frac{5}{75}$	$\frac{13}{107}$	$\frac{25}{101}$
	$\frac{100}{123}$		$\frac{9}{122FL}$	69	$\frac{7}{11.9FL}$		$\frac{50}{106}$
Term. W	$\frac{25}{120}$	$\frac{20}{118}$	$\frac{18}{127}$	$\frac{13}{116}$	110	$\frac{11}{112}$	$\frac{6-9}{119}$
							$\frac{10-25}{115}$
B.M. #18				231+63			
				$\frac{100}{101}$	63		$\frac{100}{0.5}$
				$\frac{25}{87}$	63		$\frac{39}{25}$

118508

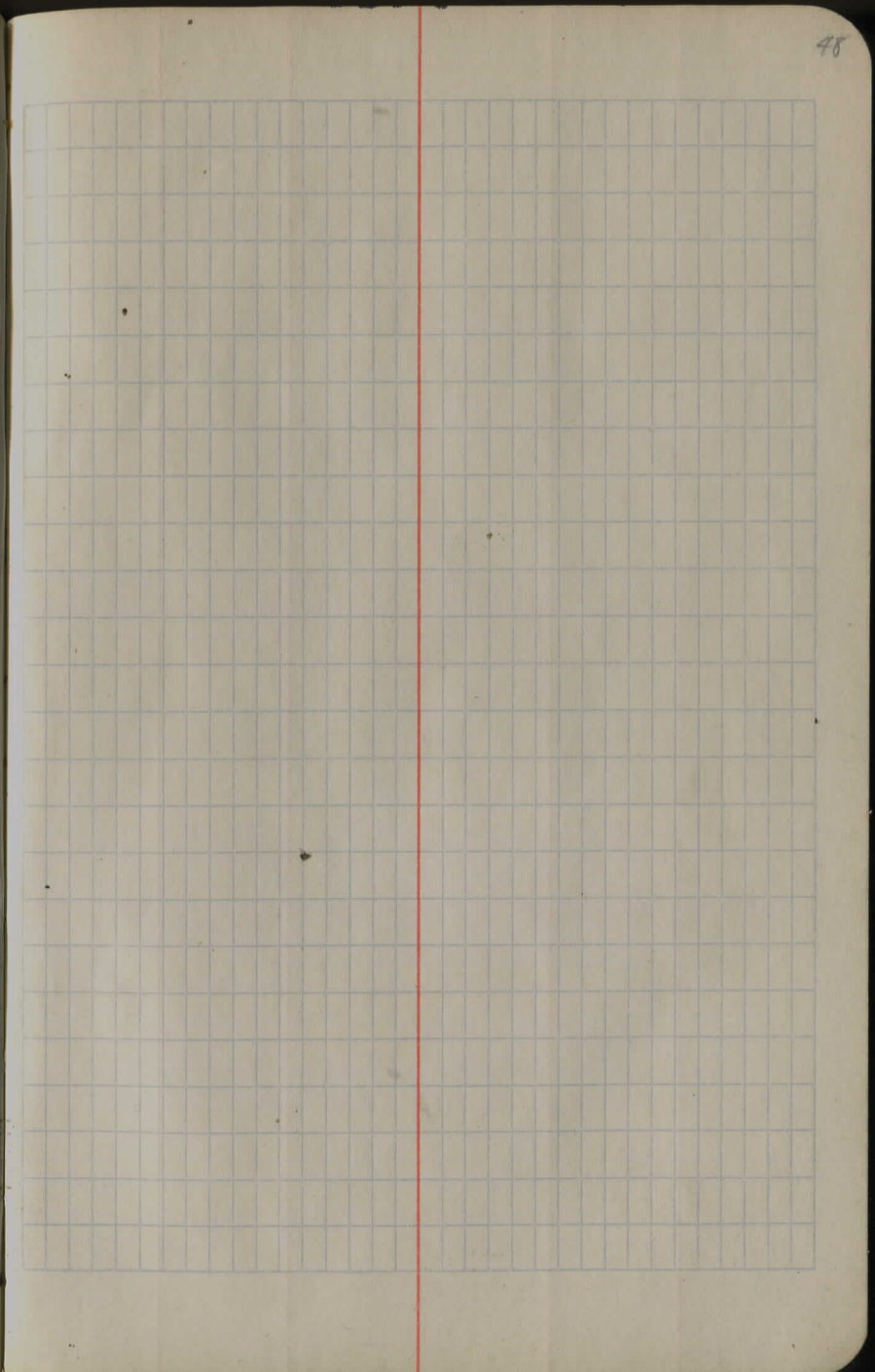
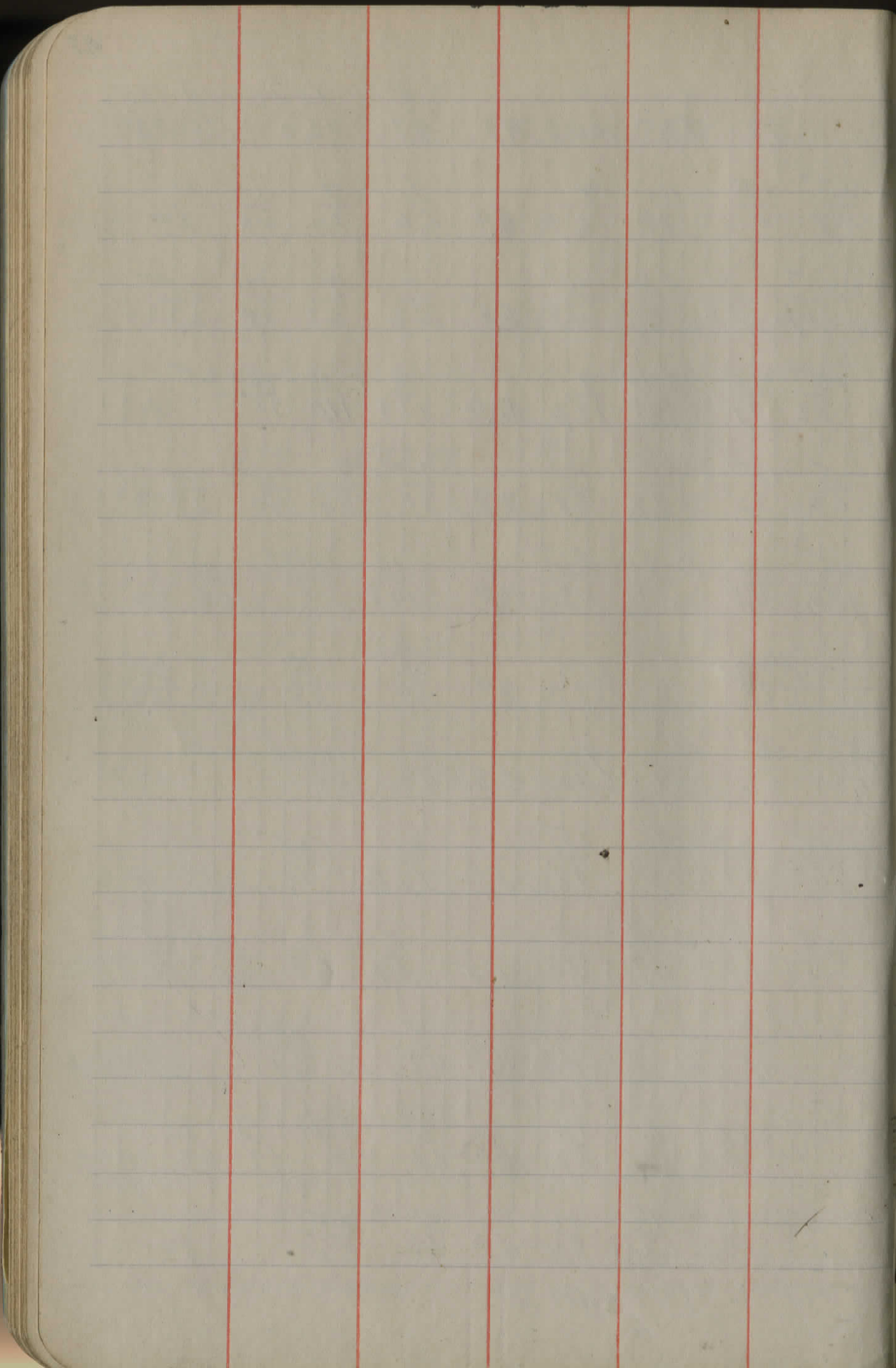
233+0		9.3	75.8
234+0		5.9	79.2
235+0		5.5	79.6
236+0		12.0	73.1
	0.79	1173.98	11.89
237+0		7.8	66.2
238+0		11.0	63.0
	1.65	1164.36	11.27
238+69 Bridge		2.9	61.5
239+0		3.8	60.6
240+0 + Calv.		5.1	59.3
241+0		5.5	58.9
242+0		4.3	60.1
	6.38	1166.56	4.18
243		6.0	60.6
+66.04 =		5.0	61.6
S.L. Middfld Village		4.45	1162.11

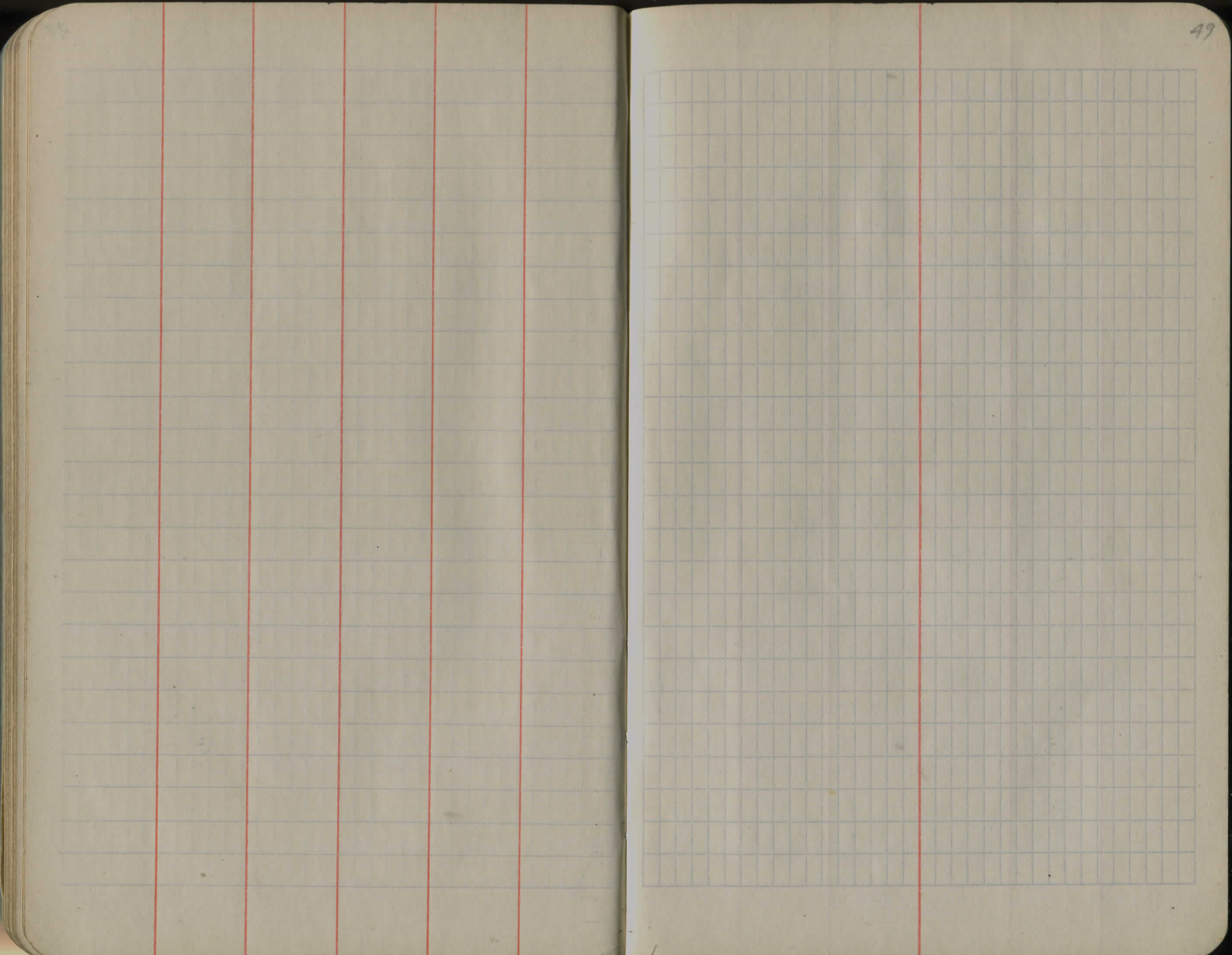
Road only

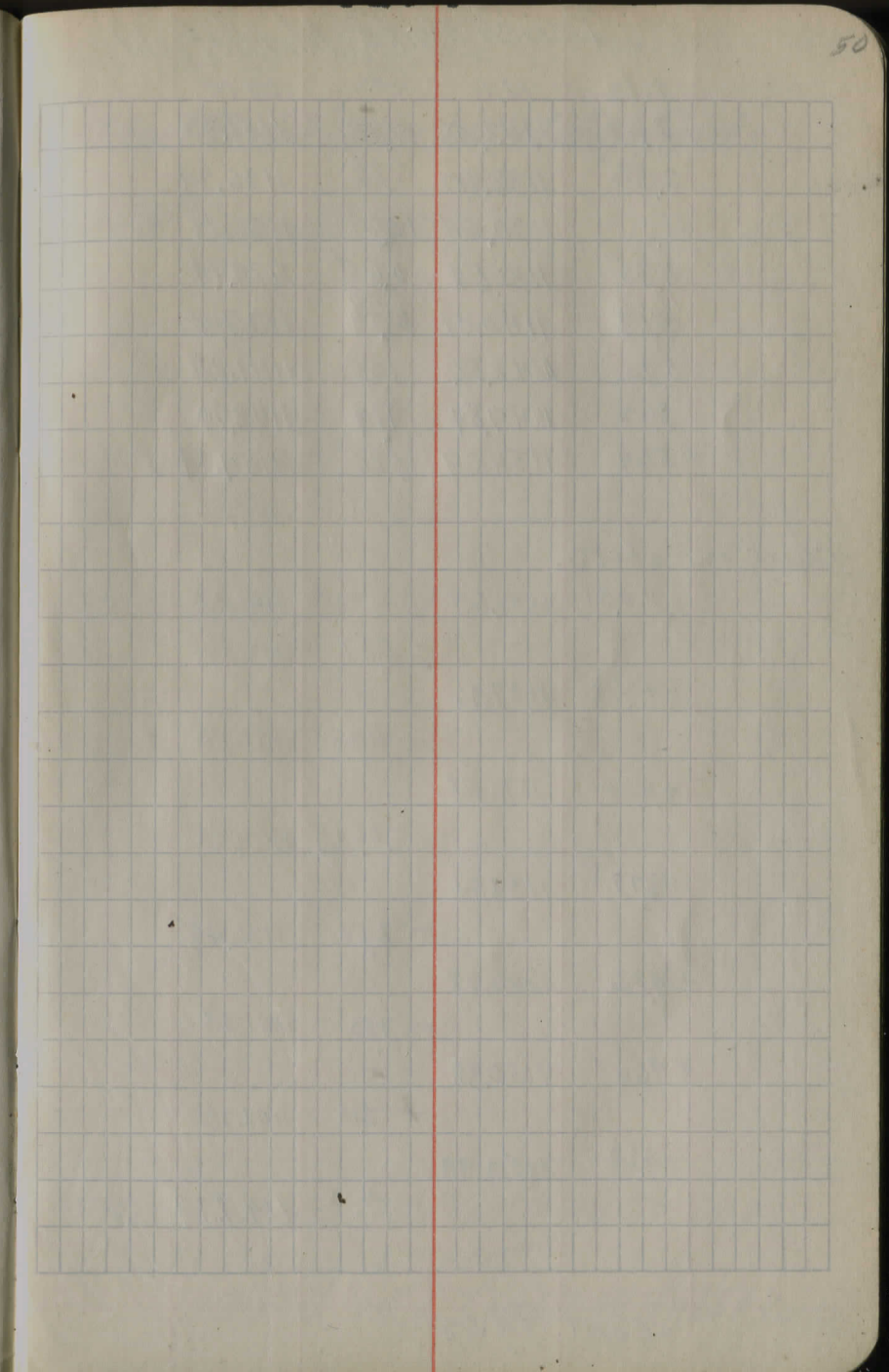
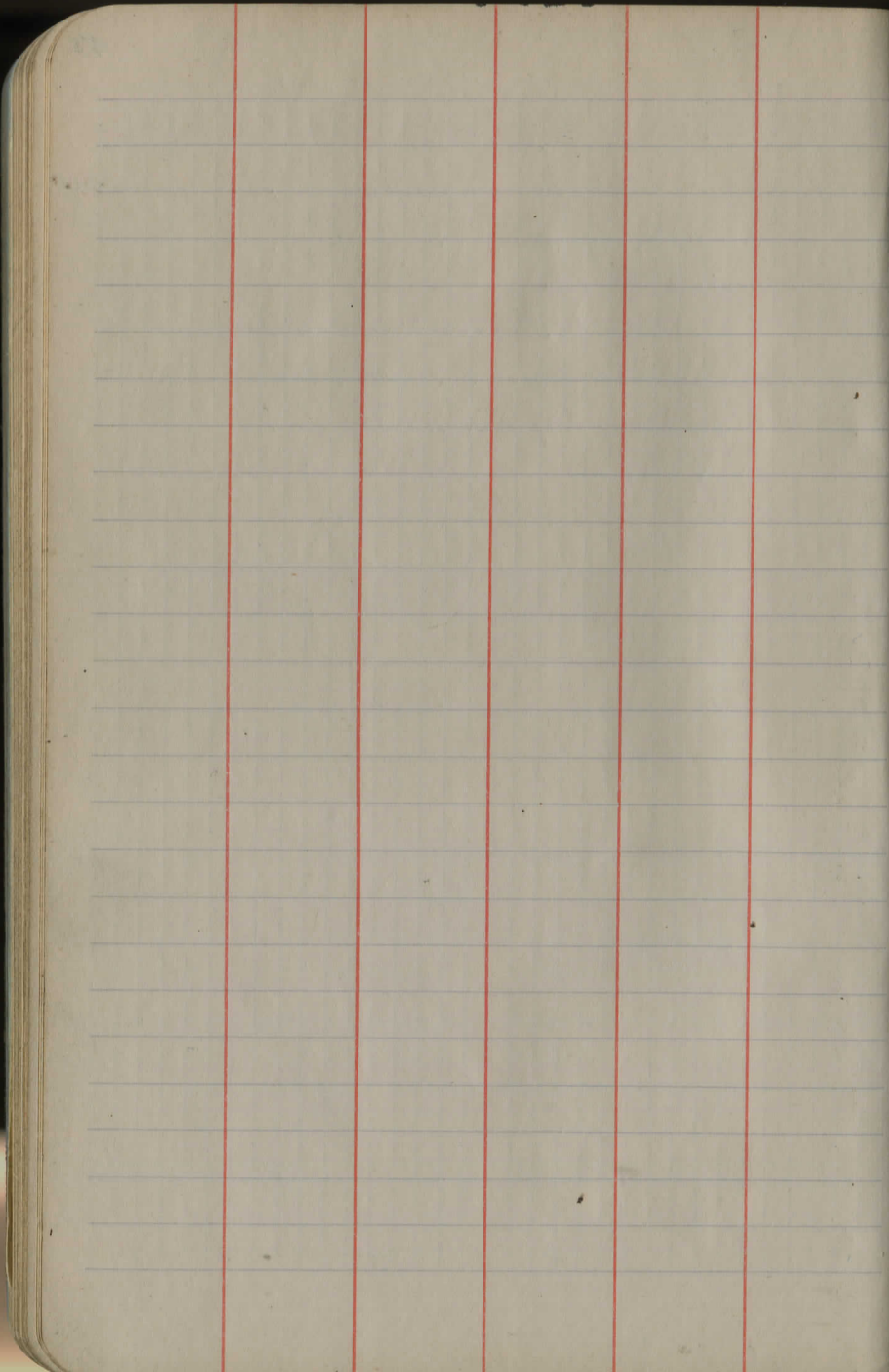
1162.14

$\frac{25}{98}$	$\frac{11}{90}$	$\frac{10}{100}$	93	$\frac{8}{97}$	$\frac{10-12}{10.0}$	$\frac{14}{86}$	$\frac{25}{78}$	
$\frac{25}{48}$	$\frac{15}{46}$	$\frac{11}{70}$	$\frac{9}{63}$	5.9	$\frac{8}{66}$	$\frac{9}{70}$	$\frac{13}{45}$	$\frac{25}{39}$
$\frac{25}{42}$	$\frac{16}{38}$	$\frac{12}{67}$	$\frac{11}{63}$	5.5	$\frac{7}{62}$	$\frac{9}{63}$	$\frac{12}{34}$	$\frac{25}{23}$
$\frac{25}{82}$	$\frac{15}{77}$	$\frac{12-10}{125}$	$\frac{9}{122}$	120	$\frac{6-7}{123}$	$\frac{11}{110}$	$\frac{16-25}{71}$	
$\frac{25}{63}$	$\frac{15}{75}$	$\frac{12-11}{93}$	$\frac{10}{85}$	7.8	$\frac{7}{81}$	$\frac{9}{86}$	$\frac{15}{40}$	$\frac{25}{37}$
$\frac{25}{130}$	$\frac{11}{113}$	$\frac{10-8}{117}$	$\frac{6}{113}$	11.0	$\frac{18}{10.8}$	$\frac{19-22}{114}$	$\frac{24}{106}$	$\frac{30}{78}$
$\frac{100}{88}$			$\frac{8}{187}$	2.9	$\frac{6.5}{86}$	$\frac{100}{86}$	$\frac{500}{123}$	
$\frac{25}{52}$	$\frac{18}{62}$	$\frac{16}{59}$	$\frac{9}{40}$	3.8	$\frac{6}{43}$	$\frac{10-14-25}{58}$		
$\frac{25}{62}$	$\frac{20}{67}$	$\frac{18}{73}$	$\frac{15}{72}$	FL 5.1	$\frac{8}{76}$	FL 7.6	$\frac{25}{76}$	
$\frac{25}{55}$	$\frac{19}{60}$	$\frac{13-15}{67}$	$\frac{13}{58}$	5.5	$\frac{6}{59}$	$\frac{8}{69}$	$\frac{10}{66}$	$\frac{25}{56}$
$\frac{25}{49}$	$\frac{19}{51}$	$\frac{16}{61}$	$\frac{12}{46}$	4.3	$\frac{5}{47}$	$\frac{9}{66}$	$\frac{11-25}{61}$	
$\frac{25}{70}$	$\frac{19}{66}$	$\frac{16}{76}$	$\frac{12}{62}$	6.0	$\frac{5}{64}$	$\frac{9-10}{7.7}$	$\frac{13}{63}$	$\frac{25}{62}$
$\frac{25}{57}$	$\frac{19}{57}$	$\frac{16}{68}$	$\frac{12}{52}$	5.0	$\frac{20}{63}$	$\frac{25}{65}$		

B.M. #19 = 244+0







+ Bench Marks Middlefield -

	H.I.	-	BM
223	1143.56	722	1141.33
256	1138.90	722	1136.34
	1130.64	1261	1126.29
+ 435	1130.64	0.65	1129.99
1012	1140.01	3.59	1136.42
590	1142.32	105	1141.27
862	1149.89	119	1148.70
- 569	1154.39	520	1149.19 BM.

check on above.

+031	1141.64		1141.33
		- 527	1136.34
+162	1137.96		
		- 11.68	1126.28 ✓
+430	1130.58		
		- 0.61	1129.97 ✓
+877	1138.74		
		- 2.28	1136.46
+632	1142.78		
		- 1.50	1141.28
+960	1150.88		
		- 2.16	1148.72
+527	1153.99		
		- 4.80	1149.19 1149.33

Cont. Pg 52

Fram's Cor. Rd. Graber Passbeck Hill 127-35 51

= U.S. Gort Bench Town Hall Middlefield

Top Rail, ^{BBORE.} S. Sidewalk

6+67 W. High St.

USGS Bench Md fld.

Top Rail

#21
 = BM Sta 6+67 West High St. Imp.
 Spiker missing + Reset.
 12" Maple 29" L. (6+67 W High St Imp)

+	H.I.	-		
+ 480	1153.99		1149.19	BM
		-1.00	1152.99	
+768	1160.67	324	1157.43	
395	1161.38			
		726	1154.12	
694	1161.06			
		- 313	1157.93	
1243	1170.36			
		506	1165.30	Side Shot
		9.76	1160.60	
- 256	1163.16			
		439	1158.77	
450	1163.27			
		019	1163.08	
630	1169.38			
		032	1169.06	
500	1174.06			
		1192	1162.14	
206	1164.20			
		170	1162.50	
9.88	1172.38			
		0.22	1172.16	
10.65	1182.81			
		743	1175.38	
0.88	1176.26			
		6.2	1170.1	1170.4565

Cont Pg 53

X Rd + Route 87

Warm
Cloudy
5-28-35 52
Graber
Rossbeck
Hill

N.W. Cor. ^{To/} W. HW. 1st Culv. So. of # 87 (w. High St.)

N.W. Cor. Coffe Blk. 20' L. Front J.H Byler House

N.E. Cor. ^{w. HW.} Culvert with pipe Rails

#20
B.M. Spike ^{Root} 48' Map 20' E & 400' ± S. of Dan Gingrich Ho.

#19
B.M. Spk Root 12' Elm 30' N of S. Corpl. & 20' W of E. 244+0

on gr. X Rd & both ways

✓	L	H.I.	—	
		1176.26		
			9.21	1167.05
	9.21	1176.26		
			8.20	1168.06
	6.75	1174.81		
			3.24	1171.57
	3.69	1175.26		
			0.00	1175.26
	11.60	1186.86		
			0.62	1186.24
	8.63	1194.87		
			4.72	1190.15 Side Shot
			3.39	1191.48 TP
	11.76	1203.24		
			0.15	1203.09
	6.50	1209.59		
			0.41	1209.18
	10.49	1219.67		
			1.40	1218.27
	9.55	1227.82		
			2.53	1225.29 ← BM
	2.52	1227.81		
			0.47	1227.34
	10.28	1237.62		
			0.71	1236.91
	7.73	1244.64		

Cont Pg 54

#18 {Sta 231+63}
 Old BM. 18" Elm. SW X 1st X Rd S. of Corp L.

NE Cor. W. H. Wall 1st Culv. S of 1st X Rd.

#17
 BM 18" Hick. 50 West & Spk in Root 222+36

SE Cor. Conc Step. outside S of door

#16 206+15
 BM. Spk Root 22" Map 30' W & 400' S. of School Ho.

#15 194+27
 Spike Root 24" Map 25' W of & S of tree of Group of 4.

	124464		
		502	1239.62
092	124054		
		475	1235.79
684	124263		
		799	1234.64 Side Shot
		022	124241
11.89	1254.30		
		014	1254.16
999	1264.15		
		104	1263.11
10.47	1273.58		
		320	127038
852	127890		
		329	127561
324	127890		
		805	127085
346	127431		
		1014	1264.17
360	1267.77		
		81	1259.6
		351	1264.26
191	1266.17		

± USGS
1261. Map.

Cont Pg 55

5-29-35 Graber 54
Rosback

#14
B.M. Spk Root 24" Map. 25W of 50'S of Wire F. East
Sta 181+64

N.W. Cor. W. Headwall Conc Culu. 100'S Enos Miller Mailbox

on Boulder

#13

B.M. Hor. Spk Es. 20" Oak 30' W of E (opp 3 pines)
161+24

X E of E Rd So. Line Mid by Tap. (on ground)
= B.M. Spk Root 18" Map 25'S. of E. E+W Rd + 50' W. out E.
#12 147+63

+	H	-	
	126697	7.76	1258.41
692	126533	4.02	1261.31
475	126606	5.39	1260.67
226	126293	10.13	1252.80
121	125401	11.50	1242.51
050	124301	0.52	1242.49
1195	125444	0.61	1253.83
061	125444	5.85	1248.59
695	125554	0.00	1255.54
892	126446	1.95	1262.51 BM
379	126630	7.77	1258.53
311	126164	7.71	1253.93
156	125549	3.96	1251.53
396	125549		

Cont Pg 56

#11

BM Spk 18" Map Root 22'E & 100' S. of S. Pine 136+20

#10

BM E Root 15" Map 25' W & 225' S of Culvert
Sta 120+70

#9

Spike Root SE S. 24" Map 25' W & 109+55
5th tree S. of Tile School H. Lot.

#8

BM. Spk SE Root 18" Map 25' W & 250' S. Red Barn.
98+30

+	HI	-	
	1255.49		
		10.55	1244.94
210	1247.04		
		8.31	1238.73
183	1240.56		
		8.63	1231.93
213	1234.06		
		2.85	1231.21
153	1232.74		
		11.55	1221.19
210	1223.29		
		3.22	1220.07
		0.48	1222.81
591	1228.72		
		5.92	1222.80
230	1225.10		
		10.85	1214.25
1061	1224.86		
		3.77	1221.09
814	1229.23		
		3.86	1225.37
386	1229.23		
		7.50	1221.73
632	1228.05		
		1.84	1226.21
975	1235.96		
		2.98	1232.98

Cont Pg 57

#7
BM, Spk. E Root 24" Forked Map Sta. 84+90
20' W. of E

SE Cor. W. H. Wall Culv. (80+60)

NE Cor. W. H. Wall Culv. Sta 69+00

#6
Spk Root 15' Map 20' W of E Sta 66+70.

#5
BM Spk Root 30" Map 25' W of E Sta 51+85.

	HI	-	
172	1234.70		1232.98
		1136	1223.34
028	1223.62		
		980	1213.82
153	1215.35		
		1278	1202.57
209	1204.66		
		396	1200.70
396	1204.66		
		873	1195.93
199	1197.92		
		535	1192.57
290	1195.47		
		909	1186.38
230	1188.68		
		255	1186.13
255	1188.68		
		1128	1177.40
134	1178.74		
		1148	1167.26
070	1167.96		
		934	1158.62
971	1168.33		
		123	1167.10
11.80	1178.90		
		0.33	1178.57
717	1185.74		

Cont Pg 58

5-29-35

57

#4

BM Spk Root 20' Map. 3rd tree fr. N. end. of Row.
Sta 37+94 20' W &

#3

Spk root Quadruplet Elm. 20' W & 75' N. of House
Sta 21+40

N.E. Cor. W. H. Wall Conc Colv New. 4'x7' 13+0 ±

BM checks

6-1-35

	HI			
409	1163.55		1159.46	
11.15	1170.97	373	1159.82	HW
12.29	1182.89	0.37	1170.60	
3.37	1185.26	1.00	1181.89	
		1.84	1183.42	
2.40	1161.86		1159.46	
10.39	1164.16	809	1153.77	
12.39	1172.14	4.39	1159.75	
1273	1184.87	0.00	1172.14	
		1.55	1183.32	1183.28
1239	1170.99		1158.60	
		248	1168.51	
		1159	1159.40	
11.47	1170.07		1158.60	
1173	1180.42	158	1168.49	
9.95	1189.25	0.92	1179.30	
		316	1189.09	1186.13
318	1189.31		1186.13	
880	1196.31	180	1187.51	
		3.58	1192.73	
4.00	1268.26		1264.26	
926	1276.60	0.92	1267.34	1267.31
4.78	1275.92	5.46	1271.14	
		0.31	1275.60	1275.61

BM #1

BM #2

BM #1

BM #2

H. wall Bet #2 + #3

BM #3

BM #12

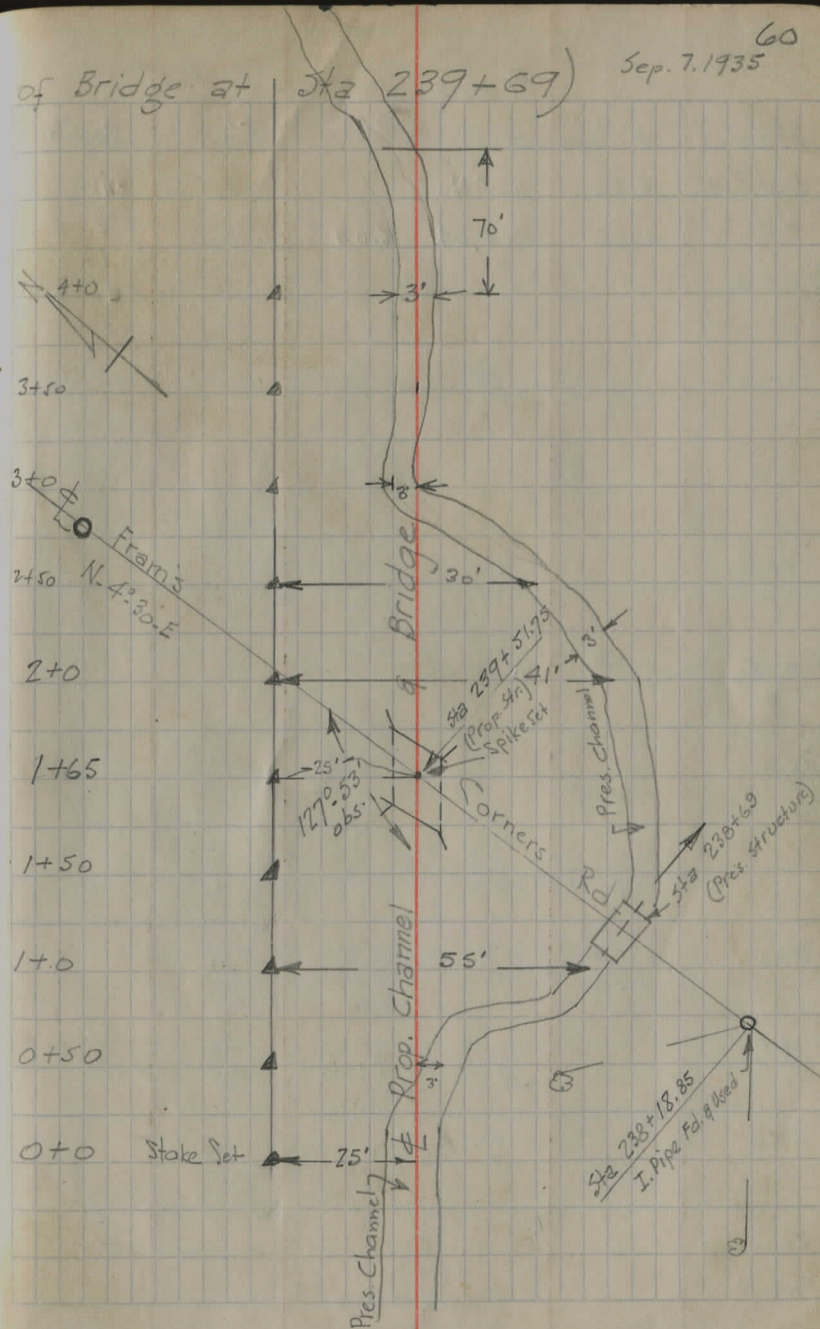
top boulder check

BM #13

Fram's Corners Rd - (Relocation

of Bridge at Sta 239+69) Sep. 7. 1935 ⁶⁰

Note: Stakes Set on 75' offset (Left Side)



Sta	+	H.I.	-	Elev	Remarks
B.M. #19	3.26	1165.40		1162.14	Spike Root
T.P.	4.68	1164.04	6.04	1159.36	12" Elm
0+0					20 ft ± Sta 247 to
0+50					
1+0					
+50					
+65	±	Road			
2+0					
+50					
3+0					
+50					
4+0					
5+0					
7+0 ±					

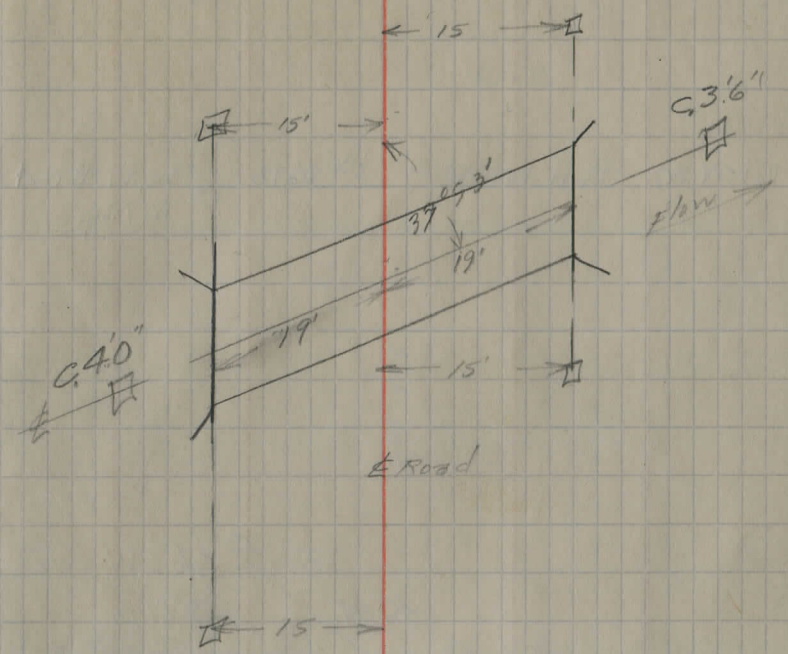
Relocation of Bridge of Channel at Sta 239+69

North	± (Prop. Channel)		South
	$\frac{4.7}{25'}$	$\frac{5.0}{11'}$	$\frac{5.6}{17'}$
		8.2	$\frac{5.0}{25'}$
	$\frac{5.1}{25'}$	$\frac{5.8}{6'}$	7.2
		3' (ch.)	$\frac{6.5}{8'}$
			$\frac{6.2}{25'}$
	$\frac{4.9}{25'}$	4.8	$\frac{5.1}{25'}$
			$\frac{8.4}{5' (ch.)}$
	$\frac{5.9}{25'}$	$\frac{5.9}{10'}$	4.5
			$\frac{4.2}{25'}$
		4.5	(Sub grade +1.00)
	$\frac{6.0}{25'}$	$\frac{6.3}{18'}$	$\frac{5.4}{14'}$
			6.3
			$\frac{6.3}{9'}$
			$\frac{8.9}{16' (ch.)}$
			$\frac{7.1}{25'}$
	$\frac{6.1}{25'}$	$\frac{6.7}{15'}$	$\frac{6.3}{2'}$
			7.1
			$\frac{8.2}{5' (ch.)}$
			$\frac{7.3}{11'}$
			$\frac{3.0}{25'}$
	$\frac{6.7}{25'}$	$\frac{5.7}{14'}$	$\frac{7.3}{7' 3' (ch.)}$
			7.2
			$\frac{2.4}{10'}$
			$\frac{0.2}{25'}$
	$\frac{7.9}{25'}$	$\frac{6.1}{20'}$	$\frac{5.7}{8' 2'}$
			8.8
			$\frac{0.5}{20'}$
	$\frac{7.3}{25'}$	$\frac{6.4}{6'}$	9.1
			$\frac{1.2}{12'}$
			1154.7
			9.3
			1153.5
			10.5

Location of Bridge on Franks Cor. S. Road

9/11/35 Richey Gold. 62

BM #19	3.02	1165.16		1162.14
	4.49	1164.14	5.51	1159.65
±Grate				1161.50
Flow		9.14		1155.00
±Stake R		5.64		C 3.5
±Stake L		5.14		C 4.0
Sta 4 Flow		9.5		54.6
Top Stake Sta 3		6.85		1157.29
	5.06	1162.35		
4+70 flow & in Channel		7.1		55.2
6+60 Bridge		8.7		53.6



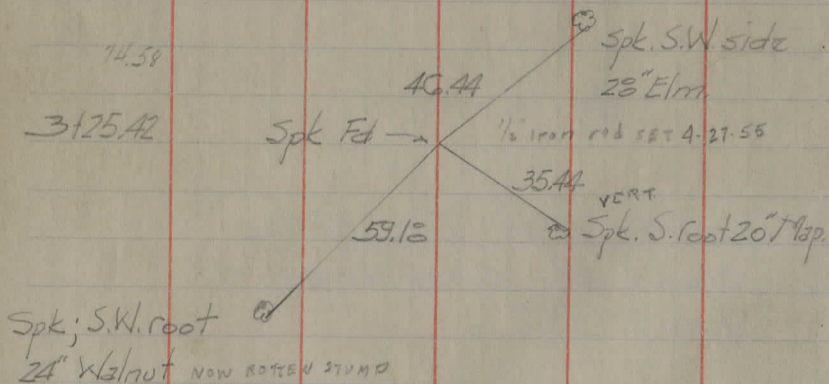
Concrete Slab Top. Bridge
 Span 10' Clear Height. 4'6"
 Skew 37°53'

89 60
 37 53
 52 07
 26.03

5/15/40 Panoloy - Richards - Hosford
 TROY - PARKMAN CENTER ROAD

T.H.#207
 NASH Rd

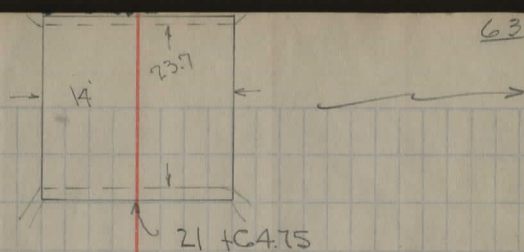
16+07.50 Bolt set $\pm 90^\circ$ 26.78 Spk W E root
 20" Map



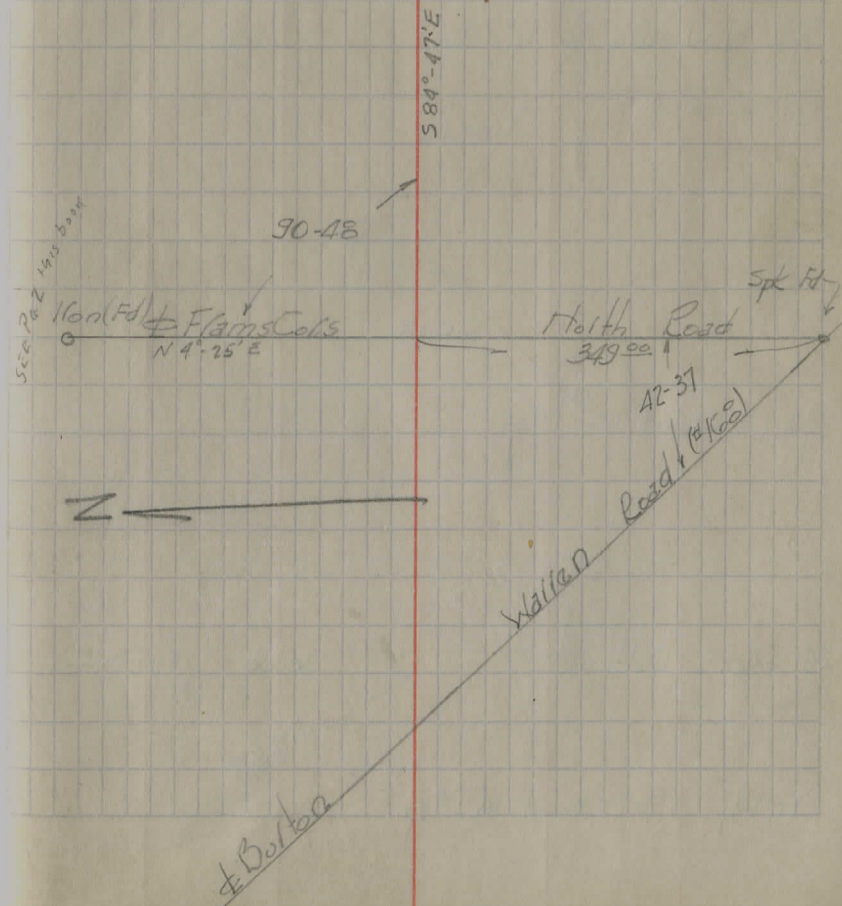
0+0

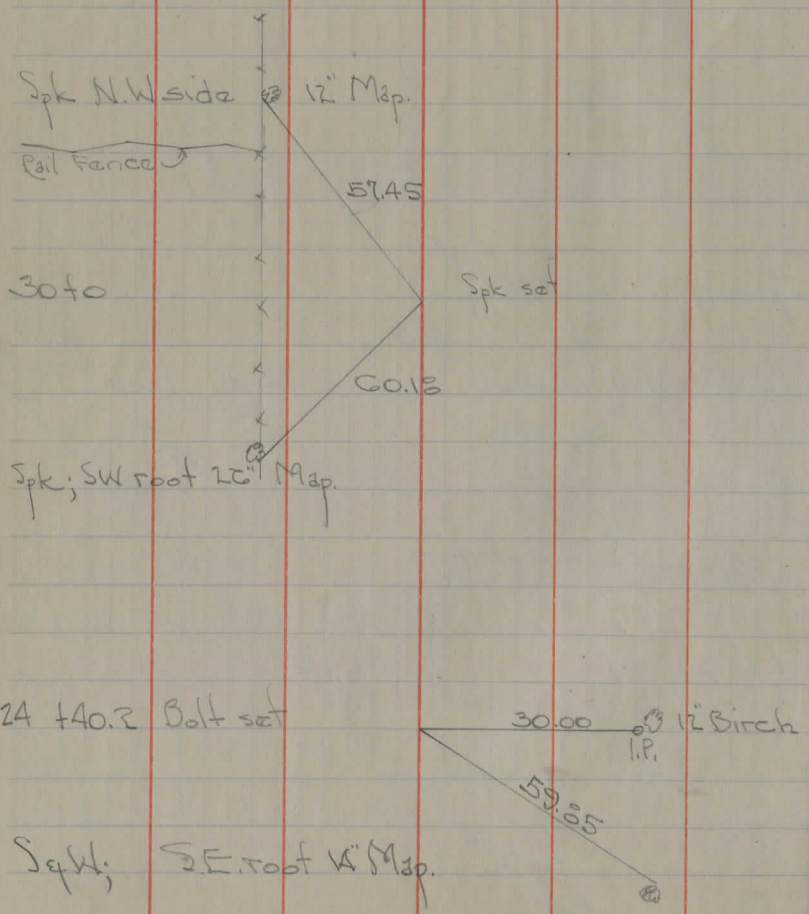
Spk set

Steel Truss
 Stone abuts-wings
 " " pool



P.O.T.





P.O.T.

517.40 Cloudy 42° E. M. I. Roy - Richards - Hasford

Labels	Troy - Parkman	Center	Road
B.M.	0.20	1130.88	12.05
18			
17			
16		1142.91	1142.91
T.P.	0.00	#47.73	7.06 #47.73
15			
14			1144.71
B.M. Set		5.26	#44.53
13			
12			
11			
10		1149.97	1148.24
T.P.	1.73	#49.79	12.65 #48.06
9			
8			
7			
6			
5	0.25	1160.89	
T.P.	0.07	#60.71	12.17 1160.64
4 to			
3425.42			
T.P.			13.11 1159.70 (1159.71)
T.P.	0.03	1172.81	12.53 1172.78
B.M.	2.03	1185.31	1183.88

Iron bar between roots 20" Map. Sta. 18179
± 28' Rt. (Also Spk N.E. Root)

10.6	32.3
6.5	36.4
2.0	40.9

6.1	43.9
3.3	46.7

Spk S.E. Root 22" Map. 12+88 20' Lt

5.7	44.3
5.7	44.3
5.1	44.9
3.6	46.4

12.8 48.1

11.0 49.9

8.4 52.5

5.2 55.7

1.5 59.4

10.4 62.4

8.0 64.8

N.E. & W. H. wall 1st Col'd Frames & N Road

Spk E. Root 15" Map 3+85 Frames & S North Road

H. I.

6.12

6.12	1150.83	1.00	1144.71
12.45	1162.28	2.57	1149.83

1159.71

2.56

59.97

T.P.	45	1149.64	12.44	1162.53	59.71
------	----	---------	-------	---------	-------

B.M.	5.56			1144.53	1144.53
------	------	--	--	---------	---------

T.P.	0.46	1150.09	0.73	1149.63
------	------	---------	------	---------

T.P.	2.49	1145.85	12.44	1143.36
------	------	---------	-------	---------

PRZ B.M.	3.09			1130.79	31.10
----------	------	--	--	---------	-------

T.P.	0.47	1133.88	6.65	1137.41
------	------	--------------------	------	--------------------

T.P.	5.17	1132.58	0.14	1127.23
------	------	--------------------	------	--------------------

T.P.	11.24	1132.40		1132.44
------	-------	--------------------	--	--------------------

T.P.	11.24	1143.68	0.99	1132.26
------	-------	--------------------	------	--------------------

T.P.	12.61	1143.50	0.05	1141.69	B.M.
------	-------	--------------------	------	--------------------	------

1155.07

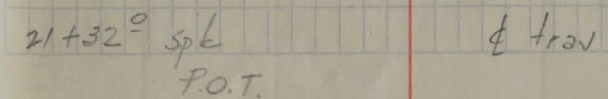
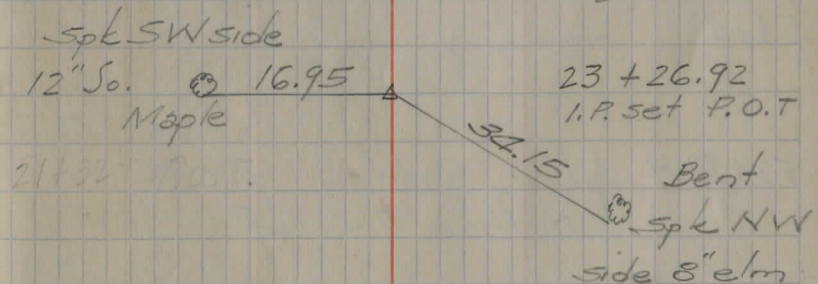
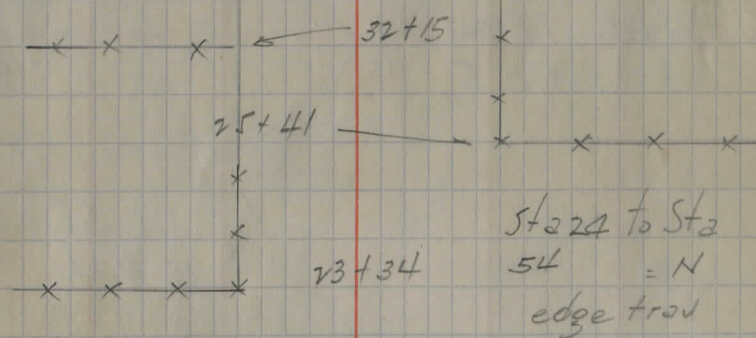
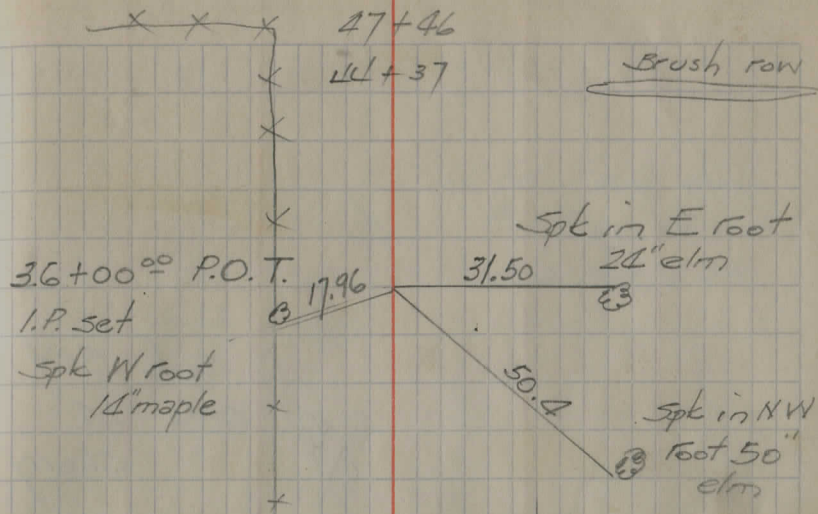
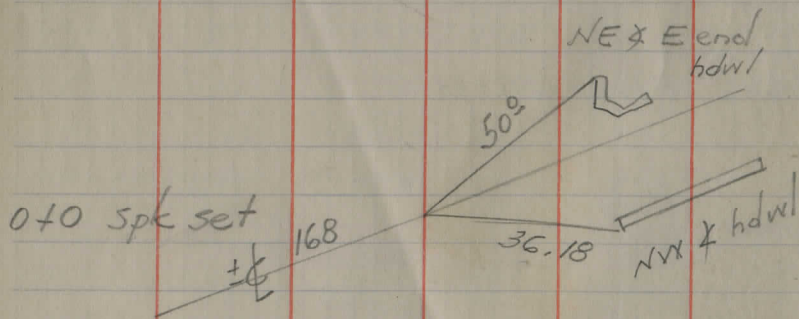
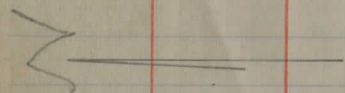
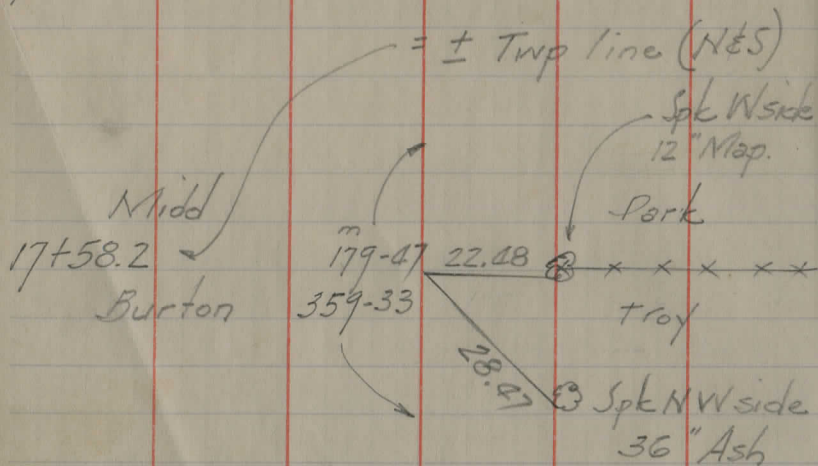
55.25

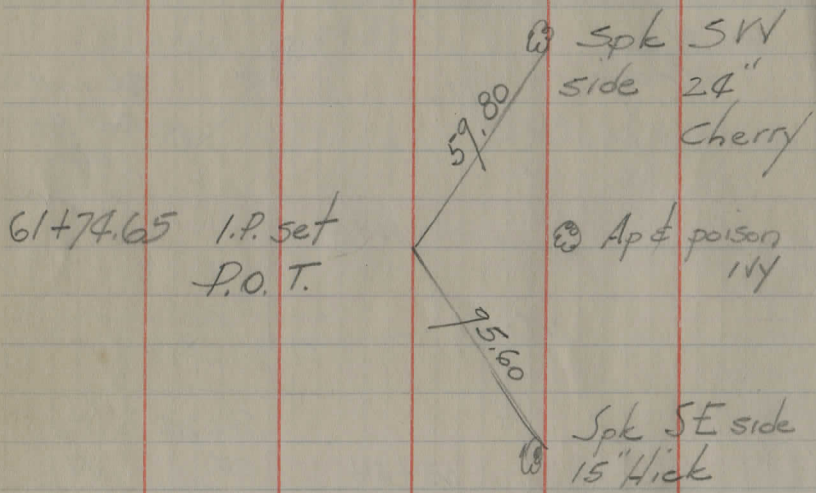
25" Maple rd' Lt str- 12+88

Most Estly x of N. Abut.

SHEDD ROAD

9-13-51 Maynard Pom Bender

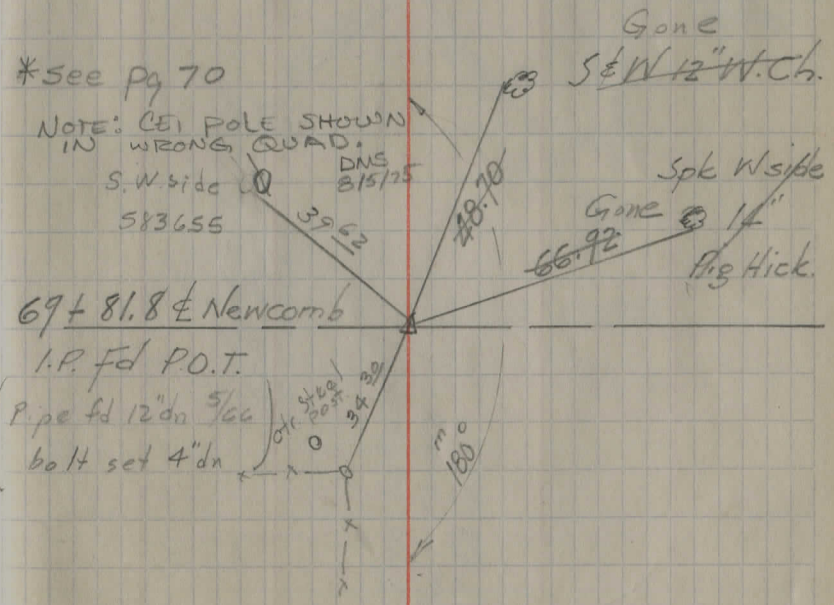




58+43 ~~xxx~~

52+72.9 Spk in N ditch P.O.T
Nothing for ref.

I.P. Fd Field book
148 pg 42
Sta 73+74.54

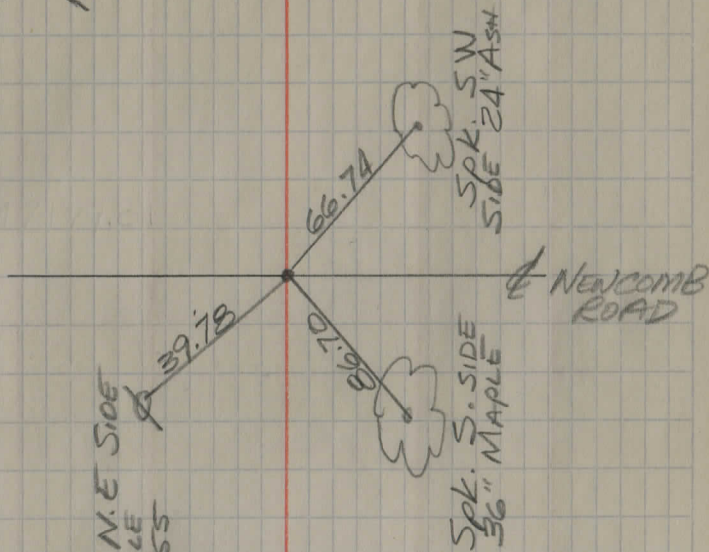
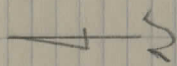


CEI Co. 7/25/75

L. STOFAN

F. LOUDER

R. HEJOUK



BOLT N.E. SIDE
CEI PALE
583655

39.78

01.90

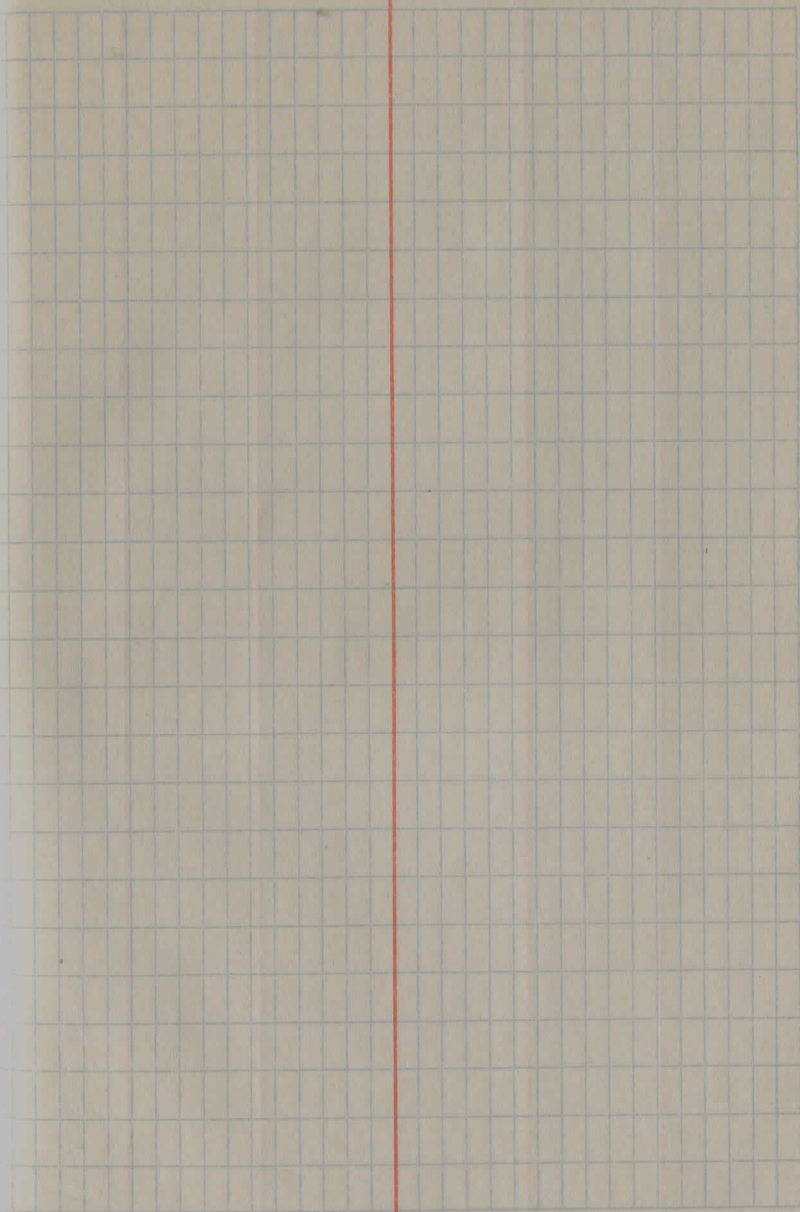
SPK. S. SIDE
36" MAPLE

NEWCOMB ROAD

SHED ROAD

STA. 147+79.01
BOLT FOUND
6" Down

DMS
8/5/75



BM. Burton Parkman Rd 93+45
 Bent Spike 12" Map 25 L. & 1210, 25

X Road = Sta 0+00 = sta 68 on
 Burton Parkman Rd,

Sta 61 or 62 Hickory - 1159.51
 Near prop line S. of House on top hill.

Mid fld Vill Town Hall USGS - 1141.33

(Mid fld. W. High St. Imp.
 12" Map 29' L. & Sta 6+67 - 1149.33
 Spike gone Replaced 5/27-35 - CC9

Ground 1st X Rd 1000' S of Corp L. 1170
 " 2nd X " (S. L. Mid fld Turp) 1261

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
 of Intersection or I. P. = $23^{\circ} 20'$ to the R. at Station
 542+72.

Ext. in Tab. IV opposite $23^{\circ} 20' = 120.87$
 $120.87 \div 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20' = 1183.1$
 $1183.1 \div 10 = 118.31$.

Tab. V. correction for A. $23^{\circ} 20'$ for a 10° Cur. = 0.16
 $118.31 + 0.16 = 118.47 =$ corrected Tangent.

(If corrected Ext. is required find in same way)
 Ang. $23^{\circ} 20' = 23.33^{\circ} \div 10 = 2.3333 =$ L. C.

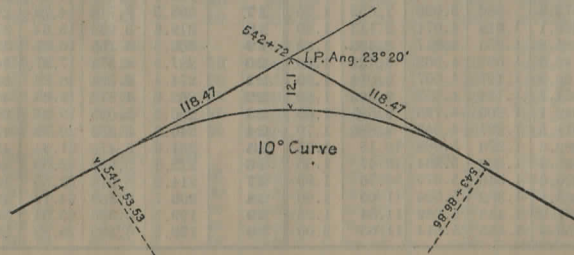
$2^{\circ} 19\frac{1}{2}' =$ def. for sta.	542	I. P. = sta.	542+72
$4^{\circ} 49\frac{1}{2}' =$ " " "	+50	Tan. =	118.47
$7^{\circ} 19\frac{1}{2}' =$ " " "	543	B. C. = sta.	541+53.53
$9^{\circ} 49\frac{1}{2}' =$ " " "	+50	L. C. =	2.33.33
$11^{\circ} 40' =$ " " "	543+	E. C. = sta.	543+86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^{\circ} \text{ Cur.}) = 139.41' =$
 $2^{\circ} 19\frac{1}{2}' =$ def. for sta. 542.

Def. for 50 ft. = $2^{\circ} 30'$ for a 10° Curve.

Def. for 36.86 ft. = $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve

(These tables are published in Field Books of
 KEUFFEL & ESSER CO., New York, N. Y.)



T. B. #130

St. 113+54⁸⁰

SpK, S. Side
CEI # 585530

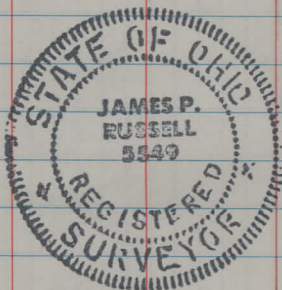
SpK S. Side C.E.I.

69⁶⁶

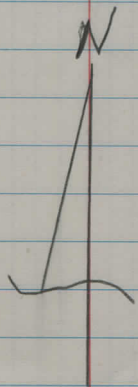
62°45'00"

SpK S. Side
Apr. 1 1987
replaced with 3/8" x 8"
SpK,

~~1/2~~ Patch Rd.



St 107+52²⁵



I.P

SpK N.W.
30" Maple

27⁵⁵

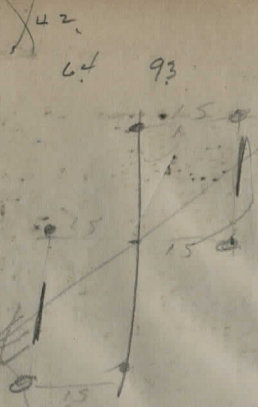
21⁹⁵

SpK.
30" Maple

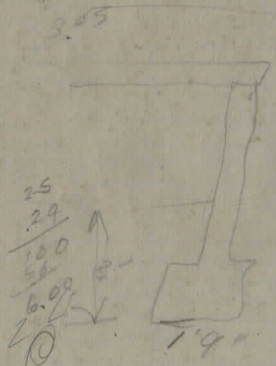
~~1/2~~ Newcomb Rd.

89-16-00 25 35
 178-32
 267-48
 357-04

173-10
 346-28
 159-29
 398.83
 61.37
 443.255

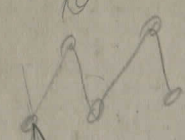


10560
 2001
 10561
 836



1204.91
 111.57
 1193.40

82-39
 177-21
 90-46
 76-35



57.53
 48.60
 2.93

PLEASE RETURN TO
 GAUGA COUNTY ENGINEER
 DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 12 FEET WIDE, SIDE SLOPES 1 1/2 TO 1
 FOR SUBSTANTIAL REBARRIMENT.
 CHARDON, O.

PHONE 250-7 X

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.

R.

