1519

FIELD BOOK

No. 385F

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter *"F"* to catalog number.

1-28-35 Loudon Brown Anderson another fellow. Indexed C.S.K.

Alignment of Road on north side of Mission Valley on center line as constructed.

S80°32'E ✓

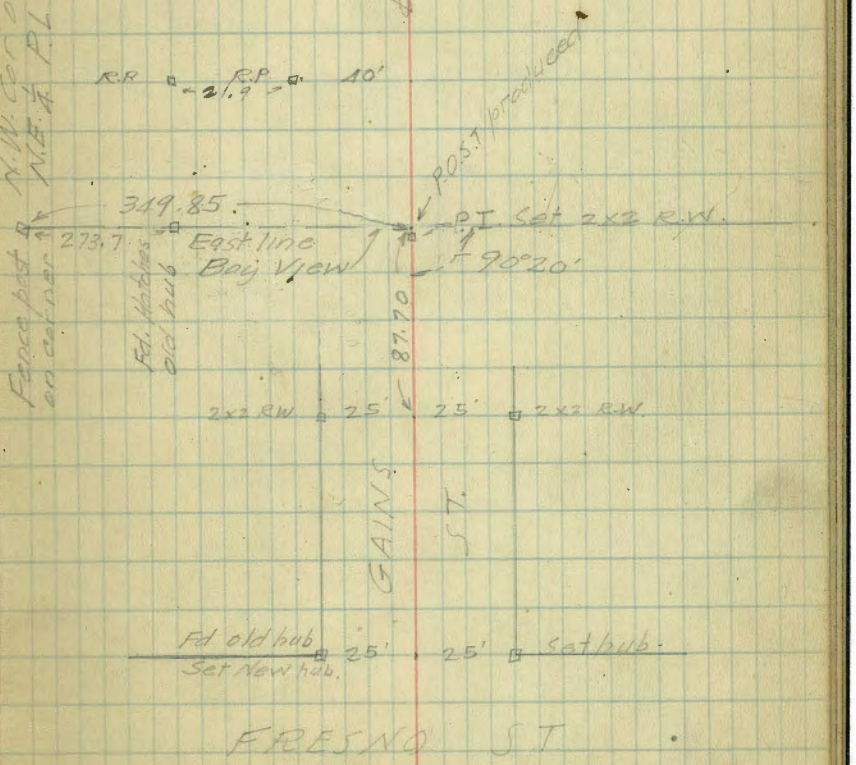
2+49.30 E.C. ✓

Wrong see 1334-1

0+80.00 B.C. ✓ Δ=24°15' Rt.
R=400
T=85.94 ✓
L=169.30

N75°13'E

0+00 ✓



S85°37'30"E ✓

16+04.81 E.C.

15+36.14 Road crosses { West line of 1103 / East line of 1104 }

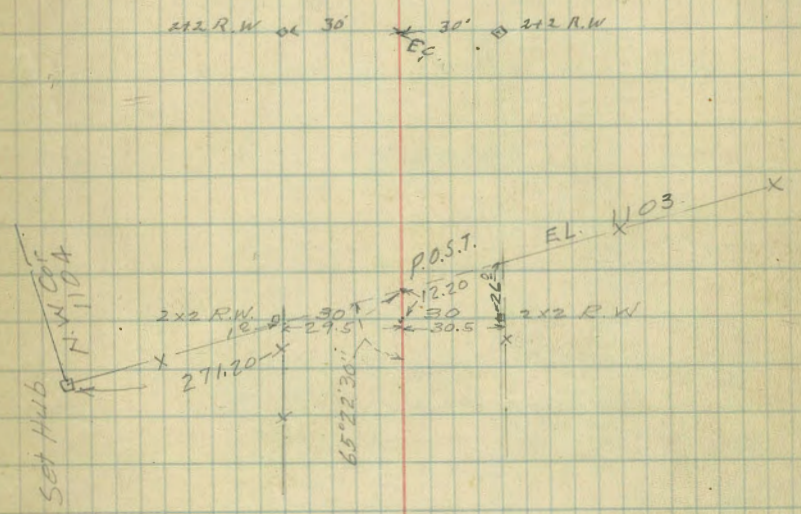
15+15.94 B.C.

Δ = 5°05'30" Lt.

R = 1000

T = 44.46 ✓

L = 88.87



26+00

25+00

24+00 N80°57'30"E ✓

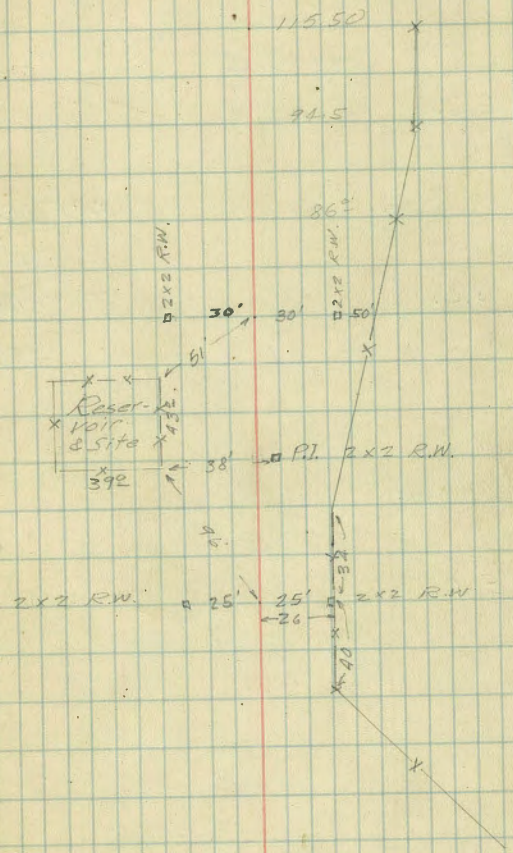
23+79.99 E.C.

22+15.99 B.C. Δ = 13°25' Lt

R = 700

T = 82.33 ✓

L = 163.91



34+00

33+00

N72°12'E ✓

32+91.25 E.C.

32+00

Δ 15°25' Rt.
R 500
T 67.68 ✓
L 134.55

31+57.32 B.C.

31+00

30+00

N56°47'E ✓

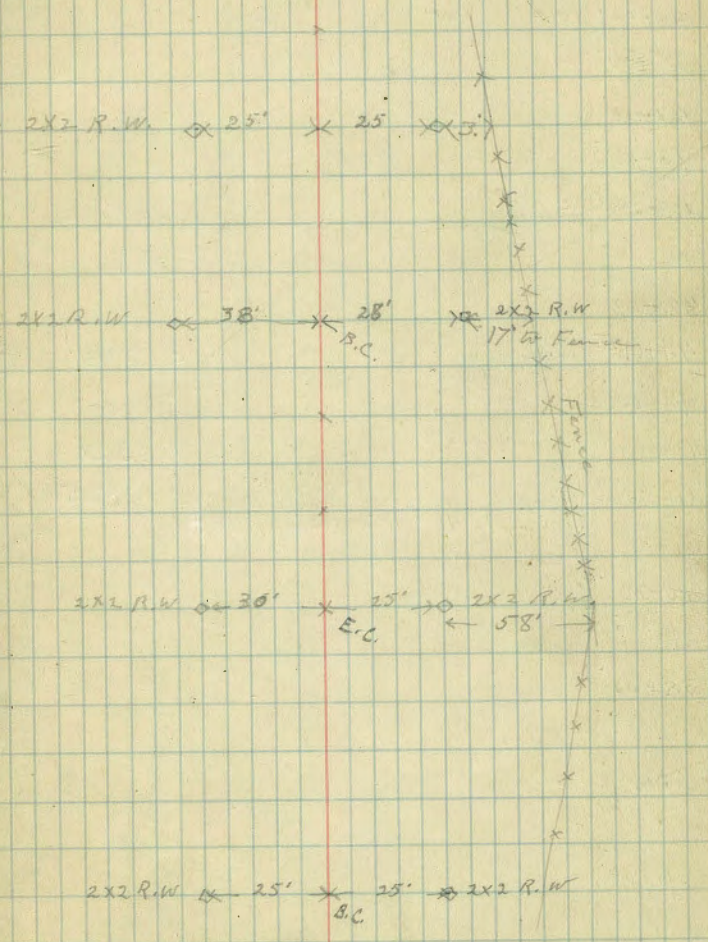
29+20.64 E.C.

29+00

28+00

27+09.68 BC

Δ = 74°10'30" Lt.
R = 500
T = 107.07 ✓
L = 210.96



52+00

51+00

50+00

49+00

48+00

47+00

46+00 N64°58'E ✓

45+26.03 E.C.

45+00

44+01.75 B.C Δ 7°14' Lt.

44+ R. 1000

43+ T. 63.21 ✓

42+25.83 {Road crosses East line 1104 & West line 1105} L 124.25

41+

40+

39+

38+00

37+00

36+00

35+00

16.5' x 23.5'

13.5 x 28.5'

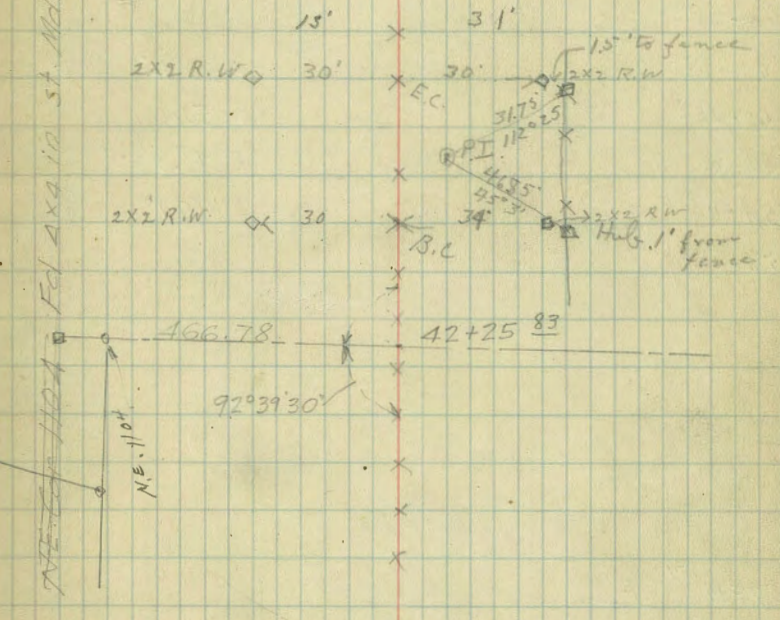
13.0' x 14.0'

15.5' x 13.5'

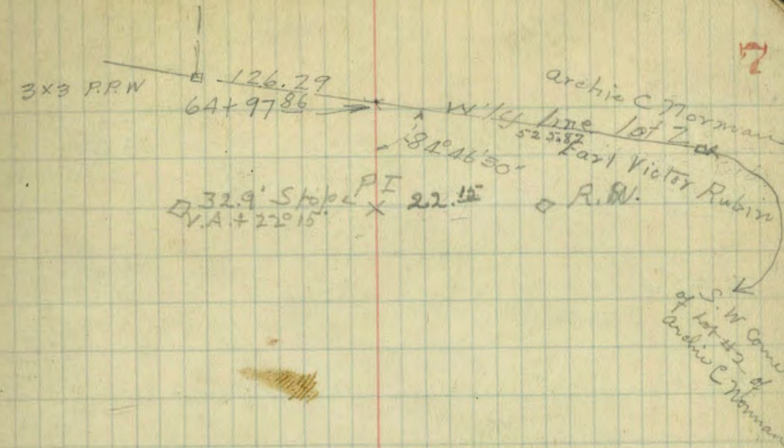
13.5' x 13.5'

13.5' x 13.5+31.5'

15' x 31'

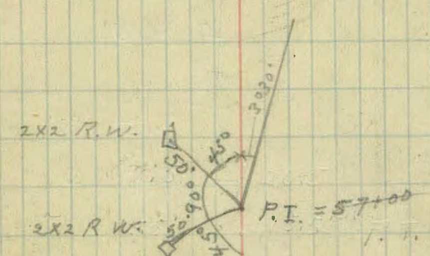


64+97^86	Road crosses line between lot 2 of Archie Norman & land of Earl Victor Rubin		
64+80^79	E.C.		
		Δ 5°30'	Lt.
64+32^88	P.I.	R.1000	
		T.48.03 ✓	
63+84^80	B.C.	L 95.99	
	S89°17'E ✓		
62+20^83	EC		
61+25		Δ 22°15'	Rt.
60+26^66	B.C.	R 500.	
60+00		T 98.34 (32)	
59+00		L 194.17	
58+00			
	N68°28'E ✓		
57+21^54	E.C. +71.54		
56+61^45	B.C. +69.45	Δ 3°30'	Rt.
56+00		R.1000	
55+00		T.30.55 ✓	
54+00		L 60.09	
53+00			
52+65			



2X2 R.W. 40.4 Slope V.A. 29° × EC 23.40 Slope V.A 8°15' R.W. 2X2

2x2 R.W. 33.8' Slope V.A 18°30' × B.C 29' Slope V.A +9°15' 2x2 RW



15.5'	13.5'
16.5'	11.5'
19.5'	7.5'
22'	8.0'
20'	9.0'

77+80.51 Fence line on West Lot 3
77+00 See page 29 no Coordinates Possible

76+00

75+00

74+00

73+00

72+58.45 Line between Lots 3 + 4 of E.W Morse's
72+00 Page 34 Coordinates

S87°36'30 E

71+23.34 E.C.

70+60.80 P.I. Δ 79°30" Rt
R. 1000
T = 62.69
L. 125.23

69+98.11 B.C.

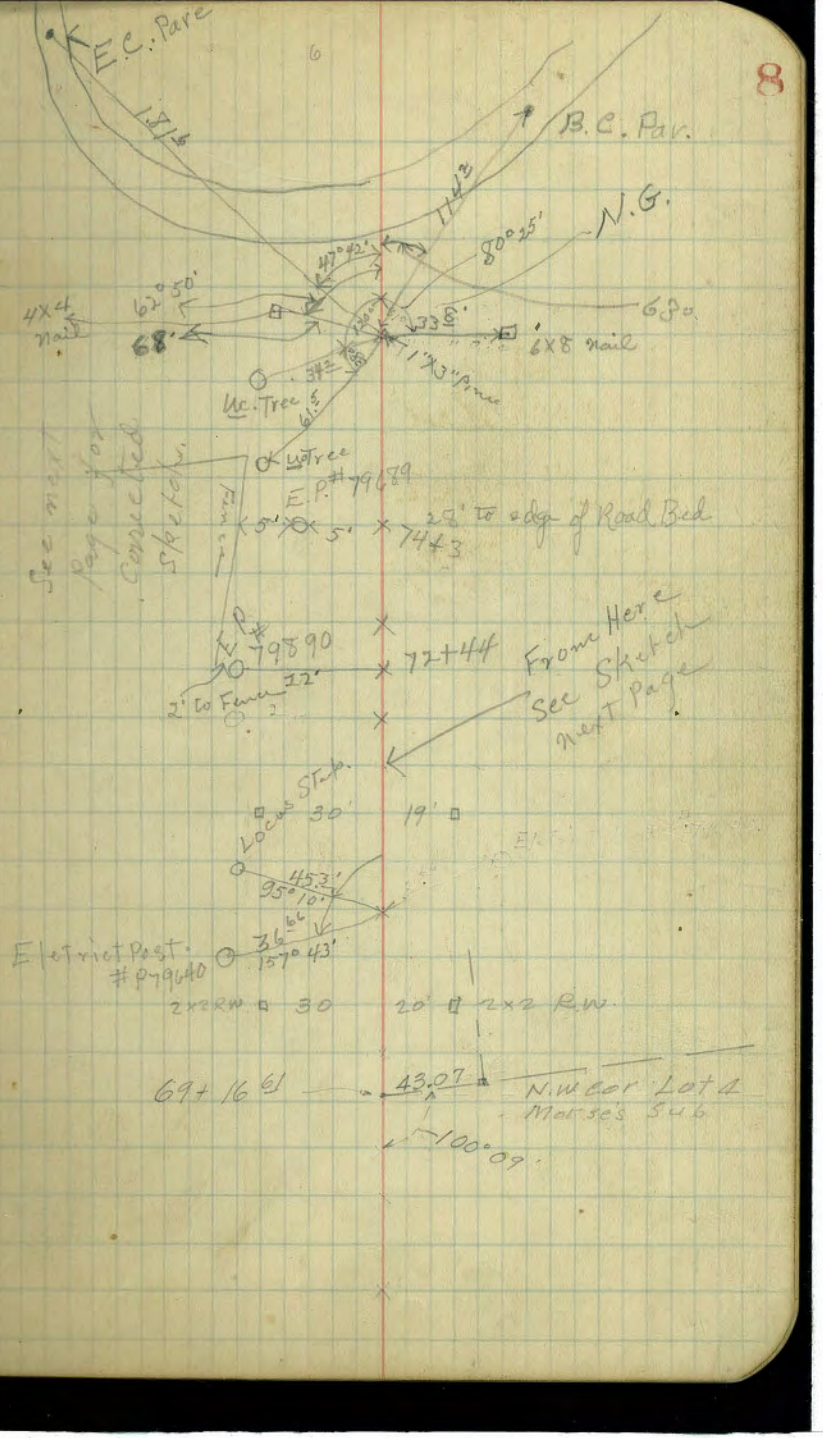
69+20.80 Line between Lot 4 + Woman's Lot 2
69+00 for Coordinates see Page 30 Plan Page 23

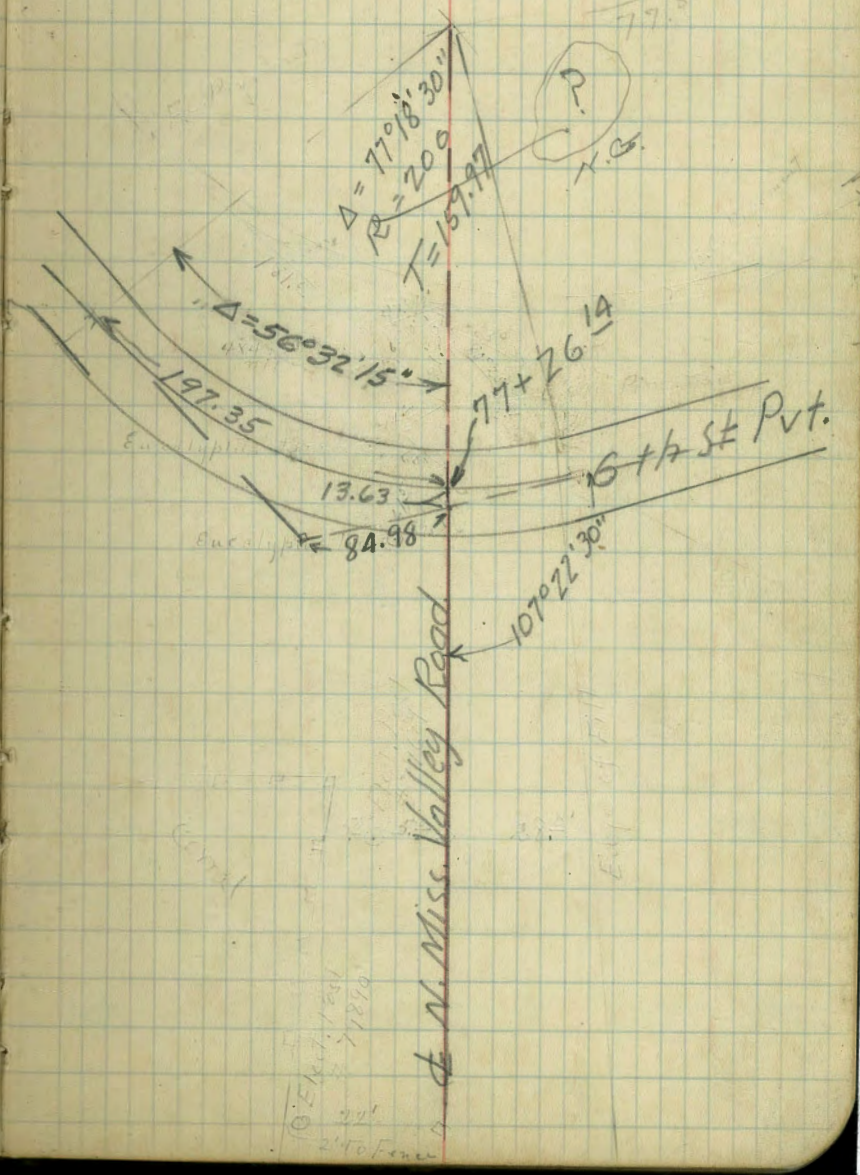
68+00

67+00

66+00

65+00 N85°13'E




Δ = 77°18'30"
R = 200
T = 159.97
P.C.
Δ = 56°32'15"
197.35
77+26.19
16th St Pvt.
13.63
84.98
107°22'30"
E. Miss. Valley Road

$86+97^{81}$ L. — $\Delta = 60°29'45''$ Rt.

$85+71^{36}$ E.C.

$\Delta = 32°11'30''$ Lt.
R = 600
T = 173.14
L = 337.11

$82+34^{25}$ B.C.

82+00

$81+06^{05}$ Line between Scripps + Ew Mouses Sub. Crosses road

81+00

$80+84^{55}$ Line between lots 3+4 E.W Mouses Sub + Scripps

80+00

$79+23^{49}$ E.C.

79+00 (See P. 9) $\Delta = 56°32'15''$ Rt.
R = 200

78+00

L = 197.35

$77+26^{14}$ P.O.C. — ∠ Lt. & Curve Rt.

□ 36' 25' □ 2x2 R.W

2x2 RW. □ 60 25 □ 2x2 R.W

98+00

97+00

$\Delta = 63°04'30''$ Lt.

R = 500

T = 306.85

L = 550.44

96+00

95+19.75 B.C.

95+00

94+00

93+00

92+00

91+00

90+00

89+00

88+00

87+00

PI. 2×2 R.W.

50 25' 2×2 R.W

95+19.75
306.85
98+26.60

109+00

108+00

107+00

+31[o] L   Δ = 6°26' Rt.

106+00

105+00

104+00

103+00

102+00

101+00

100+70[19] E.C.

100+00[50] {Road crosses into Alfa Grants
from Hazzards land

100+00

99+00

New fence ☐   ☐ 23' ☐ 2×2 R.W.
90°

6°26' Rt

100 81
10 70
  6'

45°40'

☐ 30' 25' ☐ 2×2 R.W.

au continues thro' same to Sta 129+70[26]
Coordinates Page

Δ = 22°53' Rt
R = 700
118+40$^{23}_{=}$ B.C. T = 141.67
118 L = 279.87

117

116

115

114+16$^{13}_{=}$ E.C.
11
114

113

112

Δ = 57°44'30" Rt.
111 R = 350
T = 192.98
110+63$^{41}_{=}$ B.C. L = 352.72

110+00

2x2 R.W P.I.
on bank in ditch

128

127+28 16 E.C.

127

126

125

124

123+89 93 B.C.

123

122

121+20 10 E.C.

12

121

120

119

Δ = 38°45'30" Lt.
R = 500
T = 175.87
L = 338.23

P.I 2×2 R.W.

2×2 R.W. P.I

140

139

138

137

136+48^40 ⊥ Δ = 1°56" Lt.

136

135

134

133

132

131

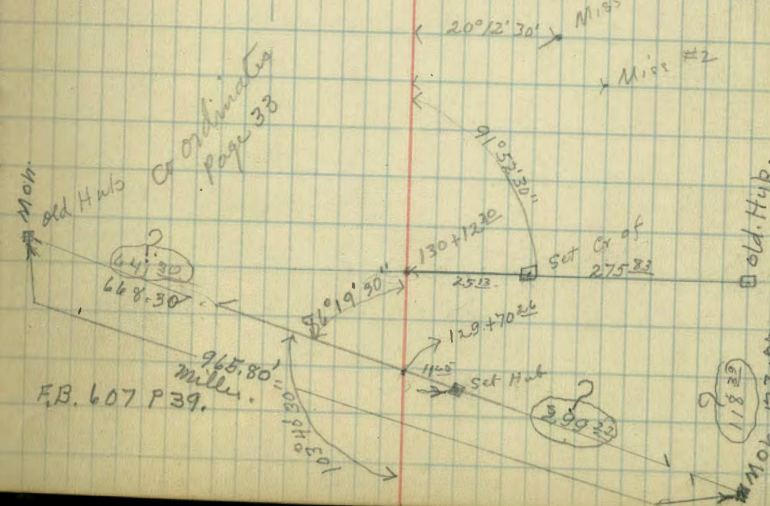
130+12^30 Cross line between {Alfa Grant + Mable Eckhart center line of 1173

130

129+70^26

129

641.30
299.22
940.52
965.80
25.28



149+16 03

149+90 15 E.C.

149

148+41 65 B.C.

147+37 92

148

147

146

145+02 59 E.C.

145

144

143+50 9

143

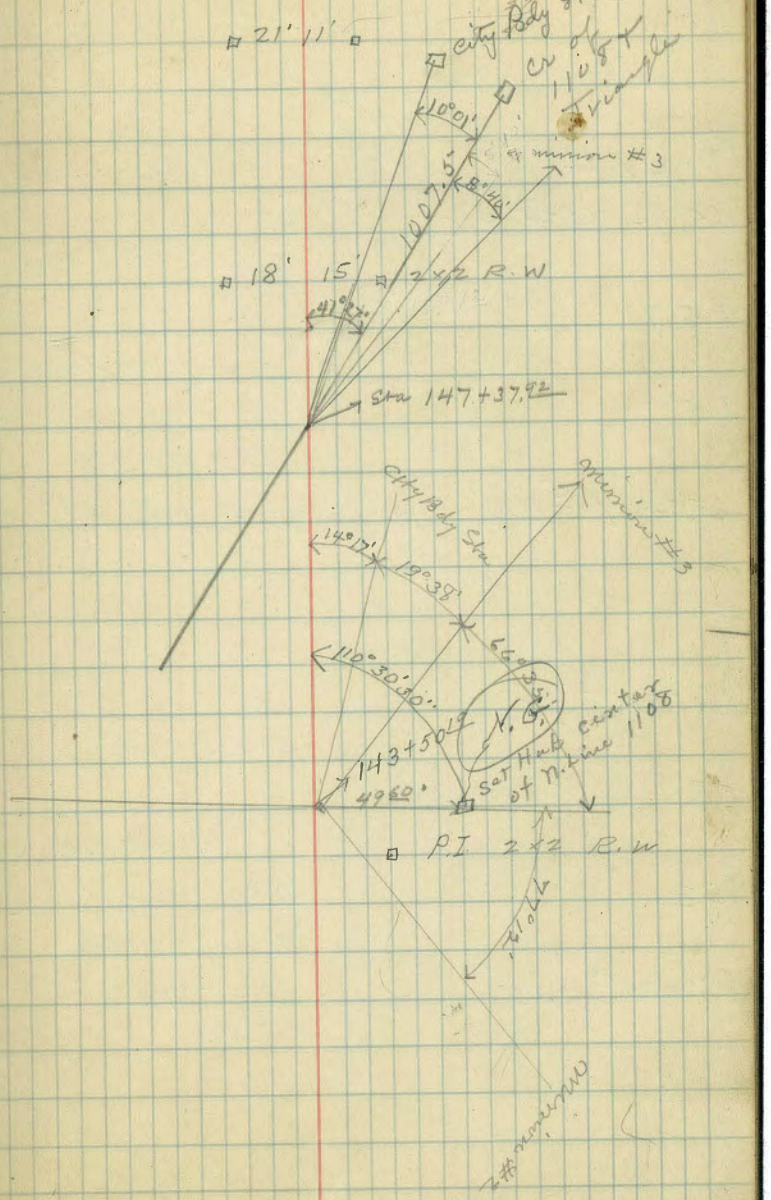
142

141+69 21 B.C.

141

Δ = 8°30'30" Rt
R = 1000
T = 74.38
L = 148.50

Δ = 27°17'15" Lt
R = 700
T = 169.95
L = 333.38



159

158+91.42

158

157+62.47

157+36.54 E.C.

157

156

155+49.65 B.C.

155

154+18.99 E.C.

153

152

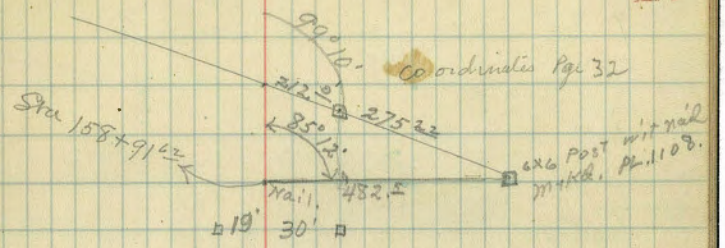
151+74.70 B.C.

151

150

Δ = 10°42'30" Rt.
R = 1000
T = 93.73
L = 186.89

Δ = 13°59'30" Rt.
R = 1000
T = 122.70
L = 244.20



2x2 22.09 12'

2x2 25'

2x2 R.W 20'

169

168

167

166

165

164+23.40 E.C.

164

163

162+54.47 B.C.

162

161

160

159+94.96 L.

Δ = 9°40'45" Rt.
R = 1000
T = 84.66
L = 168.93

Δ = 5°53'30" Rt.

□ 14' 16' □

□ 15 15 □ 2×2

2×2 □ 15

15°

□

177+04 92 E.C.

177

176

175

174+67 69 B.C.

174

173

172

171+34 96 E.C.

171

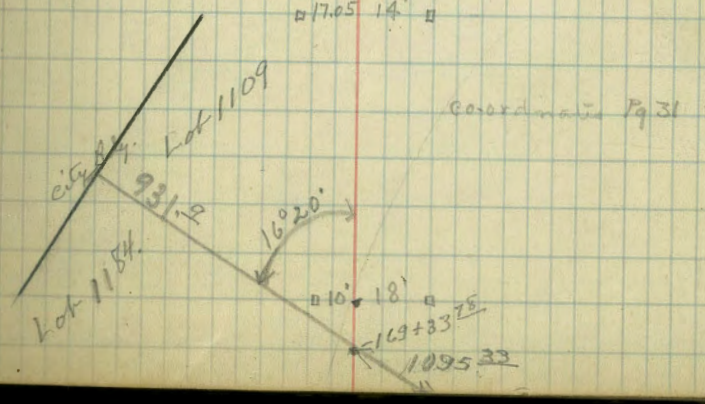
170

169+96 28 B.C.

169+33 28

Δ = 27°11' Lt.
R = 500
T = 120.85
L = 237.23

Δ = 7°56'45" Lt.
R = 1000
T = 69.44
L = 138.68



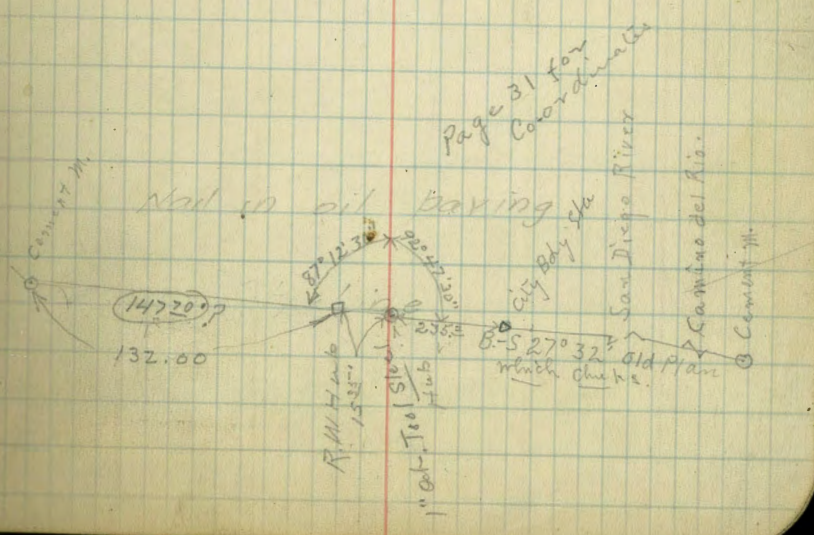
178+49.26

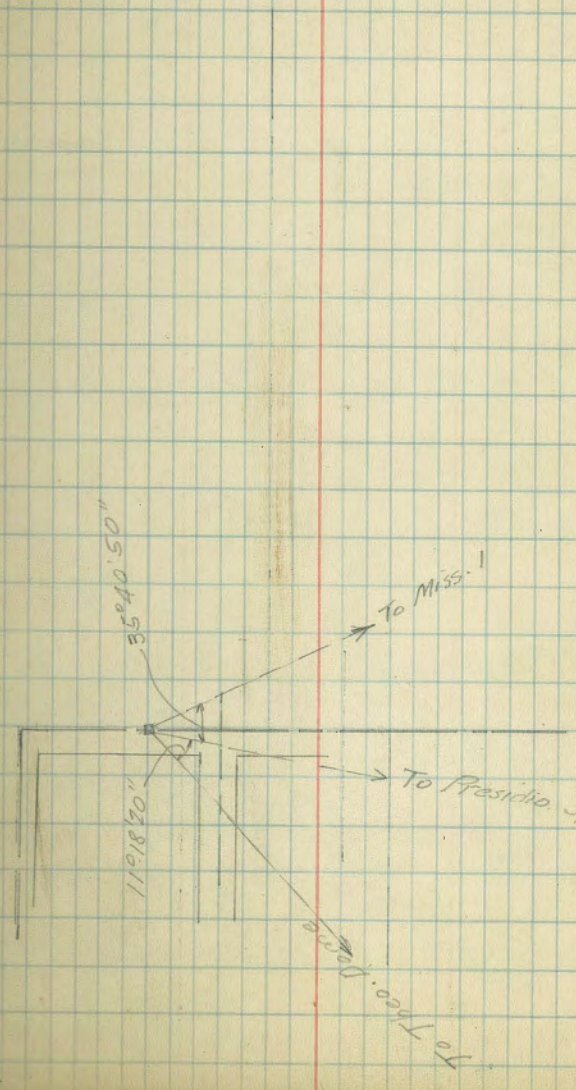
177+74.44 City Line

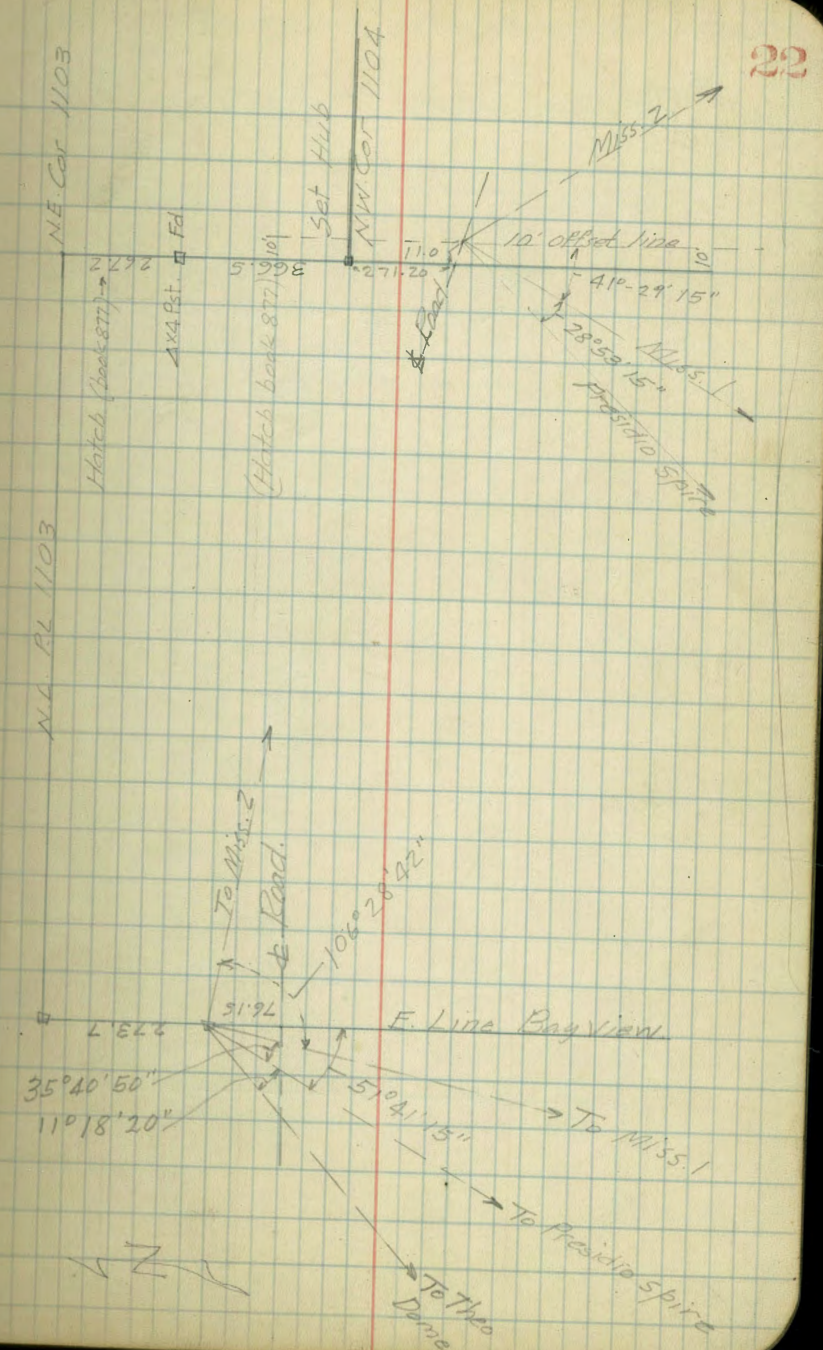
17849.26
17774.44
74.82

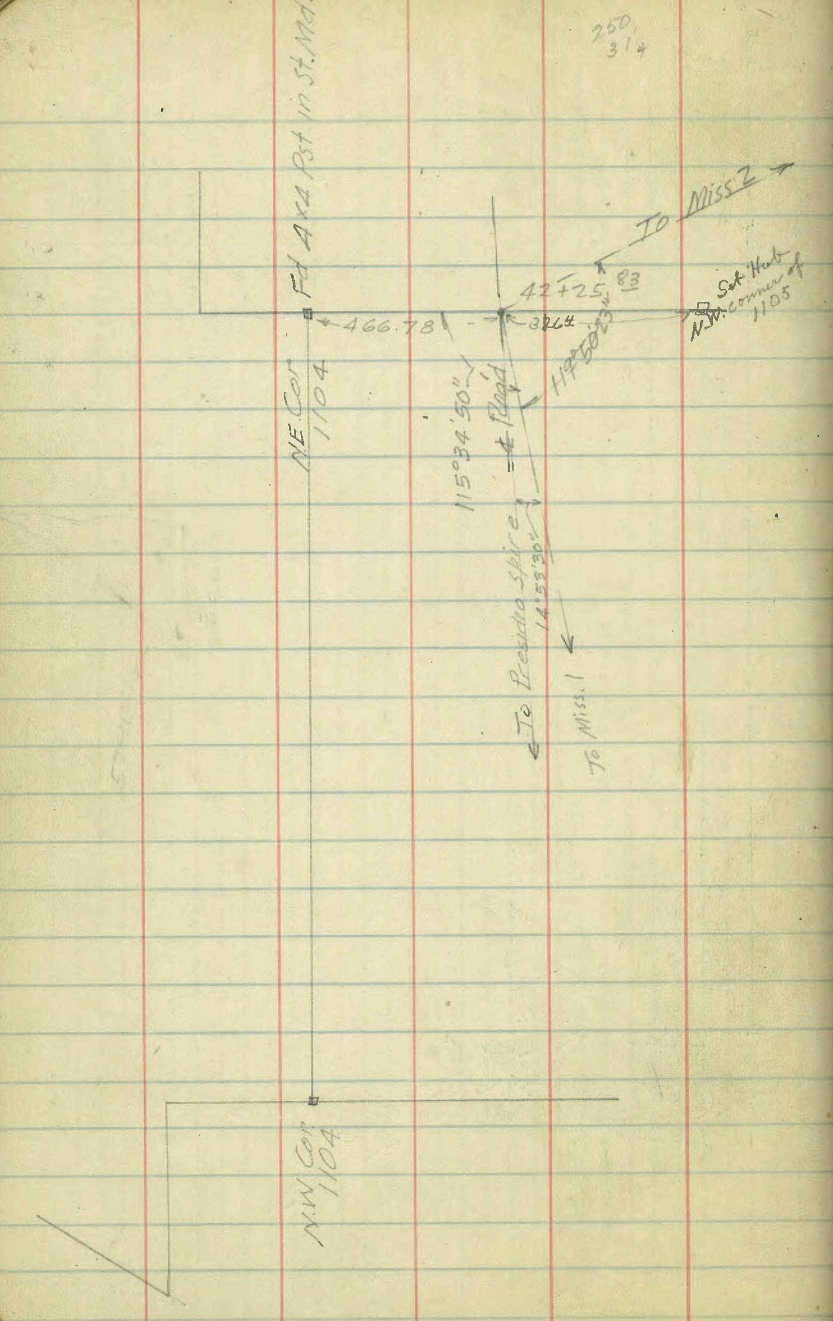
147.70

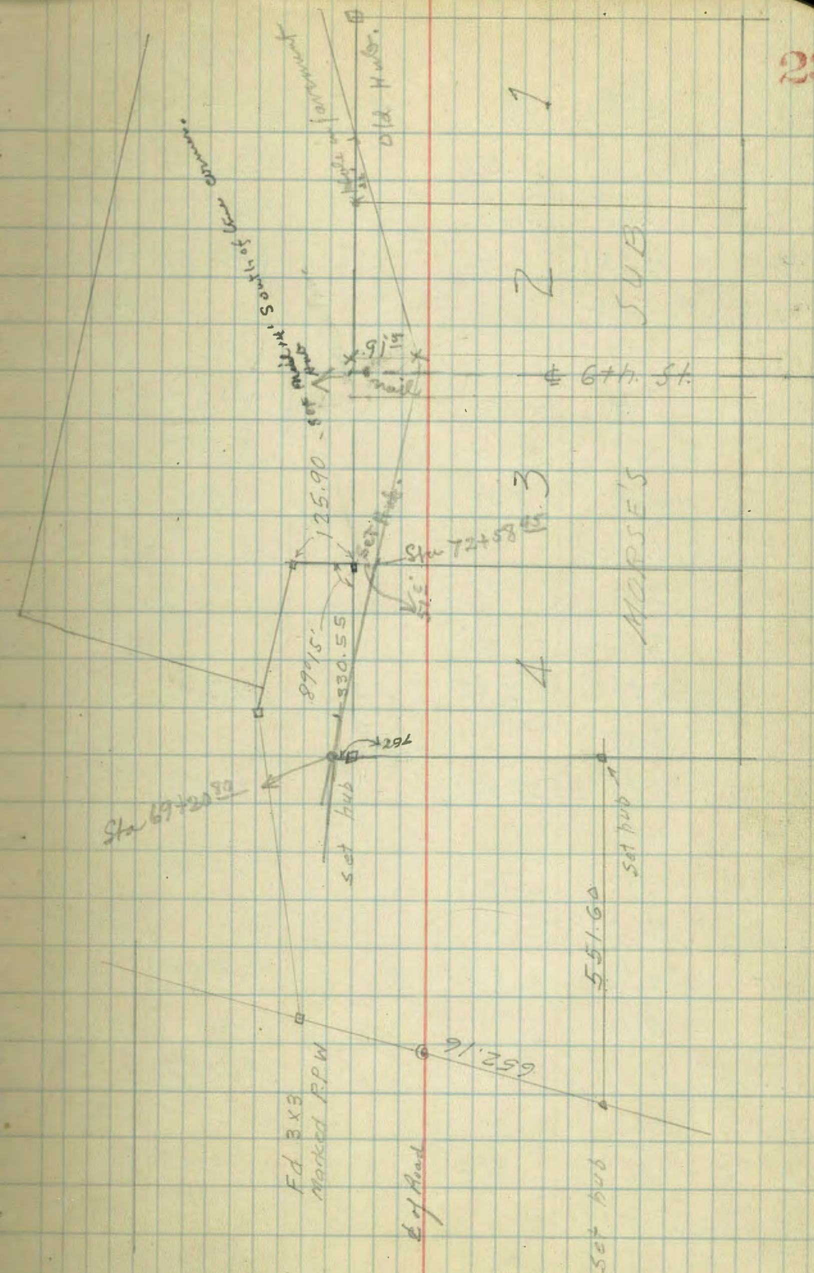
132
15.35
147.35




35°40'50"
To Miss.
To Presidio Spire
To Theo. Depot
111°18'20"


N.E. Cor 1103
Set Hub
N.W. Cor 1104
Fd.
Miss 2
10' offset line
11.0
271.20
366.5
262.7
41°-29' 15"
28°59'15"
Miss 1
Presidio Spire
Hatch (book 877)
4x4 Pst.
(Hatch book 877)
℄ Road
N.L. Pl 1103
To Miss 2
℄ Road
106°28'42"
76.15
273.7
E. Line Bay View
35°40'50"
11°18'20"
51°41'15"
To Miss 1
To Presidio Spire
To Theo Dome
N


250
314
Fd 4x4 Pst in St. Md.
NE Cor
1104
466.78
42+25.83
32.64
To Miss 2
Set Hub
N.W. corner of
1105
115°34'30"
℄ Road
To Presidio spire
14°53'30"
To Miss. 1
N.W. Cor
1104


Old Hub
1
2
SUB
℄ 6th. St.
nail
125.90
Set hub
3
MORSE'S
89°15'
330.55
4
Sta 69+30.89
set hub
Fd 3x3
Marked RPW
℄ of Road
652.16
551.60
Set hub

Sta.	F.S.	B.S.	Diff.	H.I.	Elv.
B.M. = EC		0.23		52.47	52.24
B.C.	12.98	2.88		42.37	39.49
P.I.	12.93	2.56		32.00	29.44
77+12.51	5.65				26.35
76+87.41	4.71				27.29
67+50	3.21	11.95		40.84	28.79
64+97.68	1.01	13.65		53.48	39.83
64+80	0.10	8.31		61.69	53.38
64+34	5.02				55.67
57+16	7.92	6.73		60.50	53.77
54+06	5.16				55.34
48+96	5.91	7.88		62.47	54.59
45+26.03	5.07				57.40
39+25	11.88	10.43		61.02	50.59
34+35	5.11				55.91
32+91.85	0.03	3.06		64.05	60.99
28+30	5.08				58.97
26+60	12.76	1.80		53.09	51.29
23+79.2	5.08				48.01
18+95	11.36	0.94		42.67	41.73
15+90	5.29				36.38
10+80	9.46	6.72		39.93	33.21
6+80	5.07				34.88
5+30	0.18	10.71		50.46	39.75
3+30	5.06				45.40

× E.C. on Camp Kearny Road
× B.C. " "

Sta	F.S.	B.S.	Diff	H.I.	Elv.
3+30	5.06			50.46	45.40
1+30	0.42	7.44		57.48	50.04
0+00	5.27				52.21
B.M.	1.01				56.47
B.M	1.08				56.40
B.M.	0.0	0.01		52.25	52.24
86+97.81	13.31	0.55		39.49	38.94
89+25	5.10				34.39
96+50	0.42	13.21		52.28	39.07
100+40	5.02				47.26
102+05	0.03	4.55		56.80	52.25
105+35	5.04	6.45		58.70	51.76
108+45	6.05	3.05		55.70	52.65
111+51	3.05	5.05		57.70	52.65
114+70	5.05	6.07		58.72	52.65
117+80	6.07	4.30		56.95	52.65
119+00	1.75	6.07		61.27	55.20
120+90	4.48	7.94		64.73	56.79
124+97	5.02				59.71
126+47	9.70	4.50		59.53	55.03
134+47	5.02				54.51
144+17	9.35	3.15		53.33	50.18

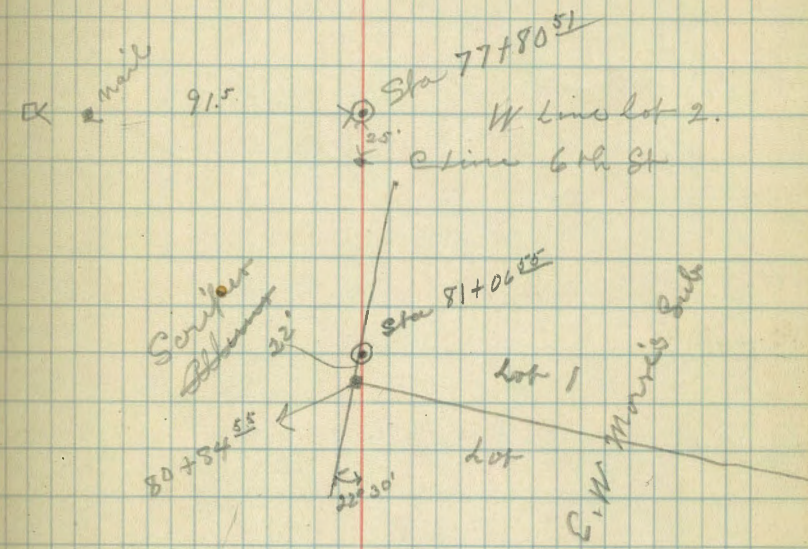
R. Wood Hub 25' to Right of ℄ of Road at 0+00

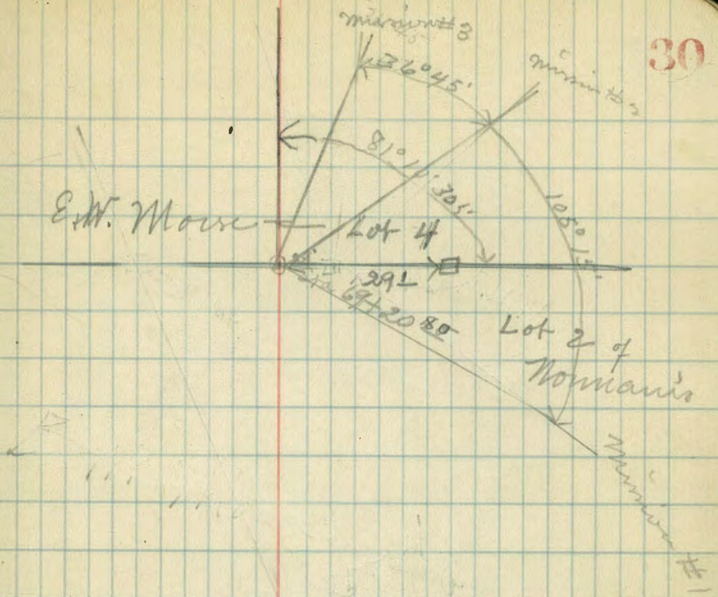
Highest point on Water Meter box 5' R. of above R. Wood Hub.

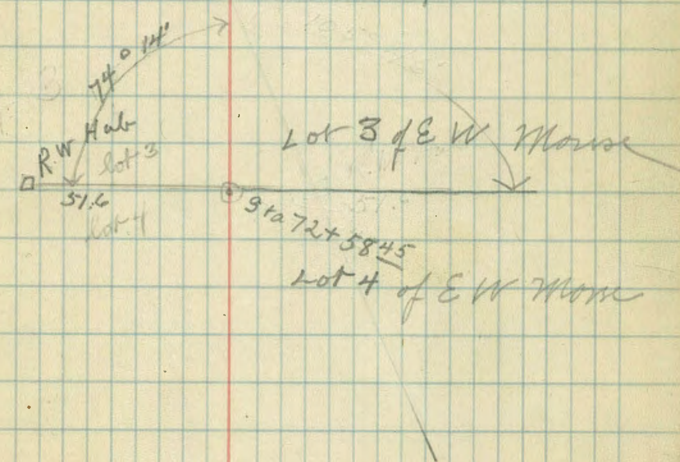
Lead plug on ℄ at E.C. on Camp Kearney road. Just beyond Murphy Canyon Road

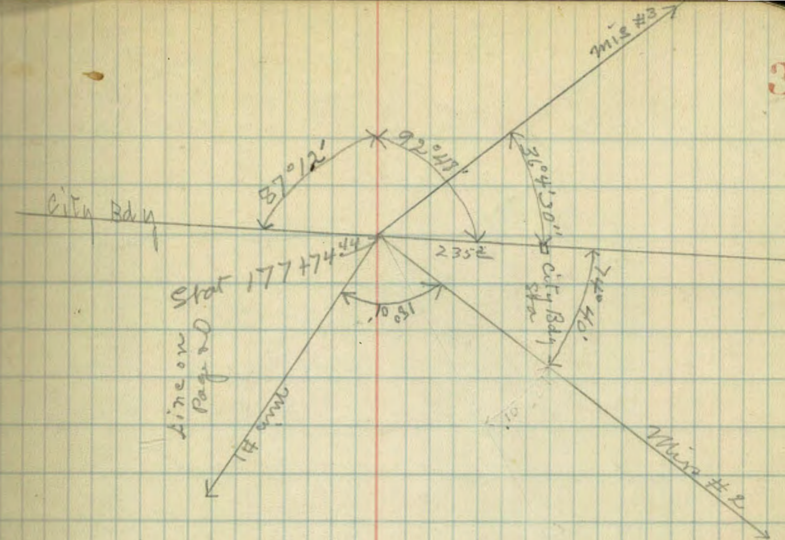
Sta	FS	B.S	Diff	H I	Elv
142+17	9.35	3.15		53.33	50.18
148+41.65	5.06				48.27
160+81	0.07	5.53		58.79	53.26
164+23.4	5.01				53.78
167+45	0.06	11.03		69.76	58.73
169+55	4.98				64.78
171+05	0.01	9.97		79.72	69.75
175+10	5.12				74.60
176+50	0.45	6.17		85.44	79.27
177+45	5.06				80.39
177+74.44	4.44				81.00
B.M.	2.24				83.20

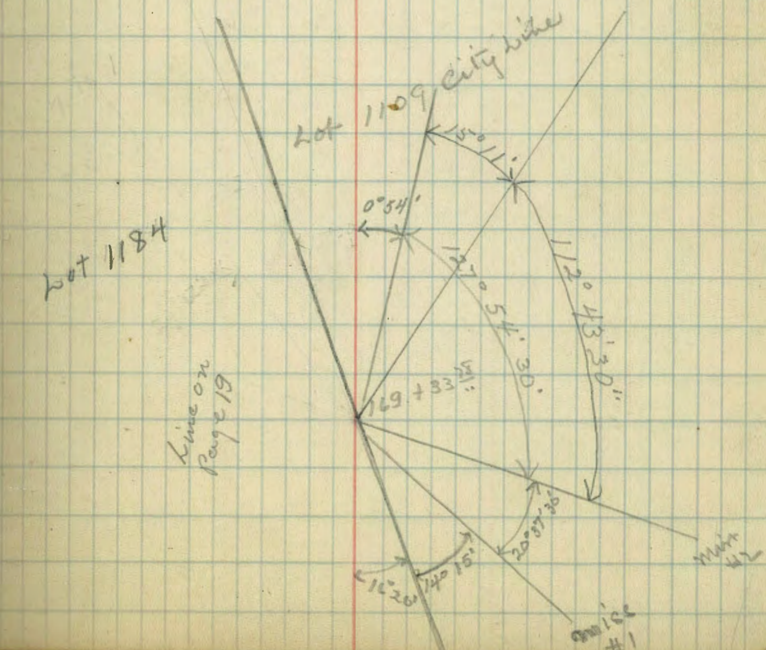
Cr of Fence to the right on stone end of ditch with Black mark

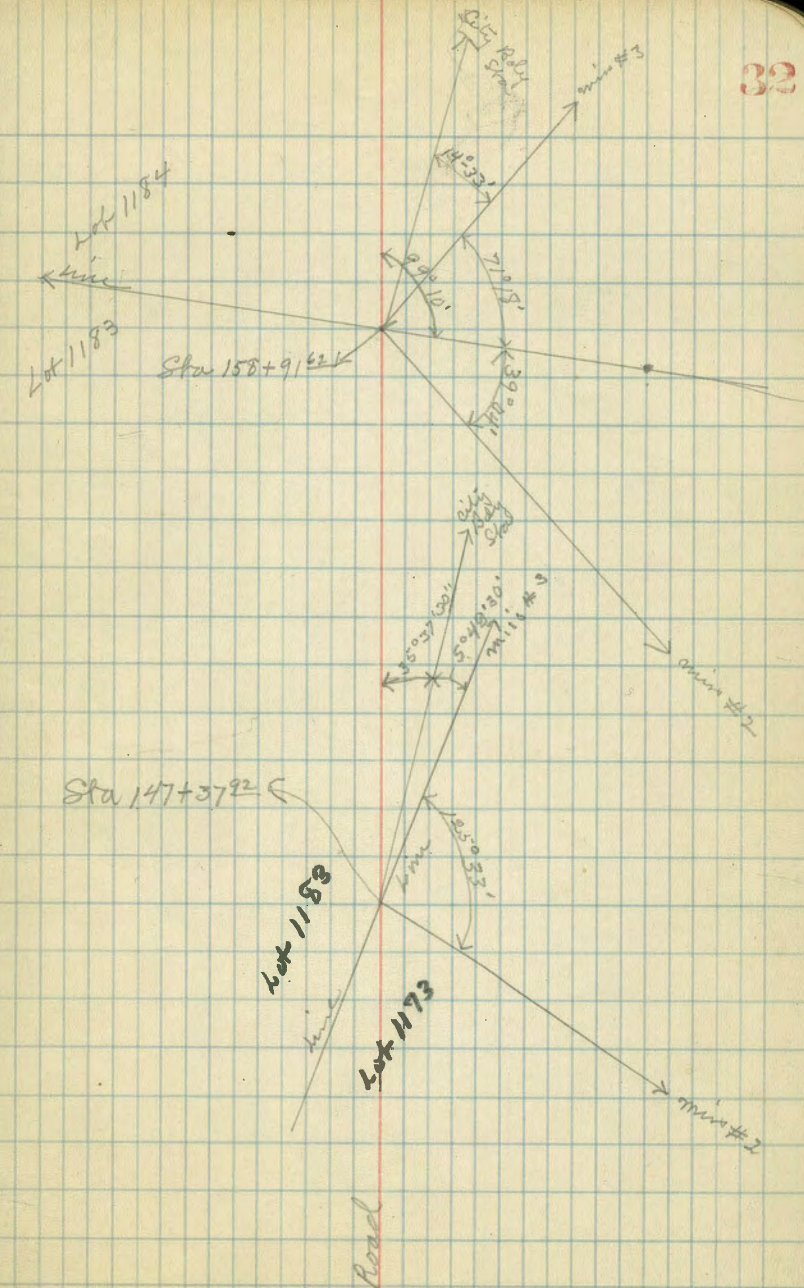

nail
91.5
Sta 77+80 51
W Line lot 2.
25'
Sta 81+06 55
22'
80+54 55
Lot 1
Lot
22° 30'
E.W. Morris Sub

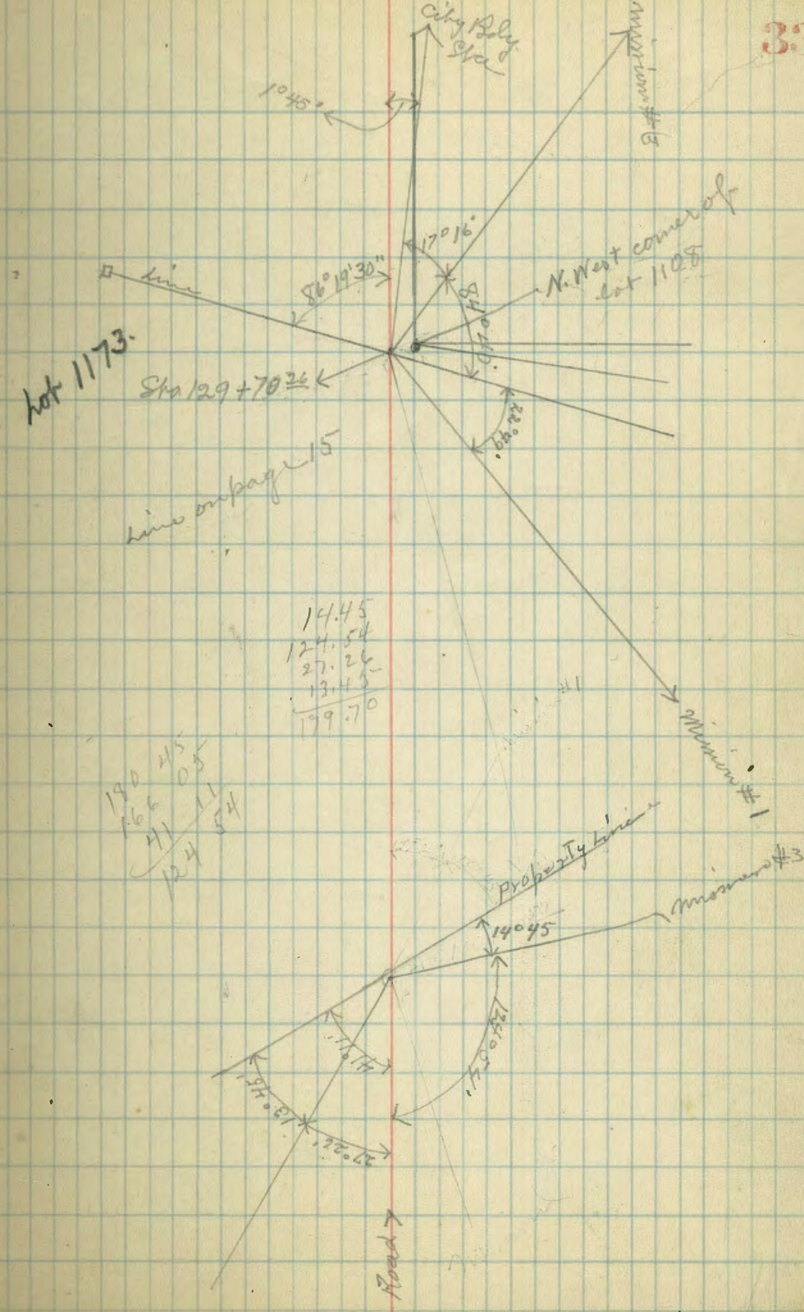

36°45'
E.W. Morse
Lot 4
Lot 2 of
Mission #1

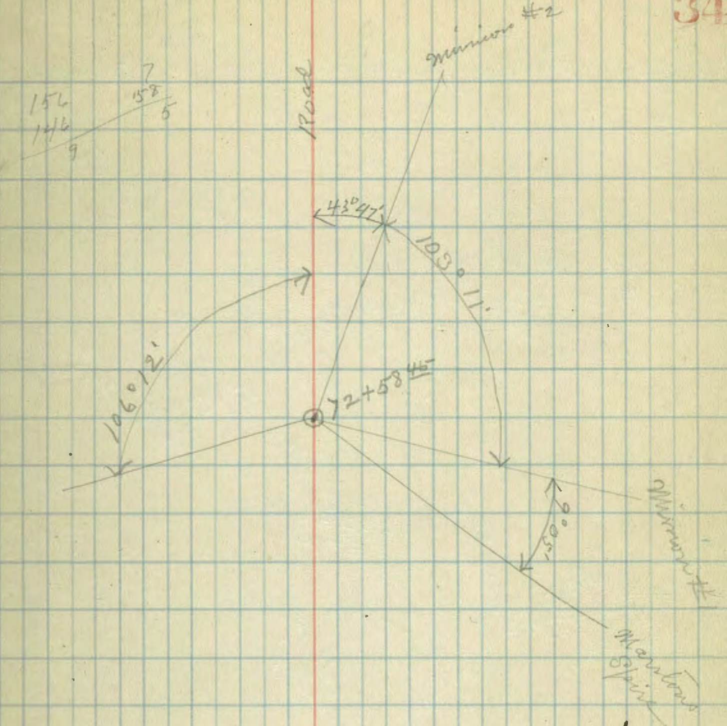

74°14'
R.W. Hale
Lot 3
51.6
Lot 4
Lot 3 of E W Morse
Lot 4 of E W Morse


City Bdy
87°12'
92°48'
mis #3
Mis #2
Line on Page 20


Lot 1109 City Line
Lot 1184
0°54'
127°54'30"
112°43'30"
Line on Page 19


Lot 1184
line
Lot 1183
Sta 158+91.62
14°33'
29°10'
71°18'
39°44'
min #3
min #2
Sta 147+37.92
35°03'30"
5°48'30'
23°03'
line
Lot 1183
Lot 1173
line
min #3
min #2
Road


City Poly Sta
1°45'
Mission #5
17°16'
86°19'30"
line
N. West corner of
Lot 1128
Lot 1173.
Sta 129+70²⁶
Line on page 15
14.45
124.54
27.26
13.45
179.70
180 45
166 05
41 11
124 54
Mission #1
Property Line
Mission #3
14°45
Road

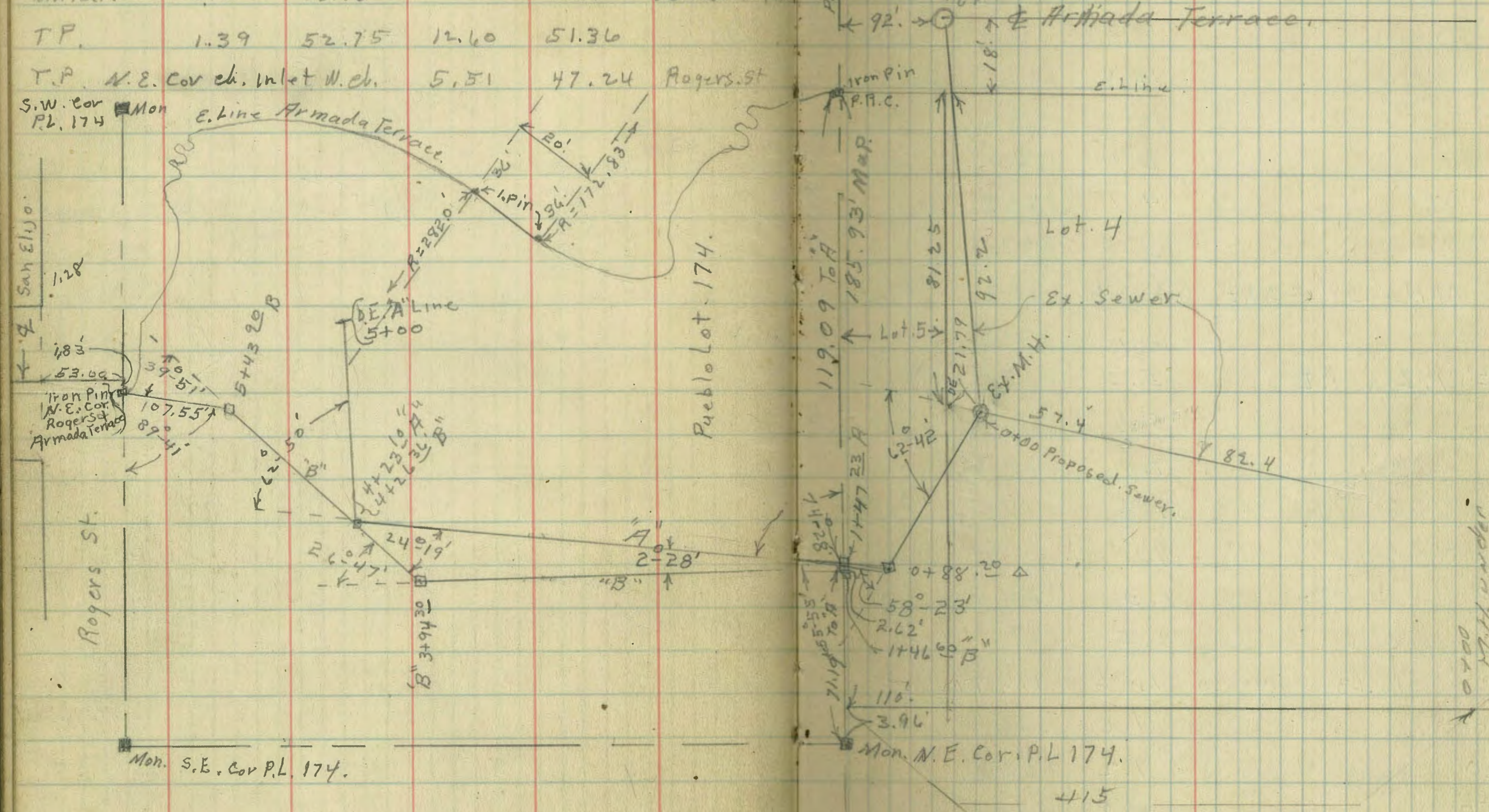

156
146
9
7
58
5
Road
Minion #2
43°47'
103°11'
106°12'
72+58 46
50°
Minion #1
Marlton
Spire

Indexed C.S.K.

Survey Proposed Sewer 6-13-35
In. P.L.s. 175 & 174.
Miller. Walker. Bliss.

B.M. R.P. Hub. S. Line Rogers. St. 40' W. of W. Line San Elijo. St.				157.63	Grade Book 121. S.E. Rosecrans & Quaitrough
BM. B.P.	2.16	63.96		61.80	
T.P.	1.39	52.75	12.60	51.36	
T.P. N.E. Cor. ch. Inlet W. ch.			5.51	47.24	Rogers St.

E. 75.00 18°20'
W. 100 13°57' +22.04'



"A" Line — Levels on Proposed Sewer in Pueblo Lot 174.

0+00 B.M.	13.80	128.63	114.83	F.L. M H
0+00		9.55	119.08	Top " "
0+00		9.8	118.8	Ground
0+04		12.4	116.2	"
0+18		10.0	118.6	"
+43		6.1	122.5	
+50		4.7	123.9	
0+75		5.9	122.7	
0+88 20 M.H. ∠ 58°-23' Rt.		8.24	120.39	Hub.
1+00		6.8	121.8	
1+47 23 P. Line P.I		5.3	123	
1+75		5.6	123.0	
2+00		7.8	120.8	
2+15		9.6	119.0	
2+33		9.8	118.8	
2+50		8.3	120.3	
2+80		1.5	127.1	
T P	13.23	140.06	1,86	126,77
3+00			11.6	128.4
3+20			9.2	130.8
3+50			8.8	131.2
3+79 94			10.17	129.83 Stub
4+00			12.1	127.9
4+23 10 = 4+24 36 "B" ∠ 62°-50' Rt.			16.8	123,2
4+50				128.0
4+75				131.2
5+00 D.E Bottom gulley				123.6

"B" Line

128.63

0+88 20 M.H. ∠ 55°-55' Rt.			8.24	120.39 Hub.
1+00			7.0	121.6
1+46 60 P. Line P.I			6.0	122.6
1+75			6.8	121.8
2+00			9.5	119.1
2+15			11.0	117.6
2+33			11.6	117.0
2+50			10.7	117.9
2+80			3.9	124.7
T.P.	13.23	140.00	1.80	126.77
3+00			13.8	126.2
3+28 70 P.O.T.			11.57	128.43 Hub
3+35			11.3	128.7
3+72			13.7	126.3
3+94 30 M.H. ∠ 26°-47' Rt.			17.0	123.0
4+26 36 = 4+23 10 "A"			16.8	123.2
T.P.	4.33	131.84	12.49	127.51
4+60			13.0	118.8
4+72			18.5	113.3
4+82			24.0	107.8
5+07			1.8	130.0
T.P.	12.71	143.77	0.78	131.06
5+19			7.0	136.8
5+43 90 ∠			8.06	135.71 Hub.
T.P.	13.01	156.61	0.17	143.60
T.P.	6.55	159.65	3.51	153.10

over.

159.65

B.M. R.P. Hub. S. side Rogers. 40' W. of W. Line San Elijo.			2.02	157.63	G.B. K121
S. Line Rogers. N. ch. San Elijo			3.86	155.79	
S. " " E. " " "			4.90	154.75	
T.P.	0.08	146.98	12.75	146.90	
T.P	0.27	134.65	12.60	134.38	
Top. M.H.	0+00		15.57	119.08	

Xsec of Talbot St.
Leroy to Bangor

Moore
Sisson
Northern
9/4/35

1+00				
0+75				
0+50				
0+25				
T.P.	11.77	88.31	0.18	76.54
0+00	end of paving on Talbot			
0-35 = w' cb line Leroy St.				
T.P.	12.19	76.72	0.27	64.53
RWBP	13.03	64.80		57.77

Evergreen
Talbot

Indexed
C.S.K.

Pueblo line

38

page 40 for levels

79.3 / 9.0 / 26.4 — 80.1 / 8.2 / 5 — 82.1 / 6.2 / 1 — 80.1 / 8.2

78.5 / 8.5 / 17 — 81.6 / 4.7 / 16 — 88.0 / 6.3 / 25

80.2 / 8.1 / 26.4 — 78.7 / 9.6 / 20 — 79.2 / 9.1 / 10 — 89.2 / 8.1

77.8 / 10.5 / 17 — 80.3 / 5.0 / 17 — 76.6 / 11.7 / 25

78.1 / 10.2 / 26.4 — 78.2 / 10.1 / 20 — 77.3 / 11.0 / 10 — 78.0 / 9.3

76.9 / 11.4 / 17 — 78.3 / 10.0 / 25

77.3 / 11.0 / 26.4 — 76.4 / 11.9

76.9 / 11.4 / 10 — 77.3 / 11.0 / 15 — 76.1 / 13.2 / 25

88.31 / 3

76.52 / 0.20 / 25 curb — 75.51 / 1.21 / 25 gut pav. — 74.75 / 1.97 pav. — 74.65 / 2.07 / 14 gut — 75.32 / 1.40 / 15 cb — 75.39 / 1.33 / 25 · Top Conn paved road

74.13 / 2.49 / 25 curb — 73.21 / 3.51 / 25 gutter pav — 72.61 / 4.11 pav — 73.45 / 3.27 / 35 pav.

76.72 / 3

Talbot St.
Leroy to Bangor

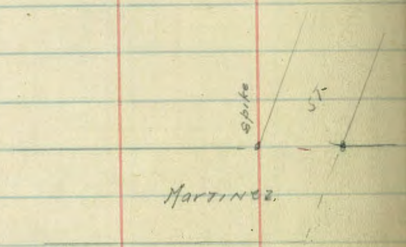
11 + 48.1d Wly Bangor in Roseville Hts.

10 + 50.84

10 + 20.84 Ely Bangor in Golden Park

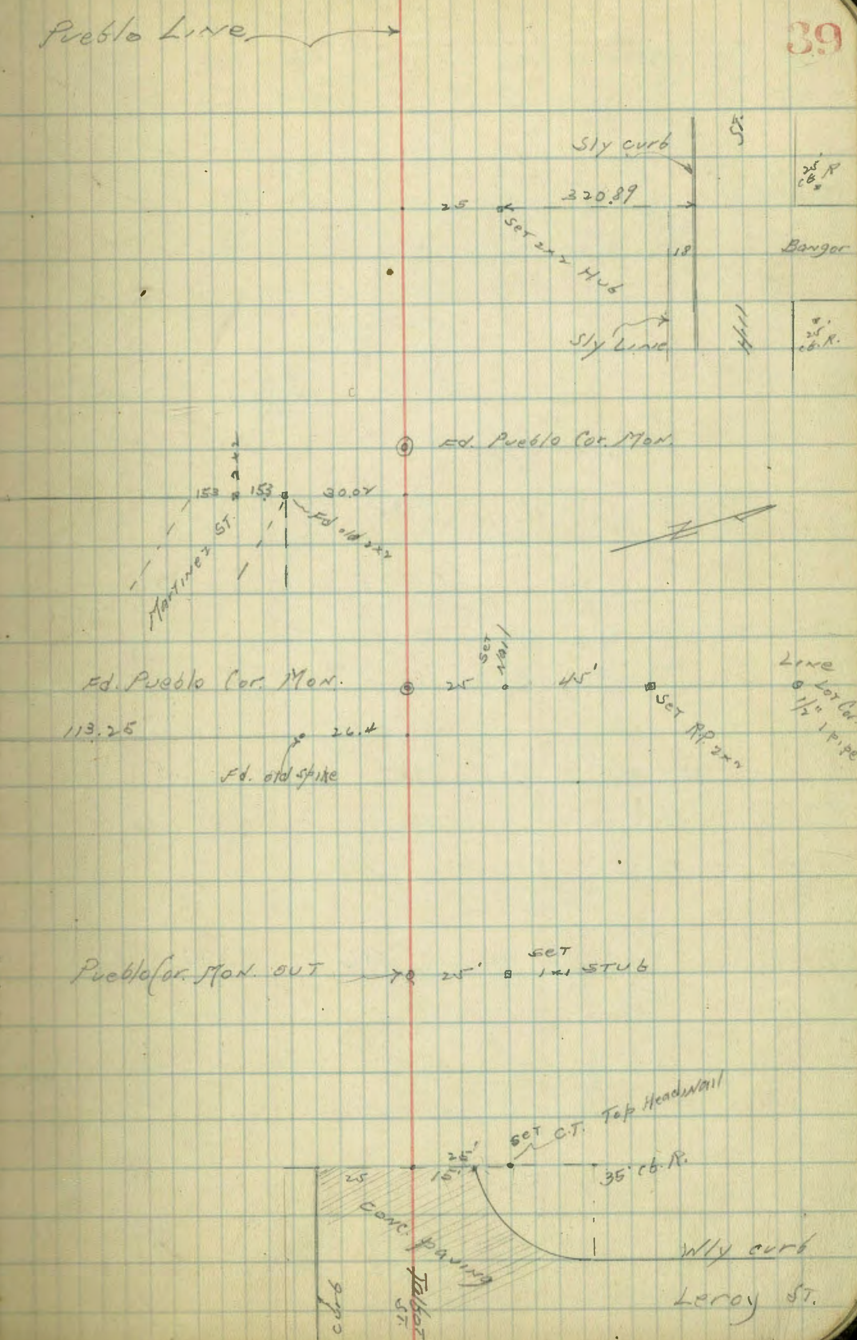
5 + 09.11

4 + 71.20



1 + 29.60

0 + 00



← Pueblo Line

91.8	91.8	88.6	88.4	89.1	85.8	85.7	88.0	85.3	88.8
4.0	4.6	7.4	7.7	6.7	10.0	10.1	7.8	10.1	7.0
26.4	15	15		9	10	25	25	28	29

91.5	80.2	89.2	85.5	86.2	84.5	84.1	84.7	87.8
4.3	15.1	8.6	10.0	9.6	11.3	11.7	11.1	8.0
26.4	23	21		10	15	25	25	30

12" Conc. Pipe draw outlet Ft. 26.53 Rod 25'
from Runnymeade
-1.7%

84.4	84.5	84.3	83.9	84.2	86.8	
9.4	11.3	11.5	11.9	11.6	9.0	
26.4	15		15	24	25	

84.7	83.8	83.3	82.7	83.2	85.7	85.8
11.6	12.0	12.5	13.1	12.1	10.1	10.0
26.4	15		15	22	23	25

82.0	82.6	82.5	81.1	82.4
13.8	13.2	13.0	14.7	13.4
26.4	15		24	25

95.81
2

79.7	81.5	81.3	81.9	80.3	80.8	83.15
9.1	6.8	7.0	6.4	8.0	7.5	5.16
26.4	10		7	10	23	15

Hub

88.31
7

2 + 50

2 + 25

2 + 17

2 + 00

1 + 75

1 + 50

T.P. Hub #4 1+29.60 | 12.66 | 95.81 | 7.16 | 83.15

1 + 29.60 = Pueblo line To South

88.31

← Pueblo Line

3+75				
3+60				
3+50				
3+25				
3+00				
T.P.	12.84	108.41	0.24	95.57
2+75				
2+53				

105.7 100.9 98.4 97.2 91.4 90.9 96.7
2.7 7.5 10.4 11.4 17.0 17.5 11.7
26.4 15 25 30 28 23

102.9 97.5 96.7 96.3 92.4 89.3 96.0
5.5 10.9 11.7 12.1 16.0 19.1 12.4
26.4 10 25 27 40 24

104.6 97.0 96.0 95.6 90.0 85.9 94.4
6.8 11.4 12.4 12.8 18.4 19.5 14.0
26.4 15 22 25 38 22

97.8 93.3 94.1 94.3 87.8 82.8 82.5 93.7
10.6 13.1 14.3 14.1 20.6 20.6 20.5 14.7
26.4 15 19 21 25 38 22

96.2 92.9 92.5 90.3 89.5 82.3 92.3
12.2 15.5 15.6 18.1 18.6 21.1 16.1
26.4 15 17 25 37 38

108.41
3

933
2.5
26.4

92.0 90.2 88.5 88.3 86.4 91.6
3.8 5.1 7.0 7.5 9.4 4.2
14 17 25 37 38

86.29
12 ⊙ Server M.H. Rim
9.72 rod

95.81
3

← Pueblo Line

5+50				
5+25				
5+00				
T.P.	13.17	145.94	0.31	132.77
T.P.	12.64	133.08	0.24	120.44
T.P.	12.53	120.68	0.26	108.15
4+75				
4+50				
4+25				
4+00				

133.4 / 8.5 / 26.4 — 125.5 / 20.4 — 108.2 / 37.7 / 5 — 109.5 / 36.4 / 15 — 108.0 / 37.9 / 25 — 108.5 / 37.4 / 40

136.9 / 9.0 / 26.4 — 122.1 / 23.8 — 107.6 / 38.3 / 5 — 110.5 / 35.4 / 15 — 106.8 / 39.1 / 25 — 106.5 / 39.8 / 40

135.0 / 10.7 / 26.4 — 122.2 / 23.7 — 109.5 / 36.0 / 4 — 106.8 / 39.1 / 15 — 105.8 / 40.1 / 25 — 105.3 / 40.6 / 40

145.94 / 3

131.3 / + 22.9 / 26.4 — 125.4 / + 17.0 / 15 — 117.4 / + 9.0 — 105.0 / 34 / 3 — 105.3 / 33.1 / 25 — 104.6 / 33.8 / 35 — 102.4 / 6.0 / 50

124.9 / + 16.5 / 26.4 — 128.5 / + 10.5 / 15 — 111.1 / + 2.7 / 1 — 102.1 / 1.9 — 103.8 / 4.6 / 1 — 103.6 / 4.8 / 1.8 — 102.4 / 6.0 / 25 — 101.8 / 6.6 / 30 — 98.0 / 9.7 / 36 — 99.0 / 9.4 / 45 — 101.5 / 6.6 / 50

112.4 / + 9.0 / 26.4 — 112.2 / + 8.8 / 15 — 105.0 / 34 / 5 — 102.9 / 5.5 — 100.1 / 8.3 / 12 — 99.8 / 8.6 / 21 — 93.4 / 15.4 / 25 — 92.4 / 16.0 / 40 — 99.5 / 8.9 / 50

109.7 / + 1.3 / 26.4 — 105.1 / 3.3 / 0.5 — 100.8 / 7.6 — 98.2 / 9.7 / 10 — 97.8 / 10.5 / 20 — 96.2 / 12.2 / 25 — 90.1 / 18.3 / 30 — 90.1 / 18.3 / 40 — 97.8 / 10.6 / 43

108.41 / 2

← Pueblo line

7+00						137.1 / 10.8 / 26.4 — 126.3 / 21.6 / 4 — 123.9 / 24.0 — 119.5 / 28.4 / 10 — 116.5 / 31.4 / 25 — 111.9 / 36.0 / 28 — 112.5 / 35.4 / 40 — 118.0 / 29.9 / 41
6+75						136.6 / 11.3 / 26.4 — 123.3 / 24.6 — 119.8 / 28.1 / 10 — 115.7 / 32.2 / 18 — 115.4 / 32.5 / 25 — 115.4 / 32.5 / 30 — 114.9 / 33.0 / 35 — 111.5 / 36.4 / 42 — 115.8 / 32.1 / 45
6+50						142.5 / 5.4 / 26.4 — 129.8 / 18.1 — 126.1 / 21.8 / 2 — 114.4 / 33.5 / 18 — 113.6 / 34.3 / 25 — 114.0 / 33.9 / 40
6+45						143.0 / 4.9 / 26.4 — 130.4 / 17.5 — 118.4 / 29.5 / 4 — 114.3 / 33.6 / 15 — 113.2 / 34.6 / 25 — 114.2 / 33.7 / 40
6+25						145.5 / 2.4 / 26.4 — 140.4 / 7.5 / 15 — 131.9 / 16.0 — 117.8 / 30.1 / 4 — 112.2 / 35.7 / 10 — 114.5 / 33.4 / 25 — 111.8 / 36.1 / 40
T.P.		3.83	147.85	1.92	144.02	147.85 / 5
6+00						148.0 / 2.9 / 26.4 — 129.2 / 16.7 — 113.5 / 32.4 / 5 — 113.6 / 32.3 / 10 — 110.4 / 35.5 / 15 — 110.3 / 35.6 / 25 — 110.8 / 35.1 / 40
5+75						139.3 / 4.6 / 26.4 — 134.5 / 11.4 / 15 — 127.6 / 18.3 — 111.6 / 34.3 / 5 — 112.3 / 33.6 / 10 — 109.5 / 36.4 / 15 — 109.3 / 36.6 / 25 — 109.2 / 36.7 / 40

145.94

T.P. mail, N pole	659	151.01	3.43	144.47
7+00				
6+75				
6+50				
6+25				
6+00				
5+75				
5+50				
5+25				
		147.85		

142.3 / 5.6 / 26.4 — 138.7 / 9.2 / 15 — 134.9 / 16.0 — 130.7 / 19.2 / 6 — 127.9 / 20.0 / 10 — 127.5 / 20.1 / 24 — 123.2 / 25.7 / 25 — 118.6 / 29.3 / 33 — 128.0 / 19.9 / 35

138.9 / 9.0 / 26.4 — 134.1 / 16.8 / 7 — 127.9 / 20.7 — 126.6 / 21.8 / 23 — 118.4 / 30.5 / 25 — 118.9 / 28.0 / 32 — 127.1 / 20.8 / 28

136.9 / 11.0 / 26.4 — 127.2 / 20.7 — 126.0 / 21.9 / 10 — 124.8 / 23.1 / 23 — 114.8 / 31.4 / 24 — 114.5 / 31.7 / 33 — 125.0 / 22.9 / 35

134.9 / 13.0 / 26.4 — 125.0 / 22.9 — 123.2 / 24.7 / 20 — 116.0 / 31.9 / 25 — 118.9 / 29.0 / 34 — 123.5 / 24.1 / 38

132.1 / 10.8 / 26.4 — 132.5 / 15.1 / 15 — 124.7 / 23.7 — 122.4 / 25.5 / 15 — 116.0 / 31.9 / 25 — 115.3 / 32.7 / 32 — 122.2 / 25.7 / 35

138.5 / 9.1 / 26.4 — 135.5 / 12.4 / 15 — 131.8 / 16.1 / 5 — 127.3 / 20.6 — 123.2 / 24.7 / 10 — 120.2 / 27.7 / 20 — 116.3 / 32.6 / 28 — 114.5 / 33.1 / 35 — 121.2 / 26.7 / 36

138.7 / 8.2 / 26.4 — 135.2 / 12.7 / 15 — 130.4 / 17.3 — 126.5 / 21.1 / 3 — 123.5 / 24.4 / 8 — 121.7 / 26.4 / 15 — 119.8 / 28.1 / 21 — 114.0 / 33.9 / 25 — 114.6 / 33.9 / 30 — 115.9 / 28.10 / 34

138.8 / 8.1 / 26.4 — 127.2 / 20.0 — 123.9 / 24.0 / 4 — 120.9 / 27.0 / 15 — 117.4 / 30.4 / 20 — 118.2 / 29.2 / 28 — 112.8 / 35.1 / 25 — 113.2 / 34.7 / 32 — 118.7 / 29.5 / 35

147.85

10+75				
T.P	11.9	150.58	12.35	138.66
10+50				
10+25				
10+00				
9+75				
9+50				
9+25				

151.01

138.7 / 11.9 / 26.4 — 138.1 / 12.5 / 21 — 133.7 / 16.9 / 18 — 133.2 / 16.9 / 12 — 138.8 / 12.6 / 8 — 137.8 / 12.8

137.9 / 12.7 / 25 — 140.8 / 9.8 / 35

150.58

143.3 / 7.7 / 26.4 — 137.0 / 14.0 / 13 — 131.3 / 19.7 / 7 — 136.3 / 14.7

135.2 / 14.8 / 25 — 136.2 / 14.8 / 35

146.2 / 5.3 / 26.4 — 141.4 / 9.6 / 15 — 137.4 / 13.6 / 7 — 129.9 / 21.1

134.4 / 16.6 / 4 — 134.4 / 14.6 / 25 — 134.8 / 16.7 / 35 — 135.9 / 15.1 / 41.42

146.0 / 5.9 / 26.4 — 142.1 / 8.9 / 15 — 138.5 / 12.5 / 10 — 135.6 / 15.4 — 128.9 / 22.1 / 4 — 130.8 / 20.2 / 12 — 133.4 / 17.6 / 15 — 133.5 / 17.4 / 25 — 133.1 / 17.9 / 35

146.3 / 4.7 / 26.4 — 141.8 / 9.2 / 15 — 138.6 / 12.4 / 10 — 136.0 / 15.0 — 135.2 / 27.8 / 15 — 134.9 / 19.1 / 20 — 132.0 / 19.0 / 25 — 132.0 / 19.0 / 35

142.9 / 4.1 / 26.4 — 142.9 / 8.1 / 15 — 135.7 / 14.3 — 130.9 / 20.1 / 10 — 126.4 / 24.6 / 15 — 123.4 / 27.6 / 25 — 131.0 / 20.0 / 40

146.0 / 6.0 / 26.4 — 141.8 / 9.2 / 13 — 135.8 / 15.2 — 130.8 / 20.2 / 10 — 134.9 / 26.1 / 20 — 124.4 / 26.6 / 25 — 115.8 / 31.3 / 30 — 122.5 / 28.5 / 40 — 130.0 / 21.0 / 41

Station					
13+48.14 = Miller last section 3400 1505/56				167.6	= 167.5
12+98.14					
T.P.	11.45	172.02	0.91	160.57	
12+50					
12+00					
11+75					
T.P.	11.14	161.48	0.24	150.34	
11+50					
11+25				137.9 / 12.7 / 55 ditch from Bow Are	137.8 / 12.8 / 40
11+00					
		150.58			

167.5 / 4.5 — P. Line

160.4/12.0/35 161.4/10.6/26.4 161.8/10.2 161.8/10.2/10 163.8/8.2/15 165.0/7.0/25 165.9/6.1/35

172.02

155.8/5.7/35 156.5/5.0/26.4 156.2/4.8/15 156.3/5.2/13 156.4/5.1 157.2/4.3/13 159.1/2.4/15 160.0/1.5/25 160.4/1.1/35

149.6/11.9/35 150.5/11.0/26.4 151.3/10.2/15 150.8/10.7 151.2/10.3/15 153.2/8.3/18 154.1/7.4/25 154.1/7.4/35

146.3/15.2/35 147.4/14.1/26.4 149.4/12.1/5 148.3/13.2 148.5/13.0/17 151.8/9.7/25 151.8/9.7/35

33 — 8 — 12.2 Rod El garage

161.48

145.1/5.5/35 145.5/5.1/26.4 146.1/4.5 146.1/4.5/20 148.4/2.2/25 148.6/2.0/35

144.1/6.5/38 143.9/6.7/26.4 144.2/6.4/11 138.9/11.7/8 142.5/8.1/6 143.4/7.2 144.4/6.2/25 145.4/5.2/35

139.9/10.7/40 133.7/16.9/35 136.0/14.6/56.4 139.4/11.2/22 134.5/16.1/16 140.4/10.2/7 140.4/10.2 140.9/9.7/25 142.9/7.7/35

150.58

80' wide
14' cbs.
13' 1/4s.

38th St. X sec. Thorn to Redwood.

5-11-36
Miller
Walker
Blevs

BM. B.P.	0.45	318.63		318.18	N. W. 40th + Myrtle
T.P.	0.88	306.67	12.84	305.79	
T.P. BM. B.P.	9.92	309.91	6.68	299.99	N.W 40th & Thorn.
T.P. Nail Pole	7.68	309.12	8.47	301.44	S. W. 38th + Thorn.

N. Line Thorn St.

W	13.1	296.0
cb	11.9	297.2
1/4	11.2	297.9
℄	10.4	298.7
1/4	9.0	300.1
cb	8.0	301.1
E	7.0	302.1

N. cb.

E	6.6	302.5
cb	7.2	301.9
1/4	7.9	301.2
℄	9.2	299.9
1/4	10.6	298.5
cb	11.4	297.7
W	12.0	297.1

N. 1/4

W	11.0	298.1
cb	10.3	298.8
1/4	9.6	299.5
℄	8.5	300.6

309.12

indexed
C.S.K.

47

1/4	7.3	301.8
cb	6.6	302.5
E	6.1	303.0

℄

E	5.7	303.4
cb	6.3	302.8
1/4	7.0	302.1
℄	7.8	301.3
1/4	8.7	300.4
cb	9.6	299.5
W	10.5	298.6

S. 1/4

W	9.7	299.4
cb	8.9	300.2
1/4	8.0	301.1
℄	7.1	302.0
1/4	6.5	302.6
cb	6.0	303.1
E	5.4	303.7

S. cb

E	5.3	303.8
cb	5.7	303.4
1/4	6.4	302.7
℄	6.6	302.5
1/4	7.4	301.7
cb	8.1	301.0
W	8.7	300.4

309.12

0+00 = S. Line Thorn.

W	8.1	301.0
cb	7.5	301.6
1/4	6.9	302.2
℄	6.3	302.8
1/4	6.0	303.1
cb	5.3	303.8
E	4.8	304.3
0+50		
E	4.3	304.8
cb	4.7	304.4
1/4	4.8	304.3
℄	4.7	304.4
1/4	5.6	303.5
cb	5.9	303.2
W	6.2	302.9
1+00		
W	5.4	303.7
cb	5.3	303.8
1/4	5.0	304.1
℄	4.9	304.2
1/4	4.6	304.5
cb	4.6	304.5
E.	4.2	304.9

309.12

38th

1+50

E	4.0	305.1
cb	4.6	304.5
1/4	4.9	304.2
℄	5.1	304.0
1/4	5.0	304.1
cb	5.1	304.0
W.	5.3	303.8
2+00		
W.	5.9	303.2
cb	5.7	303.4
1/4	5.5	303.6
℄	5.4	303.7
1/4	5.2	303.9
cl	5.0	304.1
E	4.9	304.2
2+50		
E	5.3	303.8
cb.	5.5	303.6
1/4	5.7	303.4
℄	5.9	303.2
1/4	6.2	302.9
cb	6.3	302.8
W.	6.3	302.8

309.12

3+00

W.	7.6	301.5
cl	7.3	301.8
1/4	7.2	301.9
℄	7.1	302.0
1/4	7.0	302.1
cl	6.7	302.4
E.	6.6	302.5

3+50

E	7.9	301.2
cl	8.2	300.9
1/4	8.3	300.8
℄	8.5	300.6
1/4	8.6	300.5
cl	8.6	300.5
W.	8.8	300.3

4+00

W	10.8	298.3
cl	10.6	298.5
1/4	10.4	298.7
℄	10.3	298.8
1/4	10.3	298.8
cl	10.3	298.8
E	10.0	299.1

309.12

38 TH

49

4+50

E	10.8	298.3
cl	11.5	297.6
1/4	12.0	297.1
℄	12.4	296.7
1/4	12.7	296.4
cl	13.6	295.5
W.	14.4	294.7
T.P.	0.44	297.70	11.86	297.26

5+00

W.	4.9	292.8
cl	4.0	293.7
1/4	3.7	294.0
℄	2.9	294.8
1/4	2.3	295.4
cl	1.7	296.0
E	1.3	296.4

5+50

E	5.6	292.1
cl	6.3	291.4
1/4	7.0	290.7
℄	7.9	289.8
1/4	7.3	290.4
cl	7.0	290.7
W	7.0	290.7

297.70

5+75

W			9.8	287.9
cb.			9.0	288.7
1/4			10.2	287.5
℄			9.9	287.8
1/4			9.3	288.4
cb			8.0	289.7
E			7.4	290.3
	5+98.5 = N Line Redwood.			
℄			9.1	288.6
cb.			9.9	287.8
1/4			11.6	286.1
℄			13.7	284.0
1/4			13.6	284.1
cb			11.0	286.7
W.			10.5	287.2
T.P.	10.94	306.27	2.37	295.33
chK. BM BP	N.W. 40 ± Redwood.		3.30	302.97
B.M. Nail. Pole			4.61	301.66

S. W. 39.5 ± Redwood.

80' Wide
14' elv.
13' 1/4s

39th St. X See Redwood. South.

PLOTTED 5-11-36

BM Nail Pole	4.84	306.50		301.66	S.W. 39th & Redwood
		N. Line Redwood.			
W			3.7	302.8	
elv			3.8	302.7	
1/4			3.7	302.8	
℄			3.6	302.9	
1/4			3.4	303.1	
elv			3.3	303.2	
E			2.9	303.6	
		N. elv.			
E			3.2	303.3	
elv			3.6	302.9	
1/4			3.8	302.7	
℄			4.0	302.5	
1/4			4.1	302.4	
elv			4.3	302.2	
W			4.5	302.0	
		N 1/4			
W			4.9	301.6	
elv			4.5	302.0	
1/4			4.3	302.2	
℄			4.3	302.2	
1/4			4.0	302.5	
elv			3.8	302.7	
E			3.5	303.0	

Indexed C.S.K.

51

306.50 ℄

E	3.7	302.8
elv	4.0	302.5
1/4	4.3	302.2
℄	4.6	301.9
1/4	4.8	301.7
elv	5.0	301.5
W	5.3	301.2
	S. 1/4	
W	5.8	300.7
elv	5.3	301.2
1/4	4.9	301.6
℄	4.7	301.8
1/4	4.1	302.4
elv	3.8	302.7
E	3.5	303.0
	S. elv.	
E	3.5	303.0
elv	4.1	302.4
1/4	4.4	302.1
℄	4.8	301.7
1/4	5.0	301.5
elv	5.3	301.2
W	5.7	300.8

306.50

0+00 = S. Line Redwood St.

W	5.3	301.2
el	4.6	301.9
1/4	4.8	301.7
℄	4.8	301.7
1/4	4.5	302.0
el	4.3	302.2
E	4.0	302.5
0+50		
E	4.0	302.5
el	4.4	302.1
1/4	5.0	301.5
℄	5.1	301.4
1/4	5.1	301.4
el	5.4	301.1
W	5.6	300.9
1+00		
W	5.8	300.7
el	5.6	300.9
1/4	5.3	301.2
℄	5.2	301.3
1/4	5.2	301.3
el	5.1	301.4
E	4.9	301.6

39th St.

306.50

1+50

E	5.6	300.9
el	5.4	301.1
1/4	5.6	300.9
℄	5.9	300.6
1/4	5.9	300.6
el	5.9	300.6
W	6.1	300.4
2+00		
W	7.7	298.8
el	7.0	299.5
1/4	7.5	299.0
℄	7.2	299.3
1/4	7.0	299.5
el	6.9	299.6
E	7.2	299.3
2+50		
E	8.4	298.1
el	8.6	297.9
1/4	8.7	297.8
℄	9.3	297.2
1/4	9.5	297.0
el	9.6	296.9
W	9.1	297.4

306.50

		3+00		
W			12.0	294.5
ch			11.6	294.9
¼			11.5	295.0
℄			11.3	295.2
¼			11.0	295.5
ch			10.3	296.2
E			10.0	296.5
		3+50		
E			11.4	295.1
ch			11.8	294.7
¼			12.2	294.3
℄			13.0	293.5
¼			13.5	293.0
ch			13.8	292.7
W			15.6	290.9
T.P.	0.00	293.90	12.60	293.90
		4+00		
W.			3.8	290.1
ch			3.0	290.9
¼			2.4	291.5
℄			1.9	292.0
¼			1.0	292.9
ch			0.5	293.4
E			+0.4	294.3

39th St

53

293.90

	4+50	
E	1.5	292.4
ch	2.0	291.9
¼	3.1	290.8
℄	4.0	289.9
¼	4.4	289.5
ch	5.5	288.4
W	6.5	287.4
+10.	7.3	286.6
	5+00	
-10	10.6	283.3
W	9.7	284.2
ch	8.8	285.1
¼	7.4	286.5
℄	6.8	287.1
+9	6.0	287.9
+10	5.1	288.8
¼	4.8	289.1
ch	4.5	289.4
E	3.3	290.6
	5+50	
E.	4.5	289.4
ch	5.6	288.3
¼	7.0	286.9
℄	8.0	285.9
¼	9.2	284.7
ch	9.8	284.1
W	11.0	282.9

293.90

5+98.20 = N. Line Quince st

W	11.9	282.0
cb	10.5	283.4
¼	9.5	284.4
℄	8.5	285.4
¼	7.6	286.3
cb	6.8	287.1
E	6.4	287.5

N. cb

E	7.1	286.8
cb	7.2	286.7
¼	7.8	286.1
℄	8.9	285.0
¼	9.6	284.3
cb	10.3	283.6
W	11.7	282.2

N. ¼

W	11.8	282.1
cb	10.5	283.4
¼	9.9	284.0
℄	9.4	284.5
¼	8.2	285.7
cb	8.0	285.9
E	7.9	286.0

293.90

39th St

℄ Quince

E	8.8	285.1
cb	9.3	284.6
¼	9.3	284.6
℄	10.1	283.8
¼	10.4	283.5
cb	11.0	282.9
W	11.8	282.1

5. ¼

W	12.0	281.9
cb	11.4	282.5
¼	11.1	282.2
℄	10.8	283.1
¼	10.3	283.6
cb	10.3	283.6
E.	10.0	283.9

5. cb.

E.	10.8	283.1
cb	11.6	282.3
¼	11.2	282.7
℄	11.7	282.2
¼	11.9	282.0
cb	12.0	281.9
W	12.4	281.5

29390

0+00 = S. line Quincee

W			13.5	280.4
cl			13.0	280.9
1/4			13.2	280.7
℄			12.8	281.1
1/4			12.2	281.7
cl			12.5	281.4
E			12.2	281.7
T.P.	0.48	281.56	12.82	281.08

0+50

E			1.8	279.8
cl			2.7	278.9
1/4			4.0	277.6
℄			4.3	277.3
1/4			4.8	276.8
cl			5.3	276.3
W			6.2	275.4

1+00

W			8.5	273.1
cl			8.4	273.2
1/4			7.9	273.7
+10			7.4	274.2
℄			6.3	275.3
1/4			5.2	276.4
cl			4.2	277.4
E			2.9	278.7

281.56

39½ St.

55

1+50

E.	5.0	276.6	
cl	6.0	275.6	
1/4	7.2	274.4	
℄	8.1	273.5	
1/4	9.1	272.5	
cl	9.8	271.8	
W.	10.4	271.2	*D29203-T. 3' E of W line at sta 1+50
BM. Nail Pole	9.59	271.97	

2+00

W.	12.9	268.7	
cl	12.4	269.2	
1/4	11.5	270.1	
℄	10.9	270.7	
1/4	10.5	271.1	
cl	9.7	271.9	
E.	8.5	273.1	

2+50

E	10.9	270.7	
cl	11.8	269.8	
1/4	12.2	269.4	
℄	13.0	268.6	
1/4	13.7	267.9	
cl	14.0	267.6	
W.	14.4	267.2	

281.56

T.P.	3.20	272.45	12.31	269.25
		3+00		
W			6.2	266.3
el			5.7	266.8
1/4			5.4	267.1
℄			4.7	267.8
1/4			4.4	268.1
el			4.0	268.5
E.			3.2	269.3
		3+50		
E			4.4	268.1
el			4.8	267.7
1/4			5.4	267.1
℄			5.9	266.6
1/4			6.2	266.3
el			6.8	265.7
W			7.1	265.4
		4+00		
W			8.2	264.3
el			7.9	264.6
1/4			7.2	265.3
℄			6.9	265.6
1/4			6.7	265.8
el			6.7	265.8
E			7.0	265.5

272.45

39th St

4+50

56

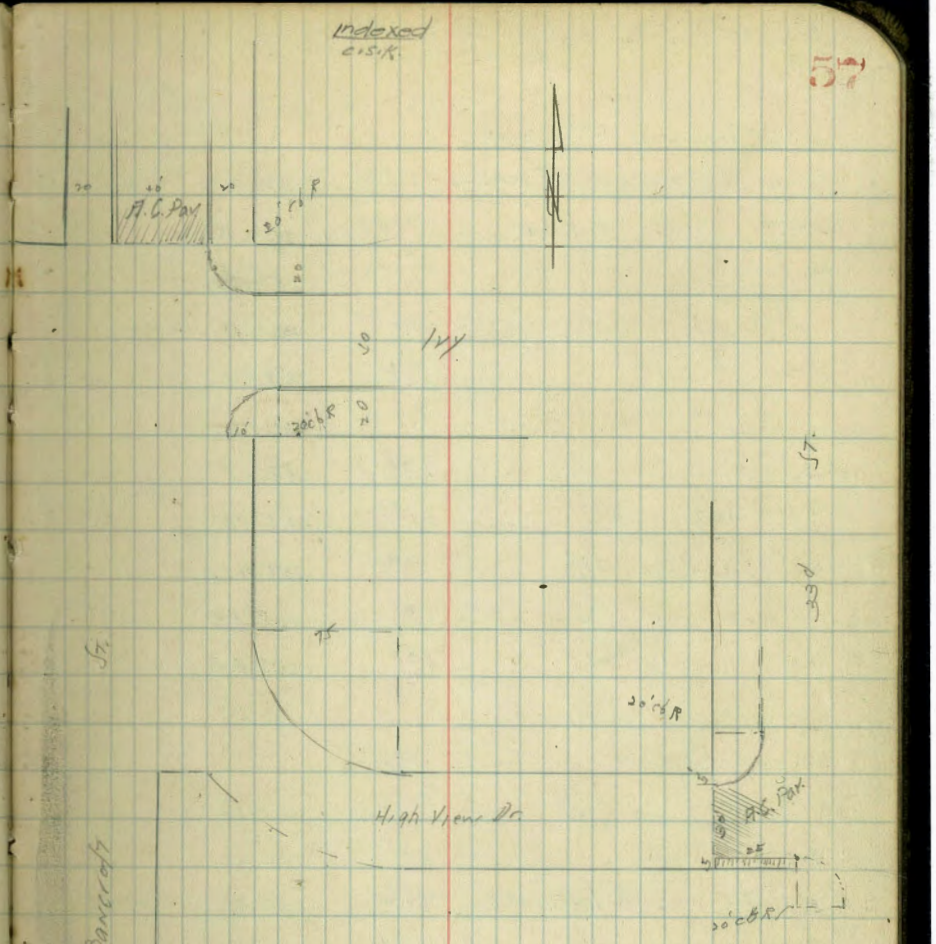
E			11.8	260.7
el			10.7	261.8
1/4			10.3	262.2
℄			9.9	262.6
1/4			10.0	262.5
el			10.2	262.3
W			10.5	262.0
		5+00		
W			13.5	259.0
el			14.0	258.5
1/4			15.0	257.5
℄			15.5	257.0
1/4			16.5	256.0
el			17.0	255.5
E.			18.0	254.5
+10			22.0	250.5
T.P.	12.51	284.81	0.15	272.30
T.P.	12.47	297.02	0.26	284.55
T.P.	10.28	306.80	0.50	296.52
B.M. Nail in Pole			5.14	301.66

S.W. 39th + Redwood

Levels on Returns at Ivy & Bancroft & 33rd & Highview

Macro 5-20-86

N.E.B.P.	0.31	287.25		286.94	Ivy Bancroft
N.L. Ivy at Bancroft					
W/b Top			0.80	286.45	
gut pav.			1.35	285.90	
1/4 "			0.79	286.46	
C "			0.63	286.62	
1/4 "			0.71	286.54	
gut "			1.01	286.24	
E/b Top = P.C. r/b return			0.32	286.92	
Part #1			0.69	286.56	
" #2 & #3 parts of 7.86			0.91	286.34	
" #3			0.98	286.27	
" #4 = E.C.			0.94	286.33	
E.C. + 20' E			0.71	286.54	
S.E. Return of Ivy & Bancroft					
P.C. return on S/L Ivy			3.56	283.69	
#1			3.25	284.00	
#2	Parts = 7.86		2.85	284.40	
#3			2.47	284.78	
#4 = E.C.			2.30	284.95	
E.C. + 20' E			2.15	285.10	
T.P.	3.01	277.93	13.03	274.92	
24.44 E of E.C. = SW Cor of Lot 3			1.1	276.13	
10' E of SW Cor " " "			1.1	276.13	



277.2

NW Return of 33rd N Highview Dr.

N'ly of N. of Highview - P.C. of Return	6.86	270.37	Top of cb
" " " " " gut Bar.	7.50	269.73	
#1 cb	7.52	269.71	
" gut	8.12	269.11	
#2 cb	7.93	269.30	
" gut	8.50	268.73	
#3 cb	7.98	269.25	
" gut	8.53	268.70	
#4 cb end W.L 33rd	7.82	269.41	
" gut " "	8.41	268.82	
E Highview + W.L 33rd	8.38	268.85	on bar

SW Return

Top cb } W.L 33rd to N.	8.30	268.93	
gut }	8.82	268.41	
28' E - P.C. of 30R Return	9.36	267.87	Top of cb
" " gut	9.86	267.37	
#1 cb	9.88	267.35	
" gut	10.36	266.87	
#2 cb	10.48	266.75	
" gut	10.92	266.30	
#3 cb	10.96	266.27	
" gut	11.49	265.74	
#4 cb - EC cb return	11.46	265.77	
" gut	11.97	265.26	

Indexed C.S.K.

X Sec. Alley Blk. 153 Univ. Hts

9-11-36 Miller Walker Bldg.

B.M.	4.03	373.99		369.96	S.E. Polk + Idaho
T.P. B.M. B.P.	5.76	374.23	5.52	368.47	N.E. Polk + Utah St.

14' S. of N. Line = N. el. Line Polk.

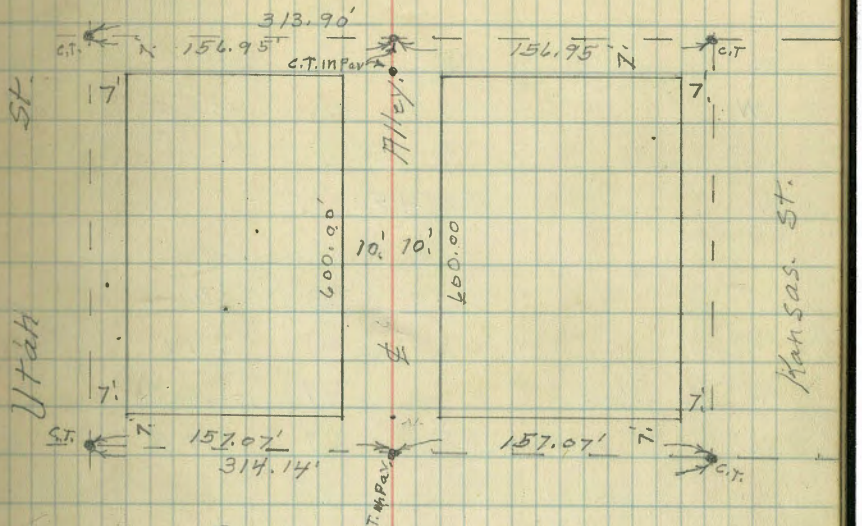
W. -30	cmt. el	5.57	368.66
W -30	gutter pav	6.03	368.20
W	" "	5.84	368.39
W	cmt. el	5.38	368.85
℄	pav	5.78	368.45
E	"	5.72	368.51
E	cmt. el	5.33	368.90
+30	" "	5.40	368.83
+30	pav	5.78	368.45

0+00 = N. Line Polk. Ave

E. cmt. el N. End	5.28	368.95
E Pav. N. End	5.42	368.81
℄ " N. "	5.47	368.76
W Pav. N. "	5.43	368.80
W. cmt. el.	5.31	368.92

0+15 North

W	4.3	369.93
℄	4.3	369.93
E	4.2	370.03



℄ 374.23

0+44 garage on E. cmt. floor 2' Back

E-2 = floor	3.49	370.74
E	3.8	370.4
℄	3.9	370.3
W	4.1	370.1

1+09 N.

W	4.0	370.2
℄	4.0	370.2
E	4.0	370.2

374.23

1+30

E		4.0	370.2
℄		3.9	370.3
W		3.8	370.4

1+45

W		3.3	370.9
℄		3.1	371.1
+5		3.7	370.5
E		3.7	370.5

1+60

E		3.6	370.6
℄		4.0	370.2
W		3.8	370.4

From 1+50 to 1+90. Wooden Fence on W. 0.3' in Alley

From 1+90 to 2+00 Shed on W. 0.3' in Alley

2+00

W		3.6	370.6
℄		3.8	370.4
E		3.5	370.7

374.23 Alley Blk 1534. H

60

2+25

E		3.9	370.3
℄		4.1	370.1
W		3.9	370.3

2+50

W		3.2	371.0
℄		3.1	371.1
E		3.7	370.5

2+80

E		3.7	370.5
℄		3.9	370.3
W		3.8	370.4

3+00

W		3.8	370.4
℄		3.8	370.4
E		3.4	370.8
T.P.	5.90	376.42	3.71	370.52

3+50

E		5.6	370.8
℄		5.7	370.7
W		5.8	370.6

4+00

W		5.4	371.0
℄		5.4	371.0
E		5.7	370.7

4+50

E		5.3	371.1
℄		5.3	371.1
W		5.3	371.1

4+77 S.End 6 garages on W. conc. floor 4.8 Back

N - 4.8	floor	4.57	371.85
W		4.6	371.8
℄		5.0	371.4
E		5.0	371.4

5+29 = N. End above Garages - 4.7 Back

E		5.1	371.3
℄		5.0	371.4
W		5.0	371.4
W+	= floor	4.83	371.59

5+31 garage on E. dirt floor 5.0 Back

E-5	= floor	5.00	371.4
W+	℄ 36" cmt. walk	4.72	371.7

5+48

W-2.6	℄ 3' cmt. walk	4.46	371.96

5+50

W		4.6	371.8
℄		4.7	371.7
E		5.1	371.3

5+70

E		5.0	371.4
℄		4.7	371.7
W		4.4	372.0

5+95

W		4.3	372.1
℄		4.9	371.5
WE		4.8	371.6

6+00 = S. line Howard Ave

E. cmt. el	S. End.	4.50	371.92
E. pav.	" "	4.95	371.47
℄ "	" "	4.92	371.50
W "	" "	4.74	371.68
W. cmt. el.	" "	4.37	372.05

6+14 = S. Cor. Line

W-30	pav	4.63	371.79
W.-30	cmt. el	4.25	372.17
W	" "	4.52	371.90
W.	Pav.	4.97	371.45

376.42

S. ch. Line Howard.

℄	pav.	4.97	371.45	
E.	"	5.08	371.34	
℄	cmt. ch	4.62	371.80	
+30	" "	4.79	371.63	
+30	pav.	5.30	371.12	
B.M. Nail/Pole	5.03	377.43	4.02	372.40	W. Alley S. ch. Howard
B.M. B.P. S.E. Idaho & Howard.			4.44	372.99	= 373.01

Grades.

Howard.

	W	E
6+00	371.64	371.47
6+70	369.56	369.36
6+50	369.43	369.25
6+30	369.21	369.09
6+00	368.80	368.81

Polk Ave

Re. X See Alley Blk 197 U.H.
See F.B. 1381-57.
for Culvert see Page 69.

9-17-36
Miller
Walker
Bliss

S.E. Lincoln & Louisiana

B.M. B.P.	1.07	301.07		300.00
T.P.	5.20	293.62	12.65	288.42
Set BM Nail Pole			6.45	287.17

S. ch. Lincoln
E. Line Alley

6+05.5 = 6' N. of S. Line Lincoln = S. End Pav + ch pnt

E-0.3	cmt. ch	6.70	286.92
E-0.3	pav	6.87	286.75
℄	"	6.91	286.71
+9.6	"	6.59	287.03
+9.6'	cmt. ℄	6.37	287.25

5+99.5 = S. Line Lincoln

W		6.6	287.0
℄		6.8	286.8
E		7.0	286.6

From Sta 5+93 to 6+05.5 Nice Cypress Hedge on E. 1.0' in alley could be saved by excepting strip 12.5' Long by 1.6 Wide

5+71

E			8.9	284.7
℄			8.9	284.7
W			8.6	285.0
T.P.		2.41	8.73	284.89

Indexed
C.S.K.

287.30

5+56 Garage on W. cmt. floor 19.0' Back

W-19.0' = floor		3.20	284.1

5+42 Garage on E. cmt. floor 4.8 Back

W.			283.0
℄			283.2
+6.8 cmt. apron		3.89	283.41
E " "		3.54	283.74
+6.8 " " + floor		3.25	284.05

5+27 ℄ Double garage on W. Dirt floor 6' Back

W-6 = floor		5.7	281.6

5+13 Double garage on E cmt. floor 7.7 Back

E-7.7 = floor		3.83	283.47
E		5.0	282.3
℄		5.8	281.5
W		5.8	281.5
+10		6.5	280.8

5+00

W-10		6.4	280.9
W		6.5	280.8
℄		6.5	280.8
E		6.3	281.0
+10		5.2	282.1

		287.30						
		4+70						
E- 10			6.0	281.3	BM. B.P. 0.02	282.01	281.99	S.E. Linis & Miss
E			6.4	280.9	T.P. 8.45	283.98	4.48 275.53	
+3			7.0	280.3				
℄			7.1	280 2	From 1+77 to 2+22 5 New Garages on W.			
W			7.2	280.1	cmt. floors 2.2' Back			
+10			7.2	280,1				
	4+45 garage on E. cmt. floor			2.5 Back	1+81.5 ℄ 1 = floor		4.57	279.41
-10			7.6	279.7	1+90.5 ℄ 2 = "		4.24	279.74
W			7.4	279.9	1+99.5 ℄ 3 = "		4.27	279.71
℄			7.2	280,1	2+08.5 ℄ 4 = "		3.76	280.22
E			7.0	280.3	2+17.5 ℄ 5 = "		3.76	280.22
+2.5 = floor			6.61	280,69				
	4+30							
-10			7.0	280.3				
E			7.5	279.8				
E+4			7.1	280.2				
℄			7.0	280.3				
W			7.1	2802				
+10			7.7	279.6				
		4+00						
W.			5.6	281.7 ✓				
℄			5.8	281.5 ✓				
E			5.7	281.6 ✓				
	From 4+00 South. No change.							

X See. Alley Blk. K. U.H. Sub. PL1113 — 12-22-36 Miller Walker

Suncrest to Copley East of Kansas.

BM, B.P	3.90	392.94 ✓	389.04	S.E. 30th & Adams.

14' S of N. Line = N. el. Line Suncrest Dr

W-25	Top. el	4.96	387.98
W-25	gutter pav	5.56	87.38
W	" "	5.60	387.34
W.	Top. el.	5.07	387.87
℄	pavmt.	5.67	387.27
E	"	5.78	387.16
E	Top. el	5.17	387.77
+25	" "	5.21	387.73
+25	gutter pav	5.94	387.00

T.P. Nails in Pole	3.87	392.41 ✓	4.40	388.54

S. Curb Suncrest W. Line Alley E. of Kansas

0+00 = N. Line Suncrest. = N. End. cmt. ebs + Pavmt.

E. cmt. el.	4.29	388.12
E. pavmt.	4.50	387.91
℄ "	4.72	387.69
W "	4.55	387.86
W. cmt. el	4.38	388.03

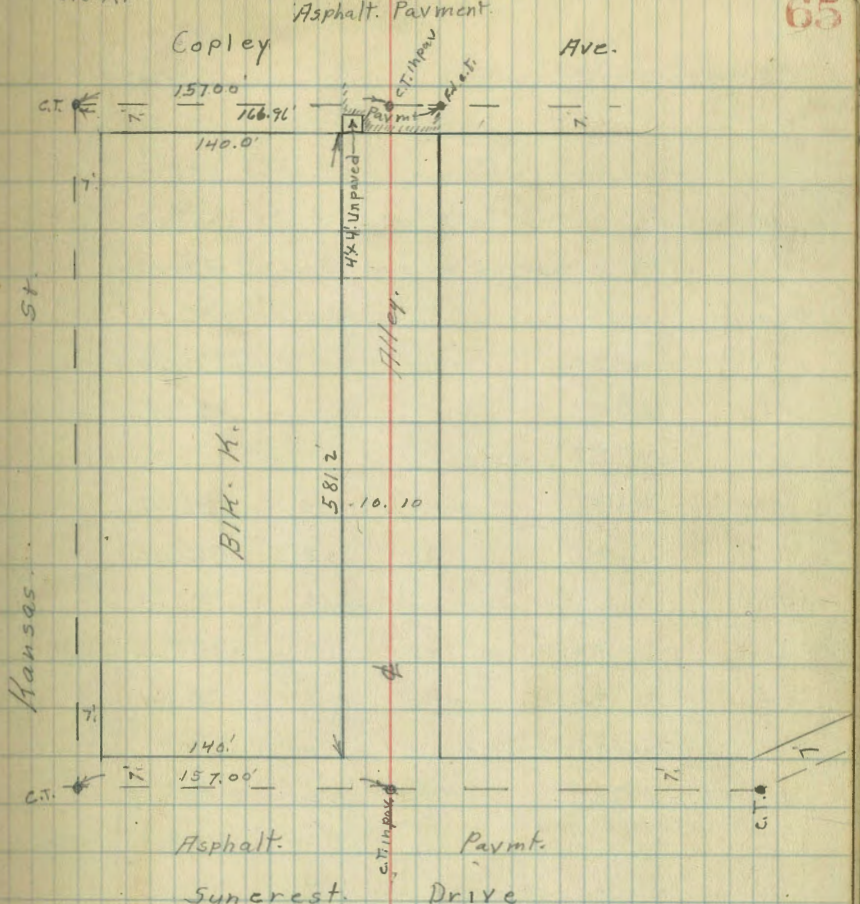
0+10 N.

W.	4.2	388.2
℄	4.6	387.8
E	4.7	387.7

From 0+00 To 0+70 Wire Fence on E. 1.3' in Alley

Indexed C.S.K.

65



392.41

0+50N

E -5		5.8	386.6
E		5.4	387.0
℄		5.6	386.8
W.		5.1	387.3
0+93. garage on W. cmt. floor		13.5 Back	
W-4.6'	cmt. apron	5.72	386.69
W-8	" "	5.41	387.00
W-13.5	floor	5.3	387.1
1+00			
W-5		6.0	386.4
W		6.3	386.1
℄		6.6	385.8
E		6.8	385.6
+5		7.3	385.1
1+19 garage on E. dirt floor		1.7 Back	
E -1.7 = floor.		7.2	385.2
E		7.2	385.2
℄		6.9	385.5
W.		6.2	386.2

1+03. Proposed Drain

E. = 0+00		6.8	385.6
0+23		8.2	384.2
0+43		10.2	382.2
0+45		11.7	180.7
0+50		13.2	379.2

392.41

1+50

W -5		6.0	386.4
W		6.2	386.2
℄		6.8	385.6
E		7.2	385.2
+5		7.3	385.1
2+00			
-5		6.8	385.6
E		6.8	385.6
℄		6.6	385.8
W		6.0	386.4
+5		5.8	386.6
2+50			
-5		5.6	386.8
W		5.4	386.8
℄		6.1	386.3
E		6.4	386.0
+5		6.5	385.9
2+81			
℄ Top. M.H.		5.21	387.20
3+00			
-5		5.2	387.2
E		5.2	387.2
℄		4.9	387.5
W		4.2	388.2
T.P.	5.88	393.94 ✓	4.35	388.06

393.94

3+50

W.	5.8	388.1
℄	5.8	388.1
E	6.2	387.7

3+57

W. - 0.3 = S. End. 24" cmt. walk	5.64	388.30

4+00

E	5.5	388.4
℄	5.5	388.4
W.	5.4	388.5

4+50

W	5.3	388.6
℄	5.4	388.5
E	5.6	388.3

4+? garage on W. cmt Floor 4.3' Back

W - 4.3 = floor.	4.18	389.76

5+00

E	5.0	388.9
℄	4.9	389.0
W	4.8	389.1

5+30 garage on W. 0.6 Back.

W - 0.6 = floor	4.3	389.6

5+39. S. End. cmt. walk on W.

9.' W. of ℄ = Walk	4.04	389.90

5+44. S. End. Dwelling on W. 0.6 Back

393.94

5+52.6 = S. End. cmt step on W.

W walk to S.	4.05	389.89
+1.0' " " " E. edge	4.15	389.79
+2.5' S.E. cor cmt. step	4.15	389.79
℄	4.3	389.6
+8	4.0	389.9
E.	4.8	389.1

5+55 = S. End. cmt. porch

7.5' W. of ℄ N.E. cor step.	4.15	389.79
7.5' " " " S.E " porch.	3.25	390.69

5+59.6 N. End. cmt. porch.

7.5' W. of ℄ = N.E Cor. porch	3.25	390.69

5+72.7 = N. End. Dwelling on W. 0.6 Back

E	4.8	389.1
℄	4.7	389.2
W.	4.2	389.7
+0.6 = N. E. Cor Dwelling	4.2	389.7

5+81.2 = S. Line Copley Ave

W. S. End. cmt. ch. 4" dirt	4.51	389.43
+4. paymt	5.14	388.80
℄ "	5.40	388.54
E. "	5.30	388.64

5+85.2

E = S. End. cmt. ch.	4.94	389.00
E. paymt.	5.37	388.57
℄ "	5.53	388.41
+6 "	5.31	388.63

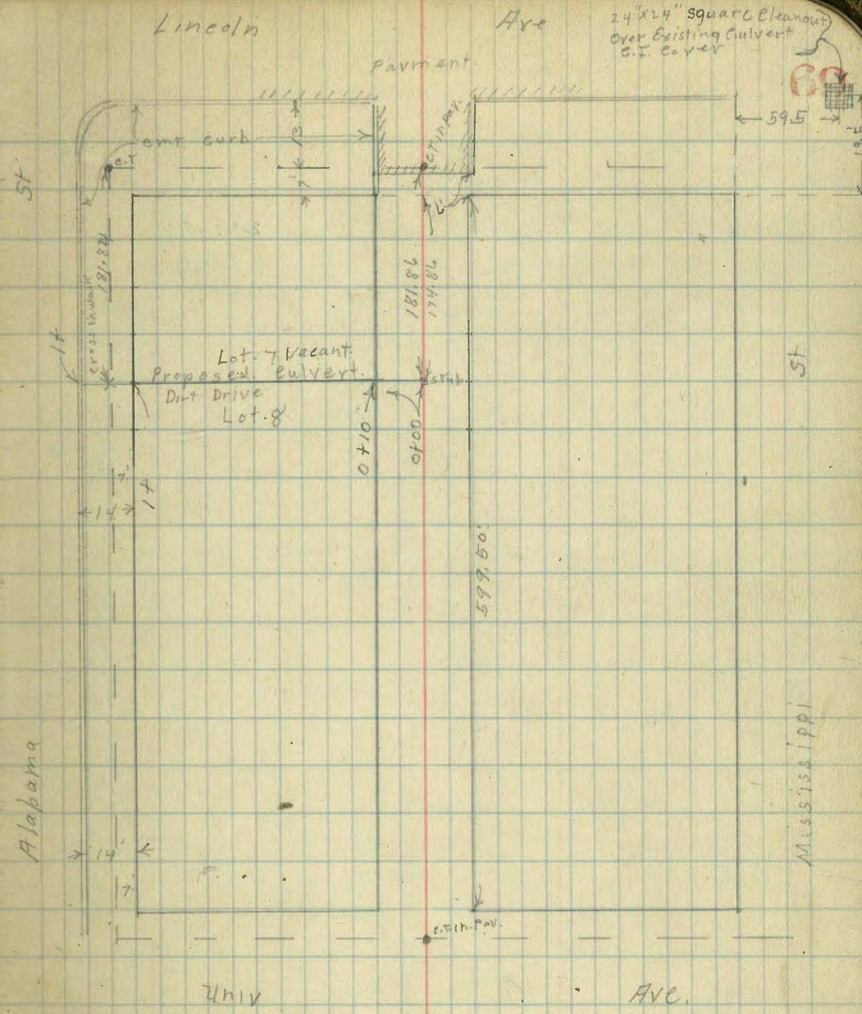
67

		393.94		
5+85± (con)				
W. Line pav			5.08	388.86
W " cmt. cb			4.68	369.26
5+95± = S. cb. Line Copley.				
N. cmt. cb			5.06	388.88
W. pav.			5.64	388.30
℄ "			5.80	388.14
E "			5.82	388.12
E. cmt. cb			5.10	388.84
E + 5' pav.			5.90	388.04
T.P.	3.25	390.38	6.81	387.13
Spk. Pole S. cb. Suncrest W. Alley			1.84	388.54 ✓
" "	3.75	392.29		388.54
Orig B.M.			3.25	389.04 ✓

4-18-37
Miller
Walker
Bliss

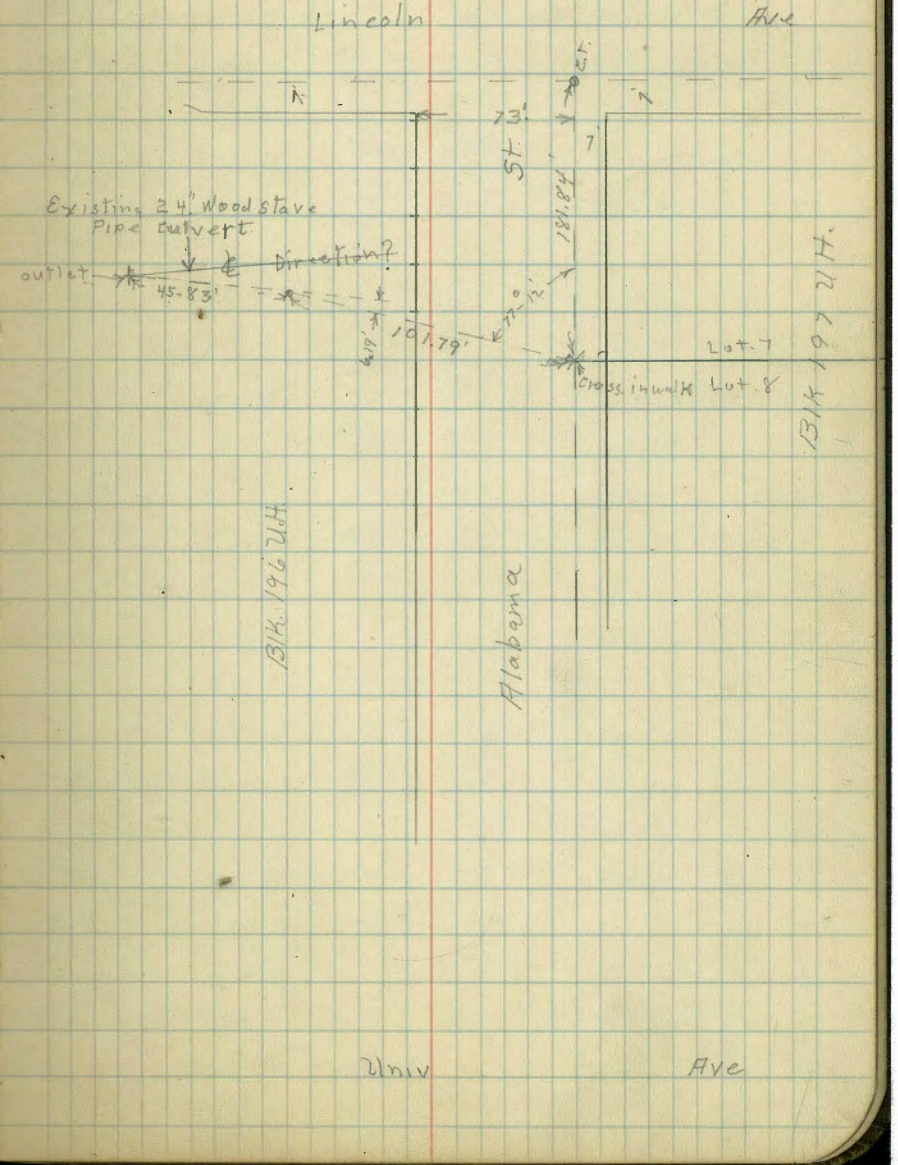
Alley Blk. 197 U.H.
See Page 70

B.M. Nails pole	1.63	288.80		287.17
T.P.	2.64	283.08	8.36	280.44
0+00 = stub {on Line bet. Lots 7 & 8, ℄ Alley 174.86 S. of S. Line Lincoln			2.64	280.44
0+10 = W. Line Alley			2.1	281.0
0+10.50 = 1' N. of N.E. Cor Garage.			2.2	280.9
0+27.6 = 1' N. of N.W. " "			3.4	279.7
0+50			3.7	279.4
1+00			3.9	279.2
1+25			4.1	279.0
1+49.95 {Line Bet. Lots 7 & 8, E. Line Alabama			4.7	278.4
1+56.95 on cross. E. 7' Line			4.91	278.17
1+64 = E. Curb Line Top. ch			5.13	277.95
1+64 = E. " " gutter pav.			5.75	277.33
S. on E. Curb Line of Alabama				
2+00 gutter			6.10	
2+50 "			6.76	
3+00 "			7.40	
3+48 "			8.13	
3+48 Top of ch. at apparent Brk.			7.27	275.81
T.P.	1.79	273.11	11.76	271.32
chk B.M. B.P. N.W. Univ & Alabama			7.21	265.90 = 265.96



Location of Outlet 24" Culvert
In Blk. 196 Univ. Hts.
See Page 69.

B.M. Top of Curb	3.21	281.16		277.95	sta. 1+64 Page 69
Outlet End 24" Wood Stave Pipe			20.16	261.00	



Moore 12-10-37

Xsec alley 20' wide
Blk 12 City Hts. Gurney #1
Bet. Highland + 45th
Dwight to Landis

N.W. B.P.	4.94	353.31		348.37	Dwight 45th
0-14 N. cb Dwight					
curb	NW	Dwight 45th	4.99	348.32	Top cb.
pav.	" "	"	5.49	347.82	
E.L. alley			5.31	348.00	
W.L. ..			5.38	347.93	
Top cb	NE. Cor	Dwight Highland	5.77	347.54	
pav	"		6.14	347.17	
0+00 N.L. Dwight					
W Top cb			5.07	348.24	
C			5.1	348.2	
E ground			4.6	348.7	
E Top cb			5.08	348.23	
0+10					
E			3.8	349.5	
C			4.4	348.9	
+6			4.3	349.0	
W			3.8	349.5	
0+30					
W			3.2	350.1	
C			3.4	349.9	
E			2.9	350.4	
0+50					
E			2.9	350.4	
C			3.0	350.3	

indexed C.S.K.

353.31

W			2.9	350.4	
	0+66				
-7	S.W. gar cem. fl.		2.63	350.68	
W			2.6	350.7	
C			2.6	350.7	
E			2.4	350.9	
T.P.	5.72	356.66	5.37	350.94	
	0+88				
E-5	S edge dble gar		5.57	351.09	cem fl.
E	" apron		5.77	350.89	
C			5.5	351.2	
W			5.4	351.3	
	0+98				
W			5.3	351.4	
C			5.2	351.5	
E	apron		5.52	351.14	
+5	N edge gar.		5.51	351.15	
	1+08				
E-5	S.W. gar cem.		5.51	351.15	
E			5.4	351.3	
C			5.3	351.4	
W			5.1	351.6	

356.66

	1+50		
W		5.2	351.8
C		4.8	351.9
E		5.1	351.6
	1+60		
E -5	S.W. gar. cem.	4.85	351.81
E	apron "	5.13	351.53
C		4.9	351.8
W		5.2	351.5
	1+90		
-2	S.W. gar. dirt	5.1	351.6
W		5.1	351.6
C		4.9	351.8
E		5.0	351.7
	2+15		
E		4.4	352.3
C		4.7	352.0
W		4.9	351.8
	2+42		
W	S edge gar cem	4.87	351.79
-4		4.72	351.84
	2+60		
-4	N edge gar. cem	4.60	352.06
W	apron "	4.69	351.97
C		4.8	351.9
E	S.W. gar cem	4.88	351.78

.7 inaccy

356.66

	2+70		
E	S.W. gar. dirt	4.70	351.96
	3+00		
E		4.5	352.2
C		4.7	352.0
W		4.7	352.0
	3+50		
W		5.0	351.7
C		4.4	352.3
E		4.5	352.2
	3+67		
E		4.7	352.0
C		4.4	352.3
W		4.5	352.2
+4	S.W. gar. Cem	4.45	352.21
	4+00		
W		4.1	352.6
C		4.9	351.7
E		5.2	351.5
	4+20		
E		4.8	351.9
C		4.9	351.8
W		4.6	352.1
+1.5	apron cem.	4.60	352.06
+4	S.W. gar "	4.41	352.25

356.66

4+44

-4	S.M. gar.	cem.	4.44	352.22	
W			4.9	351.8	
C			4.9	351.8	
E			5.0	351.7	
	4+93				
E			5.6	351.1	
C			5.4	351.2	
W	apron	cem.	4.68	351.98	
+3	S.M. gar	"	4.33	352.33	
T.P.	3.10	354.25	5.51	351.15	
	5+56				
-35	S.M. gar.	cem.			
W	E cem. ribbon		3.11	351.13	
C			3.4	350.9	
E			3.5	350.8	
E+4	E M	"	3.53	350.72	
+25	S.M. gar.	cem.			
	5+80				
E			4.0	356.3	
C			3.9	350.4	
W			3.3	351.0	

354.25

73

5+90				
W		3.2	351.1	
+6		4.5	349.8	
C		4.6	349.7	
E		4.3	350.0	
6+00 = St Landis				
E	cb top	6.43	347.82	
C		5.6	348.7	
W	cb "	5.57	348.68	
6+14	St cb line Landis			
W gate	Top cb	5.84	348.41	
E	" "	6.72	347.53	Est. Gr.
W 45	" "	11.33	342.92	343.0
"	" Pav.	11.75	342.50	
E	Highland cb.	1.42	352.83	352.90
"	" Pav.	1.98	352.27	

Senior Levels
Pl. 174 - 175
P.35.

Moore
1-17-38.

74

							106.32		
	1.26	120.34 ✓		119.08	Rim M.H.	5+50		14.7	91.6
T.P.	0.30	108.43 ✓	12.21	108.13 ✓		+75		15.9	90.4
						6		15.0	91.3
6+00	ground		1.2	107.2		T.P.	3.07	94.44	12.95	93.37
+50			2.6	105.8						
1			4.2	104.2		6+30			7.8	88.6
+55			5.2	103.2		+60			13.2	83.2
2			6.9	101.5		+76			18.2	78.2
+25			11.2	97.2		+90			26.8	69.6
+76			20.6	87.8	?	+93			26.7	69.7
+65	bot. ravine		27.1	81.3		7+07			11.5	84.9
+80			20.5	87.9		+15			7.6	88.8
3			16.0	92.4		+30			4.9	91.5
+25			6.4	102.0		+50			4.6	91.8
+50			4.6	103.8		+75			11.9	84.5
						+85			14.1	82.3
T.P.	1.82	106.32	3.93	104.50		8			16.5	79.9
						+23			18.3	78.1
4+00			2.7	103.6		+42			4.0	92.4
+15	on pipe		4.31	102.01						
"	"	Max. 4.37 E of pipe	5.37	100.95						
+50	on P.L.		8.5	97.8						
5+00	"	"	12.6	93.7						
+30	"	"	16.1	90.2						

Inst at Linda 1

Adm Tr - Theo Dome	(1)	43°32'	(12)	522°22'	43°31'50"
Theo. Dome - Soledad		102°40'30"	(12)	1232°05'15"	102°40'26"
U.H. Tank - Adm Tr	(1)	71°55'	(10)	719°11'45"	71°55'10"

Inst at Mission 1

Linda 2 - Linda 3	(1)	24°18'	(6)	145°-50'15"	24°18'22"
Linda 1 - Spire Old Miss.	(1)	96°43'	(6)	580°16'	96°42'40"
Linda 2 - Ventilator Red Barn		43°37	(A)	174°29'	43°37'15"

Inst at Point on City line

Mission 1 - Linda 3	11°27'30"	(6)	68°43'	11°27'10"
Linda 3 - Ventilator on red barn				143°36'30"

Inst at Mission 2

Mission 1 - Linda 2	(1)	26°08'	(6)	156°47'30"	26°07'55"
Linda 2 - Linda 3	(1)	15°47'	(6)	94°48'	15°47'10"
Linda 3 - Pt on City line		105°54'	(6)	635°21'	105°53'30"
Linda 3 - Ventilator on Red. barn		105°34'	(A)	422°14'30"	105°33'38"

Inst at Mission 2

Mission 1	Linda 1	(1)	21°57'30"	(6)	131°47'20"	21°57'53"
Linda 1	Linda 2	(1)	4°10'30"	(6)	25°00'45"	4°10'07.5"
Linda 2	Soledad	(1)	26°20'45"	(6)	158°04'	26°40'40"
Soledad	Chesterton Tank	(1)	50°14'	(6)	301°22'45"	50°13'47.5"
Chesterton Tank	Mission 3	(1)	64°54'	(6)	389°19'30"	64°53'15"
Linda 2	spire old Miss.	(1)	134°39'30"	(6)	807°56'45"	134°39'27.5"

Inst at Mission 3

Mission 1	Marston Spire	(1)	2°43'20"	(6)	16°19'	2°43'10"
Marston Spire	Soledad		44°08'40"	(6)	264°50'50"	44°08'28"
Soledad	chest. Tank		17°42'30"	(6)	106°14'50"	17°42'28"

Inst at Linda 2

Mission 1	Mission 2	(1)	94°48'30"	(6)	568°50'	94°48'20"
Mission 1	Linda 1		72°00'	(6)	431°57'50"	71°59'38"
Marston Spire	Linda 1		48°17'	(6)	289°41'40"	48°16'56"
Mission 2	Old Mission Spire	(1)	21°31'30"	(6)	129°08'	21°31'20"

Inst at Linda 1

Linda 2	Miss. 1		58°05'	(6)	348°30'15"	58°05'02.5"
Chest. Water Tank	Linda 2	(1)	46°08'45	(6)	276°53'50"	48°08'58"
M.B. stack	Linda 2	(1)	90°53'30"	(4)	363°33'45"	90°53'26".

		Inst at Linda 1				
Adm Tr -	Old Twr	(1)	22°53'10"	(12)	3°57'30"	22°58'12.5"
Old Tr -	Ben Mon	(1)	5°56'	(12)	71°17'30"	5°56'27.5"
Ben Mon -	"Mid"	(1)	6°48'40"	(12)	81°41'50"	6°48'29.2"
"Mid" -	Soledad	(1)	110°33'40"	(12)	1326°37'30"	N0°33'07.5"
Adm Tr -	Soledad	(1)	146°12'	(12)	1754°25'	146°12'05"
		Inst at Linda 2				
Old Tr -	Ben. Mon	(1)	6°30'30"	(12)	78°07'	6°30'35"
Ben. Mon -	Theo. D.	(1)	15°06'	(12)	181°14'	15°06'10"
Theo. D -	Soledad	(1)	91°10'20"	(12)	1094°07'20"	91°10'37"
Old Tr -	Soledad	(1)	112°47'20"	(12)	1353°29'20"	112°47'27"
Old Tr -	S Pine Marston M.	(1)	18°35'	(6)	111°30'	18°35"
Old Tr -	U.H. Tank	(1)	96°57'[illegible]"	(16)	1551°15'	96°57'11"
old Tr -	Normal School Bldg	(1)	91°06'40"	(6)	546°37'30	91°06'15"
Old Tr -	Linda 1	(1)	66°51'30"	(10)	668°39'30"	66°51'42"
		Inst at Mission 2				
Linda 1 -	Linda 2	(1)	49°56'	(6)	299°32'30"	49°55'25"
Linda 2 -	Mission 2	(1)	56°37'15"	(6)	339°42'20"	56°37'02"
Linda 2 -	Mission 3	(1)	52°31'	(6)	315°22'45"	52°33'48"
Linda 1 -	Marston Spire	(1)	44°58'15"	(6)	269°48'50"	44°58'08"
Soledad -	Linda 1	(1)	6°02'50"	(6)	36°16'45"	6°02'48"

2

IMPROVED TABLES
AND
INFORMATION

TABLE VI (continued)

SINES, COSINES, TANGENTS, COTANGENTS (continued)

deg.	sin 0′	tan 0′	sin 10′	tan 10′	sin 20′	tan 20′	sin 30′	tan 30′	sin 40′	tan 40′	sin 50′	tan 50′	deg.
46	7193	1.0355	7214	1.0416	7234	1.0477	7254	1.0533	7274	1.0599	7294	1.0661	43
47	314	.0724	333	.0786	353	.0850	373	.0913	392	.0977	412	.1041	42
48	431	.1106	451	.1171	470	.1237	490	.1303	509	.1369	528	.1436	41
49	547	.1504	566	.1571	585	.1640	604	.1708	623	.1778	642	.1847	40
50	660	1.1918	7679	1.1988	7698	1.2059	7716	1.2131	7735	1.2203	7753	1.2276	39
51	771	.2349	790	.2423	808	.2497	826	.2572	844	.2647	862	.2723	38
52	880	.2799	898	.2876	916	.2954	934	.3032	951	.3111	969	.3190	37
53	986	.3270	8004	.3351	8021	.3452	8039	.3514	8056	.3597	8073	.3680	36
54	8090	.3764	107	.3848	124	.3934	141	.4019	158	.4106	175	.4193	35
55	192	.4281	208	.4370	225	.4460	241	.4550	258	.4641	274	.4733	34
56	290	.4826	307	.4919	323	.5013	339	.5108	355	5204	371	.5301	33
57	387	.5399	403	.5497	418	.5597	434	.5697	450	5798	465	.5900	32
58	480	.6003	496	.6107	511	.6212	526	.6319	542	.6426	557	.6534	31
59	572	.6643	587	.6753	601	.6864	616	.6977	631	.7090	646	.7205	30
60	660	1.7321	8675	1.7437	8689	1.7556	8704	1.7675	8718	1.7797	8732	1.7917	29
61	746	.8040	760	.8165	774	.8291	788	.8418	802	.8546	816	.8676	28
62	829	.8807	843	.8940	857	.9074	870	.9210	884	.9347	897	.9486	27
63	910	.9626	923	.9768	936	.9912	949	2.0057	962	2.0204	975	2.0353	26
64	988	2.0503	9001	2.0655	9013	2.0809	9026	.0965	9038	.1123	9051	.1283	25
65	9063	.1445	075	.1609	088	.1775	100	1943	112	.2113	124	.2286	24
66	135	.2460	147	.2637	159	.2817	171	.2998	182	3183	194	.3369	23
67	205	.3559	216	.3750	228	.3945	239	.4142	250	.4342	261	.4545	22
68	272	.4751	283	.4960	293	.5172	304	.5386	315	.5605	325	.5826	21
69	336	.6051	346	.6279	356	.6511	367	.6746	377	.6985	387	.7228	20
70	397	2.7475	9407	2.7725	9417	2.7980	9426	2.8239	9436	2.8502	9446	2.8770	19
71	455	.9042	465	.9319	474	.9600	483	.9887	492	3.0178	502	3.0475	18
72	511	3.0777	520	3.1084	528	3.1397	537	3.1716	546	.2041	555	.2371	17
73	563	.2709	572	.3052	580	.3402	588	.3759	596	.4124	605	.4495	16
74	613	.4874	621	.5261	628	.5656	636	.6059	644	.6470	652	.6891	15
75	659	.7321	667	.7760	674	.8208	681	.8657	689	.9136	696	.9617	14
76	703	4.0108	710	4.0611	717	4.1126	724	4.1653	730	4.2193	737	4.2747	13
77	744	.3315	750	.3897	757	.4494	763	.5107	769	.5736	775	.6382	12
78	781	.7046	787	.7729	793	.8430	799	.9152	805	.9894	811	5.0658	11
79	816	.1446	822	5.2257	827	5.3093	833	5.3955	838	5.4845	843	.5764	10
80	9848	5.6713	9853	5.7694	9858	5.8708	9863	5.9758	9868	6.0844	9872	6.1970	9
81	877	6.3138	881	6.4348	886	6.5606	890	6.6912	894	.8269	899	.9682	8
82	903	7.1154	907	7.2687	911	7.4287	914	7.5958	918	7.7704	922	7.9530	7
83	925	8.1443	929	8.3450	932	8.5555	936	8.7769	939	9.0098	942	9.2553	6
84	945	9.5144	948	9.7882	951	10.078	954	10.385	957	10.711	959	11.059	5
85	962	11.430	964	11.826	967	12.250	969	12.706	971	13.197	974	13.727	4
86	976	14.300	978	14.924	980	15.605	981	16.350	983	17.169	985	18.075	3
87	986	19.081	988	20.206	989	21.470	990	22.903	992	24.542	993	26.432	2
88	994	28.636	9995	31.242	9996	34.368	997	38.189	997	42.964	9998	49.104	1
89	9998	57.290	9999	68.750	9999	85.940	9999	114.58	1.000	171.88	1.000	343.77	0
deg.	60′ cos	50′ cot	50′ cos	50′ cot	40′ cos	40′ cot	30′ cos	30′ cot	20′ cos	30′ cot	10′ cos	10′ cot	deg.

TABLE VII

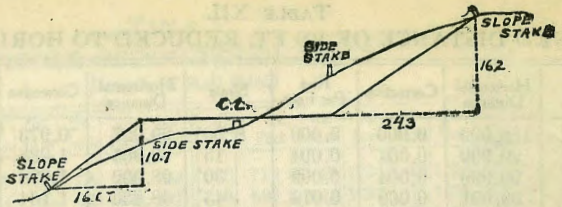
RODS IN FEET AND INCHES

Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches	Rods	Feet Inches
1	16—6	21	346—6	41	676—6	61	1006—6	81	1336—6
2	33—0	22	363—0	42	693—0	62	1023—0	82	1353—0
3	49—6	23	379—6	43	709—6	63	1039—6	83	1369—6
4	66—0	24	396—0	44	726—0	64	1056—0	84	1386—0
5	82—6	25	412—6	45	742—6	65	1072—6	85	1402—6
6	99—0	26	429—0	46	759—0	66	1089—0	86	1419—0
7	115—6	27	445—6	47	775—6	67	1105—6	87	1435—6
8	132—0	28	462—0	48	792—0	68	1122—0	88	1452—0
9	148—6	29	478—6	49	808—6	69	1138—6	89	1468—6
10	165—0	30	495—0	50	825—0	70	1155—0	90	1485—0
11	181—6	31	511—6	51	841—6	71	1171—6	91	1501—6
12	198—0	32	528—0	52	858—0	72	1188—0	92	1518—0
13	214—6	33	544—6	53	874—6	73	1204—6	93	1534—6
14	231—0	34	561—0	54	891—0	74	1221—0	94	1551—0
15	247—6	35	577—6	55	907—6	75	1237—6	95	1567—6
16	264—0	36	594—0	56	924—0	76	1254—0	96	1584—0
17	280—6	37	610—6	57	940—6	77	1270—6	97	1600—6
18	297—0	38	627—0	58	957—0	78	1287—0	98	1617—0
19	313—6	39	643—6	59	973—6	79	1303—6	99	1633—6
20	330—0	40	660—0	60	990—0	80	1320—0	100	1650—0

TABLE VIII

LINKS IN FEET AND INCHES

Links	Feet Inches	Links	Feet Inches	Links	Feet Inches	Links	Feet Inches	Links	Feet Inches	Links	Feet Inches
1	0– 7.92	18	11–10.56	35	23– 1.20	52	34– 3.84	69	45– 6.48	86	56– 9.12
2	1– 3.84	19	12– 6.48	36	23– 9.12	53	34–11.76	70	46– 2.40	87	57– 5.04
3	1–11.76	20	13– 2.40	37	24– 5.04	54	35– 7.68	71	46–10.32	88	58– 0.96
4	2– 7.68	21	13–10.32	38	25– 0.96	55	36– 3.60	72	47– 6.24	89	58– 8.88
5	3– 3.60	22	14– 6.24	39	25– 8.88	56	36–11.52	73	48– 2.16	90	59– 4.80
6	3–11.52	23	15– 2.16	40	26– 4.80	57	37– 7.44	74	48–10.08	91	60– 0.72
7	4– 7.44	24	15–10.08	41	27– 0.72	58	38– 3.36	75	49– 6.00	92	60– 8.64
8	5– 3.36	25	16– 6.00	42	27– 8.64	59	38–11.28	76	50– 1.92	93	61– 4.56
9	5–11.28	26	17– 1.92	43	28– 4.56	60	39– 7.20	77	50– 9.84	94	62– 0.48
10	6– 7.20	27	17– 9.84	44	29– 0.48	61	40– 3.12	78	51– 5.76	95	62– 8.40
11	7– 3.12	28	18– 5.76	45	29– 8.40	62	40–11.04	79	52– 1.68	96	63– 4.32
12	7–11.04	29	19– 1.68	46	30– 4.32	63	41– 6.96	80	52– 9.60	97	64– 0.24
13	8– 6.96	30	19– 9.60	47	31– 0.24	64	42– 2.88	81	53– 5.52	98	64– 8.16
14	9– 2.88	31	20– 5.52	48	31– 8.16	65	42–10.80	82	54– 1.44	99	65– 4.08
15	9–10.80	32	21– 1.44	49	32– 4.08	66	43– 6.72	83	54– 9.36	100	66– .000
16	10– 6.72	33	21– 9.36	50	33– 0.00	67	44– 2.64	84	55– 5.28	101	66 –7.92
17	11– 2.64	34	22– 5.28	51	33– 7.92	68	44–10.56	85	56– 1.20	102	67– 3.84



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1 65	1 80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3 45	3.60	3 75	3.90	4.05	4.20	4 35	2
3	4.50	4 65	4.80	4.95	5 10	5 25	5 40	5.55	5.70	5.85	3
4	6.00	6 15	6.30	6.45	6.60	6 75	6.90	7.05	7.20	7.35	4
5	7 50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9 00	9 15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10 65	10.80	10.95	11.10	11.25	11.40	11.55	11 70	11.85	7
8	12.00	12 15	12.30	12.45	12.60	12.75	12.90	13 05	13.20	13.35	8
9	13 50	13 65	13 80	13 95	14.10	14.25	14.40	14 55	14.70	14.85	9
10	15.00	15 15	15 30	15 45	15.60	15.75	15.90	16.05	16.20	16 35	10
11	16 50	16 65	16 80	16.95	17 10	17.25	17.40	17.55	17.70	17.85	11
12	18 00	18 15	18.30	18 45	18.60	18 75	18.90	19.05	19.20	19 35	12
13	19 50	19 65	19.80	19.95	20.10	20.25	20 40	20.55	20.70	20.85	13
14	21.00	21 15	21.30	21.45	21 60	21.75	21.90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24 15	24 30	24 45	24 60	24.75	24 90	25 05	25.20	25.35	16
17	25.50	25 65	25.80	25 95	26.10	26 25	26 40	26.55	26.70	26.85	17
18	27.00	27 15	27.30	27 45	27.60	27.75	27.90	28.05	28 20	28.35	18
19	28 50	28 65	28 80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30 00	30 15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31 50	31 65	31.80	31.95	32 10	32 25	32.40	32.55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33.60	33 75	33.90	34.05	34.20	34.35	22
23	34 50	34 65	34.80	34.95	35.10	35 25	35 40	35.55	35.70	35 85	23
24	36.00	36 15	36.30	36 45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37 80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39 00	39 15	39.30	39 45	39 60	39.75	39.90	40.05	40.20	40.35	26
27	40 50	40 65	40 80	40.95	41.10	41.25	41 40	41.55	41.70	41.85	27
28	42 00	42 15	42.30	42.45	42.60	42 75	42.90	43.05	43.20	43.35	28
29	43 50	43 65	43.80	43 95	44.10	44 25	44 40	44.55	44.70	44 85	29
30	45 00	45 15	45.30	45 45	45.60	45.75	45.90	46.05	46 20	46.35	30
31	46.50	46.65	46.80	46 95	47.10	47 25	47.40	47.55	47.70	47.85	31
32	48 00	48.15	48.30	48 45	48.60	48 75	48.90	49.05	49 20	49.35	32
33	49 50	49 65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51 00	51.15	51.30	51.45	51.60	51 75	51.90	52.05	52.20	52.35	34
35	52 50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54 00	54 15	54.30	54 45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55 50	55 65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57 00	57.15	57.30	57 45	57.60	57 75	57.90	58.05	58.20	58 35	38
39	58 50	58.65	58 80	58.95	59.10	59 25	59.40	59 55	59.70	59.85	39
40	60 00	60 15	60 30	60 45	60 60	60.75	60 90	61.05	61 20	61.35	40
41	61.50	61 65	61 80	61 95	62 10	62 25	62.40	62 55	62 70	62.85	41
42	63 00	63.15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64.35	42
43	64.50	64 65	64 80	64.95	65.10	65 25	65 40	65.55	65.70	65.85	43
44	66 00	66 15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67 50	67 65	67 80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69 00	69 15	69 30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70 50	70 65	70 80	70 95	71.10	71.25	71 40	71.55	71.70	71.85	47
48	72.00	72 15	72.30	72.45	72.60	72.75	72.90	73 05	73.20	73 35	48
49	73 50	73 65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

392.29
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3.25

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73+20.99
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Bill McCarthy

77+12.

555
559.6

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