EL CAPITAN

For Pipe Line Survey

THEODOLITE No 5

POSTS

FIELD BOOK

W192

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ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

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30	32	Line Change. Sta. 811+02. to Sta. 811+67.75.
33	34	Line Change Sta. 911+13 43 to Sta. 918+86 63
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April 15

Converse
Leach T
Duermit
Webb
Newgam

April 15

S25°40'30"W

E.C.

978+77 25°08'45"L

B.C.

S50°49'15"W

E.C.

977+81 43°28'34"L

B.C.

N85°42'11"W N87°30'W

E.C.

E=1°

976+40 6°26'56"R

E.C.

SE7 50'53W

E.C.

975+18 28°49'30"R

clear and Warm

979+33 Culvert 12" Concrete

Nail in road

154°51'25"
4|619°25'00"
154°51'15"

136°31'30"
4|546°05'45"
136°31'26"

Nail in road

186°27'00"
4|745°47'45"
186°26'56"

Note-Contd. from Book #4.
Page #69.

Mag -

April 15, Converse Leach A Duermit Webb New. map

Clear and Warm. -

Note:- All angles turned to right -

EC

S 40°36'41" W S 39°00' W

992+00 2°40'15" R

S 37°56'26" W S 36°20' W

EC

E = 3°

987+11 13°37'19" L

BC

S 51°33'45" W S 49°55' W

EC

E = 2°

983+89 6°41'15" R

BC

S 44°52'30" W S 43°05' W

EC

E = 12°

981+77 19°2'00" R

S 25°40'30" W

182°40'25"

4 | 730°41'00"

182°40'15"

990+63 Culvert 12" Concrete

166°22'30"

4 | 665°30'45"

166°22'41"

Approximate axis of Mission Gorge Dam Site No: 3

987+00

985+17 Culvert 12" Concrete

186°41'15"

4 | 746°45'00"

186°41'15"

199°12'00"

4 | 796°48'00"

199°12'00"

Hub in road

Mag. -

S64°16'11"W S62°30W

F.C.

E = 4°

999+50° 11°09'00"R

B.C.

S53°07'11"W S51°45'W

F.C.

E = 3°

996+97° 24°21'38"L

B.C.

S77°28'49"W S76°00'W

F.C.

E = 11°

995+71° 69°26'00"R

B.C.

S8°02'49"W

E = 7'

F.C.

993+43° 32°33'52"L

B.C.

S40°36'41"W S39°00'W

992+00°

Nail in road -

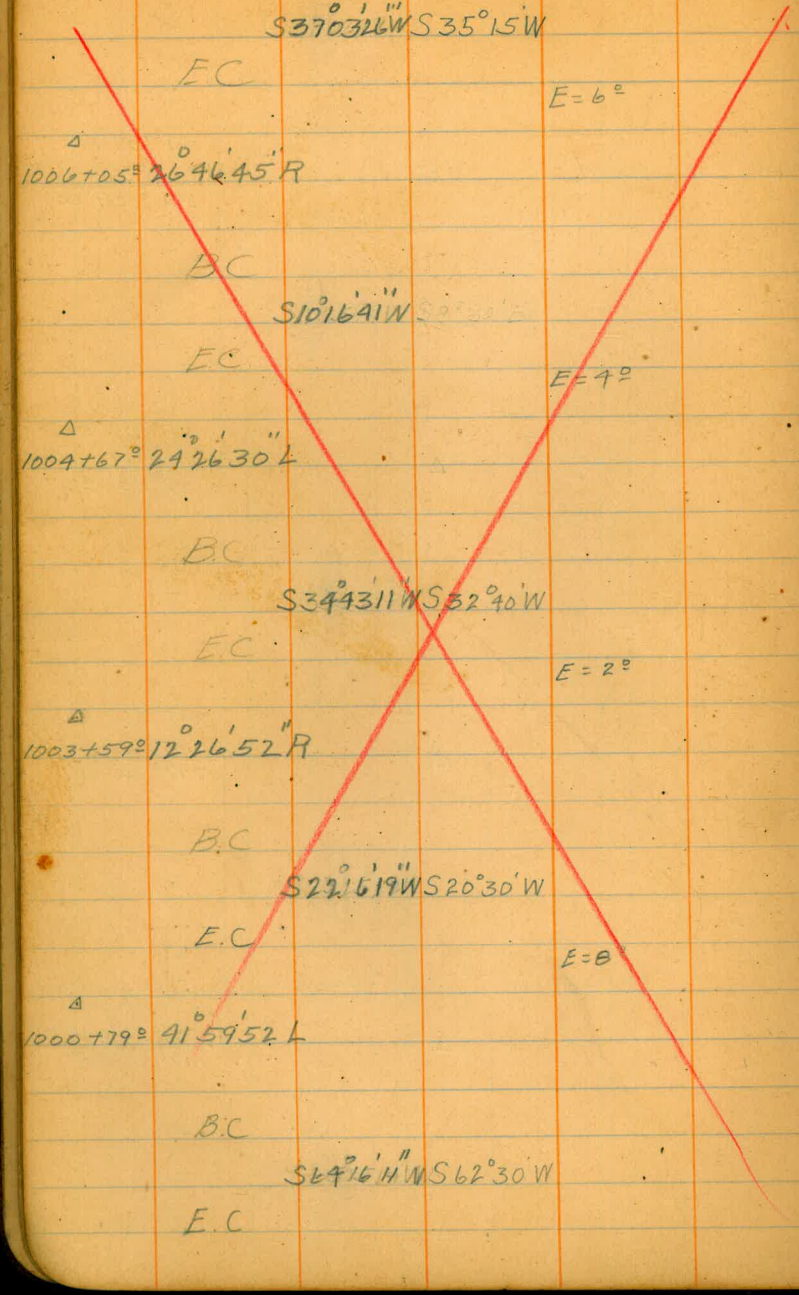
191° 09' 00"
4 | 764° 36' 00"
191° 09' 00"

155° 38' 30"
4 | 622° 33' 30"
155° 38' 22"

249° 26' 15"
4 | 997° 49' 00"
249° 26' 00"

995+01 2' Arch Culvert Concrete

147° 26' 30"
4 | 589° 44' 30"
147° 26' 08"



206°46'30"
4 | 827° 07' 00"
206 46' 45"

1005+79 Culvert 12" Concrete
155°33'45
4 | 622° 14' 00"
155° 33' 30"

192°26'45"
769° 47' 30"
192° 26' 52"

1001+79 Culvert 12" Concrete
138° 00' 15"
4 | 552° 00' 30"
138° 00' 08"

Converse
Leach
Duermit
Webb
Clavert.

S25°57'12"E April 16.

E.C.

1021+80 12°26'38"R

B.C.

S38°23'50"E

P.O.T.
1020+82

S34°23'50"E S40°40'E

E=30°

E.C.

1011+62 69°41'38"L

B.C.

S26°23'48"W S24°25'W

E=3°

E.C.

1008+59 10°59'38"L

B.C.

S37°03'26"W

E.C.

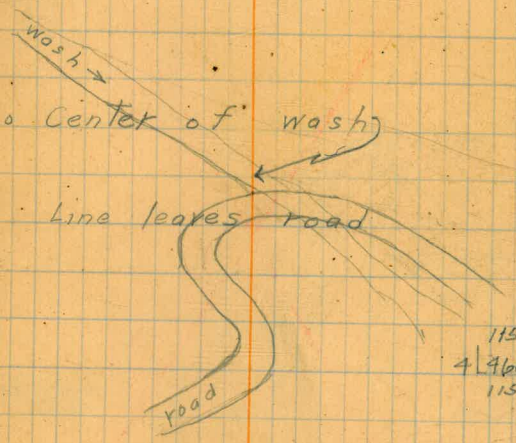
April 16.

Warm and Hazy

On Hogs back

192°26'45"
4 | 769°46'30"
192°26'38"

On Hogs back



1014+20 Center of wash

1013+40 Line leaves road

115°12'30"
4 | 460°49'30"
115°12'22"

169°20'30"
4 | 677°21'30"
169°20'22"

April 17,

Converse
Leach
Duermit
Webb
Clavert

Δ
1032+52 75 =
15+

April 17,

P.O.T.
1028+47°

S25°57'12"E

S25°57'12"E S28°15'E

E.C

Warm and Cloudy

1007+36 3
Sta.
Bissels line

5.8°03'E. Bissells
Bearing.

5.7°42'16"E 5

198°14'45"
4 792°59'45"
198°14'56"

198°14'58"

996+85 5 P.I.

Δ

1025+90 center of Gully

Hoys back

Note. This Line from Sta. 801+02.1 to Sta. 810+42.9 Later Abandoned and Line Rerun to follow County Highway Right-of-Way.

For notes on Relocation see Page 30. this Book.

811+11 Eq. Δ 51°12' L.

E = 15.6
T = 68.63
R = 143.24
D = 40°
L = 128.00

810+42.9 B.C.

N35°47'W
~~N 35°46'W~~

718.8

803+24 E.C.

Abandoned

802+17.8 P.I.

Continued from Book #4 Page 35.

May

Apr. 23

Converse
Leach
Duermit
Webb
Clavert

S 59°51'W ✓

~~S 59°52'W~~

△ ✓

820+65° 4° 10' L

S 64°01'W

S 64°02'W S 64°10' W 318.0 ✓

817+47 5°00' L

S 69°01'W ✓

~~S 69°02'W~~ S 68°45'W 114.0 ✓

816+32.99 E.C

E = 2.9 ✓
T = 33.68
R = 190.99
D = 30°
L 66.67

816+00 △ 20°00'L

815+66.32 B.C.

~~S 89°01'W~~ ✓

~~S 89°02'W~~ ✓ 66.3 ✓

815+00 △ 4°0'L.

~~N 86°59'W~~ ✓

~~N 86°58'W~~ 329.1 ✓

811+70.87 E.C.

T = 68.63

811+11.5 △

Warm

Note: all reference points are at rt. angle to ℄ unless other wise noted.

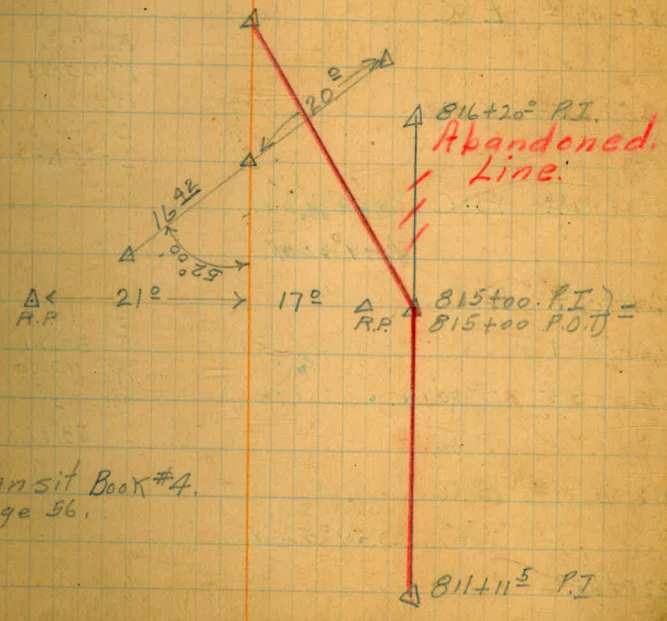
9

△ 15° △ 18° △

820+28 ═══ 12" Concrete Culvert.

Slope Dist. = 167 ✓
V. Angle = 35°00' △ 13 68 ✓ △ 19° △

△ 12° △ 16° △



See Transit Book #4.
Page 56.

Converse
Leach π
Duermit
Webb
Clovert

April 24

S87°41'W

Apr 26 S87°42'W

829+89.44 E.C.

F = 2.6
T = 25.34
R = 124.56
D = 46°00'
L = 50.00

829+65 23°00'R

829+39.44 B.C

S64°41'W

S64°42'W S63°00'W 238.7

826+81 2°50'L

S67°31'W

S67°32'W S66°30'W 131.3

825+49.44 E.C

E = 2.6
T = 25.34
R = 124.56
D = 46°00'
L = 50.00

825+25 23°00'L

824+99.44 B.C N89°29'W

N89°28'W 88.9

824+10.74 E.C.

April 24

E = 4.1
T = 30.21
R = 110.18
D = 52°
L = 58.97

823+82 30°40'R

823+51.74 B.C. S59°51'W

S59°52'W 286.8

820+65

Cool and windy

88.9
30.21
119.11

25.34
19.11
44.45

10

△ 14° 15° △

△ 12° 16° △

827+38 Culvert 8" Concrete

△ 15° 20° △

Slope Dist = 15°
V. Angle = 16°00'

△ 14 42 ✓ 18° △

△ 15° 25° △

△ 15° 15° △

824+06 Culvert 12" Concrete

△ 15° 25° △

Converse
Leach
Duermit
Webb
Clavert

Apr. 26

S54°22'W
~~S54°22'W~~ S52°05'W

836+60.05 E.C.

E = 1.5
T = 19.36
R = 124.56
D = 46°
L 38.41

836+41.00 17°40' R

836+21.64 B.C S36°41'W
~~S36°42'W~~

58.9

835+62.69 E.C.

E = 3.7
T = 51.39
R = 358.10
D = 16°
L = 102.08

835+12.00 16°20' L

834+60.61 B.C. S53°01'W
~~S53°02'W~~ S51°55'W

91.2

833+69.43 E.C

E = 5.9
T 51.21
R = 220.37
D = 26°
L = 100.64

833+20.00 26°10' L

832+68.79 B.C S79°11'W
~~S79°12'W~~ S78°20'W

93.1

831+75.71 E.C

E = 2.6
T = 70.96
R = 954.93
D = 6°
L = 141.67

831+05.00 8°30' L

830+34.04 B.C

829+89.66 E.C. S87°41'W
~~S87°42'W~~

44.3

11

Warm and Hazy

△ 14° △

△ 15° 15½ △

△ 12° 15° △

△ 16° 15° △

△ 15° △ 14° △

Slope Dist = 20°
V Angle = 16°51'

△ 19 14 ✓ △ 14° △

831+97 Culvert 12" Concrete

△ 15° 14° △

△ 15° △ 19° △

Mag. Converse
Leach T.
Duermit
Webb
Clorert

S8°31'W Apr. 27
~~S8°32'W~~ S6°55'W

△
843+19° 4°20'R

S4°11'W
~~S4°12'W~~ 72.5

842+46.59 E.C.

E=7.1
T=58.78
R=238.73
D=24°
L=115.28

△
841+90° 27°40'L

841+31.22 B.C.

S31°51'W
~~S31°52'W~~ S29°35'W 60.2

△
840+71° 4°20'R

S27°31'W
~~S27°32'W~~ S25°55'W 91.7

840+29.36 E.C.

E=2.0
T=26.76
R=179.05
D=32°0'
L=53.12

△
840+03° 17°00'R

839+76.24 B.C

S10°31'W
~~S10°32'W~~ S9°00'W 118.6

~~41.~~ 37
838+51 E.C.

E=8.9
T=46.10
R=114.59
D=50°
L=87.67

△
838+16° 43°50'L

+699.99 Perm.
837+~~59.99~~ B.C.

Apr. 27

836+60.05

S54°22'W 99.9
~~S54°22'W~~ 109.9

12

Cool and Cloudy

Slope Dist=21°
V. Angle=39°11' △ 16.28 11° △

Slope Dist=22°
V. Angle=40°52' △ 16.64 V △ 16° △
Nail in rd.

Slope Dist=16°
V. Angle=36°30' △ 12.86 V 11° △
840+98 Culvert 16" C.M.P.

Slope Dist=12.7
V. Angle=33°41' △ 10.57 V △ 11° △
Nail in rd.

Slope Dist=23.6
V. Angle=29°35' △ 20.49 V 12° △

Slope Dist=19°
V. Angle 23°45' △ 17.39 V 11° △

△ 13° 13° △

△ 16° 15° △

Bear. Mag. Apr. 28. Converse
Leach T
Duermit
Webb
Clavert

S16°41'W
~~S16°42'W~~ S15°25'W

850+38 77 E.C

△

850+18 8 10°50'R

E=1.0
T=20.90
R=220.37
D=26°
L=41.67

849+97 10 B.C S5°51'W
~~S5°52'W~~

60.0

849+37 06 E.C.

Apr. 28. '26

△

849+25 9 9°40'R

E=0.5
T=12.11
R=143.24
D=40°
L=24.17

849+12 89 B.C. S3°49'E
~~S3°48'E~~ S5°00'E

189.9

847+23 2 2°40'R

S6°29'E
~~S6°28'E~~

170.0

△

845+53 5 5°00'L

170

S1°29'E
~~S1°28'E~~ S3°30'E

47.1

845+05 87 E.C.

E=2.2
T=50.13
R=572.96
D=10°00'
L=100.00

844+56 10°00'L

844+05 87 B.C. S8°31'W
~~S8°32'W~~ S6°55'W

86.9

△

843+19 4 4°20'R

13

Warm and Cloudy

△ 8 △ 14 △

△ 8 13 △

△ 9 11 △

△ 10 12 △

848+42 Culvert 12' Concrete

△ 9 12° △

845+63 Culvert 15" C.M.P.

△ ← 67 11 △

Nail in rock Bank

△ 5 △ 10 △

Nail in Bank

△ ← 7 10 △

Nail in Bank

Converse
Leach - T
Duermit
Webb
Clarert.

Apr. 29, 1926

S60°51'W
~~S60°52'W~~

859+83.39 E.C.

Apt. 29

859+45 12°20'R

E = 2.1
T = 38.69
R = 358.10
D = 16°
L = 77.08

859+06.31 B.C.

S48°31'W
~~S48°32'W~~

234.3

856+72 4°50'R

S43°41'W
~~S43°42'W~~

293.2

853+78.80 E.C.

E = 1.0
T = 16.95
R = 1433.24
D = 4°0'
L = 33.75

853+62 13°30'R

853+45.05 B.C.

S30°11'W
~~S30°12'W~~

80.6

852+64.41 E.C.

E = 1.0
T = 25.52
R = 318.31
D = 18°
L = 50.93

852+39 9°10'R

852+13.48 B.C.

S21°01'W
~~S21°02'W~~ S19°30'W

113.5

851+00 4°20'R

S16°41'W
~~S16°42'W~~ S15°25'W

61.2

850+38.72

Cooland Fogy

Slope Dist = 19
V. Angle = 25°09' Δ 17.20 18 Δ

Slope Dist = 17
V Angle = 34°20' Δ 14.04 ✓ 13 Δ

Slope Dist = 11
V. Angle = 23°25' Δ 10.09 ✓ 13 Δ

855+05 ——— 4X13 Wooden Culvert

Slope Dist = 9
V. Angle = 26°30' Δ 8.14 ✓ Δ 14 Δ

27.04

Slope Dist = 9
V Angle = 18°35' Δ 8.63 ✓ 13 Δ

Nail in Bank

Slope Dist = 11
V Angle = 25°19' Δ 10.31 ✓ 12 Δ

Δ 8.3 Δ 13 Δ

S61°11'W
~~S61°12'W~~

868+12.29 E.C.

E 1.4
T=28.43
R=286.48
D=20°
L=56.67

△
867+84.9 11°20'L

867+55.57 B.C. S72°31'W
~~S72°32'W~~ S71°25'W 83.5

866+72.11 E.C.

E=1.0
T=24.22
R=286.48
D=20°
L=48.33

△
866+48.9 9°40'R

866+23.78 B.C. S62°51'W
~~S62°52'W~~ S61°50'W 112.8

△
865+11.9 4°20'R

S58°31'W
~~S58°32'W~~ S57°25'W 436.0

860+75.9 2°20'L

S60°51'W
~~S60°52'W~~ 91.6

859+83.39 E.C.

868+15 Culvert 18" C.M.P.
Slope D=17.2°
V. Angle=10°54' △ 16.69 V 11.2° △

Slope D=11.2°
V. Angle=17°47' △ 10.47 V 12.2° △

△ 10.1 14.9° △

Slope D=19.2°
V. Angle=27°16' △ 16.89 V 19.2° △

Slope Dist=12.2°
V. Angle=29°26' △ 10.45 V 13.2° △

864+29 Culvert 16" C.I.P.

861+34 Culvert 18" C.M.P.
△ 10.2 11.2° △

S16°41'W
S16°42'W Apr. 30, '26

Converse
Leach
Duermit
Webb
Clavert

875+34.79 E.C

E = 2.0
T = 25.21
R = 159.16
D = 36°
L = 50.00

875+10° 18°00' L

874+84.79 B.C S34°41'W

Apr. 30 S34°42'W S34°05'W 105.8

873+79° 3°20' R

B.C S31°41'W

S31°22'W S31°05'W 73.7

873+05.32 E.C

E = 2.1
T = 44.57
R = 477.47
D = 12°
L = 88.89

872+61° 10°40' L

872+16.43 B.C S42°01'W

S42°02'W 79.4

871+37° 3°40' R

S38°21'W

S38°22'W S38°30'W 64.22

870+72.78 E.C.

1.9
E 2.3
T = 19.28
R = 95.49
D = 60°
L = 38.06

870+54° 22°50' L

870+34.72 B.C S61°11'W

S61°12'W S61°00'W 222.5

868+12.24 E.C.

Cool and Misting

Slope D = 13°
V. Angle = 40°00' Δ 9.96 12° Δ

Slope D = 11°
V. Angle = 41°55' Δ 8.19 12° Δ

Slope D = 12°
V. Angle = 31°30' Δ 10.23 12° Δ

872+72 Culvert 12" Concrete

Slope D = 11°
V. Angle = 31°41' Δ 9.36 V Δ 12° Δ

Slope D = 12°
V. Angle = 31°35' Δ 10.22 V Δ 12° Δ

Slope D = 6°
V. Angle = 18°15' Δ 5.79 V Δ 11° Δ

Slope D = 11.3
V. Angle = 23°28' Δ 10.37 V

Shingle nail in road.

Slope D = 5°
V. Angle = 25°10' Δ 4.98 V 15° Δ

Nail in rock wall

31.43
70.6
102.03

S10°11'W

~~S10°12'W~~ S9°50'E

880+39.74 E.C.

E = 1.5
T = 16.12
R = 84.26
D = 68°
L = 31.86

△ 880+24° 21°40' R

880+07.88 B.C.

S11°29'E

~~S11°28'E~~ S12°00'E 128.6

878+79.34 E.C

E = 1.5
T = 21.64
R = 150.78
D = 38°
L = 42.98

△ 878+58° 16°20' L

878+36.36 B.C

S4°51'W

S4°52'W 50.3

877+86.07 E.C.

E = 2.1
T = 31.43
R = 238.73
D = 24°
L = 62.50

△ 877+55° 15°00' L

877+23.57 B.C

S19°51'W

~~S19°52'W~~ S19°00'W 70.6

△ 876+53° 3°10' R

875+34.79 E.C.

S16°41'W

~~S16°42'W~~ 118.21

△ 13° 17° △

△ 8° 16° △

878+93 Culvert 12" Concrete

71°20'
20°
5°

△ 17° 13° △

Slope D = 11°
V Angle = 25°17' △ 9.95 13° △

Slope D = 11°
V Angle = 13°24' △ 10.20 21° △

△ 8.1 14° △

May 1, 26

C.W. Converse - Chief of Party
Leach - Inst.
Duermit - Hd. Chain
Webb Rr. Chain
Clavert Axe

S39°01'W Mag.

~~S39°02'W~~ S38°15'W

888+58.24 E.C

E = 2.0
T = 21.76
R = 114.59
D = 50°
L = 43.00

△
888+37.9 21°30'R

888+15.24 B.C

S17°31'W

~~S17°32'W~~ 33.0

887+82.24 E.C.

May 1,

E = 2.0
T = 21.76
R = 114.59
D = 50°
L = 43.00

887+61.9 21°30'R

887+39.24 B.C S3°59'E

~~S3°58'E~~ 154.44

885+84.80 E.C

E 5.8
T = 69.10
R = 409.26
D = 14°
L = 136.90

△
885+17.9 19°10'L

884+47.90 B.C

S15°11'W

~~S15°12'W~~ S14°35'W 288.9

881+59.9 5°00'R

880+39.74 S10°01'W 119.3

~~S10°12'W~~

Cool and Cloudy

888+91 Culvert 12" Concrete

Slope D = 23.5
V. Angle = 26°45'△ 20.57 15.9 △

Slope Dist = 12.5
Slope Ang. 32°35'△ 10.53 14.9 △

△ 16.2 13.9 △

Slope D = 15.9
V Angle = 15°27'△ 14.46 12.9 △

Slope D = 13.9
V Angle = 29°07'△ 11.36 13.9 △

Slope D = 11.9
V Angle = 36°30'△ 8.90 14.9 △

883+70 Culvert 15" C.M.P.

△ 9.9 13.9 △

1932

May 4, 1926

Converse
Leach
Doermitt
Webb
Clarert

894+10.96 B.C.

S22°91'W

May 4

S22°02'W S21°05'W

893+91.69 E.C

E 2.6
T = 24.36
R = 114.59
D. = 50°
L = 48.0

893+68 24°00' R

893+43.64 B.C S1°59'E

S1°58'E S2°55'E 96.12

892+47.57 E.C

E = 1.5
T = 25.76
R = 220.37
D = 26°
L = 51.28

892+22.9 13°20' L

891+96.29 B.C

S11°21'W

S11°32'W 151.3
151.37

890+44.87 E.C.

E = 5.0
T = 41.50
R = 168.52
D = 34°
L = 81.37

May 3

890+05.2 27°40' L

889+63.59 B.C.

S39°01'W

S39°02'W S38°15'W 105.3
105.26

888+58.24 E.C.

19

Warm

Slope Dist = 10.2
V Ang = 32°05' Δ 8.47 15° Δ

Slope Dist = 12.2
V Ang. 26°15' Δ 10.76 14° Δ

Slope Dist = 12.2
V Angle = 48°05' Δ 8.02 Δ 13° Δ
Shingle nail

Δ 20° 10° Δ
891+84 ——— Culvert 15" C.M.P.
890+98 ——— Culvert 12" Concrete

Slope Dist = 12.2
V Angle = 34°18' Δ 9.91 13° Δ

Slope Dist = 17.2
V Angle = 39°15' Δ 13.16 12° Δ

S 18°59'W
~~S19°00'W~~

899+59 Δ 2°30'L

S 21°29'W
~~S21°30'W~~ S 20°30'W 153.0

898+06 Δ 3°00'R

S 18°29'W
~~S18°30'W~~ 86.0

897+20 Δ 3°20'R

S 15°09'W
~~S15°10'W~~ 44.8

896+75.24 E.C

E = 2.5
T = 34.97
R = 2387.3
D = 2.4°
L = 69.44

896+40.77 Δ 16°40'L

896+05.80 B.C S 31°49'W
~~S31°50'W~~ S 30°35'W 96.80

895+09 Δ 2°48'R

S 29°01'W
~~S29°02'W~~ 28.0

894+80.96 E.C

E = 1.1
T = 35.04
R = 572.96
D = 10°
L = 70.00

894+46 Δ 7°00'R

894+10.94 B.C S 22°01'W
~~S22°02'W~~ 19.4

893+91.44 E.C.

900+20 ═══ Culvert 18" C.M.P.

Slope Dist = 12°
V. Angle = 9°18' Δ 11.84 21° Δ

Δ R.P. Δ 9° 13° Δ
OK.

897+33 ═══ Culvert 12" Concrete

Δ 12° 10° Δ

Δ 10° 14° Δ

21°53'30" 14°

Δ 8° Δ

895+63 ═══ Culvert 15" C.M.P.

Slope Dist = 9°
V. Angle = 29°14' Δ 7.85 15° Δ

Δ 12° 12° Δ

Δ 12° 12° Δ

May 5,

Converse
Leach
Duermitt
Webb
Clovert.

S74°55'W
~~S74°56'W~~

903+02 52 E.C.

May 5,

902+82 48 72°20'R

E=9.0
T=27.55
R=37.69
D=152°
L=47.59

902+54 93 B.C S 2°35'W
~~S2°36'W~~

61.7

901+93 20 E.C.

E=4.5
T=33.90
R=124.56
D=46°
L=66.20

901+60 9 30°27'L

901+27 0 B.C S83°02'W
~~S83°03'W~~

38.05

900+88 95 E.C.

E=2.2
T=35.30
R=286.48
D=20°
L=70.25

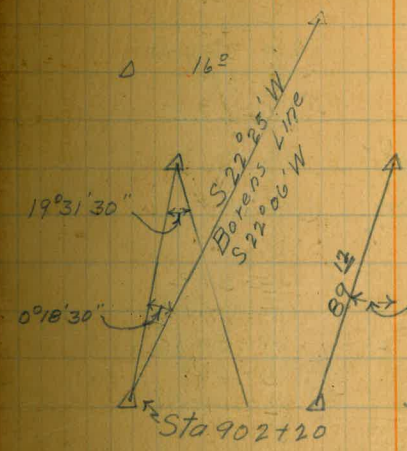
Δ 900+54 0 14°03'R

900+18 70 B.C S18°59'W
~~S19°00'W~~

59.70

699+59

27
88.95
38.05



Δ 11° 15° Δ

Δ 8° 22° Δ

Slope Dist = 9°
V.L = 21°49' Δ B. 36 14° Δ

Δ 12° 18°

900+58 ——— Culvert 12" Concrete

Δ 13° 11° Δ

See Page #33. This Book.

May 6, 1926

~~S18°54'E~~ S19°35'E

913+60 59 E.C

Abandoned

E = 2.0
T = 33.91
R = 286.48
D = 20°
L = 67.5

913+27 ℓ 13°30'R

912+93 09 B.C ~~S32°25'E~~ ~~S32°24'E~~ 179.7

911+13 43 E.C

E = 39.2
T = 91.48
R = 86.48
D = 66°
L = 140.91

910+64 ℓ 93°00'L

909+72 52 B.C ~~S60°36'W~~ ~~S60°36'W~~ 33.6

909+38 94 E.C

E = 2.1
T = 30.32
R = 220.37
D = 26°
L = 60.26

909+09 ℓ 15°40'L

908+78 48 B.C. ~~S76°15'W~~ ~~S76°16'W~~ 236.7

906+42 ℓ 4°00'L ~~S80°15'W~~ ~~S80°16'W~~ 100.0

905+42 ℓ 20°20'R ~~S79°53'W~~ ~~S79°56'W~~ 76.0

904+66 ℓ 5°00'R ~~S74°55'W~~ ~~S74°56'W~~ 163.5

903+02 52

20° 14°

11° 19°

912+83 Culvert 12" Concrete

12° 18°

County Δ Sta. #45

P.I. 101+45 50

20' 58°55'15"

11° 21°

8° 13°

10° 12°

907+59 Culvert 12" Concrete

53°00'

17°

Slope Dist = 15°

V. Angle = 14°22'

14.53

15° 17°

8° 12°

May 6

Converse
Leach
Duermitt
Webb
Clavert

S17°05'W Mag

~~S17°06'W~~ S16°05'W

917+69.73 E.C

△

917+52.0 36°00'R

917+33.00 B.C S18°55'E

~~S18°54'E~~

913+60.59

E = 3.0
T = 19.00
R = 584.7
D = 9°8'
L = 36.73

372.4

Abandoned

See Page #33.
This Book.

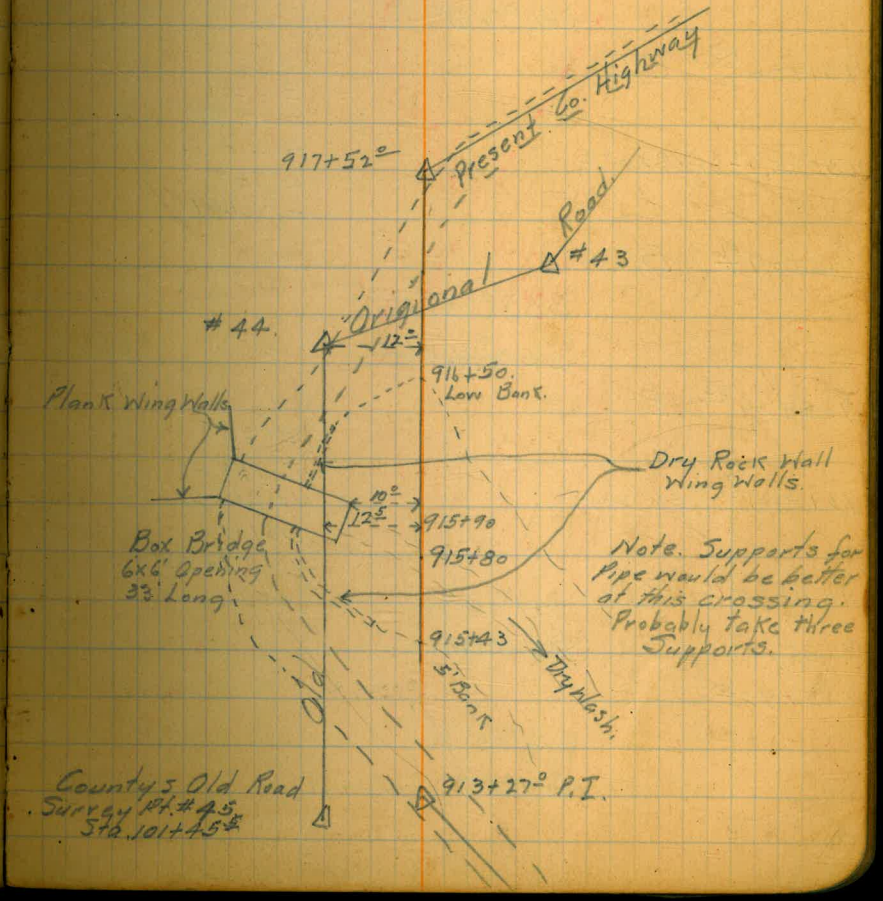
913+60.59

Cool and Cloudy

922+22 Culvert 12" Concrete

△ 10° 25° △

△ 10° 27° △



N65°49'W
N65°48'W

936+96.86 E.C.

May 7,

936+24 42°56' R

935+43.53 B.C.

P.O.T.
935+32

S71°15'W
S71°16'W

931+06.13 E.C.

930+57 17°50' R

930+07.06 B.C.

S53°25'W
S53°26'W

928+89.23 E.C.

927+64 36°20' R

926+29.71 B.C.

S17°05'W
S17°06'W

P.O.T.
925+92

S17°05'W
S17°06'W S16°05'W

15.3
E=16.0
T=80.47
R=204.63
D=28°
L=153.33

11.5

425.9

E=3.9
T=49.94
R=318.31
D=18°
L=99.07

117.9

E=21.5
T=134.29
R=409.26
D=14°
L=259.52

37.7

822.3

Δ 13°

25°

222°5L
4|891.43'30"

Δ 11°

28° Δ

934+28 Culvert 12" Conc.
Pt on rock So. end Culvert

Δ 23

Δ 26°

931+06 Culvert 12" Con.

Δ 14°

27° Δ

Δ 10°

24°

Δ 15°

23° Δ

May 7, 1926 Conrose, Leach, Duermitt, Webb, Claret

Cold and Cloudy

S48° 02'W
S48°03'W
945+39.90 2°44' L ← Note: This angle read 2°44'30"
S50°46'W
~~S50°47'W~~ 149.1
943+90.82 E.C.
E 8.4
T=98.45
R=572.96
D=10°
L=195.0
942+94.27 19°30' L
941+95.82 B.C. S71°16'W
~~S70°17'W~~ 150.2
940+45.63 E.C.
E=9.3
T=73.42
R=286.48
D=20°
L=193.75
939+75.30 28°45' L
939+01.88 B.C.
N80°59'W
~~N80°56'W~~ 19.3
938+82.54 E.C.
E=5.1
T=76.28
R=572.96
D=10°
L=151.67
938+07.17 15°10' L
937+30.89 B.C. N65°49'W
~~N65°48'W~~ 34.03
936+96.86

#37 P.I. 66+00.70 Old Rd Survey
25° 27°
#38 P.I. 68+48.20 Old Rd. Survey.
20° 18°
26° 25°
25° 24°
940+14 Center of 10' Dry Wash
Syphon under this Wash.
High Water Mark at 940+02 and 940+27.
71+70.33 Old Rd. Survey
P.I. #39
939+75.30 P.I. El Cap. Pipe Line Survey.
R.P. 30° 20°
R.P. 25°
39.81 Slope Dist=40°
V. Angle=5°33'
73+39.07 P.O.T. Rd. Survey=
938+82.54 P.I. Pipe Line Survey.
15°10'
S.81°E.
19° 25° R.P. 93+24.0°
96+04.6 P.I. #40 Old Rd. Survey.
937+78 Culvert 12" Conc. 3' Ft.

May 8.

Leach
Overmit
Webb
Clarent
Osborne

S8°48'E
~~S8°47'E~~

965+32.81 E.C.

May 10, ✓

964+21.70 47°20'L

E=26.3 ✓
T=125.56
R=286.48
D=20°
L=236.67

962+96.14 B.C. S38°32'W ~~S38°33'W~~ ✓ 517.2

951+78.92 5°00'R

S33°32'W ~~S33°33'W~~ ✓ 380.6

953+98.33 E.C.

E=4.6 ✓
T=72.89
R=572.96
D=10°
L=145.00

953+26.22 14°30'L

Note: This angle read 14°30'30"

952+53.33 B.C.

May 8,

S48°02'W ~~S48°03'W~~ ✓ 560.2

P.O.T. ✓ 946+93.08

S48°02'W ~~S48°03'W~~ ✓ 66.8

P.O.T. 946+27.06

S48°02'W ~~S48°03'W~~ ✓ 87.2

945+39.90

Note. From Sta. 955 to Sta. 972 Scattered outcropping of rock.

Δ 21° 25°

#34 ✓ P.I. 47+18.40 Old Rd Survey.

Δ 26° 27° Δ

961+90 Dry wash (Pipe under this wash.)

Δ 21° 19° Δ

#35 ✓ P.I. 53+61.20 Old Rd Survey.

955+40 Center of wash (dry) Support if necessary. Sandstone ledge exposed.

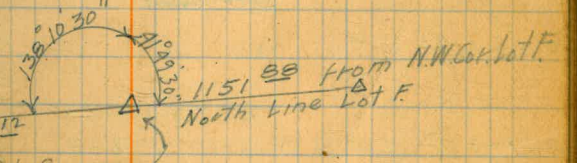
Δ ✓ 27° 17° Δ

#36 P.I. 58+14.6 Old Rd. Survey

Δ 28° 23° Δ

Pipe under this wash with very little more trenching.

949+52 Center of wash dry



P.O.T. 64+47.6 Old Rd. Survey

Δ 32° 30° Δ

May 11

Converse
Leach
Duermitt
Webb
Clarent

S33°11'W
~~S33°14'W~~

987+17 05 5°00' R

S28°11'W
~~S28°14'W~~ S27°15'W

980+35 25 E.C.

E=13.6
T=125.36
R=572.96
D=10°
L=246.83

979+13 78 24°41' R

977+88 42 B.C.

May 11
P.O.T.

974+66 91

681.8

321.5

S3°30'W
~~S3°33'W~~

651.3

968+15 63 E.C.

E=1.7
T=30.87
R=286.48
D=20°
L=61.50

967+85 00 12°18' R

Note: This angle reads 12°17'38"

967+54 13 B.C.

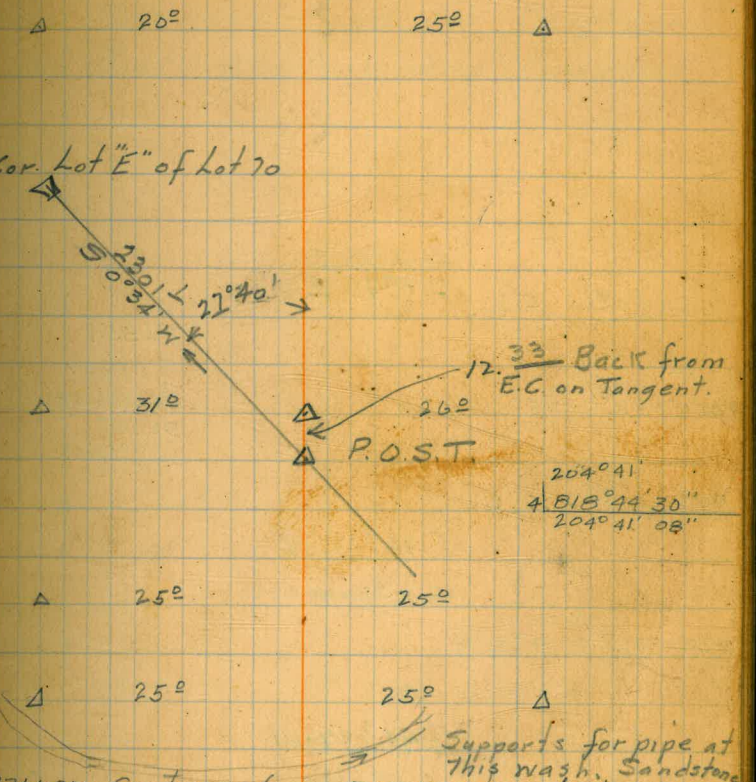
S8°48'E
~~S8°47'E~~

221.3

965+32 81

27

Clear and Warm



Leach
Duermitt
Webb
Clavert.

Finished 11:00 A.M. May 12.

= S.8°03'E =

~~S 7°42'E~~
~~S7°45'E~~

1001+87 97 E.C.

E = 35.1
T = 146.07
R = 286.48
D = 20°
L = 270.17

1000+63 87 54°02'L

999+17 80 B.C.

S46°17'W

~~S46°20'W~~

71.5

998+46 30 4°40'R

S41°37'W

~~S41°40'W~~

404.9

994+41 39 E.C.

E = 1.6
T = 42.24
R = 572.96
D = 10°
L = 84.33

993+99 30 8°26'R

993+57 04 B.C. S33°11'W

~~S33°14'W~~

640.1

987+17 05 P.I.

28

Note - See next Page for Diagram of Intersection and Equasion.

Δ 25° 25° Δ

Δ 25° 24 06 Slope D = 25°
Δ V Ang = 16°42'

Slope D = 25°
V Angle = 9°10' Δ

Slope D = 26°
Δ V Ang. = 22°18'

997+97 → Wash (dry)

Slope D = 25°
= 7°39' Δ 24 73

21 58 Slope D = 25°
Δ V = 30°19'

Slope D = 25°
V = 18°03' Δ 24 45

22 94 Slope D = 25°
V Δ = 23°25'

991+70 Dry wash

1007+36.3 P.I.

McCarty's Line Ahead. 998+05.07
Leach's Line Back 1001+87.92 E.C.

146.07

54°02'

McCarty's Line Ahead. 996+58.95
Leach's Line Back. 1000+63.87 P.I.

B.C.

P.I. 998+46.30

Contd. in Book #6.
Page #9.

S 7°42' E (Leach)
S 8°03' E (McCarty)

Sta. 996+64.70
Straddler set by McCarty

5.75
2.28

Bissels Hub
15+05.6

1000+63.87 = 996+58.95

4°36'30"

8.81

Straddler set by McCarty
Sta. 996+50.13

998+46.30

Relocation of Line from
Sta. 801+02.1 P.O.T. to Equation
= Sta. 811+67.75 E.C. Back =
Sta. 810+07.49 E.C. Ahead
Keeping within County Highway
Right-of-Way.

G.W. Converse.
May 26. 1926.

N. 35°47'W 35.38

810+07.49 E.C.
811+67.25 E.C. =

P.I.
810+98.82 28°09' L.

E = 8.9
T = 71.82
R = 286.48
D = 20°
L = 140.75

810+27.00 B.C.

N. 7°38'W 391.6

806+35.40 E.C.

P.I.
805+80.1 73°07' R.

E = 25.06
T = 75.87
R = 102.31
D = 56°
L = 130.57

805+04.83 B.C.

N. 80°45'W 402.73

Eptan

801+02 P.O.T.

N. 80°45'W 1167.3

789+34.8 P.I.

71.82
35.38
107.20

56
25 1406
125
156

33° 31° 25

811+27

Wash

May 26. 1926.
Converse - Inst.
Duermit - Hd. Chs
Anderson - Rod. Chs
Clavert - Stakes

40° 28°

175.83
539.29
1645.9

805+58 4.5 ⊙ 30" Cottonwood Tree

18" Concrete Pipe

805+36

1167.3
402.7
1570.0

68.63
35.38
104.01

N. 86°59'W

811+70 87 E.C.

P.I
811+11 50 51°12'L.

E = 15.6
T = 68.63
R = 143.24
D = 40°
L = 128.00

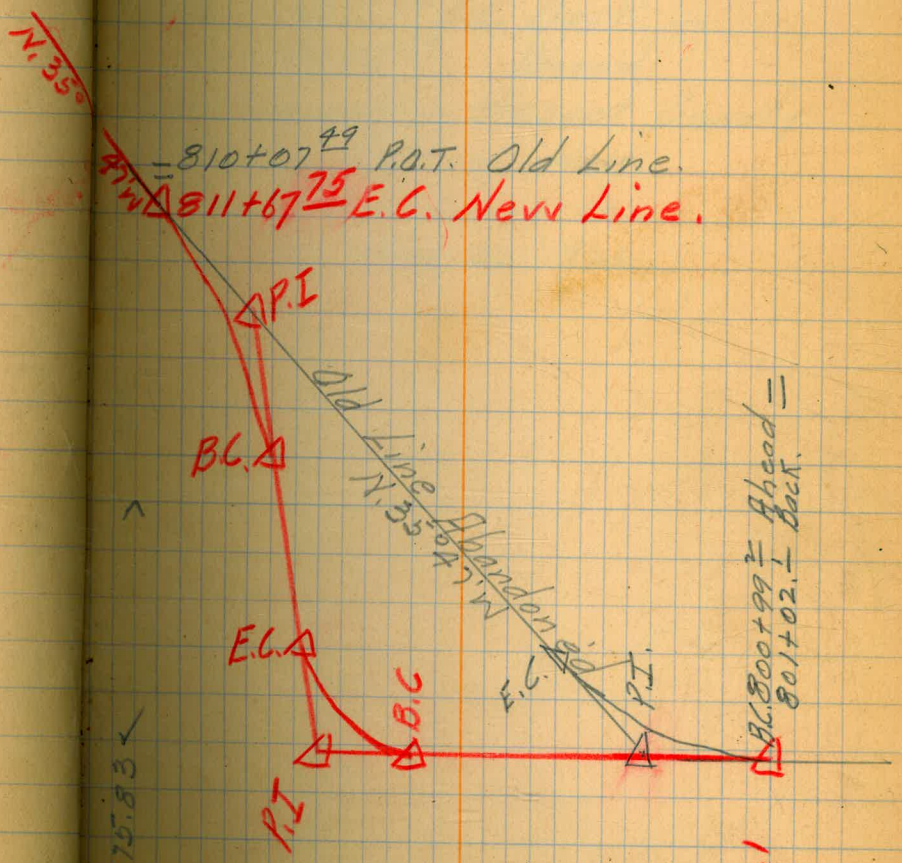
810+42 87 B.C.

N. 35°47'W 35.38

810+07 49 E.C. =
811+67 75 E.C.

N. 35°47'W

=810+07 49 P.O.T. Old Line.
811+67 75 E.C. New Line.



Relocation of Line from
Sta. 911+13 43 to Equation
= Sta. 918+86 63 E.C. Back. =
= Sta. 918+84 29 Ahead =
Keeping within Present County
Highway Right-of-Way.
G. W. Converse.
May. 26. 1926.

Contd. on Page #24.

925+92 ± P.O.T.

S. 17°05'W. 707.71

918+84 29 E.C.
918+86 63 E.C.

P.I.
916+55.77 49°30'R

E = 57.95
T = 264.14
R = 572.96
D = 10°
L = 495.0

913+91 63 B.C.

S. 32°25'E 64.63

913+27 ± P.O.T.

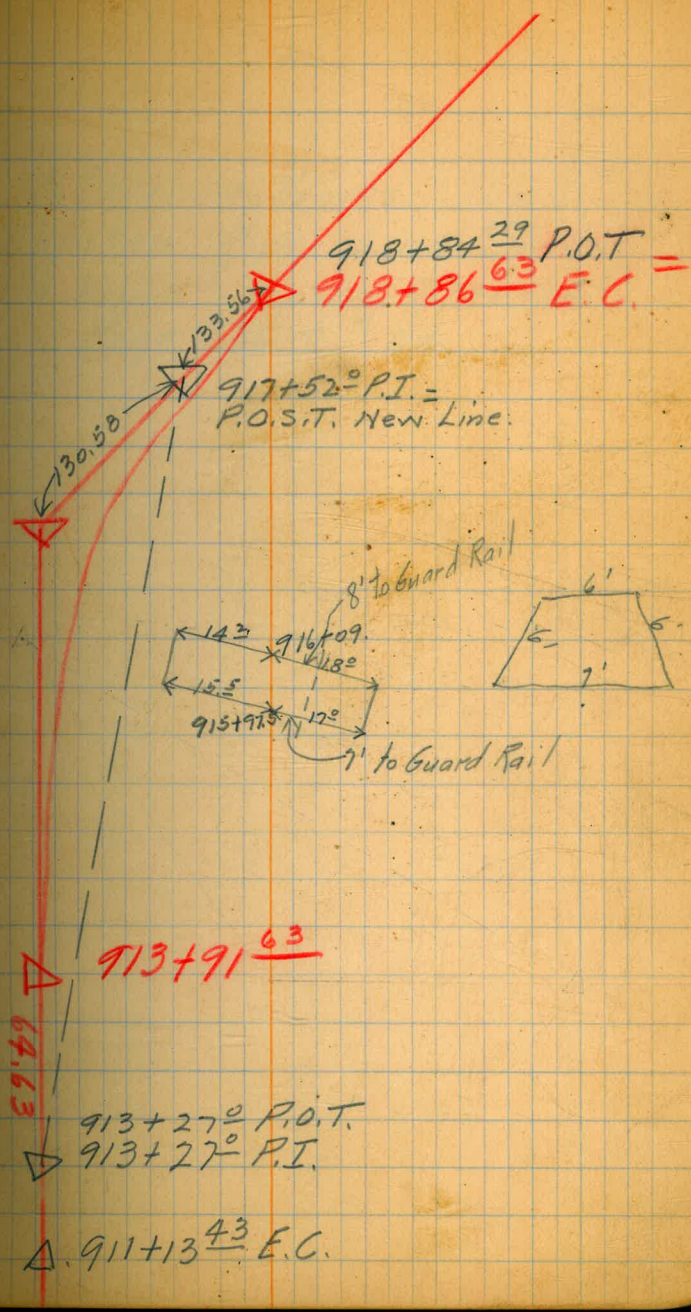
S. 32°25'E 213.57

911+13 43 E.C.

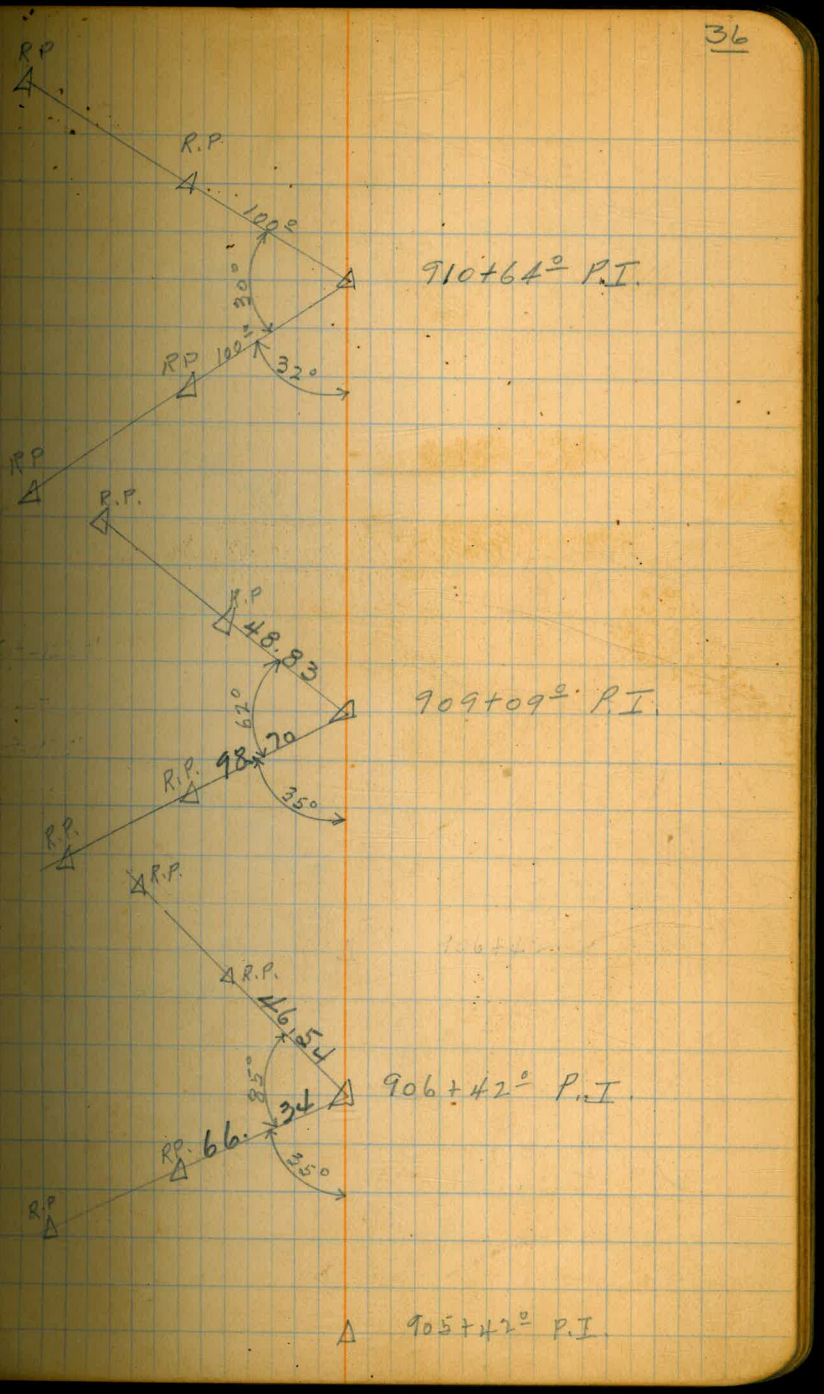
T = 91.48

910+64 ± P.I.

Contd. from Page #22.



Reference Points.
El Capitan Pipe Line Survey.
Sta. 811+11 5 to Sta. 939+75 3
Page # 35 to # 54.



$50^{\circ} - 12^{\circ}25'$

$100^{\circ} - 9^{\circ}15'$

$50^{\circ} - 21^{\circ}26'$

$70^{\circ} - 18^{\circ}36'$

70° - 21°05'

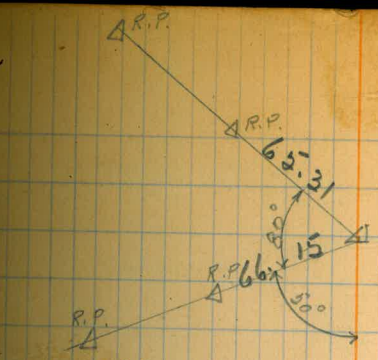
70° - 19°05'

75° - 21°37'

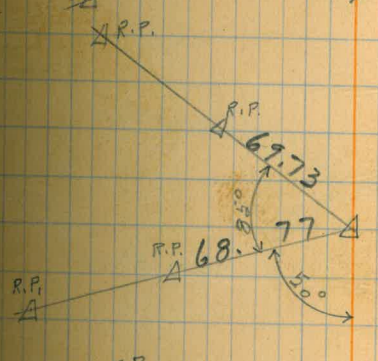
70° - 10°45'

100° - 2°00'

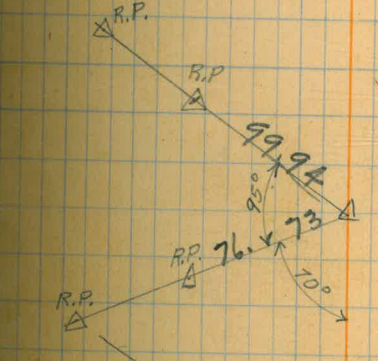
80° - 16°27'



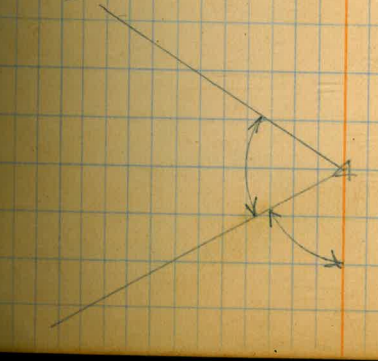
905+42 P.I.



904+66 P.I



902+82 48 P.I



901+60 9 P.I.

Unable to reference.

80° - 10° 09'

100° - 8° 15'

90° - 12° 51'

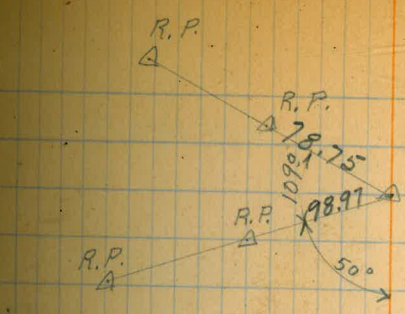
80° - 8° 25'

90° - 9° 33'

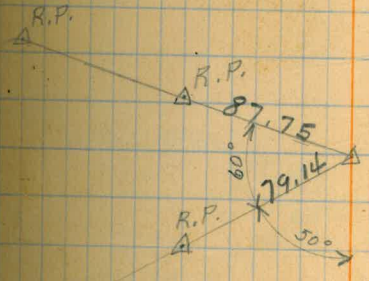
60° - 10° 33'

100° - 11° 01'

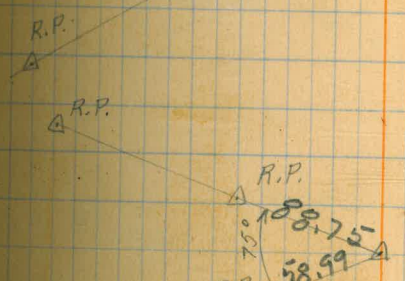
70° 10° 08'



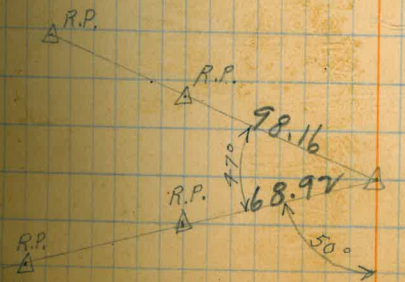
900 + 54 = P.I.



899 + 54 = P.I.



898 + 06 = P.I.



897 + 20 = P.I.

80° - 14° 35'

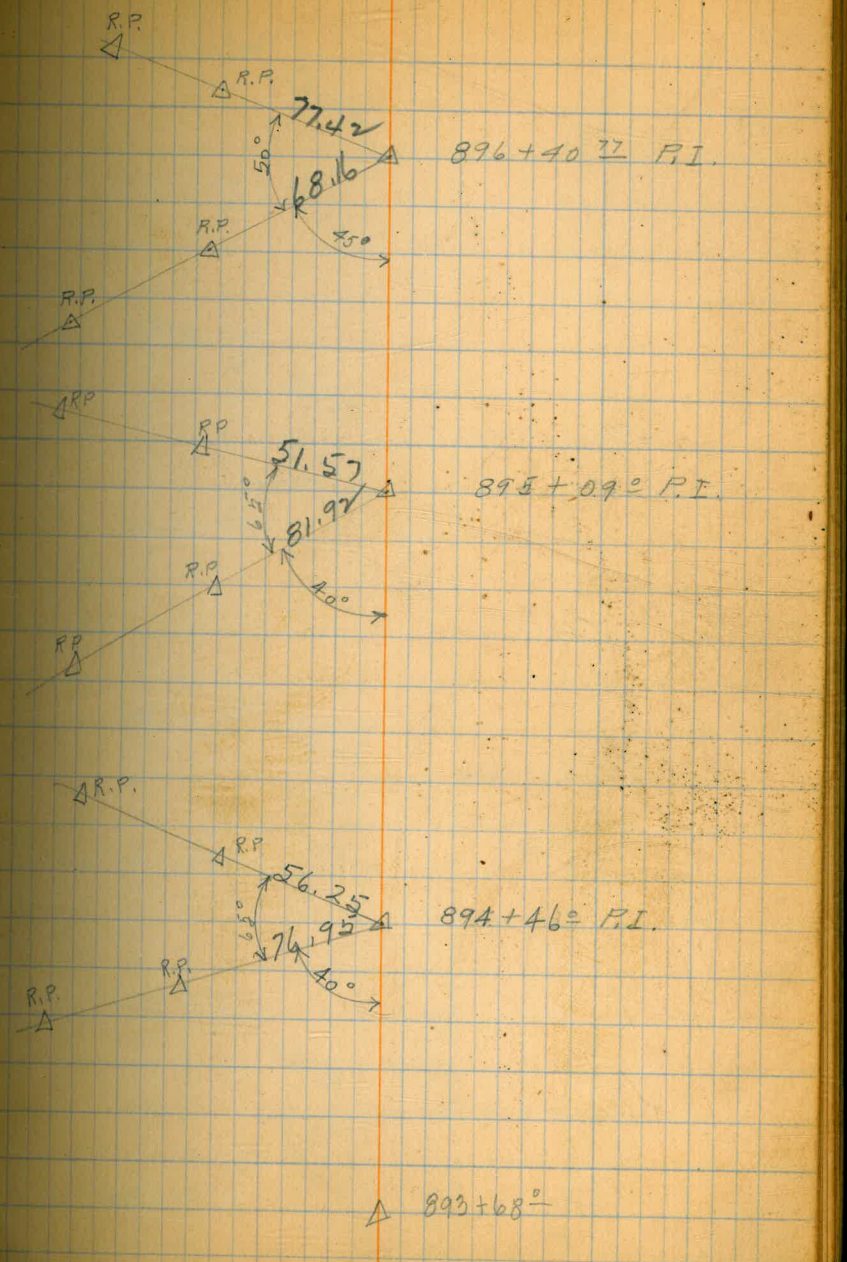
70° - 13° 10'

55° - 20° 20'

85° - 15° 28'

60° - 20° 22'

80° — 15° 53'



60° - 19° 33'

65° - 22° 16'

30° 27° 40'

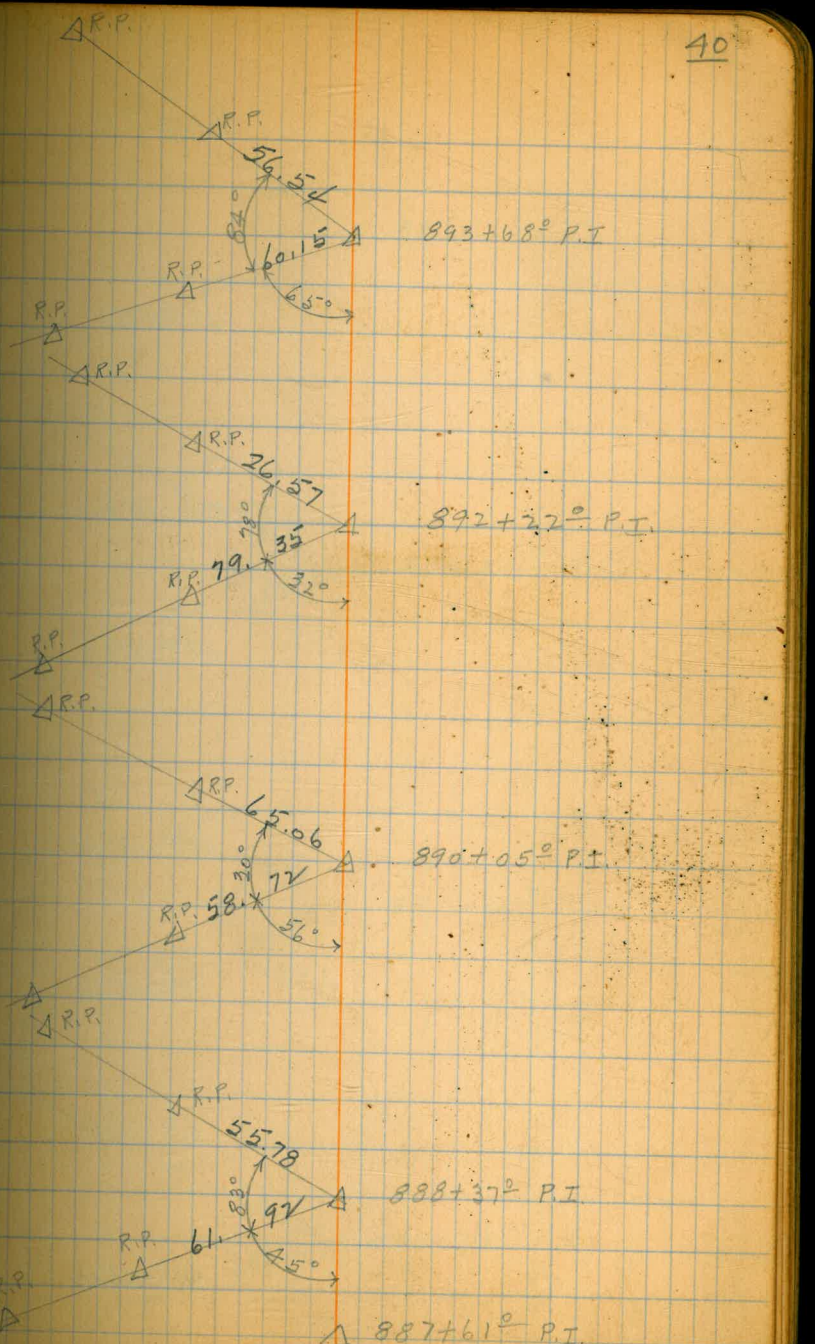
80° - 7° 20'

70° - 21° 39'

55° — 25° 23'

65° — 30° 53'

70° — 34° 48'



75° - 25° 13'

70° - 24° 19'

70° - 16° 22'

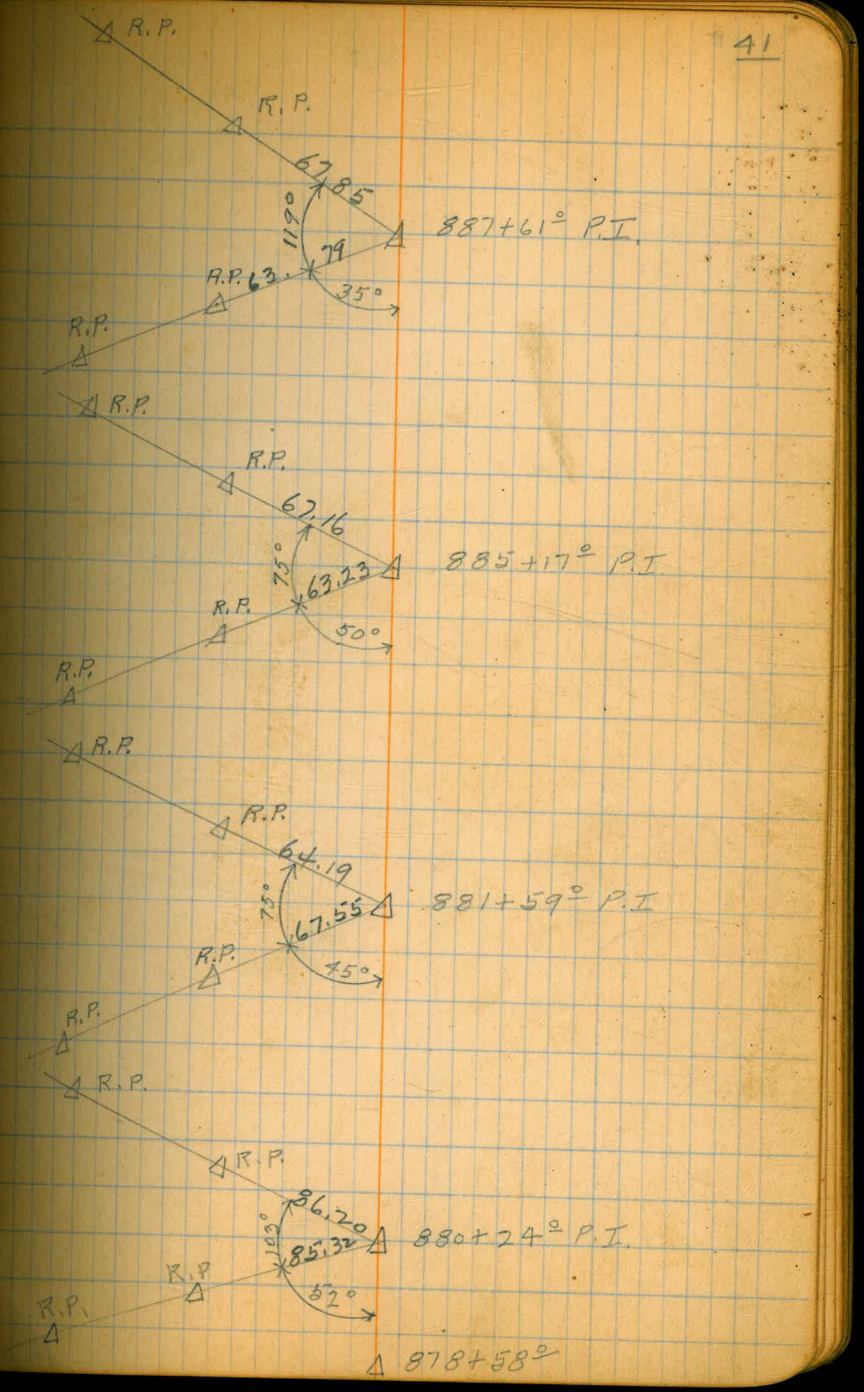
65° - 13° 23'

68° - 19° 16'

70° - 15° 12'

90° - 16° 42'

90° - 18° 33'

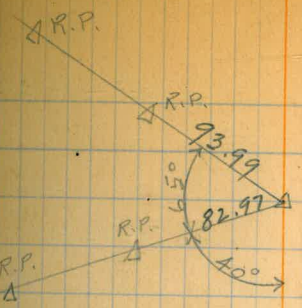


100° — 19°58'

87° — 17°31'

55° — 23°28'

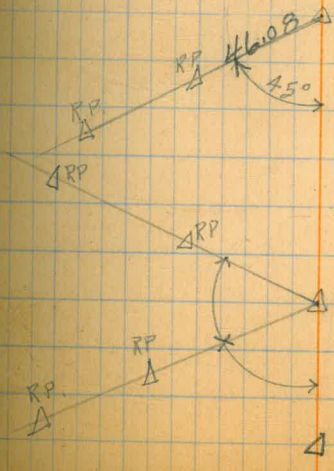
50° — 22°51'



878+58° P.I.

877+55° P.I.

876+53° P.I.



875+10°

Unable to Reference.

873+79°

104
37
67

141
45
96

126.57
62.57
64

100° – 23°58'

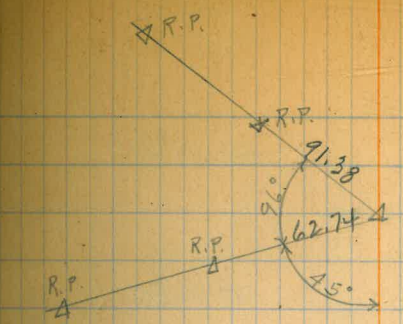
70° – 26°30'

75° – 36°55'

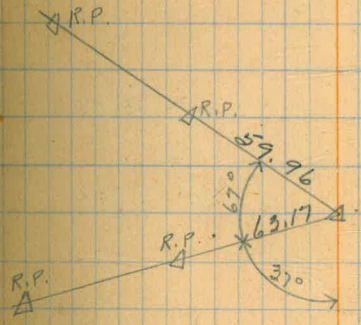
70° – 25°31'

71° – 37°58'

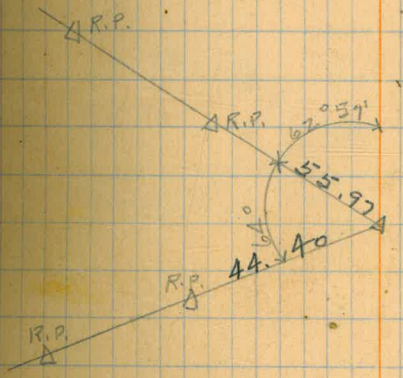
55° – 36°10'



873+79 = P.I.



872+61 = P.I.



871+37 = P.I.

870+54 = P.I.

Unable to Reference.

867+84 =

52° 18°40'

54° 14°42'

60° 31°48'

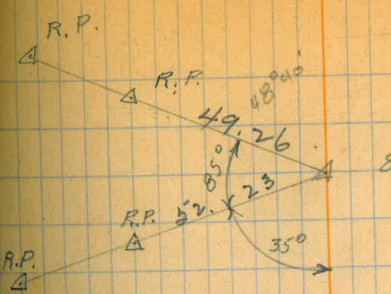
80° 20°49'

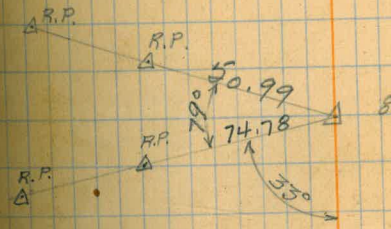
70° 33°16'

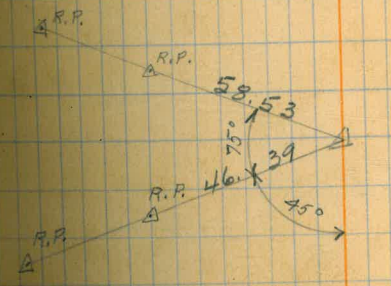
82° 26°52'

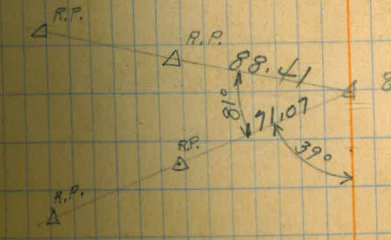
101° 28°55'

80° 27°20'









859+45

72°

101° – 21°56'

81° 23°58'

95° – 22°13'

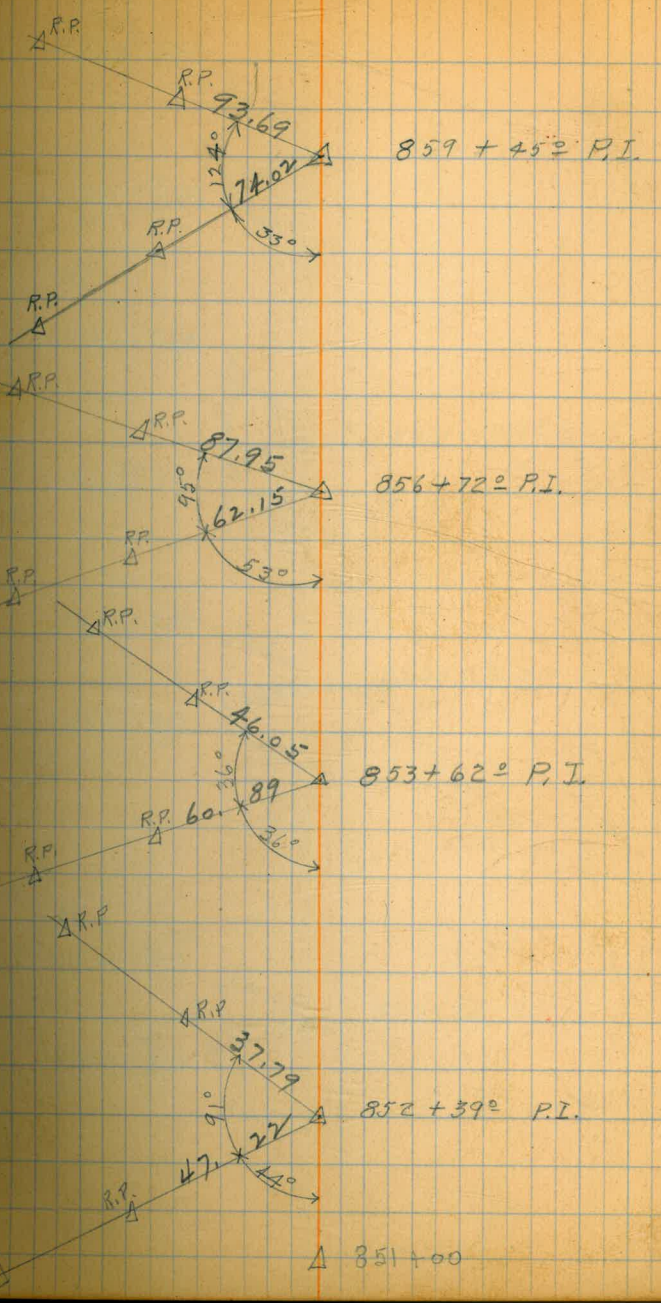
70° – 27°24'

62° – 42°02'

70° – 29°43'

48° – 38°04'

57° – 34°04'



91° – 33°42'

83° – 32°08'

86° – 31°44'

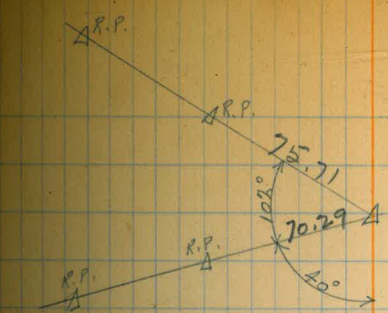
73° – 34°45'

82° – 29°10'

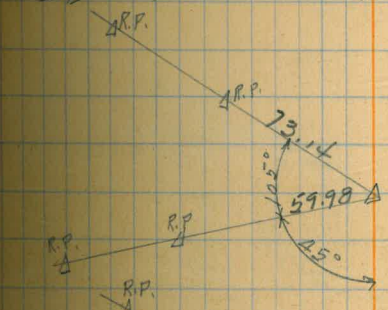
50° – 37°0'

57° 28°35'

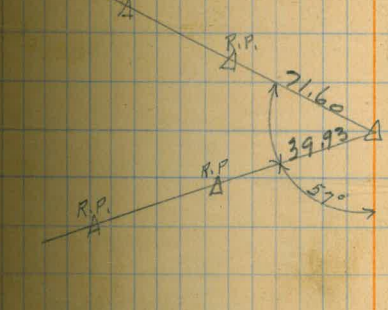
61° 22°57'



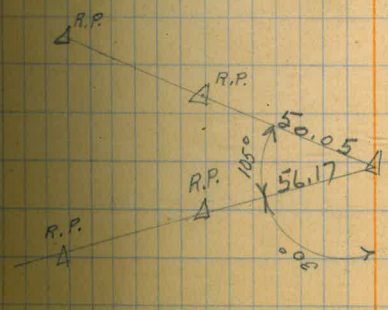
851+00 P.I.



850+18° P.I



849+25° P.I



847+23° P.I

845+53°

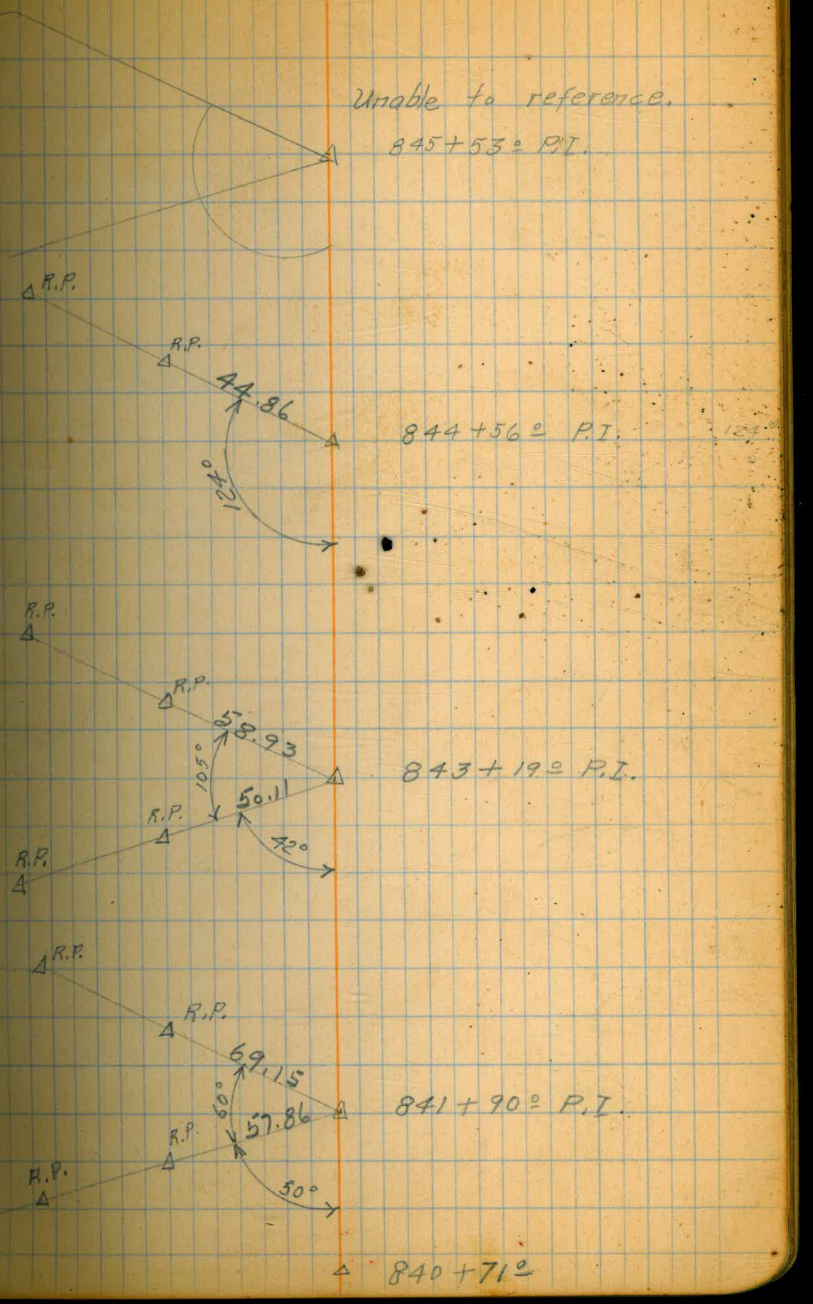
53° 32° 11'

65° 24° 58'

57° 28° 28'

75° 22° 47'

65° 27° 06'



56° 23°08'

58° 21°32'

45° 19°41'

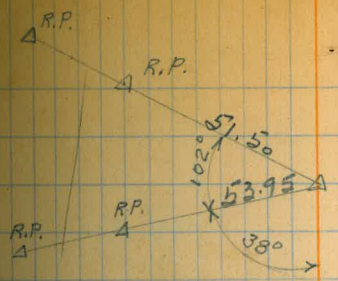
50° 17°53'

100° 5°27'

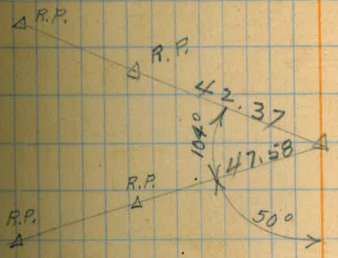
100° 5°20'

100° 8°20'

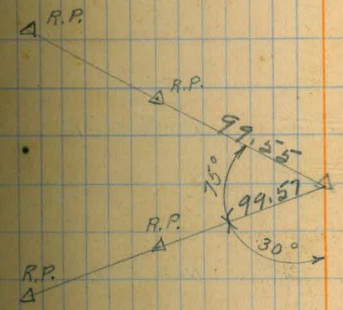
100° 9°18'



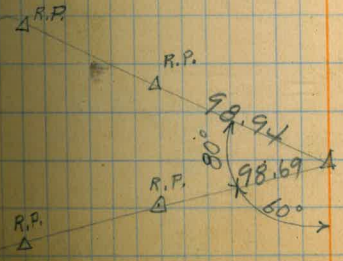
840 + 71° P.I



840 + 03° P.I.



838 + 16° P.I



836 + 41° P.I.

835 + 12° P.I

100= 6°36'

100= 4°32'

100= 6°56'

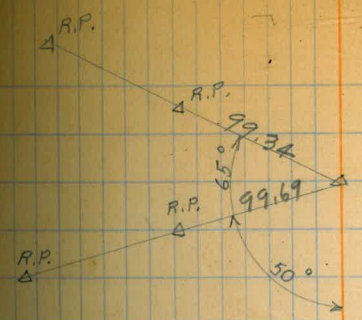
65= 6°22'

100= 6°31'

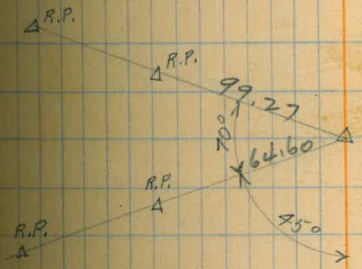
100= 5°01'

100= 8°07'

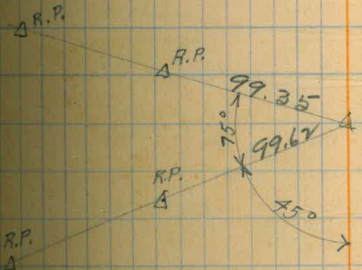
100= 2°31'



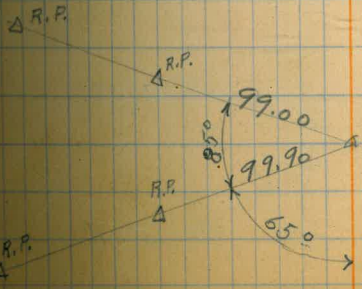
835+12= P.I.



833+20= P.I.



831+05= P.I.



829+65= P.I.

826+81= P.I.

80° 7°04'

60° 7°37'

70° 9°11'

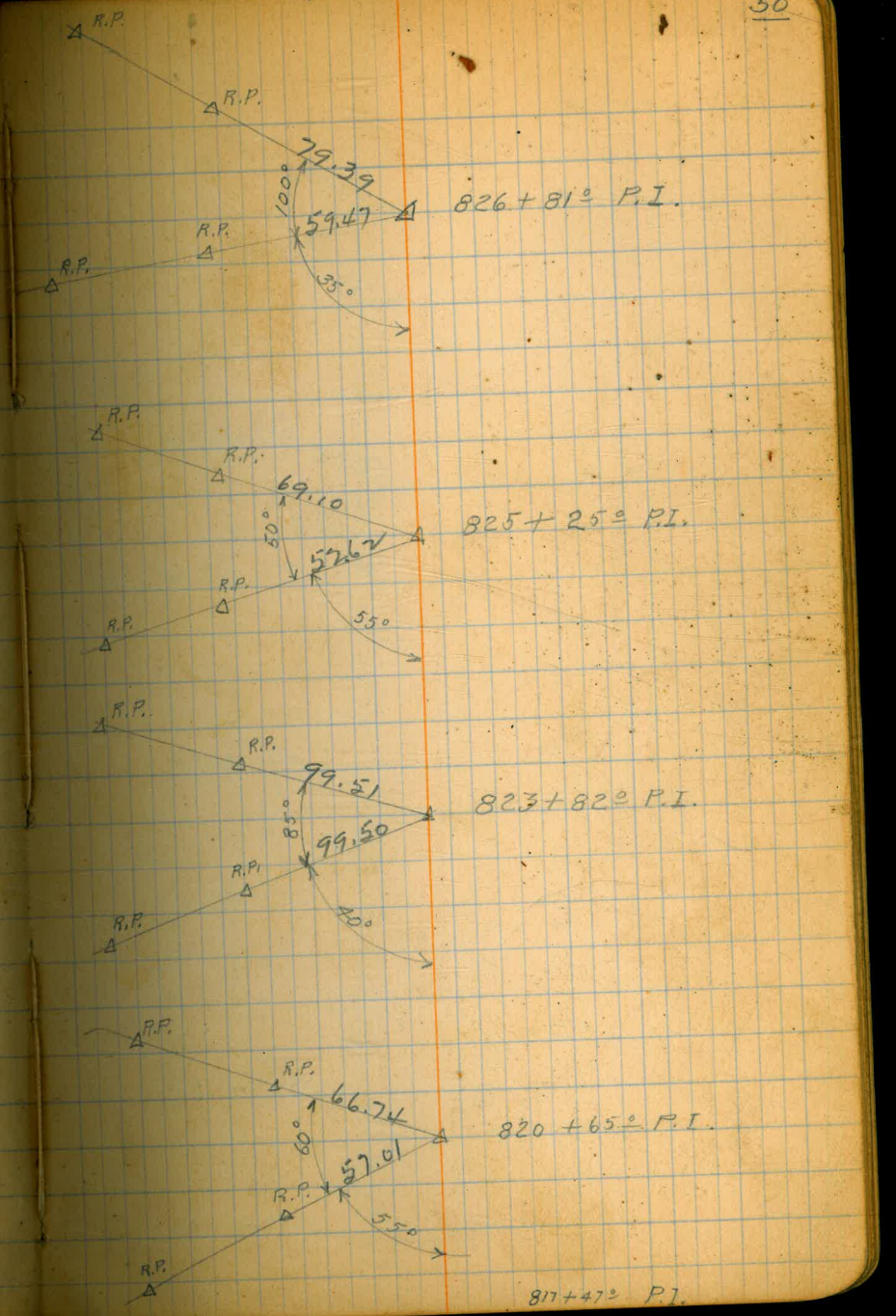
53° 6°53'

100° 5°39'

100° 5°44'

70° 17°33'

60° 18°09'



35° 34° 10'

50° 22° 23'

44° 28° 04'

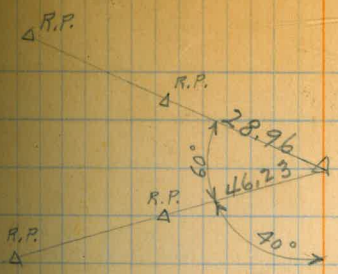
35° 33° 24'

53° 23° 06'

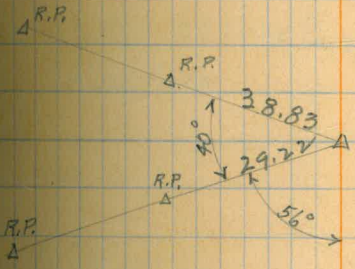
62° 15° 12'

54° 11° 08'

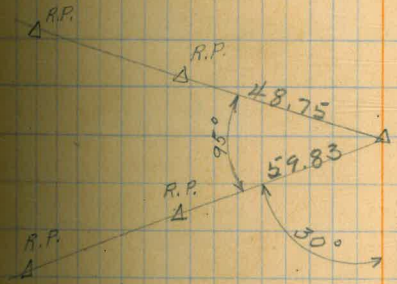
45° 8° 27'



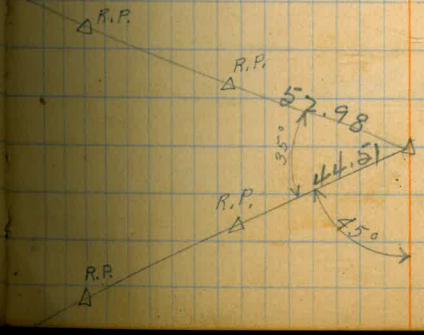
817 + 47 P.I.



816 + 00 P.I.



815 + 00 P.I.



811 + 11

810 + 98 P.I.

$100^{\circ} - 3^{\circ}50'$

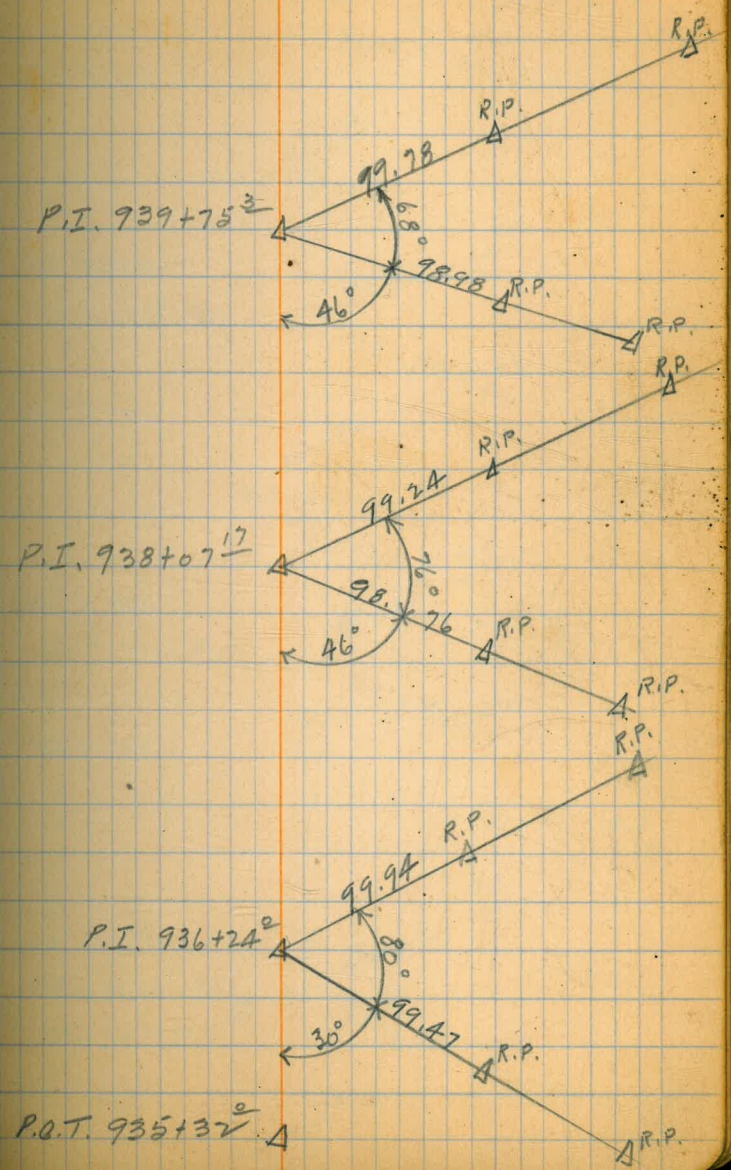
$100^{\circ} - 8^{\circ}11'$

$100^{\circ} - 7^{\circ}04'$

$100^{\circ} - 9^{\circ}02'$

$100^{\circ} - 2^{\circ}04'$

$100^{\circ} - 5^{\circ}53'$



100= 2°14'

80= 6°45'

100= 3°37'

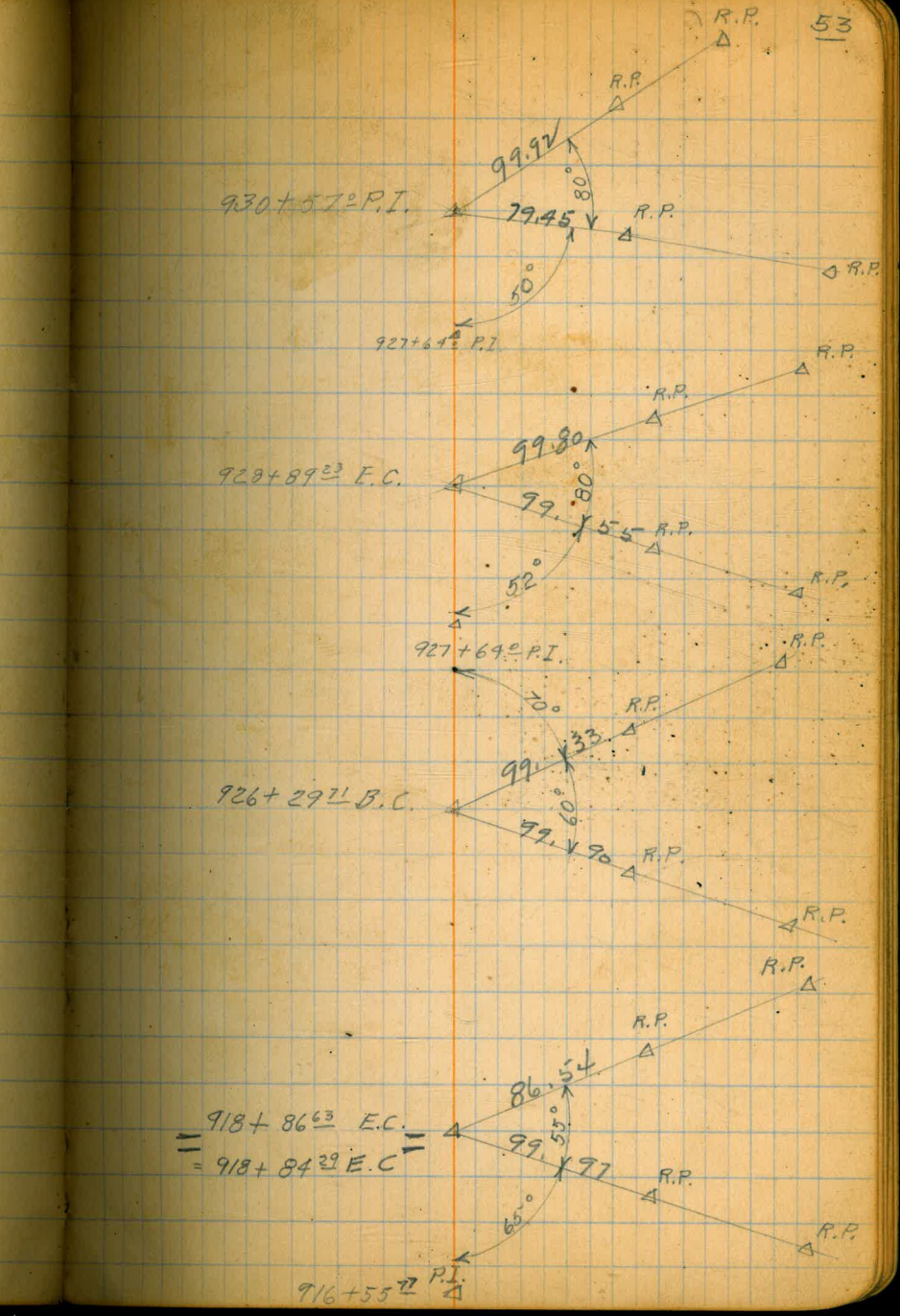
100= 5°26'

100= 6°38'

100= 2°33'

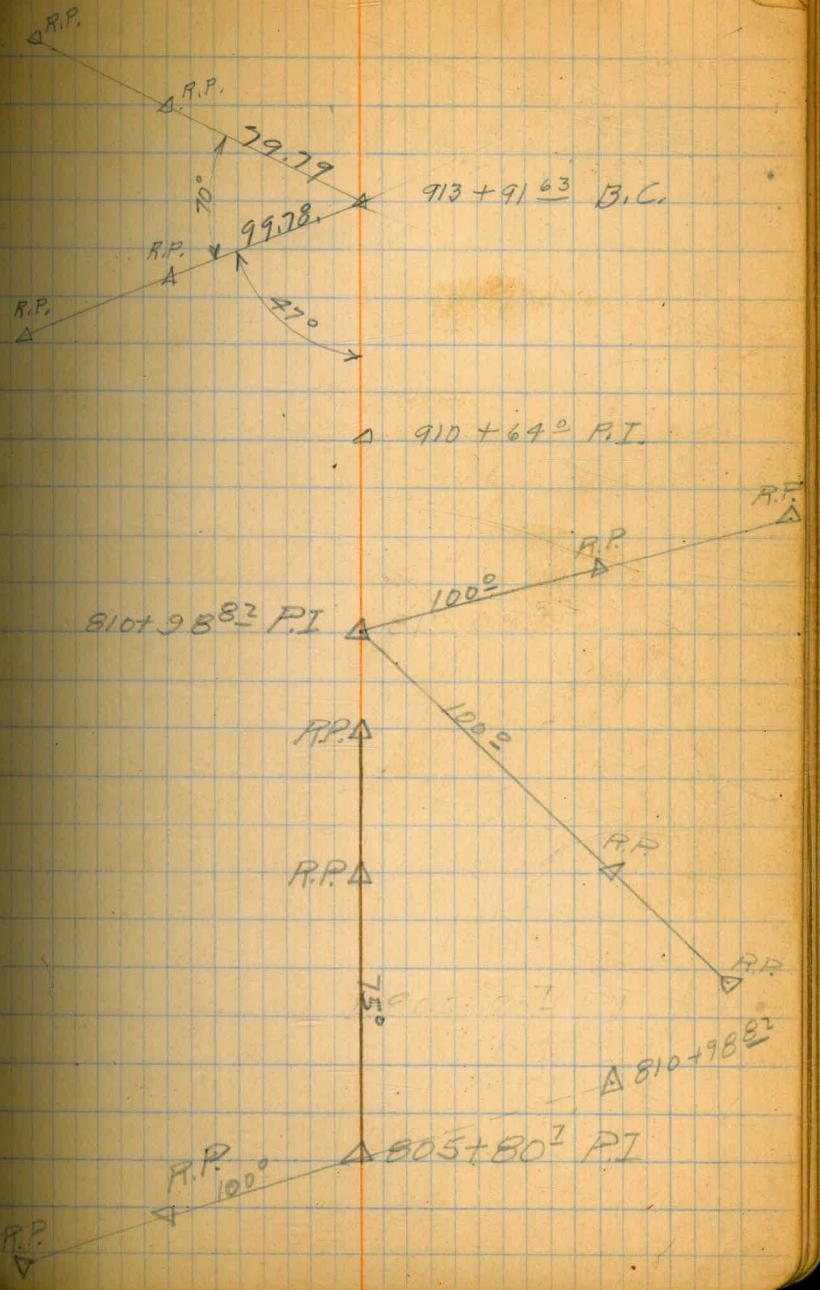
87= 5°52'

100= 1°25'



80° 4°10'

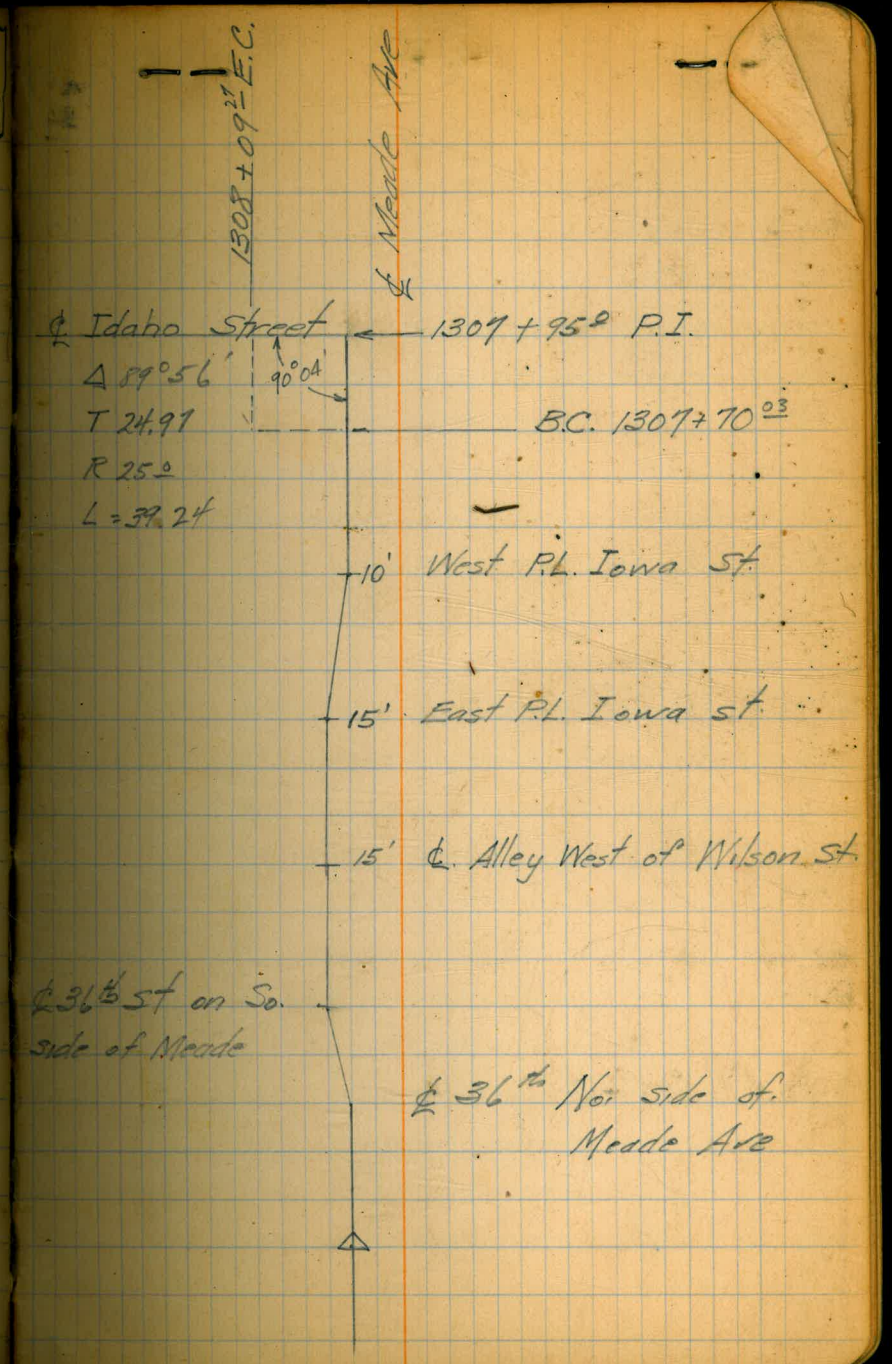
100° 3°47'



Survey El Capitan. Pipe Line
on Meade Ave

(Notes Copied from loose pages fastened to back of page 56)

Sta.	Def. L.
1315+64.40	
1314+14.27	P.o.t.
1308+09.27	E.C.
1307+95.0	89°56'L P.I.
1307+70.03	B.C. (see opposite page →)
1285+55.61	17°06'L.
1284+72.07	16°22'R.
1257+04.92	
~~1252+15.0~~ ~~1252+5.~~	1°48'R
1250+54.84	1°48'L



(Notes Copied from loose pages fastened to back of page 56)

Sta. Defl. L.

1315+64.40

1314+14.27 P.o.t.

1308+09.27 E.C.

1307+95.0 89°56'L P.I.

1307+70.03 B.C. (see opposite page →)

1285+55.61 17°06'L

1284+72.07 16°22'R.

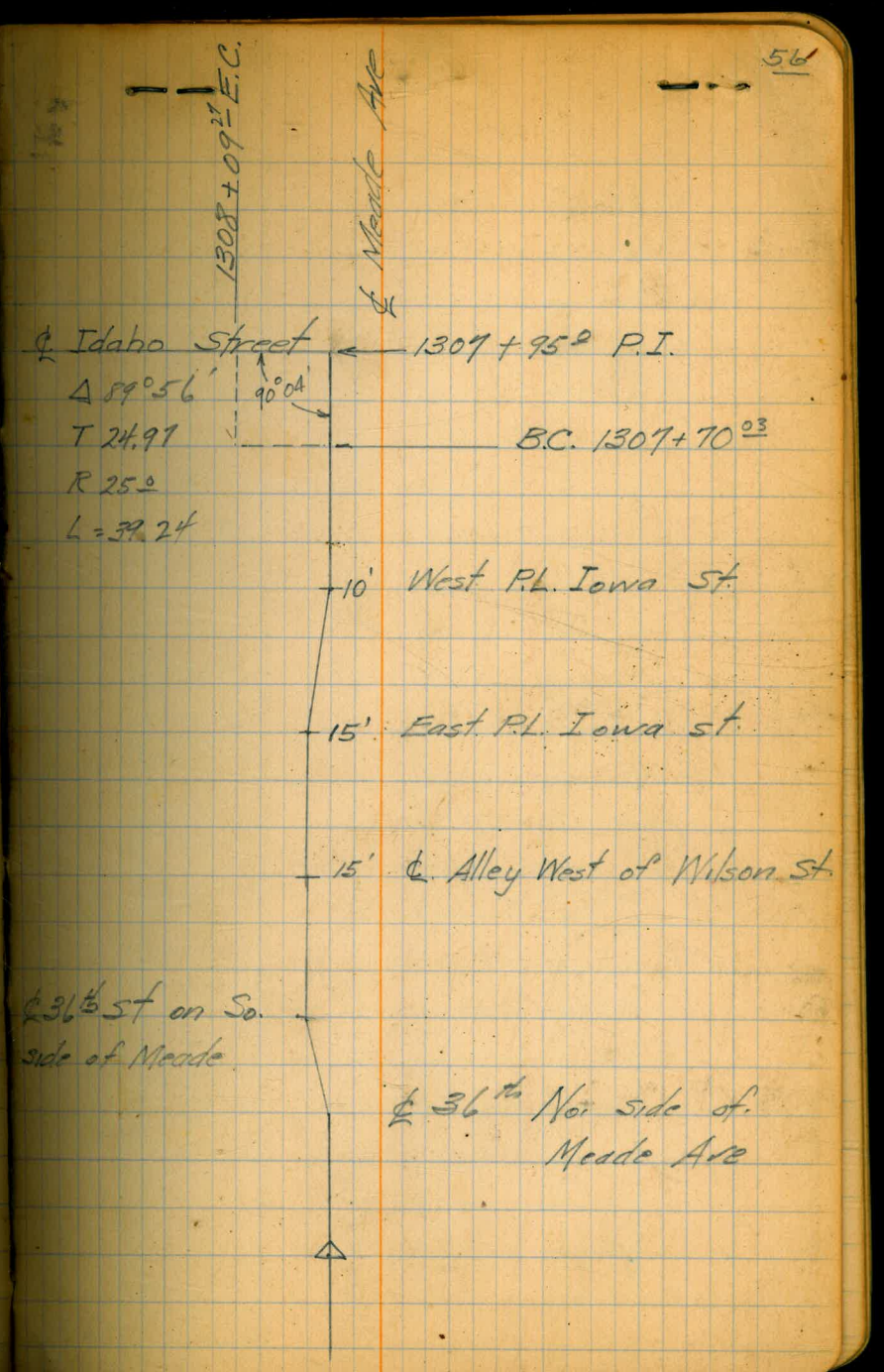
1257+04.92

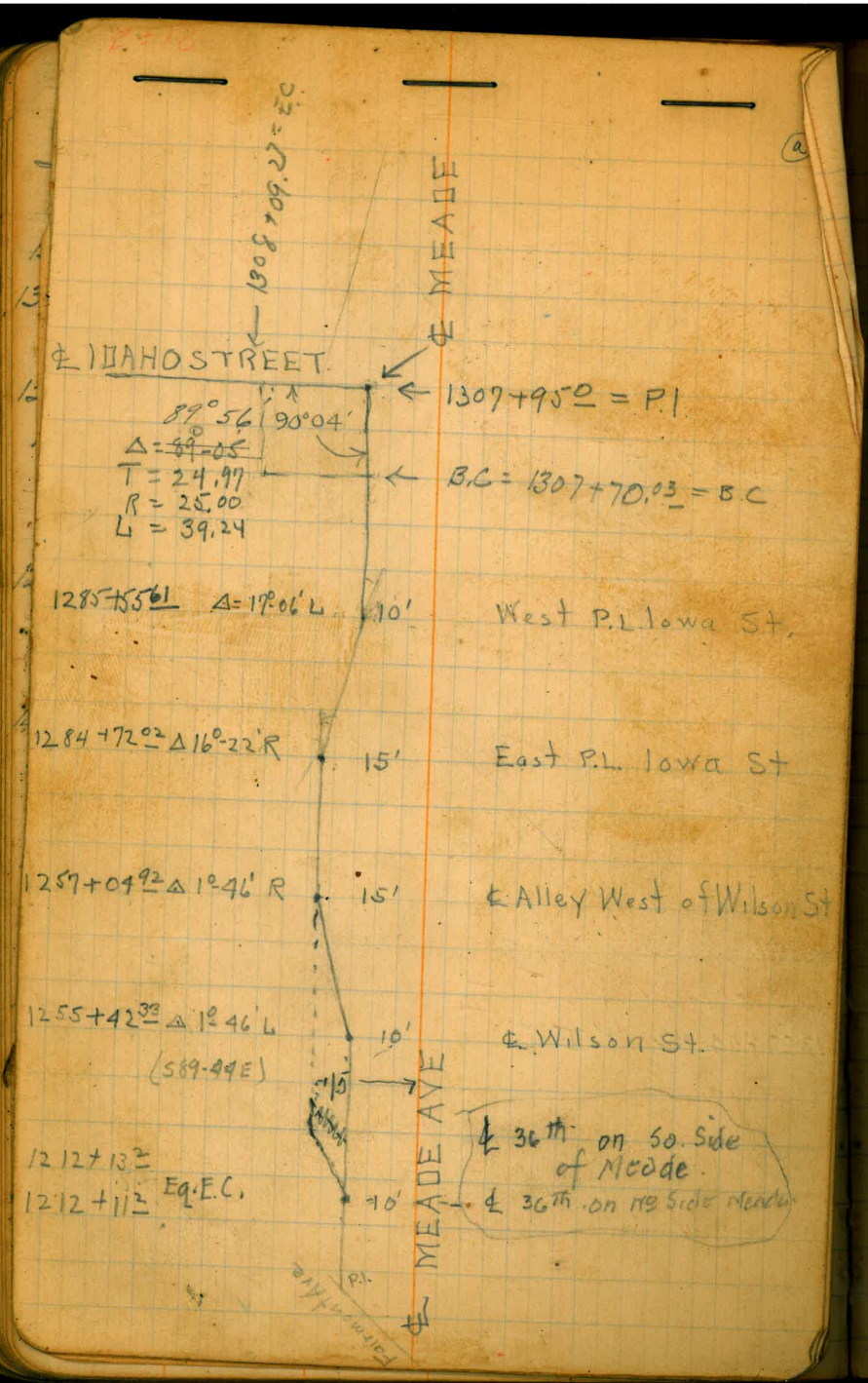
1252+15.0

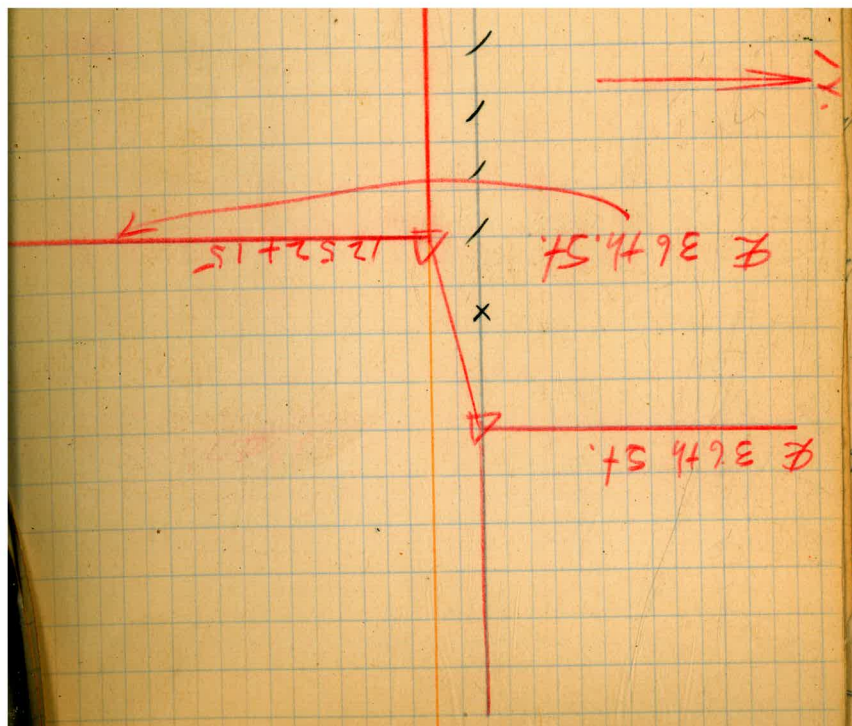
~~1252+51~~

1°48'R

1250+54.84 1°48'L




1308+09.27 = P.C.
℄ MEADE
℄ IDAHO STREET.
1307+95.00 = P.I.
89°56'
90°04'
Δ = 89°-05'
T = 24.97
R = 25.00
L = 39.24
B.C = 1307+70.03 = B.C
1285+55.61 Δ = 17°-06' L
10'
West P.L. Iowa St.
1284+72.02 Δ 16°-22' R
15'
East P.L. Iowa St
1257+04.92 Δ 1°-46' R
15'
℄ Alley West of Wilson St
1255+42.33 Δ 1°-46' L
(S89-44E)
10'
℄ Wilson St.
15'
℄ 36th on So. Side of Meade.
℄ 36th on No Side Meade
1212+13.27
1212+11.27 Eq. E.C.
10'
P.I.
℄ MEADE AVE
Palm Tree Ave



1250+54.84 P.I. = 1°48' R.
1250+54.98 P.O.T.

1252+15 P.I. 1°48' L.

1257+04.92 P.O.T. =
1257+04.92 P.I.

P.I. = 10°48' R.

12+50+54.98 P.O.T.

(3)

1315+64 40 P.O.T.

1314+14 27 P.O.T.

1308+09.77 E.C.

(6)

13

13

1

12

12

12

12

12

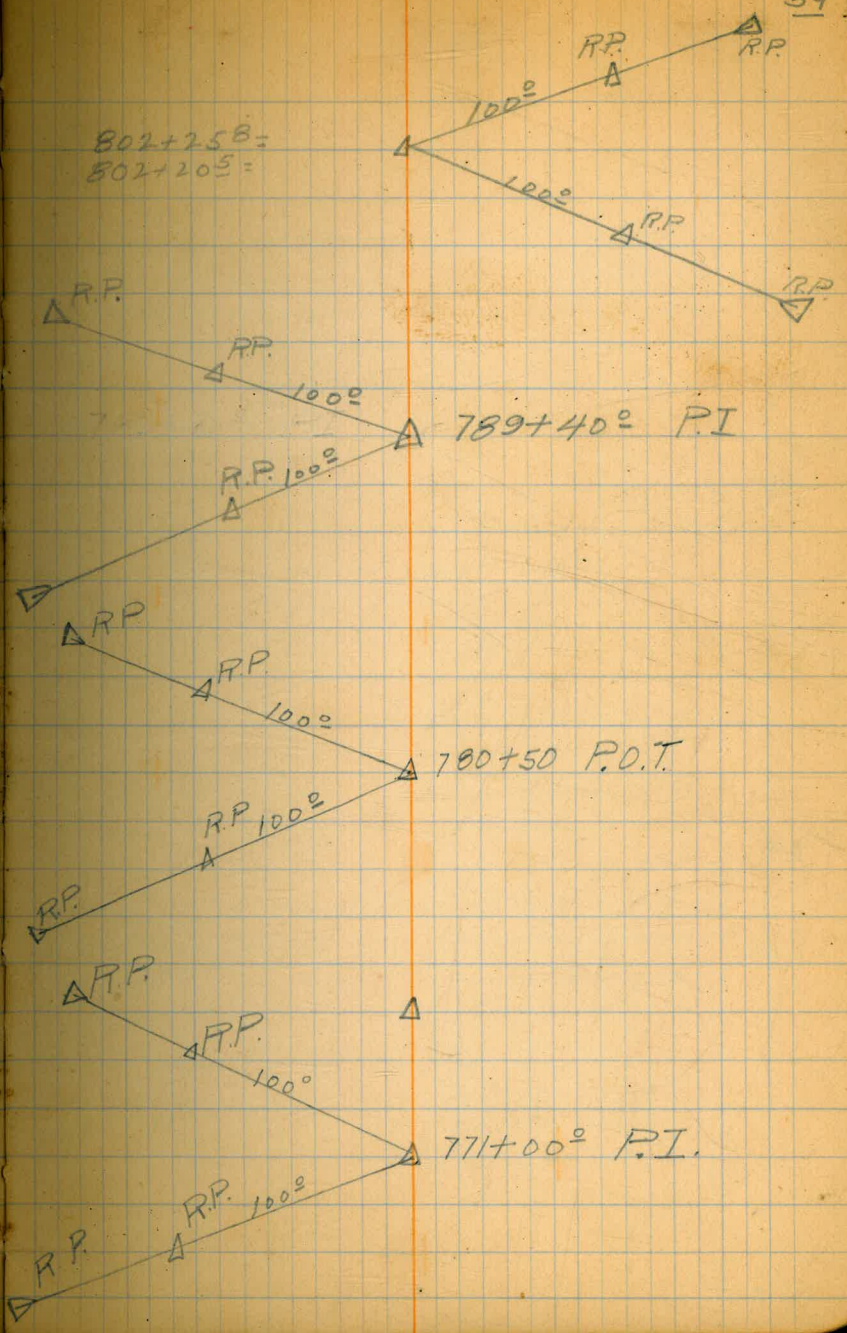
12

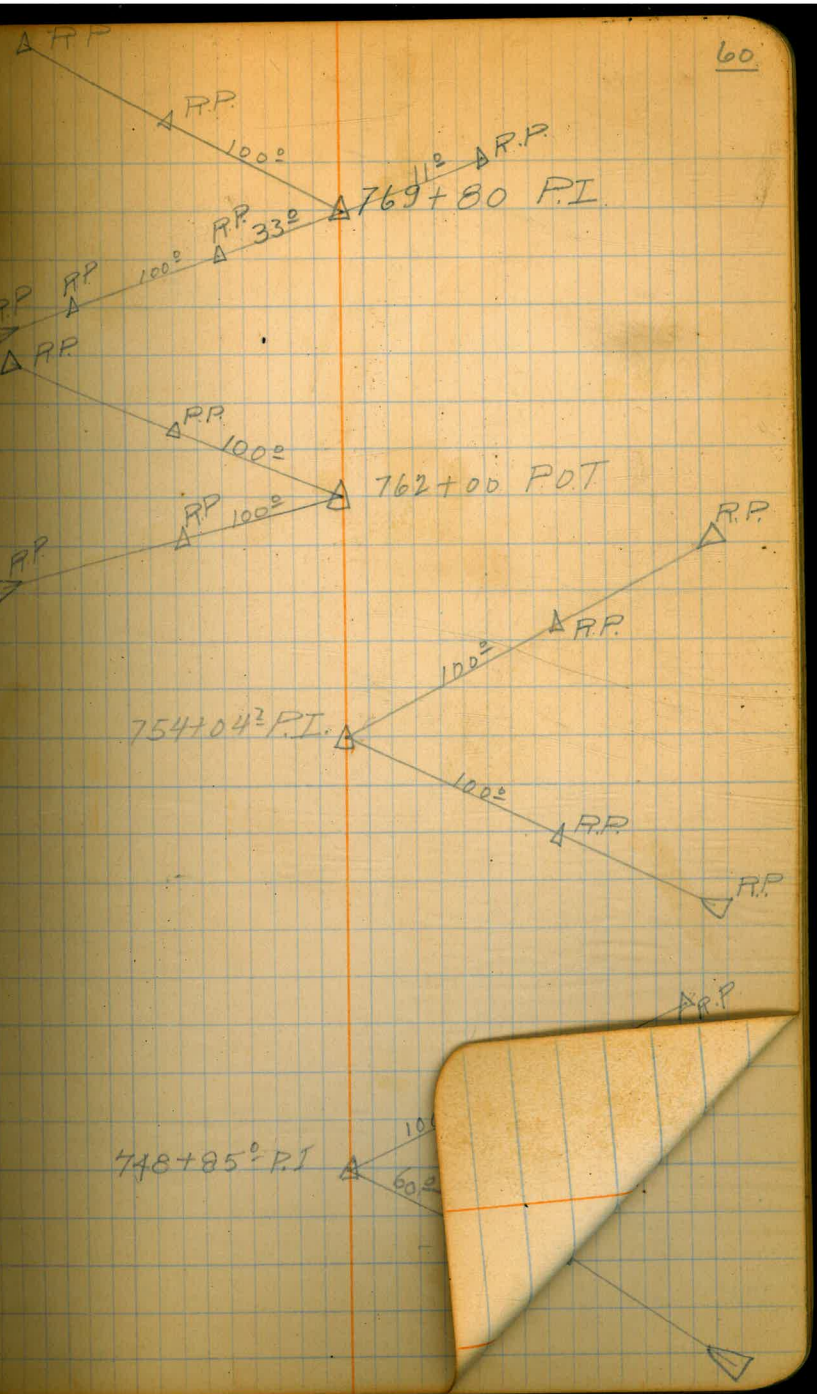
& Idaho St. ℄ South Edge Pavement El Cajon

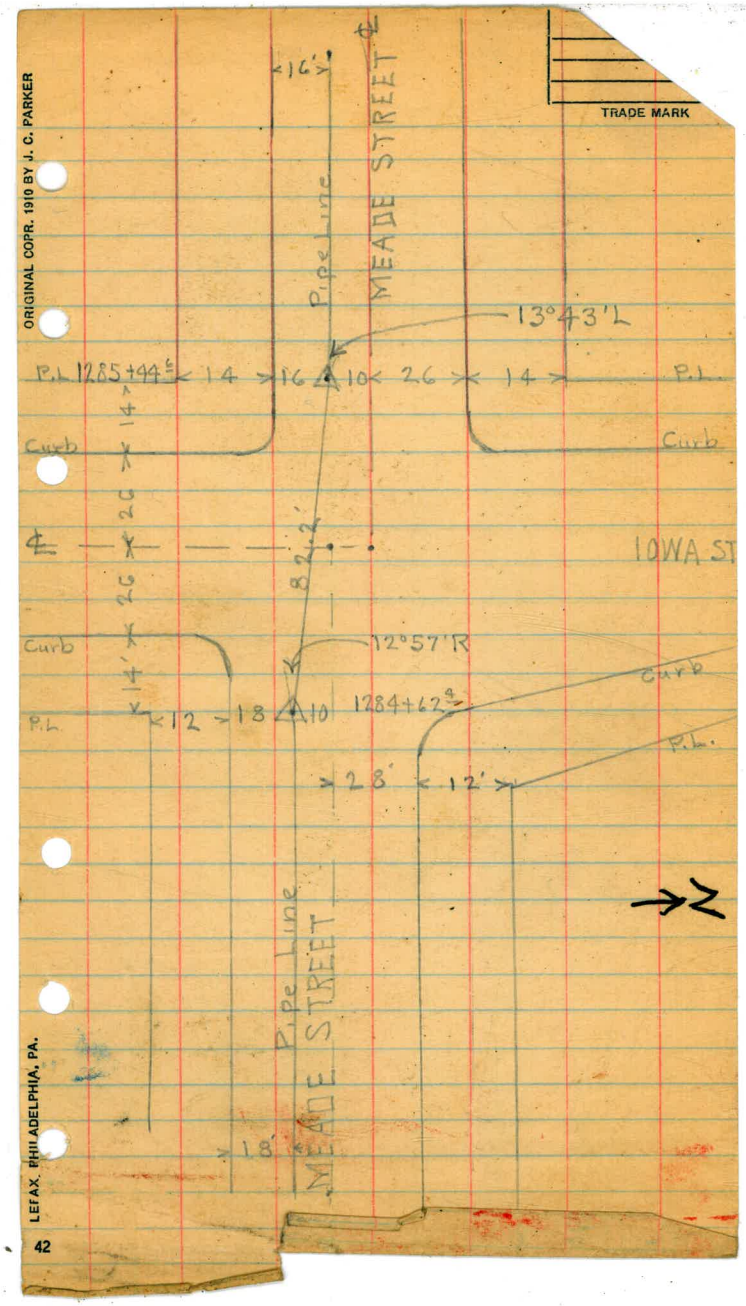
& Idaho St. ℄ North Edge Pavement El Cajon.

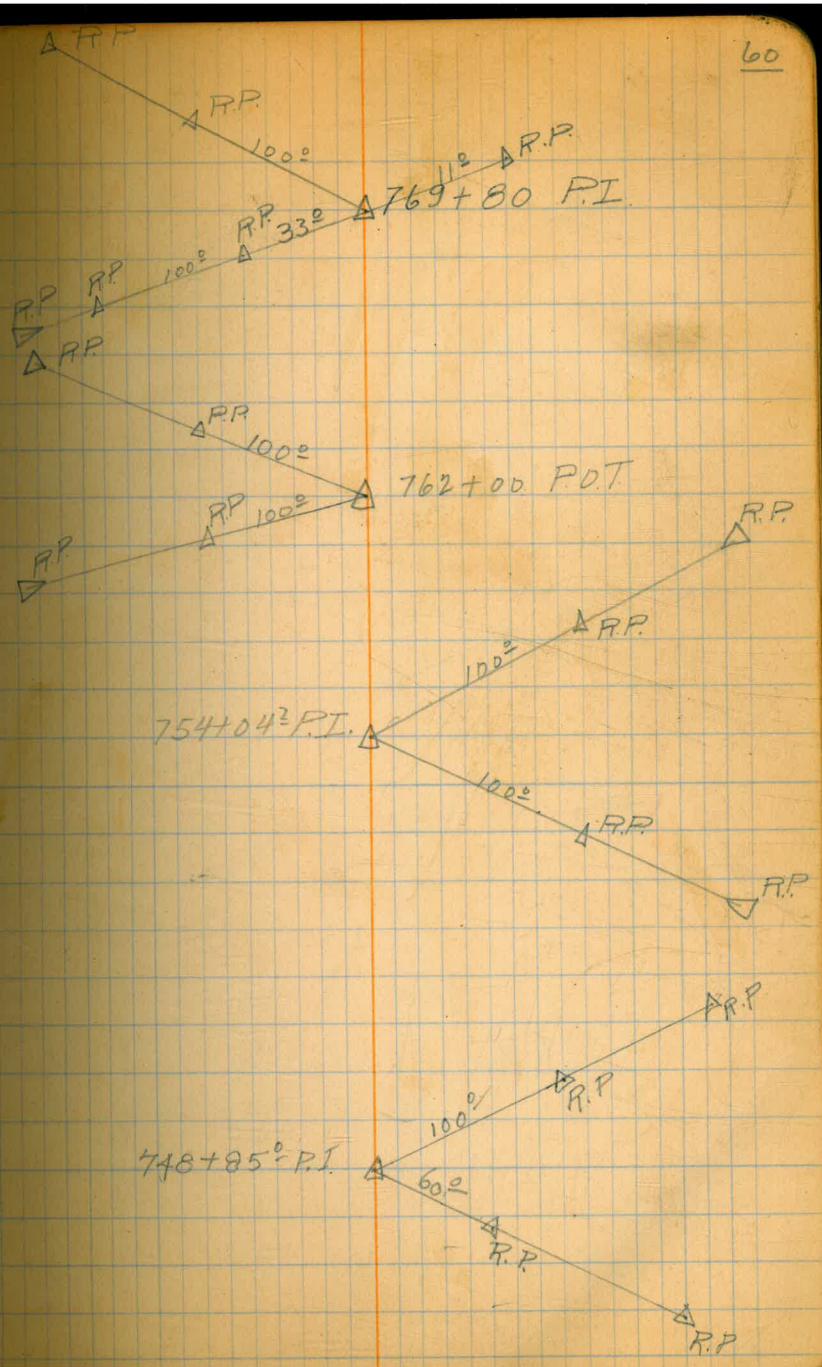
Reference Points From
Sta. 802+258 Back.

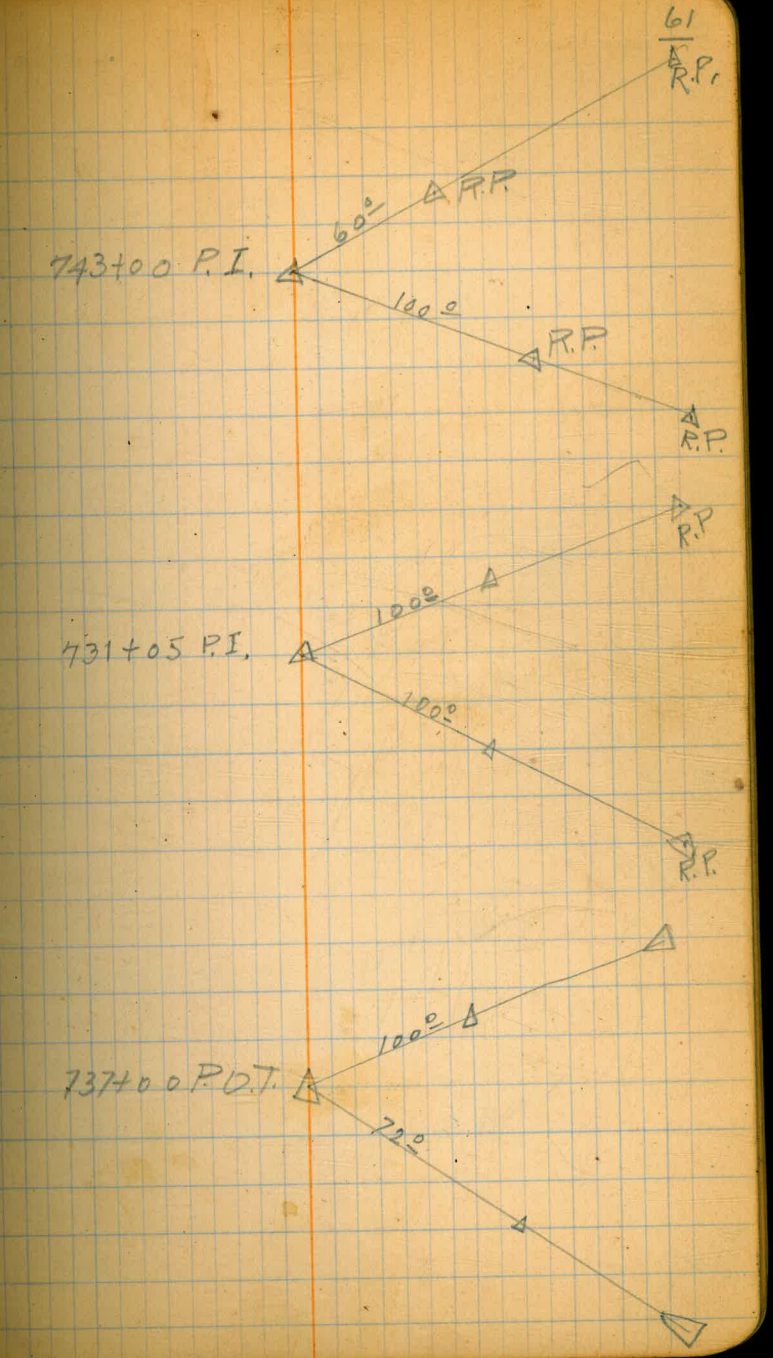
802+25 B ÷
802+20 5 =



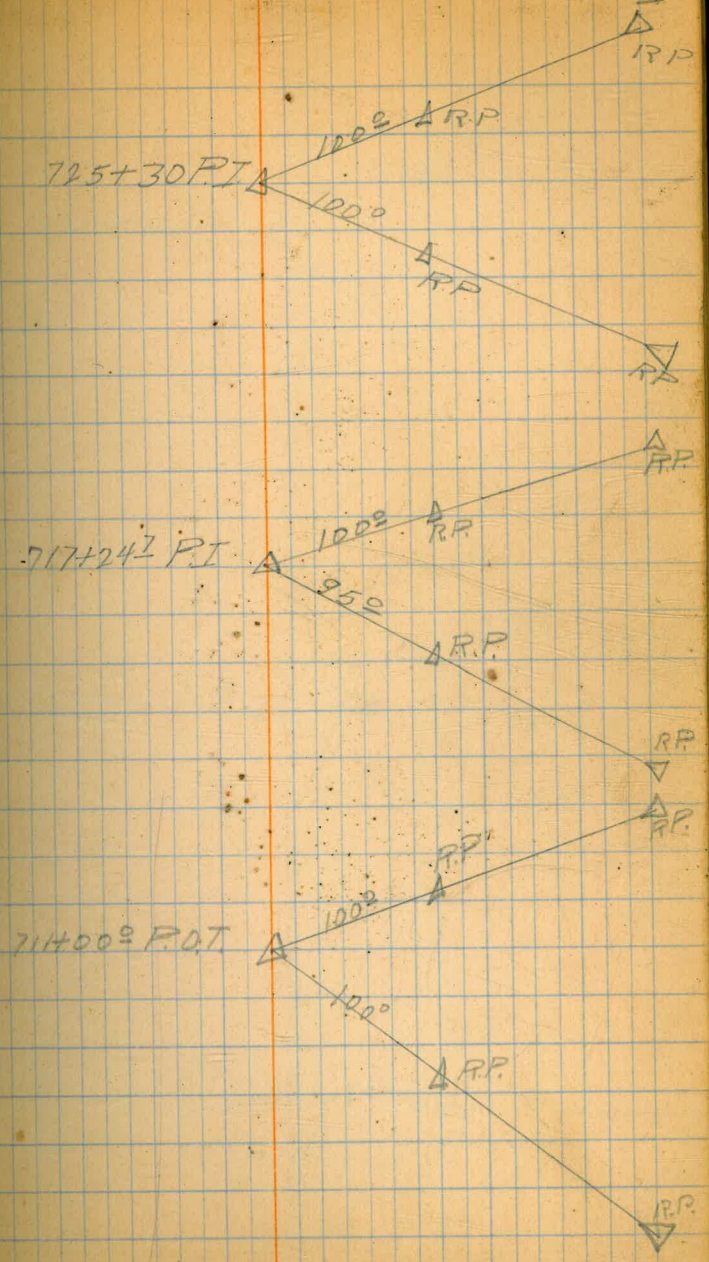

R.P.
R.P.
100'
11°
R.P.
769+80 P.I.
R.P.
33°
R.P.
100'
R.P.
R.P.
R.P.
R.P.
100'
762+00 P.O.T
R.P.
100'
R.P.
R.P.
R.P.
100'
754+04 P.I.
100'
R.P.
R.P.
R.P.
748+85 P.I.

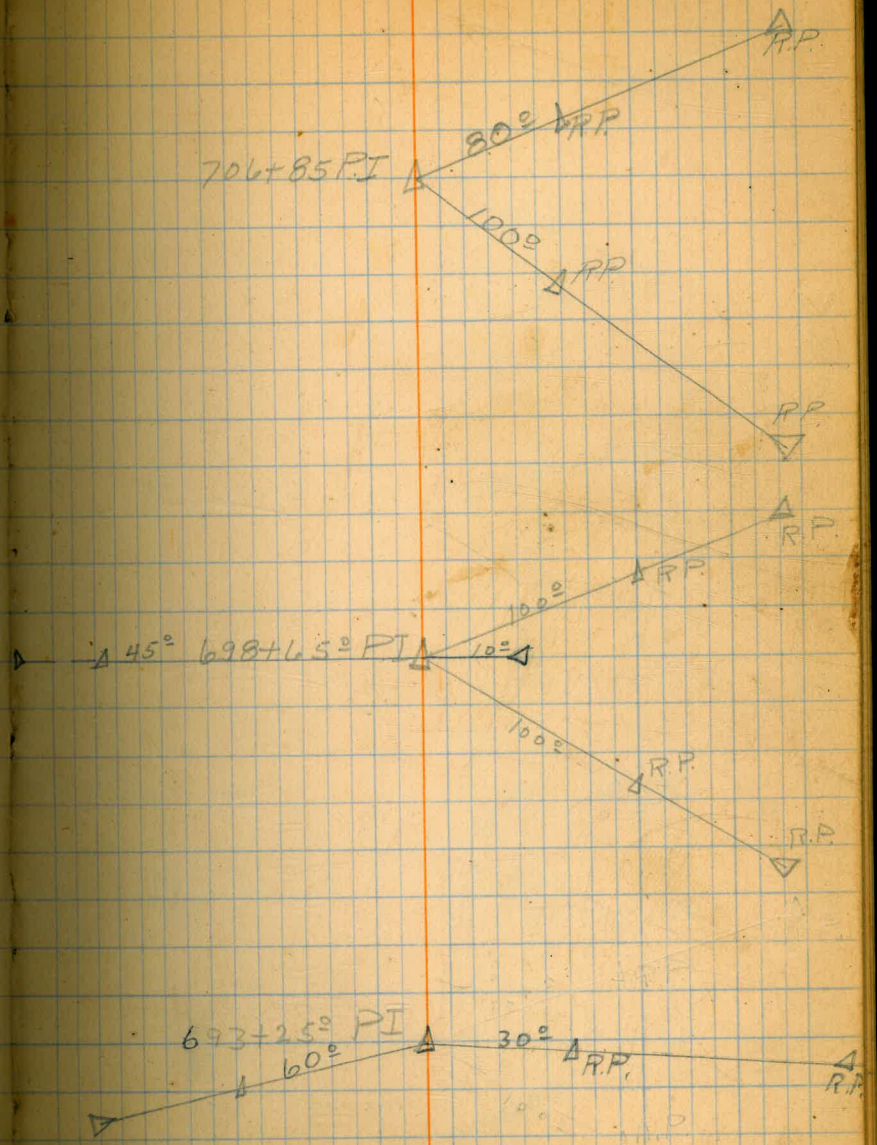

ORIGINAL COPR. 1910 BY J. C. PARKER
TRADE MARK
MEADE STREET
Pipe Line
13°43'L
P.L. 1285+94.5
14
16
10
26
14
P.L.
Curb
Curb
IOWA ST
82.2'
12°57'R
Curb
P.L.
12
18
10
1284+62.8
Curb
P.L.
28'
12'
N
Pipe Line
MEADE STREET
18'
LEFAX, PHILADELPHIA, PA.
42

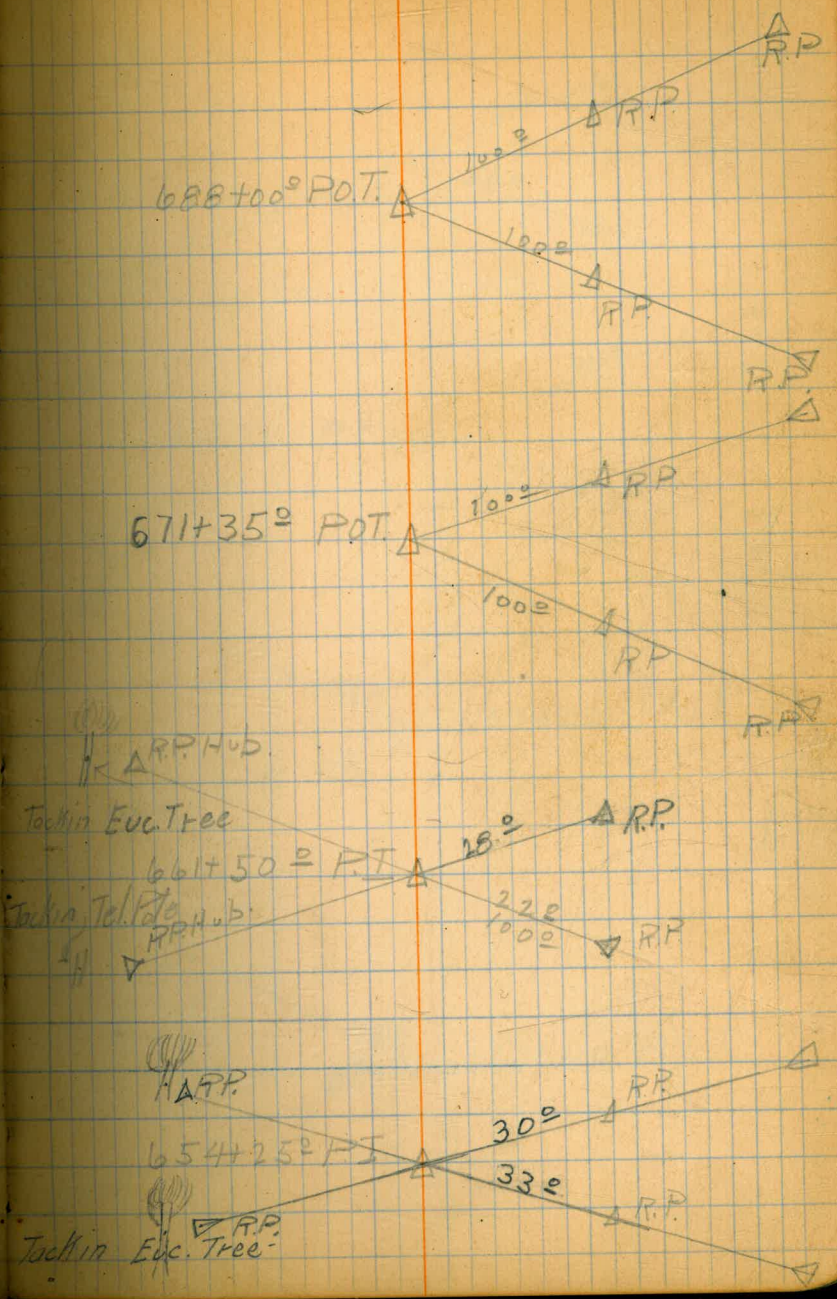

R.P.
R.P.
100°
11°
R.P.
769+80 P.I.
R.P.
33°
R.P.
R.P.
100°
R.P.
R.P.
R.P.
100°
762+00 P.O.T
R.P.
R.P.
100°
R.P.
R.P.
754+04 P.I.
100°
R.P.
R.P.
R.P.
R.P.
100°
R.P.
748+85 P.I.
60°
R.P.
R.P.

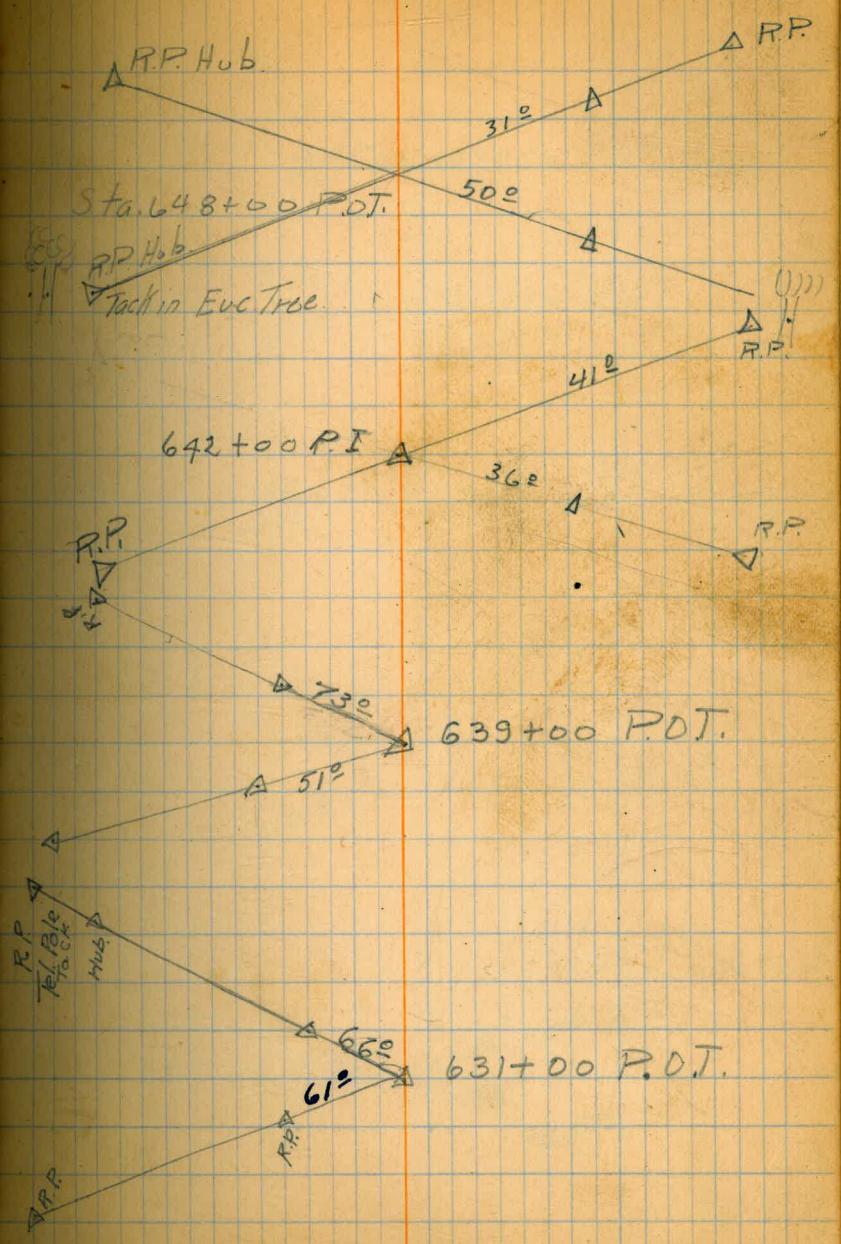

R.P.
R.P.
60°
743+00 P.I.
100°
R.P.
R.P.
R.P
100°
731+05 P.I.
100°
R.P.
100°
737+00 P.O.T.
72°

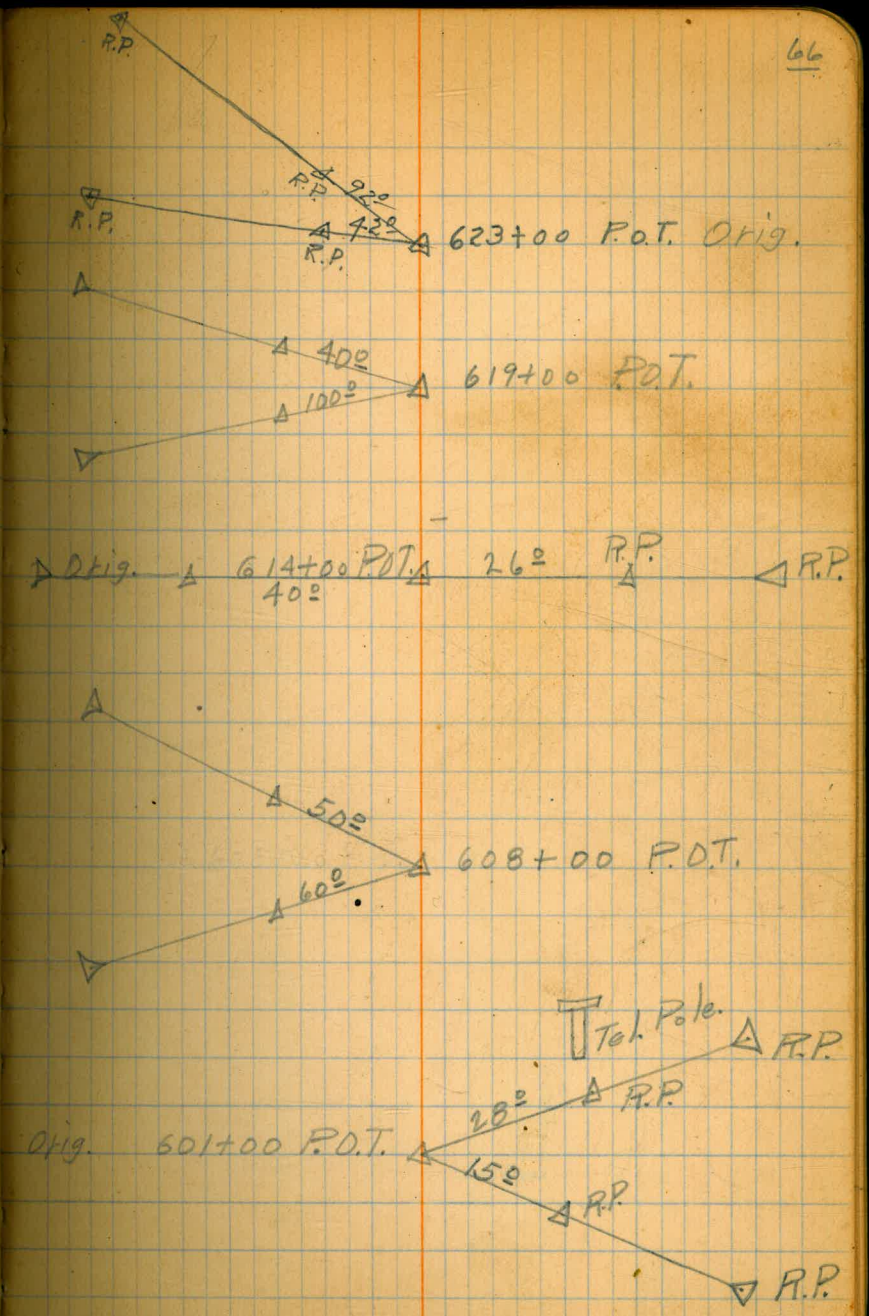
62


R.P.
100°
R.P.
725+30 P.I.
100°
R.P.
R.P.
R.P.
100°
R.P.
717+24.1 P.I.
95°
R.P.
R.P.
R.P.
P.P.
100°
711+00 P.O.T.
100°
R.P.
R.P.


R.P.
80°
R.P.
706+85 P.I.
100°
R.P.
R.P.
R.P.
R.P.
100°
45°
698+65 P.I.
10°
100°
R.P.
R.P.
693+25 P.I.
30°
R.P.
60°
R.P.


R.P.
R.P.
688+00 P.O.T.
100'
100'
R.P.
R.P.
671+35 P.O.T.
100'
R.P.
100'
R.P.
R.P.
R.P. Hub.
Tack in Euc. Tree
661+50 P.I.
18°
R.P.
Tack in Tel. Pole
R.P. Hub
22'
100'
R.P.
R.P.
654+25 P.I.
30°
R.P.
33'
R.P.
R.P.
Tack in Euc. Tree


R.P.
R.P. Hub.
31°
Sta. 648+00 P.O.T.
50°
R.P. Hub
Tack in Euc. Tree
R.P.
41°
642+00 P.I.
36°
R.P.
R.P.
73°
639+00 P.O.T.
51°
R.P.
Tel. Pole
10 C.F.
Hub.
66°
631+00 P.O.T.
61°
R.P.
R.P.


R.P.
R.P.
92°
R.P.
42°
R.P.
623+00 P.O.T. Orig.
40°
100°
619+00 P.O.T.
Orig.
614+00 P.O.T.
40°
26°
R.P.
R.P.
50°
608+00 P.O.T.
60°
Tel. Pole.
R.P.
R.P.
28°
Orig. 601+00 P.O.T.
15°
R.P.
R.P.

No. Line Lot "F" Lot 70 April 22 - Leach T Duermit Webb Clarett Cosine

Sta.	Hor. Dist.	Slope Dist.	V. Angle
3579 1			
	736 2		
	189 2		
	64 2		
	84 2		
	84 2		
	224 2		
2198 1			
	296 1 ✓	298 2	6°26'
1902 2			
	181 2 ✓	181 3	2°19'
1720 3			
	107 4		
	115 2		
1498 4			
	102 3	103 1	4°39'
1395 6			
	47 2		
	49 2		
	40 2		
	30 2		
	224 2		
1005 6			
	139 2		
	160 2		
706 6			
	297 6 ✓	298 2	3°08'
409 2			
	269 2 ✓	269 2	1°05'
140 2			
	140 2		
0+00			

204 2
74 2
9 2
19 2
44 2
50 2
44 2
44 2
59 2
90 2
99 2

-45-

72

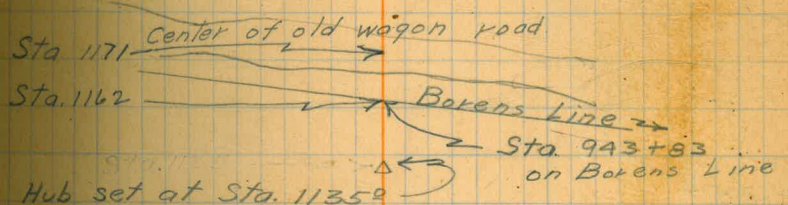
Hot and Hazy —

Hub set at Sta. 2645 2 ft.

△

Hub set at Sta. 1180 2 ↓

△



△

Hub set at Sta. 1135 2

Hub

Hub

N.E. Cor. Lot "E" of lot 70

No. Line Lot "F" Lot 70. April 23

Converse
Leach
Duermit
Webb
Clovert

Sta.	Hor. Dist	Slope Dist	V. Angle	Cosine
5290 ±				
	61 ½			
	49 ±			
	29 ±			
	29 ±			
	34 ±			
	55 ±			
	146 ½			
	209 ±			
	139 ±			
	55 ±			
	298 ±			
Apr. 23				
4185 ±				
	75 ½			
	40 ±			
4070 ½				
	199 ±	204 ±	12°15'	.97723
3870 ½				
	291 ±	298 ±	11°55'	.97845
3579 ½				

Clear and Warm

73

N.E. Cor Lot "F"

East Line Lot "E" Lot 70.

Continued from page-79 Apr. 20.

Leach Duermit Webb Clovert. Worm

74

Sta.	Hor. Dist	Slope Dist	V. Angle	Cosine
9814 7				
	146.2	154°	18°22'	.94906
4668 5				
Apr. 21.				
	102 5	104°	9°47'	.98546
4566 8				
	297 9	298°	1°35'	.99962
4268 1				
139° 69 2 144° 298°				
3618 1				
	186 4	186 4	1°17'	.99975
3431 7				
	130 9	131 5	2°31'	.99904
3300 8				
	47.4	48 65	12°54'	.97476
3253 1				
298°				
2955 1				
	168.7	169°	3°37'	.99801
P.O.T.				
2786 7				
145 1				
2641 6				
79 5				
149				
2413 1				
P.O.T.				

N. 0°07'W

3862 Property Line → Sta. 962+14 Borens Line ← Borens Line

3822 Center of rd →

Hub set for chaining

Hub set for chaining

Hub set for chaining

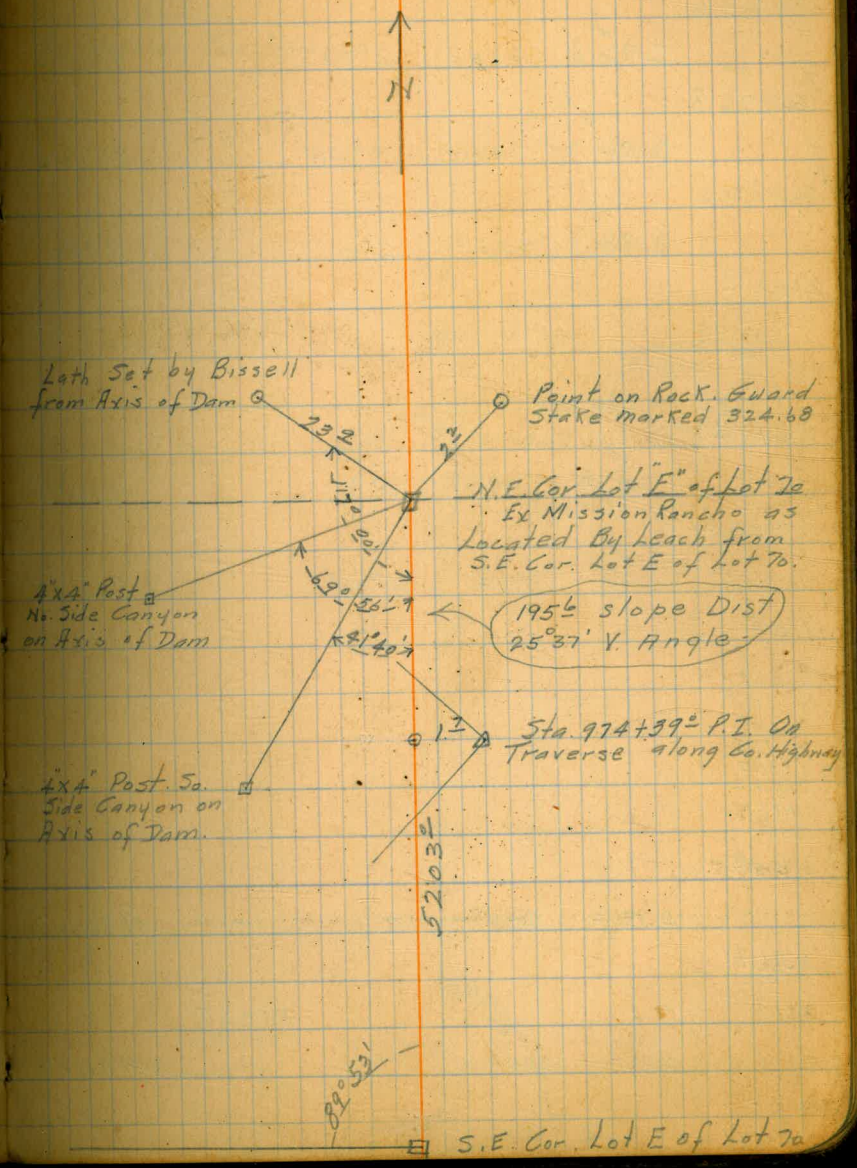
N.E. Cor Bruce Warings Property (Hub)

East Line Lot "E." Lot 7a.

Apr. 21.

Sta.	Hor. Dist	Slope D.	V. Angle	
5206 2				
	81.1	91.9	28°07'	.88199
5125 1				
199°				
4931.3				
	116.4	129°	25°31'	.90246
4814 7				

N. 0° 07' W



North Line Bruce Waring Property

Sta	Hor. Dist	Slope Dist.	V. Angle	Cosine
3429.1				
	297.9	298 e	1°12'	99978
3123.6				
	292.8	293 L	2°31'	99904
54° 2776.8				
	294.2	298 e	9°08'	98732
2482.6				
	293.7	295 L	5°40'	.99511
2188 9				
+30°				
+20°				
+29°				
(+22 +15) Center rd A Line				
2109 9				
	281 E	298 e	19°07'	94485
1828 4				
	114 e	119 e	15°05'	96555
1713 5				
109 L				
75°				
175°				
95 e				
130 e				
165 e				
145°				
185°				
634 4				
	238 3	239 e	4°16'	99723
396 1				
49 e				
297 L				
	297 1	298 e	4°32'	99687
			West	
0+00				
Apr. 21				

3926.67

245 Slope 76

4°32'

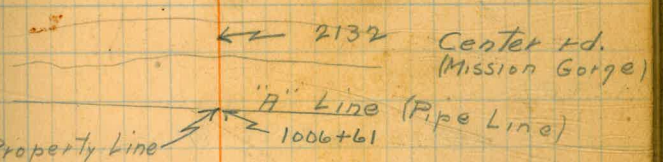
974+62

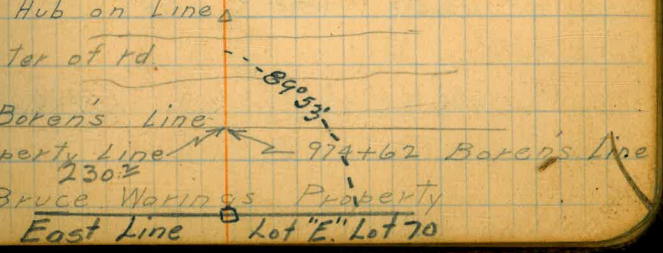
Lot 61 | Lot 60

4°

Lot E. of Lot 70.

N.E. Cor Lot 61.
Ex Mission Rancho





So. Line Lot "E" Lot 70

April 19.

Leach T
Duermit
Webb
Clavert

Worm and Cloudy

77

Sta.	Hor. Dist.	Slope Dist.	V. Angle	Bear.	Cos.
16 41 47					
-45					
1686 47					
	291.63	298	11°52'		.97863
1394.84					
24 19					
13 51.84					
					Pt. on South Line Lot 70 3x4 Hub
28					
1323.84					
	288.72	298	14°20'		.96887
1035.12					
1.12					
P.O.T.					
10+33 22					W. Hub of Straddler Hubs across "A" Line
					Hub is 1033.22 from ! South East
144.31	144.31	149	14°25'		.96851
8+90 81					Corner Bruce Woring's property -
298 29					
5+63 81					
	265.28	298	27°06'		.89021
P.O.T.					
2+98 53					
	62.53	64.0	12°18'		.97705
P.O.T.					
2+36					
9					
2	236			West.	
89					
114					
0+00					S.E. Cor. Lot E of Lot 70
					Pt. on South Line Lot 70 3x4 Hub.

So. Line Lot "E" Lot 70.

Sta.	Hor. Dist	Slope Dist	V. Angle	Mag.	Cos.
2337 78					
151					
2186 78					
	297 89	298	1°33'		.99963
1888 89					
	87. 34	88 2	10°45'		.98245
1801 55					
	160 08	169 7	19° 23'		.94332
1641. 47				West	

S.E. Cor. Lot 61.
Pt. on South Line lot 70 1½ x 1½ Hub

East Line Lot "E" Lot 70.

Continued on Page - 74

Sta.	Hor. Dist.	Slope Dist.	V. Angle	Mag.	Cos.
117.75					
2295 3					
	295 6	298 0	7°12'		.99211
1999 1					
	182 2	186 0	11°33'		.97975
1817 5					
-40 0					
1857. 5					
298					
30					
298					
12+31 5					
	144 5	149	14°11'		.96952
10+87 0					
33 5					
10+53 5					
	218 8	219 0	2°24'		.99912
8+34 1					
April 20					
59					
7+75 72					
	218 66	219 0	3°11'		.99846
5+57 06					
	78 05	81 2	16°00'		.96126
4+79 01					
	297 21	298 0	4°11'		.99739
1+81 80					
78					
1+74				N. 0°07'W	
174 0					
0+00					

Leach
Overmit
Webb
Clavert

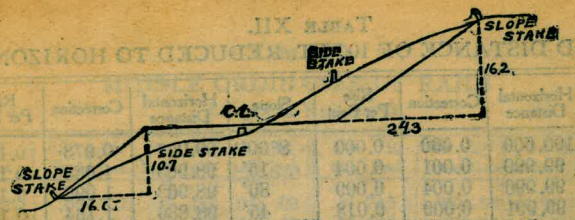
Worm

April 20

79

S.E. Cor. Lot E of Lot 70.
Pt on South Line Lot 70 3x4 Hub.

IMPROVED TABLES
AND
INFORMATION



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.

J. 3° 38' W
24 41
28 14
27 40
S 0 34 W

Δ = 73°07' 36° 33.5

D = 56°

R = 102.31

T = 75.87

L = 130.57

805+80.70
75.87
805+04.83 B.C.
130.57
806+35.40 E.C

.74153
1023.1
74153
222459
148306
74153
75.86593 43

130.56
56) 73.11667
56
171
168
316
280
366
336
307

37° 49.3' Lat

Sta. 901+41² to Sta. 902+63²

S. 2° 38' W

15° 9' 45"

4° 36' 30"

9.7
11.2
7.4

3)28 3/9.4
27
1 3

8.7
7.8
7.0

3)23 5/78
21
25

4.80
.72
4.08

742
739+50

6)524/87
48
44

3)29 5/98
27
25

3)32.9/6
21
119

8)434
72
14

3)19/73

1 - 15
2 - 30
3 - 45
5 - 00
6 - 15
7 - 30
8 - 45
9 - .4