

W
548-A

"A"

MICROFILMED

"A"

YUV

100

8.3
4.8
3.1

27.5
3.50

12.9

10.9

15.7

11

27.5

3.50

7.22 5.9

3.08

(46-45)

23-22-30

177
35

Index

| | |
|---|----------|
| Survey of Lot 5 & 6 Block 122 (Whitehead) | 1 |
| Levels on Frank Donner's Property | 2 |
| Letter to F.A. Rhodes re L.M. L.G. & S.V. Tr. Dist | 71 |
| L.M. L.G. & S.V. Tr. Dist. Acreage | 72 |
| - 7% Line from Oat Hill to Foster from 35' cut at Oat Hill. | 9 to 13 |
| - 7% Oat Hill to Foster - 10' cut | 14 to 17 |
| M line revision from M ⁸ to M ¹⁵ | 18 - 21 |
| M ² line from M ⁸ to bridge site. | 22 |
| P. line - beginning near Foster transferred to book 548 | 23 - 27 |
| Stadia road loc. thru clearing from top of Wildcat Canyon north | 28 - 34 |
| Stadia loc. of existing road from top of Wildcat Canyon to WPA. improv. | 36 - 37 |
| Stadia road loc. from church in Barona Res. south to junct. with clearing line | 38 - 45 |
| Stadia road loc. from top Wildcat canyon south to junct. with WPA. improvement | 46 - 52 |

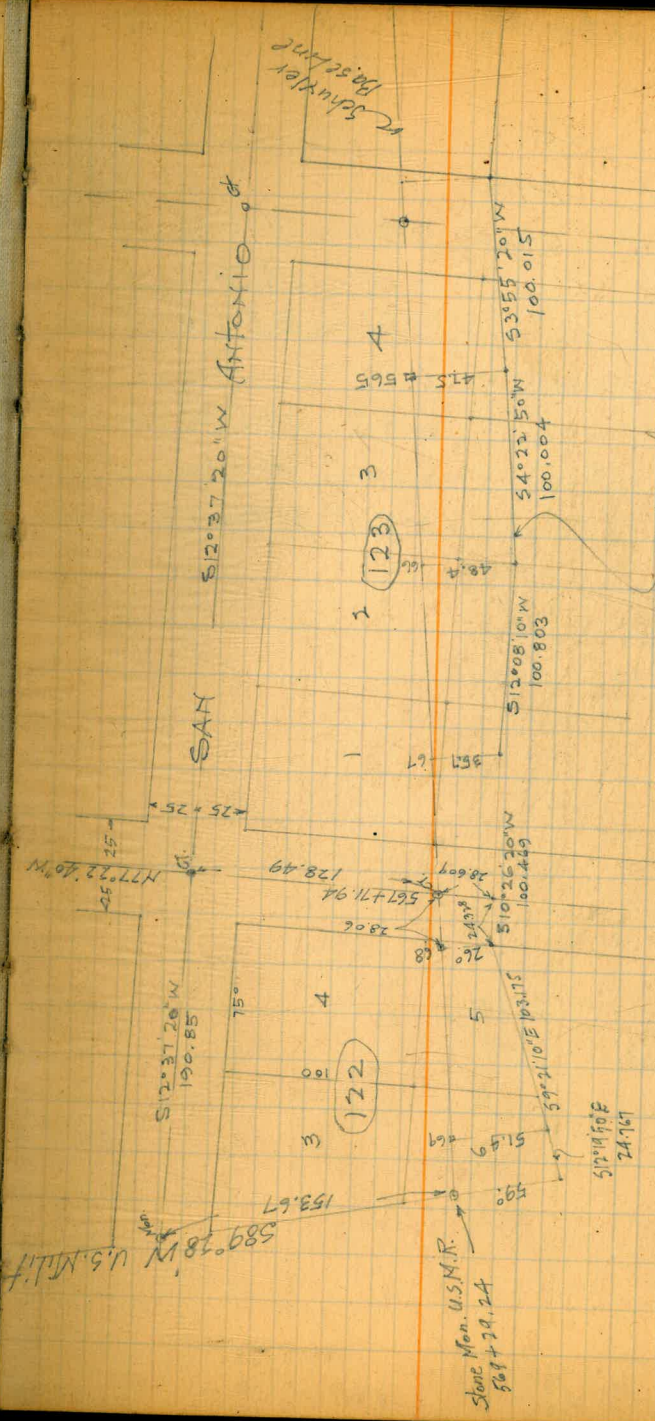
Let 576 block 1W (Whitehead)
 Surveyed March 1924 by J.M.X.

Res. Reservation Line 2

| | | | | | |
|-----------------|-------|-------|-------|-------|-------|
| | N | S | E | M | |
| | 27.96 | 27.96 | 2.40 | 25.91 | |
| N 89° 06' 10" W | 26.0 | 2.22 | | | |
| N 45° 35' 06" E | 28.06 | | | | |
| S 77° 02' 40" E | 28.61 | 6.25 | 27.92 | | |
| S 10° 26' 20" W | 24.33 | 23.93 | 30.32 | 4.41 | 30.32 |
| | | 30.18 | 30.32 | | |

Lawrence St.

Kellogg St.



Line of Mean High Tide

A of 567+71.94 = 92.011 on actual M.H.T. Line with Kellogg St
 A = 568 = 15 140 47 47"
 A = 569 = 15 20 58 40"

Stone Mon. U.S.M.R.
 589+79.24

SAN

Antonio St.

Mr. Schuyler
 Br. 354

Levels on Frank Donners
Tr. reports

| + | H.I. | - | |
|------|--------|------|-------------------|
| 1.60 | 101.60 | | 282.379 100.00 |
| | | 2.57 | 99.03 |
| | | 4.19 | 97.41 |
| | | 5.81 | 95.79 |
| | | 6.35 | 95.37 |
| | | 6.35 | 95.25 |
| | | 8.00 | 94.59 |
| | | 1.97 | 93.60 |
| | | | 99.63 |

Nov. 9 - 1925 -

2

13.16. Brass Plug S. E. Cor. Texas & Myrtle

Curb Ret. S.W. Cor Texas & Myrtle

Finish floor

Top of Soil pipe bottom of soil pipe outside
of building 5" or 42" lower

Top of 8" sewer Int Texas & Myrtle .66

Top of Manhole E Louisiana & Myrtle

Top of Manhole E Texas & Myrtle

95.25
.66
94.59

9 3/8

100
.25
99.75
2.50
97.25
31.00

95.37
94.59
.78
.40
118

110
319 - 400

| | |
|--------------------|-------|
| Myrtle & Texas | 277.0 |
| Texas & St. Paul | 275.0 |
| Myrtle & Louisiana | 271.0 |

Photo

Sept 21 1937

Barrett Dam

1 9.20 AM
 Photo Taken at entrance to City Property at Barrett Dam - Photo taken 60' from Gate Looking South easterly - Showing Warning Signs -

2 9.40
 On Barrett Road facing Easterly On Curve West of Accident showing ^{straight way} Roadway with No curves etc

3 10 AM
 Camera Facing East 50' W of where car left Bank. McKinney 6' N of Car.

4 10.10 AM
 Camera Facing W 50 E of where car left Bank McKinney 6' N of Car

5
 Camera Facing W 50' E of where car left Bank showing over top of straight Rd
 Next Page



Car width Tread 4' 8 1/2"
 Bumper " 5' 10"

Sept. 21, 1937

J.H. McKinney

J.W. Williams

R.A. Schwartz

To Barrett
 East

| | | |
|-----------------|------|-----------|
| Req. of Curve | 4+05 | 6' 6" |
| | 3+65 | 7.5 x 6 |
| | 3+25 | 4' x 8 |
| | 3+00 | 4 x 9 |
| | 2+93 | 5' x 8 |
| | 2+50 | 10.5 x 3 |
| | 2+35 | 10' 2' |
| | 2+00 | 7 x 5 |
| | +50 | 4.5 x 7.5 |
| | 1+00 | 5 x 8 |
| | +50 | 5 x 8 |
| | 0+00 | 4 x 11 |
| Req. of Tangent | | 15' wide |

at Sta. 2+00 Left wheel track 12' from bank
 at Sta 2+93 left wheel left road 13' from bank
 at Sta 3+00 left wheel 1' off of roadway

Turned over
 at Sta. 3+25 Car completely off of road right wheel 13' from Right bank car
 Slope from Road to Barrett Reservoir where Car left Road 11' down to 15' out
 or 73.3% slope

11:00 P.M.

#6

Camera 50' West of Point

Where Car first Left the Bank

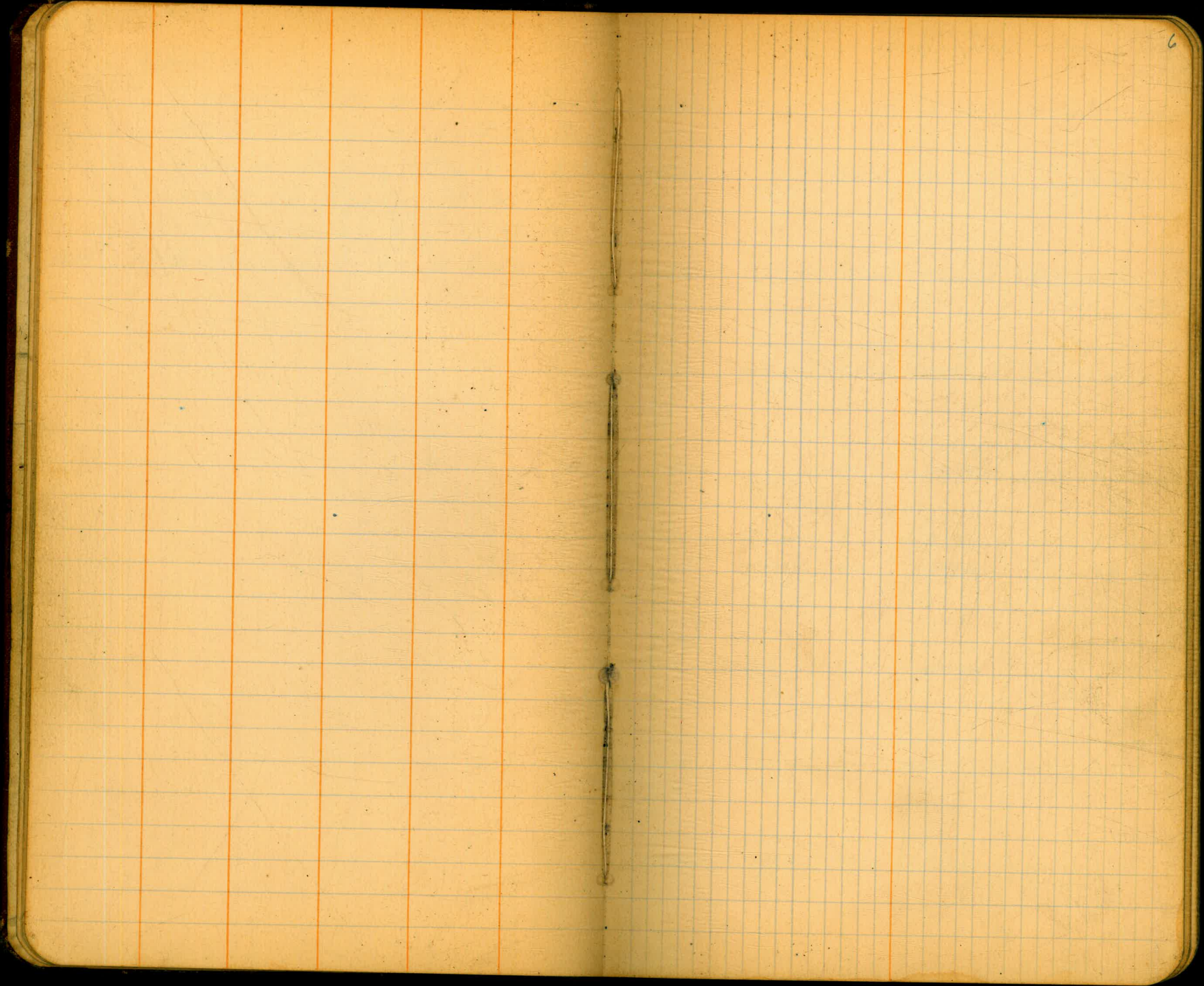
Camera Facing East - Car in

Center of Road showing

4:3' clearance ^{2 1/2' Tread} on N Side

AND 4:8' clearance ^{2' of Tread} on S Side

1



7% Line South from out saddle - 35' cut.

Osborne
Isbell
Leakey
Brooks

Sept. 13-1938
Cloudy - Hot

7

| Sta. | Cor. Dist. | Hor. L | Vert. L | H.I. | Rod | Mag. Ber. | | | |
|--------|----------------|----------------------|---------|--------------|-----|--------------|----------------------------------|-------------------|--------------|
| 9 to 8 | 168.9 (170) | P.O.T. | -6°20' | 6.7 796.9 | 6.7 | S. 31° W. | 200' +45% | -30% 150' | sta. 8 |
| 5 to 7 | 588.1 (590) | 0°30' 0°14'30" L. | -4°01' | 5.1 845.3 | 5.1 | S. 5° W. | 200' +30% | -16% 200' | sta. 7 |
| 7 to 6 | 178.0 (177) | P.O.T. | -0°40' | 5.1 843.3 | 5.1 | | Wash at 90° to line 200' +45% | -29% 100' | sta. 6 |
| 3 to 5 | 369.2 (370) | 55°05' 27°32' L. | -1°01' | 5.1 886.6 | 5.1 | S. 5°30' W. | 100' +38% | -38% 150' | sta. 5 |
| 3 to 4 | 179.4 (185) | P.O.T. | -11°05' | 5.1 877.7 | 5.1 | | Wash at 90° to line 200' +27% | -39% 200' | sta. 4 |
| | | | | | | | 200' +23% | -20% 100' | sta. 3 |
| 2 to 3 | 142.3 (142) | 50°45' 25°22' L. | -7°01' | 5.1 912.5 | 5.1 | S. 35° W. | +20% 100' | +25% 75' | sta. 2 |
| 1 to 2 | 673.6 (680) | 45°58' 22°59' R. | -6°03' | 5.1 922.5 | 5.1 | S. 57°30' W. | Grade 200' +20% | 30' -4% 300' +14% | = sta. 1 |
| 0 to 1 | 426.0 (429) | 85°54' 12°57' R. | -5°30' | 5.3 993.5 | 5.3 | S. 34°30' W. | C-24.0 100' +30% 75' +5% | +7% 150' | = For sta. 0 |

Backsite on N-4

N-4

| Sta. | Cor. Dist. | Hor. L | Vert. L | H.I. | Kod. | Mag. Ber. | | | | |
|----------|---------------------|-------------------------------|----------|--------------|------|---------------|-------------------------------|--------------------|--|---------|
| 16 to 17 | ✓ 136.3 (136) | 45° 27' 30" 22° 43' L. | -4° 01' | 4.8 693.6 | 4.8 | S. 28° 30' E | 125' +40% | -31% 200' | | sta. 17 |
| 15 to 16 | ✓ 100.5 (100) | 52° 08' 26° 04' L. | -4° 01' | 5.0 703.2 | 5.0 | S. 6° E. | 100' +8% 50' +23% 100' +41% | -34% 100' | | sta. 16 |
| 13 to 15 | ✓ 677.7 (680) | 13° 19' 6° 39' L. | -4° 01' | 5.0 710.2 | 5.0 | S. 20° W. | 100' +7% 75' +44% | -44% 75' -7% 50' | | sta. 15 |
| 13 to 14 | ✓ 239.8 (240) | 25° 20' 12° 40' 30" L. | -4° 01' | 5.0 741.0 | 5.0 | S. 14° W. | 200' +36% | -35% 200' | | sta. 14 |
| 12 to 13 | ✓ 104.5 (104) | 15° 24' 7° 41' L. | -4° 01' | 5.0 757.8 | 5.0 | S. 27° W. | 100' +28% | -35% 150' | | sta. 13 |
| 10 to 12 | ✓ 463.7 (465) | 32° 22' 16° 10' 30" R. | -4° 01' | 5.2 765.1 | 5.2 | S. 35° W. | 100' +21% | -31% 200' | | sta. 12 |
| 10 to 11 | 145.8 (133) | P.O.T. | -11° 55' | 5.2 | 9.2 | | Wash 90° to line 100' +49% | -27% 300' | | sta. 11 |
| 9 to 10 | ✓ 281.6 (282) | 27° 16' 13° 37' 30" L. | -4° 01' | 6.7 797.7 | 6.7 | S. 17° 30' W. | 200' +45% | -39% 100' | | sta. 10 |
| 7 to 9 | ✓ 396.1 (397) | 52° 51' 30" 26° 25' 30" R. | -4° 01' | 5.1 817.5 | 3.1 | S. 31° W. | 200' +31% | -50% 100' 20% 100' | | sta. 9 |

Sept. 14-1938

Hill.
Osborne
Isbell
Leekey
Brooks

7% Line South from oar Saddle

10

| Sta. | Cor. Dist. | Hor. L | Vert. L | H.I. | Red | Mag. Ber. | |
|----------|-----------------|---------------------------|---------|--------------|-------|--------------|--|
| 23 to 24 | 237.4 (2.40) | P.O.T. | -7° 07' | 5.1 602.9 | | | draw N.37°30'E, sta 24 +9% 200' -8% 200' |
| 23 to 25 | 537.8 (5.37) | 95°00'30" 47°30'30" R. | +1° 02' | 5.1 672.2 | C-15' | S. 45° E. | +17% 150' -9% 150' sta. 25 |
| 20 to 22 | 287.2 (2.60) | P.O.T. | -9° 20' | 5.0 617.8 | | | |
| 20 to 23 | 384.1 (3.85) | 46°04'30" 23°02'30" R. | -4° 01' | 5.0 632.7 | | N. 87°30' E. | +31 200' -16% 200' sta. 23 |
| 20 to 21 | 284.6 (2.85) | 6°52'30" L. | -4° 01' | 5.0 639.6 | | | +14% 100' + 90' to draw +17% 200' +30% 75' 1/2 Draw: +15% 150' sta. 21 |
| 19 to 20 | 85.6 (1.85) | 52°16'30" 26°08'30" L. | -4° 01' | 5.1 657.6 | | N. 69°30' E. | Slopes 90° to sta. 21 +25% 125' +33% 60' -23% 150' sta. 20 |
| 18 to 19 | 129.9 (1.29) | 93°42' 46°51' L. | -4° 01' | 5.0 665.6 | | S. 83° E. | Slopes 90° to forward tangent 125' +17% 50' +41% 28% -75' -18% 100' sta. 19 |
| 17 to 18 | 269.7 (2.70) | 27°39' 13°49'30" L. | -4° 01' | 5.1 674.7 | | | Slopes on sta. 18 are 90° to Forward tangent S. 42° 30' E. 100' 36% 100' 17% 100' 29% -28% 200' sta. 18 |

| Sta. | Cor. Dist. | Hor. L | Vert. L | H.I. | Rod. | Mag. Ber. | |
|-------------|----------------|-----------|--------------|--------|--------------|--------------|---|
| 32 to 34-52 | 365.7 (365) | 7°29'30" | 3°47' L. | +1°32' | 5.1 505.7 | S. 71°30' E. | +5% 200' -7% 150' sta. 32 |
| 31 to 32 | 447.9 (448) | 26°11' | 13°05'30" L. | -2°52' | 5.0 495.9 | S. 68° E. | +29% 75' +37% 75' -31% 75' -2% 100' sta. 31 |
| 30 to 31 | 809.7 (810) | 24°09' | 12°04'30" L. | -2°52' | 5.2 518.3 | S. 53°30' E. | |
| 29 to 30 | 157.6 (157) | 41°05'30" | 20°30' L. | -2°52' | 5.1 538.5 | S. 43°30' E. | 150' +37% -37% 150' sta. 30 |
| 28 to 29 | 144.6 (144) | 34°08' | 17°04' L. | -2°52' | 5.2 566.4 | S. 23° E. | 150' +33% -33% 125' sta. 29 |
| 27 to 28 | 164.6 (164) | 32°30'30" | 16°14'30" L. | -2°52' | 5.1 573.6 | S. 6° E. | +34% 250' -26% 250' sta. 28 |
| 26 to 27 | 330.2 (330) | 47°21'30" | 23°41' R. | -2°52' | 5.1 581.8 | S. 11° W. | +35% 200' -28% 200' sta. 27 |
| 25 to 26 | 579.6 (580) | 66°03' | 33°02' R. | -2°52' | 5.1 598.2 | S. 12° E. | +32% 150' -25% 100' sta. 26 |

| Sta. | Sta. | Cor. Dist. | Hor. L | Vert. L | H. I. | Rod | Mag. Corr. | ϕ |
|-------|----------|----------------|------------------------------|---------|-------|------|-------------------------|---------------------------------|
| 32 to | | | | | | | | |
| 31 to | | | | | | | | |
| 30 to | | | | | | | | |
| 29 to | | | | | | | | |
| 28 to | | | | | | | | |
| 27 to | 34 to 43 | (655) | | +4.11 | | | | |
| 26 to | 34 to 53 | | 15° 39' 30" 7° 19' 30" L. | | 5.3 | | S. 81° 30' E. +18% 150' | -16% 150' sta. 34 |
| 25 to | 32 to 33 | 105.6 (104) | P.O.T. | -6.44 | 5.1 | 12.7 | 0% 150' | 6% 150' Draw N 5° W. sta. 33 |

Line From pavement North to
Line From out saddle

Sta. Cor. Dist. Hor. L Vert. L H.I

64 to B (990) +0°13' 4.8

64 to A (395) 30°43'30" R. +1°46' 4.8

Sept. 14-1938

Hill
Osborne
Isbell
Leakey
Braks

Mag. Bar.

13

- 7% From a 10' Cut in Oat Saddle

| Sta | Cor Dist | Horz Ang | Vert Ang | H. I | Rod |
|--------|----------------|---|----------|------|------|
| 7 to 8 | 172.0 (180) | P.O.T. | -12° 10' | 5.0 | 12.0 |
| 5 to 7 | 538.4 (540) | 1° 38' 30" 0° 49' Lt | -4° 01' | 5.0 | 50 |
| 5 to 6 | 204.4 (205) | P.O.T. | -10° 21' | 5.0 | 14.0 |
| 4 to 5 | 154.2 (154) | 12° 40' 6° 20' Lt | -4° 01' | 5.1 | 5.1 |
| 2 to 4 | 411.0 (413) | 55° 54' 30" 27° 56' 30" Lt P.O.T. | -4° 01' | 4.9 | 4.9 |
| 2 to 3 | 231.1 (235) | 27° 56' 30" P.O.T. | -8° 21' | 4.9 | 12.9 |
| 1 to 2 | 687.6 (690) | 10° 21' 5° 11' Lt | -4° 01' | 5.1 | 5.1 |
| 0 to 1 | +14.0 (415) | 107° 43' 53° 52' Rt. | -4° 01' | 5.1 | 15.1 |

Backsight N-4

O To N 4 S 6° 54' E

Hill Osborne
Isbell
Lecky
Brooks
Mag Ber

9-

Hot + cloudy.

14

Note - All side shots split of Ang unless recorded otherwise.

Note - Mag Bearing Not Corrected.

Note - Percent over Horz Dist

| | | | | | |
|--------|-------------|-------------|-------------|-------------|-------------|
| -37.0 | Wash | +31% 100 | -31% 125 | | |
| -37.7 | 5 4° 30' E | +43% 100 | +27% 60 | -20% 30 | -35% 100 |
| -45.4 | Wash. | +31% 150 | -31% 150 | | |
| -10.83 | 5 9' E | +30% 50 | +10% 80 | -34% 20 | -45% 100 |
| -28.8 | 5 2° E | +23% 60 | +30% 40 | -30% 25 | -40% 75 |
| -41.9 | Wash | +27% 150 | -23% 125 | | |
| -48.2 | 5 25° W | +27% 100 | +17% 60 | -24% 125 | |
| -39.0 | 5 30° 30' W | +14% 100 | -10% 40 | +14% 200 | |

| Sta | Cor Dist | Horz Ang | Vert Ang | H.I. | Red |
|----------|----------------|---------------------------|----------|------|-----|
| 15 to 16 | 90.4 (90) | 54° 08' 27° 04' 30" Lt | -4° 01' | 5.1 | 5.1 |
| 14 to 15 | 155.1 (155) | 7° 33' 3° 46' 30" Lt | -4° 01' | 4.9 | 4.9 |
| 13 to 14 | 428.9 (430) | 1° 41' 0° 50' Lt | -4° 01' | 4.9 | 4.9 |
| 11 to 13 | 632.9 (635) | 8° 41' 4° 21' 30" Rt | -4° 01' | 4.9 | 4.9 |
| 11 to 12 | 200.0 (200) | 10° 45' Lt | -4° 01' | 4.9 | 4.9 |
| 10 to 11 | 215.0 (215) | 28° 01' 14° 00' 30" Lt | -4° 01' | 5.0 | 5.0 |
| 7 to 10 | 339.3 (340) | 61° 04' 30° 32' Rt | -4° 01' | 5.0 | 5.0 |
| 7 to 9 | 145.3 (146) | 4° 00' Lt | -4° 01' | 5.0 | 5.0 |

Mag Ber

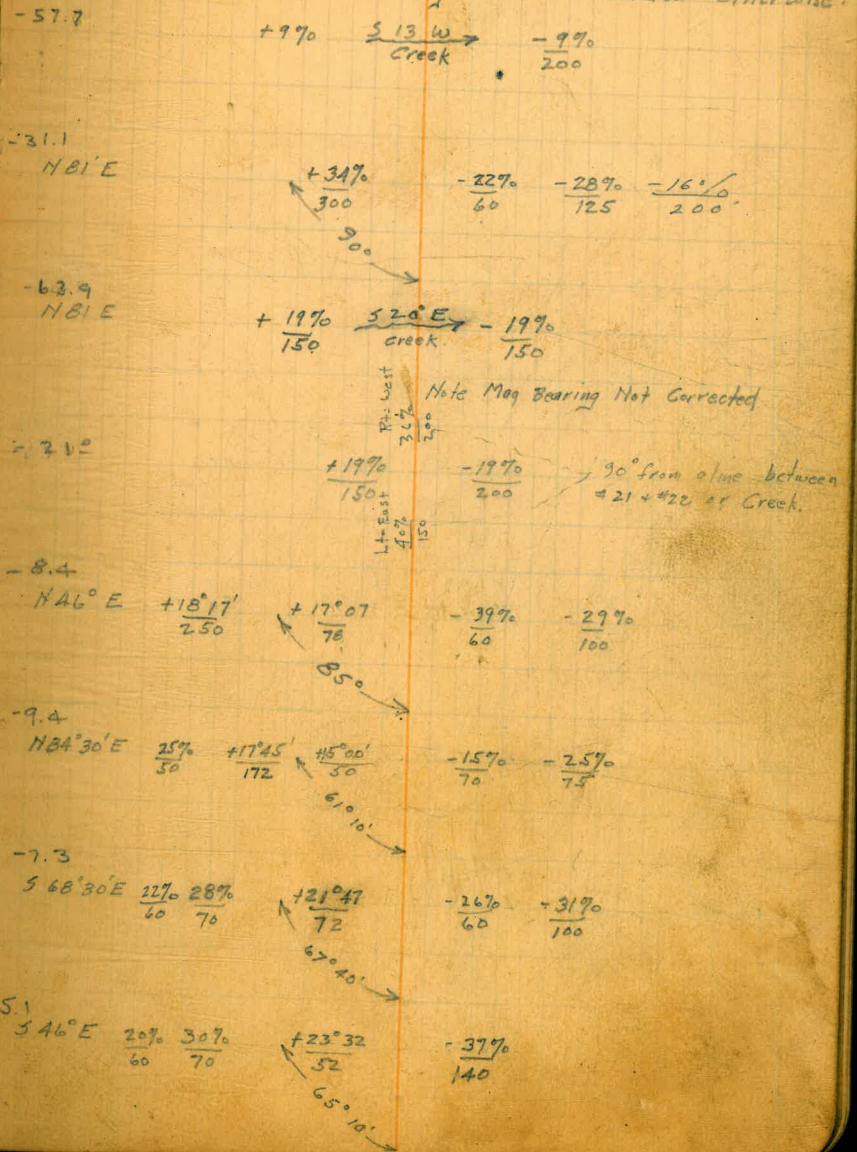
Note Vert Ang over Stadia dist - Percent over Horz Dist.

All side shots split of Ang unless recorded otherwise

| | | | | | |
|-------|-------------|---------------------|------------------------|------------------------|---|
| -6.3 | 3 19° 30' E | $\frac{20\%}{50}$ | $\frac{28\%}{50}$ | $\frac{23' 00''}{53}$ | $-\frac{4.0\%}{150}$ |
| -10.8 | 5 8° W | $\frac{28\%}{50}$ | $\frac{20' 41''}{73}$ | $+\frac{23' 51''}{21}$ | $-\frac{6.0\%}{25}$ $-\frac{43\%}{100}$ |
| -30.1 | 5 11° W | $+\frac{32\%}{60}$ | $+\frac{24' 53''}{53}$ | | $-\frac{6.0\%}{30}$ $-\frac{42\%}{100}$ |
| -44.4 | 5 12° W | | $+\frac{35\%}{100}$ | | $-\frac{31\%}{30}$ $-\frac{25\%}{50}$ |
| -14.0 | Wash. | | $+\frac{38\%}{150}$ | | $-\frac{38\%}{150}$ |
| -15.0 | 5 7° 30' W | $+\frac{35\%}{150}$ | $+\frac{42\%}{60}$ | | $-\frac{42\%}{50}$ $-\frac{45\%}{150}$ |
| -23.7 | 5 22° W | $+\frac{25\%}{100}$ | $+\frac{38\%}{20}$ | | $-\frac{38\%}{200}$ |
| -10.1 | Wash. | $+\frac{25\%}{100}$ | $+\frac{34\%}{30}$ | | $-\frac{31\%}{100}$ |

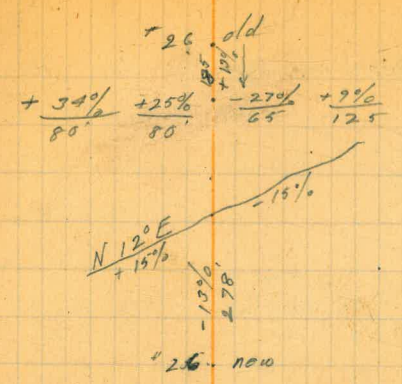
| Sta | Cor Dist | Horz Ang | Vert Ang | H.I. | Rod |
|----------|----------------|---------------------------|----------|------|-----|
| 23 to 24 | 273.0 285 | P.O.T | -11° 56 | 4.9 | 8.9 |
| 20 to 23 | 443.8 (445) | 68° 16 30 34° 08 Pt | -4.01 | 5.0 | 5.0 |
| 20 to 22 | 264.7 (265) | P.O.T | -14° 23 | 5.0 | 5.0 |
| 20 to 21 | 299.4 (300) | 17° 20' Lt | -4° 01' | 5.0 | 5.0 |
| 19 to 20 | 120.3 (120) | 78° 50' 39° 24' Lt | -4° 01' | 5.1 | 5.1 |
| 18 to 19 | 135.2 (135) | 51° 55' 25° 57' 30" Lt | -4° 01' | 5.1 | 5.1 |
| 17 to 18 | 105.4 (105) | 43° 43' 21° 51' Lt | -4° 01' | 5.0 | 5.0 |
| 16 to 17 | 73.5 (73) | 53° 30' 26° 46' Lt | -4° 01' | 5.2 | 5.2 |

Mag Ber.
 Note Vert Ang over Stadia Dist Percent over Horz Dist
 All side shots split of Ang unless recorded otherwise.

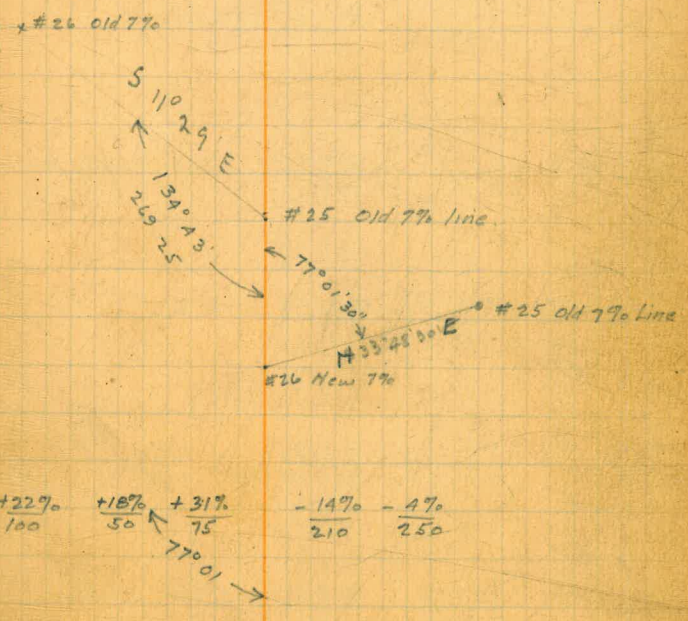


Sta Cor Dist Horz Ang Vert Ang H.I Rod

| Sta | Cor Dist | Horz Ang | Vert Ang | H.I | Rod |
|--------------------|--------------------|----------------------------|-------------------------|-----|------|
| old 7% 25 to 26 | old 7% 25 to 26 | Back sight #26 New 7% Line | | | |
| New 7% 26 to 25 | 138.0 (142) | 151° 03' | 77° 01' 30" Rt - 9° 47' | 5.0 | 5.0 |
| New 7% 26 to 26 | 685.5 (690) | 40° 04' Rt | -5° 12' | 5.0 | 11.0 |
| 23 to 26 | 590.8 (590) | 81° 24' 40° 42' Rt | -1° 12' | 4.9 | 4.9 |
| 23 to 25 | 515.5 (515) | P.O.T | -1° 55' | 4.9 | 4.9 |



278
175
190
643

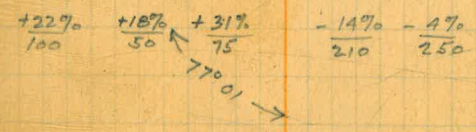


-23.7
518.6

-62.3
519.8

-12.4
558° 30' E

-17.2



M Line revision from M'8 to M'15

| Sta | Cor Dist | Horz Ang | Vert Ang | Hi | Red & Elev. |
|-----------------------|----------------------------|-----------------------|----------|-----|---------------|
| M'14 to M'15 | 124.7 (126) | 39° 41' Lt. P.O.T | -7° 50' | 5.1 | -17.0 5.1 |
| M'12: M'11 to M'14 | 575.9 (575) | 88° 50' 44° 25' Lt | -1° 10' | 4.8 | -11.8 4.8 |
| M'14 to M'13 | 119.4 (120) | P.O.T. | -6 35' | 5.1 | -13.7 5.1 |
| M'11 to M'12 | 154.2 (154) | 44° 25' Lt | +4° 06' | 5.0 | +11.05 5.0 |
| M'11 to M'8 | 390.8 (395) | Δ P4 to M'8 | +6° 34' | 5.0 | +44.7 5.0 |
| M'11 to M'10 | 54.0 (55) | P.O.T | -11° 08' | 5.0 | -10.6 5.0 |
| M'8 to M'9 | 184.1 (185) | P.O.T | -5° 59' | 5.2 | -19.3 5.2 |
| M'8 | Set on M'8 Backsighted M'3 | | | | |

Hill Osborne 9-29-38
Isbell
Leekey
Brooks
Mag Ber

Note - Mag Bearings Not Corrected

Note - Vert Ang over Stadia dist Percent over Horz Dist

$$\begin{array}{ccccccc}
 -8\% & \leftarrow & -18\% & \leftarrow & 570^\circ E & +18\% & +24\% \\
 100 & & 75 & & & 100 & 100 \\
 & & \swarrow & & & & \\
 & & 545^\circ E & & & &
 \end{array}$$

S 49° 30' W

$$\begin{array}{cc}
 -18\% & -10\% \\
 100 & 60
 \end{array}$$

$$\begin{array}{cc}
 +14\% & +24\% \\
 70 & 100
 \end{array}$$

90°

$$\begin{array}{cc}
 -15\% & +15\% \\
 100 & 100
 \end{array}$$

S 49° 30' W

$$\begin{array}{cc}
 -25\% & -31\% \\
 100 & 30
 \end{array}$$

$$\begin{array}{cc}
 +34\% & \\
 150 &
 \end{array}$$

S 86° 30' E

44° 25'

$$\begin{array}{cc}
 +13\% & +38\% \\
 100 & 125
 \end{array}$$

S 86° 30' E

$$\begin{array}{ccc}
 -9\% & \leftarrow 53\% W & +9\% \\
 150 & Creek & 150
 \end{array}$$

N 86° 30' W

$$\begin{array}{cc}
 -12\% & -22\% \\
 65 & 125
 \end{array}$$

$$\begin{array}{cc}
 -20\% & \\
 30 &
 \end{array}$$

$$\begin{array}{cc}
 +18\% & \\
 40 &
 \end{array}$$

$$\begin{array}{cc}
 +21\% & \\
 75 &
 \end{array}$$

$$\begin{array}{cc}
 -22\% & -30\% \\
 75 & 70
 \end{array}$$

$$\begin{array}{cc}
 +23\% & \\
 50 &
 \end{array}$$

$$\begin{array}{cc}
 +15\% & \\
 40 &
 \end{array}$$

$$\begin{array}{cc}
 +29\% & \\
 60 &
 \end{array}$$

| Sta | Cor Dist | Horz Dist | Vert Ang | H.I | Red | Mag Bcr |
|--------------|----------------|---------------------------------|----------|-----|-------------|---|
| M'22 + M'23 | 185.9 185 | 55° 00' Rt | -1° 10' | 4.9 | -3.5 4.9 | -25% 200 582° E ← Wash. +30% 150 |
| M'21 to M'22 | 159.9 (159) | 26° 09' 13° 04' Rt | -1° 10' | 4.8 | -3.3 4.8 | 511° 30' E -25% 175 + 32% 80 + 16% 80 |
| M'19 to M'21 | 342.9 (343) | 123° 52' 30" 61° 56' Lt | -1° 10' | 5.1 | -7.0 5.1 | 525° E -41% 150 + 32% 170 + 18% 70 |
| M'19 to M'20 | 178.9 (178) | 12° 15' Lt | -1° 10' | 5.1 | -3.6 5.1 | +42% 25 -42% 20 -20% 90 +20% 75 +46% 100 |
| M'17 to M'19 | 448.8 (445) | 54° 08' 27° 04' Rt | -1° 10' | 5.1 | -9.1 5.1 | 537° W -15% 150 + 20% 100 + 14% 100 |
| M'17 to M'18 | 283.9 (283) | 35° 02' Rt | -1° 10' | 5.1 | -5.8 5.1 | -30% To Bottom Wash 5 +16% 150 |
| M'14 to M'17 | 394.8 (394) | 71° 54' 2" 39° 47' Lt 37° | -1° 10' | 5.1 | -8.0 5.1 | 510° W - 16% 150 +16% 150 |
| M'14 to M'16 | 244.9 244 | 39° 47' Lt P.O.T | -0° 51' | 5.1 | -3.6 5.1 | -16% 120 - 22% 60 +18% 150 |

Note - Side shot are split of Ang unless recorded otherwise

| Sta | Cor Dist | Horz Ang | Vert Ang | H.I | Rod | Mag Bar |
|--------------|----------------|----------------------------|----------|-----|--------------|--|
| M'29 to M'31 | 368.8 (368) | 6° 51' RT | -1° 10' | 5.0 | -7.5 5.0 | -37% 150 ← N 62° E Wash +52% 75 |
| M'29 to M'30 | 210.9 (210) | 29° 02' RT | -1° 10' | 5.0 | -4.3 5.0 | -37% 150 ← 55° E Wash +47% 100 |
| M'28 to M'29 | 354.9 (334) | 100° 03' 50° 01' 30" RT | -1° 10' | 4.9 | -6.8 4.9 | 5 29° W -51% 150 +48% 125 90° |
| M'27 to M'28 | 380.8 (380) | 17° 08' 8° 34' RT | -1° 10' | 4.9 | -7.7 4.1 | 5 23° E -36% 150 -23% 50 +26% 150 |
| M'22 to M'27 | 605.7 (605) | 4° 19' 20° 09' LT | -1° 10' | 4.9 | -12.3 4.9 | 5 31° 30' E -31% 150 +33% 65 +23% 75 30° |
| M'22 to M'26 | 497.8 (497) | 4° 35' LT | -1° 10' | 4.9 | -10.1 4.9 | To Bottom Wash -49% 110 +49% 50 +90% 40 |
| M'28 to M'25 | 520.8 (560) | 20° 14' RT | -1° 10' | 4.9 | -11.4 4.9 | -25% 150 ← Wash N 43° E +45% 150 |
| M'22 to M'24 | 253.9 (253) | 20° 37' RT | -1° 10' | 4.9 | -5.1 4.9 | -34% 200 ← Hog Back N 80° E +34% 150 |

Old line. Old Line
M 45 to M 47? 40° 28'
20 14' Rt

M'29 to M'35 = M 45 704.7 61° 47'
(705) 30° 53' 30" Lt + 2° 39' 5.0 + 26.6
11.0

S 1° 30' E - $\frac{270}{150}$ $\frac{+770}{60}$ $\frac{+2070}{150}$

M'29 to M'34 524.7 30° 53' 30" Rt + 2° 58' 5.0 + 27.2
(525) 5.0

$\frac{+1070}{150}$ $\frac{00}{60}$ $\frac{+1670}{150}$

M'29 to M'33 349.9 30° 53' 30" Lt - 1° 10' 5.0 - 7.1
(349) 5.0

$\frac{-270}{100}$ $\frac{+4670}{50}$ $\frac{-3190}{60}$ $\frac{+2470}{150}$

M'29 to M'32 199.5 30° 53' 30" Lt - 2° 05' 5.0 - 72.8
(225) 5.0

$\frac{-1670}{150}$ ← N 62° E Wash $\frac{+1870}{165}$

M² line from M 55 to bridge site

Hill
Osborne
Isbell
Leetey
Brooks

9-29-38

22

| Sta | Cor. Dist | Horz Ang | Vert Ang | H.I | Rod | Mag Ber | | | | | |
|--------------------------------------|------------------|---------------------------|----------|-----|-----|----------------------|--|-----------------------------|-------------|------------|-------------|
| M71A to M72A | | 29° 57' 14° 58' 30" RT | | | | | Tie to Williams line in book #1541 page 62 | | | | |
| M ² 5 to M71A | 483 (248) | 31° 25' 15° 43' Lt | -3° 00' | 4.9 | 4.9 | -13.0 S 30° E | +10% 150 | -30% 125 | -10% 100 | | |
| M ² 3 to M ² 5 | 487.6 (287) | 7° 37' RT | -2° 18' | 4.9 | 4.9 | -11.5 | +34% 125 | -34% 150 | - | | |
| M ² 3 to M ² 4 | 480.8 (180) | 26° 25' Lt | -2° 18' | 4.9 | 4.9 | -7.2 | To Top of Saddle. ← +31% 125 | 5.77 W Wash → -31% 35 | -17% 200 | | |
| M ² 3 to M ² 6 | 439.4 (439) | 20° 50' 10° 25' RT | -2° 18' | 4.9 | 4.9 | -13.6 S 13° E | +40% 125 | -39% 100 | -23% 110 | | |
| M ² 2 to M ² 3 | 1019.4 (1020) | 33° 47' 16° 53' Lt | -2° 18' | 4.7 | 4.7 | -40.9 S 23° 30' E | +40% 125 | -31% 125 | | | |
| M ² 0 to M ² 2 | 618.1 (618) | 31° 08' 15° 34' RT | -2° 18' | 5.2 | 5.2 | -24.8 S 8° E | +49% 125 | -35% 125 | | | |
| M ² 0 to M ² 1 | 336.5 (335) | 8° 19' RT | -2° 18' | 5.2 | 5.2 | -13.4 | +17% 150 | -22% 150 | | | |
| M ² 0 = M 55 | Back sighted on | | | | | | -10% 125 | 20 20 | -1% 30 | -14% 60 | +13% 100 |

New
M 54

P line - Foster north

Sta. Delec.

6+50 P.O.T.

4+10 P.O.T.

1+06.2 P.O.T.

0+00 P.O.T.

Transferred to
Book #548

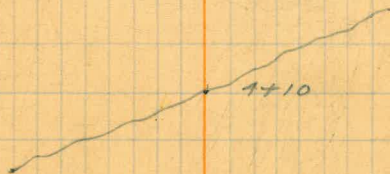
10/17/58

Hill
Isbell
Leckey
Brooks

23



Main channel
San Vicente crk.



1+06.2

0+00

State Hwy
part

-18'

| Sta. | Def'ec. | C.C. | Curve Data |
|--------|---------------|------|-------------|
| +54.2 | 15°02'30" EC. | | |
| +50 | 14°59' ✓ | | |
| 16 | 14°16' ✓ | | |
| +50 | 13°33' ✓ | | |
| 15 | 12°50' ✓ | | |
| +50 | 12°07' ✓ | | |
| 14 | 11°24' ✓ | | Δ 50°05' L |
| +50 | 10°41' ✓ | | R 2000. |
| 13 | 9°58' ✓ | | T 537.4 |
| +50 | 9°15' ✓ | | L 1050.1 |
| 12 | 8°32' ✓ | | P.I. 117415 |
| +50 | 7°49' ✓ | | |
| 11 | 7°06' ✓ | | |
| +50 | 6°23' ✓ | | |
| 10 | 5°40' ✓ | | |
| +50 | 4°57' ✓ | | |
| 9 | 4°14' ✓ | | |
| +50 | 3°31' ✓ | | |
| 8 | 2°48' ✓ | | |
| +50 | 2°05' ✓ | | |
| 7 | 1°22' ✓ | | |
| +50 | 0°39' ✓ | | |
| 6+04.1 | BC. | | |

| Sta. | Deflec. | C.C. | Curve Data |
|---------|--------------|------|---------------|
| 29+99.3 | 14°55'30" EC | | |
| +50 | 14°13' | | |
| 29 | 13°30' ✓ | | |
| +50 | 12°47' ✓ | | |
| 28 | 12°04' ✓ | | |
| +50 | 11°21' ✓ | | |
| 27 | 10°38' ✓ | | |
| +50 | 9°55' ✓ | | A 29°51' L |
| 26 | 9°12' ✓ | | R. 2000' |
| +50 | 8°29' ✓ | | T 533.1 |
| 25 | 7°46' ✓ | | L 1042.0 |
| +50 | 7°03' ✓ | | Pt. 24+90.4 |
| 24 | 6°20' ✓ | | Ext. 69.74 |
| +50 | 5°37' ✓ | | |
| 23 | 4°55' ✓ | | |
| +50 | 4°12' ✓ | | |
| 22 | 3°29' ✓ | | |
| +50 | 2°46' ✓ | | |
| 21 | 2°03' ✓ | | |
| +50 | 1°20' ✓ | | |
| 20 | 0°37' ✓ | | |
| 17+57.3 | BC | | |

40

38

36

34

32

sta. Detloc. c.c.

Curr
Data~~46+71.3 1°57'30" Ee.~~~~+50 1'39'~~~~46 3°06'~~~~+50 3°13'~~~~45 2°30'~~~~+50 10'47"~~~~44 1°09'~~~~+50 0°21'~~~~43+25.1 Bc.~~ $\Delta 9^{\circ}55' R$

R. 2000.

T. 173.5

L. 3462

Pl. 444986

Transferred to
Book #5-48

stadia loc. along clearing from top of
Wildcat Canyon - north.

2-7-39
Hill
Isbell
Sopner
Remman
cloudy

28

| Sta. | Dist. | Hor. L | Vert. L | H.L. | Red. | Mag. | L & R | B.M. 1548.4 |
|--------------------------|------------------------------------|---------------------------|-------------------|------|------|---------------------|--|----------------------------------|
| 6 to 8 | 273.8 (273') | P.O.T. | -1°32' | 5.1 | 5.1 | | | +3.9 1552.3 -5.1 1547.2 |
| | | | | | | | El. of. #1 | |
| | | | | | | | $\frac{-6^\circ}{100'}$ 8. $\frac{+6^\circ}{100'}$ | |
| 6 to 7 | 166.0 (167') | P.O.T. | -6°29' | 5.1 | 5.1 | | | |
| | | | | | | | $\frac{+6^\circ}{75'}$ 30' 7. $\frac{+11^\circ}{100'}$ | |
| 5 to 6 P.O.T. | 495.2 (495') | (1°28'30") 0°44' R. | -2°23' | 4.9 | 4.9 | N. 5° E. | | |
| | | | | | | | Level $\frac{+7^\circ}{80'}$ 40' 6. $\frac{-6^\circ}{30'}$ 25' $\frac{+8^\circ}{25'}$ Level $\frac{15'}$ | |
| 3 to 5 Δ | 613.6 (613') | | -1°37' | 4.9 | 4.9 | | | |
| | | | | | | | $\frac{-1^\circ}{100'}$ 5. $\frac{+4^\circ}{15'}$ Level $\frac{100'}$ | |
| 3 to 4 | 300.4 (300') | (23°21') 11°40' 30" R. | -2°46' | 4.9 | 4.9 | N. 3° 30' E. | | |
| | | | | | | | Level $\frac{+2^\circ}{30'}$ 40' $\frac{-5^\circ}{35'}$ 1. $\frac{+7^\circ}{100'}$ | |
| 1 to 3 Δ | 314.9 (314') | | -0°50' | 5.1 | 5.1 | | | |
| | | | | | | | $\frac{-2^\circ}{60'}$ $\frac{-7^\circ}{60'}$ 3. $\frac{+10^\circ}{30'}$ $\frac{+4^\circ}{50'}$ | |
| 1 to 2 | 99.0 (98') | P.O.T. | -0°42' | 5.1 | 5.1 | N. 9° 15' W. & Road | | |
| | | | | | | | $\frac{-2^\circ}{100'}$ 2. $\frac{+4^\circ}{100'}$ | |
| 1 to 0 | 516.0 516.6 (516) | | -0°46' | 5.1 | 5.1 | S. 9° 15' E. & Road | | |
| | | | | | | | $\frac{+2^\circ}{100'}$ $\frac{-3^\circ}{30'}$ 1. $\frac{+4^\circ}{25'}$ rd. $\frac{+4^\circ}{75'}$ | |
| | | | | | | | $\frac{+2^\circ}{100'}$ 0. $\frac{-8^\circ}{100'}$ rd. | |
| Transit at #1 B.S. on #0 | | | | | | | | |

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod | Mag. | L | \angle | R. |
|--------|-------------------|--------|---------|------|--------------------|-------------|--|--|---|
| 97016 | 2057.0 (2050') | P.O.T. | +0°29' | 5.0 | +17.2 5.0 15093 | | $\frac{+2^\circ}{100'}$ | $\frac{-1^\circ}{10'}$ 14. | 16. $\frac{+3^\circ}{100'}$ |
| 97015 | 1691.0 (1690') | P.O.T. | +0°02' | 5.0 | +1.0 14931 | Q. Road | $\frac{-3^\circ}{100'}$ | level 15. $\frac{1^\circ}{10'}$ 14. | level $\frac{1^\circ}{100'}$ |
| 97014 | 1521.0 (1520') | P.O.T. | -0°08' | 5.0 | -3.5 14886 | | $\frac{-5^\circ}{65'}$ | $\frac{-2^\circ}{45'}$ 14. | level $\frac{1^\circ}{15'}$ 14. level $\frac{1^\circ}{30'}$ $\frac{-8^\circ}{40'}$ $\frac{+10^\circ}{40'}$ |
| 97013 | 1265.9 (1265') | P.O.T. | -0°41' | 5.0 | -15.1 14770 | | $\frac{-2^\circ}{100'}$ | 13. | $\frac{+3^\circ}{75'}$ 14. $\frac{+8^\circ}{100'}$ |
| 97012 | 810.4 (810') | P.O.T. | -1°34' | 5.0 | -22.1 14700 | Q. Road | $\frac{-1^\circ}{100'}$ | 12. $\frac{1^\circ}{10'}$ | $\frac{+2^\circ}{100'}$ |
| 97011 | 675.2 (675') | P.O.T. | -2°08' | 5.0 | -25.1 14670 | | $\frac{-1^\circ}{100'}$ 11. $\frac{1^\circ}{45'}$ | $\frac{+1^\circ}{45'}$ $\frac{+12^\circ}{60'}$ | |
| 97010 | 311.2 (311') | P.O.T. | -3°02' | 5.0 | -16.5 14756 | N. 3°45' E. | $\frac{-1^\circ}{100'}$ | 10. | $\frac{+3^\circ}{30'}$ $\frac{+6^\circ}{90'}$ |
| 6709 X | 715.9 (715') | P.O.T. | -0°46' | 5.1 | -9.6 14921 | | $\frac{+1^\circ}{80'}$ | $\frac{-5^\circ}{30'}$ 9. | $\frac{+7^\circ}{90'}$ $\frac{+17^\circ}{50'}$ |

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H. I. | Rod. | Mag. | L | Σ | R | |
|---------------------|-------------------|---|---------|-------|----------------------|--------------|--------------|-------------|---|----------------------------|
| 20 to 24 | 545.3 (550') | P.O.T. | -5°55' | 4.9 | -66.5 1479.1 14.9 | | +12° 65' | -14° 40' | 24 . +12° 100' | |
| 20 to 23 | 391.7 (395') | P.O.T. | -6°05' | 3.9 | -49.7 1491.9 11.9 | | -5° 100' | | 23 . +12° 100' | |
| 20 to 22 | 239.3 (245') | P.O.T. | -9°32' | 4.9 | -40.2 1500.4 4.9 | | +6° 60' | -6° 40' | 22 . +12° 100' | |
| 20 to 21 | 68.6 (72') | <small>This L For Topog. line only</small> 22°06' R. | -14°16' | 4.9 | -23.9 1516.7 4.9 | N. 41°30' E. | +7° 70' | +14° 30' | 21 . -5° 35' +8° 65' | |
| 18 to 20 Δ | 316.0 (315') | (5°26'30") 2°45' R. | +0°21' | 5.1 | +1.9 1540.6 5.1 | N. 19° E. | -8° 50' | +6° 25' | 20 . ^{31°} -26° 30' level 40' +12° 50' | |
| X of 20 20 to 19 | 36.9 (38') | P.O.T. | -13°33' | 4.9 | -8.9 1531.7 ? | | level 20' | +7° 65' | +16° 16' | 19 . -4° 45' +8° 65' |
| 17 to 18 Δ | 243.5 (243') | (26°13') 13°06'30" R. | +2°48' | 5.0 | +11.3 1539.7 5.0 | N. 16° E. | +1° 75' | -3° 50' | 18 . +5° 75' +8° 50' | |
| 9 to 17 Δ | 2406.7 (2406') | | +0°48' | 5.0 | +34.7 1526.8 4.0 | | level 75' | -4° 55' | 17 . +4° 100' | |

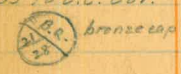
(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Red. | Mag. | L | Q | R |
|--|-------------------|--------------------------|---------|------|----------------------|-----------|---|---|---|
| Fl on rock 4' above ground 29 to 32 Δ | 363.0 (365') | | -5°11' | 6.0 | -32.9 6.0 1427.9 | | $\frac{-38^\circ}{80'}$ | $\frac{-18^\circ}{35'}$ | $\frac{-8^\circ}{55'}$ 32. $\frac{\text{level}}{30'}$ + $\frac{8^\circ}{70'}$ |
| 29 to 31 | 273.5 (275') | F.O.T. | -5°33' | 6.0 | -28.6 8.0 1432.1 | | $\frac{-18^\circ}{70'}$ | $\frac{-8^\circ}{50'}$ 31. $\frac{+10^\circ}{100'}$ | |
| 29 to 30 F.O.T. | 198.6 (200') | (9°44'30") 4°52' L. | -6°20' | 6.0 | -31.0 15.0 1429.7 | N. 39° E. | $\frac{-10^\circ}{120'}$ | 30. $\frac{+15^\circ}{30'}$ + $\frac{+10^\circ}{70'}$ | |
| 29 to 28 | 72.0 (72') | 180° 00' | -1°01' | 6.0 | -9.3 14.0 1441.9 | | $\frac{-13^\circ}{30'}$ | $\frac{-8^\circ}{60'}$ 28. $\frac{+6^\circ}{30'}$ + $\frac{+21^\circ}{90'}$ + $\frac{+10^\circ}{40'}$ | |
| 20 to 29 Δ | 1441.1 (1444') | (46°45') 23°22'30" X. | -3°08' | 4.9 | -79.9 5.9 1467.7 | N. 43° E. | $\frac{-14^\circ}{70'}$ | $\frac{-20^\circ}{30'}$ 29. $\frac{+12^\circ}{20'}$ + $\frac{+6^\circ}{80'}$ | |
| 20 to 27 | 1177.1 (1150') | F.O.T. | -3°21' | 4.9 | -74.2 9.9 1466.9 | | $\frac{-18^\circ}{100'}$ | 27. $\frac{+8^\circ}{100'}$ | |
| 20 to 26 | 936.4 (940') | F.O.T. | -1°06' | 4.9 | -78.1 15.9 1462.5 | | $\frac{-7^\circ}{100'}$ | 26. $\frac{+10^\circ}{100'}$ | |
| 20 to 25 | 746.4 (750') | F.O.T. | -1°32' | 4.9 | -59.2 4.9 1461.4 | | $\frac{-13^\circ}{70'}$ | $\frac{-3^\circ}{45'}$ 25. $\frac{+6^\circ}{40'}$ + $\frac{+20^\circ}{60'}$ | |

2-9-39
Hill
Isbell
Sopher
Kammen

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod. | Mag. | L | ± | R | |
|-------------------------------|-----------------|------------------------------|---------|------|---------------|------------|------------------------|------------------------|---------------------------------|---|
| 37 to 39 Δ | 165.8 (165') | | -2°09' | 5.2 | -6.2 5.2 | | $\frac{-1^\circ}{60}$ | $\frac{-3^\circ}{60}$ | $\frac{-5^\circ}{20}$ 2 brd. | 10 39. $\frac{+5^\circ}{20}$ $\frac{+10^\circ}{50}$ $\frac{+13^\circ}{40}$ $\frac{+20^\circ}{50}$ |
| 37 to 38 | 75.0 (74') | (78°06'30") 39°03'30" Rt. | -0°52' | 5.2 | -1.1 5.2 | N.77°30'E. | $\frac{-2^\circ}{35}$ | $\frac{-1^\circ}{45}$ | $\frac{-5^\circ}{20}$ 2 brd. | 38. $\frac{+7^\circ}{35}$ $\frac{+10^\circ}{35}$ $\frac{+15^\circ}{45}$ $\frac{+12^\circ}{50}$ |
| 35 to 37 Δ | 328.9 (337') | P.O.T. | -9°30' | 4.7 | -55.0 4.7 | | $\frac{-7^\circ}{45}$ | $\frac{-1^\circ}{20}$ | $\frac{-4^\circ}{45}$ | 37. $\frac{+6^\circ}{35}$ $\frac{+9^\circ}{60}$ $\frac{+13^\circ}{30}$ $\frac{+20^\circ}{40}$ |
| 35 to 36 | 188.5 (193') | (41°53'30") 28°57' Lt. | -9°49' | 4.7 | -32.6 11.7 | N.38°30'E. | $\frac{-3^\circ}{45}$ | $\frac{-8^\circ}{60}$ | $\frac{36}{115}$ 66° | $\frac{+11^\circ}{25}$ $\frac{+21^\circ}{75}$ |
| 35 to G.C. Cor. bronze cap | (180') | 115°58' Rt. | -9°50' | 4.7 | 4.7 | | | | | |
| 32 to 35 Δ | 509.0 (513') | | -5°49' | 4.0 | -51.8 4.0 | | $\frac{-12^\circ}{50}$ | $\frac{-14^\circ}{65}$ | 35. | $\frac{+28^\circ}{80}$ $\frac{+50^\circ}{20}$ |
| 32 to 34 | 420.6 (430') | | -5°51' | 4.0 | -52.7 13.0 | | $\frac{-16^\circ}{75}$ | $\frac{-20^\circ}{25}$ | 34. | $\frac{+20^\circ}{70}$ $\frac{+45^\circ}{30}$ |
| 32 to 33 | 218.9 (223') | (42°32') 21°16' R. | -8°40' | 4.0 | -39.1 10.0 | N.59°45'E. | $\frac{-12^\circ}{75}$ | $\frac{-6^\circ}{35}$ | 33. | $\frac{+18^\circ}{100}$ |



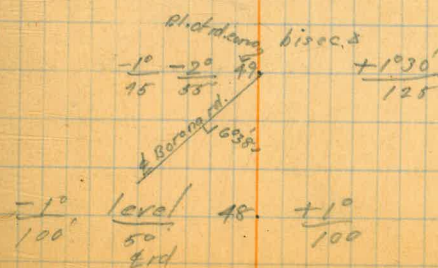
2-9-39

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H. I | Rod. | Mag. | L | E | R |
|------------|-----------------|---------------------------|---------|------|------|---|-------------------------------|-----------------|--|
| 45 to 47 | 130.0 (129') | P.O.T. | +0°03' | 5.1 | 5.1 | | $\frac{-0.30'}{150}$ | 47 65 | $\frac{+0.30'}{150}$ |
| 45 to 46 | 56.3 (56') | (12°35'30') 6°18' Rt. | -6°35' | 5.1 | 5.1 | N. 76° E. | $\frac{-0.30'}{150}$ | 46 65 | $\frac{+0.30'}{150}$ |
| 43 to 45 Δ | 875.9 (875') | | +0°32' | 5.0 | 5.0 | | $\frac{-0.30'}{200}$ | 45 65 | $\frac{+1.0'}{85}$ level 75 |
| 43 to 44 | 199.0 (198') | (29°59') 14°59'30" Lt. | +0°04' | 5.0 | 5.0 | N. 69°30' E. | $\frac{-0.30'}{150}$ | 44 120 60 | $\frac{+0.30'}{150}$ |
| 41 to 43 Δ | 508.0 (504') | | +0°15' | 5.1 | 5.1 | | $\frac{-1.5'}{20}$ smaller | 43 85 | $\frac{+1.0'}{150}$ |
| 41 to 42 | 163.0 (162') | (24°42'30") 12°21' Lt. | +0°06' | 5.1 | 5.1 | N. 85° E. crk note crk. 45 turns to left & crosses rd. about opp. this sta. | $\frac{-3.0'}{70}$ | 42 70 | $\frac{+1.30'}{200}$ |
| 39 to 41 Δ | 355.0 (354') | | -0°20' | 5.1 | 5.1 | | crk $\frac{+1.0'}{35}$ | 45 45 | $\frac{-2.0'}{85}$ 41 $\frac{-3.0'}{50}$ $\frac{+6.0'}{15}$ $\frac{+4.0'}{60}$ $\frac{+5.0'}{40}$ $\frac{+3.0'}{40}$ barn garage |
| 39 to 40 | 293.0 (292') | (38°43') 19°21'30" Rt. | -0°17' | 5.1 | 5.1 | S. 83°30' E. | crk $\frac{-2.0'}{130}$ | 40 80 | $\frac{-5.0'}{45}$ 40 $\frac{+2.0'}{15}$ $\frac{+1.8'}{10}$ $\frac{+3.0'}{12}$ $\frac{+1.0'}{50}$ $\frac{+4.0'}{5}$ $\frac{+6.0'}{70}$ carhouse |

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod. | Mag. | |
|--|-----------------|-----------------------------|---------|------|------|--------------|-----------------------------|
| 49 to 50 | 282.9 (282') | (110°01'30") 55°00'30" L | +1°19' | 5.1 | 5.1 | N. 21°30' E. | 50 in center of Berano road |
| Pl. of road curvo (near red roofed church) | | | | | | | |
| 45 to 49 Δ | 783.9 (783) | | +0°31' | 5.1 | 5.1 | | |
| 45 to 48 | 615.0 (614') | P.O.T. | +0°10' | 5.1 | 5.1 | | |



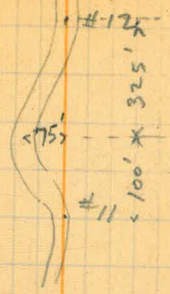
Stadia loc. along existing road from top of Wildcat Canyon to north end of W.P.A. improvement.

Hill
Isbell
Super
Remmen

cloudy
2/9/39

36

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Red. | Mag. |
|----------|----------------|-------------|----------------------|------|---------------------|----------------------|
| 11 to 12 | 422.3 (425) | | -5°27' | 5.0 | -90.3 11.89 5.0 | In road |
| 10 to 11 | 211.5 (214) | (51°20') | 25°40' Lt. -7°24' | 5.1 | -27.5 1229.9 5.1 | S. 42°15' W. In road |
| 9 to 10 | 313.9 (316) | (41°27') | 20°44' Rt. -6°38' | 5.3 | -30.3 1256.9 5.3 | S 68° W. In road |
| 8 to 9 | 229.7 (226) | (21°57') | 10°58' Rt. -5°53' | 5.1 | -23.1 1293.1 5.1 | S 47°30' W. In road |
| 7 to 8 | 244.4 (248) | (61°41'30") | 30°51' Rt. -7°54' | 5.1 | -32.9 1316.2 5.1 | S 36°45' W. In road |
| 6 to 7 | 269.2 (270) | (1°23'30") | 0°42' Rt. -5°58' | 5.2 | -28.0 1350.1 5.2 | S 5°15' W. In road |
| 5 to 6 | 528.8 (530) | (59°48'30") | 29°54'30" Rt. -3°49' | 5.2 | -35.3 1378.1 5.2 | S. 5° W. In road |
| 4 to 5 | 435.9 (437) | (124°24') | 62°12' Lt. -4°09' | 5.1 | -31.6 1413.4 5.1 | S. 25° E. In road |
| 3 to 4 | 164.4 (165) | (87°17'30") | 43°39' Rt. -5°49' | 5.1 | -16.7 1445 5.1 | S. 38° W. In road |
| 2 to 3 | 98.1 (98) | (113°57') | 56°58'30" Rt. -5°34' | 5.2 | -9.6 1461.7 5.2 | S. 6° E. In road |
| 1 to 2 | 187.5 (188) | (134°41') | 67°20'30" Lt. -5°12' | 5.0 | -17.1 1471.9 5.0 | S. 64° E. In road |
| 0 to 1 | 618.7 (620) | (21°55'30") | 10°58' Rt. -3°37' | 5.1 | -39.1 1488.4 5.1 | S. 3°30' W. In road |



Elev. 0 = 1535.2

0 In road

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H. I | Rod |
|------|-------|--------|---------|------|-----|
|------|-------|--------|---------|------|-----|

Mag.

| |
|--------|
| 1148.4 |
| 1135.3 |
| 1108.0 |

| |
|--------|
| 1145.7 |
| 1132.6 |
| 1105.3 |
| 1.06 |
| 1104 |

| | | | | | | | |
|----------|---------------------------------------|-----------------------------|----------|-----|---------------------------------|------------|-------------------------------------|
| 14 to 15 | 395.2 (396) | (65°24'30") 32°42'30" RH | -3°58' | 5.2 | -27.4 5.2 | S.34°W. | In road |
| 13 to 14 | 436.6 (436) | (57°43') V 28°51'30" Lt. | -1°43' V | 5.1 | -13.1 5.1 | S.0°30'W. | In road #14 Beginning improved road |
| 11 to 13 | 1005.7 1007.2 (1010) | (24°44') 12°22' Lt. | -4°20' | 5.0 | 80.9 -83.3 5.0 | S.29°45'W. | N.W. of Road |

El. pt. 15 11133

+ 1.06

+ 1114.4

10990 U.S. B.M. - 7.8

BRONZE COP

1106.6

Stadia loc. from Barona road near church
south to junction with clearing line.

| Sta. | Dist. | Hors | Verta | H.I. | Red + 51 | Mag. D. |
|--------|-----------------|--------|--------|------|---------------|---------|
| 0 to 4 | 531.0 (530') | P.O.T. | -0.36' | 5.0 | -10.6 12.0 | L |
| 0 to 5 | 476.0 (475') | P.O.T. | -0.32' | 5.0 | -4.4 5.0 | |
| 0 to 2 | 236.9 (235') | P.O.T. | -1.23' | 5.0 | -5.7 6.0 | |

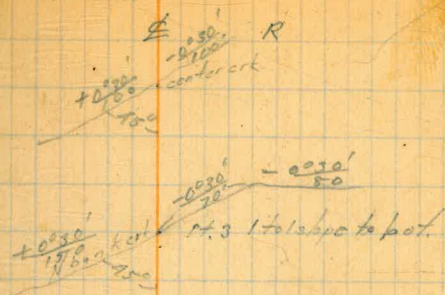
0 to 1 = EC. 152.4 17°20' R Level 5.0 8.8
R. 1000.
T 152.4
L 302.5

0 = P.I. = 50' on forward tang. from RL road curve - P. 34
1381.2

0-1 233.9
(-233) +1.17 5.0 +5.2
5.0

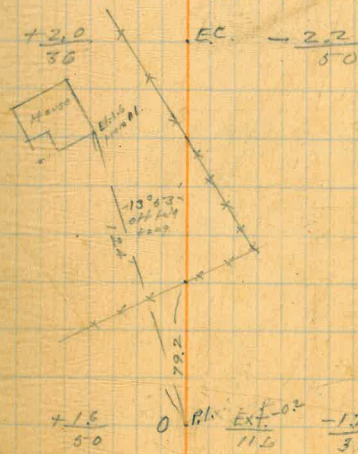
2/10/39 Williams
Hill
Super
Remission
rain

38



$\frac{+10}{150}$ $\frac{-12}{45}$ 2 $\frac{-2}{45}$ $\frac{-0.50}{150}$

523°45' W



0-1 in center of road

(cont.)

| Sta | Dist. | Hor. A | Vert. A | H.I. | Red. El. | Mag. B. |
|----------|-------------------|--------|---------|------|-----------------------|---------|
| 11 to 12 | 189.0 (183') | P.O.T. | +0°45' | 4.0 | +2.1 4.8 | |
| 8 to 11 | 414.2 (414') | P.O.T. | +2°36' | 3.5 | +15.0, 13.9, 8 6.5 | |
| 8 to 10 | 362.0 (362') | P.O.T. | +3°06' | 3.5 | +13.6 9.5 | |
| 8 to 9 | 258.9 (258') | P.O.T. | +1°21' | 3.5 | +3.1 6.5 | |
| * 0 to 8 | 1621.0 (1621') | P.O.T. | +0°06' | 5.0 | +2.8 5.0 | |
| 0 to 7 | 1301.0 (1300') | P.O.T. | -0°11' | 5.0 | -9.2 10.0 | |
| 0 to 6 | 941.0 (940') | P.O.T. | -0°12' | 5.0 | -8.3 10.0 | |
| 0 to 5 | 581.0 (580') | P.O.T. | -0°28' | 5.0 | -4.7 6.0 | |

Mag. B.

$$L \quad \phi \quad R$$

$$\frac{+60}{100} \quad 12 \quad \frac{-9^\circ}{90} \quad \frac{-20}{50}$$

$$\frac{+40}{80} \quad \frac{\text{level}}{20} \quad \frac{-50}{35'} \quad 11 \quad \frac{+7^\circ}{70} \quad \frac{\text{level}}{20} \quad \frac{-4^\circ}{50}$$

$$\frac{+30}{100} \quad \frac{-40}{45} \quad 10 \quad \frac{+6^\circ}{40} \quad \frac{+30}{30} \quad \frac{-30}{30}$$

$$\frac{+20}{60} \quad \frac{+10}{50} \quad \frac{\text{level}}{30'} \quad 9 \quad \frac{+3^\circ}{30} \quad \frac{+2^\circ}{80}$$

$$\frac{+20}{150} \quad \frac{\text{level}}{20'} \quad 8 \quad \frac{-3^\circ}{45} \quad \frac{-10}{80}$$

$$\frac{+40}{75} \quad \frac{+10}{80} \quad 7 \quad \frac{-0^\circ 30'}{100}$$

$$\frac{+0^\circ 30'}{150} \quad 6 \quad \frac{-0^\circ 30'}{150}$$

$$\frac{+0^\circ 30'}{100} \quad 4.5 \quad \frac{\text{s. back, for slope to bot.}}{100} = 0^\circ 30'$$

(cont.)

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Red. |
|------------|-----------------|----------|--------------------|------|----------------------|
| 19 to 20 A | 68.7 (68') | (0°08') | 0°04' Lt. + 4°02' | 4.5 | +4.1 5.2 |
| 18 to 19 A | 131.6 (131') | (51°03') | 25°32' Rt. + 3°26' | 4.8 | +7.9, 1396.7 1.8 |
| 17 to 18 A | 111.1 (111') | (57°12') | 28°36' Lt. + 5°13' | 4.5 | +10.2, 1388.4 4.5 |
| 13 to 17 | 354.1 (354') | P.O.T. | +2°58' | 4.8 | +18.4, 1378.6 4.8 |
| 13 to 16 | 320.0 (320') | P.O.T. | +3°12' | 4.8 | +17.9 4.8 |
| 13 to 15 | 228.7 (228') | P.O.T. | +2°18' | 4.8 | +6.2 4.8 |
| 13 to 14 | 153.7 (153') | P.O.T. | +2°28' | 4.8 | +6.6 4.8 |
| 11 to 13 X | 328.7 (328') | P.O.T. | +1°48' | 4.8 | +10.4, 1360.2 4.8 |

Feb. 14 - 1939

Williams
Hill
Isbell
Sopher
Remisch
Knight.7.77
2.66
10.11
2.0
9.21
7.89
1.32

40

| Mag. | L | R |
|---------------------------|-------------|------------------|
| S. 20° 15' W. Grade 7% | +20° 70 | +18° 35 |
| | 2.0 | -17° 55 OK |
| | | +19° 60 |
| S. 20° 15' W. | 0.7 20 | +17° 46 |
| Cut 3. + for +3°26' | 19 | -17° 80 OK |
| | | +19° 30' |
| S. 15° W. | 2.0 | |
| Cut 3. + for +3°26' | 18 | -20° 35 |
| | +18° 100 | -10° 65' |
| | +21° 100 | -13° 100 |
| | +23° 100 | -16° 40 |
| | | -6° 60 |
| | +22° 30 | +14° 40 |
| | | 15 |
| | | -6° 100 |
| S. 29° W. | +11° 60 | +9° 40 |
| | | 14 |
| | | -4° 100 |
| | +7° 50 | +5° 50 |
| | | 13 |
| | | -4° 100 |

| | | |
|------|------|------|
| 12.5 | 10.3 | 10.3 |
| 27.4 | 3.7 | 4.7 |
| | 6.6 | 5.7 |
| | | 10.9 |
| | | 9.2 |
| | | 1.8 |

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod. |
|------------|-----------------|----------|---------------------------|------|------|
| 26 to 28 | (129') | P.O.T. | +2°50' | 4.8 | 4.8 |
| 26 to 27 | (91') | P.O.T. | -0°33' | 4.8 | 4.8 |
| 25 to 26 Δ | 103.5 (103') | (0°10') | 0°04'30" Lt. +4°02' | 4.7 | 9.2 |
| 24 to 25 Δ | 275.7 (276') | (7°09') | 3°34'30" Rt. +4°02' | 4.4 | 4.1 |
| 22 to 24 Δ | 179.3 (180') | (9°52') | 4°24'30" Rt. 4°56' Rt. | 4.6 | 4.6 |
| 22 to 23 | 82.4 (82') | P.O.T. | +5°0' | 4.6 | 12.6 |
| 21 to 22 Δ | 148.4 (150') | (40°01') | 20°00' Lt. +7°37' | 4.6 | 4.6 |
| 20 to 21 Δ | 155.3 (155') | (15°26') | 7°48' Lt. +4°02' | 4.6 | 12.9 |

| Mag. | L | R |
|---------------|---|---|
| | | |
| | | |
| 3.1° W. | $\frac{+15^\circ}{60} \frac{+35^\circ}{20}$ $0.1.8 \text{ to } 7\%$ | $\frac{+32^\circ}{55} \frac{26}{25}$ $\frac{-30^\circ}{25} \frac{+15^\circ}{30} \frac{+25^\circ}{50}$ |
| S. 1° W. | $0.6.2 \text{ to } 7\%$ $\frac{+17^\circ}{40} \frac{+28^\circ}{25}$ | $25 \frac{-35^\circ}{30} \frac{+20^\circ}{40} \frac{+27^\circ}{30}$ |
| S. 2° E. | $0.5.9 \text{ to } 7\%$ $\frac{+33^\circ}{55} \frac{+21^\circ}{45}$ | $24 \frac{-27^\circ}{5} \frac{-37^\circ}{35} \frac{+22^\circ}{65}$ |
| | $\frac{+25^\circ}{60} \frac{+20^\circ}{50}$ | $23 \frac{-23^\circ}{35} \frac{+12^\circ}{55} \frac{+22^\circ}{30}$ |
| S. 64° E. | $0.0.2 \text{ to } 7\%$ $\frac{+21^\circ}{60} \frac{+23^\circ}{45}$ | $22 \frac{-20^\circ}{60} \frac{+22^\circ}{50}$ |
| S. 13° 30' W. | $F. 8.37 \text{ to } 7\%$ $\frac{+17^\circ}{80} \frac{+25^\circ}{38}$ | $21 \frac{-17^\circ}{45} \frac{+12^\circ}{60}$ |

1463.4
 1460.6
 1440.9
 1422.4
 1423.2
 1402.9

11.2
9.6
1.6

| Sta. | Dist. | Hor. L | Vert. L | H. I. | Red. |
|------------|-----------------|-----------------------------|----------|-------|--------------|
| 30 to 32 | 275.0 (275') | on line 30 to 34 P.O.T. | +3° 33' | 4.9 | +8.1 13.9 |
| 30 to 31 | 217.0 (217') | (8° 10') 4° 04' 30" Lt. | +4° 02' | 4.9 | +10.6 9.6 |
| 26 to 30 Δ | 276.8 (299') | (62° 59') 31° 30' Rt. | +4° 54' | 4.6 | +25.4 4.6 |
| 26 to 29 | 135.7 (135') | P.O.T. | +2° 44' | 4.6 | +6.5 4.6 |
| 26 to 28 | 68.5 (68') | P.O.T. | -4° 51' | 4.6 | -5.8 4.6 |
| 26 to 27 | 32.2 (33') | P.O.T. | -13° 18' | 4.6 | -7.6 4.6 |
| 26 to 29 Δ | (364') | (13° 31') 6° 45' 30" Lt. | +7° 02' | 4.8 | 4.6 |
| 26 to 29 | (328') | (13° 34') 6° 47' Lt. | +4° 02' | 4.8 | 5.9 |

| Mag. | L | Q | R |
|------|-----------------------|------------------------|--|
| | $\frac{+5^\circ}{65}$ | $\frac{+20^\circ}{20}$ | $\frac{-25^\circ}{15}$ |
| | | | 32 $\frac{+25^\circ}{30}$ $\frac{+28^\circ}{70}$ |
| | | | 31 $\frac{+30^\circ}{40}$ $\frac{+24^\circ}{60}$ |
| | | | 30 $\frac{+30^\circ}{65}$ $\frac{+20^\circ}{35}$ |
| | | | 29 $\frac{+7^\circ}{70}$ $\frac{-14^\circ}{30}$ $\frac{+27^\circ}{80}$ $\frac{+23^\circ}{20}$ |
| | | | 28 $\frac{+8^\circ}{40}$ $\frac{+5^\circ}{60}$ $\frac{-7^\circ}{5}$ $\frac{+30^\circ}{100}$ |
| | | | 27 $\frac{+24^\circ}{50}$ $\frac{+20^\circ}{25}$ $\frac{+10^\circ}{30}$ $\frac{-10^\circ}{10}$ $\frac{+20^\circ}{20}$ $\frac{+28^\circ}{70}$ |

Phon rock 2' above ground
S. 6° E. C. 2.0 to 7.0

S. 6° E. C. O.T. to 7.0

Feb. 15-1939

W. Williams
H. H. Isbell
Sopher
Remmen
Knight

43

| Sta. | Dist. | Hor. L. | Vert. L. | H.I. | Red. | Mag. | L | R |
|----------|---------------------------|-----------------------------|----------|------|------|-------|--|--|
| 39 to 40 | 138.6 (138') | on line 39 to 47 | -3° 05' | 5.1 | 5.1 | -7.5 | $\frac{+0^{\circ}30'}{100}$ $\frac{+1^{\circ}}{50}$ | 40 $\frac{-5^{\circ}}{20}$ $\frac{+10^{\circ}}{50}$ $\frac{+5^{\circ}}{90}$ |
| 38 to 39 | 477.1 (477') | 0° 00' | -2° 37' | 5.1 | 5.1 | -21.8 | $\frac{+10^{\circ}}{20}$ $\frac{+1^{\circ}}{90}$ | 39 $\frac{+2^{\circ}}{125}$ |
| 37 to 38 | P.O.T. 258.7 (258') | (14° 07' 30") 7° 04' RT. | +0° 52' | 5.0 | 5.0 | +3.9 | $\frac{+10^{\circ}}{80}$ $\frac{+5^{\circ}}{25}$ | 38 $\frac{+2^{\circ}}{45}$ $\frac{+7^{\circ}}{65}$ |
| 30 to 37 | 923.2 (923') | (11° 18') 5° 38' 30" Lt. | +4° 31' | 4.9 | 11.4 | +66.4 | $\frac{+12^{\circ}}{60}$ $\frac{-9^{\circ}}{30}$ $\frac{-45^{\circ}}{10}$ | 37 $\frac{+18^{\circ}}{40}$ $\frac{+12^{\circ}}{90}$ $\frac{+8^{\circ}}{30}$ |
| 30 to 36 | 776.5 (780') | on line 30 to 37 | +4° 22' | 4.9 | 11.9 | +52.3 | $\frac{+15^{\circ}}{40}$ $\frac{+12^{\circ}}{50}$ $\frac{-3^{\circ}}{20}$ | 36 $\frac{+13^{\circ}}{100}$ |
| 30 to 35 | 677.1 (680') | on line 30 to 37 | +4° 28' | 4.9 | 12.9 | +44.9 | $\frac{+20^{\circ}}{20}$ $\frac{+15^{\circ}}{40}$ $\frac{-5^{\circ}}{45}$ | 35 $\frac{+20^{\circ}}{100}$ |
| 30 to 34 | 583.2 (585') | 4° 23' Lt. | +4° 03' | 4.9 | 1.9 | +38.3 | $\frac{+15^{\circ}}{30}$ $\frac{-5^{\circ}}{70}$ | 34 $\frac{+15^{\circ}}{110}$ |
| 30 to 33 | 374.5 (375') | on line 30 to 34 | +3° 40' | 4.9 | 12.9 | +17.0 | $\frac{-15^{\circ}}{35}$ level $\frac{+7^{\circ}}{20}$ $\frac{+7^{\circ}}{85}$ | 33 $\frac{+9^{\circ}}{40}$ $\frac{+27^{\circ}}{65}$ |

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod | Mag. | L | Ø | R |
|-----------------|-----------------|---------------------------|---------|------|---------------------|---------------|-------------|------------|---|
| 47 to 48 | 68.5 (68') | online 47 to 52 | -4°43' | 4.9 | -5.6 4.9 | | +10° 100 | +8° 30 | 1495.2 78 -8° 60 -13° 35 erk +10° 25 |
| 47 to 46 | 64.6 (64') | 180° 00' | -4°35' | 4.9 | -5.2 4.9 | | +11° 90 | +15° 15 | 1495.6 46 -10° 25 -20° 15 -5° 30 erk +6° 30 |
| 47 to 45 | 125.4 (125') | 180° 00' | -3°28' | 4.9 | -15.6 12.9 | | +4° 30 | +2° 75 | 1485.2 46 -2° 45 erk +4° 35 level 50 |
| 39 to 47 P.O.T. | 909.7 (910') | (96°49') 23°24'30" Rt. | -2°18' | 5.1 | -36.5 5.1 1500.8 | 5.57' 30" W. | +10° 100 | 47 | 1500.8 -10° 20 -15° 65 erk +8° 35 |
| 39 to 44 | 715.5 (716') | online 39 to 47 | -2°45' | 5.1 | -47.3 13.1 | Ø Rod | +0° 65 | +9° 35 | 1495.0 47 -4° 15 -5° 85 |
| 39 to 43 | 559.3 (560') | online 39 to 47 | -3°16' | 5.1 | -40.6 13.1 | | +2° 50 | +5° 70 | 1497.3 43 level 60 +10° 25 +6° 50 |
| 39 to 42 | 513.4 (514') | online 39 to 47 | -3°10' | 5.1 | -35.4 12.1 | inferred line | +3° 50 | +8° 25 | 1501.9 42 -8° 25 +2° 75 +1° 30 |
| 39 to 41 | 219.7 (220') | online 39 to 47 | -4°27' | 5.1 | -17.1 5.1 | | +2° 80 | +12° 25 | 1520.2 41 -12° 15 +12° 15 +8° 50 +5° 75 |

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Red. |
|-------------------------------|-----------------|------------------|---------|------|---------------|
| 52 to ^{RC} E.C. | 339.2 (339') | 180° 00' | +2° 55' | 5.1 | +11.3 11.1 |
| 52 to E.X. | 103.8 (104') | 174° 05' Lt. | +6° 15' | 5.1 | +11.4 5.1 |
| 52 to ^{EC} E.C. | 337.5 (337') | 68° 09' Lt. | +2° 27' | 5.1 | +14.9 5.1 |
| 52 to 9 on pres. line | 311.2' | 68° 09' Lt. | | | |
| 47 to 52 = 10 ^{from} | 518 (518') | 0° 00' | -2° 36' | 4.9 | -23.5 4.9 |
| 47 to 51 | 422.3 (422') | on line 47 to 52 | -2° 26' | 4.9 | -17.9 4.9 |
| 47 to 50 | 261.2 (261') | on line 47 to 52 | -3° 10' | 4.9 | -14.4 4.9 |
| 47 to 49 | 148.9 (149') | on line 47 to 52 | -5° 08' | 4.9 | -13.1 4.9 |

Mag. L E R

$\frac{+2^\circ}{65}$ $\frac{+11^\circ}{35}$ EC. $\frac{-5^\circ}{45}$

$R = 500'$
 $T = 338.20'$
 $E'X = 103.65'$
 $L = 594.7$

EC. ←

$\frac{+8^\circ}{90}$ $\frac{+5^\circ}{35}$ $\frac{-6^\circ}{35}$ $\frac{-5^\circ}{70}$

$\frac{+2^\circ}{120}$ 5.1 $\frac{-5^\circ}{50}$ On semi-tangent

$\frac{+21^\circ}{75}$ $\frac{+8^\circ}{25}$ 5.0 $\frac{-5^\circ}{30}$ $\frac{-2^\circ}{70}$ On semi-tangent

$\frac{+15^\circ}{25}$ $\frac{+8^\circ}{80}$ 4.9 $\frac{-5^\circ}{100}$

1491.7
 1488.7 - elev. + red.
 1482.9
 1486.4
 1487.7

Stadia Location Top of Wildcat Canyon South

2/15/39

Williams Hill

clear + warm

46

Isbell
Sapor
Kemmer
Knight

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Red & Elev. |
|----------|-----------------|--------|---------|------|--------------|
| 3 to 7 | 469.8 (1771) | P.O.T. | -7°35' | 4.4 | 4.4 -62.5 |
| 3 to 6 | 283.9 (3915) | P.O.T. | -11°15' | 4.4 | 4.4 -56.4 |
| 3 to 5 | 168.4 (1771) | P.O.T. | -11°15' | 4.4 | 4.4 -33.5 |
| 3 to 4 | 75.6 (805) | P.O.T. | -15°00' | 4.4 | 4.4 -20.2 |
| * 0 to 3 | 761.1 (763) | P.O.T. | -3°32' | 5.2 | 5.2 -47.0 |
| 0 to 2 | 681.7 (684) | P.O.T. | -4°19' | 5.2 | 5.2 -51.4 |
| 0 to 1 | 530.2 (533) | P.O.T. | -4°50' | 5.2 | 5.2 -46.1 |
| | | | | | -19.7 |

Note pt. 3 marked
586 to left
90' from back tang.

backsight on
pt. #1 of north
line

backsight on
pt. #1 of north
line

Mag. Ber.

$\frac{+30}{20}$ $\frac{-4}{20}$ $\frac{-30}{10}$ $\frac{-8}{35}$ level 7 $\frac{-3}{100}$

$\frac{-10}{65}$ $\frac{-6}{35}$ 6 $\frac{+16}{20}$ level 20 $\frac{level}{20}$ $\frac{+30}{0}$ $\frac{+13}{40}$

S22°E

$\frac{-18}{100}$ 5 level 70' $\frac{level}{20}$ $\frac{+5.0}{1.2}$ $\frac{+16}{20}$

road

$\frac{-20}{65}$ $\frac{-25}{25}$ $\frac{+2}{10}$ 4 $\frac{-2}{15}$ $\frac{+1.0}{0}$ $\frac{+7}{80}$

$\frac{-50}{40}$ level 30 $\frac{-60}{1.5}$ $\frac{-13}{30}$ 3 $\frac{+1}{65}$ $\frac{+12}{40}$

road $\frac{-80}{80}$ $\frac{-22}{5}$ $\frac{-9}{15}$ 2 $\frac{+4}{15}$ $\frac{+17}{10}$ $\frac{+10}{45}$ $\frac{+14}{50}$

S22°E

$\frac{-13}{100}$ 1 $\frac{+8}{35}$ $\frac{+3}{5}$ level 20

level 10 $\frac{+20}{15}$ $\frac{-20}{20}$ $\frac{-9}{45}$ level 10 $\frac{level}{10}$ 0 $\frac{level}{10}$ $\frac{+30}{0}$ $\frac{+12}{60}$ $\frac{+16}{40}$

| Sta. | Dist. | Hor. L | Vert. L | H.I. | Rod + Elev. | Mag. Ber. | L | R |
|-----------|-----------------|---------------------|---------|------|-------------|-----------|---|---|
| 12 to 13 | 67.0 (677) | P.O.T. | -7.09' | 5.0 | 5.0 | -8.4 | $\frac{+20^\circ}{35}$ $\frac{+18^\circ}{35}$ $\frac{-18^\circ}{30}$ $\frac{-1^\circ}{20}$ $\frac{.13}{road-5}$ $\frac{+10^\circ}{15}$ $\frac{+10.0'}{5}$ $\frac{+25^\circ}{60}$ $\frac{+12^\circ}{20}$ | |
| * 8 to 12 | 692.8 (699') | P.O.T. | -5.54' | 5.1 | 5.1 | -71.6 | $\frac{+5^\circ}{50}$ $\frac{+30^\circ}{35}$ $\frac{-35^\circ}{20}$ $\frac{level}{12}$ $\frac{level}{road-5}$ $\frac{+6.0}{1.5}$ $\frac{+12^\circ}{15}$ $\frac{+20^\circ}{90}$ | |
| 8 to 11 | 479.2 (483') | P.O.T. | -5.46' | 5.1 | 5.1 | -48.4 | $\frac{+25^\circ}{40}$ $\frac{-28^\circ}{35}$ $\frac{-15^\circ}{20}$ $\frac{level}{18}$ $\frac{level}{road-5}$ $\frac{+7.0}{1.8}$ $\frac{+22^\circ}{45}$ $\frac{+14^\circ}{50}$ | |
| 8 to 10 | 152.9 (157') | P.O.T. | -10.25' | 5.1 | 5.1 | -28.1 | $\frac{+20^\circ}{35}$ $\frac{-2^\circ}{30}$ $\frac{level}{10}$ $\frac{+16^\circ}{15}$ $\frac{-30^\circ}{25}$ $\frac{level}{7}$ $\frac{level}{7}$ $\frac{+7.0}{1.8}$ $\frac{+32^\circ}{50}$ $\frac{+15^\circ}{45}$ | |
| 8 to 9 | 14 (13) | (24°22') 12°11'R | -2°14' | 5.1 | 5.1 | -5.5 | | |
| * 5 to 8 | 673.2 (677) | | -9.53' | 5.1 | 5.1 | -57.4 | $\frac{+20^\circ}{25}$ $\frac{+30^\circ}{25}$ $\frac{-40^\circ}{25}$ $\frac{level}{15}$ $\frac{-8.0}{7}$ $\frac{-30^\circ}{5}$ $\frac{level}{5}$ $\frac{level}{5}$ $\frac{+5.0}{0}$ $\frac{+25^\circ}{18}$ $\frac{+10^\circ}{30}$ | |

S 10° E

| Sta. | Dist. | Hor. L | Vert. L | H. l. | Rod. & Elev. | Mag. Bet. | L | φ | R. | | | | | |
|----------------------|-----------------|-----------------------|---------|-------|---------------|------------|-------------|-------------|------------|-----------|--------------------|------------|---------------------|------------|
| * 19 to 20 | 124.2 (123') | P.O.T. | -6°55' | 5.1 | -15.0 5.1 | +15° 50 | -2° 40 | Level 10 | 20 | +5° 15 | +22° 30 | +10° 35 | -12° 50 | |
| N14°W | | | | | | | | | | | | | | |
| * 16 to 19 | 214.0 (214) | P.O.T. | -3°56' | 5.0 | -14.7 5.0 | | +20° 100 | +7° 30 | .19 | +5° 75 | -8° 25 | | | |
| 19 to 18 | 103.2 (104') | | -7°32' | 5.1 | -13.7 5.1 | | +15° 100 | .18 60 | -10° 20 | | -14° 60 | -6° 30 | perp to 18 | |
| 16 to 17 | 57.4 (57') | P.O.T. | -5°57' | 5.0 | -6.0 5.0 | | +8° 100 | .17 60 | -12° 70 | | -26° 35 | | | |
| same crew 2/16/39 | | | | | | | | | | | | | | |
| S13°W | | | | | | | | | | | | | | |
| * 15 to 16 | 186.5 (186') | 49°03' 29°31'30" R | +2°53' | 4.5 | +9.1 4.5 | | +20° 60 | -12° 25 | +7° 25 | .16 | -9° 40 | -30° 25 | -9.0 2.7 road-25 | |
| * 12 to 15 | 139.5 (139') | P.O.T. | -3°28' | 5.0 | -8.5 5.0 | | +25° 100 | .15 | -25° 35 | +2° 10 | +25° 10 road-15 | -10° 15 | | |
| 12 to 14 | 100.7 (102) | P.O.T. | -8°14' | 5.0 | -20.6 11.0 | | +20° 40 | +26° 60 | .14 | -8° 25 | +28° 10 road-15 | Level 5 | +10° 10 | +15° 40 |

| Sta. | Dist. | Hor. Δ | Vert. Δ | H.I. | Red. E.L. |
|------------|-----------------------|---------|---------|------|------------------------------|
| * 23 to 30 | 475.9 (482) V | P.O.T. | -7°00' | 4.9 | 1228.4 -53.3 4.9 |
| 23 to 26 | 263.4 (266) | P.O.T. | -6°41' | 4.9 | -30.9 4.9 |
| 23 to 25 | 142.3 (147) | P.O.T. | -11°29' | 4.9 | -33.9 4.9 |
| 23 to 24 | 73.6 (75) | P.O.T. | -10°11' | 4.9 | -13.2 4.9 |
| * 20 to 23 | 528.3 (330) 382 | P.O.T. | -5°14' | 5.1 | 1286.7 (30.0) 34.8 5.1 |
| 20 to 22 | 226.5 (228) | P.O.T. | -6°07' | 5.1 | -34.3 15.1 |
| 20 to 21 | 90.2 (72) V | 8°14' R | -11°29' | 5.1 | -14.2 5.1 |

Mag B.

| l | d | R |
|---|-------------|--|
| $\frac{+13^\circ}{100}$ | 30 | $\frac{-15^\circ}{10} \quad \frac{-8^\circ}{60}$ |
| $\frac{+22^\circ}{50} \quad \frac{+12^\circ}{50}$ | 26 | $\frac{-8^\circ}{40} \quad \frac{-17^\circ}{80}$ |
| $\frac{+20^\circ}{35} \quad \frac{+12^\circ}{50}$ | 25 | $\frac{-2^\circ}{35} \quad \frac{-7^\circ}{70}$ |
| $\frac{+16^\circ}{50} \quad \frac{+7^\circ}{70}$ | 24 | $\frac{-7^\circ}{25} \quad \frac{-15^\circ}{90}$ |
| S. 22° 15' N | | |
| $\frac{+15^\circ}{100}$ | 23 | $\frac{-15^\circ}{25} \quad \frac{-25^\circ}{30} \quad \frac{-12^\circ}{50}$ |
| $\frac{+25^\circ}{100}$ | 22 | $\frac{-13^\circ}{60} \quad \frac{+7^\circ}{80}$ |
| $\frac{+15^\circ}{30}$ | level 30 | $\frac{+12^\circ}{50}$ |
| | 21 | $\frac{-12^\circ}{10} \quad \frac{+32^\circ}{65} \quad \frac{-6^\circ}{40}$ |

| Sta. | Dist. | Hor. Δ | Vert. Δ | H.L. | Red. Elev. |
|---------------------|------------------|-------------------|------------------|----------------|------------------------|
| * 30 to 35 | 519.6 (529) | P.O.T. | -8°59' | 4.8 | 1174.0 -59.4 4.8 |
| 30 to 31 | (488) | P.O.T. | 7°01' | 4.8 | 4.8 |
| 30 to 33 | 319.7 (325) | P.O.T. | -8°03' | 4.8 | -45.2 4.8 |
| 30 to 32 | 170.7 (176) | P.O.T. | -10°01' | 4.8 | -30.1 4.8 |
| 30 to 31 | 71.7 (75) | P.O.T. | -13°55' | 4.8 | -17.7 4.8 |
| 30 to 29 | 59.9 (58) | P.O.T. | +1°52' | 4.8 | +11.7 4.8 |
| 30 to 28 | 96.0 (95) | P.O.T. | +0°15' | 4.8 | -4.6 4.8 |
| 30 to 27 | 149.6 (150) | P.O.T. | +5°52' | 4.8 | +14.5 4.8 |

Mag. B.

$$\frac{+7^\circ}{70} \quad \frac{+12^\circ}{50} \quad .35 \quad \frac{-14^\circ}{60} \quad \frac{-10^\circ}{130}$$

tread = 4 road

$$\frac{+17^\circ}{40} \quad \frac{+12^\circ}{75} \quad .33 \quad \frac{-5^\circ}{35} \quad \frac{-13^\circ}{40} \quad \frac{-5^\circ}{35}$$

$$\frac{\text{level}}{30} \quad \frac{+13^\circ}{75} \quad .32 \quad \frac{-6^\circ}{50} \quad \frac{-10^\circ}{40} \quad \frac{\text{level}}{60}$$

$$\frac{+10^\circ}{100} \quad .31 \quad \frac{-6^\circ}{125}$$

$$\frac{+13^\circ}{50} \quad \frac{+11^\circ}{60} \quad .29 \quad \frac{-12^\circ}{75} \quad \frac{-6^\circ}{50}$$

$$\frac{+14^\circ}{100} \quad .28 \quad \frac{-6^\circ}{65} \quad \frac{-8^\circ}{40}$$

$$\frac{-5^\circ}{25} \quad \frac{+10^\circ}{80} \quad .27 \quad \frac{-12^\circ}{100}$$

| Sta | Dist. | Hor. A | Vert. A | H.I. | Rod & Elev |
|-----------------------------|------------------|--------|-----------------------------------|------|--------------------------------------|
| See page 50 | | | | | |
| 39 to 40 | 3890 (389) | P.O.T. | -2°53' | 5.0 | -19.6 5.0 1097.5 1102.4 |
| 50+00 | | | | | |
| 39 to 41 | 704.7 (705) | | 8°16' L 4°08' L -2°39' | 5.0 | -32.6 5.0 1112.5 El. 1120.3 |
| 53+00 | | | | | |
| 51+90 | | | | | |
| * 30 to 39 | 679.0 (680) | P.O.T. | -5°54' | 5.0 | -59.6 1101.9 5.0 1096.9 |
| 51+00 | | | | | |
| 50+00 | | | | | |
| Non-arrived | | | | | |
| 36 to 38 | 217.1 (223) ✓ | P.O.T. | -9°16' ✓ | 5.0 | -77.3 1124.2 5.0 1132.7 |
| 50+00 | | | | | |
| 36 to 37 | 715 (721) | P.O.T. | -10°05' | 5.0 | -26.4 5.0 1171.5 |
| 50+00 | | | | | |
| * H. 36 on cut stationed | | | | | |
| 35 to 36 | 693 (683) ✓ | | 10°16' 30" ✓ 5°08' L -2°36' | 4.9 | 4.9 |
| 50+00 | | | | | |
| 35 to 34 | 64.8 (64) | P.O.T. | -3°01' | 4.9 | -3.4 4.9 |

Mag. B.

$-\frac{9}{30}$ Leral 40 $+\frac{54}{5}$ + $\frac{23}{100}$

Grade 22 W, +18.0

$-\frac{7}{33}$ Leral 10 $+\frac{18.0}{10}$ $+\frac{25}{100}$

$-\frac{15}{30}$ Leral 10 $+\frac{4.0}{10}$ $+\frac{16}{50}$ $+\frac{27}{50}$

Handwork 73' from
512930 W

set from '39
40' $57'$ from pt. 39

Grade 15 W, +6.9

$+\frac{8}{60}$ $+\frac{5}{50}$ Leral $20'$

B.M. 45, 1095.0

$+\frac{24}{33}$ Leral 30 $+\frac{9.0}{9}$ Leral 30 $-\frac{25}{12}$ $+\frac{30}{100}$ -2.3 below '39

$+\frac{8}{90}$ Leral 39 Leral 18 $-\frac{25}{12}$ $+\frac{30}{100}$

$+\frac{17}{33}$ $+\frac{24}{50}$ Leral 9 $+\frac{16}{12}$ $+\frac{4}{30}$ Leral 30

$+\frac{16}{90}$ $+\frac{7}{30}$ $-\frac{38}{100}$ $-\frac{1}{30}$ $-\frac{17}{25}$ $+\frac{10}{95}$

$+\frac{15}{100}$ $+.37$ $-\frac{6}{70}$ $-\frac{4}{35}$

512930 W

stations from ground

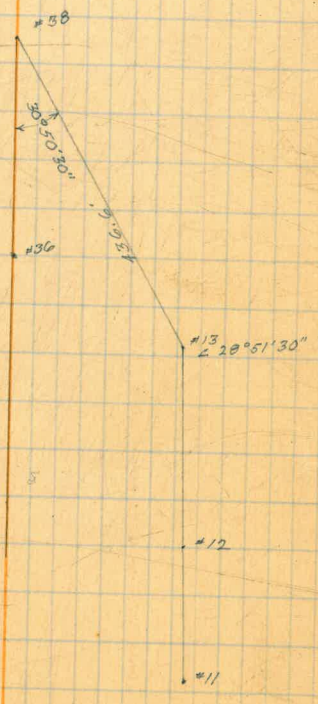
$+\frac{7}{60}$ $+\frac{10}{65}$ $.36$ $-\frac{18}{45}$ $-\frac{11}{110}$

front = 2 road

$+\frac{10}{30}$ $+\frac{10}{75}$ $.39$ $-\frac{10}{80}$ $-\frac{5}{50}$

35°
30 50 - 30
41 41

| Sta. | Dist. | Hor. Δ | Vert. Δ | H.L. | Rod + Elev. | Mag. B. |
|----------|------------------|--------|---------|------|---------------|---------|
| 12 to 11 | 422.3' (425) | | +5°24' | 5.2 | +39.9 5.2 | |
| 13 to 12 | 583.4' (586') | | +4°30' | 5.1 | +41.0 10.1 | |



56°E

| | | | | | | |
|----------|----------------|--------|-------------|--------|-----|--------------------|
| 41 to 42 | 284.2 (287) | 37°30' | 12°41'30" L | -3°05' | 5.1 | -15.5 10620 5.1 |
|----------|----------------|--------|-------------|--------|-----|--------------------|

| | | | | | | | |
|-----------------------|------------------------|------------------------|-------|----|-------|-------------------|------------------------|
| $\frac{18^\circ}{35}$ | $\frac{-12^\circ}{35}$ | $\frac{-35^\circ}{20}$ | level | 42 | level | $\frac{+16.0}{8}$ | $\frac{+30^\circ}{75}$ |
| $\frac{26^\circ}{40}$ | level | $\frac{-35^\circ}{20}$ | level | 41 | level | $\frac{+18.0}{6}$ | $\frac{+35^\circ}{90}$ |

| | | | |
|--------------|------|---------|---|
| P1.1-PJ.29 E | 263' | +6°53' | } |
| P1.2 W | 71' | +0°58' | |
| P1.2 to 3 | 318' | +2°01' | |
| P1.3 to 4 | 334' | -9°29' | |
| P1.4 to POT. | 431' | +11°53' | |
| POT. to P1.5 | 350' | -4°40' | |
| 5 to POT. | 92' | +6°07' | |

59

6" City Test 6.14 Lower than Level
 350' up stream from L.S. Pump
 #2

| Place | B.M. | Date | Depth below B.M. | El. | Rem. |
|-------------|-------|---------|---------------------|-----|------|
| County Park | 509 ± | 7/17/31 | -21.70 | | |
| | | 7/18/31 | -21.78 | | |

only 1 reading

| | B.M. | orst | El. | Date |
|----------|---------------|------|-----|---------|
| Junghaus | Top of casing | | | |
| E.G. | 486.± | 9.7 | | 7-30-31 |

61
Note Top of 8" casing 2.15 above river
channel 175' north

2 Readings

| Place | B.M. | Below Top of Casing | El. | Date |
|----------|-------|------------------------|----------|----------|
| 1 Foster | 459.0 | -2.47 | 7-18-31 | 7-18-31 |
| | | -3.40 | 12-31-29 | 12-31-29 |

one Reading

63

| Place | B. M. | Below Top Cassin | E. S. | Date |
|-----------|-------|---------------------|-------|---------|
| Holl Dist | 459.0 | 11.4 | | 7/29/31 |

B.M. is 7.8 above old N + S. River Channel

Water flowing in stream bed to here on
3-12-31 (P.O.G.)

| Place | B.M. | Below | El. | Date | |
|----------------------------|----------|-------|-----|----------|----|
| Pratt 2" | top Camp | | | | |
| Test Well | 447.3 | 27.0 | | 7-19-31 | L. |
| | | 11.4 | | 4-1-31 | H. |
| | | 34.9 | | 11-15-30 | L. |
| | | 0. | | 5-18-30 | H. |
| | | 41.0 | | 12-23-29 | L. |
| Oct 1. 1924 Change B.M. | 441.7 | 3.3 | | 2-20-29 | H. |
| | | 11.3 | | 11-30-28 | L. |
| | | 2.2 | | 7-5-28 | H. |

B.M. is 5.3 above River Channel.
Channel 50' s. of Well

| No | B.M. | Below | El. | Date | |
|----|-------|-------|----------|----------|----|
| 6 | 436.3 | 40.5 | 7-19-31 | 7-19-31 | L. |
| | | 19.0 | 4-1-31 | 4-1-31 | H. |
| | | 46.3 | 11-15-30 | 11-15-30 | L. |
| | | 2.2 | 5-18-30 | 5-18-30 | H. |
| | | 46.0 | 12-23-29 | 12-23-29 | L. |

65

B.M. 75 2' above River bed.
950 ft of dist Pumping P.L. on Line

| | B. M. | Below 14° casing | El. | Date | |
|---------|-------|---------------------|---------|----------|----|
| Mcville | 436.6 | DRY 41' | 7-14-31 | 7-14-31 | |
| | | | 31.4 | 6-20-31 | L |
| | | | 22.8 | 4-1-31 | H. |
| | | | 41.0 | 11-15-30 | L |
| | | | 6.2 | 5-18-30 | H. |
| | | | 42.5 | 12-2-29 | L. |
| | | | 20.4 | 2-20-29 | H. |
| | | | 32.6 | 11-30-28 | L. |
| | | | 13.26 | 7-5-28 | H. |

River Channel about 5' lower

about 2' ab.
River Channel

| | B.M. | Below Top Pipe | El. | Date |
|-------------------------|-------|-------------------|------|----------|
| Trutman 2 nd | | | | |
| Test Well | 431.4 | Dry | 24.0 | 7-20-31 |
| | | 17.6 | | 4-1-31 |
| | | 24.0 | | 12-15-30 |
| | | 0. | | 5-18-30 |
| | | 24.0 | | 9-12-29 |
| | | 13.4 | | 7-12-29 |
| | | 23.0 | | 11-30-28 |
| | | 8.6 | | 7-5-28 |

about 7'
ab. River
Channel.

67

| | B.M. | Below | El. | Date |
|------------|-------|-------|-----|----------|
| Trutman | | | | |
| 16" casing | 428.3 | Dry | | 7-20-31 |
| | | 18.3 | | 4-1-31 |
| | | 23.0 | | 12-15-30 |
| | | 0. | | 5-29-30 |
| | | 26.1 | | 12-23-29 |
| | | 9.7 | | 7-12-29 |
| | | 19.5 | | 11-30-28 |
| | | 6.9 | | 7-5-28 |

Closed by pump

| | B.M. | Below | El. |
|---|------|-------|---------|
| ✓ City 2 nd and Westwell | | 21.5 | 7-20-31 |

| And | B.M. | Below | El. | Date | |
|----------------------------------|-------|-------|-----|----------|----|
| Dist 2 nd and Well | 421.1 | 18.52 | | 7-20-31 | L. |
| | | 16.3 | | 4-1-31 | H. |
| | | 16.6 | | 12-15-30 | L. |
| | | 10.2 | | 4-11-30 | H. |
| | | 18.3 | | 12-23-29 | L. |
| | | 10.1 | | 7-12-29 | H. |
| | | 16.5 | | 2-20-29 | L. |
| | | 9.4 | | 7-5-28 | H. |

B.M. Below El. Date

Roberts

| | | | | |
|----------|-------|---------|----------|-----------------|
| Dug Well | 415.1 | DRY 13° | 7-20-31 | Dry all of 1931 |
| | | 12.0 | 10-25-30 | L. |
| | | 7.4 | 5-29-30 | H. |
| | | DRY | 12-23-29 | L. |
| | | 10.0 | 7-12-29 | H. |
| | | 13.5 | 11-30-28 | L. |
| | | 8.9 | 7-5-28 | H. |

B.M 413.1

Philbrook

| | | | |
|----------|------|----------|----|
| Dug Well | 15.2 | 7-20-31 | L. |
| | 12.5 | 4-1-31 | H. |
| | 14.4 | 12-15-30 | L. |
| | 9.0 | 5-29-30 | H. |
| DRY (15) | | 12-23-29 | L. |
| | 11.3 | 7-12-29 | H. |
| | 13.5 | 11-30-28 | L. |
| | 10.4 | 7-5-28 | H. |

B.M 408.4

Cannon 2" Test

| | | | |
|--|------|----------|----|
| | 11.5 | 7-20-31 | L. |
| | 8.0 | 4-1-31 | H. |
| | 10.9 | 12-15-30 | L. |
| | 5.4 | 5-29-30 | H. |
| | 11.9 | 12-23-29 | L. |
| | 7.8 | 7-12-29 | H. |
| | 9.6 | 11-30-28 | L. |
| | 7.2 | 7-5-28 | H. |

7/15/31 Gay well furthest north
S of R.R. Tract near Gal feed house

✓ 17.07 below top casing ✓

Rickerts well L-65-A 2" Test

near William Cor. 3 Vicente

Bridge

✓ 11.20 below top of reducer ✓

Rickerts well L-5 Wood Casing

✓ 15.02 east of L-65-A

✓ Jay well 2" test with reducer
about 1 mi ± east of Rickerts

H.S. Valley

✓ 21.27 below top of reducer ✓

Top of

Casing Levi well 8" casing S of Lot

393.11 59 south of City's Lake

Langdon-Whittaker wells.

Mud at 33.8 below top of casing
first time this well has gone dry

✓ Magnuson Well.

✓ 19.59 2 8" cement casing H.S. River

city well #16 come in from

road H.S. Valley

✓ 19.44 below top 12" casing down? ✓

Riverview Test well 2002

E. Cottonwood road

✓ 16.86 below top 6" casing ✓

stop at last Palen tree

last month ✓

7/15/31

Ballantyne, 2" test well East of
Martin Place opposite R.V. Point
20.85 below top of 2" pipe down 2.7

Country Farm 2" test well on
marked wire fence line west of
County pumping plant about 1/2 mi
12.82 below top pipe

plus good old dug well
east of old ranch house to
barn. old well measured by Lee
15.77 below 3 notches on H side
motor room P. ed.

Taft well on Stevens + Hartley
tract (on El Cajon Valley group
10" casing) west of Granite Pit
15.27 below top casing 1st st south of 9th Pit

71

Letter to F. A. Rhodes April 11, 1924
The following is the information you
requested.

Irrigation use in District area 1924

2,578,860 gals daily

Domestic use in District area 1924

236,557 gals daily

It should be borne in mind that
under our system of accounting a
large portion of the irrigation water
listed above is domestic and is
paid for at the domestic rate.

Domestic use in East San Diego
1924 - 225,118,000 gals.

Terapia, Normal Heights, Kensington
Park, and a few scattering consumers

75,477,000 gallons

Irrigation East San Diego

32,064,450 gallons

C. Harritt Sup.

| | | |
|---------------------------------|-----------------|----|
| L.M. L.G. & S.V. Irrig. Dist. | 11,877.34 | Ac |
| Turner Inclusion | 17.46 | Ac |
| Maryland Hts. Inclusion | 776.51 | " |
| G.B. Wilken Inclusion | 11.80 | " |
| Judson La Mesa Colony Inclusion | 364.00 | " |
| Judson Ft. Robinson Inclusion | 87.14 | " |
| Miles Inclusion | 32.76 | " |
| Grossmont Inclusion | 374.72 | " |
| Mt. Helix Inclusion | 320.00 | " |
| Thum Inclusion | 828.65 | " |
| El Cajon Inclusion (city) | 700.00 | " |
| El Cajon Valley Inclusion | 2267.00 | " |
| | <u>17655.38</u> | ac |

5.0
3.8
1.2

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1% to 1. If ground is nearly level, the cut or fill at side stake is located by the double curve method in left column and top row. The number in body level estimates the difference in elevation between the side stake and a lower stake by this amount if cut, elevate if fill. Add this amount to cut at this point, and line of sight should cut tangent. If it does not make the slight adjustment

IMPROVED TABLES
AND
INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given L may be found by dividing tangent (or external), opposite L by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

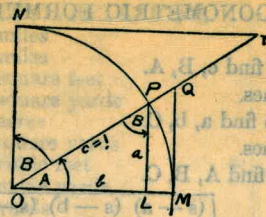


TABLE II

TRIGONOMETRIC FORMULÆ

$$\angle A = \angle MOP \quad \angle B = \angle PON = \angle OPL$$

$$R = OB = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \frac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \quad \cos \frac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

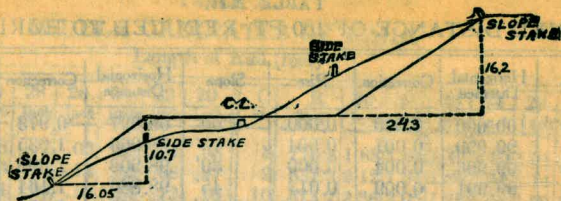
$$\sin 2A = 2 \sin A \cos A \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Lines} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \frac{1}{2}(A+B)}{\tan \frac{1}{2}(A-B)}$$

| | | | | |
|----|--------|--------|--------|--------|
| 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 1 | 0.0174 | 0.0174 | 0.0174 | 0.0174 |
| 2 | 0.0349 | 0.0349 | 0.0349 | 0.0349 |
| 3 | 0.0523 | 0.0523 | 0.0523 | 0.0523 |
| 4 | 0.0698 | 0.0698 | 0.0698 | 0.0698 |
| 5 | 0.0872 | 0.0872 | 0.0872 | 0.0872 |
| 6 | 0.1045 | 0.1045 | 0.1045 | 0.1045 |
| 7 | 0.1219 | 0.1219 | 0.1219 | 0.1219 |
| 8 | 0.1392 | 0.1392 | 0.1392 | 0.1392 |
| 9 | 0.1564 | 0.1564 | 0.1564 | 0.1564 |
| 10 | 0.1736 | 0.1736 | 0.1736 | 0.1736 |
| 11 | 0.1908 | 0.1908 | 0.1908 | 0.1908 |
| 12 | 0.2080 | 0.2080 | 0.2080 | 0.2080 |
| 13 | 0.2252 | 0.2252 | 0.2252 | 0.2252 |
| 14 | 0.2424 | 0.2424 | 0.2424 | 0.2424 |
| 15 | 0.2597 | 0.2597 | 0.2597 | 0.2597 |
| 16 | 0.2769 | 0.2769 | 0.2769 | 0.2769 |
| 17 | 0.2941 | 0.2941 | 0.2941 | 0.2941 |
| 18 | 0.3113 | 0.3113 | 0.3113 | 0.3113 |
| 19 | 0.3285 | 0.3285 | 0.3285 | 0.3285 |
| 20 | 0.3457 | 0.3457 | 0.3457 | 0.3457 |
| 21 | 0.3629 | 0.3629 | 0.3629 | 0.3629 |
| 22 | 0.3801 | 0.3801 | 0.3801 | 0.3801 |
| 23 | 0.3973 | 0.3973 | 0.3973 | 0.3973 |
| 24 | 0.4145 | 0.4145 | 0.4145 | 0.4145 |
| 25 | 0.4317 | 0.4317 | 0.4317 | 0.4317 |
| 26 | 0.4489 | 0.4489 | 0.4489 | 0.4489 |
| 27 | 0.4661 | 0.4661 | 0.4661 | 0.4661 |
| 28 | 0.4833 | 0.4833 | 0.4833 | 0.4833 |
| 29 | 0.5005 | 0.5005 | 0.5005 | 0.5005 |
| 30 | 0.5177 | 0.5177 | 0.5177 | 0.5177 |
| 31 | 0.5349 | 0.5349 | 0.5349 | 0.5349 |
| 32 | 0.5521 | 0.5521 | 0.5521 | 0.5521 |
| 33 | 0.5693 | 0.5693 | 0.5693 | 0.5693 |
| 34 | 0.5865 | 0.5865 | 0.5865 | 0.5865 |
| 35 | 0.6037 | 0.6037 | 0.6037 | 0.6037 |
| 36 | 0.6209 | 0.6209 | 0.6209 | 0.6209 |
| 37 | 0.6381 | 0.6381 | 0.6381 | 0.6381 |
| 38 | 0.6553 | 0.6553 | 0.6553 | 0.6553 |
| 39 | 0.6725 | 0.6725 | 0.6725 | 0.6725 |
| 40 | 0.6897 | 0.6897 | 0.6897 | 0.6897 |
| 41 | 0.7069 | 0.7069 | 0.7069 | 0.7069 |
| 42 | 0.7241 | 0.7241 | 0.7241 | 0.7241 |
| 43 | 0.7413 | 0.7413 | 0.7413 | 0.7413 |
| 44 | 0.7585 | 0.7585 | 0.7585 | 0.7585 |
| 45 | 0.7757 | 0.7757 | 0.7757 | 0.7757 |
| 46 | 0.7929 | 0.7929 | 0.7929 | 0.7929 |
| 47 | 0.8101 | 0.8101 | 0.8101 | 0.8101 |
| 48 | 0.8273 | 0.8273 | 0.8273 | 0.8273 |
| 49 | 0.8445 | 0.8445 | 0.8445 | 0.8445 |
| 50 | 0.8617 | 0.8617 | 0.8617 | 0.8617 |
| 51 | 0.8789 | 0.8789 | 0.8789 | 0.8789 |
| 52 | 0.8961 | 0.8961 | 0.8961 | 0.8961 |
| 53 | 0.9133 | 0.9133 | 0.9133 | 0.9133 |
| 54 | 0.9305 | 0.9305 | 0.9305 | 0.9305 |
| 55 | 0.9477 | 0.9477 | 0.9477 | 0.9477 |
| 56 | 0.9649 | 0.9649 | 0.9649 | 0.9649 |
| 57 | 0.9821 | 0.9821 | 0.9821 | 0.9821 |
| 58 | 0.9993 | 0.9993 | 0.9993 | 0.9993 |
| 59 | 1.0165 | 1.0165 | 1.0165 | 1.0165 |
| 60 | 1.0337 | 1.0337 | 1.0337 | 1.0337 |



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.

Hor. Δ 4°09' L
 Dist 637' 629.8
 Vert. Δ -6°26' -71.1

Dist. 678 - 674.2
 V. Δ -4°59' - -58.7
 Hor. Δ -1°48' L

Hor. 516.0
 76.1
 673.2
 692.8
 2693.1

Vert. 19.7
 -47.0
 -57.5
 -71.6
 2643/198.80
 185.01
 1079.0

1547.2
 195.8
 1341.9
 1547.2

74

$\frac{23}{50} \quad \frac{15}{40}$

2089 Lt 7282
7992
710

36. 33.8

.524

2623
1323

519
9.1

77° 01' 30"

$\frac{1540430}{770215}$

$\frac{90}{1323}$
 $\frac{7637}{5330}$
 $\frac{13007}{13007}$

$\frac{215403}{720130}$

519
317
613
495
715
2406
243
315
1444
365

4009 Lt

430

146

0° 50' Lt S 11 W

100

71 41

0 50

572
1180

14
76

21-16

248

$\frac{1394330}{26947}$
 $\frac{13947}{26924}$
 $\frac{13942}{13942}$

$\frac{1608}{405}$
 $\frac{1203}{2206}$

2095
243
315
1444
365
513
337
165
354
504
875
787
7993

20-56-45
2) 4153-30
 $\frac{82}{1113} \quad \frac{60}{90}$

-545

52

(414)

P.O.T.

$\frac{1139.7}{27.7}$
1112.4

1621-9
7142-11
3287-13
3541-14
1111
1316
68
155
150
180
276
103
298
428
258
477
910
519
7282

$\frac{17960}{6800}$
 $\frac{21111}{55}$
 $\frac{11111}{55}$
 $\frac{11111}{55}$

$\frac{5556}{6800}$
 $\frac{12105}{6800}$

122.5

$\frac{51.55}{285730}$

$\frac{14000}{.03}$
42000

$\frac{10.61}{39}$
0 4830

$\frac{55.55}{275730}$

54.50
57.15

$\frac{78.40}{3925}$

$\frac{53.30}{2645}$

$\frac{40.43}{215130}$

8° 11'
4° 21'

$\frac{31.25}{1543}$

$\frac{100.8}{101}$
110.9

3
179.60
25.57

$\frac{154.03}{77.01}$

$\frac{345}{690}$

$\frac{7.33}{34630}$

$\frac{2406}{311}$
2095

43
37
6

$\frac{762}{1523}$

429
680
1109

4930
3440

2107.43
53.58

1100

$\frac{33.47}{1658}$