

1339

EAST

FIELD BOOK

No. 385

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| Stadia Survey in Valley | 1 |
| Government Canyon Line | 13 |
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| Alley 7 La Jolla | 33 |

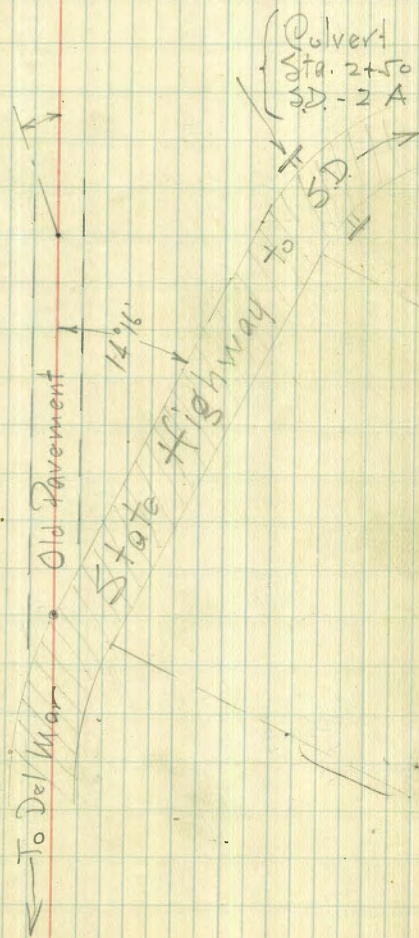
| Sta. | Deflection Lt. Rt. | Rod Reading | Dist. | Mag. Bear. |
|------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------|---------------|
| # 2 | P.O.T. | $\begin{array}{r} 7.00 \\ 2.54 \\ \hline 4.46 \\ 4.92 \end{array}$ | X | |
| | | | 13 1/2' | |
| # 1 | $\begin{array}{l} 19^{\circ} 15' \\ 38^{\circ} 30' \end{array}$ | $\begin{array}{r} 13.00 \\ 6.44 \\ \hline 6.56 \\ 13.12 \end{array}$ | ↑ | |
| | | | 199' | |
| # 0 | $\begin{array}{l} 14^{\circ} 16' \text{ - Single} \\ 28^{\circ} 32' \text{ - Double} \end{array}$ | $\begin{array}{r} 7.00 \\ 5.01 \\ \hline 1.99 \end{array}$ | ↓ | |

Stadia Survey

SOLEDAD VALLEY ROUTE
From
State Highway Easterly to Sorrento.

Cultivated Field -

Apr. 25th, 1929
Norman Coote
Frank Osborne
A.F. Hilbourne Rod.
A.L. Remmen Stks.



Sta. Deflection Lt. Rt. Rod Reading Dist. Mag. Bearing-

#4

7°22'
14°44'

13.00
3.21
9.59
1918'

1918'

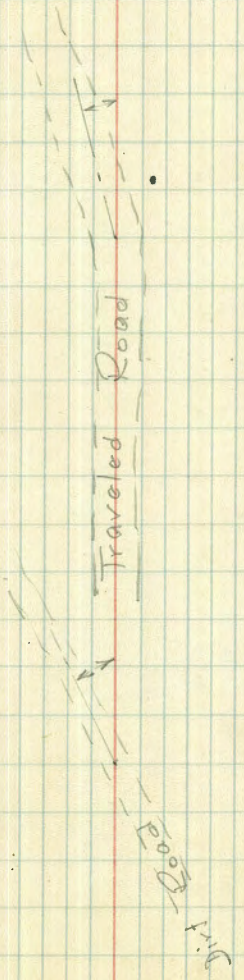
1114'

#3

25°06'
50°13'

7.00
1.43
5.57
1114'

492'



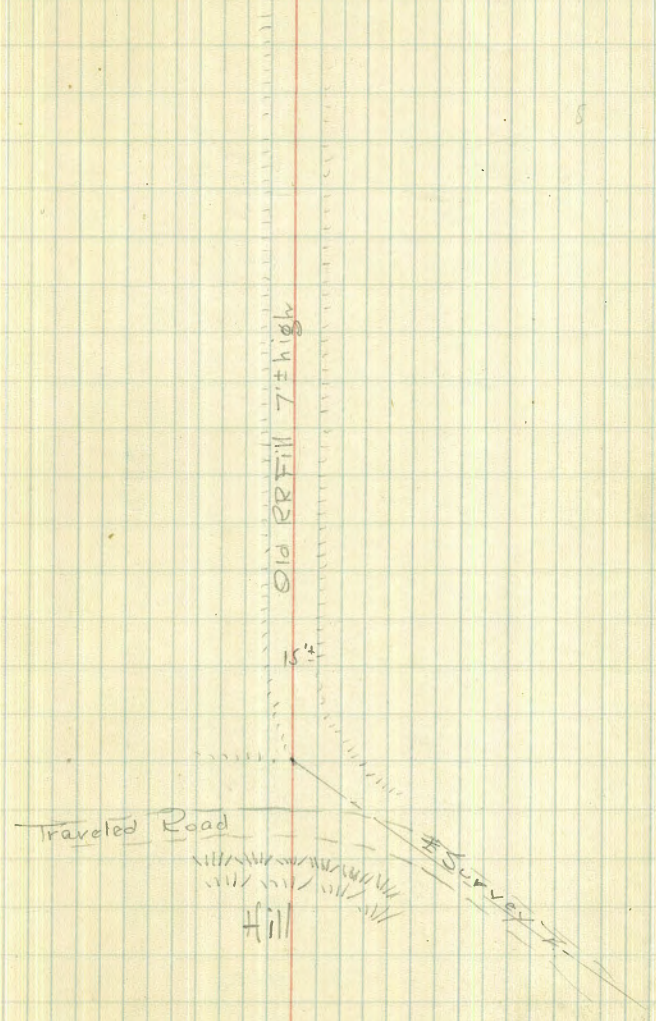
| Sta. | Deflection Lt. Rt. | Rod Reading | Dist. | Mag. Bear. |
|------|-----------------------|----------------|-------|---------------|
|------|-----------------------|----------------|-------|---------------|

| | | | | |
|----|--------|----------------------------------------------------------------|---|--|
| #6 | P.O.T. | $\begin{array}{r} 13.00 \\ - 1.78 \\ \hline 11.22 \end{array}$ | X | |
|----|--------|----------------------------------------------------------------|---|--|

1286'

S 40° E

| | | | | |
|----|-----------------------------------------------------------------|------------------------------------------------------------------------------------|---|---|
| #5 | $\begin{array}{r} 44^{\circ} 55' \\ 89^{\circ} 49' \end{array}$ | $\begin{array}{r} 13.00 \\ - 6.57 \\ \hline 6.43 \\ - 12.86 \\ \hline \end{array}$ | X | X |
|----|-----------------------------------------------------------------|------------------------------------------------------------------------------------|---|---|



| Sta | Deflection | | Rod Reading | Dist. | Mag. Bearing |
|-----|------------|-----|-------------|-------|--------------|
| | Lt. | Rt. | | | |

8

3°30'
7°00'

| |
|--------------|
| 13.00 |
| <u>6.77</u> |
| 6.23 |
| <u>12.46</u> |

652'

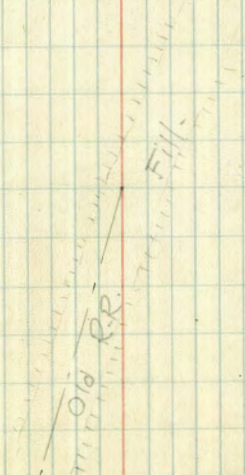
S40°E

7

P.O.T.

| |
|-------------|
| 13.00 |
| <u>6.48</u> |
| 6.52 |

1122'



| Sta. | Deflection Lt. Rt. | Pod Reading | Dist. | Mag. Bearing. |
|------|-----------------------|----------------|-------|------------------|
|------|-----------------------|----------------|-------|------------------|

10

$$\begin{array}{l} 5^{\circ}17' \\ 10^{\circ}34\frac{1}{2}' \end{array}$$

243'

536

S 40° E

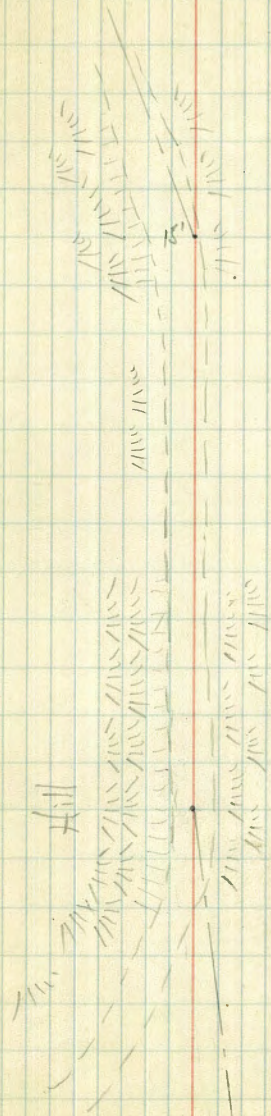
9

$$\begin{array}{l} 1^{\circ}46' \\ 3^{\circ}32' \end{array}$$

$$\begin{array}{r} 13.00 \\ 7.64 \\ \hline 536' \end{array}$$

1246

S 42° E



| Sta. | Deflection Lt. Rt. | Red Reading | Dist. | Mag. Bearing |
|------|-----------------------|----------------|-------|-----------------|
|------|-----------------------|----------------|-------|-----------------|

11

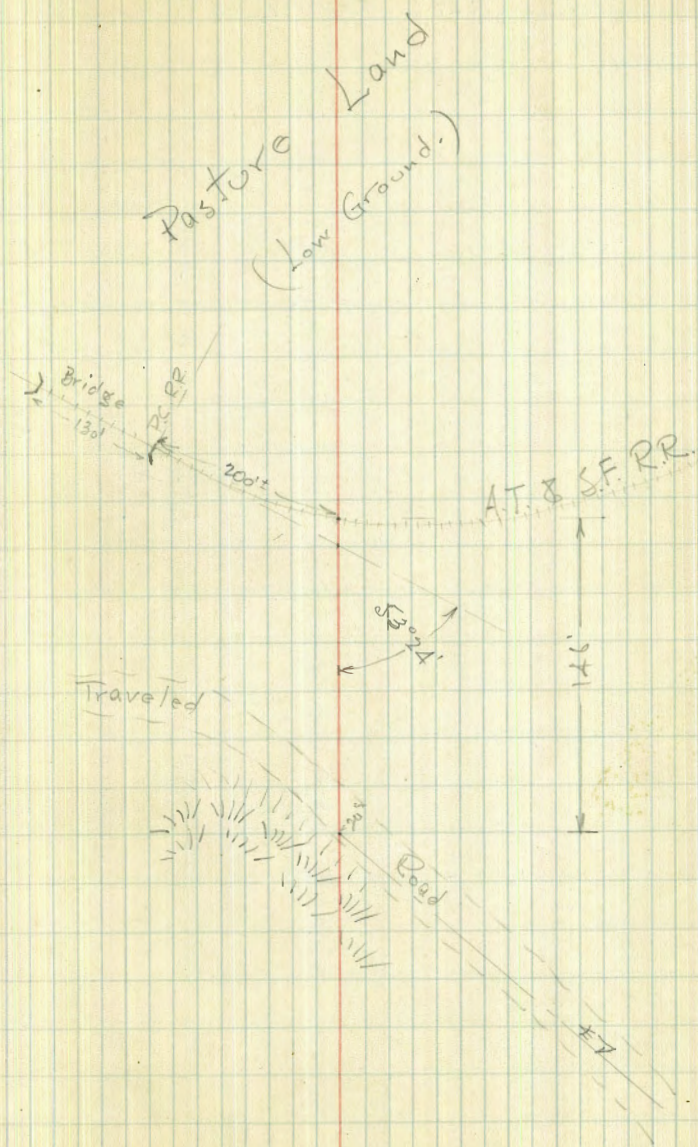
| |
|-------|
| 13.00 |
| 7.54 |
| 5.46 |
| 10.92 |

1092

S 1° W

243

S 45 1/2° E



| Sta | Deflection Lt. | Deflection Rt. | Rod Reading | Dist. | Max. Bearing |
|-----|----------------|----------------|-------------|-------|--------------|
|-----|----------------|----------------|-------------|-------|--------------|

13

P.O.T.

| |
|-------|
| 13.00 |
| 6.82 |
| 7.18 |
| 14.31 |

732

S 60° E

12

| |
|----------|
| 61° 25' |
| 122° 50' |

| |
|------|
| 7.00 |
| 3.34 |
| 3.66 |
| 7.34 |

S 11° W

Cultivated Land

Pasture

7

| Sta | Deflection | | Rod Reading | Dist | Mag. Bearing |
|-----|------------|-----|-------------|------|--------------|
| | Lt. | Rt. | | | |

15

| | |
|--------|-------------|
| 10°31' | 13.00 |
| 21°02' | <u>1.71</u> |
| | 11.29' |

857'

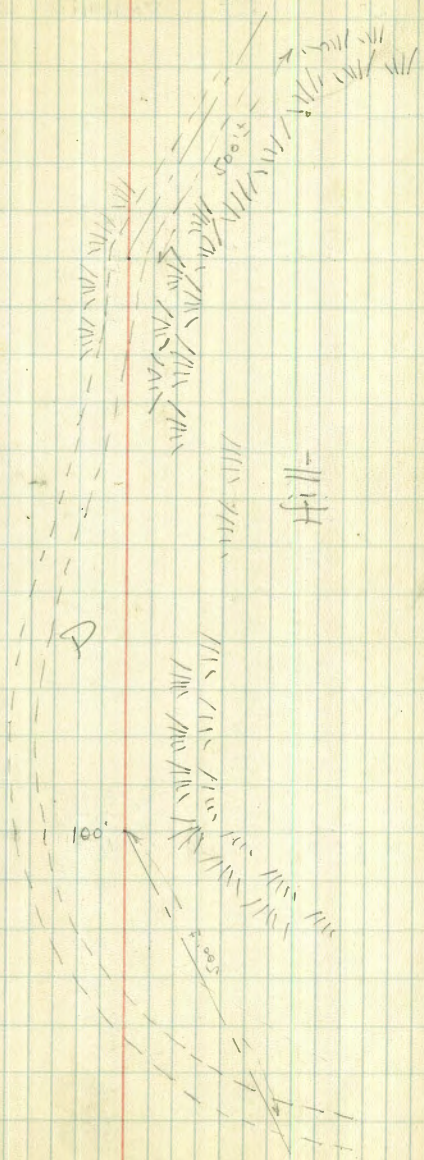
S 41° E

14

| | |
|--------|-------------|
| 19°36' | 13.00 |
| 39°12' | <u>4.13</u> |
| | 8.57' |

1436'

8



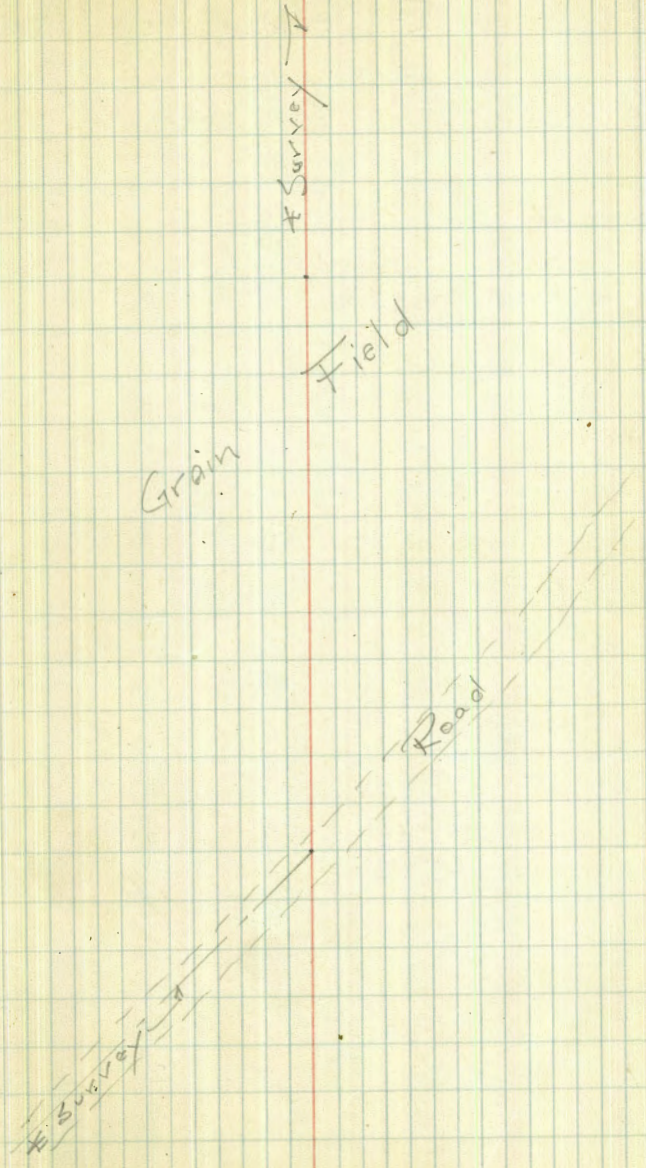
Sta. Deflection Lt. Rt. Rod Reading Dist. Mag. Bearing.

17 P.O.T. $\frac{13.00}{5.61}$ 7.39 1478' N 71° E

1071'

16 $40^{\circ}16'$ $80^{\circ}33'$ $\frac{13.00}{2.79}$ 10.71 S 30° E

1129'



| Sta. | Deflection Lt Rt | Rod Reading | Dist. | Mag. Bear. |
|------|---------------------|----------------|-------|---------------|
|------|---------------------|----------------|-------|---------------|

19

| | | | | |
|--|--|--|-----|---------|
| | | | 87' | S 38° E |
|--|--|--|-----|---------|

18

| | |
|---------|-----|
| 32° 42' | 87' |
| 65° 23' | |

| | | | | |
|-------|---|---|--|---------|
| 1478' | X | X | | S 71° E |
|-------|---|---|--|---------|

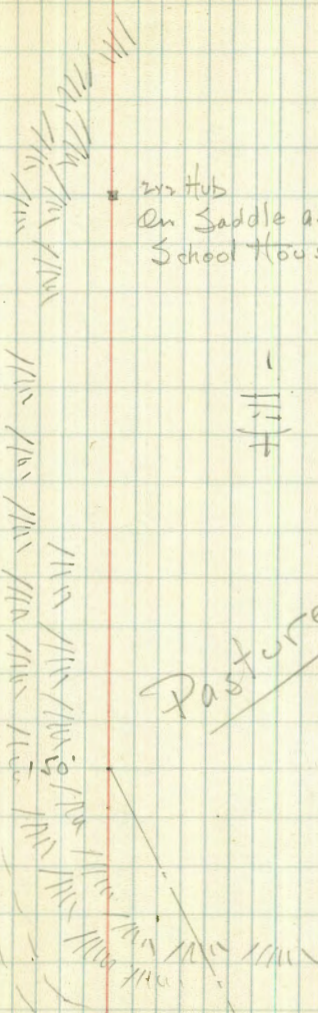
Bottom Land

Traveled Road

Pasture

2nd Hub
on Saddle above Sorrento
School House -

Hill -



Sta. Azimuth Mag.
Single Double Bearing

S+56²⁵
P.O.T.

16
N 16°

0+00

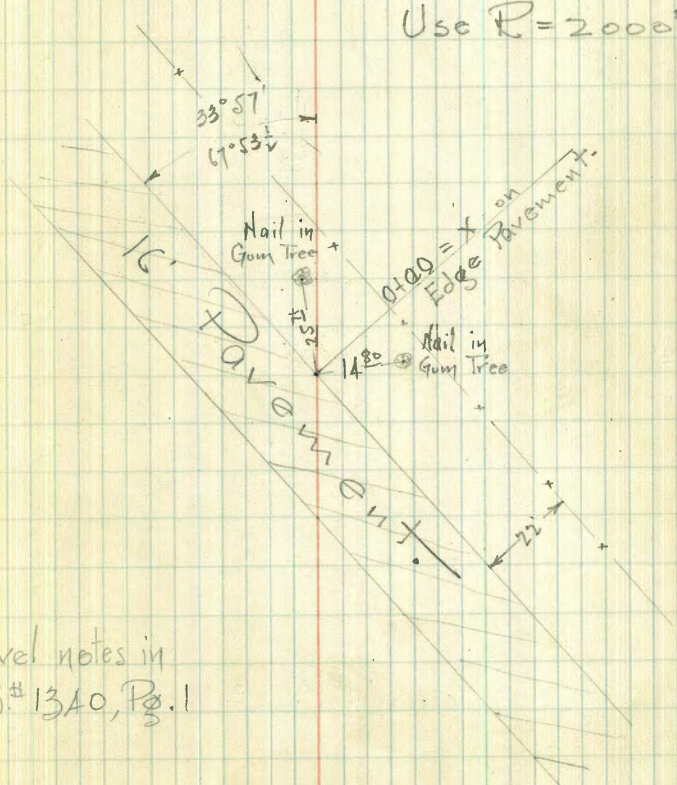
Preliminary Survey of
"A" LINE (Government Canyon)
SOLEDAD VALLEY ROUTE.

Apr. 1929 { Coote
Osborne
Hilbourne
Remmen



Grain. Field
Set 2x2 Hub

Use R=2000'



Level notes in
FB#1340, Pg. 1

| Sta | Azimuth Sgl. | Mag- Dbl. | Bearing- |
|-----|-----------------|--------------|----------|
|-----|-----------------|--------------|----------|

| | | | |
|---------------------|---------|---------|--|
| 22+36 ⁰⁰ | 154°25' | 308.49' | |
|---------------------|---------|---------|--|

$A = 25^{\circ}35' Lt$
Use $R = 2000'$

Note:
Azimuths turned
clockwise from back sight-

Gram Field-

N 16 E

12+36²⁶
R.O.T.

Set 2x2 Hub

Grove Gum Trees - D=6'±
8' Ctrs both ways

17+20

10+80

Level Notes in Book # 1340, Pg. 1

| Sta- | Azimuth Sgl. | Dbt. | Mag- |
|------|-----------------|------|------|
|------|-----------------|------|------|

| | | | |
|---------------------|----------|-------------|--|
| 32+65 ⁰⁰ | 209° 03' | 118° 06 1/2 | |
|---------------------|----------|-------------|--|

$\Delta = 29^{\circ} 03' \text{ Rt.}$

| | |
|---------------------|--------|
| 24+56 ⁰⁰ | P.O.T. |
|---------------------|--------|

Straighten alignment
and use $R = 1500'$

15

Set 2x2 hub

50'

Draw

31+80

15'

30+00

Pasture

Set 2x2 hub

23+60

Grain

Field

| Sta. | Azimuth | Sgl. | Dbl. | Mag. |
|------|---------|------|------|------|
|------|---------|------|------|------|

| | | | | |
|---------------------|---------|------|---------|---|
| 42+00 ⁰⁰ | 214°16' | 360° | +68°33' | X |
|---------------------|---------|------|---------|---|

A = 34°16' R.

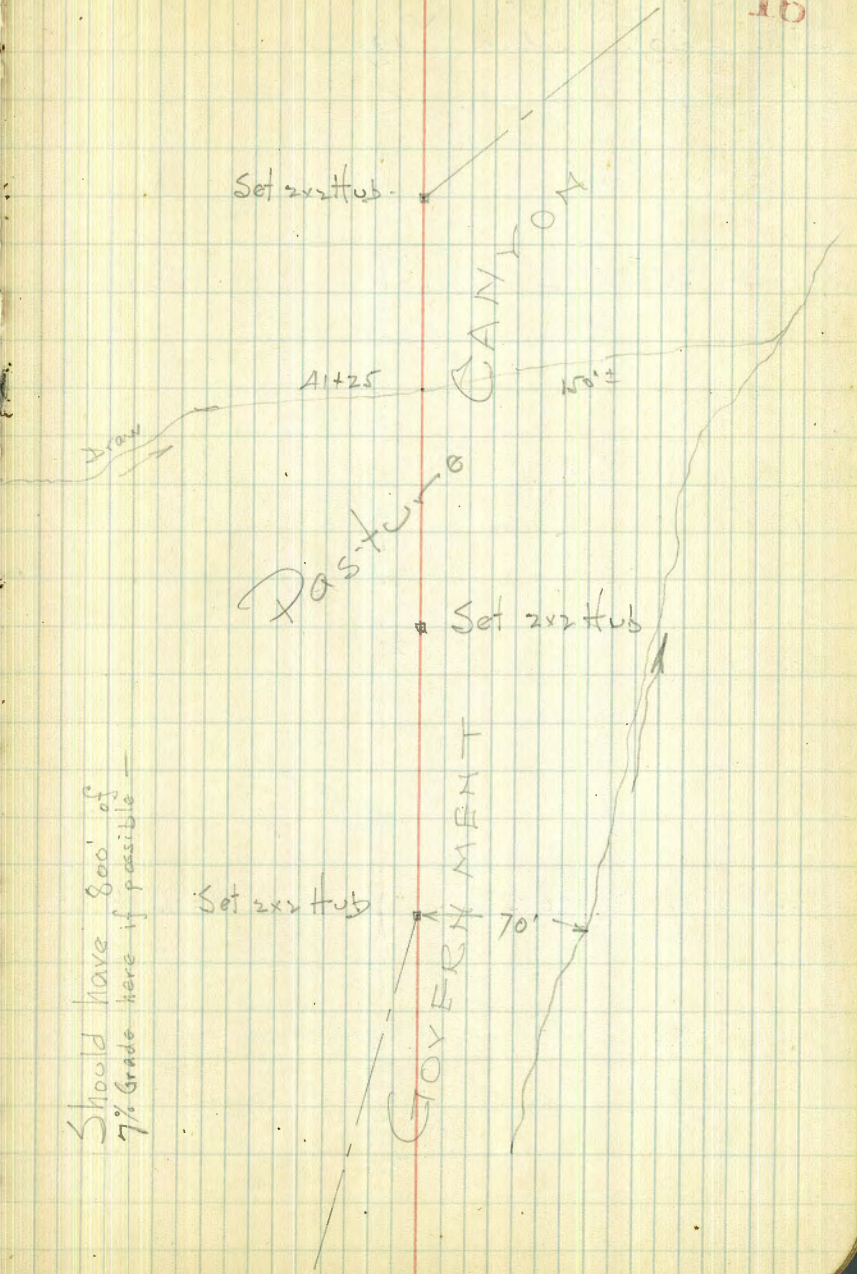
39+47⁴⁵ P.O.T.

N 5 E

| | | | | |
|---------------------|---------|------|---------|---|
| 35+76 ⁴⁵ | 165°23' | 330° | 46 1/2' | X |
|---------------------|---------|------|---------|---|

A = 14°37' Lt.

N 20° E



Should have 800' of 7% grade here if possible

| Sta. | Sgl. | Azimuth Dbl. | Mag. |
|------|------|-----------------|------|
|------|------|-----------------|------|

| | | | |
|---------------------|----------|----------|--|
| 48+90 ⁰⁰ | 170° 18' | 340° 36' | |
|---------------------|----------|----------|--|

$\Delta = 9^\circ 12' \text{ Lt.}$

N 50° E

| | | | |
|---------------------|----------|----------------------|--|
| 44+23 ³⁷ | 190° 08' | 360° +20° 16' 30" | |
|---------------------|----------|----------------------|--|

$\Delta = 10^\circ 08' \text{ Lt.}$

N 40° E

Pasture

1000' Radius curve
is maximum can be used here.
Should be R=800'

43+10

Draw →

Sta. Azimuth
Sgl. Dbl. Mag.

61+67.70 169°29' 338°57½'

$\Delta = 10°31' Lt.$

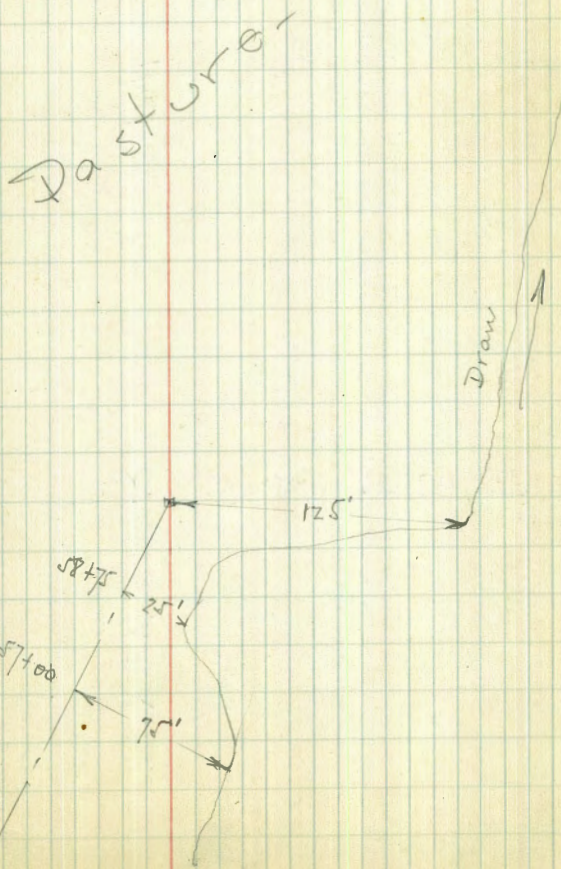
N 8½° E

60+04.70 151°43' 303°26'

$\Delta = 28°17' Lt.$

N 37° E

18



| Sta | Azimuth | Mag. |
|---------------------|--------------------|---------------|
| P.I.# 15 | Sgl. Dbl. | |
| 77+36 ¹² | 194° 14' + 28' 28" | L = 14° 14' ⊕ |

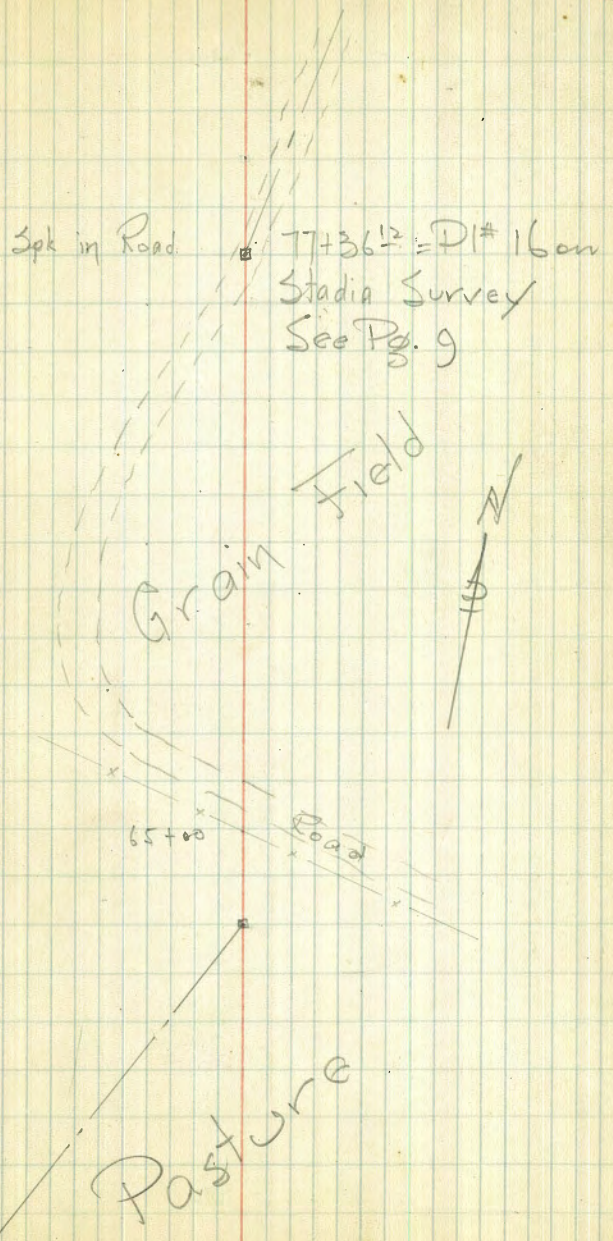
N 30° W

N 45° W

N 20° W

| | | |
|---------------------|-------------------|-----------------|
| 63+57 ³² | 137° 32' 275° 03' | L = 42° 28' Lt. |
|---------------------|-------------------|-----------------|

Note: If this route is adapted the line should run from Sta 63+57³² to P.I.# 15



Azimuth
 Station- Single Double Magnetic

N 12° W

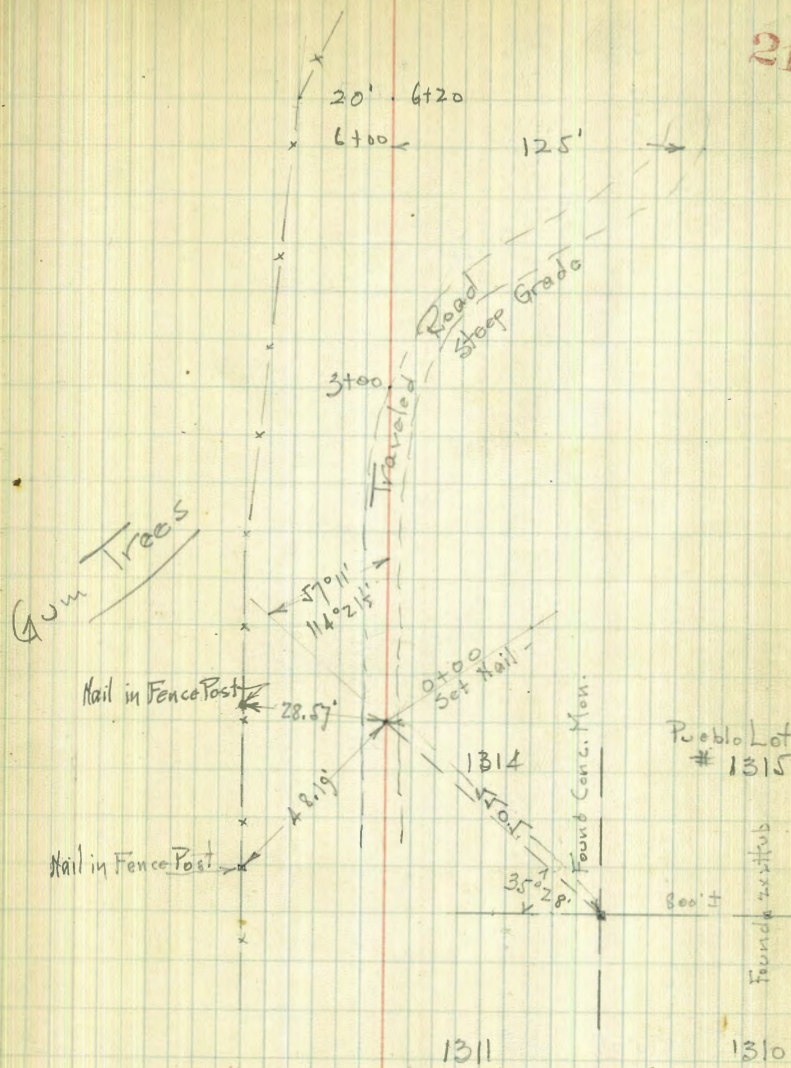
0+00

SOLEDAD VALLEY ROUTE.
 Preliminary Survey of

B LINE
 (SORRENTO CANYON)

Marine Camp to Sorrento School

May 1929 { Coote
 Osborne
 Hilbourne
 Remmen



Level notes in
 F.B. #1310, Pg. 13

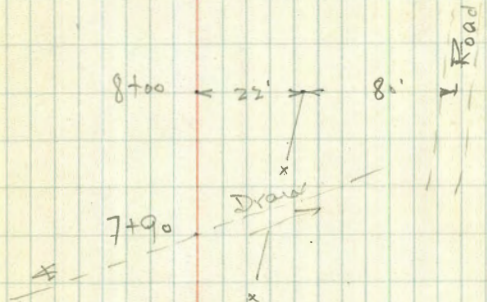
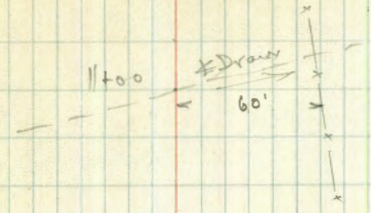
| Sta. | Azimuth Sgl. | Dbl. | Mag. |
|------|-----------------|------|------|
|------|-----------------|------|------|

| | | | |
|---------|--|--------|--|
| 9+73.28 | | P.O.T. | |
|---------|--|--------|--|

N 13° W

| | | | |
|---------|----------|-----------|--|
| 6+52.7° | 179° 26' | 38° 52.1' | |
|---------|----------|-----------|--|

$l = 0^{\circ} 34' 41''$



6+52.7°
Set 2x2 tub.

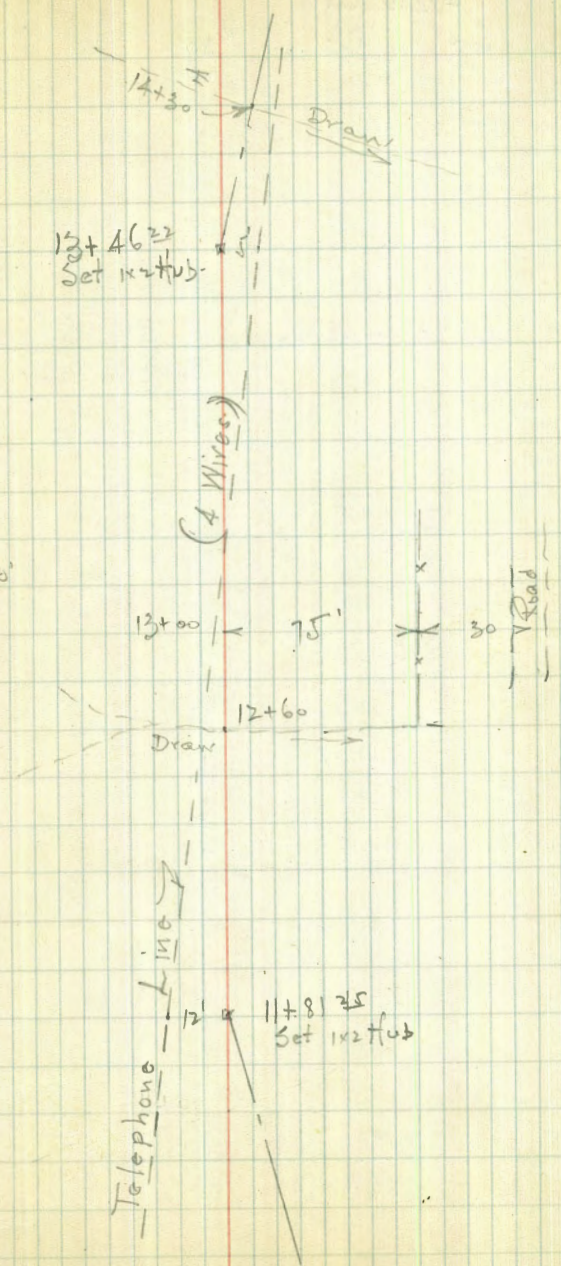
Brush

Brush

| Sta | Azimuth Sgl. | Dbl. | Mag. | |
|---------------------|-----------------|---------|------|-------------------------------------|
| 13+46 ²² | 193°23' | +26.46' | | $\Delta = 13^{\circ}23' \text{ R.}$ |

| | | | | |
|---------------------|---------|---------|--|-------------------------------------|
| 11+81 ²⁵ | 197°35' | +35.11' | | $\Delta = 17^{\circ}35' \text{ R.}$ |
|---------------------|---------|---------|--|-------------------------------------|

15.6

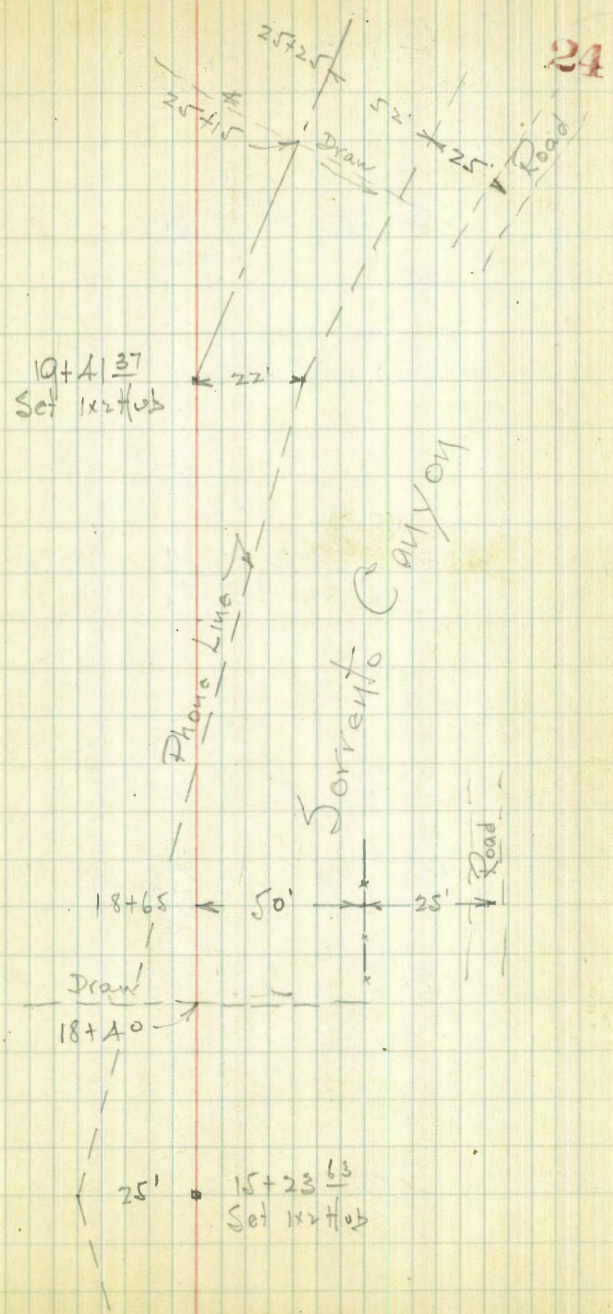


Sta Azimuth Sgl. Dbl. Mag-

19+41 ³⁷ 204°28' + 48°56' $\Delta = 24°28'$ R.

N 18° E

15+23.63 P.O.T.



| Sta. | Azimuth Sgl. | Dbl. | Mag- |
|------|-----------------|------|------|
|------|-----------------|------|------|

| | | | |
|----------|--------|--|---------|
| 28+85.78 | P.O.T. | | N 22° E |
|----------|--------|--|---------|

| | | | |
|----------|----------|----------|--|
| 27+90.3° | 159° 36' | 319° 11' | |
|----------|----------|----------|--|

N 42° E

| | | | |
|--------|--------|--|--|
| 26+05° | P.O.T. | | |
|--------|--------|--|--|

28+85.78
Set 1x2 Hub

Sand Stone Outcroppings

Shift line uphill
to make smaller Δ

$\Delta = 20' 24" Lt.$

27+90.3°
Set 1x2 Hub

Brush

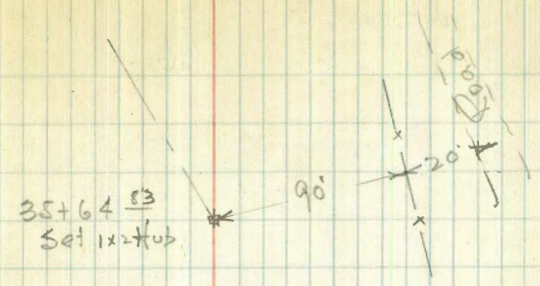
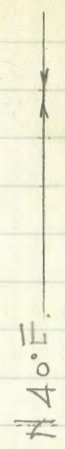
27+25

26+05° 30'
Set 1x2 Hub

| Sta | Azimuth Sgl. | Dbl. | Mag. |
|-----|-----------------|------|------|
|-----|-----------------|------|------|

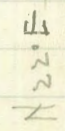
| | | | |
|---------------------|---------|---------|--|
| 35+64 ⁸³ | 166°15' | 332°30' | |
|---------------------|---------|---------|--|

$\Delta = 13^{\circ}45' \text{ Lt.}$

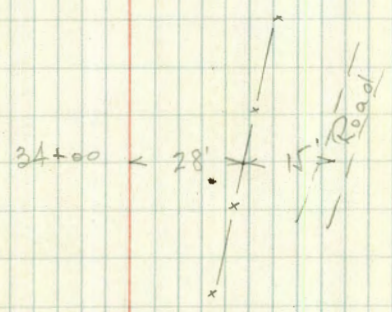


| | | | |
|---------------------|---------|-----------------------|--|
| 31+39 ⁹⁰ | 197°44' | 35°27' ^{1/2} | |
|---------------------|---------|-----------------------|--|

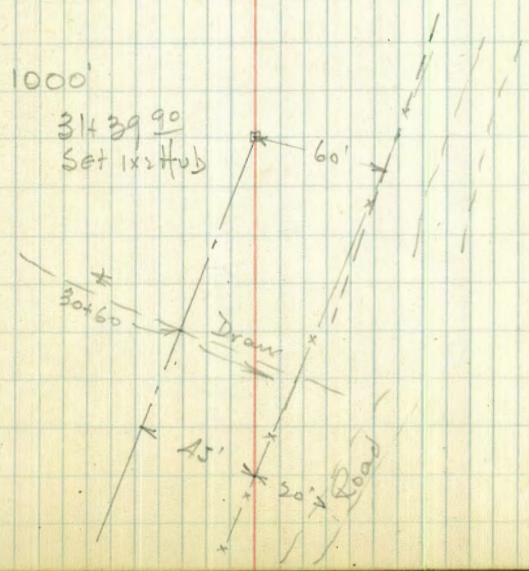
$\Delta = 17^{\circ}44' \text{ R.}$



Use $R = 1000'$



31+39⁹⁰
Set ix Hub



Sta Azimuth Sgl. Dbl. Mag.-

44+53.87 P.O.T.

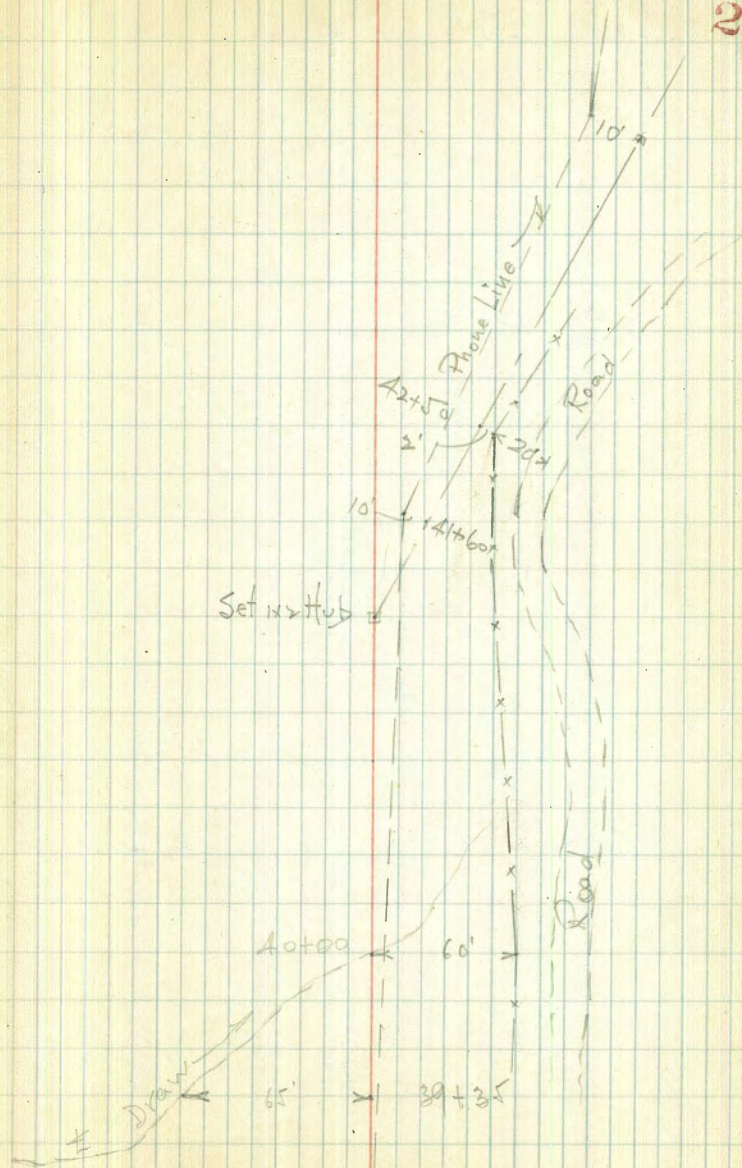
N 54° E

40+77.24 207° 40' +55° 19' $\frac{1}{2}$

L = 27° 40' P.

N 26° E

27



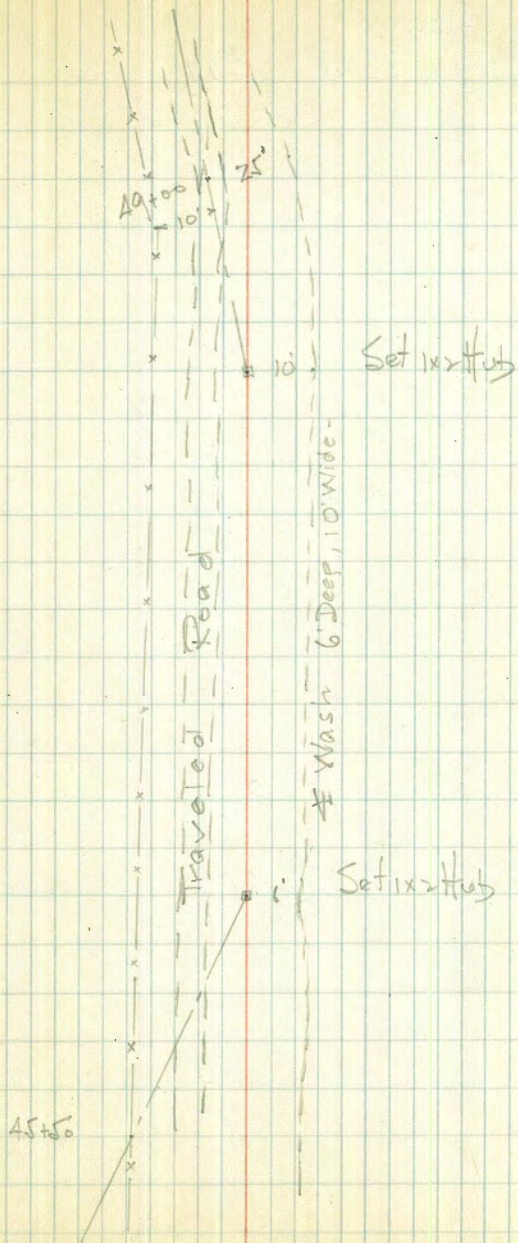
| Sta. | Azimuth Sgl. | Dbl. | Mag. |
|------|-----------------|------|------|
|------|-----------------|------|------|

28

| | | | |
|---------------------|---------|----------------------|----------------|
| 47+16 ⁹⁰ | 163°23' | 326°45' ₂ | A = 16°37' Lt. |
|---------------------|---------|----------------------|----------------|



| | | | |
|---------------------|---------|---------|----------------|
| 46+07 ⁸⁰ | 153°06' | 306°13' | A = 26°54' Lt. |
|---------------------|---------|---------|----------------|



| Sta | Azimuth Sgl. | Dbl. | Mag. |
|-----|-----------------|------|------|
|-----|-----------------|------|------|

29

54+53⁵⁵

P.O.T.

N 22 1/2° W

56+00

27'

55+00

53+50

* Distance

52+48 =

147° 19'

294° 37 1/2"

$\Delta = 32^\circ 41' L$

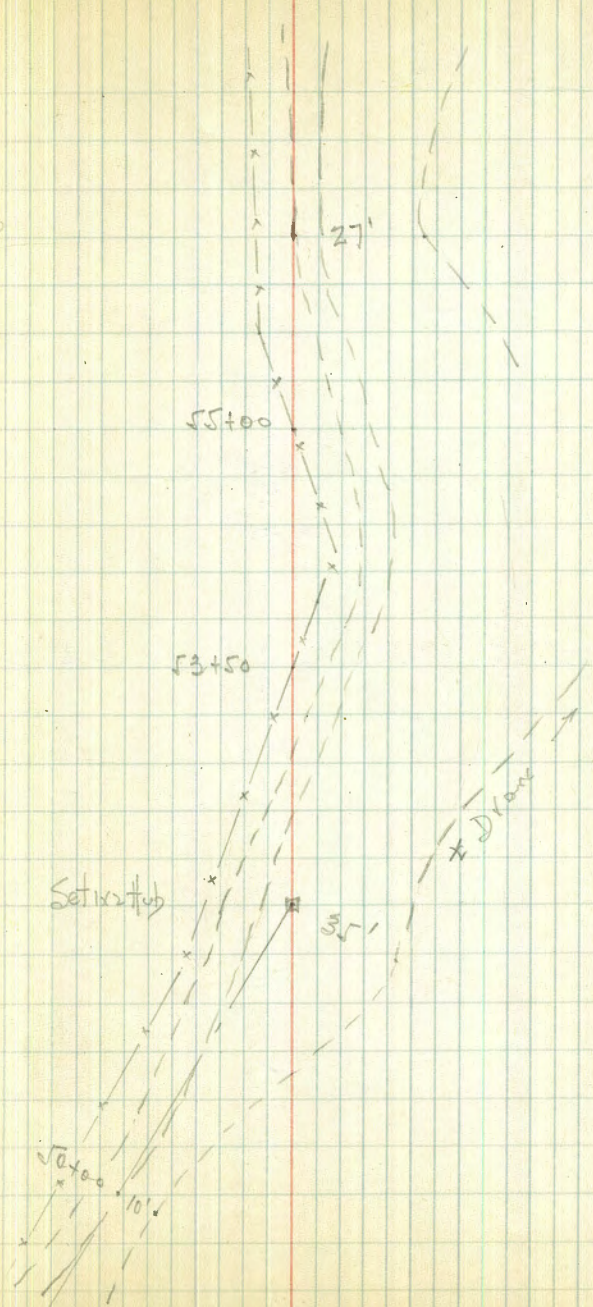
Setixatub

35'

N 10° E

50+00

10'

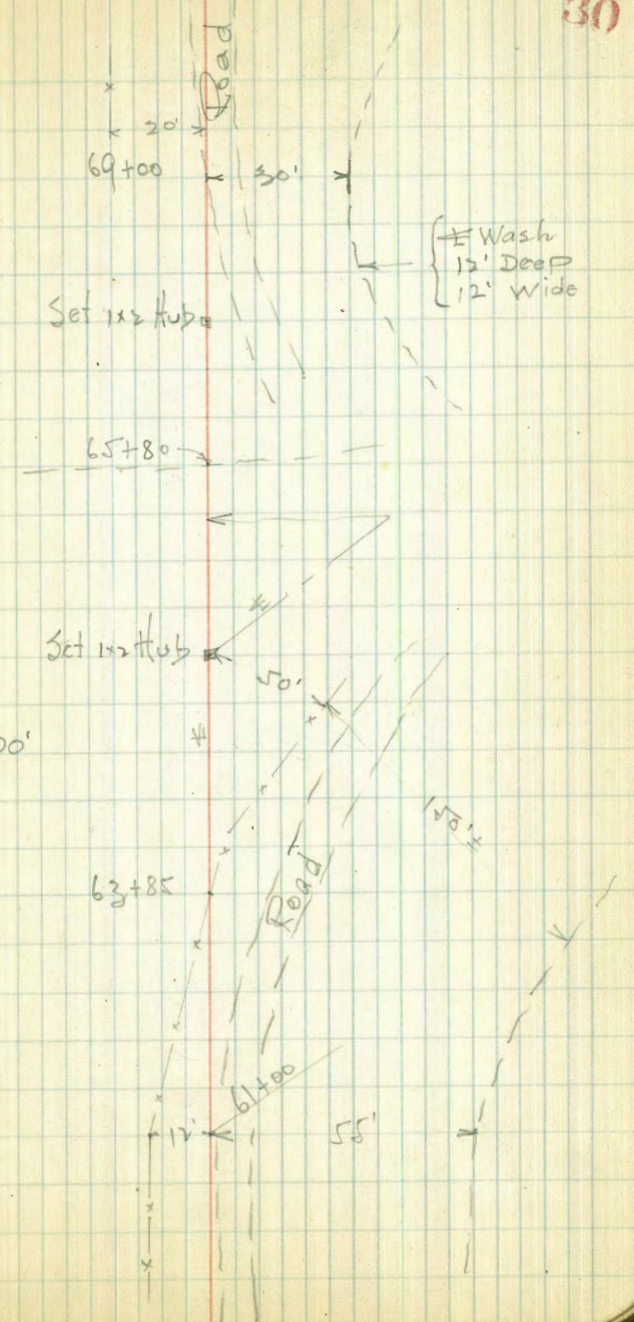
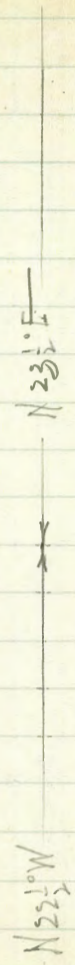


Sta Azimuth Mag.
 Seg. Dbl.

66+57¹⁸ P.O.T.

65+15⁶⁵ 226°28' +92.57'

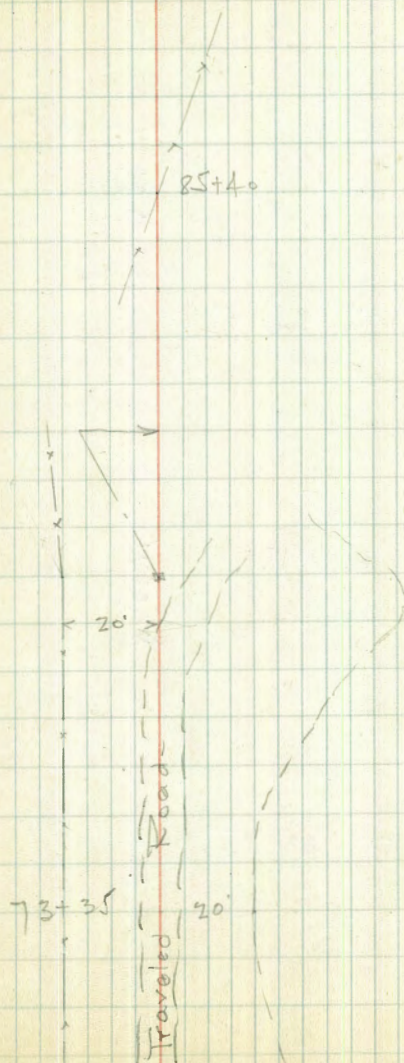
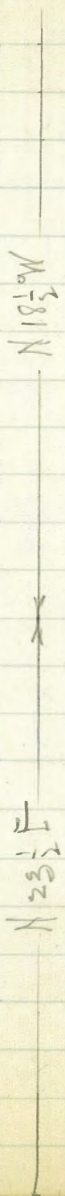
$\angle = 16^{\circ}28' \text{ R.L.}$



| Sta | Azimuth | Sgl. | Db. | Mag. |
|-----|---------|------|-----|------|
|-----|---------|------|-----|------|

| | | | | |
|--------|---------|---------|--|--|
| 84+27° | 137°51' | 275°45' | | |
|--------|---------|---------|--|--|

A = 42°09' Lt.



| Sta | Azimuth | Sgl. | Dbl | Mag. |
|-----|---------|------|-----|------|
|-----|---------|------|-----|------|

PI #18
See Pg. 10

N 38° W

96+54.30
(PI #19)

174° 07' 348° 13 1/2'

L = 5° 53' Lt.

Set 1/2 Hub

90+00

P.O.T.

N 33° W

Set 1/2 Hub

Grain Field

86+88.00

165° 53' 331° 45'

L = 14° 07' Lt.

Set 1/2 Hub

N 18 1/2° W

Use R = 1500'

Produce back tangent, (84+27 = Ahead)
+ shift forward tangent
to fit topography.

For Stadia Line See Pgs 1 to 10 this book.

Pasture

Cross Section

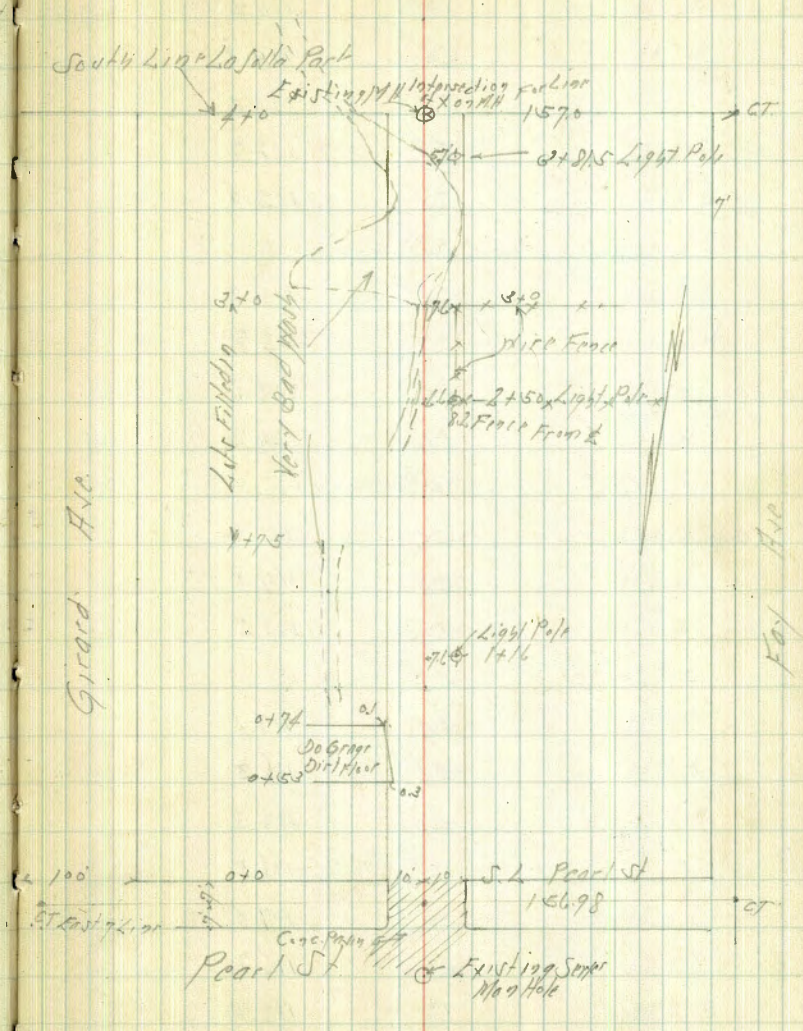
Alley Block 7 LaSalle Park
Between Fay & Girard From Pearl St 400 South

20' wide cut

| BM | 5.54 | 120.59 | 115.05 | SE 8 P Pearl & Girard |
|-------------------------|-------|--------|-------------------------|--------------------------|
| Flow Line, Mt. of Pearl | | 16.53 | $\frac{120.59}{104.06}$ | |
| S Cb Line of Pearl | | | | |
| E on Paring | 9.84 | | 110.75 | |
| S | 10.03 | | 110.56 | |
| N | 10.23 | | 110.36 | |
| S Line Pearl | | | | |
| N Topcb | 9.25 | | 111.34 | |
| N Gutter on Pav | 9.47 | | 111.12 | |
| S " " | 9.62 | | 110.93 | |
| E Gutter " " | 9.28 | | 111.31 | |
| E Topcb | 8.88 | | 111.71 | |
| 2' S of S.L. Pearl | | | | |
| E | 9.1 | | 111.5 | |
| S | 9.4 | | 111.2 | |
| +9 | 8.8 | | 111.8 | |
| N | 7.4 | | 113.2 | |
| 10' S of S.L. Pearl | | | | |
| N | 6.9 | | 113.7 | |
| +4 | 8.4 | | 112.2 | |
| S | 8.6 | | 112.0 | |
| +9 | 8.4 | | 112.2 | |
| E | 7.6 | | 113.0 | |

8-22-30

June 11-31
Sisson
McHugh
Northrup **33**



120.59

25 S of S L Pearl

| | | 120.6 |
|----|-----|-------|
| F | 6.4 | 114.2 |
| +3 | 6.5 | 114.1 |
| +5 | 7.4 | 113.2 |
| L | 7.9 | 112.7 |
| H | 7.3 | 113.3 |

53 S = Nly of DeGregori on L

| | | |
|---------------------------------|-----|-------|
| H | 6.4 | 114.2 |
| L | 6.7 | 113.9 |
| +9.7 = Nly of DeGregori on L | 6.0 | 114.6 |
| F | 6.0 | 114.6 |

74 S = Sth of DeGregori on L

| | | |
|-------------|-----|-------|
| F 2nd Floor | 5.6 | 115.0 |
| L | 5.8 | 114.8 |
| H | 5.1 | 115.5 |

100 S

| | | |
|-------------------|-----|-------|
| H | 3.5 | 117.1 |
| +3 | 4.3 | 116.3 |
| L | 4.3 | 116.3 |
| +9 | 4.1 | 116.5 |
| F | 3.6 | 117.0 |
| +15 | 3.9 | 116.7 |
| +26 = Bottom Mark | 2.2 | 112.4 |

125 S

| | | |
|-------------------|-----|-------|
| -25 = Bottom Mark | 7.1 | 113.5 |
| -32 | 4.8 | 115.8 |

120.59

| | | 120.6 |
|---|-----|-------|
| F | 3.4 | 117.2 |
| L | 3.2 | 117.4 |
| H | 3.2 | 117.4 |

150 S

| | | |
|-------------------|-----|-------|
| H | 1.9 | 118.7 |
| H | 2.3 | 118.3 |
| L | 2.3 | 118.3 |
| +7 | 2.5 | 118.1 |
| F | 3.2 | 117.4 |
| +39 | 4.5 | 116.1 |
| +30 = Bottom Mark | 6.5 | 114.1 |

TP 6.15 126.55 0.19

| | | |
|-----|-------|--------|
| | | 120.40 |
| | 175 S | 126.6 |
| -20 | 9.2 | 117.4 |
| -10 | 8.3 | 118.3 |
| F | 7.6 | 119.0 |
| +5 | 7.2 | 119.4 |
| L | 7.1 | 119.5 |
| H | 7.1 | 119.5 |

200 S

| | | |
|-----|-----|-------|
| H | 6.4 | 120.2 |
| L | 6.4 | 120.2 |
| F | 6.3 | 120.3 |
| +20 | 5.3 | 121.3 |

34

126.55

225°

| | | 126.6 |
|------|----|-------|
| -20' | 49 | 121.7 |
| -5 | 54 | 121.2 |
| L | 63 | 120.3 |
| +6 | 68 | 119.8 |
| L | 58 | 120.8 |
| +4 | 52 | 121.4 |
| H | 49 | 121.7 |

250°S

| | | |
|-----|----|-------|
| H | 46 | 122.0 |
| +4 | 51 | 121.5 |
| L | 64 | 120.2 |
| +8 | 64 | 120.2 |
| L | 54 | 121.2 |
| +2 | 46 | 122.0 |
| +20 | 40 | 122.6 |

275°S

| | | |
|-----|----|-------|
| -20 | 38 | 122.8 |
| L | 41 | 122.5 |
| +3 | 53 | 121.6 |
| L | 59 | 120.7 |
| +4 | 49 | 121.7 |
| +8 | 41 | 122.5 |
| H | 38 | 122.8 |

126.55

300°S

| | | 126.6 |
|-----|-------------------|--------|
| -10 | 35 | 123.1 |
| H | 37 | 122.9 |
| L | 50 | 121.6 |
| +4 | 45 | 122.1 |
| L | 47 | 121.9 |
| +20 | 57 | 120.9 |
| TP | 11.05 133.99 3.61 | 122.94 |

325°

| | | 126.6 |
|-----|-----|-------|
| -20 | 115 | 122.5 |
| L | 111 | 122.9 |
| L | 118 | 122.2 |
| H | 117 | 122.3 |
| +20 | 97 | 124.3 |

350°S

| | | |
|-----|-----|-------|
| -20 | 83 | 125.7 |
| H | 106 | 123.4 |
| L | 100 | 123.0 |
| L | 100 | 128.0 |
| +20 | 77 | 126.3 |

375°S

| | | |
|-----|-----|-------|
| -20 | 92 | 124.8 |
| -6 | 102 | 123.8 |
| L | 94 | 124.6 |
| L | 98 | 124.2 |
| H | 82 | 125.8 |

35

13399

134.0

| | | | |
|-------------------|--------|------|-------|
| +20 | | 7.2 | 126.7 |
| | 385' J | | |
| -20 | | 6.8 | 127.2 |
| H | | 7.2 | 126.8 |
| +4 | | 7.8 | 126.2 |
| $\frac{1}{2}$ | | 9.7 | 124.3 |
| F | | 9.1 | 124.9 |
| +8 | | 8.8 | 125.2 |
| +15 - Bottom Mark | | 10.1 | 123.9 |

400' J = S.L. La Jolla Park

| | | | |
|--------------------|--|-------|--------|
| -36 - Bottom Mark | | 9.2 | 124.8 |
| -15 | | 8.2 | 125.8 |
| -14 | | 6.2 | 127.8 |
| F | | 6.2 | 127.8 |
| $\frac{1}{2}$ - MH | | 5.3 | 128.7 |
| on Rim MH | | 4.7 | 129.02 |
| " Flot Line | | 15.15 | 118.84 |
| H | | 5.0 | 129.0 |
| +20 | | 5.4 | 128.6 |

450' J

| | | | |
|-------------------|--|-----|-------|
| H | | 3.9 | 130.1 |
| $\frac{1}{2}$ | | 3.5 | 130.5 |
| F | | 2.8 | 131.2 |
| +25 | | 2.8 | 131.2 |
| +15 - Bottom Mark | | 8.1 | 125.9 |

36

13399

| | | | | | |
|------|------|--------|-------|--------|-----------------------|
| TP | 0.45 | 126.30 | 814 | 125.85 | B.P.S.F. |
| B.V. | | | 11.24 | 115.06 | Pack & Guard 11505 |

364

| | | |
|------------|------|-------|
| L on Pavio | 5.58 | -1.94 |
| L Gutter | 5.20 | -1.56 |
| E TopCb | 4.38 | -0.71 |

150.5

| | | |
|-----------------|------|-------|
| E TopCb | 4.36 | -0.72 |
| Gutter on Pavio | 5.19 | -1.55 |
| L TopCb | 4.37 | -0.73 |
| Gutter | 5.90 | -2.26 |
| H on Pavio | 5.20 | -1.56 |
| H TopCb | 4.35 | -0.71 |

38

Levels on U.S. Govt Dyke
S. side S. D. River - Causeway East.
Stations Along N. Edge Top of Dyke
U.S. Coast & Geodetic Datum

indexed.
ESK

| | | | |
|------------------------------------|------|-------|-------|
| RM. Man | 2.41 | 18.41 | 16.00 |
| 0+00 = E. el. line Causeway | 1.82 | 7.70 | 7.58 |
| 1+17 = N. Rail N. Track S.D.E.R.R. | 1.76 | 7.64 | |
| | 1+80 | | |
| N. edge Top Dyke | 2.0 | 7.40 | |
| 12' RT | 2.0 | 7.40 | |
| 27' " | 8.3 | 1.10 | |
| 12' Lt. | 8.4 | 0.8 | |
| | 4+00 | | |
| N. edge Top Dyke | 1.9 | 7.5 | |
| 13' RT | 2.0 | 7.4 | |
| 29' " | 8.0 | 1.4 | |
| 12' Lt. | 8.8 | 0.6 | |
| | 6+00 | | |
| N. edge Top Dyke | 2.0 | 7.4 | |
| 12' RT | 2.0 | 7.4 | |
| 27' " | 8.0 | 1.4 | |
| 12' Lt. | 8.8 | 0.6 | |
| | 8+00 | | |
| N. edge Top Dyke | 1.5 | 7.9 | |
| 12' RT | 1.5 | 7.9 | |
| 27' " | 7.7 | 1.7 | |
| 11' Lt. | 8.6 | 0.8 | |

12-26-21
Miller
Walker
Bliss

8' E. E. line Midway

on U.S. Dyke

on curb

N. Edge Top Dyke

12' RT

28' "

13' Lt.

N. edge Top Dyke

12' RT

28' "

12' Lt.

T.P.

N. Edge Top Dyke

13' RT

25' "

10' Lt.

N. edge Top Dyke

13' RT

27' "

11' Lt.

N. edge Top Dyke

14' RT

27' "

11' Lt.

~~18.41~~ 9.90

10+00

1.3

1.3

7.6

8.0

12+00

1.2

1.2

7.6

7.6

4.71

~~26.93~~

12.31

14+00

1.20

17.21

4.8

4.8

10.8

10.4

16+00

4.6

4.6

11.4

10.0

18+00

4.6

4.6

10.1

10.4

8.1

8.1

1.8

1.4

8.2

6.2

1.8

1.8

8.1

8.1

2.1

2.5

8.3

8.3

1.5

2.91

8.3

8.3

2.8

2.5

39

~~21.72~~ 12.91

20+00

| | | |
|------------------|------|------|
| N. Edge Top Dyke | 4.2 | 8.7 |
| 20' RT. | 4.2 | 8.7 |
| 29' RT. | 11.0 | 1.91 |
| 12' Lt. | 10.3 | 2.6 |

22+00

| | | |
|------------------|------|------|
| N. edge Top Dyke | 4.0 | 8.91 |
| 16' RT. | 4.0 | 8.91 |
| 29' RT. | 11.0 | 1.91 |
| 10' Lt. | 9.7 | 3.2 |

T.P. 5.34

~~23.86~~

14.25

14.25

3.90 18.02

| | | |
|------------------|------|-----|
| N. edge Top Dyke | 5.4 | 9.0 |
| 14' RT. | 5.4 | 9.0 |
| 29' RT. | 12.2 | 2.2 |
| 10' Lt. | 10.5 | 3.9 |

26+00

| | | |
|------------------|------|-----|
| N. edge Top Dyke | 4.8 | 9.6 |
| 16' RT. | 4.8 | 9.6 |
| 32' RT. | 12.1 | 2.3 |
| 11' Lt. | 10.1 | 4.3 |

28+00

| | | |
|------------------|------|-------|
| N. edge Top Dyke | 4.4 | 10.10 |
| 15' RT. | 4.4 | 10.0 |
| 30' RT. | 12.2 | 2.2 |
| 12' Lt. | 10.0 | 4.35 |

CHK. BM. RR. SPK S.D. C.G. + E. Pol. C. 745 11.67 11.69 = 11.68

U.S. Govt. Dyke

~~23.56~~ 19.35

30+00

| | | |
|------------------|------|------|
| N. Edge Top Dyke | 4.4 | 10.0 |
| 17' RT. | 4.4 | 10.0 |
| 35' RT. | 13.0 | 1.35 |
| 12' Lt. | 10.0 | 4.35 |

32+00

| | | |
|------------------|------|-------|
| N. edge Top Dyke | 4.0 | 10.35 |
| 17' RT. | 4.0 | 10.35 |
| 35' RT. | 12.5 | 1.9 |
| 10' Lt. | 9.8 | 4.6 |

34+00

| | | |
|------------------|------|------|
| N. edge Top Dyke | 4.1 | 10.3 |
| 17' RT. | 4.1 | 10.3 |
| 35' RT. | 12.5 | 1.9 |
| 10' Lt. | 9.5 | 4.9 |

T.P. 4.60

~~24.87~~

15.06

15.06

3.89 19.47

| | | |
|------------------|------|-------|
| N. edge Top Dyke | 4.4 | 10.7 |
| 15' RT. | 4.4 | 10.7 |
| 37' RT. | 12.4 | 2.3 |
| 24' Lt. | 16.0 | - 1.9 |
| 15' Lt. | 10.5 | 4.6 |

38+00

| | | |
|------------------|------|-------|
| N. Edge Top Dyke | 4.0 | 11.1 |
| 16' RT. | 4.0 | 11.1 |
| 39' RT. | 11.4 | 3.7 |
| 13' Lt. | 10.4 | 4.7 |
| 24' Lt. | 16.4 | - 1.3 |

40

~~24.07~~ 15.06

40700

| | | |
|------------------|------|------|
| N. edge Top Dyke | 4.0 | 11.1 |
| 15' RT. | 4.0 | 11.1 |
| 34' RT. | 11.6 | 3.5 |
| 15' LT. | 10.2 | 4.9 |
| 26' LT. | 15.7 | -0.6 |

42400

| | | |
|------------------|------|------|
| N. edge Top Dyke | 3.4 | 11.7 |
| 13' RT. | 3.4 | 11.7 |
| 32' RT. | 11.8 | 3.3 |
| 14' LT. | 10.2 | 4.9 |
| 24' LT. | 17.5 | -2.4 |

43+15 = 33 + 00 from g. Book 1430

T.P.

2.88

901

12.18

21.19 = 21.16

Book 1430

Page 59

U.S. Govt. Dyke

41

indexed
C.S.K.

See Alley BIK. 58. H.M. Higgins
Bet. B+C. from 27th to 28th

4-1-32
Miller
Walker
Bliss

BM 178.05 S.W. 27th C.

B.M. 6.85 203.82 196.97

N.W. 27th
+ B. Sts.

42

E. curbline 27th

| | | |
|------------------|------|--------|
| N. curb ch. | 6.29 | 197.03 |
| N. gutter pavmt. | 7.40 | 196.42 |
| ☐ " " | 7.25 | 196.57 |
| S " " | 7.18 | 196.64 |
| S. curb ch. | 6.60 | 197.22 |

15' E. = E. end. pavmt.

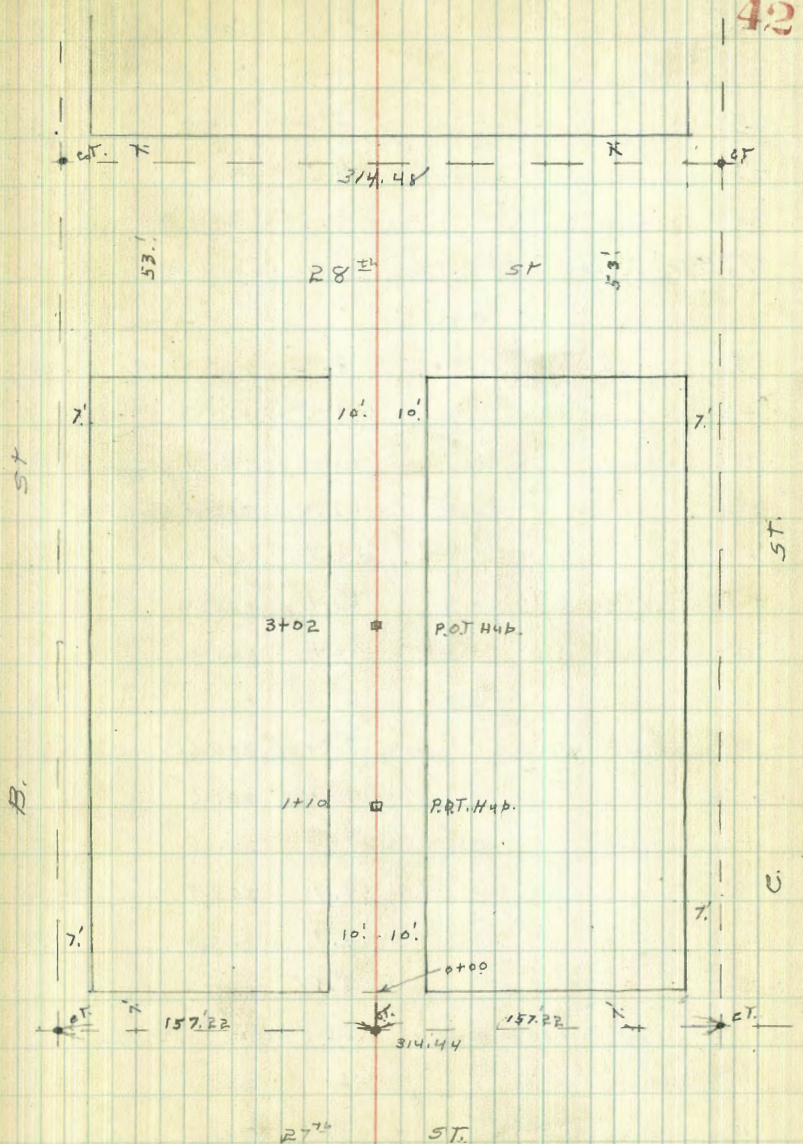
| | | |
|-------------|------|--------|
| S. curb ch. | 6.30 | 197.52 |
| S. pavmt. | 6.54 | 197.28 |
| ☐ " " | 6.85 | 196.97 |
| N " " | 6.64 | 197.18 |
| N. curb ch. | 6.50 | 197.32 |

18' E of E. ch. = E. line 27th = 0+00

| | | |
|----------------------|------|--------|
| N. curb ch + ground. | 6.50 | 197.32 |
| ☐ " " | 6.6 | 197.2 |
| S " " + " | 6.30 | 197.52 |

0+02,

| | | |
|----|-----|-------|
| S | 1.0 | 202.8 |
| +2 | 5.7 | 198.1 |
| ☐ | 6.4 | 192.4 |
| +4 | 6.1 | 197.7 |
| N | 4.4 | 199.4 |



203.82

0+06.

| | | | | |
|------|-------|--------|------|--------|
| N | | | +0.6 | 204.4 |
| +6 | | | 4.3 | 199.5 |
| ± | | | 5.2 | 198.6 |
| +6 | | | 4.5 | 199.3 |
| S | | | +1.1 | 204.9 |
| T.P. | 11.00 | 213.82 | 1.00 | 202.82 |

0+15

| | | | | |
|----|--|--|------|-------|
| S | | | 8.2 | 205.6 |
| +2 | | | 8.3 | 205.5 |
| +4 | | | 12.7 | 201.1 |
| ± | | | 13.0 | 200.8 |
| +4 | | | 11.9 | 201.9 |
| +7 | | | 8.4 | 205.4 |
| N. | | | 8.4 | 205.4 |

0+31

| | | | | |
|----|--|--|-----|-------|
| N | | | 7.2 | 206.6 |
| +2 | | | 7.2 | 206.6 |
| +6 | | | 9.2 | 204.6 |
| ± | | | 9.9 | 203.9 |
| +5 | | | 9.9 | 203.9 |
| S | | | 8.1 | 205.7 |

0+45 garage on s. dirt floor. 0.2 Back

| | | | | |
|---------|--|--|-----|-------|
| S floor | | | 7.7 | 206.1 |
| ± | | | 8.1 | 205.7 |
| +7 | | | 7.5 | 206.3 |
| N | | | 6.6 | 207.2 |

213.82

0+55.

| | | | | |
|----|--|--|-----|-------|
| N | | | 5.4 | 208.0 |
| +2 | | | 6.7 | 207.1 |
| ± | | | 7.1 | 206.7 |
| +8 | | | 6.6 | 207.2 |
| S | | | 5.6 | 208.2 |

0+82 garage on S. dirt floor on line

| | | | | |
|---------|--|--|-----|-------|
| S floor | | | 5.1 | 208.2 |
| ± | | | 5.3 | 208.5 |
| N. | | | 5.0 | 208.8 |

From 0+89.5 to 0+95.5 shed on N. 0.7 in Alley

1+07 garage on S. 21' Back

1+20

| | | | | |
|---|--|--|-----|-------|
| N | | | 5.0 | 208.8 |
| ± | | | 4.9 | 208.9 |
| S | | | 5.0 | 208.8 |

1+53. Pepper Tree 1.0 diam. 0.3 in Alley.

1+65

| | | | | |
|----|--|--|-----|-------|
| S. | | | 5.2 | 208.6 |
| ± | | | 5.2 | 208.6 |
| N | | | 5.1 | 208.7 |

1+91 garage on S. dirt floor 3.5 Back

| | | | | |
|----------------|--|--|------|--------|
| N | | | 6.4 | 207.4 |
| ± | | | 6.8 | 207.0 |
| S | | | 6.7 | 207.1 |
| +2' dirt apron | | | 6.65 | 207.17 |
| +3.5 floor | | | 6.63 | 207.19 |

Alley BIK 58 Higgins

43

213.82

| | | | |
|-------------------------------------------------------|------|--------|--------------|
| 2+00 = W. End Double garage ent. floor 3' Back | | | |
| S - 3' floor | 7.73 | 206.09 | |
| S = Edge ent. apron | 7.75 | 206.05 | |
| 2+21. E. End above garage | | | |
| S - 3' floor | 7.75 | 206.07 | |
| S. on apron | 8.48 | 205.34 | |
| ⊕ | 8.8 | 205.10 | |
| N. | 8.6 | 205.2 | |
| 2+50 | | | |
| N | 10.4 | 203.4 | |
| ⊕ | 10.6 | 203.2 | |
| S | 10.5 | 203.3 | |
| T.P. | 1.61 | 202.54 | 12.89 200.93 |
| 2+78 | | | |
| S. | 1.4 | 201.1 | |
| ⊕ | 1.6 | 200.9 | |
| N. | 1.5 | 201.0 | |
| 2+82 = W. End double garage on S. ent. floor 4' Back. | | | |
| N. | 1.9 | 200.6 | |
| ⊕ | 2.0 | 200.5 | |
| S | 2.4 | 200.1 | |
| + 1.0 ent. apron | 2.50 | 200.09 | |
| + 4' = floor | 2.50 | 200.04 | |
| 2+99 = E. End above garage. | | | |
| S - 4' floor | 2.73 | 199.81 | |
| - 1' apron | 3.04 | 199.50 | |
| S | 2.9 | 199.6 | |

202.54

Alley BIK 58 Higgins

44

| | | | |
|------|------|--------|--------------|
| ⊕ | 3.4 | 199.1 | |
| N | 3.3 | 199.2 | |
| 3+05 | | | |
| - 5 | 6.5 | 196.0 | |
| N | 5.2 | 197.3 | |
| + 3 | 4.2 | 198.3 | |
| ⊕ | 4.2 | 198.3 | |
| + 5 | 4.7 | 197.8 | |
| S | 5.6 | 196.9 | |
| + 5 | 4.1 | 196.4 | |
| 3+37 | | | |
| - 5 | 9.7 | 192.8 | |
| S. | 9.0 | 193.5 | |
| + 4 | 8.2 | 194.3 | |
| ⊕ | 8.7 | 193.8 | |
| N. | 9.6 | 192.9 | |
| + 5 | 9.8 | 192.7 | |
| 3+47 | | | |
| - 5 | 12.6 | 189.9 | |
| N | 12.4 | 190.1 | |
| ⊕ | 12.0 | 190.5 | |
| S | 10.8 | 189.2 | |
| + 5 | 10.8 | 189.2 | |
| T.P. | 0.96 | 190.54 | 12.96 189.58 |

190.54

3+53,

| | | | | |
|-----|------------|--|-----|-------|
| S-2 | emt. walls | | 1.8 | 188.7 |
| S | | | 1.4 | 188.7 |
| Φ | | | 1.4 | 189.1 |
| N | | | 1.6 | 188.9 |
| +5 | | | 1.4 | 188.7 |

3+80

| | | | | |
|----|--|--|-----|-------|
| -5 | | | 9.3 | 181.2 |
| N | | | 8.8 | 181.7 |
| Φ | | | 7.7 | 182.8 |
| S | | | 7.7 | 182.8 |
| +5 | | | 7.6 | 182.9 |

4+00

| | | | | |
|----|--|--|------|-------|
| S | | | 10.3 | 180.2 |
| Φ | | | 12.0 | 178.5 |
| N | | | 12.6 | 177.9 |
| +5 | | | 13.3 | 177.2 |

| | | | | |
|------|-------|--------|------|--------|
| T.P. | 11.30 | 200.88 | 0.96 | 189.58 |
|------|-------|--------|------|--------|

| | | | | |
|------|-------|--------|------|--------|
| T.P. | 10.43 | 204.99 | 6.72 | 194.16 |
|------|-------|--------|------|--------|

| | | | | | |
|-------------|------|--------|------|--------|----------|
| chk BM S.W. | 3.33 | 201.46 | 6.86 | 198.13 | = 198.05 |
|-------------|------|--------|------|--------|----------|

27.44 + c

| | | | | | |
|------------------|--|--|------|--------|----------|
| chk original BM. | | | 4.49 | 196.97 | = 196.97 |
|------------------|--|--|------|--------|----------|

Levels on Sorrento Grade
 Miramar-Linda Vista Rd to Sorrento Store
 + Santa Fe RR Crossing

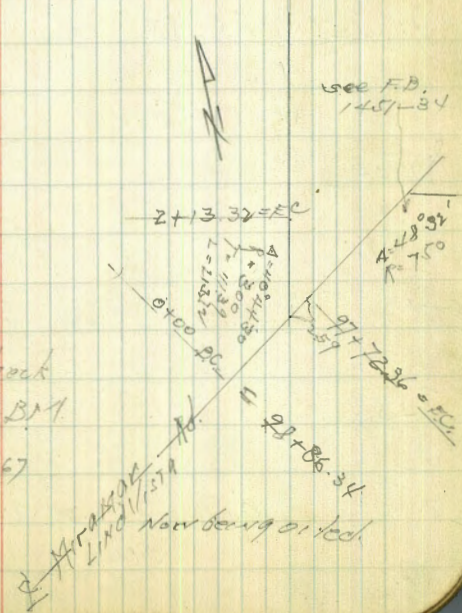
| | | | |
|---------------|-------------|-----------|--------------------------|
| 6+00 | | 12.4 | 352.4 |
| T.P. | 0.67 | 364.79 | 12.6 ^v 364.12 |
| 5+00 = Δ | 20°09' RT. | 14.6 | 362.1 |
| 4+00 | | 9.9 | 366.8 |
| 3+00 | | 7.5 | 369.2 |
| 2+13.34 = EC. | | 5.4 | 371.3 |
| 1+06.66 | | 5.7 | 372.0 |
| 0+00 = B.C. | | 2.1 | 374.6 |
| 98786.34 | | | |
| 4.30 | 376.74 | 374.44 | Spike BM. |
| | G.D. 179-24 | 4.9877.36 | |

Moore
 Sisson
 Northern
 7-26-34

Indexed
 C.S.K.
 old existing road
 approx. 20" wide. **46**

5400
 50°09' RT.
 I. or dirt Rd.

From Co. B.M. at
 City line + Miramar +
 Linda Vista. Does not check
 to Torrey Pines Mesa Rd. B.M.
 error of 1.28 Sec 1451-67



Ⓢ

10+00 2.8 311.7

T.P. 0.53 314.47 12.69 313.94

9+00 5.2 321.4

T.P. 0.06 326.63 12.77 326.57

8+50 = A 22° 50' LT. 8.7 330.6

8+00 6.6 332.7

T.P. 0.12 339.34 12.98 339.22

7+00 9.1 343.1

T.P. 0.17 352.20 12.76 352.03
364.79

Ⓢ

47

40 20 edge ditch
rd

10 0 edge ditch rd.

15 RP. RP.

15+00

5.1

271.2

T.P.

0.26

276.32

13.00

275.96

14+14 = $\Delta 30^{\circ}36' RT$

11.5

277.2

14+00

10.8

278.2

13+00

2.1

286.9

T.P.

0.19

288.96

12.88

288.77

15+00

6.6

295.1

T.P.

0.10

301.65

12.94

301.55

11+00

11.2

303.3

414.47

4

0.3
end

8' 0" edge ditch

48

10' 0" edge ditch
end

10' 14" edge ditch
end

6' 0" edge ditch
end

0.4
end
6' 0" edge ditch

19+46=A 19°30' AT 0.6 250.9

T.P. 0.00 251.45 12.94 251.45

19 11.8 252.6

18+00 7.9 256.5

17+00 3.7 260.7

16+64=A 7°50' LT 2.1 262.3

T.P. 0.77 264.37 12.72 263.60

16+00 10.2 266.1

276.32

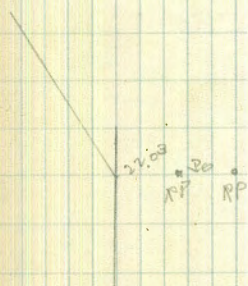
Sorrento Grade

49

0 9 0 14 0 edge ditch
End

20 9 0 edge ditch
End

0 11 0 edge ditch
End



10 12 0 edge ditch
End

40 8 0 edge ditch
End

T.P. 0.03 213.02 12.96 212.99

24 9.0 216.9

23 1.5 224.6

T.P. 0.52 225.93 12.91 225.71

22 5.3 233.3

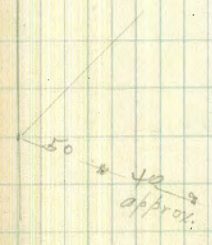
21+81 = A 15° 47' N. 2.8 234.8

T.P. 0.15 238.62 12.98 238.47

21 9.6 241.9

20+00 7.8 248.7

25/25



3 a 11.0 edge direct
erd

4 a 14.0 edge direct
erd

7 a 14.0 edge direct
erd

4 a 10.0 edge direct
erd

2 a 10.0 edge direct
erd

Φ
T.P. 0.46 188.20 12.80 187.74

29+40 + 2.2 202.7

28+85 12.5 197.0

28+30 + 9.5 210.0

27+60 Pot. stab + 14.2 214.7

27+00 1.9 198.6 =

T.P. 0.20 200.54 12.68 200.34

26 9.9 203.1

25+00 3.1 209.9

213.02

Φ

51

187.1 • 15 • 10 • 10 • edge ditch
13.4 rod
Tapcut end

189.5 • 15 • 10 • 9 • edge ditch
Tapcut end 11.0 rod

192.3 • 16 • 10 • 10 • edge ditch
8.0 rod
Tapcut end

196.3 • 14 • 10 • 10 • edge ditch
Tapcut end 4.2 rod

• 10 • 10 • edge ditch
end

• 5 • 11 • edge ditch
end

• 5 • 10 • edge ditch
end

35 9.8 166.0

34 7.3 168.5

33 7.8 173.0

32 + 47 = A 15° 00' RT 1.00 174.8

T.P. 0.09 175.82 174.7 175.73

31 11.7 176.5

30 8.0 180.2

30 + 05 = A 27° 30' LT. 4.7 183.5

29 + 85 = P.O.T. stub top bank + 9.3 197.5

188.40

52
0.5 0.14 edge ditch
erd

0.5 0.10 edge ditch
erd

0.8 0.25 edge ditch
erd

9 0.9 edge ditch
erd

14 14 edge ditch
erd

erd 70 edge ditch

wedge and 8 14 edge ditch
erd

185.0

5 10 19 edge ditch
70 feet erd
3.4 red

39+60 = $\Delta 57^{\circ} 00' \text{ RT}$ 2.69 149.49 Stub

T.P. 0.48 152.18 126.8 151.70

39 13.3 151.1

38 8.8 155.6

37+66 = $\Delta 61^{\circ} 20' \text{ LT}$ 6.4 158.10

37 4.3 160.1

T.P. 110 164.38 175.4 163.78

36 12.2 163.6

35+30 = $\Delta 51^{\circ} 36' \text{ RT}$ 10.7 165.1

175.87

2
end
10 10 edge ditch 53

2 12 edge ditch
end

end 14 edge ditch

10 10 edge ditch
end

10 20 edge ditch
end

end 8 edge ditch

10 11 edge ditch
end

Q

41 " 3.8 139.5

43+44 = Δ 21° 47' RT. 3.3 / 139.94 STUB

43 1.9 141.4

F.P. 117 143.25 10.10 144.08

42 8.8 143.4

41 + 50 = Δ 14° 34' LT 7.7 144.5

41 6.8 145.4

40+00 4.1 148.1

152.18

Jorremy
Grade

54

Q

14 90 edge ditch
Erd

10 10 edge ditch
Erd

5 12 edge ditch
Erd

5 10 edge ditch
Erd

10 19 edge ditch
Erd

8 10 edge ditch
Erd

50 40
RP RP

| | | | | |
|-------|--------------|------|--------|--------|
| | | | 2 | |
| 51+00 | | 10.5 | 124.9 | |
| 49+90 | Δ 12°22' LT | 8.0 | 127.4 | |
| 49 | | 7.4 | 128.0 | |
| 48 | | 4.6 | 130.8 | |
| T.P. | 128 N.E. 40 | 9.3 | 134.1 | A Stub |
| 47+17 | Δ 36°46' LT | 9.3 | 134.12 | |
| 47 | | 8.7 | 134.6 | |
| 46 | | 8.0 | 135.3 | |
| 5+00 | Δ 15°06' RT. | 6.6 | 136.7 | |

143.25

Sarrey 70
Grade

55

7.0 14. edge ditch
erd

4.0 10. edge ditch
erd

10.0 15. edge ditch
erd

4.0 14. edge ditch
erd

10.0 4. edge ditch
erd

5.0 10. ditch
erd

5.0 30. ditch
erd

58

E

2.1

111.5

T.P.

0.62

113.61

123.9

112.99

57

17.8

112.6

56

10.4

115.0

55 + 17 = $\Delta 36^{\circ} 57'$ Lt

8.39

116.99

STUB

54

5.0

120.4

53

3.8

121.6

52 + 00

2.8

122.6

T.P.

1.01

125.38

11.03

124.37

125.40

E

4.5 ^{erd} 15. ditch

56

10.0 50.0 ditch
erd10.0 30.0 ditch
erd10.0 20.0 ditch
erd10.0 13.0 ditch
erd10.0 14.0 ditch
erd10.0 8.0 edge ditch
erd

A 45° 45' RT
P 1000
T 421.90
L 798.49

Q

63 + 25.62 BC.

11.4 102.2

7. P. rock
3' 15" of BC

63

11.2 102.4

67.

9.7 103.9

61

7.7 105.9

60

5.0 108.6

59 + 20 = A 4° 17' RT

3.6 110.0

59

3.4 110.2

58 + 50

11361

Q

57

ditch angle
away from rd. for
some ways

erd

erd

50 = ditch

erd

40 = ditch

erd

40 = ditch

erd

30 = ditch

erd

13 = edge ditch

erd

8 = edge ditch

T.P. 045 93.31 124/ 92.86

70 7.6 97.7

69 7.2 98.1

68 8.0 97.3

67 5.9 99.4

66 6.9 98.4

65 5.6 99.7

64 4.2 101.1

T.P. 311 105.27 11.45 102.16
113.61

Barren 70
Grade
58
5. 10. edge ditch 15' deep

90.9 W. W. edge ditch
erd. rod = 14.4

93.3 N. rod 14.0
erd 60. ditch

erd

rod 5.1
erd 70 100.2

5.1 rod W
erd 100.2

4.5 rod W
erd 100.8

erd

76+00 4 1.5 80.1

J.P. 110 81.57 1284 5047

75+40

75 11.5 81.8

74 9.7 83.6

73 7.8 85.5

72 6.4 87.1

71+24.1 = EC. 4.6 88.7

71+00 2.0 89.3

933/

Sorrento
Grade

59

erd 40 0 ditch

erd 4.6 edge ditch 18' deep 10' wide

erd 11' ditch 15' deep 10' wide

erd 50 0 ditch

erd 100 0 ditch

25' RT of

71+60 spike Tel. pole

42.4

89.07 87.47 see BK

error 1.80 } 1,440 - 54

correction of grade

87.67 = walk for hands

error = 1.45

erd 50 0 ditch

erd 30 0 ditch

erd 40 0 ditch

erd

2

83 5.1 63.6

82 2.3 66.4

T.P. 003 68.70 1290 68.67

81 13.0 68.6

80 10.5 71.1

79 8.2 73.4

78 5.5 76.1

77+00 3.0 78.6

81.57

2

Sorrenyo
Grade

60

1/2 rd

1/2 rd 200 • ditch

1/2 rd

1/2 rd 200 • ditch

1/2 rd

1/2 rd 200 • ditch

1/2 rd 150 • ditch

| | ± | | |
|------------------------------------------------------------------------|-------|-------|---------|
| 87 | 3.1 | 55.6 | |
| 86 + 48 F end bridge | 1.73 | 56.95 | on deck |
| 86 + 32 Weir bridge | 1.58 | 57.10 | on deck |
| 86 | 1.2 | 57.5 | |
| T.P. of P.I. Hub. 0.7 | 58.68 | 10.29 | 58.41 |
| 85 + 81.91 = EC. | 10.9 | 57.8 | |
| $A = 9^{\circ}05'30''$ AT $R = 1000$ $T = 79.51$ $L = 158.68$ | | | |
| 85 + 0.7 = PI | 9.6 | 59.1 | |
| 84 + 2.13 = BC. | 8.1 | 60.6 | |
| 84 + 00 | 7.6 | 61.1 | |

68.70

edge ditch. 15

±

Sorrento
Grade

61

12 . edge ditch

12 rd. 20 . ledge ditch

weir 90 . ditch

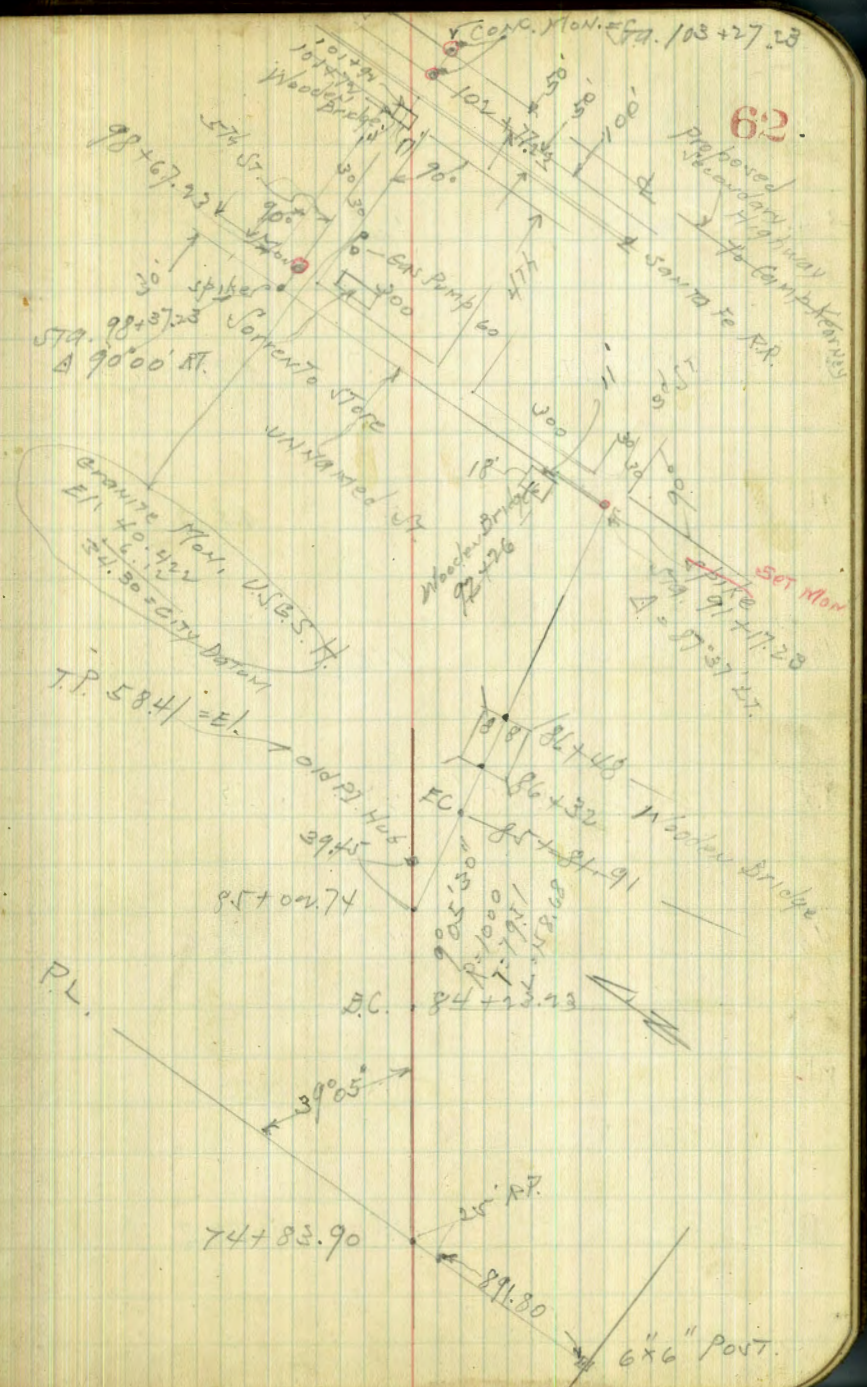
weir

Sorrento Grade
 at Sorrento

next page for levels cont.

1027723
 983723

 44000



62

Granite Mon. U.S.S.T.
 El. 40.424
 34.30 = City Datum

T.P. 584 = El.

74+83.90

6x6" post.

| | | | | |
|---------|---------------|-------|-------|---------|
| 94 | | 6.2 | 40.3 | |
| 91+50 | | 4.0 | 42.5 | |
| 91+17.3 | A 87° 37' LT. | 2.7 | 43.8 | sp/50 |
| 91 | | 1.6 | 44.9 | |
| 90+50 | | 1.2 | 45.3 | |
| T.P. | 0.18 | 46.54 | 12.50 | 46.36 = |
| 90 | | 12.1 | 46.6 | |
| 89 | | 8.5 | 50.2 | |
| 88 | | 5.5 | 53.2 | |

58.68

Sartento
Grade 63

| | | |
|---------|----|------|
| rod 2.9 | 20 | 43.6 |
| rod 2.1 | 55 | 44.4 |

ditch • 90

ditch • 70

in ditch rd.

| | Σ | | |
|-------|----------|------|--|
| 97 | 4.2 | 42.2 | |
| 96 | 3.9 | 42.6 | |
| 95 | 4.4 | 42.1 | |
| 94 | 4.8 | 41.7 | |
| +50 | 6.0 | 40.5 | |
| 93 | 7.1 | 39.4 | |
| 92+50 | 7.2 | 39.3 | |
| 92+44 | 10.6 | 35.9 | |
| 92+26 | 6.3 | 40.2 | |

46.54

| | Σ | | |
|--|----------|--------------|----------|
| | | | 4.0 krd. |
| | | | 4.2 krd. |
| | | | 4.5 krd. |
| | | rod 4.7 | 41.8 |
| | | rod 4.3 | 42.2 |
| | | rod 3.8 | 42.7 |
| | | rod 3.4 | 43.1 |
| | | deck rod 3.4 | 43.1 |
| | | deck rod 3.3 | 43.3 |

} send bridge
 } send bridge

2

T.P. 1.83 32.40 12.76 30.57

101 13.9 29.4

100 10.2 33.1

99 5.5 37.8

98+67.23 Conc. Mon. 39.4 39.37

T.P. 1.06 43.31 4.29 42.25

98+37.23 Δ 90° RT 3.7 42.8

98+00 5.6 40.9

46.54

2 Sorrento Gr.

65

Granite Mon. B.M.
U.S.G.S. B.M. H. Sorrento
1/4 Mi. So. of Santa Fe Sta.
east end Gas Pump at
Sorrento Store

40.422 v. used
6.22
36.20
43.31 x
-7.08
36.23
-4.30
1.93 diff.

| | | | | |
|----------------------|------|-------|--------------------------------|--------------------------------------------------------|
| check to Walker B.M. | 4.71 | 27.69 | BP water Taxi Conv. Base | City Dat. Walker El. 26.97 26.07 1.62 eqv. |
|----------------------|------|-------|--------------------------------|--------------------------------------------------------|

Correction
has NOT been figured

diff. of 1.28 in EL.
in County B.M. at
junction of Lincoln
to Torrey Pines Pass
B.M.
See 1451-67

| | | | | |
|------------------------------------|-----|------|-----------|------------------------|
| 103+27.23 = $\frac{1}{2}$ proposed | 6.5 | 25.9 | Secondary | Highway to Camp Kearny |
|------------------------------------|-----|------|-----------|------------------------|

| | | | | |
|--------------------------------------------------------------|--|------|--|--|
| 102+77.23 = Ely base P.A.P.O.W. 5.1 6" deep Conv. Mon. | | 27.3 | | |
|--------------------------------------------------------------|--|------|--|--|

| | | | | |
|-----------------------------------|------|-------|----------|--|
| 102+27.23 & Santa Fe Main line | 4.85 | 27.55 | Top rail | |
|-----------------------------------|------|-------|----------|--|

| | | | | |
|--------------------|------|-------|----------|--|
| 102+12.23 & siding | 4.88 | 27.52 | Top rail | |
|--------------------|------|-------|----------|--|

| | | | | |
|-----|-----|------|--|--|
| 102 | 4.8 | 27.6 | | |
|-----|-----|------|--|--|

| | | | | |
|----------------|-----|------|--------------|--|
| 101+92 on deck | 4.6 | 27.8 | E emb bridge | |
|----------------|-----|------|--------------|--|

| | | | | |
|----------------|------|-------|--------------|--|
| 101+72 on deck | 4.57 | 28.03 | W emb bridge | |
|----------------|------|-------|--------------|--|

5240

indexed
c.s.k.

Las Penasquitas Rd.
Santa Fe RR to eastly.

Moore
Surreal
Northfork
L-10-34

9+00 Proposed Culv. or bridge radial

6+79.36 P.C. RT.

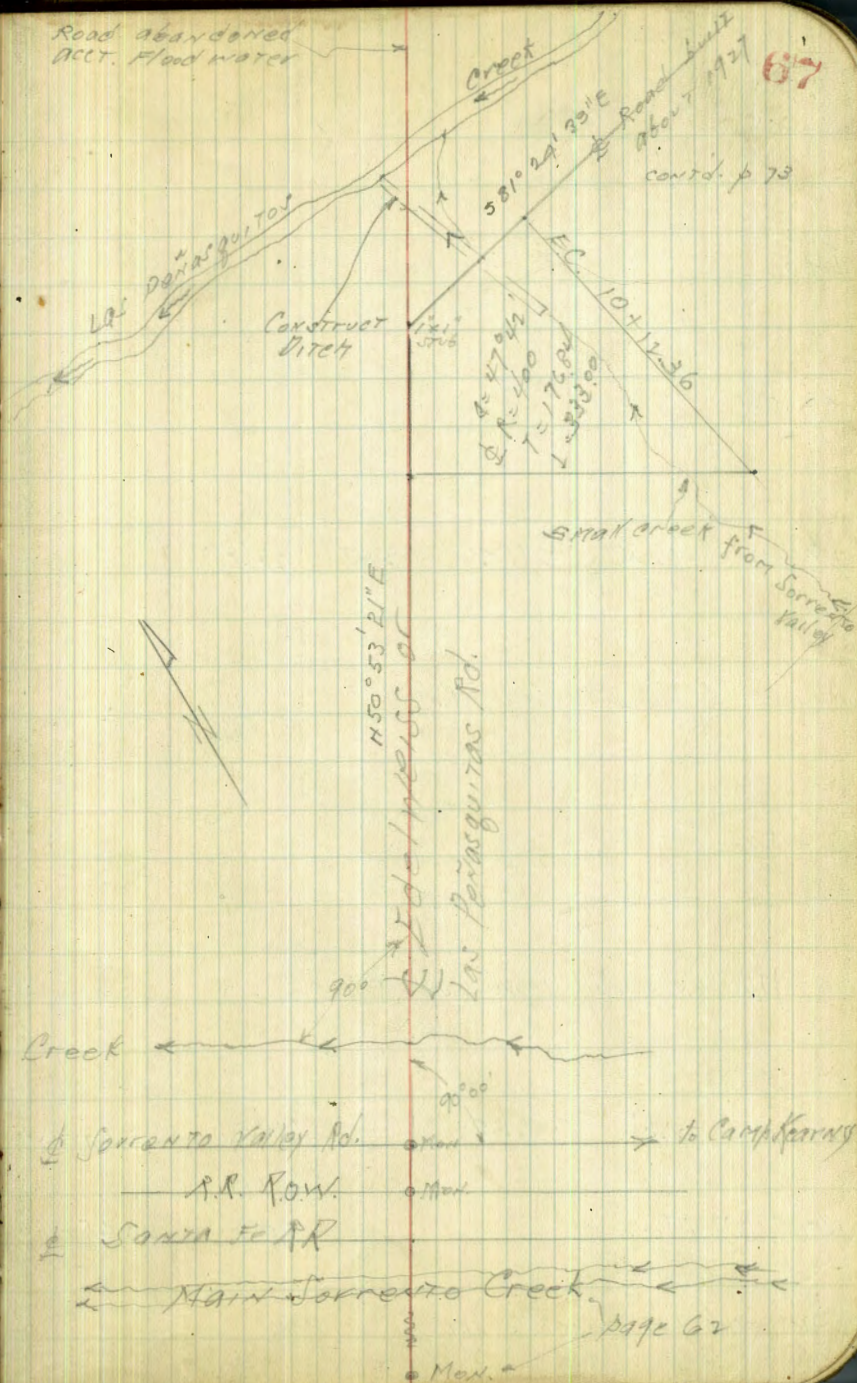
1+10 Proposed Culvert or bridge Secondary Sorrento

0+00

0-50

0-100

Road abandoned
acct. Flood water



1405

1400

0750

77 5.24 29.34 12.47 24.08

0+00 @ Sorrento Valley Rd

0-50

00-9764 on E rail Main line RR

v. 34 36.55 34.30 City Datum

- 6.4
40.42 USGS

USGS B.M. Mon.

H. Sorrento

east end gas pump Sorrento Store

27

$\frac{27}{30}$

$\frac{02}{30}$

$\frac{5.6}{30}$

$\frac{12.0}{30}$

2

8.4

0.4

6.3

12.5

10.0

10.91

87

$\frac{7.8}{30}$

$\frac{0.8}{30}$

$\frac{5.6}{30}$

$\frac{12.0}{30}$

29.31 x

36.55 x

68

2+50

 $\frac{5.6}{30}$

5.0

 $\frac{4.8}{30}$

3+00

 $\frac{5.7}{30}$

4.4

 $\frac{4.8}{30}$

2+70 power pole

0 10

2+50

 $\frac{6.4}{30}$

6.0

 $\frac{5.7}{30}$

7+00

 $\frac{6.4}{30}$

6.0

 $\frac{5.9}{30}$

1+50

 $\frac{6.8}{30}$

7.1

 $\frac{6.2}{30}$

1+25

 $\frac{7.3}{30}$

6.4

 $\frac{6.4}{30}$

1+20

 $\frac{8.4}{30}$

7.8

 $\frac{7.7}{30}$

29.32

29.32 T

G+79.36 PC. Rt.

T.P. 2.99 29.06 4.5 25.07

6+50

6+00

5+50

5+00

4+50

4+00

29.32

LT

±

Rt

70

$\frac{59}{30}$

4.7

$\frac{4.5}{30}$

29.06

$\frac{60}{30}$

4.9

$\frac{4.8}{30}$

$\frac{55}{30}$

4.7

$\frac{4.9}{30}$

$\frac{57}{30}$

4.6

$\frac{4.5}{30}$

$\frac{58}{30}$

4.6

$\frac{4.5}{30}$

$\frac{59}{30}$

4.8

$\frac{4.8}{30}$

$\frac{57}{30}$

5.0

$\frac{4.6}{30}$

29.32 = X

LT.

d

RT.

71

9+50

Las Penasquitas Creek

 $\frac{7.7}{110}$ $\frac{5.7}{70}$ $\frac{7.4}{50}$ $\frac{4.4}{30}$

4.5

 $\frac{4.7}{30}$

9+20

 $\frac{5.3}{30}$ $\frac{5.0}{40}$ $\frac{4.8}{70}$

4.8

 $\frac{4.6}{30}$

9+10

 $\frac{4.8}{30}$ 7.0
K creek bed $\frac{5.0}{30}$

9+00

proposed culv. or bridge or radial line

 $\frac{8.0}{150}$ $\frac{7.0}{50}$ $\frac{5.9}{30}$ $\frac{4.8}{30}$

5.7

 $\frac{7.0}{70}$ $\frac{7.2}{30}$ d creek for inlet

Las Penasquitas Creek

8+50

 $\frac{4.9}{40}$

5.2

 $\frac{5.4}{30}$

8+00

 $\frac{4.5}{30}$

5.1

 $\frac{4.8}{30}$

7+50

 $\frac{5.5}{30}$

4.5

 $\frac{5.2}{30}$

7+00

 $\frac{5.7}{30}$

4.6

 $\frac{4.3}{30}$

29.06

29.06 = π

| | | | | | |
|------------------|------|-------|------|-------|-------------------------------------------|
| check to BM Mon. | | | 252 | 3430 | not error vs 35 Sacramento State |
| T.P. | 8.27 | 36.88 | 191 | 2861 | |
| T.P. | 6.98 | 30.54 | 6.00 | 23.54 | |
| T.P. BM | 3.34 | 29.52 | 949 | 2620 | 3 knots in power pole |

→ to LT of Sta 8+50

11+50

$\frac{13.7}{50}$ $\frac{1.4}{45}$ $\frac{11.2}{30}$ 11.4 $\frac{11.2}{10}$ $\frac{6.8}{15}$ $\frac{0.8}{30}$

11+00

Peñacuitas Creek

~~$\frac{14.0}{45}$~~ $\frac{11.4}{50}$ $\frac{11.4}{30}$ 11.6 $\frac{10.9}{10}$ $\frac{7.9}{20}$ $\frac{1.7}{30}$

10+50

$\frac{21.4}{30}$ 11.1 $\frac{11.0}{10}$ $\frac{7.0}{15}$ $\frac{0.8}{30}$

10+14.36 EC.

$\frac{11.1}{30}$ 11.4 $\frac{11.1}{10}$ $\frac{7.5}{30}$

10+00

Las Peñacuitas Creek

$\frac{11.1}{80}$ $\frac{12.2}{80}$ $\frac{11.4}{30}$ 11.5 $\frac{9.0}{25}$ $\frac{6.2}{30}$

| | | | | | |
|------|-------|-------|-----|------|--|
| T.P. | 11.35 | 35.69 | 272 | 2434 | |
| | | 29.06 | | | |

35.69 = T

EC. 16+52.57

$A = 14^{\circ}00'$ LT.
 $R = 1000$
 $T = 122.78$
 $L = 244.35$

P.I. 15+31.00

PC. 14+08.24

EC. 13+09.37

$\Delta = 4^{\circ}46'$ RT
 $R = 1000$
 $T = 41.62$
 $L = 83.19$

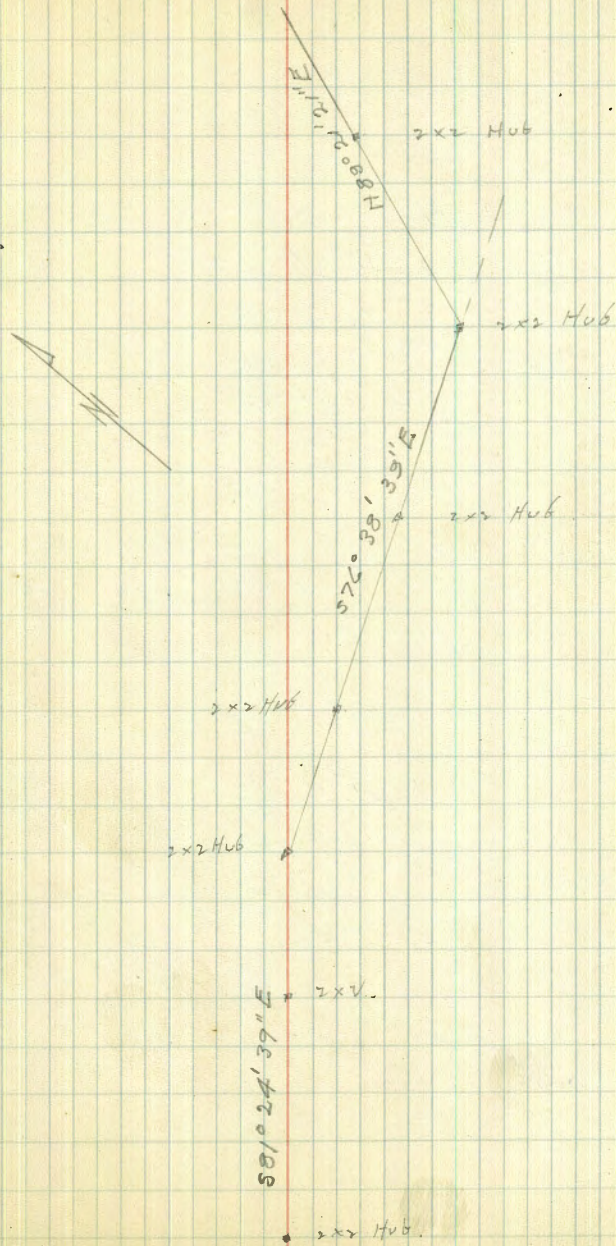
P.I. 12+67.80

12+67.76 = Center Curve

PC. 12+26.18

EC. 10+12.86

corrid from 67



EC. 29+29.22

$\Delta = 150^{\circ} 36' \text{ LT.}$

$R = 5000$

PI. 26+61.50 $T = 271.00$

$L = 538.72$

PC. 23+90.50

EC. 21+11.42

$\Delta = 21^{\circ} 16' \text{ LT.}$

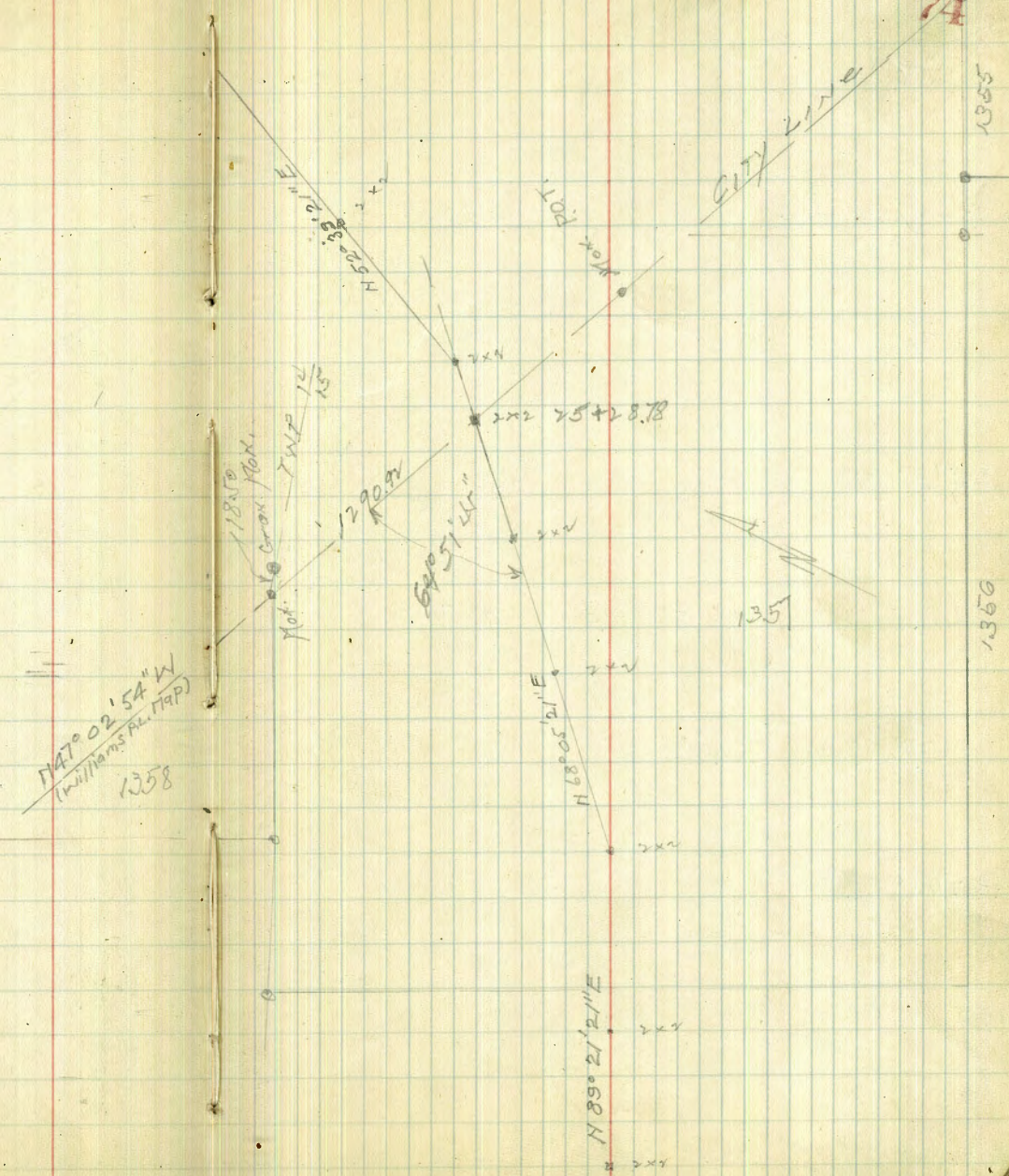
$R = 1000$

PI. 19+28.00 $T = 187.75$

$L = 371.17$

PC. 17+40.25

EC. 16+52.57



LT. 2 RT

+50

$\frac{25.2}{30}$ $\frac{230}{20}$ $\frac{17.8}{12}$ 17.5 $\frac{15.2}{2}$ $\frac{+15}{30}$
Creek

+08.22 PC.

$\frac{22.5}{30}$ $\frac{21.0}{20}$ $\frac{18.0}{11}$ 17.8 $\frac{19.3}{9}$ $\frac{+18}{30}$

+50

$\frac{24.8}{30}$ $\frac{230}{20}$ $\frac{21.0}{15}$ $\frac{17.7}{10}$ 17.7 $\frac{13.5}{4}$ $\frac{0.4}{30}$
Creek

13+09.37 EC.

$\frac{24.8}{25}$ $\frac{21.2}{20}$ $\frac{21.6}{15}$ $\frac{18.5}{10}$ 18.0 $\frac{16.5}{4}$ $\frac{33}{30}$
Creek

T.P. 12.91 46.80 1.31 33.09

46.80

+67.76 Center Curve

$\frac{10.7}{30}$ $\frac{10.0}{10}$ 8.6 $\frac{8.6}{4}$ $\frac{5.0}{7}$ $\frac{+7.0}{30}$

+26.18 PC.

$\frac{10.7}{30}$ $\frac{10.9}{15}$ 10.7 $\frac{10.1}{5}$ $\frac{7.1}{8}$ $\frac{+4.5}{30}$

12+00

$\frac{10.7}{30}$ $\frac{10.8}{14}$ 10.7 $\frac{10.6}{8}$ $\frac{8.0}{10}$ $\frac{+0.5}{30}$

50 RT 8+50 9.00 35.20

26.20 3 nails power pole

35.20

18+00

17+40.25 PC.

T.P. 13.02 48.15 11.67 35.13

17+00

16+52.57 EC

16+00

15+50

15

LT

2

F4

76

$\frac{21.5}{30}$ $\frac{20.4}{20}$ $\frac{20.4}{4}$ 19.0 $\frac{6.1}{30}$

$\frac{21.2}{30}$ $\frac{21.2}{20}$ $\frac{19.2}{14}$ $\frac{19.2}{2}$ 17.2 $\frac{4.9}{30}$

48.15

$\frac{20.5}{30}$ $\frac{19.0}{10}$ $\frac{19.0}{6}$ 16.2 $\frac{4.8}{30}$

$\frac{19.9}{30}$ $\frac{19.2}{20}$ $\frac{17.7}{17}$ $\frac{17.7}{5}$ 15.5 $\frac{2.8}{30}$

$\frac{20.6}{30}$ $\frac{19.1}{20}$ $\frac{18.6}{15}$ $\frac{18.6}{4}$ 14.5 $\frac{7.0}{15}$ $\frac{0.8}{30}$

$\frac{22.0}{30}$ $\frac{20.4}{20}$ $\frac{18.4}{12}$ 18.3 $\frac{13.6}{4}$ $\frac{0.0}{30}$

$\frac{24.0}{30}$ $\frac{22.0}{20}$ $\frac{17.9}{11}$ 17.7 $\frac{14.3}{4}$ $\frac{1.7}{30}$

46.80

T.P. 10.60 45.91 12.82 35.23

22

21+50

21+11.42 EC

+50

20

+50

19

18+50

LT ♂ RT

77

creek $\frac{20.0}{30}$ $\frac{19.7}{8}$ $\frac{18.2}{6}$ 18.2 $\frac{18.2}{6}$ $\frac{16.1}{10}$ $\frac{10.5}{30}$

$\frac{21.0}{30}$ $\frac{19.9}{15}$ $\frac{18.4}{9}$ 18.4 $\frac{18.4}{4}$ $\frac{15.6}{6}$ $\frac{4.6}{30}$

creek $\frac{21.2}{30}$ $\frac{21.0}{15}$ $\frac{19.0}{12}$ 18.9 $\frac{4.5}{30}$

$\frac{21.1}{30}$ $\frac{20.0}{20}$ $\frac{19.0}{17}$ $\frac{19.0}{7}$ 17.0 $\frac{6.6}{30}$

$\frac{21.9}{30}$ $\frac{20.9}{19}$ $\frac{20.9}{7}$ 18.7 $\frac{7.5}{30}$

$\frac{20.8}{30}$ $\frac{19.8}{19}$ $\frac{19.8}{7}$ 17.1 $\frac{6.5}{30}$

$\frac{22.1}{30}$ $\frac{22.1}{20}$ $\frac{21.1}{18}$ $\frac{21.1}{5}$ 19.3 $\frac{8.3}{30}$

$\frac{22.7}{30}$ $\frac{21.9}{17}$ $\frac{21.9}{5}$ 18.9 $\frac{5.0}{30}$

48.15

27+50

26+50

25

25

+50

24+00

+50

23

22+50

$\frac{14.93}{12.55}$
 $\frac{37.68}{1.25}$
 $\frac{34.91}{1.41}$
 $\frac{19.50}{4.98}$
 $\frac{34.43}{8.06}$
 $\frac{6.27}{2.60}$
 $\frac{28.97}{2.80}$
 $\frac{26.17}{26.20}$

3rd pole

26.20

LT 2
 $\frac{19.2}{30}$ $\frac{18.1}{20}$ $\frac{18.0}{7}$ $\frac{16.2}{4}$ 14.2 $\frac{17.7}{30}$

$\frac{20.1}{30}$ $\frac{20.2}{20}$ $\frac{17.3}{15}$ $\frac{17.3}{4}$ 14.3 $\frac{10.8}{30}$

$\frac{20.6}{30}$ $\frac{18.6}{15}$ $\frac{17.6}{12}$ $\frac{17.6}{2}$ 14.8 $\frac{5.7}{30}$

$\frac{20.8}{30}$ $\frac{18.8}{15}$ $\frac{17.8}{11}$ 17.8 $\frac{14.5}{4}$ $\frac{2.8}{30}$

$\frac{20.2}{30}$ $\frac{20.0}{20}$ $\frac{19.0}{10}$ $\frac{17.7}{8}$ 17.6 $\frac{17.6}{4}$ $\frac{12.7}{7}$ $\frac{4.1}{30}$

$\frac{20.0}{30}$ $\frac{19.7}{15}$ $\frac{19.6}{7}$ $\frac{17.6}{4}$ 17.6 17.6 $\frac{14.5}{10}$ $\frac{2.9}{30}$

$\frac{20.6}{30}$ $\frac{20.0}{15}$ $\frac{18.6}{5}$ 17.6 $\frac{17.6}{11}$ $\frac{15.2}{15}$ $\frac{5.4}{30}$

$\frac{19.2}{30}$ $\frac{18.6}{15}$ 15.8 $\frac{15.7}{11}$ $\frac{12.3}{15}$ $\frac{4.2}{30}$

$\frac{17.4}{30}$ $\frac{17.2}{15}$ 17.0 $\frac{17.0}{11}$ $\frac{10.6}{30}$

46.93

| Sta. | Azimuth | | Mag. |
|--------------------|----------|-----------|----------|
| | Sgl. | Db. | |
| 31+39.90 | 197° 44' | +35° 27½' | |
| 28+85.78 | P.O.T. | | N 22° E |
| 27+90.20 | 159° 36' | 319° 11' | |
| 26+05.00 | P.O.T. | | N 42½° E |
| 19+41.37 P.I. | 204° 28' | +48° 56' | |
| 15+23.63 P.O.T. | | | |
| | | | N 18° E |
| 13+46.22 P.I. | 193° 23' | +26° 16' | |
| | | | N 5° E |
| 11+81.25 P.I. | 197-35 | +35-11 | |
| 9+73.28 | P.O.T. | | N 13° W |
| 6+52.70 P.I. | 179-26 | 358-52½ | |
| 0+00 | | | |

From Sta 23 to 35+64.83
used 300' tape which was
later found to be 0.30' short.

$$\Delta = 117^{\circ} 44' \text{ Pt}$$

$\Delta = 20^{\circ} 24' \text{ Lt.}$
(Shift line up hill to
make smaller Δ)

$$\Delta = 24^{\circ} 28' \text{ Pt}$$

$$\Delta = 13^{\circ} 23' \text{ Pt}$$

$$\Delta = 17^{\circ} 35' \text{ Pt}$$

$$\Delta = 0^{\circ} 34' \text{ Lt.}$$

| Sta. | Azimuth | | Mag. | |
|--------------|----------|-----------|------|----------|
| | Sgl. | Db. | | |
| # 18, Pg. 10 | | | | |
| 19) 96+54.30 | 174° 07' | 345° 13½' | | N 35½° W |
| 90+00 | P.O.T. | | | N 33° W |
| 86+88.80 | 165° 53' | 331° 45' | | N 55° W |
| 84+27.00 | 137° 51' | 275° 42' | | N 18½° W |
| 66+57.18 | P.O.T. | | | N 23½° E |
| 65+15.65 | 226° 28' | +92° 56' | | |
| | | | | N 22½° W |
| 52+48.00 | 147° 19' | 294° 37½' | | |
| | | | | N 10° E |
| 47+16.90 | 163° 23' | 326° 45½' | | |
| | | | | N 27° E |
| 46+07.80 | 153° 06' | 306° 13' | | |
| | | | | |
| 44+23.87 | P.O.T. | | | N 54° E |
| 40+77.24 | 207° 40' | +55° 19½' | | |
| | | | | N 26° E |
| 35+64.83 | 166° 15' | 332° 30' | | |
| | | | | N 40° E |
| 31+39.90 | | | | |

$$\Delta = 14^{\circ} 07' \text{ Lt.}$$

$$\Delta = 42^{\circ} 09' \text{ Lt.}$$

$$\Delta = 46^{\circ} 28' \text{ Pt}$$

$$\Delta = 32^{\circ} 41' \text{ Lt}$$

$$\Delta = 16^{\circ} 37' \text{ Lt.}$$

$$\Delta = 26^{\circ} 54' \text{ Lt.}$$

$$\Delta = 27^{\circ} 40' \text{ Pt}$$

$$\Delta = 13^{\circ} 45' \text{ Lt.}$$

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

from side stake to slope stake. If ground is not level, the side stake and slope stake, lower table by this amount if cut, elevations if fill. Add this amount to cut or fill and find in table. Set up rod at this point, and line of sight should cut target. necessary.

**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 connection found in column of connections. 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.

13
353
0.47

89-49
44-53
89-50

189-66
185-45
75-35

27

179-60
179-50
20-70

1607.50
109.10
47+16.90

29+75
164.90

36+39.90

ENGINEERING DEPARTMENT,
CITY OF CALIFORNIA, SAN DIEGO.



1181.50
28.50
29.85

71 + 24.11 = EC

PI 8+56.2
47042 RT

25.25

Culv 2+50. SP 2-A
H.C. Hilbourne A.F.
Albome, Frank
Remmen, A.L.

21
2.10
264.10
23.36
11.47
11.69

Mon 8'e. Elina Midway. U.S.C.P. 16.00
100' N.W. PT Loma Blvd & Carseway 12.07
R.R. spike Elec 945-C. 11.68
S.F. Bridge 21.71

686.
198.13

1207