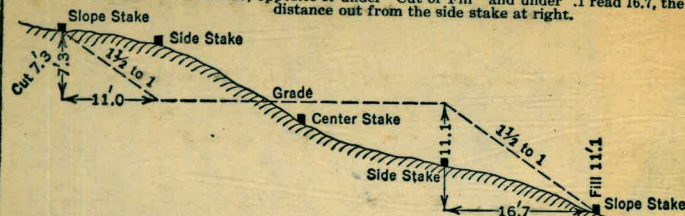


MISSION BAY

63

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |

KEUFFEL & ESSER CO., N. Y.

MICROFILMED

JAN 7 1965

The paper in this book No. 373A
is made of 50% high grade rag stock
with a WATER RESISTING surface sizir g.

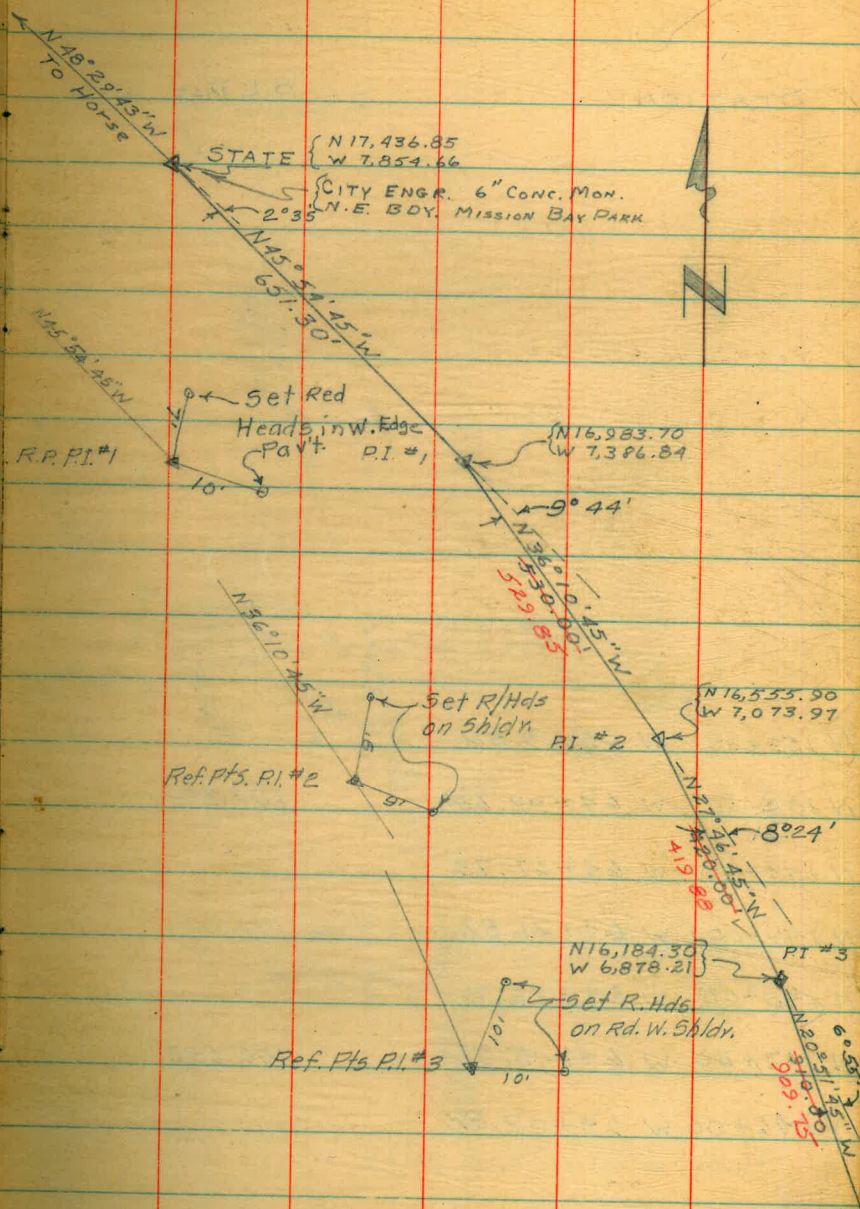
| PAGE | INDEX | DATE |
|-------|---|----------|
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| 6 | CHECK ON LOCATION OF MON "STATE" PROJ 3.1 | 12-14-50 |
| 8 | CHECK LEVELS BOND TO STATE | 1-15-51 |
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| 57-61 | Location - Pressure Sewer DeAnza Point & VICINITY | 7-8-52 |
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| 63 | RESET MON. STATE | 10-17-52 |
| 64 | LEVELS 8" SEWER | 11-13-52 |
| 65-66 | BDY. SURVEY MISSION BAY GOLF COURSE LEASE | 7-1-54 |

MISSION BAY

PROJECT #65031 BASELINE

ALONG WLY. SIDE PACIFIC HI-WAY

DEC. 12, 1950



Dec. 12, 1950

(2)

STATION

B.L. Dist.

N 152+00 W 65+19.56

N 151+00 W 64+93.65

103.304

N 150+00 W 64+67.73

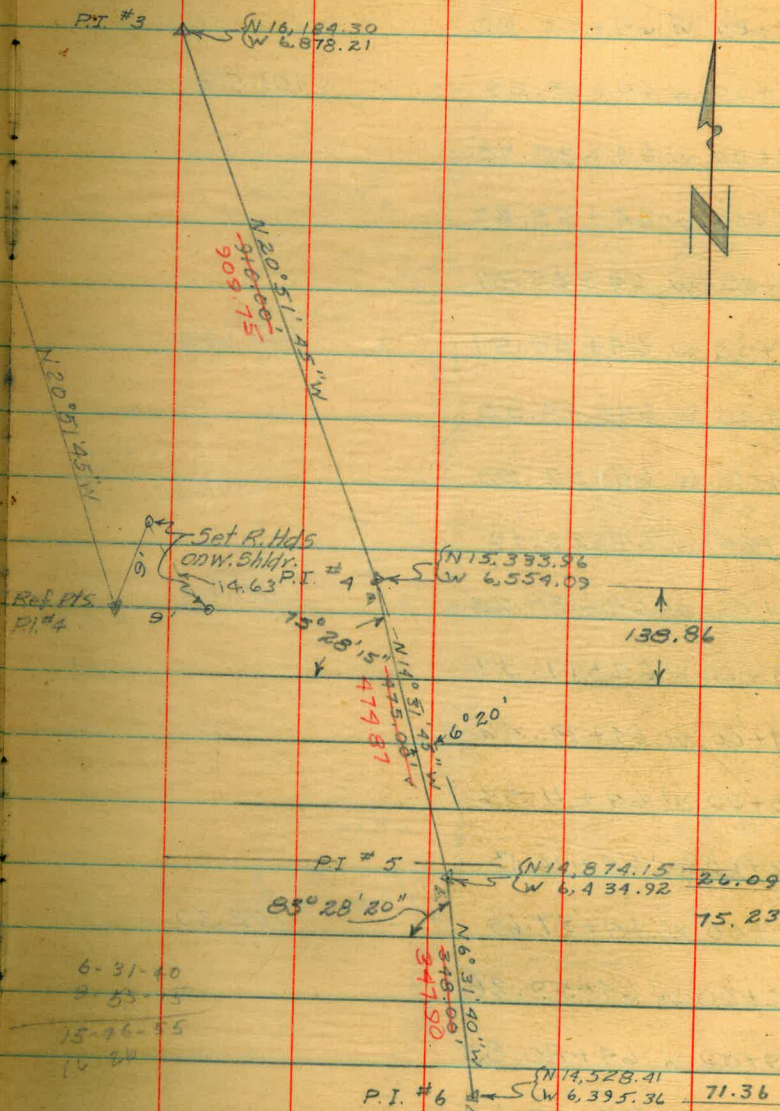
N 149+00 W 64+41.82

N 148+00 W 64+26.71

N 147+00 W 64+15.26

100.652

N 146+00 W 64+03.82

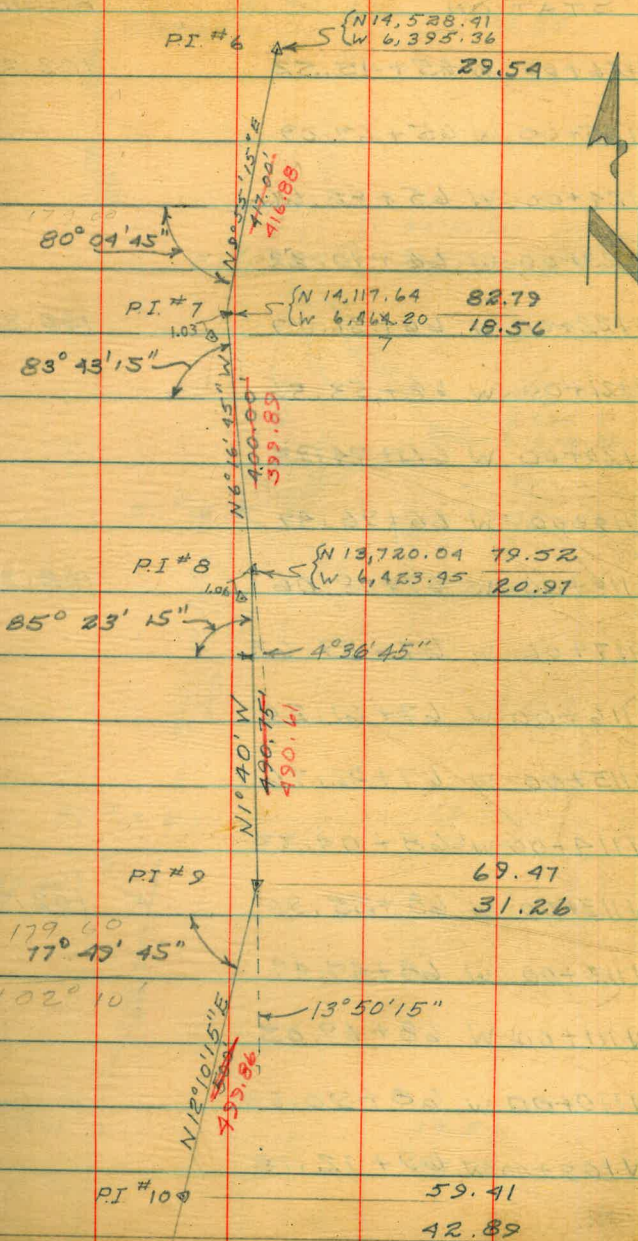


| STATION | B.L. Dist |
|---------------------|-----------|
| N 145+00 W 64+00.80 | |
| N 144+00 W 64+18.29 | 101.518 |
| N 143+00 W 64+35.78 | |
| N 142+00 W 64+53.27 | |
| N 141+00 W 64+65.51 | |
| N 140+00 W 64+54.51 | 100.603 |
| N 139+00 W 64+43.50 | |
| N 138+00 W 64+32.50 | |
| N 137+00 W 64+23.19 | |
| N 136+00 W 64+20.28 | 100.04 |
| N 135+00 W 64+17.37 | |
| N 134+00 W 64+14.46 | |
| N 133+00 W 64+11.56 | |
| N 132+00 W 64+16.13 | |
| N 131+00 W 64+37.69 | 102.30 |
| N 130+00 W 64+59.26 | |
| N 129+00 W 64+80.83 | |
| N 128+00 W 65+02.40 | |
| N 127+00 W 65+23.95 | |

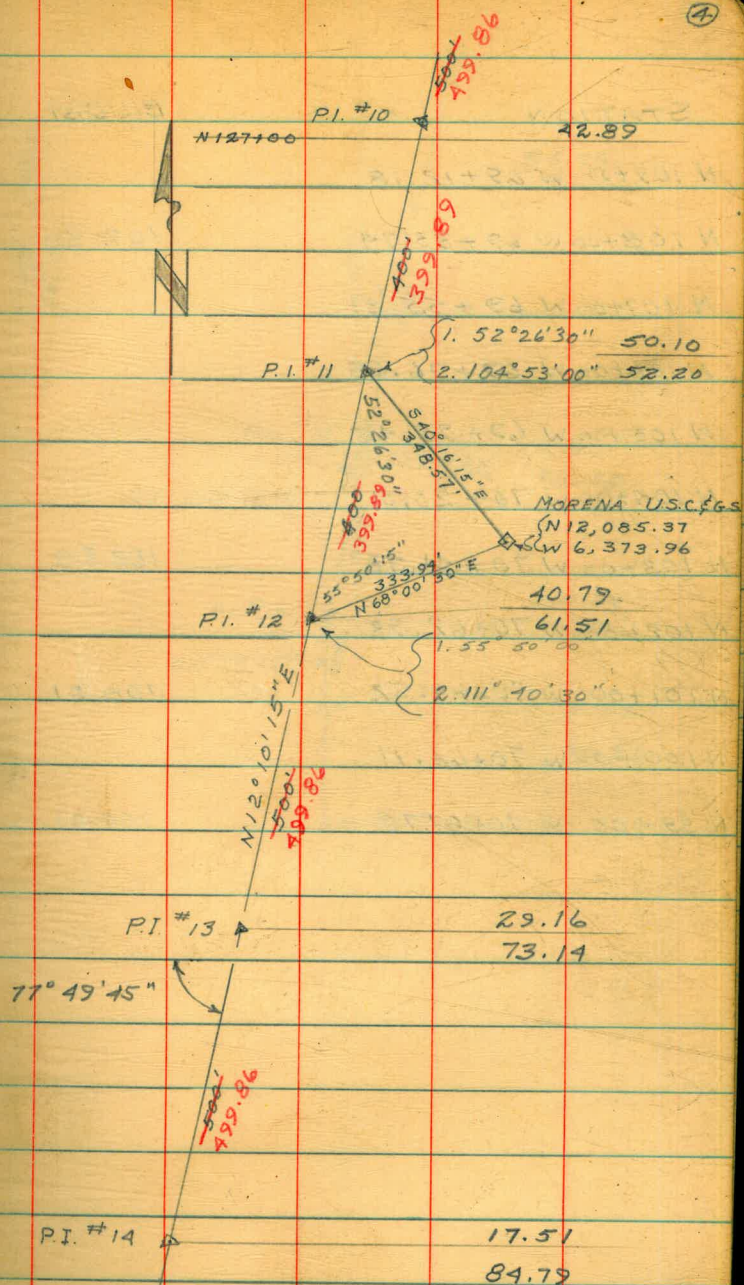
83-43

96-17

(3)

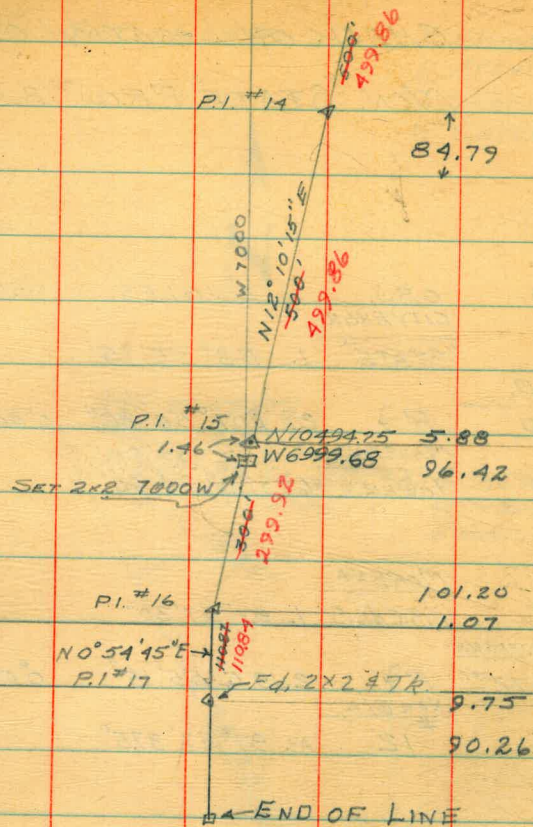


| STATION | B.L. Dist. |
|--------------------|------------|
| N126+00 W 65+45.52 | 102.30 |
| N125+00 W 65+67.09 | |
| N124+00 W 65+88.66 | |
| N123+00 W 66+10.22 | |
| N122+00 W 66+31.79 | 102.30 |
| N121+00 W 66+53.36 | |
| N120+00 W 66+74.93 | |
| N119+00 W 66+96.49 | |
| N118+00 W 67+18.06 | 102.30 |
| N117+00 W 67+39.63 | |
| N116+00 W 67+61.20 | |
| N115+00 W 67+82.76 | |
| N114+00 W 68+04.33 | |
| N113+00 W 68+25.90 | 102.30 |
| N112+00 W 68+47.47 | |
| N111+00 W 68+69.03 | |
| N110+00 W 68+90.60 | |
| N109+00 W 69+12.18 | |



| STATION | B.L. DIST. |
|---------------------|------------|
| N 109+00 W 69+12.18 | |
| N 108+00 W 69+33.74 | 102.30 |
| N 107+00 W 69+55.31 | |
| N 106+00 W 69+76.88 | |
| N 105+00 W 69+98.45 | |
| N 104+00 W 70+20.01 | |
| N 103+00 W 70+41.58 | 102.30 |
| N 102+00 W 70+62.93 | |
| N 101+00 W 70+64.52 | 100.01 |
| N 100+00 W 70+66.11 | |
| N 99+00 W 70+67.70 | 100.01 |

89 59 20
59 45
89 05 15



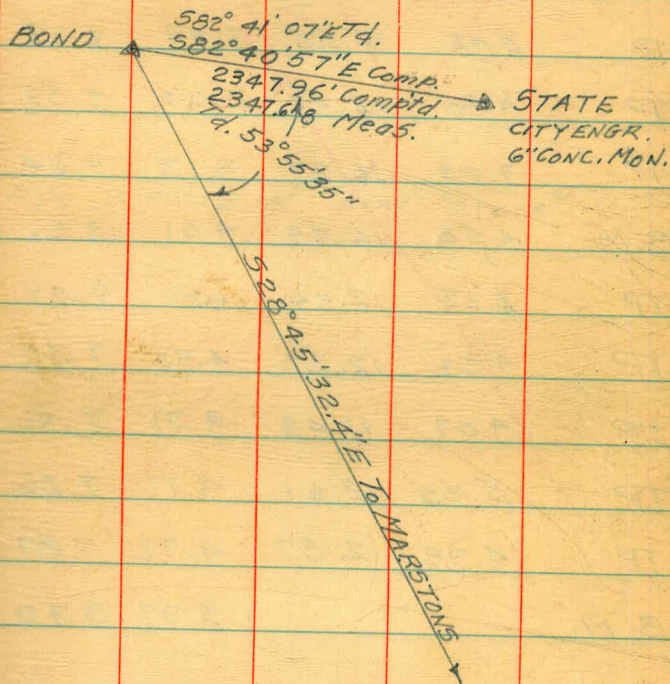
CHECK ON LOCATION OF
MON. "STATE" PROJ #3.1

Dec. 14, 1950

⑥
T. Stamper
H. Brown
A. Sherry
W. Carver

| STA | OBJ. | ANGLES | VERNIER MEAN |
|-----------------------|----------------|----------------------------|--|
| | CITY ENGR. | | |
| | "STATE" | 1. $53^{\circ}55'15''$ | |
| U.S.E.D. | | | |
| BOND | R ₁ | 2. $107^{\circ}50'30''$ | $0^{\circ}00'00''$ $53^{\circ}55'40''$ ^{135"} |
| | MARSTONS | 3. $33'30''$ T. | |
| | TOWER | 6. $323^{\circ}34'00''$ H. | |
| | MORENA | | |
| | U.S.C. 46.5 | 1. $97^{\circ}57'30''$ | DIST. |
| CITY ENGR. TRANSVERSE | | | |
| 102+72.70 | R ₁ | 2. $195^{\circ}55'15''$ | $0^{\circ}00'00''$ 158.71 |
| | NEW B/L | | |
| | # 12 | AV. $97^{\circ}57'37.5''$ | |

96
2347.68
55
2348.23 .27



LEVELS DE ANZA B/L

(7)

| STA | + | H.I | - | ELEV. | |
|-------------|------|--------|-------|-------|--------|
| B.M. | 4.14 | 12.944 | | 8.804 | "BOND" |
| S TP | 4.97 | 12.62 | 5.284 | 7.650 | |
| TP | 3.74 | 11.07 | 5.29 | 7.33 | |
| U.S. BO TP | 5.42 | 12.55 | 3.94 | 7.13 | |
| TP | 4.85 | 12.37 | 5.03 | 7.52 | |
| TP | 7.03 | 16.27 | 3.13 | 9.24 | |
| B.M. | 4.53 | 16.79 | 4.01 | 12.26 | |
| CITY 10. TP | 2.35 | 12.34 | 6.80 | 9.99 | |
| TP | 4.52 | 12.27 | 4.59 | 7.75 | |
| TP | 4.07 | 11.43 | 4.91 | 7.36 | |
| TP | 5.35 | 12.61 | 4.17 | 7.26 | |
| TP | 4.98 | 12.87 | 4.72 | 7.89 | |
| B.M. | | | 3.97 | 8.90 | "BOND" |

BRASS PLUG CITY B.M. NEAR "STATE"

CHECK LEVELS "BOND"

"TO STATE"

AT BROWN
SHERRY

1-15-51 (8)

STA + H.I. - ELEV.

B.M. 4.634 13.438 8.804

TP 5.735 12.739 6.434 7.004

TP 4.175 11.472 5.442 7.297

TP 5.985 12.867 4.590 6.882

TP 4.951 12.238 5.580 7.287

TP 5.726 16.230 1.734 10.504

B.M.

4.230 12.000

BRASS
PLUG MON.

CITY B.M. NEAR "STATE"

LEVELS FOR DE ANZA B/L

★ BROWN
SHERRY

1-16-51

9

| STA | + | H.I. | - | ELEV |
|-----|-------|--------|-------|--------|
| B.M | 4.880 | 16.880 | | 12.000 |
| TP | 4.325 | 16.963 | 4.242 | 12.638 |
| TP | 4.835 | 16.638 | 5.160 | 11.803 |
| TP | 5.231 | 16.189 | 5.680 | 10.958 |
| TP | 6.075 | 16.972 | 5.292 | 10.897 |
| TP | 6.255 | 17.963 | 5.264 | 11.708 |
| TBM | | | 4.862 | 13.101 |
| TP | 5.082 | 16.744 | 6.301 | 11.662 |
| TP | 5.720 | 16.561 | 5.903 | 10.841 |
| TP | 6.105 | 16.821 | 5.845 | 10.716 |
| TP | 5.183 | 17.035 | 4.969 | 11.852 |
| TP | 6.030 | 18.724 | 4.341 | 12.694 |
| TP | | | 6.575 | 12.149 |

BRASS PLUG CITY B.M. NEAR "STATE"

P.I #4 WEST H.W 101 B/L

BENCH LEVELS DEANZA B/L.

Jan. 17, 1951

(10)

Sta. + H.I. - Elev.

B.M. 20.682

2.688 23.370

TP. 7.630 15.740

136N 1.168 16.908 8.710 8.198

138N 7.720 9.188

TP. 7.100 9.808

3.827 13.635

140N 3.445 10.190

TP. 1.518 12.117

6.780 18.897

TP. 5.100 13.797

3.791 17.588

TP.
P.I. #4 4.703 12.885

5.109 17.994

152N 5.081 12.913

151N 5.405 12.589

150N 4.725 13.269

149N 4.350 13.644

TP.
P.I. #5 4.170 13.824

U.S.C. & G.S. D-132 4⁷/₈' E. of $\frac{1}{2}$ of Wly Track #25'
 S. of $\frac{1}{2}$ of Jelliff St. 6" x 6" Conc. Mon.

BENCH LEVELS CONTD.

Jan. 17, 1951

(11)

| Sta | + | H.I. | - | Elev. | |
|---------|-------|--------|-------|--------|---------|
| TBM. | | | | 13.824 | P.I. #5 |
| | 5.212 | 19.036 | | | |
| 148 N | | | 5.045 | 13.991 | |
| 147 N | | | 4.930 | 14.106 | |
| 146 N | | | 4.868 | 14.168 | |
| TP. | | | | | |
| P.I. #6 | | | 5.015 | 14.021 | |
| | 2.490 | 16.511 | | | |
| TP. | | | 7.429 | 9.082 | |
| | 5.602 | 14.684 | | | |
| 141 N | | | 5.870 | 8.814 | |
| 140 N | | | 4.485 | 10.199 | |
| 139 N | | | 4.523 | 10.161 | |
| 138 N | | | 5.469 | 9.215 | |

REFERENCE POINTS TO MON

"STATE" 6" CONC. MON. ON NLY.

BDY. MISSION BAY STATE PARK

& WLY. LINE OF PACIFIC HI-WAY

Jan. 18, 1951.

12 (12)

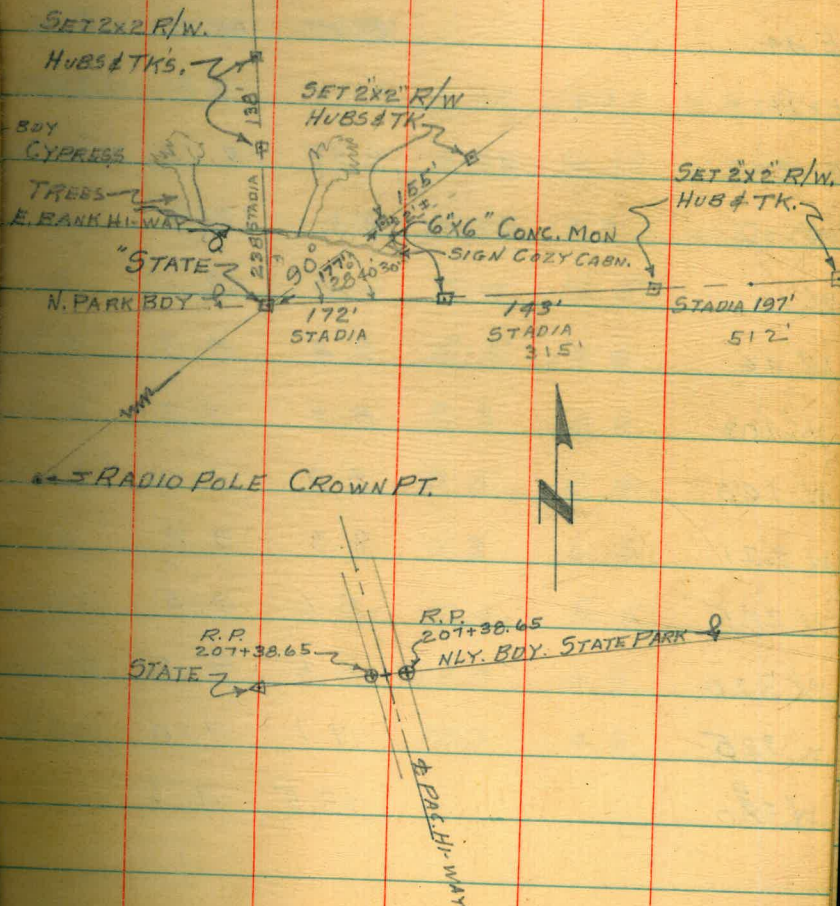
T. Stamper
E. Watson
H. Brown
A. Sherry

| Sta. | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|---|
| B.M. | | | | 12.00 | CITY B.M. NEAR STATE TOP BRASS PLUG |
| | 6.81 | 18.81 | | | |
| B.M. | | | 1.74 | 17.07 | MK 08.23 6"X6" CONC. MON. E. SIDE HI-WAY N.E. COR. TEL. POLE |

NOTE: This Mon. Reset See Pg. 63

CLUSTER OF THREE
POWER POLES

NOTE Ref. Pts. are Stadia for
future location of Hubs
only.



ORIGINAL
CROSS SECTIONS OF DREDGING

AREA JELLETT PT. PROJ. NO 64030

Jan. 19, 1951

(13)

T. Stampel
E. Watson
H. Brown
A. SHERRY

Sta + H.I. - Elev.
T.B.M. 12.88

See pg 10
Top 2x2 R.I.

5.18 18.06

Sta 152+00 N

Sta. 151+00 N

Sta + H.I. - Elev.
T.B.M. 12.91

TOP Hub
Sta 152+00 N

E 44 3.30 14.76 W. Profile

E 11 4.19 13.87 W. Top Pav.

E 8 4.93 13.13 W. Toe Pav.

0 5.2 12.9

W 10 6.0 12.1

W 46 9.8 8.3

W 103 8.9 9.2

W 160 8.9 9.2

W 221 8.3 9.8

W 285 8.6 9.5

W 320 8.5 9.6

W 325 11.1 7.0

W 320 13.5 4.6

5.02 17.93

E 45 2.86 15.07 W. Profile

E 13 3.83 14.10 W. Top Pav.

E 9 4.63 13.30 W. Toe Pav.

0 5.4 12.5

W 7 5.5 12.4

W 15 7.3 10.6

W 42 9.5 8.4

W 46 11.3 6.6

W 111 12.4 5.5

W 173 13.0 4.9

W 241 13.3 4.6

PX

CROSS SECTIONS CONTD

Jan. 19, 1951

(29)

PX

| Sta | + | H.I | - | Elev | |
|--------------|------|-------|------|-------|---------------------|
| T.B.M. | 5.58 | 18.17 | | 12.59 | TOP 2x2 151+00 N |
| Sta 150+00 N | | | | | |
| E 44 | | | 2.90 | 15.27 | W. Profile |
| E 11 | | | 3.84 | 14.33 | W. Top Pav. |
| E 7 | | | 4.62 | 13.55 | W. Toe |
| 0 | | | 5.0 | 13.2 | |
| W 13 | | | 5.1 | 13.1 | |
| W 17 | | | 8.4 | 9.8 | |
| W 34 | | | 9.8 | 8.4 | |
| W 35 | | | 11.1 | 7.1 | |
| W 64 | | | 12.8 | 5.2 | |

| Sta | + | H.I | - | Elev. | |
|--------|-------|-----|------|-------|---------------------|
| T.B.M. | | | | 13.27 | Top Hub 150+00 N |
| 5.37 | 18.64 | | | | |
| E 39 | | | 3.05 | 15.59 | W. Profile |
| E 7 | | | 4.05 | 14.59 | W. Top Pav. |
| E 5 | | | 4.90 | 13.74 | W. Toe Pav. |
| 0 | | | 5.2 | 13.4 | |
| W 12 | | | 5.1 | 13.5 | |
| W 31 | | | 12.1 | 6.5 | |
| W 68 | | | 14.6 | 4.0 | |

CROSS SECTIONS CONTD.

PX

Sta. 148+00 N.

| Sta | + | H.I | - | Elev | TOP HUB |
|--------|------|-------|------|-------|-------------|
| T.B.M. | | | | 13.64 | 149+00 |
| | 5.34 | 18.98 | | | |
| E 44 | | | 3.14 | 15.84 | W. Profile |
| E 12 | | | 4.04 | 14.94 | W. TOP Pav. |
| E 9 | | | 4.74 | 14.24 | W. Toe Pav. |
| 0 | | | 5.0 | 14.0 | |
| W 10 | | | 4.9 | 14.1 | |
| W 14 | | | 6.3 | 11.7 | |
| W 22 | | | 12.5 | 5.5 | |
| W 45 | | | 14.9 | 3.1 | |

Jan. 19, 1951

(15)

Sta. 147+00 N

27

| Sta | + | H.I | - | Elev. | TOP HUB |
|--------|------|-------|------|-------|-------------|
| T.B.M. | | | | 13.99 | 148+00 N |
| | 4.96 | 18.95 | | | |
| E 50 | | | 2.97 | 15.98 | W. Profile |
| E 18 | | | 3.93 | 15.02 | W. TOP Pav. |
| E 15 | | | 4.45 | 14.50 | W. Toe Pav. |
| 0 | | | 5.0 | 14.0 | |
| W 7 | | | 5.6 | 13.4 | |
| W 13 | | | 11.4 | 7.6 | |
| W 37 | | | 14.8 | 4.2 | |
| W 75 | | | 15.5 | 43.5 | |

9+

CROSS SECTIONS CONTD

Sta. 146+00 N

Sta.

Jan 19, 1951
Sta. 145+00 N

24 (16)

| | Sta. | + | H.I. | - | Elev. | | + | H.I. | - | Elev. | |
|---|--------|------|-------|------|-------|-----------------|------|-------|------|-------|--|
| | Sta | + | H.I. | - | Elev. | T.B.M. | | | | | TOP Hub |
| | T.B.M. | | | | 14.11 | 147+00 N | 3.25 | 17.42 | | | 14.17 146+00 N |
| | | 5.27 | 19.38 | | | E 63 | | | 1.78 | 15.64 | W. Profile |
| E | E 54 | | | 3.42 | 15.96 | W. Profile E 30 | | | 2.74 | 14.68 | W. TOP Pav. |
| E | E 22 | | | 4.40 | 14.98 | W. TOP Pav E 20 | | | 3.4 | 14.0 | |
| E | E 19 | | | 4.91 | 14.47 | W. TOP Pav E 17 | | | 2.7 | 14.7 | |
| | 0 | | | 5.3 | 14.1 | E 5 | | | 3.8 | 13.6 | |
| W | W 5 | | | 6.2 | 13.2 | 0 | | | 5.2 | 12.2 | |
| W | W 14 | | | 13.3 | 6.1 | W 3 | | | 5.6 | 11.8 | |
| W | W 41 | | | 15.4 | 4.0 | W 8 | | | 11.2 | 6.2 | |
| W | | | | | | W 55 | | | 13.7 | 3.7 | |
| | | | | | | T.B.M. | | | 8.03 | 9.39 | TOP 2x2 TOP BANK OPP Sta. 144 N. |

PT

CROSS SECTIONS CONTD.

Jan. 22, 1951

(17)

Sta. 144+00 N

At Pt. 30' E. of B/L.

| Sta. | + | H.I. | - | Elev | See Pg |
|--------|------|-------|------|-------|------------|
| T.B.M. | | | | 9.39 | 16 |
| | 7.33 | 16.72 | | | |
| E 60 | | | 1.28 | 15.44 | W. Profile |
| E 28 | | | 2.05 | 14.67 | W. Top P. |
| E 17 | | | 3.0 | 13.7 | |
| E 13 | | | 2.6 | 14.1 | |
| E 6 | | | 3.2 | 13.5 | |
| E 2 | | | 4.8 | 11.9 | |
| 0 | | | 5.1 | 11.6 | |
| W 18 | | | 7.0 | 9.7 | |
| W 21 | | | 9.5 | 7.2 | |
| W 30 | | | 10.9 | 5.8 | |
| W 51 | | | 11.9 | 4.8 | |
| T.B.M. | 1.27 | 10.66 | | 9.39 | |
| W 90 | | | 7.3 | 3.4 | |
| W 144 | | | 7.1 | 3.6 | |

4x

CROSS SECTIONS CONTD

Sta. 143+00 N

@ Pt. 36' East of Baseline

Sta. + H.I. - Elev.

TBM

9.39

TOP 2x3
Slope 1/6

6.52 15.91

E 78

0.84

15.07

W. Profile W 2

5.7

7.3

E 46

1.65

14.26

W. Top Profile W 18

7.4

5.6

E 37

2.5

13.4

W 60

7.4

5.6

E 28

1.4

14.5

W 63

8.6

4.4

E 21

1.7

14.2

W 70

7.7

5.3

0

5.4

10.5

W 107

8.1

4.9

W 24

6.8

9.1

W 170

9.2

3.8

Set Str.

W 29

9.2

6.7

E 22

3.1

9.9

Trees

W 36

10.2

5.7

TBM

8.27 17.66

9.39

W 93

11.1

4.8

E 52

6.8

10.9

W 128

10.8

5.1

E 75-

5.1

12.6

W 188

11.5

4.4

E 82

4.2

13.5

W 212

12.1

3.8

E 95

4.9

12.8

170' BL.

Set Sta E 104.5

3.84

13.82

W. Top Profile

E 134.5

2.82

14.84

W. Profile

18

4x

Jan. 22, 1951

Sta. 142+00 N

Sta. + H.I. - Elev.

TBM

9.39

3.58

13.0
12.97

0

3.9

9.1

pt

CROSS SECTIONS CONTD

Jan 22, 1951

px

Sta 141+00 N

Sta. 140+00 N

| Sta | + | H.I | - | Elev |
|--------|------|-------|---|------|
| T.B.M. | | | | 8.81 |
| | 5.26 | 14.07 | | |

TOP 2x2

141+00 N

| Sta | + | H.I | - | Elev. |
|--------|------|-------|---|-------|
| T.B.M. | | | | 10.20 |
| | 5.10 | 15.30 | | |

TOP 2x2

140+00 N

E 57 2.7 11.4

E 26 4.3 9.8

0 5.3 8.8

W 8 5.6 8.5

W 11 6.8 7.3

W 20 7.8 6.3

W 40 7.7 6.4

W 43 9.3 4.8

W 47 7.6 6.5

W 83 8.7 5.4

W 108 8.5 5.6

W 140 9.8 4.3

E 90 9.35 18.16 8.81

E 90 5.9 12.3

E 106 4.7 13.5

E 119 4.56 13.60

E 153 3.61 14.55

E 146 0.92 14.38

E 106 2.00 13.30

E 90 2.5 12.8

E 43 4.3 11.0

0 5.1 10.2

W 21 6.1 9.2

W 27 8.2 7.1

W 67 9.3 6.0

W 73 8.3 7.0

W 102 9.5 5.8

W 120 9.5 5.8

W 144 11.1 4.2

W 175 12.3 3.0

W. Profile

W.E. Pav.

Set Str.

W.E. Pav.

W. Profile

CROSS SECTIONS CONTD

Jan 22, 1951

(20)

PX

Sta. 139+00 N.

Sta. 138+00 N

| Sta. | + | H.I. | - | Elev. | Sta. | + | H.I. | - | Elev. |
|--------|------|-------|------|-------|---------------|------|-------|-------|------------|
| T.B.M. | | | | 10.16 | T.B.M. | | | | 9.19 |
| | 5.30 | 15.46 | | | | 5.39 | 14.58 | | |
| E 30 | | | 4.5 | 11.0 | E 122 | | 0.74 | 13.84 | W. Profile |
| 0 | | | 5.3 | 10.2 | E 76 | | 1.87 | 12.71 | W.E. Pav. |
| W 25 | | | 6.3 | 9.2 | E 67 | | 1.9 | 12.7 | |
| W 30 | | | 8.8 | 6.7 | E 54 | | 3.2 | 11.4 | |
| W 68 | | | 8.6 | 6.9 | E 17 | | 4.4 | 10.2 | |
| W 100 | | | 10.3 | 5.2 | 0 | | 5.5 | 9.1 | |
| W 120 | | | 10.3 | 5.2 | W 29 | | 6.1 | 8.5 | |
| W 130 | | | 9.9 | 5.6 | Set Str. W 39 | | 7.7 | 6.9 | |
| W 155 | | | 12.0 | 3.5 | W 56 | | 9.5 | 5.1 | |
| T.B.M. | 8.28 | 18.44 | | 10.16 | W 93 | | 10.3 | 4.3 | |
| E 62 | | | 6.6 | 11.8 | W 96 | | 8.9 | 5.7 | |
| E 82 | | | 5.0 | 13.4 | W 112 | | 9.7 | 6.9 | |
| E 92 | | | 5.38 | 13.08 | W 110 | | | | Set Str. |
| 133 | | | 4.33 | 14.11 | W 127 | | 11.0 | 3.6 | |

PX

CROSS SECTIONS CONTD

Sta. 137+00 N.

| Sta. | + | H.I. | - | Elev. | TOP 2x2 |
|--------|------|------|------|-------|-------------------|
| T.B.M. | | | | 8.20 | 136+00 N |
| | 5.94 | 14 | .14 | | |
| E108 | | | 0.69 | 13.45 | W. Profile E 98 |
| E 63 | | | 1.74 | 12.40 | W. Edge Pav. E 56 |
| E 44 | | | 4.0 | 10.1 | E 47 |
| 0 | | | 5.1 | 9.0 | E 36 |
| W 14 | | | 5.7 | 8.4 | 0 |
| W 15 | | | 6.6 | 7.5 | W 14 |
| W 23 | | | 6.7 | 7.4 | W 23 |
| W 24 | | | 7.4 | 6.7 | W |
| W 34 | | | 8.7 | 5.4 | |

Jan. 23, 1951

(21)

PX

Sta. 136+00 N

| Sta. | + | H.I. | - | Elev. | TOP 2x2 |
|--------|------|-------|------|-------|--------------|
| T.B.M. | | | | 8.20 | 136+00 N |
| | 5.23 | 13.43 | | | |
| | | | 0.11 | 13.32 | W. Profile |
| | | | 1.26 | 12.17 | W. Edge Pav. |
| | | | 2.0 | 11.4 | |
| | | | 3.7 | 9.7 | |
| | | | 5.3 | 8.1 | |
| | | | 5.9 | 7.5 | |
| | | | 7.8 | 5.6 | |

CROSS SECTIONS CONT'D

Sta. 135+00 N

| Sta | + | H.I. | - | Elev. |
|------|------|-------|---|-------|
| TBM. | | | | 8.20 |
| | 5.88 | 14.08 | | |

| | | | | |
|------|--|------|-------|--------------|
| E 85 | | 0.99 | 13.09 | W. Profile |
| E 46 | | 2.05 | 12.03 | W. Edge Pav. |
| E 37 | | 2.8 | 11.3 | |
| E 23 | | 5.1 | 9.0 | |
| 0 | | 5.4 | 8.7 | |
| W 12 | | 5.6 | 8.5 | |
| W 15 | | 7.5 | 6.6 | |
| W 25 | | 8.5 | 5.6 | |

| | | | | |
|-----|--|------|------|-------------------|
| TP. | | 4.58 | 9.50 | TOP 2x2 134+00 |
|-----|--|------|------|-------------------|

Jan. 23, 1951

Sta. 134+00 N

| Sta | + | H.I. | - | Elev. |
|------|------|-------|---|-------|
| TBM. | | | | 8.20 |
| | 6.56 | 14.76 | | |

| | | | | |
|------|--|------|-------|--------------|
| E 70 | | 1.97 | 12.79 | W. Profile |
| E 34 | | 3.08 | 11.68 | W. Edge Pav. |
| E 23 | | 3.8 | 11.0 | |
| E 13 | | 5.4 | 9.4 | |
| 0 | | 5.3 | 9.5 | |
| W 27 | | 6.1 | 8.7 | |
| W 28 | | 7.2 | 7.6 | |
| W 42 | | 9.3 | 5.5 | |

| | | | | |
|-----|--|------|-------|---------------------|
| TP. | | 6.04 | 8.72 | TOP 2x2 135+00 N |
| TP. | | 5.44 | 9.32 | TOP 2x2 133+00 N |
| TP. | | 4.41 | 10.35 | TOP 2x2 132+00 N |

OK ✓

PX

CROSS SECTIONS CONT'D.

Sta. 133+00 N

| Sta. | + | H.I. | - | Elev. | |
|--------|------|-------|------|-------|---------------------|
| T.B.M. | | | | 9.50 | Top 2x2 134+00 N |
| | 4.94 | 14.44 | | | |
| E 54 | | | 1.92 | 12.52 | W. Profile |
| E 19 | | | 2.94 | 11.50 | W. Edge Pav. |
| E 4 | | | 4.4 | 10.0 | |
| 0 | | | 5.1 | 9.3 | |
| W 8 | | | 6.2 | 8.2 | |
| W 22 | | | 6.9 | 7.5 | |
| W 26 | | | 8.3 | 6.1 | |
| W 41 | | | 8.3 | 6.1 | |
| W 53 | | | 9.0 | 5.4 | |

Jan. 23, 1951

(23)

PX

Sta. 132+00 N

| Sta. | + | H.I. | - | Elev. | |
|--------|------|-------|------|-------|---------------------------------|
| T.B.M. | | | | 9.32 | Top 2x2 133+00 N |
| | 6.45 | 15.77 | | | |
| E 42 | | | 3.47 | 12.30 | W. Profile |
| E 9 | | | 4.55 | 11.22 | W. Edge Pav. |
| 0 | | | 5.4 | 10.4 | |
| W 7 | | | 5.7 | 10.1 | |
| W 13 | | | 7.5 | 8.3 | |
| W 25 | | | 9.1 | 6.7 | |
| W 82 | | | 9.2 | 6.6 | |
| W 120 | | | 9.6 | 6.2 | |
| W 168 | | | 11.2 | 4.6 | |
| W 170 | | | | | |
| TP | | | 4.67 | 11.10 | Set Str. Top 2x2 131+00 N |

CROSS SECTIONS CONT'D.

Jan. 23, 1951

(29)

Sta. 131+00 N

Sta. 130+00 N

| Sta. | + | H.I. | - | Elev. | Sta. | + | H.I. | - | Elev. |
|-------|------|-------|------|-------|-------|------|-------|------|-------|
| TBM. | | | | 10.35 | TBM. | | | | 10.35 |
| | 5.55 | 15.90 | | | | 5.08 | 15.43 | | |
| E 45 | | | 3.87 | 12.03 | E 45 | | | 3.68 | 11.75 |
| E 12 | | | 4.83 | 11.07 | E 13 | | | 4.65 | 10.78 |
| 0 | | | 4.8 | 11.1 | 0 | | | 5.3 | 10.1 |
| W 12 | | | 6.8 | 9.1 | W 21 | | | 6.1 | 9.3 |
| W 56 | | | 8.4 | 7.5 | W 30 | | | 7.3 | 8.1 |
| W 103 | | | 9.2 | 6.7 | W 48 | | | 7.6 | 7.8 |
| W 118 | | | 9.9 | 6.0 | W 84 | | | 8.5 | 6.9 |
| W 172 | | | 11.5 | 4.4 | W 115 | | | 10.2 | 5.2 |
| W 170 | | | | | W 135 | | | 11.1 | 4.3 |
| | | | | | W 140 | | | | |
| | | | | | TP. | | | 5.12 | 10.31 |
| | | | | | TP. | | | 5.00 | 10.43 |
| TP. | | | 5.70 | 10.20 | | | | | |

TOP 2X2

132+00N

TOP 2X2

130+00N

TOP 2X2

132+00N

W. Profile

W. Edge Pav.

Set Stk.

TOP 2X2

129+00N

TOP 2X2

128+00N

CROSS SECTIONS CONT'D.

Sta. 129+00 N

| Sta | + | H.I. | - | Elev. |
|-------|------|-------|------|-------|
| TBM. | | | | 10.20 |
| | 5.44 | 15.64 | | |
| E 46 | | | 3.96 | 11.68 |
| E 14 | | | 4.67 | 10.97 |
| 0 | | | 5.4 | 10.2 |
| W 11 | | | 6.0 | 9.6 |
| W 15 | | | 8.7 | 6.9 |
| W 31 | | | 9.5 | 6.1 |
| W 61 | | | 9.8 | 5.8 |
| W 99 | | | 11.6 | 4.0 |
| W 100 | | | | |

Set Sta.

Jan. 23, 1951

(25)

Sta. 128+00 N

| Sta | + | H.I. | - | Elev. |
|------|------|-------|------|-------|
| TBM. | | | | 10.31 |
| | 5.32 | 15.63 | | |
| E 46 | | | 3.70 | 11.93 |
| E 13 | | | 4.41 | 11.22 |
| 0 | | | 5.3 | 10.3 |
| W 10 | | | 6.2 | 9.4 |
| W 14 | | | 8.6 | 7.0 |
| W 37 | | | 10.3 | 5.3 |
| W | | | | |
| TP. | | | | |
| | 5.34 | 10.29 | | |

TOP 2X2
129+00 N

W. Profile

W. Edge Par.

11:10 A.M.
Tide LineTOP 2X2
127+00 N

CROSS SECTIONS CONT'D.

Jan 23, 1951

(26)

Sta. 127+00 N

Sta. 126+00 N

| Sta. | + | H.I. | - | Elev. | | Sta. | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|---------------------|------|------|-------|------|-------|---------------------|
| TBM. | | | | 10.43 | TOP 2x2 128+00 N | TBM. | | | | 10.43 | TOP 2x2 128+00 N |
| | 5.05 | 15.48 | | | | | 5.32 | 15.75 | | | |
| E 45 | | | 3.32 | 12.16 | W. Profile | E 46 | | | 3.37 | 12.38 | W. Profile |
| E 13 | | | 4.11 | 11.37 | W. Edge Pav. | E 13 | | | 4.37 | 11.38 | W. Edge Pav. |
| 0 | | | 5.2 | 10.3 | | 0 | | | 5.3 | 10.4 | |
| W 9 | | | 5.6 | 9.9 | TOP Stone Wall | W 8 | | | 5.4 | 10.3 | |
| W 14 | | | 9.7 | 5.8 | Top S. Wall | W 12 | | | 8.8 | 7.0 | |
| W 27 | | | 10.4 | 5.1 | | W 27 | | | 11.2 | 4.5 | |
| | | | | | TOP 2x2 126+00 N | | | | | | |
| TP. | | | 4.70 | 10.78 | | TP. | | | 5.10 | 10.65 | TOP 2x2 125+00 N |
| | | | | | | TP. | | | 4.53 | 11.22 | TOP 2x2 124+00 N |

CROSS SECTIONS CONT'D.

Sta. 125+00 N.

| Sta. | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|---------------------|
| TBM. | | | | 10.29 | TOP 2x2 127+00 N |
| | 5.41 | 15.70 | | | |
| E 46 | | | 3.08 | 12.62 | W. Profile |
| E 13 | | | 4.10 | 11.60 | W. Top Pav. |
| 0 | | | 5.1 | 10.6 | |
| W 9 | | | 4.7 | 11.0 | |
| W 14 | | | 10.0 | 5.7 | |
| W 35 | | | 12.4 | 3.3 | |

Jan 23, 1951

(27)

Sta. 124+00 N.

| Sta. | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|---------------------|
| TBM. | | | | 10.65 | TOP 2x2 125+00 N |
| | 5.47 | 16.12 | | | |
| E 46 | | | 3.23 | 12.89 | W. Profile |
| E 13 | | | 4.00 | 12.12 | W. Edge Pav. |
| 0 | | | 5.1 | 11.0 | |
| W 7 | | | 4.9 | 11.2 | |
| W 13 | | | 9.7 | 6.4 | |
| W 36 | | | 12.9 | 3.2 | |
| TP. | | | 4.34 | 11.78 | TOP 2x2 123+00 N |

CROSS SECTIONS CONT'D.

Jan. 23, 1951

(28)

Sta. 123+00 N

Sta. 122+00 N

| Sta. | + | H.I. | - | Elev. | |
|--------|------|-------|------|-------|---------------------|
| T.B.M. | | | | 11.22 | TOP 2x2 124+00 N |
| | 5.54 | 16.76 | | | |
| E 46 | | | 3.65 | 13.11 | W. Profile |
| E 13 | | | 4.22 | 12.54 | W. Edge Pav. |
| E 4 | | | 5.2 | 11.6 | |
| 0 | | | 5.0 | 11.8 | |
| W 7 | | | 5.5 | 11.3 | |
| W 14 | | | 10.3 | 6.5 | |
| W 40 | | | 14.0 | 2.8 | |
| TP | | | 4.74 | 12.02 | TOP 2x2 122+00 N |

| Sta. | + | H.I. | - | Elev. | |
|--------|------|-------|------|-------|---------------------|
| T.B.M. | | | | 11.78 | TOP 2x2 123+00 N |
| | 5.37 | 17.15 | | | |
| E 46 | | | 3.83 | 13.32 | W. Profile |
| E 13 | | | 4.42 | 12.73 | W. Edge Pav. |
| E 4 | | | 5.3 | 11.8 | |
| 0 | | | 5.2 | 12.0 | |
| W 8 | | | 5.4 | 11.7 | |
| W 14 | | | 11.2 | 6.0 | |
| W 53 | | | 14.6 | 2.5 | |
| TP | | | 5.18 | 11.97 | TOP 2x2 121+00 N |

CROSS SECTIONS CONTD.

Jan. 23, 1951

(29)

Sta. 121+00 N

Sta. 120+00 N

| Sta | + | H.I | - | Elev. | TOP 2x2 |
|------|---|-----|---|-------|---------|
| TBM. | | | | 12.02 | 122+00N |

| Sta | + | H.I | - | Elev | TOP 2x2 |
|------|---|-----|---|-------|---------|
| TBM. | | | | 11.97 | 121+00N |

4.98 17.00

5.38 17.35

E 46 3.55 13.45 W Profile

E 45

3.79 13.36 W. Profile

E 13 4.10 12.90 W. Edge Pav.

E 12

4.38 12.97 W. Edge Pav.

0 5.1 11.9

0

5.2 12.1

W 8 5.1 11.9

W 9

4.9 12.4

W 15 11.5 5.5

W 15

12.2 5.1

W 40 14.3 2.7

W 38

14.5 2.8

TP

| Sta | + | H.I | - | Elev | TOP 2x2 |
|-----|---|-----|---|------|---------|
| | | | | 5.36 | 119+00N |

TP.

4.89 12.11 TOP 2x2 120+00N

CROSS SECTIONS CONT'D.

Jan. 23, 1951

(30)

Sta. 119+00 N

Sta. 118+00 N

| Sta | + | H.I. | - | Elev. | |
|-----|------|-------|---|-------|---------------------|
| TBM | | | | 12.11 | TOP 2x2 120+00 N |
| | 5.21 | 17.32 | | | |

| Sta | + | H.I. | - | Elev. | |
|-----|------|-------|---|-------|---------------------|
| TBM | | | | 11.99 | TOP 2x2 119+00 N |
| | 4.82 | 16.81 | | | |

| | | | | | |
|-----|--|--|------|-------|------------|
| E45 | | | 3.83 | 13.49 | W. Profile |
|-----|--|--|------|-------|------------|

| | | | | | |
|-----|--|--|------|-------|------------|
| E45 | | | 3.53 | 13.28 | W. Profile |
|-----|--|--|------|-------|------------|

| | | | | | |
|-----|--|--|------|-------|--------------|
| E12 | | | 4.38 | 12.94 | W. Edge Pav. |
|-----|--|--|------|-------|--------------|

| | | | | | |
|-----|--|--|------|-------|--------------|
| E12 | | | 4.09 | 12.72 | W. Edge Pav. |
|-----|--|--|------|-------|--------------|

| | | | | | |
|---|--|--|-----|------|--|
| 0 | | | 5.4 | 11.9 | |
|---|--|--|-----|------|--|

| | | | | | |
|---|--|--|-----|------|--|
| 0 | | | 5.1 | 11.7 | |
|---|--|--|-----|------|--|

| | | | | | |
|----|--|--|-----|------|--|
| W9 | | | 5.1 | 12.2 | |
|----|--|--|-----|------|--|

| | | | | | |
|----|--|--|-----|------|--|
| W9 | | | 4.5 | 12.3 | |
|----|--|--|-----|------|--|

| | | | | | |
|-----|--|--|------|-----|--|
| W15 | | | 12.0 | 5.3 | |
|-----|--|--|------|-----|--|

| | | | | | |
|-----|--|--|------|-----|--|
| W15 | | | 11.3 | 5.5 | |
|-----|--|--|------|-----|--|

| | | | | | |
|------|--|--|------|-----|--|
| W*39 | | | 14.5 | 2.8 | |
|------|--|--|------|-----|--|

| | | | | | |
|-----|--|--|------|-----|--|
| W40 | | | 13.9 | 2.9 | |
|-----|--|--|------|-----|--|

| | | | | | |
|----|--|--|------|-------|---------------------|
| TP | | | 5.65 | 11.67 | TOP 2x2 118+00 N |
|----|--|--|------|-------|---------------------|

| | | | | | |
|----|--|--|------|-------|---------------------|
| TP | | | 5.16 | 11.65 | TOP 2x2 117+00 N |
|----|--|--|------|-------|---------------------|

CROSS SECTIONS CONT'D

Sta 117+00 N

| Sta | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|--------------------|
| TBM. | | | | 11.67 | TOP 2x2 118+00N |
| | 5.05 | 16.72 | | | |
| E 45 | | | 3.67 | 13.05 | W. Profile |
| E 12 | | | 4.28 | 12.44 | W. Edge Pav. |
| 0 | | | 5.2 | 11.5 | |
| W 9 | | | 4.9 | 11.8 | |
| W 14 | | | 11.1 | 5.6 | |
| W 39 | | | 13.9 | 2.8 | |

| | | | | | |
|-----|--|--|------|-------|--------------------|
| TP. | | | 5.51 | 11.21 | TOP 2x2 116+00N |
|-----|--|--|------|-------|--------------------|

Jan 23, 1951

(31)

Sta. 116+00 N

| Sta | + | H.I. | - | Elev. | |
|------|------|-------|------|-------|--------------------|
| TBM. | | | | 11.65 | TOP 2x2 117+00N |
| | 4.84 | 16.49 | | | |
| E 45 | | | 3.70 | 12.79 | W. Profile |
| E 12 | | | 4.37 | 12.12 | W. Edge Pav. |
| 0 | | | 5.3 | 11.2 | |
| W 9 | | | 4.7 | 11.8 | |
| W 14 | | | 10.9 | 5.6 | |
| W 42 | | | 13.5 | 3.0 | |

| | | | | | |
|----|--|--|------|-------|--------------------|
| TP | | | 5.38 | 11.11 | TOP 2x2 115+00N |
|----|--|--|------|-------|--------------------|

CROSS SECTIONS CONTD

Sta. 115+00 N

| Sta | + | H.I | - | Elev | |
|-------|------|-------|------|-------|--------------------|
| TBM | | | | 11.21 | TOP 2X2 116+00N |
| | 5.00 | 16.29 | | | |
| EE 45 | | | 3.77 | 12.52 | W. Profile |
| EE 12 | | | 4.28 | 12.01 | W. Edge Pav. |
| 0 | | | 5.2 | 11.1 | |
| VW 9 | | | 5.2 | 11.1 | |
| VW 14 | | | 10.7 | 5.6 | |
| W 40 | | | 13.3 | 3.0 | |

TP

5.52 10.77

TOP 2X2

114+00N

Jan 23, 1951

(32)

Sta. 114+00 N

| Sta | + | H.I | - | Elev | |
|-------|------|-------|------|-------|--------------------|
| TBM | | | | 11.11 | TOP 2X2 115+00N |
| | 4.91 | 16.02 | | | |
| EE 45 | | | 3.76 | 12.26 | W. Profile |
| EE 12 | | | 4.40 | 11.62 | W. Edge Pav. |
| 0 | | | 5.3 | 10.7 | |
| W 9 | | | 4.9 | 11.1 | |
| W 13 | | | 9.8 | 6.2 | |
| W 37 | | | 12.2 | 3.8 | |

TP

5.52 10.50

TOP 2X2

113+00N

CROSS SECTIONS CONT'D

Sta. 113+00 N.

| Sta. | + | H.I. | - | Elev | TOP 2x2 |
|------|------|-------|------|-------|--------------|
| TBM. | | | | 10.77 | 114+00 N. |
| | 4.93 | 15.70 | | | |
| E 45 | | | 3.65 | 12.05 | W. Profile |
| E 12 | | | 4.35 | 11.35 | W. Edge Pav. |
| 0 | | | 5.3 | 10.4 | |
| W 9 | | | 4.9 | 10.8 | |
| W 14 | | | 10.7 | 5.0 | |
| W 32 | | | 12.5 | 3.2 | |

TP.

5.45 10.25 112+00

TOP 2x2

Jan. 23, 1951

(33)

Sta. 112+00 N.

| Sta. | + | H.I. | - | Elev. | TOP 2x2 |
|------|------|-------|------|-------|--------------|
| TBM. | | | | 10.50 | 113+00 N. |
| | 5.02 | 15.52 | | | |
| E 45 | | | 3.73 | 11.79 | W. Profile |
| E 12 | | | 4.34 | 11.18 | W. Edge Pav. |
| 0 | | | 5.3 | 10.2 | |
| W 9 | | | 5.1 | 10.4 | |
| W 14 | | | 10.5 | 5.0 | |
| W 34 | | | 12.2 | 3.3 | |

TP.

5.44 10.08 111+00 N

TOP 2x2

CROSS SECTIONS CONT'D.

Jan. 23, 1951

(34)

Sta. 111+00 N.

Sta. 110+00 N

| Sta | + | H.I. | - | Elev. |
|-----|---|------|---|-------|
| TBM | | | | 10.25 |

TOP 2x2

112+00 N

| Sta. | + | H.I. | - | Elev. |
|------|---|------|---|-------|
| TBM | | | | 10.08 |

TOP 2x2

111+00 N

4.92 15.17

5.07 15.15

E 45 3.60 11.57 W. Profile

E 45

3.74 11.41 W. Profile

E 12 4.20 10.97 W. Edge

E 12

4.25 10.90 W. Edge

0 5.1 10.1

0

5.3 9.8

W 9 4.9 10.3

W 9

5.0 10.2

W 13 9.8 5.4

W 12

9.3 5.9

W 39 11.9 3.3

W 49

11.8 3.4

TP. 5.32 9.85

TOP 2x2

110+00 N

TP.

5.18 9.97

TOP 2x2

109+00 N

CROSS SECTIONS CONT'D.

Jan. 23, 1951

(35)

Sta 109+00 N.

Sta. 108+00 N

| Sta | + | H.I | - | Elev. |
|-----|---|-----|---|-------|
| TBM | | | | 9.85 |

TOP 2x2

110+00N

| Sta | + | H.I | - | Elev. |
|-----|---|-----|---|-------|
| TBM | | | | 9.97 |

TOP 2x2

109+00N

5.37 15.22

5.42 15.39

| | | | | |
|------|--|--|------|-------|
| E 44 | | | 3.91 | 11.31 |
|------|--|--|------|-------|

W. Profile

E 44

| | | | | |
|------|--|--|------|-------|
| E 12 | | | 4.47 | 10.75 |
|------|--|--|------|-------|

W. Edge Pav.

E 11

| | | | | |
|---|--|--|-----|-----|
| 0 | | | 5.3 | 9.9 |
|---|--|--|-----|-----|

0

| | | | | |
|------|--|--|-----|------|
| W 10 | | | 5.2 | 10.0 |
|------|--|--|-----|------|

W 10

| | | | | |
|------|--|--|------|-----|
| W 14 | | | 10.4 | 4.8 |
|------|--|--|------|-----|

W 14

| | | | | |
|------|--|--|------|-----|
| W 30 | | | 11.6 | 3.6 |
|------|--|--|------|-----|

W 33

| | | | | |
|----|--|--|------|-------|
| TP | | | 5.09 | 10.13 |
|----|--|--|------|-------|

TOP 2x2

108+00N

TP

| | | | | |
|--|--|--|------|-------|
| | | | 4.44 | 10.95 |
|--|--|--|------|-------|

TOP 2x2

107+00N

CROSS SECTIONS CONT

STA 107+00 N

STA + H.I. - ELEV

TBM

10.13

2x2 HUB

STA 107+00

5.88 16.01

E 44

4.11

PROFILE

E 10

4.91

EDGE

E 5

5.3

0

5.1

W 10

4.9

W 16

9.7

W 45

12.5

TP

4.92

11.09

2x2 HUB

STA 106

JAN 30, 1951

(36)

STA 106+00 N

STA + H.I. - ELEV

TBM

10.95

2x2 HUB

STA 107+00

5.18 16.13

E 43

3.95

PRO.

E 11

4.19

E 7

4.8

0

5.1

W 3

5.2

W 12

4.7

W 14

8.3

W 67

12.6

TP

4.69

11.44

2x2 HUB

STA 105

JAN 30, 1951

STA 105+00 N

STA 104+00 N

| STA | + | H.I. | - | ELEV |
|-----|---|------|---|-------|
| TBM | | | | 11.09 |

2x2 HUB

STA 106

| STA | + | H.I. | - | ELEV |
|-----|---|------|---|-------|
| TBM | | | | 11.44 |

2x2 HUB

STA 105

5.52 16.61

5.82 17.26

E 45 4.14

E 45 4.52

E 12 4.25

E 13 4.49

0 5.2

0 5.4

W 5 4.9

W 7 5.5

W 6 9.3

W 10 8.0

W 38 12.9

W 21 11.2

W 45 13.6

| TP | + | H.I. | - | ELEV |
|----|---|------|---|------------|
| | | | | 4.75 11.86 |

2x2 HUB

STA 104

TP

5.17 12.09

2x2 HUB

STA 103

STA 103+00 N

STA + H.I. - ELEV.

TBM

11.86

2x2 HUB
STA 104

5.39 17.25

E 48 4.30

E 17 3.85

E 2 5.3

0 5.2

W 7 5.0

W 10 6.4

W 20 10.9

W 60 13.5

TP 4.38 12.87

2x2 HUB
STA 102

JAN 30, 1951

(38)

STA 102+00 N

STA + H.I. - ELEV.

TBM

12.09

2x2 HUB
STA 103

6.06 18.15

E 56 4.93

E 24 4.57

E 12 5.6

0 5.4

W 5 5.3

W 12 10.7

W 78 14.5

TP

5.09 13.06

2x2 HUB
STA 101

JAN 30, 1951

STA 101+00 N

STA 100+00 N

| STA | + | H.I. | - | ELEV |
|-----|---|------|---|-------|
| TBM | | | | 12.87 |

| STA | + | H.I. | - | ELEV |
|-----|---|------|---|-------|
| TBM | | | | 13.06 |

2x2 HUB
STA 101

5.37 18.24

5.21 18.27

E 48 4.81

E 46 4.55

E 17 4.41

E 14 4.20

E 7 5.50

E 11 4.50

E 6 5.2

E 8 4.0

0 5.2

0 5.1

W 4 5.4

W 14 8.3

W 10 8.2

W ³⁷~~20~~ 10.4

W 19 11.3

W 40 12.4

W 70 14.5

W 72 14.5

TP 5.08 13.16

2x2 HUB

STA 100

TP

8.68

9.59

2x2 HUB

STA 99

JAN 30, 1951

(40)

STA 99+00

| STA | + | H.I. | - | ELEV |
|-----|---|------|---|-------|
| TBM | | | | 13.16 |

2.04 15.20

E 48 1.36

E 16 1.14

E 14 1.2

E 6 4.5

0 5.5

W 10 6.5

W 45 8.3

W 99 8.7

W 99 10.6

LOCATION OF CULVERTS

ALONG PACIFIC HI-WAY

MISSION BAY PROJECT 65031

Jan 25, 1951

T. Stamper

(41)

| Sta | H.I. | - | Elev | |
|----------|-----------------------|--------------|-------|---------------------|
| TBM. | | | 10.20 | 140+00N |
| 2.53 | 12.73 | | | |
| | | 4.88 | 7.85 | W. Side F. Line |
| | | | 13.88 | TOP Hd. Wall/W |
| TBM | <u>At Sta. 140+00</u> | | 8.81 | 141+00N |
| | <u>6.61</u> | <u>15.42</u> | | |
| | | 6.91 | 8.51 | E Side F. Line |
| B.M. | | 1.09 | 14.33 | TOP Hd. Wall/E |
| Azim. | DIST. | Rod | ELEV | |
| 63° 35' | 116 | 7.1 | | PROFILES N 140+50.3 |
| 56° 20' | 90 | 7.5 | | " |
| 42° 40' | 68 | 8.0 | | " |
| 24° 55' | 52 | 8.3 | | " |
| 352° 55' | 47 | 8.4 | | " |
| 323° 25' | 61 | 9.0 | | " |
| 322° 00' | 79 | 9.6 | | " |

STATE HI-WAY B.M. TOPE H.D. WALL

MKD. ELV. 5.24

9.01

MLLW EL = 14.25

6.00

INLET EL = 8.25

NOTE: For B/L Controls
See Pg. 3

N 6° 16' 45" W B/L P

PROFILES N 140+50.3

Conc. Hd. wall

HI-WAY STA. 170+72

Conc. Apron

Rock Sides

PLAN
CONC. BOX CULV.

FLOW

PACIFIC HI-WAY

SD. 170+72

PLAN

TOPE H.D. WALL
13.88 W. Side
14.25 E. Side

ELEV.

2-1-51

(43)

H.I. = 15.76

| AZIM | DIST | ROD | ELEV | |
|---------|------|------|------|------------|
| 236°50' | 50 | 8.76 | 7.0 | 7' Contour |
| 205°15' | 35 | | | |
| 193°05' | 32 | | | |
| 189°50' | 29 | | | |
| 221°30' | 34 | | | |
| 260°35' | 48 | | | |
| 271°45' | 70 | | | |
| 270°35' | 93 | | | |
| 280°00' | 105 | | | |
| 243°35' | 147 | 9.76 | 6.0 | 6' Contour |
| 254°55' | 120 | | | |
| 258°50' | 119 | | | |
| 273°45' | 118 | | | |
| 285°45' | 120 | | | |
| 299°35' | 132 | | | |

10.19

5.57

West End
of Apron

2-1-51.

Cont From Page 41. T @ 140+00

H.I. = 15.42

| AZIM | DIST | ROD | ELEV | |
|---------|------|------|------|------------|
| 327°30' | 105 | 10.5 | | PROFILE |
| 334°45' | 130 | 11.2 | | " |
| 335°10' | 69 | 6.42 | 9.00 | 9' CONTOUR |
| 356°45' | 58 | | | |
| 27°25' | 63 | | | |
| 45°05' | 80 | | | |
| 55°30' | 100 | | | |
| 61°10' | 119 | | | |
| 66°00' | 113 | | | |
| 60°55' | 92 | | | |
| 46°25' | 62 | | | |
| 18°45' | 40 | | | |
| 326°05' | 41 | | | |
| 306°25' | 50 | | | |
| 297°30' | 30 | | | |
| 324°00' | 79 | 8.42 | 7.00 | 7' CONTOUR |
| 332°55' | 58 | | | |
| 357°35' | 47 | | | |

(44)

H.I. = 15.42

| Azim | Dist | Rod | Elev | |
|---------|------|------|------|-------------|
| 359°45' | 44 | 8.42 | 7.00 | 7' Contour. |
| 328°40' | 51 | | | |
| 317°55' | 70 | | | |
| 322°15' | 91 | | | |

2-1-51

CROSS SECTIONS OF

CULVERT NEAR STA 140+00 N

STA 62+55 W

STA + HI - ELEV

TBM

10.20 STA 140+00

8.03 18.23

0+00

5.3 12.9

N+0.40

5.9 12.3

N+0.48

10.1 8.1

N+0.57

10.1 8.1

N+0.63

5.1 13.1

N+0.87

5.2 13.0

N+1.02

4.8 13.4

Sta 62+75

TBM

7.48 17.68

10.20 Sta 14+00

N+1.04

5.4 12.3

N+0.81

5.0 12.9

N+0.63

6.2 11.7

N+0.55

9.2 .7

Sta

Sta 62+75

HI

Elev

(45)

N+0.40

17.68

9.1

8.8

N+0.41

6.9

11.0

N+0.25

5.2

12.7

0+00

5.3

12.6

Sta

63+00

T.B.M

5.42

15.62

10.20

Sta 140+00

0+00

5.2

10.4

N+0.29

4.7

10.9

N+0.38

6.0

9.6

N+0.42

6.6

9.0

N+0.43

8.3

7.8

N+0.55

8.3

7.3

N+0.60

6.2

9.4

N+0.71

4.5

11.1

N+0.90

5.0

10.6

LOCATION OF SUBSURFACE
EXPLORATION TEST HOLES BY
SAN DIEGO TESTING LABORATORY

Feb. 9, 1951

(46)
T. Stamper
E. Watson
A. Sherry
R. Shorey

STA + H.I. - ELEV.

B.M. 12.00

3.56 15.56

HOLE #1 6.56 9.0

TP. 6.80 8.76

5.07 13.83

HOLE #2 4.93 8.7

TP. 4.10 9.73

5.54 15.27

HOLE #3 4.38 10.9

HOLE #4 5.30 10.0

TOP CONC. MON NEAR STATE

ARC. SHEET LOCATION
KENDAL TO HORSE HORSE TO CHIMNEY

TOP GR. HOLE #1, 68° 55' 140° 55'

TOP GR. 74° 54' 138° 58'

TA #4
HORSE RT. 113° 00' 12.5'

86° 08' 129° 49'

300'

PROFILE ALONG NORTHERLY
TOP OF SHOULDER PARK
BDY-35'± SLY.

| STA | + | H.I | - | ELEV. | CITY B.M. |
|--------|------|-------|-----|-------|------------|
| B.M. | 5.20 | 17.20 | | 12.00 | NEAR STATE |
| 79+00W | | | 5.0 | 12.2 | |
| 80+00W | | | 5.8 | 11.4 | |
| 81+00W | | | 5.6 | 11.6 | |
| 82+00W | | | 5.4 | 11.8 | |
| 83+00W | | | 5.0 | 12.2 | |
| 84+00W | | | 4.8 | 12.4 | |
| 85+00W | | | 5.1 | 12.1 | |
| 86+00W | | | 5.7 | 11.5 | |
| 87+00W | | | 5.1 | 12.1 | |
| 88+00W | | | 4.0 | 13.2 | |
| 89+00W | | | 4.6 | 12.6 | |
| 90+00W | | | 5.4 | 11.8 | |
| 91+00W | | | 5.4 | 11.8 | |
| 92+00W | | | 5.5 | 11.7 | |
| 93+00W | | | 5.8 | 11.4 | |
| 94+00W | | | 6.0 | 11.2 | |

4-26-51

(47)

T. Stampe
A. Sherry

RD LOCATION DEANZA POINT

SLY RD \pm = STA. 91+00' AV. WIDTH = 22'

E & W. RD = 35' AV. WIDTH. AV. DIST TO

SOUTH EDGE = 65'

LOCATION OF WLY EDGE OF

TOPSOIL FROM N. PARK. BDY

$L = 56^{\circ}20' Lt$ @ PT. 30' W. OF E.

HI-WAY R.O.W. MON

4-30-51
LOCATION OF TOPSOIL

E. Watson
A. Sherry

AREA DE ANZA POINT π at "State"

| Sta. | Dist | Azim | Rod | Elev. | |
|-------|-------|----------------|-----------------|-------|-------------------------|
| B. M. | +5.25 | H. I. 17.25 | | 12.00 | City B.M. Near State |
| 1. | | 270°31'15" | Along Park Bdy. | | |
| 2. | 54' | 149°50' | 5.0 | 12.3 | |
| 3. | 178' | 175°10' | 5.5 | 11.8 | |
| 4. | 142' | 179°38' | 5.0 | 12.3 | |
| 5. | 115' | 199°43' | 5.2 | 12.1 | |
| 6. | 128' | 203°45' | 5.4 | 11.9 | |
| 7. | 112' | 239°20' | 6.0 | 11.3 | |
| 8. | 48' | 238°51' | 5.0 | 12.3 | |
| 9. | 128' | 257°45' | 6.0 | 11.3 | |
| 10. | 135' | 243°49' | 6.4 | 10.9 | |
| 11. | 212' | 253°34' | 6.7 | 10.6 | |
| 12. | 210' | 262°08' | 6.0 | 11.3 | |
| 13. | 278' | 264°08' | 5.8 | 11.5 | |
| 14. | 282' | 257°29' | 6.6 | 10.7 | |
| 15. | 348' | 259°45' | 5.8 | 11.5 | |
| 16. | 347' | 265°04' | 5.2 | 12.1 | |

H1 = 17.25
4-30-51

(48)

| Sta. | Dist. | Azim | Rod | Elev. | |
|------|-------|---------|-----|-------|--|
| 17. | 430' | 266°01' | 4.6 | 12.7 | |
| 18. | 427' | 261°08' | 5.3 | 12.0 | |
| 19. | 490' | 262°02' | 4.8 | 12.5 | |
| 20. | 491' | 266°30' | 4.9 | 12.4 | |
| 21. | 530' | 266°58' | 4.7 | 12.6 | |
| 22. | 535' | 261°33' | 4.7 | 12.6 | |
| 23. | 535' | 259°29' | 4.6 | 12.7 | |
| 24. | 596' | 259°51' | 4.6 | 12.7 | |
| 25. | 605' | 262°41' | 4.8 | 12.5 | |
| 26. | 640' | 264°46' | 5.4 | 11.9 | |
| 27. | 641' | 267°36' | 4.8 | 12.5 | |
| 28. | 705' | 267°52' | 5.0 | 12.3 | |
| 29. | 715' | 265°01' | 5.6 | 11.7 | |
| 30. | 765' | 264°57' | 6.0 | 11.3 | |
| 31. | 765' | 268°04' | 5.6 | 11.7 | |
| 32. | 820' | 268°16' | 5.9 | 11.4 | |
| 33. | 830' | 266°15' | 6.1 | 11.2 | |
| 34. | 880' | 266°28' | 6.1 | 11.2 | |

H.I. = 17.25'

| Sta | Dist | Azim | Rod | Elev. |
|-----|-------|---------|-----|-------|
| 35 | 885' | 268°34' | 5.3 | 12.0 |
| 36 | 945' | 268°40' | 4.8 | 12.5 |
| 37 | 945' | 266°42' | 5.2 | 12.1 |
| 38 | 1005' | 266°57' | 4.6 | 12.7 |
| 39 | 1010' | 265°46' | 4.4 | 12.9 |
| 40 | 366' | 271°40' | 5.9 | 11.4 |
| 41 | 256' | 271°18' | 5.1 | 12.2 |
| 42 | 200' | 268°20' | 6.0 | 11.3 |
| 43 | 208' | 278°27' | 5.4 | 11.9 |
| 44 | 244' | 285°18' | 5.1 | 12.2 |
| 45 | 212' | 181°53' | 5.4 | 11.9 |
| 46 | 290' | 190°37' | 5.7 | 11.6 |
| 47 | 386' | 196°40' | 6.8 | 10.5 |
| 48 | 460' | 199°23' | 7.2 | 10.1 |
| 49 | 546' | 202°01' | 6.8 | 10.5 |
| 50 | 630' | 204°24' | 5.8 | 11.5 |
| 51 | 680' | 210°55' | 6.2 | 11.1 |
| 52 | 735' | 215°37' | 6.4 | 10.9 |

H.I. = 17.25'

(49)

| Sta | Dist | Azim | Rod | Elev. |
|-----|-------|---------|-----|-------|
| 53 | 805' | 222°06' | 6.3 | 11.0 |
| 54 | 868' | 225°55' | 6.3 | 11.0 |
| 55 | 935' | 228°51' | 6.6 | 10.7 |
| 56 | 1045' | 232°21' | 7.4 | 9.9 |

Sta 91+00
on 35' Offset
from Baseline

268°55'

Sta + H.I. - Elev.

B.M.

12.00

City B.M. at
"State"

4.44 16.44

T.P.

3.62 12.82

4.38 17.20

T.B.M.

4.73 12.47

Hub near
Sta 91+00

4-30-51

Location of Top Soil

(50)

De Anza Point Cont'd.

HI=17.09

| Sta | Dist. | Azimuth | Rod | Elev | Sta | Dist. | Azimuth | Rod | Elev |
|--|-------|---------|-----|------|-----|-------|---------|-----|------|
| T at Sta 91+00 35' offset B/L BM +4.62 HI=17.09 12.47 "State" 88°55' Hub near Sta 91+00 | | | | | 16 | 209' | 180°08' | 6.3 | 10.8 |
| 17 | 210' | 183°47' | 6.8 | 10.3 | 18 | 352' | 182°27' | 7.1 | 10.0 |
| 19 | 351' | 180°21' | 6.6 | 10.5 | 20 | 353' | 178°28' | 7.1 | 10.0 |
| 2 | 132' | 101°54' | 4.1 | 13.0 | 21 | 530' | 179°15' | 7.8 | 9.3 |
| 3 | 128' | 89°56' | 4.4 | 12.7 | 22 | 532' | 181°40' | 7.5 | 9.6 |
| 4 | 41' | 92°40' | 4.8 | 12.3 | 23 | 650' | 180°01' | 6.0 | 11.1 |
| 5 | 52' | 133°46' | 5.1 | 12.0 | 24 | 655' | 177°35' | 6.0 | 11.1 |
| 6 | 48' | 151°06' | 5.2 | 11.9 | 25 | 682' | 176°03' | 6.6 | 10.5 |
| 7 | 58' | 166°35' | 5.7 | 11.4 | 26 | 682' | 169°15' | 7.0 | 10.1 |
| 4 Road 8 | 62' | 180°15' | 5.4 | 11.7 | 27 | 685' | 160°38' | 7.8 | 9.3 |
| 9 | 62' | 191°37' | 6.1 | 11.0 | 28 | 715' | 159°14' | 7.7 | 9.4 |
| 10 | 48' | 211°24' | 6.1 | 11.0 | 29 | 705' | 154°16' | 7.8 | 9.3 |
| 11 | 65' | 244°59' | 5.9 | 11.2 | 30 | 670' | 153°59' | 6.9 | 10.2 |
| 12 | 55' | 268°45' | 5.8 | 11.3 | 31 | 702' | 149°37' | 6.7 | 10.4 |
| 13 | 168' | 268°49' | 6.0 | 11.1 | 32 | 745' | 151°17' | 7.6 | 9.5 |
| 14 | 168' | 260°78' | 6.0 | 11.1 | 33 | 735' | 146°54' | 7.1 | 10.0 |
| 15 | 211' | 177°04' | 6.7 | 10.4 | | | | | |

5-12-52
FINAL SOUNDINGS PROJ

No 65036 MISSION BAY

END SECTION W/12950

0+00 = N 95+00 SOUND NORTH

DIST SOUND DIST SOUND

0+00 12.8 10.0

4.0 -1.2 (2.8) 12.7 9.9

3:29 5.0 2.2 12.7 —

4.4 1.6 12.8 10.0

(2.8) 6.5 3.7 2+00 12.8 —

50 11.3 8.5 1

13.4 10.6 1

13.5 10.7 1

12.8 10.0 1

12.5 9.7 50 1

1+00 13.1 10.3

12.6 9.8

12.5 9.7

12.5 —

12.7 9.9

50 12.7 —

5-13-52
STAN 96+00

(51)

0+00 = W/13300 SOUND EAST

DIST SOUND DIST SOUND PX

2+50 $\begin{matrix} 0.2 \\ 1.0 \\ 2.3 \end{matrix}$ $\begin{matrix} +1.7 \\ +0.3 \\ -0.4 \end{matrix}$ 12.3 10.4

11.56 2.7 0.8 12.1 10.2

2.7 — 50 12.1 —

(19) 7.0 5.1 12.1 —

9.7 7.8 12.1 —

3+00 11.5 9.6 (19) 12.1 —

12.2 10.3 12.4 10.5

12.1 10.2 5+00 13.0 11.1

11.8 9.9 13.5 11.6

12.3 10.4 13.3 11.4

50 12.7 10.8 12.0 10.1

12.5 10.6 10.7 8.8

13.0 11.1 50 10.8 8.9

13.0 — 11.0 9.1

11.58 12.6 10.7 10.8 8.9

4+00 12.6 — 12:00 10.8 —

12.5 10.6 11.1 9.2

12.4 10.5 6+00 11.1 —

11.9 9.8

5-13-52
STAN 97+00

PX

0+00 = W13300 SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|-------|--------|------|-------|-------|------|
| 1+30 | N.G.V. | | | | |
| 2+50 | 0.6 | +1.6 | 12.0 | 9.8 | |
| 1209 | 2.4 | -0.2 | 12.0 | — | |
| | 5.3 | 3.1 | 50 | 12.0 | — |
| | 1.2 | 5.0 | 12.0 | — | |
| | 12.0 | 9.8 | 12.0 | — | |
| 3+00 | 11.7 | 9.5 | (22) | 12.2 | 10.0 |
| | 11.0 | 8.8 | 12.3 | 10.1 | |
| | 10.4 | 8.2 | 5+00 | 12.3 | — |
| (2.2) | 11.2 | 9.0 | 12.3 | — | |
| | 11.8 | 9.6 | 11.8 | 9.6 | |
| 50 | 12.0 | 9.8 | 12.0 | 9.8 | |
| | 12.1 | 9.9 | 12:13 | 12.4 | 10.2 |
| 12:41 | 12.2 | 10.0 | 50 | 12.4 | — |
| | 12.4 | 10.2 | 12.7 | 10.5 | |
| | 12.3 | 10.1 | | | |
| 4+00 | 12.3 | 10.1 | | | |
| | 12.8 | 10.6 | | | |
| | 12.4 | 10.2 | | | |

5-13-52
STAN 98+00

PX (52)

0+00 = W13300 SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 2+50 | 1.0 | +1.5 | 12.3 | 9.8 | |
| | 1.1 | +1.4 | 12.1 | 9.6 | |
| | 2.3 | +0.2 | 50 | 12.4 | 9.9 |
| 12:26 | 8.5 | -6.0 | 12.4 | — | |
| | 11.4 | 8.9 | 12.2 | 9.7 | |
| 3+00 | 11.2 | 8.7 | (25) | 12.2 | — |
| | 11.3 | 8.8 | 12.0 | 9.5 | |
| | 11.8 | 9.3 | 5+00 | 11.7 | 9.2 |
| (25) | 12.0 | 9.5 | 12:29 | 11.7 | — |
| | 12.0 | — | 12.2 | 9.7 | |
| 50 | 12.1 | 9.6 | 12.5 | 10.0 | |
| | 12.3 | 9.8 | 12.8 | 10.3 | |
| | 12.3 | — | 50 | 13.0 | 10.5 |
| | 12.4 | 9.9 | 13.1 | 10.6 | |
| | 12.4 | — | | | |
| 4+00 | 12.4 | — | | | |
| 12:28 | 12.5 | 10.0 | | | |
| | 12.4 | 9.9 | | | |

5-13-52
STAN 99+00

PX

| 0+00 = W13300 SOUND EAST | | | | |
|--------------------------|-------|------|-------|-------|
| Dist | Sound | | Dist | Sound |
| 2+50 | 5.0 | -2.4 | 13.1 | 10.5 |
| 12.40 | 5.1 | 2.5 | 12.42 | 13.1 |
| | 5.2 | 2.6 | 50 | 13.3 |
| | 10.2 | 7.6 | | 12.8 |
| | 12.8 | 10.2 | | 12.6 |
| 3+00 | 12.8 | — | (2.6) | 13.1 |
| | 13.0 | 10.4 | | 13.3 |
| (2.6) | 13.1 | 10.5 | 5+00 | 13.7 |
| | 13.1 | — | | 13.7 |
| | 13.2 | 10.6 | | 14.0 |
| 50 | 13.2 | — | | 14.0 |
| | 13.2 | — | 12.43 | 14.3 |
| | 13.2 | — | 50 | 14.1 |
| | 13.2 | — | | |
| | 13.3 | 10.7 | | |
| 4+00 | 13.5 | 10.9 | | |
| | 13.2 | 10.6 | | |
| | 13.2 | — | | |

5-13-52
STAN 100+00

PX (53)

| 0+00 = W13300 SOUND EAST | | | | |
|--------------------------|-------|------|-------|-------|
| Dist | Sound | | Dist | Sound |
| 2+50 | 5.0 | -2.1 | 12.6 | 9.7 |
| 1:05 | 5.0 | — | 12.6 | — |
| | 4.5 | 1.6 | 50 | 12.8 |
| | 11.8 | 8.9 | | 13.2 |
| | 12.0 | 9.1 | (2.9) | 13.4 |
| 3+00 | 12.0 | — | 1:08 | 13.5 |
| | 11.4 | 8.5 | | 13.7 |
| (2.9) | 13.0 | 10.1 | 5+00 | 13.7 |
| | 13.2 | 10.3 | | 13.7 |
| | 13.0 | 10.1 | | 13.5 |
| 50 | 12.8 | 9.9 | | 13.6 |
| | 12.8 | — | | 13.6 |
| | 12.7 | 9.8 | 50 | 13.5 |
| | 13.1 | 10.2 | | |
| 1:07 | 13.2 | 10.3 | | |
| 4+00 | 13.2 | — | | |
| | 13.1 | 10.2 | | |
| | 13.1 | — | | |

5-12-52
END SECTION

STA W/12,980

0+00 = N95+00 SOUND NORTH

Dist Sound Dist Sound

0+00 8 11.0 8.3

2.3 +0.4 11.4 8.7

3:12 2.5 +0.2 11.1 8.4

2.4 +0.3 2+00 12.0 9.3

4.2 -1.5 3:15 11.8 9.1

50 8.0 5.3 11.1 8.4

11.0 8.3 11.1 8.4

(2.7) 12.2 9.5 (2.7) 11.4 8.7

13.8 11.1 50 11.7 9.0

13.6 10.9 12.0 9.3

1400 13.0 10.3 12.1 9.4

13.4 10.7 12.1 —

13.0 10.3 12.2 9.5

13.5 10.8 3+00 12.4 9.7

11.8 9.1 12.4 —

50 12.6 9.9 13.0 10.3

12.4 9.7 13.0 —

STA 12,980 CONTD NORTH

(54)

Dist Sound Dist Sound PK

13.1 10.4 3:20 12.4 —

50 13.3 10.6 12.1 9.4

3:17 13.5 10.8 50 11.6 8.9

13.1 10.4 11.1 8.4

13.3 10.6 11.0 8.3

13.3 — 10.4 7.7

4+00 13.3 — 10.0 7.3

3:18 13.1 10.4 6+00 9.2 6.5 End

13.4 10.7 10.0 7.3

(2.7) 13.5 10.8 (2.7) 10.8 8.1

13.8 11.1 10.5 7.8

50 13.8 — 10.3 7.6

13.8 — 50 10.3 —

13.7 11.0 3:23 10.3 —

13.7 — 11.0 8.3

13.5 10.8 10.6 7.9

5+00 13.5 — 10.8 8.1

12.8 10.1 7+00 11.5 8.8

12.4 9.7

5-12-52

END SECTION

STA W13000

0+00 = N95+00 SOUND NORTH

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|-------|----------|
| 0+10 | 2.6 | +0.1 | 12.0 | 9.3 |
| | 2.4 | +0.3 | 11.3 | 8.6 |
| 3:35 | 2.4 | +0.3 | 2+00 | 12.1 9.4 |
| | 2.4 | +0.3 | 11.8 | 9.1 |
| 50 | 3.5 | -0.8 | (2.7) | 11.0 8.3 |
| | 7.0 | 4.3 | 3:39 | 11.4 8.7 |
| (2.7) | 9.5 | 6.8 | | 11.5 8.8 |
| | 11.2 | 8.5 | 50 | 11.5 8.8 |
| | 12.0 | 9.3 | | 11.3 8.6 |
| 1+00 | 13.0 | 10.3 | | 10.8 8.1 |
| | 13.7 | 11.0 | | 11.4 8.7 |
| | 13.3 | 10.8 | | 12.0 9.3 |
| | 13.5 | 10.8 | 3+00 | 12.0 9.3 |
| | 13.1 | 10.4 | | 12.0 9.3 |
| 50 | 12.1 | 9.4 | | 12.0 9.3 |
| | 11.7 | 9.0 | | 12.1 9.4 |
| 3:37 | 12.2 | 9.5 | | 12.1 9.4 |

5-12-52

END SEC. CONTD

(55)

| DIST | SOUND | | DIST | SOUND | PX |
|-------|-------|------|-------|-------|------|
| 50 | 12.4 | 9.7 | | 12.1 | 9.4 |
| 3:40 | 12.5 | 9.8 | 50 | 11.7 | 9.0 |
| | 13.1 | 10.4 | | 11.2 | 8.5 |
| | 13.0 | 10.3 | (2.7) | 11.0 | 8.3 |
| | 13.0 | 10.3 | | 10.2 | 7.5 |
| 4+00 | 13.2 | 10.5 | | 7.0 | 4.3 |
| | 13.2 | — | 6+00 | 1.4 | +0.7 |
| (2.7) | 13.3 | 10.6 | | | |
| | 13.1 | 10.4 | | | |
| | 13.1 | — | | | |
| 50 | 13.3 | 10.6 | | | |
| | 14.0 | 11.3 | | | |
| | 14.0 | — | | | |
| | 14.0 | — | | | |
| | 13.8 | 11.1 | | | |
| 5+00 | 13.4 | 10.7 | | | |
| | 13.4 | — | | | |
| | 13.5 | 10.8 | | | |
| | 13.0 | 10.3 | | | |

5-13-52

STA N 101+00

P.X.

(56)

0+00 = W 13300 SOUND EAST

| Dist Sound | | | Dist. Sound | | |
|------------|-------|------|-------------|------|------|
| 2+50 | | | 13.0 | 9.9 | |
| | | | 13.3 | 10.2 | |
| | N.G.V | | 50 | 13.2 | 10.1 |
| 1:31 | 3.0 | +0.1 | | 13.2 | — |
| | 5.2 | -2.1 | | 13.4 | 10.3 |
| 3+00 | 7.5 | 4.4 | (3.1) | 13.4 | — |
| | 10.0 | 6.9 | | 13.4 | — |
| (3.1) | 10.0 | — | 5+00 | 13.0 | 9.9 |
| | 10.7 | 7.6 | | 1 | |
| 1:33 | 11.2 | 8.1 | | 1 | |
| 50 | 11.2 | — | | 1 | |
| | 11.2 | — | | 1 | |
| | 11.7 | 8.6 | 50 | 1 | |
| | 12.0 | 8.9 | | | |
| | 12.0 | — | | | |
| 4+00 | 12.5 | 9.4 | | | |
| | 13.0 | 9.9 | | | |
| | 13.0 | — | | | |

LOCATION & PROFILE

PROPOSED PRESSURE SEWER

DEANZA POINT & VICINITY.

Notes

- 1- Datum is U.S.C. & G.S. Mean Lower Low Water.
- 2- Origin of Coordinates is U.S.C. & G.S. Station "OLD TOWN".
- 3- Outs taken at 90° to ℄ except as noted

| Sta | Object | Angle |
|---------------------|--------|-------------|
| | Horse | ① 96° 57' |
| N 16,803 W 2,045 | Rt ∇ | ② 193° 53' |
| MH #40 | AV. | 96° 56' 30" |

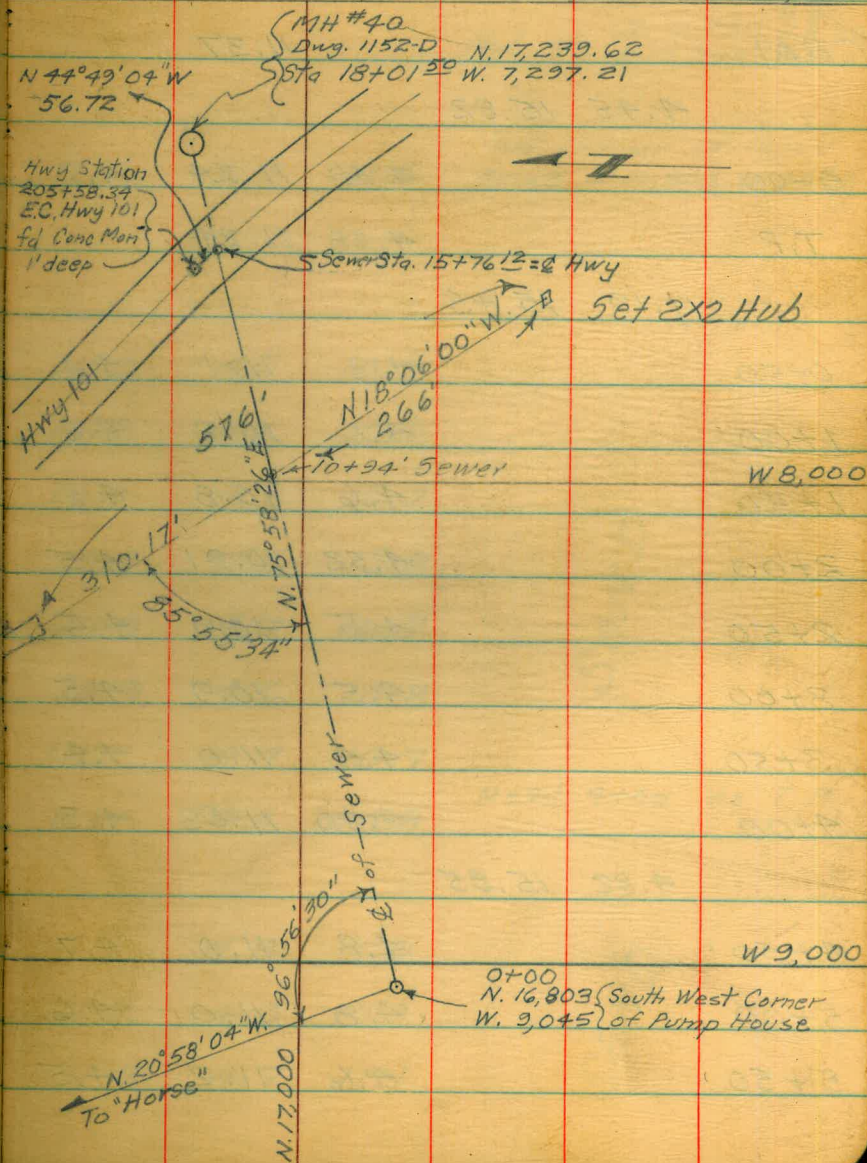
Horse
N 19,355.81
W 10,023.28

Existing
60" RCP

| | | |
|--------------|------|-------------|
| MH 40 | ① | 120° 48' |
| ℄ Hwy 101 | Lt ∇ | ② 241° 35' |
| E.C. Hwy 101 | AV | 120 47' 30" |

8 July 52
Watson
Sisson
Sherry

(57)



8 July 52

(58)

PROFILE

DeAnza Point Pressure Sewer

| $\frac{L}{Sta}$ | + | H.I. | - | $\frac{L}{Elev.}$ | - | Left 15' | - | Right 15' | Remarks |
|-----------------|------|-------|------|-------------------|-----|----------|-----|-----------|--|
| | | | | | | Elev. | | Elev. | |
| T.B.M. | | | | 11.37 | | | | | Hub on N. 16,700 M.B. F.B. 78 W. 2,200 Page 3 |
| | 4.45 | 15.82 | | | | | | | |
| 0+00 | | | 4.58 | 11.24 | 4.7 | 11.1 | 5.0 | 10.8 | S.W. Corner of Pump House N 16,803 W. 2,445 |
| T.P. | | | 4.58 | 11.24 | | | | | |
| | 4.19 | 15.43 | | | | | | | |
| 0+50 | | | 4.3 | 11.1 | 4.4 | 11.0 | 4.5 | 10.9 | |
| 1+00 | | | 4.6 | 10.8 | 4.6 | 10.8 | 4.8 | 10.6 | |
| 1+50 | | | 4.6 | 10.8 | 4.5 | 10.9 | 4.7 | 10.7 | |
| 2+00 | | | 4.52 | 10.91 | 4.5 | 10.9 | 4.6 | 10.8 | |
| 2+50 | | | 4.5 | 10.9 | 4.5 | 10.9 | 4.7 | 10.7 | |
| 3+00 | | | 4.5 | 10.9 | 4.5 | 10.9 | 4.6 | 10.8 | |
| 3+50 | | | 4.4 | 11.0 | 4.4 | 11.0 | 4.7 | 10.7 | |
| 4+00 | | | 4.40 | 11.03 | 4.3 | 11.1 | 4.6 | 10.8 | used 4+00 as T.P. |
| | 4.82 | 15.85 | | | | | | | |
| 4+50 | | | 4.8 | 11.0 | 4.7 | 11.1 | 4.8 | 11.0 | |
| 5+00 | | | 4.8 | 11.0 | 4.6 | 11.2 | 4.9 | 10.9 | |
| 5+50 | | | 4.6 | 11.2 | 4.5 | 11.3 | 4.7 | 11.1 | |

SAND

SAND

Profile of DeAnza Pressure Sewer Cont'd.

(59)

| Sta | + | H.I. | - | Elev. | - | Left 15' Elev. | - | Right 15' Elev. | Remarks |
|-------|---|-------|-------|-------|-----|-------------------|-----|--------------------|---------------------------------------|
| | | 15.85 | | | | | | | |
| 6+00 | | | 4.26 | 11.59 | 4.3 | 11.5 | 4.5 | 11.3 | |
| 6+50 | | | 4.4 | 11.4 | 4.3 | 11.5 | 4.3 | 11.5 | |
| 7+00 | | | 4.4 | 11.4 | 4.5 | 11.3 | 4.5 | 11.3 | |
| 7+50 | | | 4.5 | 11.3 | 4.4 | 11.4 | 4.5 | 11.3 | |
| 8+00 | | | 4.33 | 11.52 | 4.3 | 11.5 | 4.4 | 11.4 | Used 8+00 as T.P. |
| | | 5.43 | 16.95 | | | | | | |
| 8+50 | | | 5.0 | 11.9 | 5.0 | 11.9 | 5.1 | 11.8 | |
| 9+00 | | | 5.1 | 11.8 | 5.1 | 11.8 | 5.2 | 11.7 | |
| 9+50 | | | 5.0 | 11.9 | 5.0 | 11.9 | 4.9 | 12.0 | |
| 10+00 | | | 4.81 | 12.14 | 4.7 | 12.2 | 4.8 | 12.1 | |
| 10+28 | | | 4.4 | 12.5 | 4.8 | 12.1 | 4.3 | 12.6 | beg. of Area Covered with Top Soil |
| 10+50 | | | 4.4 | 12.5 | 4.4 | 12.5 | 4.7 | 12.2 | |
| 11+00 | | | 4.5 | 12.4 | 4.5 | 12.4 | 4.8 | 12.1 | |
| 11+50 | | | 5.2 | 11.7 | 4.9 | 12.0 | 5.6 | 11.3 | |
| 12+00 | | | 5.85 | 11.10 | 5.7 | 11.2 | 5.9 | 11.0 | Used 12+00 as T.P. |
| | | 5.56 | 16.66 | | | | | | |
| 12+50 | | | 5.2 | 11.5 | 5.1 | 11.6 | 5.2 | 11.5 | |

SAND

SAND

Profile of DeAnza Pressure Sewer Contd.


(60)

| Sta. | + | H.I. | - | Elev | - | Left 15' Elev. | - | Right 15' Elev. | Remarks |
|---------------------|------|-------|------|-------|------|-------------------|------|--------------------|-----------------------------|
| | | 16.66 | | | | | | | |
| 13+00 | | | 4.8 | 11.9 | 4.5 | 12.3 | 4.5 | 12.3 | |
| 13+50 | | | 4.6 | 12.1 | 4.7 | 12.0 | 4.9 | 11.8 | |
| 14+00 | | | 4.80 | 11.86 | 4.7 | 12.0 | 4.9 | 11.8 | |
| 14+50 | | | 4.7 | 12.0 | 4.4 | 12.3 | 5.0 | 11.7 | |
| 15+00 | | | 4.6 | 12.1 | 4.5 | 12.2 | 4.7 | 12.0 | |
| 15+25 | | | 4.5 | 12.2 | 4.4 | 12.3 | 4.4 | 12.3 | Outs @ 90° |
| 15+35 | | | 3.22 | 13.44 | 3.17 | 13.49 | 3.28 | 13.38 | W. Edge of Pavement |
| | | | 2.65 | 14.01 | 2.62 | 14.04 | 2.69 | 13.97 | Gutter Line Medium Strip |
| | | | 2.40 | 14.26 | 2.40 | 14.26 | 2.47 | 14.19 | Top of Curb Medium Strip |
| 15+76 ¹³ | | | 2.35 | 14.31 | 2.28 | 14.38 | 2.42 | 14.24 | E. Hwy 101 |
| | | | 2.43 | 14.23 | 2.36 | 14.30 | 2.45 | 14.21 | Top of Curb Medium Strip |
| | | | 2.62 | 14.04 | 2.55 | 14.11 | 2.65 | 14.01 | Gutter Line Medium Strip |
| T.P. | | | 2.35 | 14.31 | | | | | |
| | 5.33 | 19.64 | | | | | | | |
| 16+17 ⁵⁹ | | | 5.56 | 14.08 | 5.56 | 14.08 | 5.62 | 14.02 | E. Edge of Pavement |
| 16+37 | | | 5.9 | 13.7 | 5.8 | 13.8 | 6.0 | 13.6 | |
| 16+75 ³⁰ | | | 4.7 | 14.9 | 4.5 | 15.1 | 4.5 | 15.1 | |

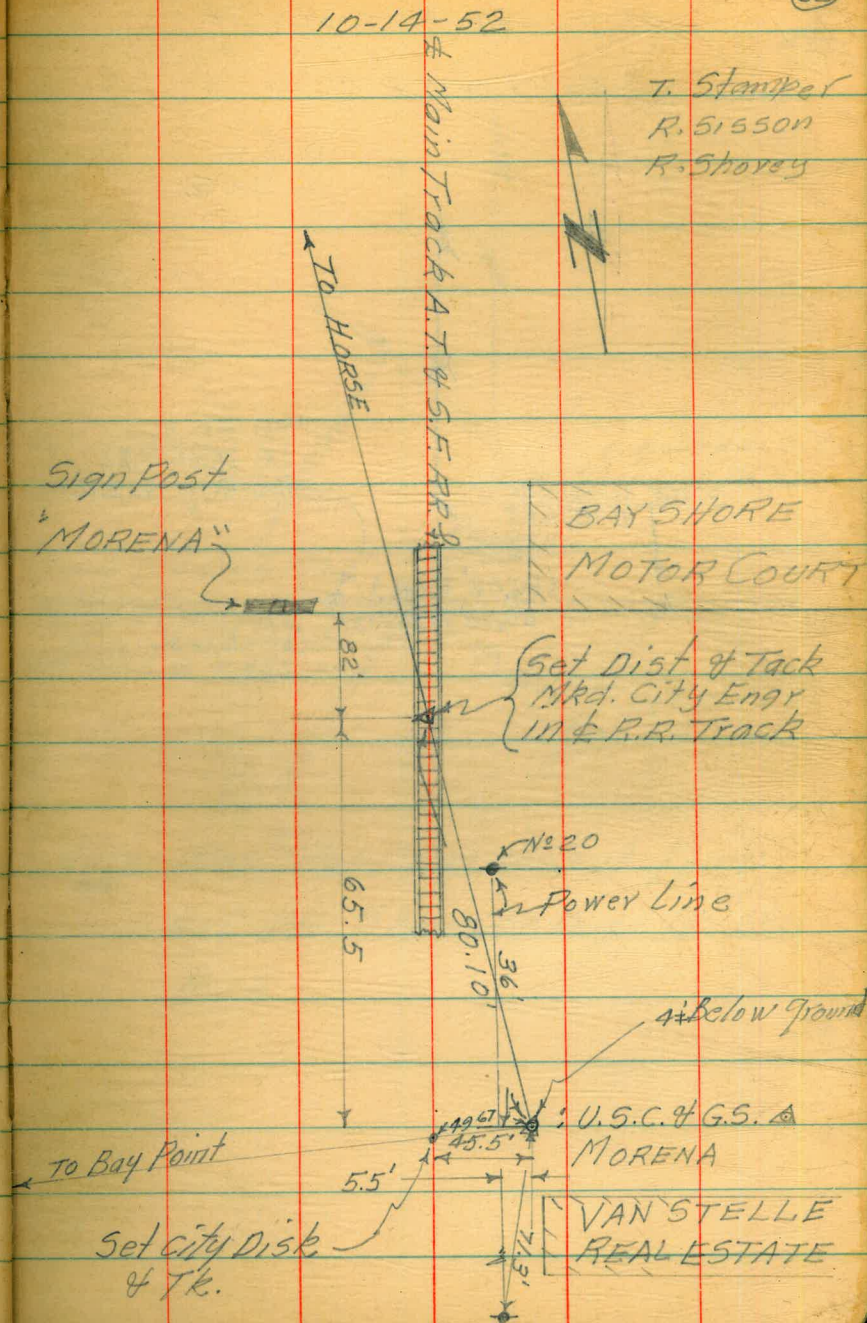
15' Out Shots taken on Line Bearing N. 44° 49' W.

Profile DeAnza Point Pressure Sewer Contd

(61)

| Sta. | + | H.I. | - | Elev | - | Left 15' Elev. | - | Right 15' Elev. | Remarks |
|---------------------|------|--------------------|-------|-------|-----|-------------------|-----|--------------------|--|
| | | 19.64 | | | | | | | |
| 16+50 ⁸⁰ | | | 7.8 | 11.8 | 7.4 | 12.2 | 7.7 | 11.9 | outs taken @ 90° Line Bearing N. 44° 49' W.  |
| 16+55 | | | 7.4 | 12.2 | 7.1 | 12.5 | 7.2 | 11.7 | |
| 16+60 | | | 5.0 | 14.6 | 5.1 | 14.5 | 5.1 | 14.5 | |
| 17+00 | | | 4.8 | 14.8 | 4.6 | 15.0 | 4.9 | 14.7 | outs @ 90° |
| T.P. | | | 4.66 | 14.98 | | | | | Top of Hub Sta 17+00 |
| | 8.38 | 23.36 ⁴ | | | | | | | |
| 17+50 | | | 7.2 | 16.2 | 6.5 | 16.9 | 7.7 | 15.7 | |
| 17+75 | | | 4.7 | 18.7 | 4.1 | 19.3 | 5.1 | 18.3 | |
| 17+99 ⁵⁰ | | | 2.5 | 20.9 | | | | | |
| 18+01 ⁵⁰ | | | 2.75 | 20.61 | | | | | Top of M.H. Cover |
| 18+01 ⁵⁰ | | | 11.56 | 11.80 | | | | | Flow Line |
| T.P. | | | 9.05 | 14.31 | | | | | |
| | 2.86 | 17.17 | | | | | | | |
| B.M. | | | 5.16 | 12.01 | | | | | Comp Mon "State" Elev. 12.00 |

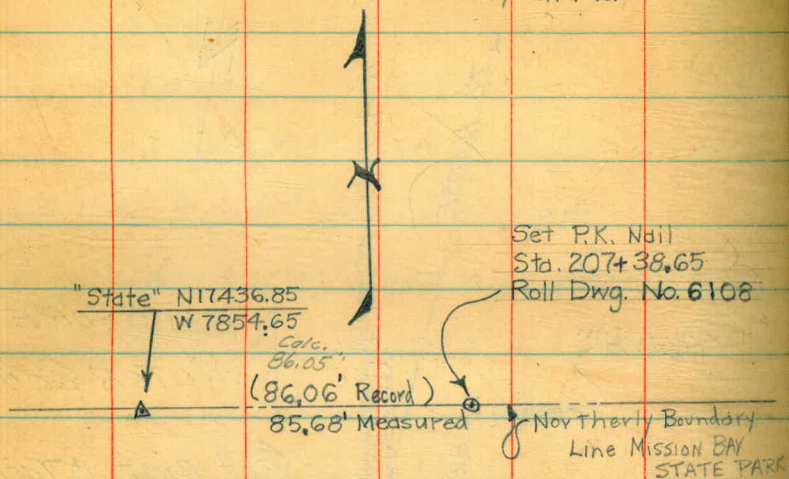
REFERENCE POINTS TO
U.S.C. & G.S. A MORENA
NOTE: This Monument
is Approx. 3' below
ground Surface & is
a ref. Pt. Set below
original Monument
which was destroyed in
1950 by Trunk Line Sewer
Installation by City of
San Diego



MONUMENT "STATE" RESET

& REFERENCE TIES

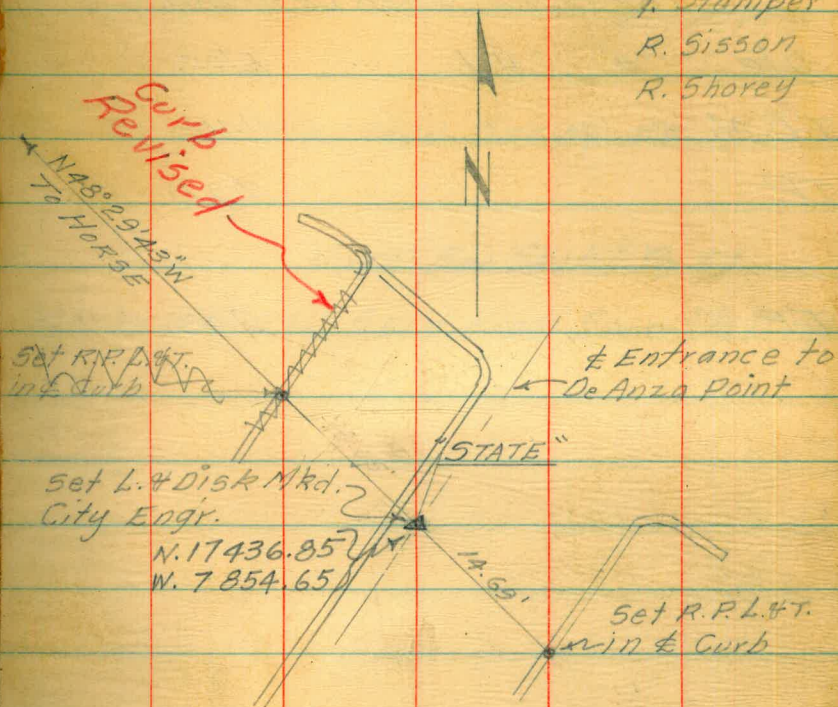
D. Smith
by J.M. Tex



10-17-52

(63)

T. Stamper
R. Sisson
R. Shorey



NOTE: Mon. "State" was Re-set from
Ref. Pts. Shown on Page 12. this
Book.

LEVELS
TO 8" PROPOSED

PRESSURE SEWER DE ANZAFT.

| Sta | + H.I. | - Elev. |
|-----|--------|---------|
|-----|--------|---------|

| | | |
|--------|--|-------|
| T.B.M. | | 11.10 |
|--------|--|-------|

| | | |
|------|--|------|
| T.P. | | 7.10 |
|------|--|------|

PROPOSED 8" DE ANZAFT.

| | | |
|------|--|------|
| T.P. | | 5.03 |
|------|--|------|

6.100

7.100

11-13-52

(69)

T. Stamper

R. Sisson

A. Sherry

R. Shorey

Top 2x2 Hub Sta. 12+00 See Pg. 59

NOTE: See Sketch Pg. 57

Top 2x2 @ 266' SELY From Sewer Sta 10+94

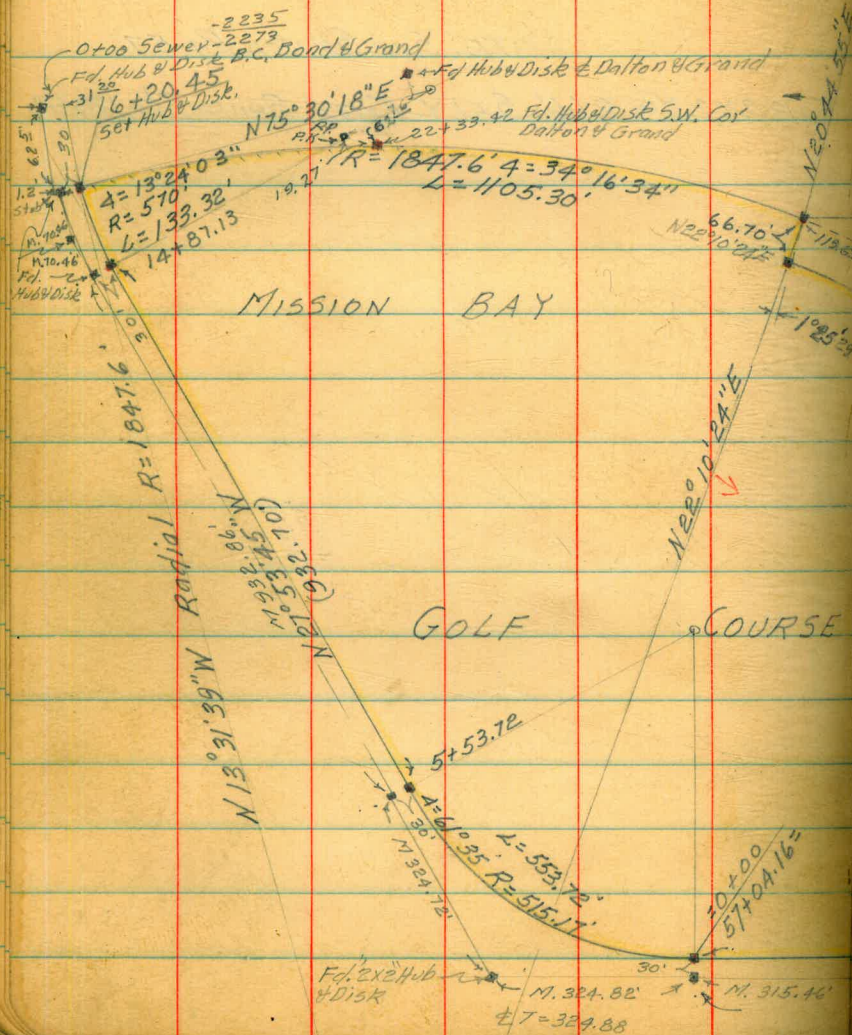
SURVEY OF MISSION BAY GOLF COURSE

LEASE BDY. W.O. 64010

NOTE: See Pg. 66 for Curve Data

Ref. Sewer/Fd. 2273 7-1-54
Grade 2235
Dwg 2560-D

Stamper
Allen
Gibson
Huffman



■ = Set 2x2 Redwood Hub & Disk

Set Random Line Stubs Approx.

200' C-C

Fd. 2x2 Hub & Disk Cor. Hi-Way 101 & Grand Ave

Fd. Hub & Disk 12+97.52 2273 & Grand 2235

NOTE: Sta's are not corrected on sketch
to check new alignment
Revised 6-30-54

NOTE: See Ties To Mon.
"State" Pg. 63

Revised 6-30-54
R=2124.91
L=497.89
4=26° 37' 51"

LEASE

(1308.09) N 89° 28' 45" W

N 4° 34' 19" W Mission Bay State Park to 43+96.07

M. 1304.80
Fd. PK. Nail to N. & S. Road

"STATE" N 17436.85
W. 7854.65

BDY. SURVEY OF MISSION BAY

7-1-54

(66)

GOLF COURSE LEASE W.O. 64010

CURVE DATA

Sta. Def. 4 Chord

Sta. Def. 4 Chord

Sta. Def. 4 Chord

18+00 2° 47' 02" 99.99'

17+00 1° 14' 00" 79.54'

4=34° 16' 34" R=1847.6'

L=1105.30" d=0.9303276

P.C.C.

16+20.45 6° 42' 01.5" 33.33'

15+87.12 5° 01' 32" "

15+53.79 3° 21' 01" "

15+20.46 1° 40' 31" 33.33'

B.C. Rt. 4=13° 24' 03" R=570'

14+87.13 L=133.32' d=3.015567

933.41' Tan. N. 27° 53' 45" W

E.C.

5+53.72 30° 47' 30" 53.69'

5+00 27° 48' 16" 99.84'

4+00 22° 14' 37" "

3+00 16° 40' 58" "

2+00 11° 07' 18" "

1+00 5° 33' 39" 99.84'

B.C. Lt. 4=61° 35' L=553.72

0+00 R=515.17' d=3.336516

P.C.C.

27+25.75 17° 08' 17" 25.75'

27+00 16° 44' 20" 99.99'

26+00 15° 11' 18" "

25+00 13° 38' 16" "

24+00 12° 05' 14" "

23+00 10° 32' 12" "

22+00 8° 59' 10" "

21+00 7° 26' 08" "

20+00 5° 53' 06" "

19+00 4° 20' 04" 99.99'

(See Sketch Pg. 65)

6+97.53
57+04.16 = 0+00 = Pt. of Beg.

1368.69' N. 89° 28' 45" W

43+96.07 92.79

99.13' 5.0° 31' 15" W

42+96.94

93.68

580.26' Tan. 54° 11' 45" E

E.C. 13.40

37+23.64 13° 18' 55" 13.40'

37+00 13° 08' 05" 100.00'

36+00 11° 47' 12" "

36+00 11° 39' 56" "

35+00 10° 26' 18" "

34+00 9° 05' 25" "

34+00 8° 59' 45" "

33+00 7° 44' 31" "

33+00 7° 39' 45" "

32+00 6° 23' 38" "

32+00 6° 19' 42" "

31+00 5° 02' 44" "

31+00 4° 59' 38" "

30+00 3° 41' 51" "

30+00 3° 39' 34" "

29+00 2° 20' 57" 100.00

29+00 2° 19' 31" 100.00

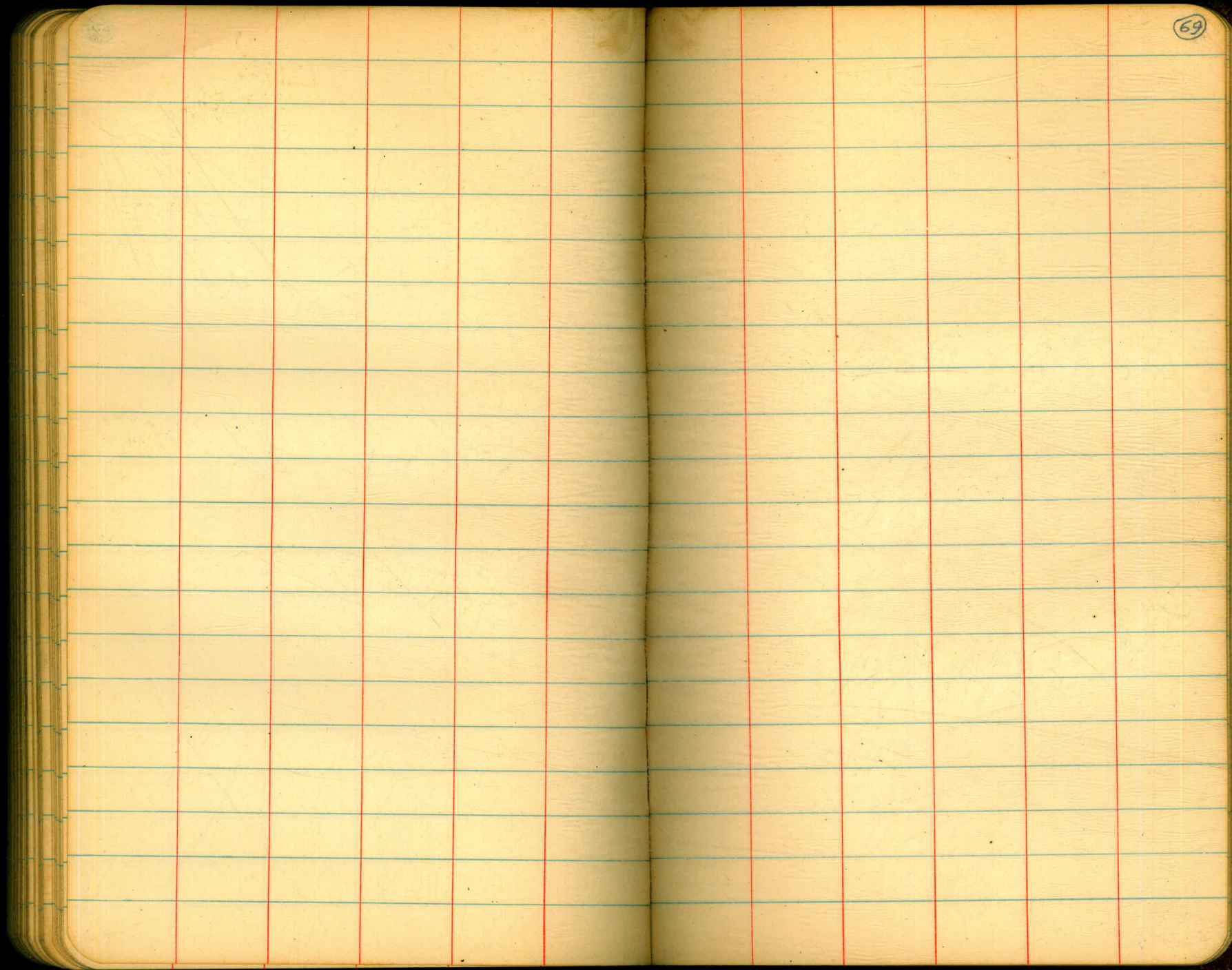
28+00 1° 00' 04" 74.25'

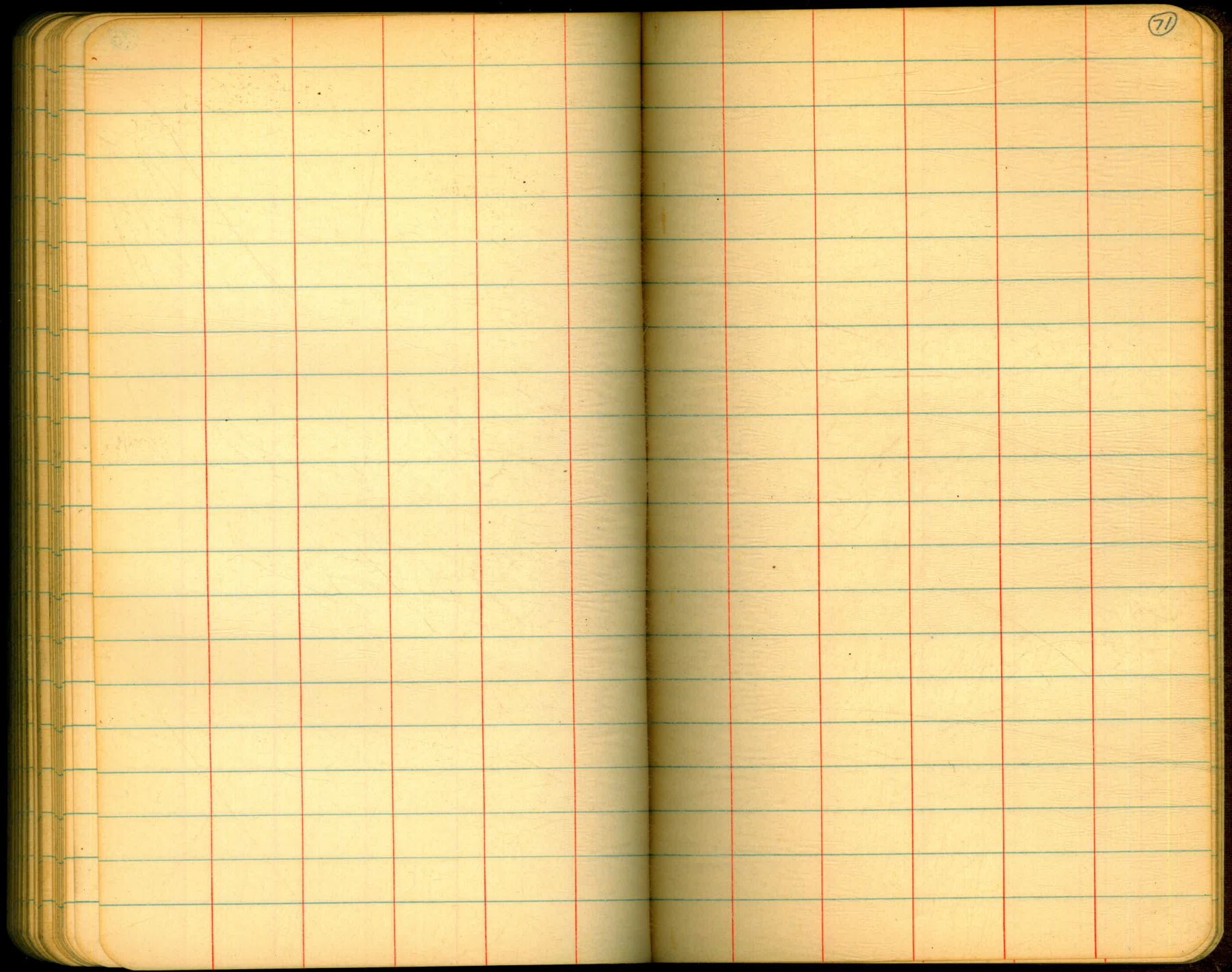
28+00 0° 59' 27" 74.25'

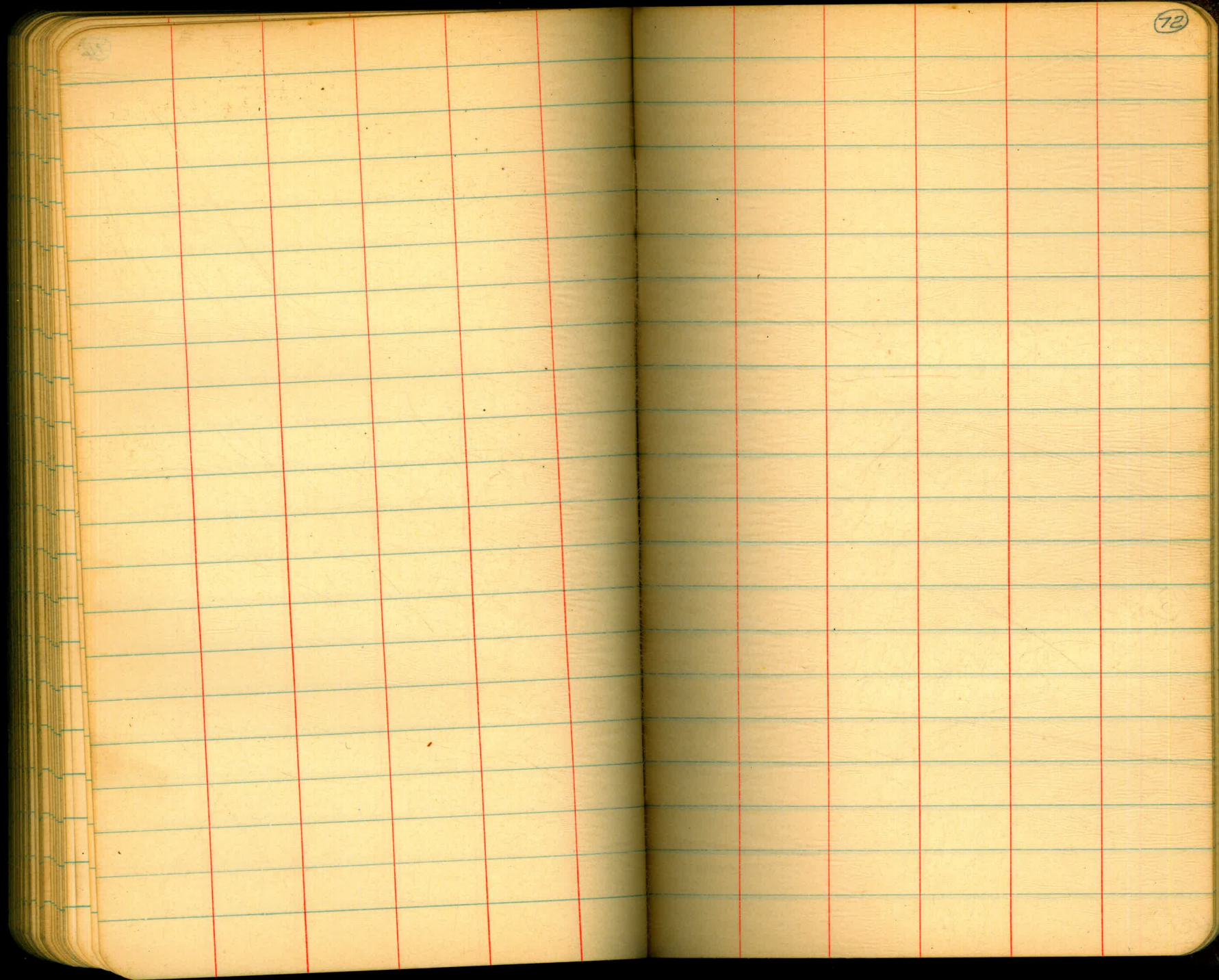
4=26° 37' 51" L=997.89'

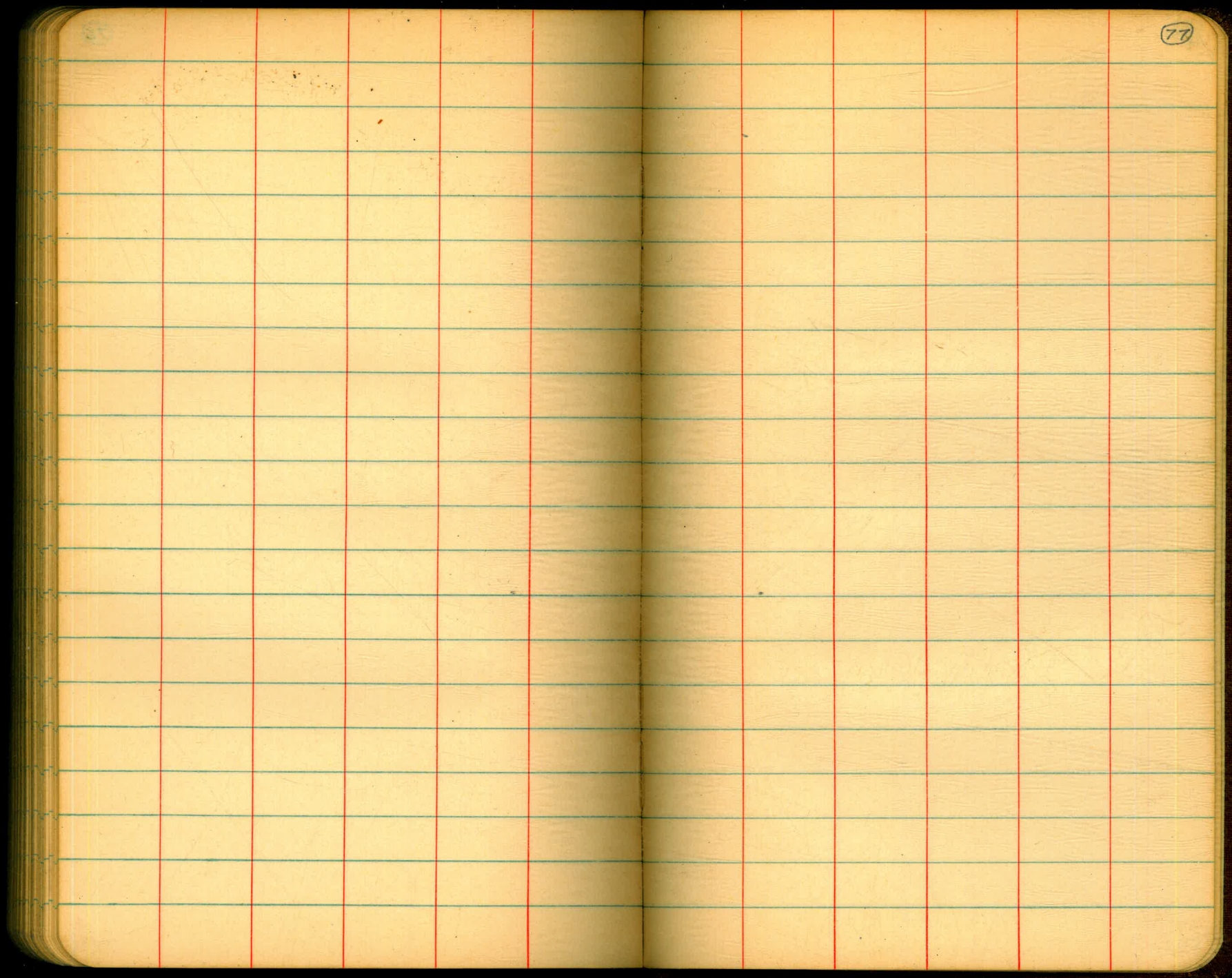
R=2146.94' d=0.800615

24.91 0.8089158









| Sta | Dist | Elev | H.I | B.M. |
|----------------|------|------|---------------|---------------|
| 134+00 | 150' | 5.7 | 14.65 | 9.5 |
| ✓ 133+00 | 190' | 6.0 | 14.25 | 9.32 4.93 |
| ✓ 132+00 | 220' | 5.9 | 15.36 9.46 | 10.35 4.89 |
| next 131+00 | 200' | 5.9 | 15.70 9.8 | 11.10 4.60 |
| 130+00 | 170' | 5.7 | 15.57 9.84 | 10.20 5.34 |
| 129+00 | | | | 10.31 |
| 128+00 | | | | 10.43 |
| 127+00 | | | | 10.29 |
| 126+00 | | | | 10.78 |
| 125+00 | | | | 10.65 |
| 124+00 | | | | 11.22 |
| 123+00 | | | | 11.78 |
| 122+00 | | | | 12.02 |
| 121+00 | | | | 11.97 |
| 120+00 | | | | 12.11 |

89-59 60 12.00
 17-08-17 5.3
 72-51-43 17.3
 1-24-29

(71-27-14) 12.59

12.59
 5.76

52+00 H.I. = 18.35

16+25.6 16+25.6
 34.9 29.4
 16 60.0 55.0

42.21

16+25.6
 10 10.7

45.3

1733.91
 42.21
 1776.12
 49.47
 1825.59
 38.56
 12.00
 1864.15

35.85

Wedge 17+33.91

Q 17+76.12

Edge 18+25.59

T 18+64.15

MH 20+01.50

16+25.59
 8

16+17.59

EL. 20.682 US C.E.G.S. "D" 132.

EL. 20.347 17.5 CITY OF SAN DIEGO
BM 46' E. OF TRACK
800' N. OF SIGN BOARD
at Morena & 25'S
OF Road Xing. &
with 1' apart.

9.5
5.15

14.65

8.95

5.70

STA 1000 N.
W 67° 54.51'



8.8

2.76

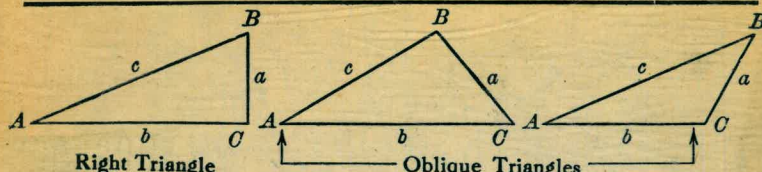
11.56

179-69

94-04-30

85°-56'

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin A = \frac{a}{c}$, $\cos A = \frac{b}{c}$, $\tan A = \frac{a}{b}$, $\cot A = \frac{b}{a}$, $\sec A = \frac{c}{b}$, $\csc A = \frac{c}{a}$

| Given | Required | |
|-------|----------|--|
| a, b | A, B, c | $\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$ |
| a, c | A, B, b | $\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$ |
| A, a | B, b, c | $B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$ |
| A, b | B, a, c | $B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$ |
| A, c | B, a, b | $B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$ |

Solution of Oblique Triangles

| Given | Required | |
|------------|----------|--|
| A, B, a | b, c, C | $b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$ |
| A, a, b | B, c, C | $\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$ |
| a, b, C | A, B, c | $A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$ |
| a, b, c | A, B, C | $s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$ |
| a, b, c | Area | $s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$ |
| A, b, c | Area | $\text{area} = \frac{b c \sin A}{2}$ |
| A, B, C, a | Area | $\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$ |

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page 1X, $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft. When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.