MISSION BAY

# 8

# EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto



## Distances from Center of Roadway for Cross-Sectioning

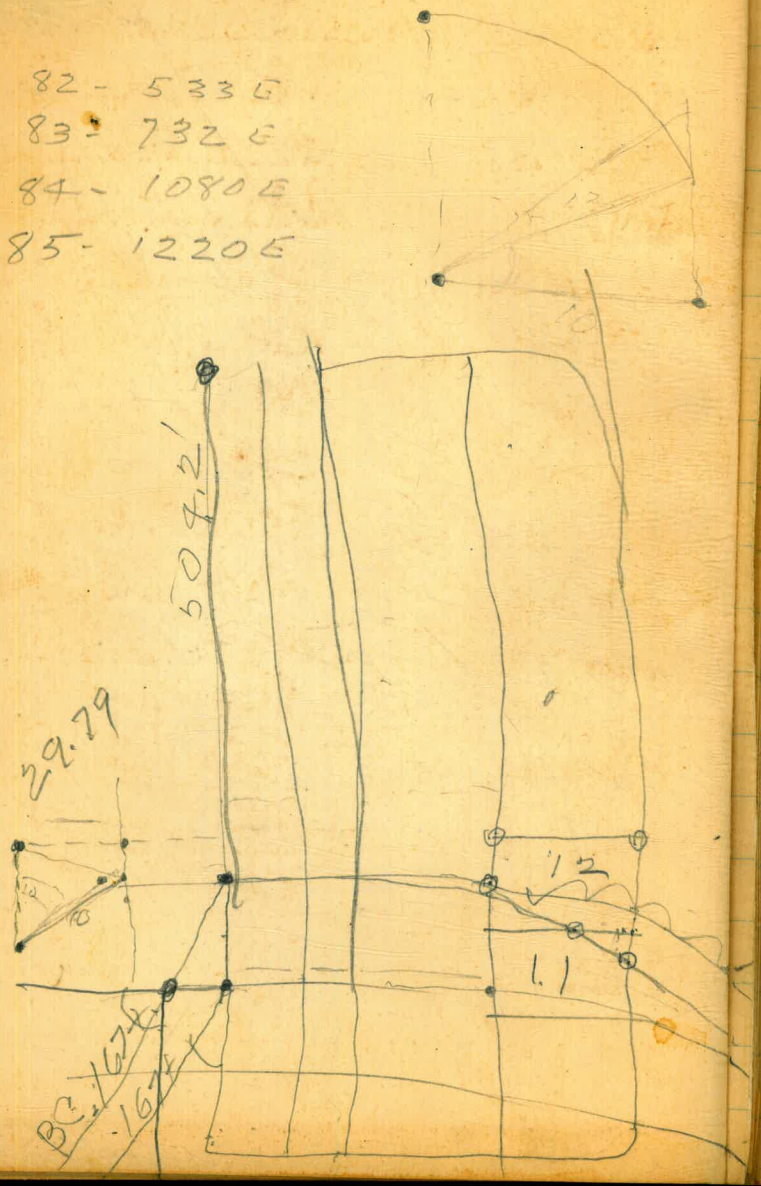
Roadway 16 feet wide. Side Slopes 1 on 1.

For Single Track Embankment.

| H | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 0 |
| 1 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 1 |
| 2 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 2 |
| 3 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 3 |
| 4 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 4 |
| 5 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 5 |
| 6 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 6 |
| 7 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 7 |
| 8 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 8 |
| 9 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 9 |
| 10 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 10 |
| 11 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 11 |
| 12 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 12 |
| 13 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 13 |
| 14 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 14 |
| 15 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 15 |
| 16 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 16 |
| 17 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 17 |
| 18 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 18 |
| 19 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 19 |
| 20 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 20 |
| 21 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 21 |
| 22 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 22 |
| 23 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 23 |
| 24 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 24 |
| 25 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 25 |
| 26 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 26 |
| 27 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 27 |
| 28 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 28 |
| 29 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 29 |
| 30 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 30 |
| 31 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 31 |
| 32 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 32 |
| 33 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 33 |
| 34 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 34 |
| 35 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 35 |
| 36 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 36 |
| 37 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 37 |
| 38 | 46.0 | 46.1 | 46.2 | 46.3 | 46.4 | 46.5 | 46.6 | 46.7 | 46.8 | 46.9 | 38 |
| 39 | 47.0 | 47.1 | 47.2 | 47.3 | 47.4 | 47.5 | 47.6 | 47.7 | 47.8 | 47.9 | 39 |
| 40 | 48.0 | 48.1 | 48.2 | 48.3 | 48.4 | 48.5 | 48.6 | 48.7 | 48.8 | 48.9 | 40 |

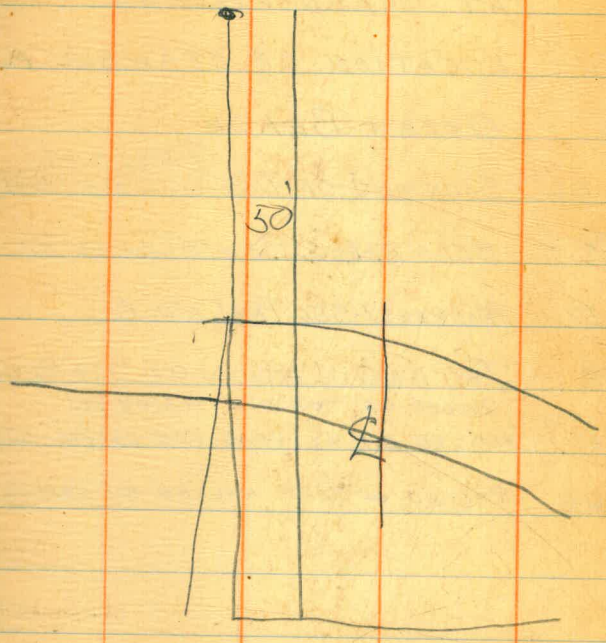
**Example**—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6 + (20—16) ÷ 2 or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

82 - 533 E
83 - 732 E
84 - 1080 E
85 - 1220 E




TITLE
ORIGINAL X-SECTIONS
TERRA DEL FUEGO PROJ. NO 6.

12



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Oct. 11 1946

PROJ. NO. 4-"A"

STATION 80+00

0+00 = 370 'E' OF ℄ RD. B/L.

| DIST | SOUND | | DIST | SOUND | |
|---|---|---|---|---|---|
| E. 70 (8:46) | 0.0 | +5.7 | 240 | 13.0 | -7.3 |
| 80 | 0.6 | +4.9 | 250 | 13.6 | -7.9 |
| 90 (5.7) | 1.7 | +4.0 | 260 | 13.2 | -7.3 |
| 100 | 2.2 | +3.5 | 270 | 12.9 | -7.2 |
| 110 | 3.0 | +2.7 | 280 | 13.6 | -7.9 |
| 120 | 4.1 | +1.6 | 290 | 14.3 | -8.6 |
| 130 | 5.7 | 0.0 | 300 | 15.2 | -9.5 |
| 140 | 5.6 | +0.1 | 310 | 15.4 | -9.7 |
| 150 | 5.5 | +0.2 | 320 | 15.1 | -9.4 |
| 160 | 5.3 | +0.4 | 330 (14.7) | 14.4 | -8.7 |
| 170 | 8.9 | -3.2 | 340 (14.9) | 14.3 | -8.6 |
| 180 | 12.0 | -6.3 | 350 | 13.9 | -8.2 |
| 190 | 12.7 | -7.0 | 360 (8:50) | 13.8 | -8.1 |
| 200 | 12.6 | -6.9 | 370 | 13.5 | -7.8 |
| 210 | 12.6 | -6.9 | 380 | 13.8 | -8.1 |
| 220 | 12.5 | -6.8 | 390 | 15.0 | -9.3 |
| 230 | 12.3 | -6.6 | 400 | 15.5 | -9.8 |

Sta.

| Dist | Sound | |
|---|---|---|
| 410 | 15.7 | -10.0 |
| 420 | 15.3 | -9.6 |
| 430 | 15.1 | -9.4 |
| 440 | 14.9 | -9.2 |
| 453 (14.7) | 13.1 | -7.4 |
| 460 (13) | 12.8 | -7.1 |
| 470 | 12.8 | -7.1 |
| 480 | 12.7 | -7.0 |
| 490 | 12.0 | -6.3 |
| 500 | 14.5 | -8.8 |

(8:53)

Indexed

Sta. 8/400 ①

+00 = 400' E. ℄ Rd. B/L.

(8:57 am)

| Dist. | Sound | |
|---|---|---|
| 62 (14.8) | 0.0 | +5.8 |
| 70 | 0.4 | +5.4 |
| 80 | 1.1 | +4.7 |
| 90 | 1.9 | +3.9 |
| 100 | 2.4 | +3.4 |
| 110 | 2.7 | +3.1 |
| 120 | 4.5 | +1.3 |
| 130 | — | — |
| 140 | 6.8 | -1.0 |
| 150 | 9.3 | -3.5 |
| 160 | 8.8 | -3.0 |
| 170 | 9.1 | -3.3 |
| 180 | 12.3 | -6.8 |
| 190 | 13.4 | -7.6 |
| 200 | 13.9 | -8.1 |
| 210 (9:00) | 13.8 | -8.0 |
| 220 | 13.8 | -8.0 |

81+00

| Dist. | Sound | | Dist. | Sound | |
|---|---|---|---|---|---|
| 230 | 14.0 | -8.2 | 410 | 15.3 | -9.5 |
| 240 | 14.0 | -8.2 | 420 | 15.4 | -9.6 |
| 250 | 14.0 | -8.2 | 430 | 15.0 | -9.2 |
| 260 | 13.9 | -8.1 | 440 | 15.2 | -9.4 |
| 270 | 14.0 | -8.2 | 450 | 15.0 | -9.2 |
| 280 | 14.2 | -8.4 | 460 | 14.7 | -8.9 |
| 290 | 14.3 | -8.5 | 470 | 14.2 | -8.4 |
| 300 | 14.1 | -8.3 | 480 | 14.1 | -8.3 |
| 310 (9:02) | 13.1 | -7.3 | 490 | 13.5 | -7.7 |
| 320 | 13.4 | -7.6 | 500 | 13.1 | -7.3 |
| 330 | 13.6 | -7.8 | (9:04) | | |
| 340 | 14.2 | -8.4 | | | |
| 350 | 14.7 | -8.9 | | | |
| 360 | 14.4 | -8.6 | | | |
| 370 | 13.8 | -8.0 | | | |
| 380 | 13.3 | -7.5 | | | |
| 390 | 14.1 | -8.3 | | | |
| 400 | 14.5 | -8.7 | | | |

82+00

| Dist. | Sound | | |
|---|---|---|---|
| 0+00 = 5.33' East. | | | |
| (9:09) | | | |
| 72 | 0.0 | +5.8 | |
| 80 | 0.8 | +5.0 | |
| 90 | 1.0 | +4.8 | |
| 100 | 1.8 | +4.0 | |
| 110 | 2.1 | +3.7 | |
| 120 | 3.0 | +2.8 | |
| 130 | 6.8 | -1.0 | |
| 140 | 7.6 | -1.8 | |
| (9:10) | | | |
| 150 | 7.9 | -2.1 | |
| 160 | 8.3 | -2.5 | |
| 170 | 9.0 | -3.2 | |
| 180 | 9.9 | -4.1 | |
| 190 | 10.1 | -4.3 | |
| 200 | 10.5 | -4.7 | |
| 210 | 10.9 | -5.1 | |
| 220 | 12.0 | -6.2 | |
| 230 | 13.3 | -7.5 | |
| 240 | 13.0 | -7.2 | |

83+00

| Dist. | Sound | |
|---|---|---|
| 250 | 13.5 | -7.7 |
| 260 | 13.5 | -7.7 |
| 270 | 14.2 | -8.4 |
| 280 | 14.2 | -8.4 |
| 290 | 14.0 | -8.2 |
| 300 | 14.3 | -8.5 |
| 310 | 14.2 | -8.4 |
| 320 | 14.8 | -9.0 |
| 330 | 14.8 | -9.0 |
| 340 | 14.7 | -8.9 |
| 350 | 14.8 | -9.0 |
| 360 | 14.4 | -8.6 |
| 370 | 13.9 | -8.1 |
| 380 | 13.9 | -8.1 |
| 390 | 14.3 | -8.5 |
| 400 | 14.4 | -8.6 |
| 410 | 14.4 | -8.6 |
| 420 | 14.5 | -8.7 |

82+00

| Dist | Sound | |
|---|---|---|
| (9:12) | | |
| 430 | 14.3 | -8.5 |
| 440 | 15.1 | -9.3 |
| 450 | 15.8 | -10.0 |
| 460 | 15.5 | -9.7 |
| 470 | 15.6 | -9.8 |
| 480 | 14.9 | -9.1 |
| 490 | 14.9 | -9.1 |
| 500 | 14.5 | -8.7 |
| (9:14) | | |

83+00

| Dist | Sound | |
|---|---|---|
| 400 - 732' E of B/L | | |
| (9:20) | | |
| 70 | 0.0 | +5.9 |
| 80 | 0.7 | +5.2 |
| 90 | 0.9 | +5.0 |
| 100 | 1.9 | +4.0 |
| 110 | 2.4 | +3.5 |
| 120 | 2.7 | +3.2 |
| 130 | 6.1 | -0.2 |
| 140 | 7.8 | -1.9 |
| 150 | 9.7 | -3.8 |
| 160 | 10.0 | -4.1 |
| 170 | 10.5 | -4.6 |
| 180 | 11.8 | -5.9 |
| 190 | 12.9 | -7.0 |
| 200 | 13.2 | -7.3 |
| 210 | 13.5 | -7.6 |
| 220 | 13.2 | -7.3 |
| 230 | 13.7 | -7.8 |
| 240 | 14.3 | -8.4 |

10/11/46 83+00 ③

| Dist | Sound | |
|---|---|---|
| (9:22) | | |
| 250 | 14.5 | -8.6 |
| 260 | 14.3 | -8.4 |
| 270 | 14.5 | -8.6 |
| 280 | 14.6 | -8.7 |
| 290 | 14.8 | -8.9 |
| 300 | 15.1 | -9.2 |
| 310 | 14.8 | -8.9 |
| 320 | 14.8 | -8.9 |
| 330 | 15.1 | -9.2 |
| 340 | 15.2 | -9.3 |
| 350 | 15.2 | -9.3 |
| 360 | 15.0 | -9.1 |
| 370 | 15.1 | -9.2 |
| 380 | 15.0 | -9.1 |
| 390 | 15.1 | -9.2 |
| 400 | 15.3 | -9.4 |
| 410 | 14.8 | -8.9 |
| (9:25) | | |
| 420 | 14.3 | -8.9 |
| 430 | 14.0 | -8.1 |

| Dist | Sound | |
|---|---|---|
| 440 | 13.5 | -7.6 |
| 450 | 14.0 | -8.1 |
| 460 | 14.1 | -8.2 |
| 470 | 14.0 | -8.1 |
| 480 | 13.9 | -8.0 |
| 490 | 14.2 | -8.3 |
| 500 | 14.8 | -8.9 |
| (9:26) | | |

84+00 10/11/46

| Dist. | Sound. | |
|---|---|---|
| 0+0 = 1008 E. of B/L | (9:44) | |
| 140 | 0.0 | +5.9 |
| 150 | 1.2 | +4.7 |
| 160 | 1.8 | +4.1 |
| 170 | 2.3 | +3.6 |
| 180 | 2.8 | +3.1 |
| 190 | 3.5 | +2.4 |
| 200 | 5.2 | +0.7 |
| 210 | 7.1 | -1.2 |
| 220 | 9.8 | -3.9 |
| 230 | 10.9 | -5.0 |
| 240 | 11.4 | -5.5 |
| 250 | 12.3 | -6.4 |
| 260 | 13.9 | -8.0 |
| 270 | 14.5 | -8.6 |
| 280 | 14.3 | -8.4 |
| 290 | 14.4 | -8.5 |
| 300 | 14.5 | -8.6 |

| Dist. | Sound | |
|---|---|---|
| | (9:47) | |
| 310 | 14.0 | -8.1 |
| 320 | 14.0 | -8.1 |
| 330 | 14.8 | -8.9 |
| 340 | 14.7 | -8.8 |
| 350 | 14.8 | -8.9 |
| 360 | 15.1 | -9.2 |
| 370 | 15.0 | -9.1 |
| 380 | 14.8 | -8.9 |
| 390 | 14.0 | -8.1 |
| 400 | 14.2 | -8.3 |
| 410 | 14.0 | -8.1 |
| 420 | 13.8 | -7.9 |
| 430 | 13.8 | -7.9 |
| 440 | 13.9 | -8.0 |
| 450 | 13.8 | -7.9 |
| 460 | 14.1 | -8.2 |
| | (9:50) | |
| 470 | 14.9 | -9.0 |
| 480 | 14.5 | -8.6 |
| 490 | 14.3 | -8.4 |
| 500 | 14.5 | -8.6 |

| Dist. | Sound | |
|---|---|---|
| 510 | 14.5 | -8.6 |
| 520 | 14.3 | -8.4 |
| 530 | 14.2 | -8.3 |
| 540 | 14.1 | -8.2 |
| 550 | 14.3 | -8.4 |
| 560 | 14.0 | -8.1 |
| 570 | 13.5 | -7.6 |
| 580 | 14.3 | -8.4 |
| 590 | 14.4 | -8.5 |
| 600 | 14.0 | -8.1 |
| | (9:51) | |

85+00 (4)

| Dist. | Sound | |
|---|---|---|
| 0+0 = 1220' E. of B/L | (9:56) | |
| 55 | 0.0 | +5.9 |
| 60 | 0.8 | +5.1 |
| 70 | 1.0 | +4.9 |
| 80 | 2.1 | +3.8 |
| 90 | 3.8 | +2.1 |
| 100 | 2.2 | +3.7 |
| 110 | 5.7 | +0.2 |
| 120 | 6.9 | -1.0 |
| 130 | 7.7 | -1.8 |
| 140 | 10.9 | -5.0 |
| 150 | 12.7 | -6.8 |
| 160 | 13.3 | -7.4 |
| | (10:00) | |
| 170 | 13.2 | -7.3 |
| 180 | 13.3 | -7.4 |
| 190 | 14.3 | -8.4 |
| 200 | 14.2 | -8.3 |
| 210 | 14.5 | -8.6 |

85+00 10/11/46

| Dist. | Sound. | | Dist. | Sound | |
|---|---|---|---|---|---|
| 220 | 14.8 | -8.9 | 420 | 14.0 | -8.1 |
| 230 | 15.1 | -9.2 | 420 | 14.0 | -8.1 |
| 240 | 15.2 | -9.3 | 430 | 14.1 | -8.2 |
| 250 | 15.2 | -9.3 | 440 | 14.0 | -8.1 |
| 260 | 14.9 | -9.0 | 450 | 14.0 | -8.1 |
| 270 | 14.8 | -8.9 | 460 | 14.1 | -8.2 |
| 280 | 14.1 | -8.2 | 470 | 14.2 | -8.3 |
| 290 | 13.4 | -7.5 | 480 | 14.2 | -8.3 |
| 300 | 14.2 | -7.3 | 490 | 14.0 | -8.1 |
| 310 | 15.5 | -9.6 | 500 | 13.9 | -8.0 |
| 320 | 16.0 | -10.1 | 10:05 | | |
| 330 | 15.9 | -10.0 | | | |
| 340 | 15.9 | -10.0 | | | |
| 350 | 15.6 | -9.7 | | | |
| 360 | 15.4 | -9.5 | | | |
| 370 | 15.9 | -10.0 | | | |
| 380 | 16.0 | -10.1 | | | |
| 390 | 16.1 | -10.2 | | | |
| 400 | 14.5 | -9.6 | | | |

10-12-46 (5)

P.X ORIGINAL SOUNDINGS

STA. 83+00

0+00 = CAUSEWAY - SOUND West

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | | | | 9.5 | -4.2 |
| | | | | 10.4 | -5.1 |
| 29 | 0.0 | +5.3 | | 10.0 | -4.7 |
| 30 | 1.2 | +4.1 | 2+00 | 9.2 | -3.9 |
| | 3.0 | +2.3 | | 8.6 | -3.3 |
| 50 | 5.3 | 0.0 | | 5.0 | +0.3 |
| | 7.7 | -2.4 | (53) | 2.9 | +2.4 |
| (53) | 9.6 | -4.3 | | 2.9 | +2.4 |
| | 10.0 | -4.7 | 50 | 2.9 | +2.4 |
| 9+04 | 10.7 | -5.4 | 9+06 | 2.9 | +2.4 |
| 1+00 | 11.0 | -5.7 | | 2.8 | +2.5 |
| | 11.0 | -5.7 | | 2.2 | +3.1 |
| | 10.8 | -5.5 | SET-MATH | | |
| | 10.7 | -5.4 | | | |
| | 10.4 | -5.1 | | | |
| 50 | 10.0 | -4.7 | | | |
| | 9.6 | -4.3 | | | |

10-12-46

P.X

STA. 84+00

0+00 = CAUSEWAY - SOUND West

| D | S | | D | S | |
|---|---|---|---|---|---|
| 22 | 0.0 | +5.4 | 90 | 10.5 | -5.1 |
| 30 | 1.4 | +4.0 | 2+00 | 10.0 | -4.6 |
| 40 | 2.5 | +2.9 | 10 | 10.0 | -4.6 |
| 50 | 5.0 | +0.4 | 20 | 6.0 | -0.6 |
| 1 60 | 7.3 | -1.9 | 30 | 3.5 | +1.9 |
| 70 | 10.0 | -4.6 | 40 | 2.0 | +3.4 |
| 80 | 10.4 | -5.0 | 9[illegible]6 50 | 1.8 | +3.6 |
| 90 | 10.9 | -5.5 | | LA+H | |
| 1+00 | 10.3 | -4.9 | | | |
| 9[illegible]10 | 10.9 | -5.5 | | | |
| 20 | 10.4 | -5.0 | | | |
| 30 | 11.0 | -5.6 | | | |
| 40 | 11.0 | -5.6 | | | |
| 50 | 10.6 | -5.2 | | | |
| 60 | 11.0 | -5.6 | | | |
| 70 | 10.3 | -4.9 | | | |
| 80 | 10.6 | -5.2 | | | |

10-12-46

(6)

P.X

STA. 99+00

0+00 = Range 100 - SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 3.3 | +2.4 | | 2.7 | +3.0 |
| | 3.3 | | | 2.7 | |
| | 3.3 | | | 2.7 | |
| | 3.3 | | 2+00 | 2.7 | +3.0 |
| | 3.3 | | | 2.8 | +2.9 |
| 50 | 3.3 | +2.4 | | 3.0 | +2.7 |
| 93[illegible] | 3.2 | +2.5 | | 3.4 | +2.3 |
| | 3.2 | +2.5 | | 3.5 | +2.2 |
| | 3.2 | +2.5 | 50 | 3.6 | +2.1 |
| | 3.1 | +2.6 | 937 | 3.7 | +2.0 |
| 1+00 | 3.0 | +2.7 | | 3.8 | +1.9 |
| | 3.0 | | | 4.0 | +1.7 |
| | 3.0 | | | 4.2 | +1.5 |
| | 3.0 | +2.7 | 3+00 | 4.6 | +1.1 |
| | 2.8 | +2.9 | | 4.9 | +0.8 |
| 50 | 2.9 | +2.8 | | 5.0 | +0.7 |
| | 2.7 | +3.0 | 30 | 4.6 | +1.1 |

P.I. STA 99+00

| D | S | | O | S | |
|---|---|---|---|---|---|
| 40 | 9.4 | +1.3 | 20 | 3.4 | |
| 50 | 4.2 | +1.5 | | 3.4 | +2.3 |
| | 3.8 | +1.9 | | 3.5 | +2.2 |
| | 3.0 | +2.7 | 30 | 3.5 | +2.2 |
| | 2.7 | +3.0 | | 3.5 | +2.2 |
| | 2.5 | +3.2 | | 3.5 | +2.2 |
| 9+00 | 2.5 | +3.2 | (5.7) | 3.6 | +2.1 |
| | 2.5 | +3.2 | 939 | 3.5 | +2.2 |
| 939 | | | | | |
| (5.7) | 2.7 | +3.0 | 6+00 | 3.6 | +2.1 |
| | 2.9 | +2.8 | | 3.6 | +2.1 |
| | 3.0 | +2.7 | | 3.7 | +2.0 |
| 50 | 3.0 | +2.7 | | 3.7 | +2.0 |
| | 3.0 | +2.7 | | 3.7 | +2.0 |
| | 3.3 | +2.4 | 50 | 3.6 | +2.1 |
| | 3.3 | +2.4 | | 3.4 | +2.3 |
| | 3.4 | +2.3 | | 3.5 | +2.2 |
| 5+00 | 3.4 | +2.3 | | 3.6 | +2.1 |
| | 3 4 | +2.3 | | 3.7 | +2.0 |



P.I. STA 99+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 3.8 | +1.9 | | 4.2 | +1.6 |
| | 4.0 | +1.7 | | 4.2 | +1.6 |
| | 4.0 | +1.7 | 9+00 | 4.3 | +1.5 |
| | 4.2 | +1.5 | | 4.4 | +1.4 |
| | 4.1 | +1.6 | | 4.3 | +1.5 |
| 50 | 4.0 | +1.7 | | 4.1 | +1.7 |
| (5.7) | 4.0 | | | 4.0 | +1.8 |
| 940 | 4.0 | | 50 | 3.6 | +2.2 |
| | 4.0 | | 941 | 3.6 | +2.2 |
| | 4.0 | | (5.8) | 3.7 | +2.1 |
| 8+00 | 4.0 | | | 3.8 | +2.0 |
| | 4.0 | +1.7 | | 4.0 | +1.8 |
| | 3.9 | +1.8 | 10+00 | 9.0 | +1.8 |
| | 3.9 | | | 4.0 | +1.8 |
| | 3.9 | | | 4.2 | +1.6 |
| 50 | 3.9 | +1.8 | | 4.2 | +1.6 |
| | 4.0 | +1.7 | | 4.3 | +1.5 |
| | 4.1 | +1.6 | 50 | 4.2 | +1.6 |

| P.I. D | S | STA. | D | S | |
|---|---|---|---|---|---|
| 60 | 4.2 | +1.6 | | 4.0 | +1.8 |
| | 4.3 | +1.5 | 5+00 | 4.0 | |
| | 4.4 | +1.4 | | 4.0 | |
| | 4.5 | +1.3 | | 4.0 | +1.8 |
| 11+00 | 4.4 | +1.4 | | 3.9 | +1.9 |
| | 4.3 | +1.5 | | 3.9 | |
| (5.8) | 4.2 | +1.6 | 13+00 | 3.9 | |
| | 4.2 | +1.6 | | 3.9 | +1.9 |
| 943 | 4.1 | +1.4 | (5.8) | 4.0 | +1.8 |
| 50 | 4.3 | +1.5 | | 4.0 | |
| | 4.3 | +1.5 | 944 | 4.0 | |
| | 4.2 | +1.6 | 50 | 4.0 | |
| | 4.2 | | | 4.0 | |
| | 4.2 | | | 4.0 | +1.8 |
| 12+00 | 4.2 | +1.6 | | 4.8 | +1.0 |
| | 4.1 | +1.7 | | 4.9 | +0.9 |
| | 4.2 | +1.6 | 14+00 | 7.9 | -2.1 |
| | 4.1 | +1.7 | | 9.7 | -3.9 |

| P.I. D | S | STA. | D | S | |
|---|---|---|---|---|---|
| | 10.2 | -5.4 | 16+00 | 2.4 | +3.4 |
| | 11.3 | -5.5 | 10 | 1.5 | +4.3 |
| | 12.0 | -6.2 | | | |
| 50 | 12.2 | -6.4 | | | |
| | 12.4 | -6.6 | | | |
| | 12.3 | -6.5 | | | |
| | 12.0 | -6.2 | | | |
| 947 | 10.6 | -4.8 | | | |
| 15+00 | 9.7 | -3.9 | | | |
| (5.8) | 8.9 | -3.1 | | | |
| | 8.2 | -2.4 | | | |
| | 8.0 | -2.2 | | | |
| | 8.0 | -2.2 | | | |
| 50 | 6.9 | -1.1 | | | |
| | 4.7 | +1.1 | | | |
| | 3.4 | +2.4 | | | |
| | 3.0 | +2.8 | | | |
| | 2.7 | +3.1 | | | |

10-12-46

P.X. STA. 99+00

0+00 = Range 100 - SOUND west

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | | | | 3.7 | +2.2 |
| | 3.8 | +2.1 | | 3.7 | |
| | 4.0 | +1.9 | | 3.7 | |
| | 4.0 | +1.9 | 2+00 | 3.7 | +2.2 |
| | 3.8 | +2.1 | | 3.5 | +2.4 |
| 5.9 50 | 3.6 | +2.3 | | 3.5 | |
| 95.6 | 3.7 | +2.2 | 95.8 | 3.5 | |
| | 3.8 | +2.1 | 5.9 | 3.5 | |
| | 3.7 | +2.2 | 50 | 3.5 | +2.4 |
| | 3.8 | +2.1 | | 3.4 | +2.5 |
| 1+00 | 3.7 | +2.2 | | 3.5 | +2.4 |
| | 3.9 | +2.0 | | 3.5 | +2.4 |
| | 3.8 | +2.1 | | 3.5 | +2.4 |
| | 3.7 | +2.2 | 3+00 | 3.4 | +2.5 |
| | 3.6 | +2.3 | | 3.3 | +2.6 |
| 50 | 3.7 | +2.3 | | 3.0 | +2.9 |
| | 3.8 | +2.1 | | 2.9 | +3.0 |



P.X. STA. 99+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 40 | 2.7 | +3.2 | | 1.9 | +4.0 |
| 50 | 2.4 | +3.5 | | 1.9 | +4.0 |
| 60 | 2.5 | +3.4 | | 2.0 | +3.9 |
| 70 | 2.7 | +3.7 | 50 | 2.1 | +3.8 |
| 80 | 1.9 | +4.0 | | 2.8 | +3.1 |
| 90 | 1.9 | | | 2.7 | +3.8 |
| 4+00 | 1.9 | | 6.0 | 2.0 | +4.0 |
| | 1.9 | | 95.9 | 1.9 | +4.1 |
| | 1.9 | | 6+00 | 1.9 | +4.1 |
| | 1.9 | +4.0 | | 1.8 | +4.2 |
| | 1.8 | +4.1 | | 1.8 | +4.2 |
| 50 | 1.8 | | | 1.8 | +4.2 |
| | 1.8 | | | 2.0 | +4.0 |
| | 1.8 | +4.1 | 50 | 2.1 | +3.9 |
| | 2.0 | +3.9 | | 2.0 | +4.0 |
| | 2.0 | | | 2.0 | +4.0 |
| 5+00 | 2.0 | | | 2.4 | +3.6 |
| | 2.0 | +3.9 | | 2.8 | +3.2 |

P.X. STA. 99+00

| D | S | |
|---|---|---|
| 7+00 | 2.7 | +3.3 |
| | 3.3 | +2.7 |
| | 2.8 | +3.2 |
| | 2.0 | +4.0 |
| | 1.9 | +4.1 |
| 50 | 1.8 | +4.2 |
| | 1.9 | +4.1 |
| (6.0) | 2.3 | +3.7 |
| 10°° | 2.9 | +3.1 |
| | 3.1 | +2.9 |
| 8+00 | 3.5 | +2.5 |
| | 3.7 | +2.3 |
| | 4.0 | +2.0 |
| | 4.0 | |
| | 4.0 | |
| 50 | 4.0 | |
| | 4.0 | +2.0 |
| | 4.1 | +1.9 |

| D | S | |
|---|---|---|
| | 4.3 | +1.7 |
| | 4.3 | +1.7 |
| 9+00 | 4.2 | +1.8 |
| | 4.4 | +1.6 |
| | 4.6 | +1.4 |
| | 4.9 | +1.1 |
| 10°2 | 4.8 | +1.2 |
| 50 | 4.5 | +1.5 |
| (6.0) | 4.3 | +1.7 |
| | 4.4 | +1.6 |
| | 4.4 | +1.6 |
| | 4.9 | +1.1 |
| 10+00 | 4.4 | +1.6 |
| | 5.3 | +0.7 |
| | 5.0 | +1.0 |
| | 4.5 | +1.5 |
| | 4.2 | +1.8 |
| 50 | 4.0 | +2.0 |



P.X. STA. 99+00

| D | S | |
|---|---|---|
| | 4.0 | +2.0 |
| | 4.0 | +2.0 |
| | 4.0 | +2.0 |
| | 4.1 | +1.9 |
| 11+00 | 4.3 | +1.7 |
| | 4.5 | +1.5 |
| (6.0) | 4.6 | +1.4 |
| | 5.0 | +1.0 |
| 10°9 | 5.3 | +0.7 |
| 50 | 5.8 | +0.2 |
| | 5.9 | +0.1 |
| | 6.0 | 0.0 |
| | 5.8 | +0.2 |
| | 5.4 | +0.6 |
| 12+00 | 5.3 | +0.7 |

10-12-46

P.K. STA. 98+00

0+00 = Range 100+00 SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 3.8 | +2.2 | | 2.7 | +3.3 |
| | 3.8 | +2.2 | | 2.8 | +3.2 |
| | 3.7 | +2.3 | | 2.7 | +3.3 |
| | 3.7 | | 2+00 | 2.8 | +3.2 |
| | 3.7 | | | 2.8 | +3.2 |
| 50 | 3.7 | +2.3 | | 3.2 | +2.8 |
| | 3.6 | +2.4 | (6.0) | 4.1 | +1.9 |
| 10 19 | 3.6 | +2.4 | 16 20 | 4.2 | +1.8 |
| (6.0) | 3.5 | +2.5 | 50 | 4.3 | +1.7 |
| | 3.4 | +2.6 | | 4.7 | +1.3 |
| 1+00 | 3.5 | +2.5 | | 4.8 | +1.2 |
| | 3.4 | +2.6 | | 4.8 | +1.2 |
| | 3.4 | +2.6 | | 5.0 | +1.0 |
| | 3.2 | +2.8 | 3+00 | 5.1 | +0.9 |
| | 3.0 | +3.0 | | 5.1 | +0.9 |
| 50 | 2.9 | +3.1 | | 5.0 | +1.0 |
| | 2.8 | +3.2 | | 4.9 | +1.1 |



P.K. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 4.5 | +1.5 | | 3.5 | +2.5 |
| 50 | 4.3 | +1.7 | | 3.4 | +2.6 |
| | 4.0 | +2.0 | | 3.3 | +2.7 |
| | 3.0 | +3.0 | 50 | 3.3 | +2.7 |
| | 2.7 | +3.3 | | 3.2 | +2.8 |
| | 2.5 | +3.5 | | 3.3 | +2.8 |
| 4+00 | 2.5 | +3.5 | (6.0) | 4.4 | +1.6 |
| 10 21 | 2.6 | +3.4 | 10 32 | 4.9 | +1.1 |
| | 2.8 | +3.2 | 6+00 | 5.0 | +1.0 |
| (6.0) | 2.9 | +3.1 | | 5.0 | +1.0 |
| | 3.0 | +3.0 | | 4.8 | +1.2 |
| 50 | 3.1 | +2.9 | | 4.5 | +1.5 |
| | 3.2 | +2.8 | | 3.8 | +2.2 |
| | 3.2 | +2.8 | 50 | 3.3 | +2.7 |
| | 3.3 | +2.7 | | 3.6 | +2.4 |
| | 3.4 | +2.6 | | 3.8 | +2.2 |
| 5+00 | 3.4 | +2.6 | | 3.9 | +2.1 |
| | 3.4 | +2.6 | | 3.9 | +2.1 |

P.I. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 4.0 | +2.0 | | 4.3 | +1.7 |
| | 4.0 | | | 4.2 | +1.8 |
| | 4.0 | | 9+00 | 4.3 | +1.7 |
| | 4.0 | | | 4.3 | |
| | 4.0 | | | 4.3 | |
| 50 | 4.0 | | (6.0) | 4.3 | |
| 1024 | 4.0 | | 1025 | 4.3 | +1.7 |
| (6.0) | 4.0 | | 50 | 4.2 | +1.8 |
| | 4.0 | | | 3.9 | +2.1 |
| | 4.0 | | | 3.8 | +2.2 |
| 8+00 | 4.0 | | | 3.7 | +2.3 |
| | 4.0 | | | 3.8 | +2.2 |
| | 4.0 | | 10+00 | 3.8 | +2.2 |
| | 4.0 | | | 4.3 | +1.7 |
| | 4.0 | +2.0 | | 4.9 | +1.1 |
| 50 | 4.1 | +1.9 | | 5.3 | +0.7 |
| | 4.2 | +1.8 | | 5.4 | +0.6 |
| | 4.2 | +1.8 | 50 | 5.4 | +0.6 |

P.I. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 5.3 | +0.7 | | 4.0 | +2.0 |
| | 5.0 | +1.0 | 50 | 4.0 | |
| | 4.8 | +1.2 | | 4.0 | |
| | 4.5 | +1.5 | | 4.0 | |
| 11+00 | 4.0 | +2.0 | | 4.0 | +2.0 |
| | 4.0 | +2.0 | | 4.1 | +1.9 |
| (6.0) | 3.9 | +2.1 | 13+00 | 4.0 | +2.0 |
| 1026 | 3.9 | +2.1 | 1027 | 4.0 | +2.0 |
| | 4.0 | +2.0 | | 4.0 | +2.0 |
| 50 | 4.0 | | (6.0) | 4.1 | +1.9 |
| | 4.0 | | | 4.1 | +1.9 |
| | 4.0 | +2.0 | 50 | 4.0 | +2.0 |
| | 4.1 | +1.9 | | 4.0 | |
| | 4.1 | | | 4.0 | |
| 12+00 | 4.1 | | | 4.0 | +2.0 |
| | 4.1 | | | 4.1 | +1.9 |
| | 4.1 | | 14+00 | 4.3 | +1.7 |
| | 4.1 | +1.9 | | 5.2 | +0.8 |

P.K. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 9.1 | -3.1 | 16+00 | 2.9 | +3.1 |
| | 10.2 | -4.2 | 10 | 2.6 | +3.4 |
| | 11.0 | -5.0 | 20 | 2.0 | +4.0 |
| 50 | 12.0 | -6.0 | 27 | 0.0 | +6.0 |
| | 12.8 | -6.8 | | | |
| | 12.8 | -6.8 | | | |
| | 12.9 | -6.9 | | | |
| 1028 | 12.9 | -6.9 | | | |
| | 12.9 | -6.9 | | | |
| 15+00 | 12.2 | -6.2 | | | |
| (6.0) | 11.4 | -5.4 | | | |
| | 11.0 | -5.0 | | | |
| | 10.0 | -4.0 | | | |
| | 9.3 | -3.3 | | | |
| 50 | 8.7 | -2.7 | | | |
| | 8.0 | -2.0 | | | |
| | 5.9 | +0.1 | | | |
| | 4.0 | +2.0 | | | |
| | 3.1 | +2.9 | | | |

10-12-46 (13)

P.K. STA. 98+00

0+00 = Range 100 +South West

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | | | | 4.0 | +2.2 |
| | 3.9 | +2.3 | | 4.0 | |
| | 3.9 | +2.3 | | 4.0 | |
| | 4.0 | +2.2 | 2+00 | 4.0 | |
| | 4.0 | +2.2 | | 4.0 | |
| 50 | 4.0 | | (6.2) | 4.0 | |
| | 4.0 | | | 4.0 | |
| 1038 | 4.0 | | 1039 | 4.0 | |
| (6.2) | 4.0 | | | 4.0 | |
| | 4.0 | | 50 | 4.0 | +2.2 |
| | 4.0 | +2.2 | | 3.9 | +2.3 |
| 1+00 | 3.9 | +2.3 | | 3.9 | +2.3 |
| | 3.9 | +2.3 | | 3.8 | +2.4 |
| | 3.8 | +2.4 | | 3.8 | +2.4 |
| | 3.9 | +2.3 | 3+00 | 3.7 | +2.5 |
| | 4.0 | +2.2 | | 3.6 | +2.6 |
| 50 | 4.0 | +2.2 | | 3.7 | +2.5 |
| | 4.0 | +2.2 | | 3.5 | +2.7 |

P.I. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 3.0 | +3.2 | | 2.1 | +4.1 |
| 5'0 | 2.9 | +3.3 | | 2.1 | |
| | 2.7 | +3.5 | | 2.1 | |
| | 2.6 | +3.6 | 5'0 | 2.1 | |
| | 2.6 | +3.6 | | 2.1 | |
| | 2.6 | +3.6 | | 2.1 | |
| 4+0'0 | 2.4 | +3.8 | 6.2 | 2.1 | +4.1 |
| 10.90 | 2.3 | +3.9 | | 2.8 | +3.4 |
| 6.2 | 2.0 | +4.2 | 6+00 | 2.8 | +3.4 |
| | 2.0 | | 10.41 | 2.2 | +4.0 |
| | 2.0 | | | 2.1 | +4.1 |
| 5'0 | 2.0 | | | 2.0 | +4.2 |
| | 2.0 | | | 2.0 | |
| | 2.0 | +4.2 | 5'0 | 2.0 | |
| | 2.1 | +4.1 | | 2.0 | |
| | 2.0 | +4.2 | | 2.0 | |
| 5+00 | 2.0 | +4.2 | | 2.0 | |
| | 2.0 | +4.2 | | 2.0 | +4.2 |



P.I. STA. 98+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+0.0 | 2.0 | +4.2 | | 4.3 | +1.9 |
| | 2.0 | +4.2 | | 4.3 | +1.9 |
| | 2.2 | +4.0 | 9+00 | 4.4 | +1.8 |
| | 2.0 | +4.2 | | 4.4 | +1.8 |
| | 2.0 | +4.2 | | 4.4 | +1.8 |
| 50 | 2.0 | +4.2 | | 4.9 | +1.3 |
| 6.2 | 2.3 | +3.9 | 6.2 | 5.0 | +1.2 |
| 6.2 | 2.4 | +3.8 | 50 | 4.9 | +1.3 |
| 10.43 | 2.8 | +3.4 | 10.95 | 4.8 | +1.4 |
| | 3.0 | +3.2 | | 4.3 | +1.9 |
| 8+00 | 3.5 | +2.7 | | 4.3 | +1.9 |
| | 4.0 | +2.2 | | 4.3 | +1.9 |
| | 4.0 | +2.2 | 10+00 | 4.2 | +2.0 |
| | 4.0 | | | 4.2 | |
| | 4.0 | | | 4.2 | |
| 50 | 4.0 | +2.2 | | 4.2 | +2.0 |
| | 4.2 | +2.0 | | 4.3 | +1.9 |
| | 4.2 | +2.0 | 50 | 5.0 | +1.2 |

P.X. STA. 98+00

| D | S | |
|---|---|---|
| | 5.7 | +0.5 |
| | 5.5 | +0.7 |
| | 5.0 | +1.2 |
| | 4.5 | +1.7 |
| 11+00 | 4.6 | +1.6 |
| | 5.0 | +1.2 |
| | 5.2 | +0.9 |
| 10 47 | 5.4 | +0.8 |
| (6.2) | 5.8 | +0.4 |
| 50 | 5.8 | +0.4 |

10-12-96

(13)

P.X. STA 97+00

0+00 = Range 100 - SOUND West

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 3.4 | +2.8 | | 3.4 | +2.8 |
| | 3.4 | +2.8 | | 3.4 | +2.8 |
| | 3.6 | +2.6 | | 3.4 | +2.8 |
| | 3.6 | +2.6 | 2+00 | 3.5 | +2.7 |
| (6.2) | 3.4 | +2.8 | | 3.4 | +2.8 |
| 50 | 3.7 | +2.5 | (6.2) | 3.6 | +2.6 |
| | 3.5 | +2.7 | | 3.7 | +2.5 |
| 10 55 | 3.6 | +2.6 | 10 ~~50~~ | 3.8 | +2.4 |
| | 3.7 | +2.5 | 50 | 3.9 | +2.3 |
| | 3.8 | +2.4 | | 3.8 | +2.4 |
| 1+00 | 3.8 | +2.4 | | 3.8 | +2.4 |
| | 3.6 | +2.6 | | 3.6 | +2.6 |
| | 3.6 | +2.6 | | 3.3 | +2.9 |
| | 3.7 | +2.5 | 3+00 | 3.2 | +3.0 |
| | 3.7 | +2.5 | | 2.8 | +3.4 |
| 50 | 3.4 | +2.8 | | 2.8 | +3.4 |
| | 3.4 | +2.8 | | 2.7 | +3.5 |

P.X. STA 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.7 | +3.5 | | 2.0 | +4.2 |
| 5'0 | 2.5 | +3.7 | | 2.0 | |
| | 2.6 | +3.6 | | 2.0 | |
| | 2.4 | +3.8 | 5'0 | 2.0 | |
| | 2.3 | +3.9 | | 2.0 | +4.2 |
| | 2.2 | +4.0 | (6.2) | 2.1 | +4.1 |
| 9+00 | 2.1 | +4.1 | | 2.1 | +4.1 |
| | 2.4 | +3.8 | 11 50 | 2.0 | +4.2 |
| 10 59 | 2.3 | +3.9 | 6+00 | 1.9 | +4.3 |
| (6.2) | 1.9 | +4.3 | | 2.0 | +4.2 |
| | 2.0 | +4.2 | | 1.9 | +4.3 |
| 50 | 2.0 | +4.2 | | 1.9 | +4.3 |
| | 2.0 | +4.2 | | 2.0 | +4.2 |
| | 1.9 | +4.3 | 50 | 2.0 | +4.2 |
| | 2.0 | +4.2 | | 1.9 | +4.3 |
| | 2.0 | | | 1.9 | +4.3 |
| 5+00 | 2.0 | | | 1.9 | +4.3 |
| | 2.0 | +4.2 | | 1.8 | +4.4 |



P.X. STA 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 1.7 | +4.5 | | 4.4 | +1.7 |
| | 1.8 | +4.4 | | 4.3 | +1.8 |
| | 1.8 | +4.4 | 9+00 | 4.5 | +1.6 |
| | 1.7 | +4.5 | | 4.8 | +1.3 |
| | 1.6 | +4.6 | | 4.9 | +1.2 |
| 50 | 1.9 | +4.3 | | 5.0 | +1.1 |
| | 2.4 | +3.8 | (6.1) | 4.9 | +1.2 |
| 11 01 | 3.0 | +3.2 | 50 | 4.7 | +1.4 |
| (6.2) | 3.3 | +2.9 | 11 03 | 4.6 | +1.5 |
| | 3.6 | +2.6 | | 4.5 | +1.6 |
| 8+00 | 3.9 | +2.3 | | 4.4 | +1.7 |
| | 4.0 | +2.2 | | 4.7 | +1.4 |
| | 4.0 | +2.2 | 10+00 | 5.0 | +1.1 |
| | 4.1 | +2.1 | | 4.6 | +1.5 |
| | 4.1 | +2.1 | | 4.5 | +1.6 |
| 50 | 4.3 | +1.9 | | 4.4 | +1.7 |
| | 4.3 | +1.9 | | 4.8 | +1.3 |
| | 4.4 | +1.8 | 50 | 4.8 | +1.3 |

Rx. STA. 97+00

| D | S | |
|---|---|---|
| | 49 | +1.2 |
| | 47 | +1.4 |
| | 47 | +1.4 |
| | 47 | +1.4 |
| 11+00 | 48 | +1.3 |
| 11 05 | 49 | +1.2 |
| (6.1) | 5.1 | +1.1 |
| | 6.0 | +0.1 |
| | 8.1 | -2.0 |
| 50 | 9.5 | -3.4 |

10-12-46 (17)

Rx STA. 97+00

0+00 = Range 100 - SOUTH EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | | | | 2.5 | +3.5 |
| | 3.1 | +2.9 | | 2.5 | +3.5 |
| | 3.1 | +2.9 | | 2.4 | +3.6 |
| | 3.2 | +2.8 | 2+00 | 2.5 | +3.5 |
| | 3.2 | +2.8 | | 2.5 | +3.5 |
| 50 | 3.3 | +2.7 | (6.0) | 2.6 | +3.4 |
| | 3.3 | | 11 14 | 3.3 | +2.7 |
| 11 13 | 3.3 | | | 4.0 | +2.0 |
| (6.9) | 3.3 | | 50 | 4.6 | +1.4 |
| | 3.3 | | | 4.9 | +1.1 |
| 1+00 | 3.2 | | | 5.0 | +1.0 |
| | 3.3 | +2.7 | | 5.0 | +1.0 |
| | 3.0 | +3.0 | | 5.0 | +1.0 |
| | 3.0 | +3.0 | 3+00 | 5.2 | +0.8 |
| | 2.9 | +3.1 | | 5.3 | +0.7 |
| 50 | 2.8 | +3.2 | | 5.2 | +0.8 |
| | 2.6 | +3.4 | | 5.2 | +0.8 |

P.X. Sta. 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 5.0 | +1.0 | | 3.1 | +2.9 |
| 50 | 5.0 | +1.0 | | 3.0 | +3.0 |
| | 5.7 | +0.3 | | 3.0 | |
| | 6.1 | -0.1 | 50 | 3.0 | |
| | 5.8 | +0.2 | | 3.0 | +3.0 |
| | 5.5 | +0.5 | (6.0) | 3.1 | +2.9 |
| 4+00 | 4.6 | +1.4 | | 3.2 | +2.8 |
| 11:15 | 3.8 | +2.2 | 11:17 | 3.2 | +2.8 |
| (6.0) | 3.3 | +2.7 | 6+00 | 3.3 | +2.7 |
| | 3.3 | +2.7 | | 3.5 | +2.5 |
| | 3.3 | +2.7 | | 3.4 | +2.6 |
| 50 | 3.4 | +2.6 | | 3.5 | +2.5 |
| | 3.4 | +2.6 | | 3.5 | +2.5 |
| | 3.4 | +2.6 | 50 | 3.6 | +2.4 |
| | 3.3 | +2.7 | | 3.5 | +2.5 |
| | 3.2 | +2.8 | | 3.6 | +2.4 |
| 5+00 | 3.0 | +3.0 | | 3.6 | |
| | 3.0 | +3.0 | | 3.6 | +2.4 |



P.X. Sta. 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 3.7 | +2.3 | | 4.0 | +2.0 |
| | 3.7 | +2.3 | | 40 | |
| | 3.6 | +2.4 | 9+00 | 40 | |
| | 3.7 | +2.3 | | 40 | |
| | 3.6 | +2.4 | | 40 | |
| 50 | 3.7 | +2.3 | | 40 | |
| | 3.7 | | | 40 | |
| 11:18 | 3.7 | | 50 | 40 | |
| (6.0) | 3.7 | +2.3 | 11:20 | 40 | |
| | 3.8 | +2.2 | (6.0) | 40 | |
| 8+00 | 3.8 | +2.2 | | 40 | |
| | 3.8 | +2.2 | | 40 | |
| | 3.9 | +2.1 | 10+00 | 40 | +2.0 |
| | 3.9 | | | 38 | +2.2 |
| | 3.9 | +2.1 | | 38 | +2.2 |
| 50 | 4.0 | +2.0 | | 35 | +2.5 |
| | 4.0 | | | 35 | +2.5 |
| | 4.0 | +2.0 | 50 | 36 | +2.4 |

P.I. STA. 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 40 | +2.0 | | 36 | +2.4 |
| | 49 | +1.1 | 50 | 36 | |
| | 52 | +0.8 | | 36 | +2.4 |
| | 55 | +0.5 | | 35 | +2.5 |
| 11+00 | 55 | +0.5 | | 36 | +2.4 |
| | 54 | +0.6 | | 35 | +2.5 |
| (6.0) | 50 | +1.0 | 13+00 | 35 | +2.5 |
| | 42 | +1.8 | | 36 | +2.4 |
| 11 22 | 40 | +2.0 | 11 23 | 35 | +2.5 |
| 50 | 40 | +2.0 | (6.0) | 35 | +2.5 |
| | 38 | +2.2 | | 36 | +2.4 |
| | 38 | | 50 | 36 | |
| | 38 | | | 36 | |
| | 38 | +2.2 | | 36 | |
| 12+00 | 37 | +2.3 | | 36 | |
| | 37 | +2.3 | | 36 | +2.4 |
| | 36 | +2.4 | 14+00 | 37 | +2.3 |
| | 36 | +2.4 | | 39 | +2.1 |



P.I. STA. 97+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 6.2 | -0.2 | 16+00 | 30 | +3.0 |
| | 10.0 | -4.0 | 10 | 28 | +3.2 |
| | 110 | -5.0 | 20 | 20 | +4.0 |
| 50 | 114 | -5.4 | 30 | 20 | +4.0 |
| | 116 | -5.6 | 40 | 00 | +6.0 |
| | 122 | -6.2 | | | |
| (6.0) | 122 | -6.2 | | | |
| 11 25 | 122 | -6.2 | | | |
| 15+00 | 120 | -6.0 | | | |
| | 123 | -6.3 | | | |
| | 120 | -6.0 | | | |
| | 112 | -5.2 | | | |
| | 103 | -4.3 | | | |
| 50 | 101 | -4.1 | | | |
| | 98 | -3.8 | | | |
| | 91 | -3.1 | | | |
| | 53 | +0.7 | | | |
| | 33 | +2.7 | | | |

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P.X. Sta 96+00

0+00 = Range 100+00 Sound West

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 23 | +3.5 | | 18 | +3.9 |
| | 25 | +3.3 | | 21 | +3.6 |
| | 22 | +3.6 | | 23 | +3.4 |
| | 18 | +4.0 | 200 | 25 | +3.2 |
| | 18 | +4.0 | | 23 | +3.4 |
| 50 | 18 | +4.0 | (5.7) | 21 | +3.6 |
| (5.8) | 15 | +4.3 | | 22 | +3.5 |
| | 15 | +4.3 | 11 41 | 20 | +3.7 |
| 11 39 | 15 | +4.3 | 50 | 20 | +3.7 |
| | 13 | +4.5 | | 21 | +3.6 |
| 100 | 15 | +4.3 | | 22 | +3.5 |
| | 15 | +4.3 | | 23 | +3.4 |
| | 18 | +4.0 | | 22 | +3.5 |
| | 18 | +4.0 | 300 | 22 | +3.5 |
| | 15 | +4.3 | | 22 | +3.5 |
| 50 | 12 | +4.6 | | 16 | +4.1 |
| 60 | — | | | 16 | +4.1 |



P.X 96+00

| D | S | | Dist | Sound | |
|---|---|---|---|---|---|
| | 16 | +4.1 | | 14 | +4.3 |
| 350 | 16 | | | 12 | +4.5 |
| | 16 | | | 14 | +4.3 |
| | 16 | | 50 | 14 | |
| | 16 | | | 14 | |
| | 16 | +4.1 | (5.7) | 14 | |
| 400 | 18 | +3.9 | | 14 | |
| | 16 | +4.1 | 1144 | 14 | |
| 11 43 | 15 | +4.2 | 600 | 14 | |
| (5.7) | 16 | +4.1 | | 14 | |
| | 15 | +4.2 | | 14 | |
| 50 | 15 | | | 14 | |
| | 15 | | | 14 | |
| | 15 | | 50 | 14 | |
| | 15 | | | 14 | |
| | 15 | | | 14 | |
| 500 | 15 | +4.2 | | 14 | +4.3 |
| | | | | 16 | +4.1 |
| | | | 90 | 14 | +4.3 |

RX 96+00

| Dist | Sound | |
|---|---|---|
| 700 | 1.4 | +4.3 |
| | 14 | \| |
| | 14 | +4.3 |
| | 20 | +3.7 |
| | 13 | +4.4 |
| 50 | 13 | +4.4 |
| (5.7) | 20 | +3.7 |
| | 15 | +4.0 |
| 1145 | 15 | +4.0 |
| | 20 | +3.7 |
| 800 | 20 | \| |
| | 20 | +3.7 |
| | 27 | +3.0 |
| | 30 | +2.7 |
| | 33 | +2.4 |
| 50 | 33 | +2.4 |
| | 34 | +2.3 |
| | 34 | +2.3 |

| Dist | Sound | |
|---|---|---|
| | 36 | +2.1 |
| | 39 | +1.8 |
| 900 | 39 | +1.8 |
| | 40 | +1.7 |
| | 41 | +1.6 |
| (5.7) | 44 | +1.3 |
| 1149 | 44 | +1.3 |
| 900 | 44 | +1.3 |
| | 42 | +1.5 |
| | 42 | +1.5 |
| | 38 | +1.9 |
| | 25 | +3.2 |
| 1000 | 32 | +2.5 |
| | 32 | } |
| | 32 | } |
| | 32 | +2.5 |
| | 34 | +2.3 |
| 1000 | 36 | +2.1 |

RX 96+00

| Dist | Sound | |
|---|---|---|
| | 40 | +1.7 |
| | 40 | +1.7 |
| | 40 | +1.7 |
| | 72 | -1.5 |
| 50 | 102 | -4.5 |
| | 135 | -7.8 |
| 1155 | | |
| (5.7) | | |

10-12-46

R.X. Sta 96+00 Sound East

0+00. = Range 100

| Dist | | Sound | | Dist | Sound | |
|---|---|---|---|---|---|---|
| 10 | 10 | 21 | +3.3 | | 27 | +2.7 |
| | | 22 | +3.2 | 250 | 25 | +2.9 |
| | | 23 | +3.1 | | 24 | +3.0 |
| | | 23 | +3.1 | | 23 | +3.1 |
| | | 25 | +2.9 | | 22 | +3.2 |
| | (5.4) | 24 | +3.0 | (5.4) | 21 | +3.3 |
| | | 28 | +2.6 | 50 | 26 | +2.8 |
| 12 | 02 | 24 | +3.0 | 12 | 03 35 | +1.9 |
| 100 | | 24 | +3.0 | | 45 | +0.9 |
| | | 25 | +2.9 | | 44 | +1.0 |
| | | 25 | +2.9 | | 45 | +0.9 |
| | | 26 | +2.8 | 300 | 50 | +0.4 |
| | | 26 | +2.8 | | 55 | -0.1 |
| | 50 | 25 | +2.9 | | 61 | -0.7 |
| | | 26 | +2.8 | | 61 | -0.7 |
| | | 25 | +2.9 | | 58 | -0.4 |
| | | 24 | +3.0 | 50 | 53 | +0.1 |



R.X. 96+00

| Dist | | Sound | | Dist | | Sound | |
|---|---|---|---|---|---|---|---|
| | | 48 | +0.6 | | 40 | 15 | +3.9 |
| | | 48 | +0.6 | | 50 | 15 | +3.9 |
| | | 42 | +1.2 | | | 18 | +3.6 |
| | | 37 | +1.7 | | | 20 | +3.4 |
| 400 | | 35 | +1.9 | | | 20 | +3.4 |
| | | 32 | +2.2 | | | 19 | +3.5 |
| | | 24 | +3.0 | 600 | | 18 | +3.6 |
| 12 | 04 | 15 | +3.9 | | | 19 | +3.5 |
| | (6.4) | 11 | +4.3 | 12 | 06 | 20 | +3.4 |
| 50 | | 12 | +4.2 | | (5.9) | 21 | +3.3 |
| | | 12 | +4.2 | | | 22 | +3.2 |
| | | 12 | +4.2 | | 50 | 23 | +3.1 |
| | | 13 | +4.1 | | | 24 | +3.0 |
| | | 14 | +4.0 | | | 26 | +2.8 |
| 500 | | 14 | +4.0 | | | 26 | +2.8 |
| | | 16 | +3.8 | | | 28 | +2.6 |
| | | 15 | +3.9 | 700 | | 29 | +2.5 |
| | | 15 | +3.9 | 10 | | 29 | +2.5 |

P.X. 96+00

| Dist. | Sound | | D | S | |
|---|---|---|---|---|---|
| 20 | 29 | +2.5 | 900 | 32 | +2.2 |
| | 29 | +2.5 | | 31 | +2.3 |
| | 30 | +2.4 | | 31 | +2.3 |
| 30 | 29 | +2.5 | | 31 | +2.3 |
| | 29 | | | 32 | +2.2 |
| (5.4) | 29 | | 50 | 32 | |
| | 29 | +2.5 | | 32 | |
| 1208 | 30 | +2.4 | 1209 | 32 | +2.2 |
| 800 | 30 | | (5.3) | 32 | +2.1 |
| | 30 | | | 32 | +2.1 |
| | 30 | | 1000 | 32 | +2.1 |
| | 30 | | | 33 | +2.0 |
| | 30 | | | 33 | +2.0 |
| 08 | 30 | +2.4 | | 32 | +2.1 |
| | 31 | +2.3 | | 32 | +2.1 |
| | 31 | +2.3 | 00 | 32 | +2.1 |
| | 32 | +2.2 | | 30 | +2.3 |
| | 32 | +2.2 | | 30 | +2.3 |

P.X. 96+00

| D. | S | | D | S | |
|---|---|---|---|---|---|
| | 29 | +2.4 | | 30 | +2.3 |
| | 28 | +2.5 | | 30 | +2.3 |
| 1100 | 29 | +2.4 | | 29 | +2.4 |
| | 29 | +2.4 | | 29 | |
| | 28 | +2.5 | 1300 | 29 | |
| | 28 | +2.5 | | 29 | |
| | 40 | +1.3 | (5.3) | 29 | |
| 50 | 48 | +0.5 | 1212 | 29 | |
| 1220 | 50 | +0.3 | | 29 | |
| (5.3) | 48 | +0.5 | 50 | 29 | |
| | 48 | +0.5 | | 29 | +2.4 |
| | 48 | +0.5 | | 30 | +2.3 |
| 1200 | 42 | +1.1 | | 30 | |
| | 42 | +1.1 | | 30 | |
| | 40 | +1.3 | 1400 | 30 | +2.3 |
| | 38 | +1.5 | | 29 | +2.4 |
| | 30 | +2.3 | | 29 | +2.4 |
| 00 | 35 | +1.8 | 30 | 29 | +2.4 |

PX. 96+00

| D. | S. | | P | S. | |
|---|---|---|---|---|---|
| 40 | 30 | +2.3 | | 2.2 | +3.1 |
| 50 | 62 | -0.9 | | 1.8 | +3.5 |
| | 94 | -4.1 | | 1.3 | +4.0 |
| | 105 | -5.2 | 50 | 1.0 | +4.3 |
| | 110 | -5.7 | 55 | 0.0 | +5.3 |
| | 112 | -5.9 | | | |
| 1500 | 109 | -5.6 | | | |
| | 107 | -5.4 | | | |
| 12[illegible] | 110 | -5.7 | | | |
| (5.3) | 110 | -5.7 | | | |
| | 116 | -6.3 | | | |
| 50 | 113 | -6.0 | | | |
| | 108 | -5.5 | | | |
| | 10.0 | -4.7 | | | |
| | 9.8 | -4.5 | | | |
| | 8.0 | -2.7 | | | |
| 1600 | 3.1 | +2.2 | | | |
| | 2.4 | +2.9 | | | |

10-12-96 (24)

PX. Sta 95+00

0+00 = Range 100

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| 0+00 | 00 | +5.2 | 70 | 2.3 | +2.9 |
| | 03 | +4.9 | | 2.2 | +3.0 |
| | 03 | +4.9 | | 2.3 | +2.9 |
| | 04 | +4.8 | 200 | 2.3 | +2.9 |
| | 09 | +4.3 | | 2.3 | +2.9 |
| 50 | 1.2 | +4.0 | (5.2) | 2.0 | +3.2 |
| | 1.3 | +3.9 | | 1.7 | +3.5 |
| 1225. | 18 | +3.4 | 1227 | 1.6 | +3.6 |
| (5.2) | 16 | +3.6 | 50 | 1.7 | +3.5 |
| | 18 | +3.4 | | 1.7 | +3.5 |
| 100 | 18 | +3.4 | | 1.5 | +3.7 |
| | 18 | +3.4 | | 1.4 | +3.8 |
| | 19 | +3.3 | | 1.3 | +3.9 |
| | 20 | +3.2 | 300 | 2.4 | +2.8 |
| | 20 | +3.2 | | 3.3 | +1.9 |
| 50 | 20 | +3.2 | | 3.6 | +1.6 |
| | 22 | +3.0 | 30 | 4.0 | +1.2 |

RX 9570C

| DIST | SOUND | | DIST | SOUND | |
|---|---|---|---|---|---|
| | 51 | +0.1 | | 10 | +4.2 |
| 50 | 58 | -0.6 | | 12 | +4.0 |
| | 60 | -0.8 | | 14 | +3.8 |
| | 53 | -0.1 | 50 | 17 | +3.5 |
| | 50 | +0.2 | | 12 | +4.0 |
| | 41 | +1.1 | (5.1) | 12 | +4.0 |
| 400 | 40 | +1.2 | | 17 | +3.5 |
| | 38 | +1.4 | 12 33 | 13 | +3.8 |
| 12 30 | 38 | +1.4 | 600 | 15 | +3.6 |
| (5.2) | 37 | +1.5 | | 14 | +3.7 |
| | 35 | +1.7 | | 16 | +3.5 |
| 50 | 30 | +2.2 | | 17 | +3.4 |
| | 25 | +2.7 | | 18 | +3.3 |
| | 18 | +3.4 | 50 | 20 | +3.1 |
| | 07 | +4.5 | | 20 | |
| | 06 | +4.6 | | 20 | |
| 500 | 08 | +4.4 | | 20 | +3.1 |
| | 15 | +3.7 | 90 | 22 | +2.9 |



RX 9570C

| DIST | SOUND | | DIST | SOUND | |
|---|---|---|---|---|---|
| 700 | 23 | +2.8 | 80 | 27 | +2.4 |
| | 25 | +2.6 | | 27 | |
| | 26 | +2.5 | 900 | 27 | |
| | 26 | | | 27 | |
| | 26 | | | 27 | +2.4 |
| 50 | 26 | +2.5 | | 26 | +2.5 |
| (5.1) | 27 | +2.4 | (5.1) | 26 | +2.5 |
| | 27 | +2.4 | 50 | 25 | +2.6 |
| 12 34 | 26 | +2.5 | 12 35 | 25 | +2.6 |
| | 26 | | | 26 | +2.5 |
| 800 | 26 | | | 26 | |
| | 26 | | | 26 | |
| | 26 | | 1000 | 26 | |
| | 26 | | | 26 | |
| | 26 | | | 26 | |
| 50 | 26 | | | 26 | +2.5 |
| | 26 | +2.5 | | 25 | +2.6 |
| | 27 | +2.4 | 50 | 25 | +2.6 |

P.X 95 to 00

| Dist | Sound | |
|---|---|---|
| | 25 | +2.6 |
| | 25 | +2.6 |
| | 25 | +2.6 |
| | 24 | +2.7 |
| 1100 | 24 | +2.7 |
| | 23 | +2.8 |
| (5.1) | 24 | +2.7 |
| | 24 | +2.7 |
| 12 36 | 24 | +2.7 |
| 50 | 25 | +2.6 |
| | 26 | +2.5 |
| | 26 | +2.5 |
| | 30 | +2.1 |
| | 38 | +1.3 |
| 1200 | 42 | +0.9 |
| | 47 | +0.4 |
| | 50 | +0.1 |
| | 50 | +0.1 |

| Dist | Sound | |
|---|---|---|
| | 43 | +0.8 |
| 50 | 40 | +1.1 |
| | 39 | +1.2 |
| | 35 | +1.6 |
| | 30 | +2.1 |
| | 27 | +2.4 |
| 1300 | 26 | +2.5 |
| | 25 | +2.6 |
| 12 37 | 25 | +2.6 |
| (5.0) | 26 | +2.4 |
| | 25 | +2.5 |
| 50 | 25 | +2.5 |
| | 24 | +2.6 |
| | 24 | +2.6 |
| | 25 | +2.5 |
| 1400 | 25 | |
| | 25 | +2.5 |



P.X. 95 to 00

| Dist | Sound | |
|---|---|---|
| | 24 | +2.6 |
| | 24 | +2.6 |
| | 24 | +2.6 |
| 50 | 25 | +2.5 |
| | 27 | +2.3 |
| | 62 | -1.2 |
| | 97 | -4.7 |
| 12 28 | 106 | -5.6 |
| 1500 | 118 | -6.8 |
| | 122 | -7.2 |
| (5.0) | 122 | -7.2 |
| | 126 | -7.6 |
| | 128 | -7.8 |
| 50 | 124 | -7.4 |
| | 125 | -7.5 |
| | 122 | -7.2 |
| | 117 | -6.7 |
| | 100 | -5.0 |

| Dist | Sound | |
|---|---|---|
| 1600 | 77 | -2.7 |
| | 29 | +2.1 |
| (5.0) | 23 | +2.7 |
| 12 39 | 23 | +2.7 |
| | 20 | +3.0 |
| 50 | 17 | +3.3 |
| 60 | 13 | +3.7 |
| 70 | 00 | +5.0 |

10-12-46

P.X. Sta 86+00 SOUND EAST.

0+00 = Range 100+00

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| 0+00 | 2.3 | +2.3 | | 29 | +1.7 |
| 10 | 23 | +2.3 | | 30 | +1.6 |
| 20 | 30 | +1.6 | | 30 | +1.6 |
| 30 | 24 | +2.2 | 200 | 31 | +1.5 |
| 40 | 22 | +2.4 | | 32 | +1.4 |
| 50 | 22 | +2.4 | 4.6 | 32 | +1.4 |
| 4.6 | 22 | +2.4 | | 30 | +1.6 |
| 103 | 20 | +2.6 | 105 | 30 | +1.6 |
| | 22 | +2.4 | 50 | 30 | +1.6 |
| | 24 | +2.2 | | 32 | +1.4 |
| 100 | 28 | +1.8 | | 40 | +0.6 |
| | 29 | +1.7 | | 38 | +0.8 |
| | 29 | | | 35 | +1.1 |
| | 29 | | 300 | 31 | +1.5 |
| | 29 | | | 31 | |
| 50 | 29 | +1.7 | | 31 | |
| | 28 | +1.8 | | 31 | +1.5 |

(27)

P.X. 86+00

| Dist | Sound | | Dist | Sound |
|---|---|---|---|---|
| | 31 | +1.5 | | |
| 50 | 30 | +1.6 | | |
| | 29 | +1.7 | | |
| | 29 | | 50 | |
| | 29 | | | |
| | 29 | | | |
| 400 | 29 | | | |
| | 29 | +1.7 | | |
| 107 | 28 | +1.8 | 600 | |
| 4.6 | 27 | +1.9 | | |
| | 20 | +2.6 | | |
| 50 | 13 | +3.3 | | |
| 60 | 0.1 | +4.5 | | |
| | | | 50 | |
| | | | | |
| | | | | |
| | | | | |
| 500 | | | | |
| | | | | |

10-12-46

P.V Sta 87+00 Sound East.

0+00 = Range 100+00

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| 0+00 | 0.3 | +4.1 | | 1.8 | +2.6 |
| | 04 | +4.0 | | 20 | +2.4 |
| | 02 | +4.2 | | 20 | |
| | 03 | +4.1 | 200 | 20 | |
| | 02 | +4.2 | | 20 | |
| 50 | 01 | +4.3 | | 20 | +2.4 |
| (4.4) | 01 | +4.3 | (4.4) | 22 | +2.2 |
| 1 17 | +02 | +4.2 | 1 19 | 24 | +2.0 |
| | +04 | +4.2 | 50 | 26 | +1.8 |
| | 00 | +4.4 | | 28 | +1.6 |
| 100 | 01 | +4.3 | | 28 | |
| | 01 | } | | 28 | |
| | 01 | +4.3 | | 28 | |
| | 02 | +4.2 | 300 | 28 | |
| | 04 | +4.0 | | 28 | |
| 50 | 1.0 | +3.4 | | 28 | |
| | 14 | +3.0 | | 28 | +1.6 |



P.V 87+00

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| | 29 | +1.5 | 5+20 | 00 | +4.4 |
| 50 | 30 | +1.4 | | | |
| | 33 | +1.1 | | | |
| | 33 | +1.1 | 50 | | |
| | 35 | +0.9 | | | |
| | 35 | +0.9 | | | |
| 400 | 33 | +1.1 | | | |
| | 30 | +1.4 | | | |
| 1 21 | 30 | +1.4 | 600 | | |
| (4A) | 30 | +1.4 | | | |
| | 35 | +0.9 | | | |
| 50 | 36 | +0.8 | | | |
| | 30 | +1.4 | | | |
| | 29 | +1.5 | 50 | | |
| | 25 | +1.9 | | | |
| | 20 | +2.4 | | | |
| 500 | 1.3 | +3.1 | | | |
| | 06 | +3.8 | 90 | | |

10-12-46

Sta 85+00 Sound East

0+00 = Range 113+00

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| 50 | 00 | 41 | | 90 | -5.0 |
| 100 | 01 | +40 | | 90 | -5.0 |
| 140 | 50 00 | +41 | | 96 | -5.6 |
| 200 | 01 | +40 | 400 | 90 | -5.0 |
| (4.1) 40 | 00 | +41 | | 90 | -5.0 |
| 50 | 1.3 | +28 | (4.0) | 90 | -5.0 |
| 60 | 30 | +10 | 157 | 88 | -4.4 |
| (4.0) 70 | 30 | +10 | | 83 | -4.3 |
| 80 | 31 | +09 | 50 | 85 | -4.5 |
| 90 | 30 | +10 | | 80 | -4.0 |
| 300 | 39 | +01 | | 79 | -3.9 |
| | 75 | -3.5 | | 63 | -2.3 |
| 150 | 90 | -5.0 | | 40 | 0.0 |
| | 93 | -5.3 | | 20 | +2.0 |
| | 88 | -4.8 | 500 | 13 | +2.7 |
| 50 | 9.0 | -5.0 | 10 | 05 | +3.5 |
| | 85 | -4.5 | | | |

P.X.

10-12-46 (29)

Sta 86+00 Sound West

0+00 = Causeway

| Dist | Sound | | Dist | Sound | |
|---|---|---|---|---|---|
| 40 | 1.0 | +3.0 | 10 | 7.0 | -3.3 |
| 50 | 2.2 | +1.8 | 20 | 6.8 | -3.1 |
| 60 | 4.5 | -0.5 | 30 | 5.7 | -2.0 |
| 70 | 7.3 | -3.3 | 40 | 01 | +3.6 |
| 80 | 95 | -5.5 | | | |
| 2+46 90 | 92 | -5.2 | | | |
| 100 | 85 | -4.5 | | | |
| 10 | 90 | -5.0 | | | |
| (3.7) 20 | 9.1 | -5.4 | | | |
| 30 | 98 | -6.1 | | | |
| 40 | 94 | -5.7 | | | |
| 50 | 88 | -4.6 | | | |
| 60 | 90 | -5.3 | | | |
| 70 | 77 | -4.0 | | | |
| 80 | 82 | -4.5 | | | |
| 90 | 80 | -4.3 | | | |
| 200 | 11.9 | -8.2 | | | |

10-13-46

P.X. STA 87+00

0+00 = CAUSEWAY - SOUND WEST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 37 | 0.0 | +3.7 | 2+00 | 8.7 | -5.0 |
| 40 | 0.3 | +3.4 | 10 | 8.4 | -4.7 |
| 50 | 0.9 | +2.8 | (37) 20 | 8.0 | -4.3 |
| 60 | 2.0 | +1.7 | 30 | 6.8 | -3.1 |
| 70 | 3.0 | +0.7 | 40 | 4.0 | -0.3 |
| (37) 80 | 6.8 | -3.1 | 73½ 50 | +0.2 | +3.5 |
| 73½ 90 | 8.2 | -4.5 | LATH | | |
| 1+00 | 9.1 | -5.4 | | | |
| 10 | 9.1 | -5.4 | | | |
| 20 | 9.0 | -5.3 | | | |
| 30 | 8.0 | -4.3 | | | |
| 40 | 7.4 | -3.7 | | | |
| 50 | 8.3 | -4.6 | | | |
| 60 | 8.8 | -5.1 | | | |
| 70 | 8.9 | -5.2 | | | |
| 80 | 8.9 | -5.2 | | | |
| 90 | 8.7 | -5.0 | | | |

10-13-46 (30)

P.X STA 78+00

0+00 = Range 100+00 SOUNDWEST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 2.1 | +2.4 | | 3.0 | |
| | 2.1 | +2.4 | | 3.0 | +1.5 |
| | 2.3 | +2.2 | | 3.1 | +1.4 |
| | 2.7 | +1.8 | 2+00 | 3.3 | +1.2 |
| (45) | 2.7 | +1.8 | (45) | 3.3 | +1.2 |
| 50 | 2.8 | +1.7 | | 3.3 | +1.2 |
| 82½ | 2.9 | +1.6 | 82½ | 3.7 | +0.8 |
| | 3.0 | +1.5 | | 4.0 | +0.5 |
| | 3.2 | +1.3 | 50 | 4.0 | +0.5 |
| | 3.2 | +1.3 | | 4.0 | +0.5 |
| 1+00 | 3.1 | +1.4 | | 4.2 | +0.3 |
| | 3.0 | +1.5 | | 4.2 | +0.3 |
| | 3.0 | +1.5 | | 4.2 | +0.3 |
| | 2.9 | +1.6 | 3+00 | 4.1 | +0.4 |
| | 3.0 | +1.5 | 10 | 4.1 | +0.4 |
| 50 | 3.0 | | 20 | | |
| | 3.0 | | 30 | | |

STA 78+00

| D | S |
|---|---|
| 40 | |
| 50 | |
| 4+00 | |

P.I. STA 78+00

0+00 = Range 100 - SOUTH EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 2.2 | +2.4 | | 2.2 | +2.4 |
| 10 | 2.1 | +2.5 | | 2.2 | +2.4 |
| | 2.1 | } | | 2.3 | +2.3 |
| | 2.1 | } | 2+00 | 2.3 | +2.3 |
| (46) | 2.1 | +2.5 | | 2.3 | +2.3 |
| 50 | 2.0 | +2.6 | (46) | 2.2 | +2.4 |
| 837 | 2.0 | } | | 2.2 | } |
| | 2.0 | } | 838 | 2.2 | } |
| | 2.0 | +2.6 | 50 | 2.2 | } |
| | 2.1 | +2.5 | | 2.2 | +2.4 |
| 1+00 | 2.2 | +2.4 | | 2.1 | +2.5 |
| | 2.2 | } | | 2.1 | } |
| | 2.2 | } | | 2.1 | } |
| | 2.2 | } | 3+00 | 2.1 | } |
| | 2.2 | +2.4 | | 2.1 | +2.5 |
| 50 | 2.3 | +2.3 | | 2.0 | +2.6 |
| | 2.3 | +2.3 | | 2.0 | +2.6 |

| P.I. | | Sta. 78+00 | | | |
|---|---|---|---|---|---|
| D | S | | D | S | |
| | 2.0 | +2.6 | | 3.7 | +0.9 |
| 50 | 2.0 | | | 3.7 | |
| | 2.0 | | | 3.7 | |
| | 2.0 | +2.6 | 50 | 3.7 | +0.9 |
| | 2.1 | +2.5 | | 3.8 | +0.8 |
| (46) | 2.1 | +2.5 | (46) | 3.9 | +0.7 |
| 4+00 | 2.1 | +2.5 | | 4.0 | +0.6 |
| | 2.2 | +2.4 | 84° | 4.0 | +0.6 |
| 84° | 2.3 | +2.3 | 6+00 | 4.1 | +0.5 |
| | 2.4 | +2.2 | | 4.1 | +0.5 |
| | 2.7 | +1.9 | | 4.0 | +0.6 |
| 50 | 3.1 | +1.5 | | 4.0 | |
| | 3.2 | +1.4 | | 4.0 | +0.6 |
| | 3.3 | +1.3 | 50 | 3.9 | +0.6 |
| | 3.4 | +1.2 | | 3.7 | +0.9 |
| | 3.4 | +1.2 | | 2.1 | +2.5 |
| 5+00 | 3.4 | +1.2 | | 2.0 | +2.6 |
| | 3.6 | +1.0 | | 2.0 | +2.6 |

| P.I. | | Sta. 78+00 | | | |
|---|---|---|---|---|---|
| D | S | | D | S | |
| 7+00 84° | 1.9 | +2.7 | | 2.0 | +2.8 |
| 84° | 1.4 | +3.4 | | 2.2 | +2.6 |
| | 1.0 | +3.8 | 9+00 | 2.3 | +2.7 |
| | 0.9 | +3.9 | | 2.4 | +2.4 |
| | 0.9 | +3.9 | | 2.2 | +2.6 |
| 50 | 0.9 | +3.9 | | 1.6 | +3.2 |
| | 0.9 | +3.9 | (48) | 1.3 | +3.5 |
| | 1.0 | +3.8 | 50 | 1.4 | +3.4 |
| (48) | 1.0 | +3.8 | 84° | 2.2 | +2.6 |
| 84° | 1.0 | +3.8 | | 2.1 | +2.7 |
| 8+00 | 1.2 | +3.6 | | 1.0 | +3.8 |
| | 1.4 | +3.4 | | 0.9 | +3.9 |
| | 1.8 | +3.0 | 10+00 | 0.9 | +3.9 |
| | 1.9 | +2.9 | | 1.1 | +3.7 |
| | 2.2 | +2.6 | | 1.9 | +2.9 |
| 50 | 2.4 | +2.4 | | 2.5 | +2.3 |
| | 2.3 | +2.5 | | 2.4 | +2.4 |
| | 2.2 | +2.6 | 50 | 2.1 | +2.7 |

P.I.X Sta. 78+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.0 | +2.8 | | 1.9 | +2.9 |
| | 2.2 | +2.6 | 50 | 2.0 | +2.8 |
| | 3.0 | +1.8 | | 2.0 | +2.8 |
| | 3.3 | +1.5 | (48) | 2.0 | +2.8 |
| 11+00 | 3.4 | +1.4 | | 2.2 | +2.6 |
| | 3.5 | +1.3 | 8[illegible] | 2.2 | } |
| (48) | 3.4 | +1.4 | 13+00 | 2.2 | +2.6 |
| | 2.7 | +2.1 | (856) | 2.2 | +2.7 |
| 8[illegible] | 1.7 | +3.1 | | 2.2 | |
| 50 | 2.3 | +2.5 | | 2.2 | |
| | 2.3 | +2.5 | (49) | 2.2 | |
| | 1.8 | +3.0 | 50 | 2.2 | |
| | 2.0 | +2.8 | | 2.2 | |
| | 1.7 | +3.1 | | 2.2 | |
| 12+00 | 1.7 | +3.1 | | 2.2 | +2.7 |
| | 1.8 | +3.0 | | 2.3 | +2.6 |
| | 1.9 | +2.9 | 14+00 | 2.3 | +2.6 |
| | 1.9 | +2.9 | | 2.3 | +2.6 |



P.I.X Sta 78+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.3 | +2.6 | 16+00 | 9.0 | -4.0 |
| | 2.3 | } | | 11.3 | -6.3 |
| | 2.3 | } | | 12.8 | -7.8 |
| 35 | 2.3 | +2.6 | | 14.0 | -9.0 |
| | 2.4 | +2.5 | (50) | 14.8 | -9.8 |
| | 2.8 | +2.1 | 50 | 15.7 | -10.7 |
| (50) | 2.9 | +2.0 | 900 | 16.8 | -11.8 |
| 858 | 3.0 | +2.0 | | 16.8 | -11.8 |
| 15+00 | 3.0 | +2.0 | | 17.9 | -12.9 |
| | 3.0 | +2.0 | | 19.0 | -14.0 |
| | 2.9 | +2.1 | 17+00 | 19.7 | -14.7 |
| | 3.1 | +1.9 | | 19.3 | -14.3 |
| | 3.8 | +1.2 | | 18.2 | -13.2 |
| 50 | 4.2 | +0.8 | | 17.4 | -12.4 |
| | 4.7 | +0.3 | | 16.3 | -11.3 |
| | 5.3 | -0.3 | 50 | 15.2 | -10.2 |
| | 6.8 | -1.8 | | 14.6 | -9.6 |
| | 8.3 | -3.3 | | 13.2 | -8.2 |

P.X

Sta. 78+00

| D | S | |
|---|---|---|
| | 12.3 | -7.3 |
| | 11.4 | -6.4 |
| 18+00 | 10.5 | -5.5 |
| | 10.0 | -5.0 |
| | 9.0 | -4.0 |
| (50) | 8.8 | -3.8 |
| | 8.2 | -3.2 |
| 50 | 7.4 | -2.4 |
| 90Z | 6.9 | -1.9 |
| | 7.0 | -2.0 |
| | 7.7 | -2.7 |
| | 8.5 | -3.5 |
| 19+60 | 13.0 | -8.0 |
| | 16.0 | -11.0 |

10-13-96

(34)

P.X

Sta. 79+00

0+00 = Range 100 - 500 RO EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 4.1 | +2.0 | | 2.9 | +3.2 |
| | 4.1 | +2.0 | | 3.0 | +3.1 |
| | 4.1 | +2.0 | | 3.0 | } |
| | 4.0 | +2.1 | 2+00 | 3.0 | } |
| (61) | 4.0 | +2.1 | | 3.0 | +3.1 |
| 50 | 3.4 | +2.7 | (61) | 3.1 | +3.0 |
| 10.9 | 3.2 | +2.9 | | 3.0 | +3.1 |
| | 3.2 | +2.9 | 10.23 | 3.0 | +3.1 |
| | 3.2 | +2.9 | 50 | 3.0 | +3.1 |
| | 3.0 | +3.1 | | 3.2 | +2.9 |
| 1+00 | 3.0 | +3.1 | | 3.2 | +2.9 |
| 10.22 | 3.2 | +2.9 | | 3.1 | +3.0 |
| | 3.8 | +2.3 | | 3.2 | +2.9 |
| | 3.4 | +2.7 | 3+00 | 3.0 | +3.1 |
| | 3.2 | +2.9 | | 3.1 | +3.0 |
| 50 | 3.2 | +2.8 | | 3.2 | +2.9 |
| | 3.0 | +3.1 | | 3.1 | +3.0 |

PX

Sta. 79+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 3.1 | +3.0 | | 3.4 | +2.7 |
| 50 | 3.1 | +3.0 | | 3.4 | +2.7 |
| | 3.2 | +2.9 | | 3.3 | +2.8 |
| | 3.2 | +2.9 | 50 | 3.3 | |
| | 3.3 | +2.8 | | 3.3 | |
| | 3.4 | +2.7 | (61) | 3.3 | |
| 4+00 | 3.5 | +2.6 | | 3.3 | |
| 10+24 | 3.5 | +2.6 | 10+25 | 3.8 | +2.8 |
| | 3.5 | +2.6 | 6+00 | 4.0 | +2.1 |
| | 3.6 | +2.5 | | 4.0 | |
| | 3.6 | | | 4.0 | |
| 50 | 3.6 | | | 4.0 | |
| | 3.6 | +2.5 | | 4.0 | +2.1 |
| | 3.4 | +2.7 | 50 | 3.7 | +2.4 |
| | 3.5 | +2.6 | | 3.3 | +2.8 |
| | 3.5 | +2.6 | | 3.2 | +2.9 |
| 5+00 | 3.5 | +2.6 | | 3.2 | +2.9 |
| | 3.4 | +2.7 | | 3.7 | +2.4 |

P.X

Sta. 79+00



| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 3.5 | +2.6 | | 3.7 | +2.4 |
| | 3.4 | +2.7 | | 3.7 | +2.4 |
| | 4.4 | +1.7 | 9+00 | 3.8 | +2.3 |
| | 4.8 | +1.3 | | 3.8 | +2.3 |
| (61) | 4.9 | +1.2 | | 3.9 | +2.2 |
| 50 | 4.8 | +1.3 | (61) | 3.9 | +2.2 |
| | 4.8 | +1.3 | | 4.0 | +2.1 |
| | 4.9 | +1.2 | 50 | 4.2 | +1.9 |
| 10+26 | 5.0 | +1.1 | 10+27 | 4.6 | +1.5 |
| | 5.1 | +1.0 | | 4.7 | +1.4 |
| 8+00 | 5.0 | +1.1 | | 4.8 | +1.3 |
| | 4.9 | +1.2 | | 4.9 | +1.2 |
| | 4.8 | +1.3 | 10+00 | 4.8 | +1.3 |
| | 4.7 | +1.4 | | 4.7 | +1.4 |
| | 4.6 | +1.5 | | 4.8 | +1.3 |
| 50 | 4.4 | +1.7 | | 4.5 | +1.6 |
| | 4.0 | +2.1 | | 4.3 | +1.8 |
| | 4.0 | +2.1 | | 4.0 | +2.1 |

PX STA. 79+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.9 | +3.2 | | 2.6 | +3.5 |
| | 2.6 | +3.5 | 50 | 2.6 | +3.5 |
| | 2.6 | +3.5 | | 2.9 | +3.2 |
| (61) | 2.7 | +3.4 | | 2.8 | +3.3 |
| 11+00 | 3.0 | +3.1 | | 2.7 | +3.4 |
| | 3.1 | +3.0 | 10 30 | 2.8 | +3.3 |
| | 3.8 | +2.3 | 13+00 | 2.7 | +3.4 |
| 10 28 | 4.4 | +1.7 | | 2.6 | +3.5 |
| | 4.9 | +1.2 | | 2.7 | +3.4 |
| 50 | 4.8 | +1.3 | | 2.9 | +3.2 |
| | 4.6 | +1.5 | | 3.0 | +3.1 |
| | 4.7 | +1.4 | 50 | 3.2 | +2.9 |
| | 3.8 | +2.3 | | 3.2 | +2.9 |
| | 3.8 | +2.3 | | 3.2 | +2.9 |
| 12+00 | 3.7 | +2.4 | | 3.1 | +3.0 |
| | 3.0 | +3.1 | | 3.1 | +3.0 |
| | 2.7 | +3.4 | 14+00 | 3.1 | +3.0 |
| | 2.7 | +3.4 | | 3.4 | +2.7 |



PX STA. 79+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 3.4 | +2.7 | 16+00 | 4.0 | +2.1 |
| | 3.4 | +2.7 | | 3.8 | +2.3 |
| | 3.3 | +2.8 | | 3.9 | +2.2 |
| 50 | 3.3 | +2.8 | | 4.1 | +2.0 |
| | 3.4 | +2.7 | | 4.9 | +1.2 |
| | 3.5 | +2.6 | 50 | 5.2 | +0.9 |
| (61) | 3.5 | +2.6 | (6.1) | 7.3 | -1.2 |
| | 3.6 | +2.5 | | 8.2 | -2.1 |
| 15+00 | 3.5 | +2.6 | 10 35 | 10.4 | -4.3 |
| 10 33 | 3.6 | +2.5 | | 11.0 | -4.9 |
| | 3.7 | +2.4 | 17+00 | 13.0 | -6.9 |
| | 3.8 | +2.3 | | 15.2 | -9.1 |
| | 3.8 | | | 17.1 | -11.0 |
| 50 | 3.8 | | | 18.3 | -12.2 |
| | 3.8 | | | 18.0 | -11.9 |
| | 3.8 | | 50 | 18.5 | -12.4 |
| | 3.8 | | | 18.2 | -12.1 |
| | 3.8 | +2.3 | | 17.8 | -11.7 |

PX

Sta. 79+00

| D | S | |
|---|---|---|
| 70 | 17.0 | -10.9 |
| 80 | 15.9 | -9.8 |
| 90 | 15.0 | -8.9 |
| 18+00 | 14.8 | -8.7 |
| | 13.0 | -6.9 |
| | 12.0 | -5.9 |
| (61) | 11.1 | -5.0 |
| 1037 | 10.5 | -4.4 |
| 50 | 10.0 | -3.9 |
| | 9.8 | -3.7 |
| | 9.2 | -3.1 |
| | 9.0 | -2.9 |
| | 8.4 | -2.3 |
| 19+00 | 8.3 | -2.2 |
| | 11.5 | -5.4 |
| | 15.4 | -9.3 |

PX

10-13-46

(37)

Sta. 83+00

0+00 = Range 100+00 SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 3.0 | +3.2 | | 4.1 | +2.1 |
| | 3.0 | | | 4.3 | +1.9 |
| | 3.0 | | | 4.2 | +2.0 |
| | 3.0 | | 2+00 | 4.2 | +2.0 |
| (62) | 3.0 | +3.2 | | 4.3 | +1.9 |
| 50 | 3.2 | +3.0 | | 4.3 | +1.9 |
| | 3.0 | +3.2 | (62) | 4.4 | +1.8 |
| 1053 | 3.1 | +3.1 | 1054 | 4.3 | +1.9 |
| | 4.0 | +2.2 | 50 | 4.3 | |
| | 3.9 | +2.3 | | 4.3 | |
| 100 | 3.7 | +2.5 | | 4.3 | |
| | 3.4 | +2.8 | | 4.3 | |
| | 3.4 | +2.8 | | 4.3 | +1.9 |
| | 3.6 | +2.6 | 3+00 | 4.4 | +1.8 |
| | 3.6 | +2.6 | | 4.7 | +1.5 |
| 50 | 4.1 | +2.1 | | 4.7 | +1.5 |
| | 4.1 | +2.1 | | 4.6 | +1.6 |

PX STA. 83+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 4.9 | +1.9 | | 3.6 | +2.7 |
| 50 | 4.3 | +2.0 | | 3.1 | +3.2 |
| | 4.9 | +1.9 | | 2.8 | +3.5 |
| | 4.9 | +1.9 | 50 | 2.4 | +3.9 |
| | 4.2 | +2.1 | | 2.4 | +3.9 |
| (63) | 4.2 | +2.1 | (63) | 3.3 | +3.0 |
| 4+00 | 4.2 | +2.1 | | 3.8 | +2.5 |
| | 4.0 | +2.3 | 10+58 | 3.7 | +2.6 |
| 10+56 | 4.0 | +2.3 | 6+00 | 3.5 | +2.8 |
| | 4.0 | +2.3 | | 2.8 | +3.5 |
| | 3.9 | +2.4 | | 2.8 | +3.5 |
| 50 | 3.8 | +2.5 | | 3.0 | +3.3 |
| | 3.8 | +2.5 | | 2.7 | +3.6 |
| | 3.8 | +2.5 | 50 | 3.0 | +3.3 |
| | 3.9 | +2.4 | | 2.6 | +3.7 |
| | 3.9 | +2.4 | | 2.8 | +3.5 |
| 5+00 | 3.9 | +2.4 | | 2.6 | +3.7 |
| | 3.9 | +2.4 | | 2.5 | +3.8 |



PX STA. 83+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 2.5 | +3.8 | | 5.0 | +1.3 |
| | 2.5 | +3.8 | | 5.2 | +1.1 |
| | 2.4 | +3.9 | 9+00 | 5.3 | +1.0 |
| | 2.4 | } | | 5.3 | +1.0 |
| | 2.4 | } | | 5.5 | +0.8 |
| 50 | 2.4 | } | (63) | 5.5 | +0.8 |
| (63) | 2.4 | +3.9 | 11+02 | 5.3 | +1.0 |
| 11+00 | 2.5 | +3.8 | 50 | 5.0 | +1.3 |
| | 2.4 | +3.9 | | 4.1 | +2.2 |
| | 2.5 | +3.8 | | 4.4 | +1.9 |
| 8+00 | 2.5 | +3.8 | | 3.9 | +2.4 |
| | 2.6 | +3.7 | | 3.4 | +2.9 |
| | 2.6 | } | 10+00 | 3.0 | +3.3 |
| | 2.6 | } | | 2.6 | +2.7 |
| | 2.6 | } | | 2.4 | +3.9 |
| 50 | 2.6 | +3.7 | | 2.3 | +4.0 |
| | 2.8 | +2.5 | | 2.4 | +3.9 |
| | 3.7 | +2.6 | 50 | 2.3 | +4.0 |

P.T. Sta. 83+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.3 | +4.0 | | 2.3 | +4.0 |
| | 2.4 | +3.9 | 50 | 2.3 | +4.0 |
| | 2.3 | +4.0 | | 2.4 | +3.9 |
| (63) | 2.3 | +4.0 | | 3.0 | +3.3 |
| 11+00 | 2.3 | +4.0 | (63) | 3.3 | +3.3 |
| | 2.5 | +3.8 | | 3.1 | +3.2 |
| | 2.4 | +3.9 | 13+00 | 2.4 | +3.9 |
| 11[illegible]3 | 2.4 | +3.9 | 11[illegible]5 | 2.5 | +3.8 |
| | 2.9 | +3.4 | | 2.7 | +3.6 |
| 50 | 2.7 | +3.6 | | 2.4 | +3.9 |
| | 2.6 | +3.7 | | 2.3 | +4.0 |
| | 2.6 | +3.7 | 50 | 2.5 | +3.8 |
| | 2.9 | +3.4 | | 2.5 | +3.8 |
| | 3.9 | +2.4 | | 2.4 | +3.9 |
| 12+00 | 3.4 | +2.9 | | 2.4 | |
| | 2.4 | +3.9 | | 2.4 | |
| | 2.3 | +4.0 | 14+00 | 2.4 | |
| | 2.3 | +4.0 | | 2.4 | +3.9 |



P.T. Sta. 83+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.4 | +3.9 | 16+00 | 3.0 | +3.3 |
| | 2.5 | +3.8 | | 3.8 | +2.5 |
| | 2.5 | +3.8 | | | |
| 50 | 2.4 | +3.9 | | | |
| | 2.5 | +3.8 | | | |
| (63) | 2.6 | +3.7 | 50 | | |
| | 2.6 | +3.7 | | | |
| 11[illegible]7 | 2.4 | +3.9 | | | |
| 15+00 | 2.5 | +3.8 | | | |
| | 2.4 | +3.9 | | | |
| | 2.3 | +4.0 | 17+00 | | |
| | 2.3 | +4.0 | | | |
| | 2.7 | +3.6 | | | |
| 50 | 2.7 | +3.6 | | | |
| | 2.4 | +3.9 | | | |
| | 2.5 | +3.8 | 50 | | |
| | 2.6 | +3.7 | | | |
| | 2.7 | +3.6 | | | |

10-13-46

P.X. Sta. 86+00

0+00 = Range 104+60 500 x 0 EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 2.2 | +4.1 | | 2.4 | +3.9 |
| | 2.2 | +4.1 | | 2.6 | +3.7 |
| | 2.3 | +4.0 | | 2.4 | +3.9 |
| | 2.3 | +4.0 | 2+00 | 2.4 | +3.9 |
| (63) | 2.0 | +4.3 | (63) | 2.8 | +3.5 |
| 50 | 2.0 | +4.3 | | 2.4 | +3.9 |
| 1124 | 2.2 | +4.1 | 1125 | 2.5 | +3.8 |
| | 2.4 | +3.9 | | 2.3 | +4.0 |
| | 3.5 | +2.8 | 50 | 2.3 | — |
| | 3.2 | +3.1 | | 2.2 | — |
| 1+00 | 2.4 | +3.9 | | 2.3 | +4.0 |
| | 2.3 | +4.0 | | 2.5 | +3.8 |
| | 2.3 | +4.0 | | 2.4 | +3.9 |
| | 2.2 | +4.1 | 3+00 | 2.3 | +4.0 |
| | 2.3 | +4.0 | | 2.3 | +4.0 |
| 50 | 2.3 | +4.0 | | 2.5 | +3.8 |
| | 2.3 | +4.0 | | 2.5 | +3.8 |



P.X. Sta. 86+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.7 | +3.6 | | 4.8 | +1.5 |
| 50 | 2.7 | +3.6 | | 4.8 | |
| | 2.6 | +3.7 | | 4.8 | |
| | 2.9 | +3.4 | 50 | 4.8 | +1.5 |
| | 3.7 | +2.6 | | 4.9 | +1.4 |
| (63) | 3.8 | +2.5 | | 5.0 | +1.3 |
| 4+00 | 4.2 | +2.1 | (63) | 5.0 | +1.3 |
| | 4.3 | +2.0 | 1128 | 4.9 | +1.4 |
| 1127 | 4.7 | +1.6 | 6+00 | 4.6 | +1.7 |
| | 4.8 | +1.5 | | 4.6 | +1.7 |
| | 5.0 | +1.3 | | 4.8 | +1.5 |
| 50 | 5.0 | +1.3 | | 5.0 | +1.3 |
| | 5.0 | | | 5.0 | +1.3 |
| | 5.0 | | 50 | 4.9 | +1.4 |
| | 5.0 | +1.3 | | 4.8 | +1.5 |
| | 5.1 | +1.2 | | 4.7 | +1.6 |
| 5+00 | 5.0 | +1.3 | | 4.7 | +1.6 |
| | 4.9 | +1.4 | | 4.7 | +1.6 |

P.I. Sta. 86+00

| D | S | |
|---|---|---|
| 7+00 | 4.8 | +1.5 |
| | 4.7 | +1.6 |
| | 4.7 | +1.6 |
| | 4.5 | +1.8 |
| (63) | 4.2 | +2.1 |
| 50 | 4.0 | +2.3 |
| 113° | 3.9 | +2.4 |
| | 3.9 | -7 |
| | 3.9 | |
| | 3.9 | +2.4 |
| 8+00 | 3.8 | +2.5 |
| | 3.8 | |
| | 3.8 | |
| | 3.8 | +2.5 |
| | 3.7 | +2.6 |
| 50 | 3.2 | +3.1 |
| | 2.9 | +3.4 |
| | 2.4 | +3.9 |

| D | S | |
|---|---|---|
| | 2.3 | +4.0 |
| | 2.6 | +3.7 |
| 9+00 | 2.4 | +3.9 |
| | 2.4 | +3.9 |
| (63) | 2.3 | +4.0 |
| | 2.3 | +4.0 |
| 113° | 2.3 | +4.0 |
| 50 | 2.4 | +3.9 |
| | 2.4 | +3.9 |
| | 2.6 | +3.7 |
| | 2.5 | +3.8 |
| | 2.3 | +4.0 |
| 10+00 | 2.3 | |
| | 2.3 | |
| | 2.3 | |
| | 2.3 | |
| 50 | 2.3 | +4.0 |



P.I. Sta. 86+00

| D | S | |
|---|---|---|
| | 2.5 | +3.8 |
| | 2.5 | |
| | 2.5 | |
| (63) | 2.5 | |
| 11+00 | 2.5 | |
| | 2.5 | +3.8 |
| | 2.7 | +3.6 |

10-13-96

P.X STA. 87+00

0+00 = RANGE 105+20

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | | | | 2.6 | +3.6 |
| | 2.0 | +4.2 | | 2.3 | +3.9 |
| | 2.0 | +4.2 | | 3.7 | +2.5 |
| | 2.0 | +4.2 | 2+00 | 3.6 | +2.6 |
| (62) | 2.2 | +4.0 | | 2.5 | +3.7 |
| 50 | 2.3 | +3.9 | (62) | 2.4 | +3.8 |
| | 2.3 | +3.9 | 1142 | 2.6 | +3.6 |
| | 2.3 | +3.9 | | 2.3 | +3.9 |
| 1141 | 2.4 | +3.8 | 50 | 2.1 | +4.1 |
| | 2.7 | +3.5 | | 2.1 | +4.1 |
| 1+00 | 2.4 | +3.8 | | 2.1 | +4.1 |
| | 2.5 | +3.7 | | 2.0 | +4.2 |
| | 2.7 | +3.5 | | 2.2 | +4.0 |
| | 2.2 | +4.0 | 3+00 | 2.0 | +4.2 |
| | 2.1 | +4.1 | | 2.0 | +4.2 |
| 50 | 2.2 | +4.0 | | 2.0 | +4.2 |
| | 2.2 | +4.0 | | 2.1 | +4.1 |



P.X. STA. 87+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.1 | +4.1 | | 3.5 | +2.7 |
| 50 | 2.1 | +4.1 | | 4.4 | +1.8 |
| | 2.1 | +4.1 | | 4.4 | +1.8 |
| | 2.3 | +3.9 | 50 | 4.6 | +1.6 |
| | 3.0 | +3.2 | | 5.0 | +1.2 |
| (62) | 2.2 | +4.0 | (62) | 5.2 | +1.0 |
| 4+00 | 2.0 | +4.2 | 1145 | 5.4 | +0.8 |
| 1140 | 2.2 | +4.0 | | 5.3 | +0.9 |
| | 3.1 | +3.1 | 6+00 | 5.2 | +1.0 |
| | 2.4 | +3.8 | | 5.1 | +1.1 |
| | 2.6 | +3.6 | | 5.0 | +1.2 |
| 50 | 2.3 | +3.9 | | 4.9 | +1.3 |
| | 2.2 | +4.0 | | 4.8 | +1.4 |
| | 2.2 | | 50 | 4.8 | +1.4 |
| | 2.2 | | | 4.7 | +1.5 |
| | 2.2 | +4.0 | | 4.8 | +1.4 |
| 5+00 | 2.4 | +3.8 | | 4.7 | +1.5 |
| | 2.4 | +3.8 | | 4.7 | +1.5 |

P.X STA. 87+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 4.7 | +1.4 | | 2.3 | +3.8 |
| | 4.6 | +1.5 | | 2.2 | +3.9 |
| | 4.7 | +1.4 | 9+00 | 2.1 | +4.0 |
| | 4.6 | +1.5 | | 2.4 | +3.7 |
| (61) | 4.6 | +1.5 | | 2.2 | +3.9 |
| 50 | 4.4 | +1.7 | (61) | 2.2 | +3.9 |
| | 4.2 | +1.9 | 1+98 | 2.2 | |
| 47 11- | 4.0 | +2.1 | 50 | 2.2 | |
| | 3.9 | +2.2 | | 2.2 | +3.9 |
| | 3.8 | +2.3 | | 2.3 | +3.8 |
| 8+00 | 3.8 | +2.3 | | 2.3 | |
| | 3.6 | +2.5 | | 2.3 | |
| | 3.7 | +2.4 | 10+00 | 2.3 | +3.8 |
| | 3.3 | +2.8 | | 2.5 | +3.6 |
| | 3.2 | +2.9 | | 2.4 | +3.7 |
| 50 | 2.9 | +3.2 | | 2.3 | +3.8 |
| | 2.5 | +3.6 | | 2.3 | +3.8 |
| | 2.4 | +3.7 | 50 | | |

10-13-46 (43)

P.X. STA. 89+00

0+00 = RANGE 100+00 SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 33 | +2.8 | 70 | 20 | +4.1 |
| | 33 | +2.8 | 80 | 19 | +4.2 |
| | 25 | +3.6 | 90 | 18 | +4.3 |
| | 20 | +4.1 | 2+00 | 19 | +4.2 |
| (61) | 20 | +4.1 | | 17 | +4.4 |
| 50 | 19 | +4.2 | (61) | 18 | +4.3 |
| | 19 | +4.2 | | 21 | +4.0 |
| 12+97 | 25 | +3.6 | 12+08 | 20 | +4.1 |
| | 25 | +3.6 | 50 | 23 | +3.8 |
| | 36 | +2.5 | | 23 | +3.8 |
| 1+00 | 39 | +2.2 | | 18 | +4.3 |
| | 26 | +3.5 | | 17 | +4.4 |
| | 25 | +3.6 | | 17 | +4.4 |
| | 25 | +3.6 | 3+00 | 17 | +4.4 |
| | 20 | +4.1 | | 18 | +4.3 |
| 50 | 18 | +4.3 | | 18 | +4.3 |
| | 18 | +4.3 | | 20 | +4.1 |

P.X. STA. 89+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 40 | 23 | +3.7 | | 4.0 | +2.0 |
| 50 | 24 | +3.6 | | 4.0 | +2.0 |
| 60 | 24 | +3.6 | | 4.2 | +1.8 |
| 70 | 33 | +2.7 | 50 | 4.5 | +1.5 |
| 80 | 41 | +1.9 | | 4.3 | +1.7 |
| (60) 90 | 4.8 | +1.2 | | 4.2 | +1.8 |
| 4+00 | 4.9 | +1.1 | (60) | 43 | +1.7 |
| 10 | 4.9 | +1.1 | 12 12 | 43 | +1.7 |
| 12 10 | 5.1 | +0.9 | 6+00 | 45 | +1.5 |
| 30 | 48 | +1.2 | | 4.2 | +1.8 |
| | 48 | +1.2 | | 43 | +1.7 |
| 50 | 4.7 | +1.3 | | 36 | +2.4 |
| | 48 | +1.2 | | 28 | +3.2 |
| | 48 | +1.2 | 50 | 24 | +3.6 |
| | 4.8 | +1.2 | | 2.3 | +3.7 |
| | 4.7 | +1.3 | | 2.3 | +3.7 |
| 5+00 | 44 | +1.6 | | 1.8 | +4.2 |
| | 42 | +1.8 | | 1.5 | +4.5 |

P.X. STA. 89+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 1.5 | +4.5 | | 1.9 | +4.0 |
| | 1.6 | +4.3 | | 2.0 | +3.9 |
| | 1.7 | +4.2 | 9+00 | 3.0 | +2.9 |
| | 1.8 | +4.1 | | 3.1 | +2.8 |
| (50) | 2.3 | +3.6 | (50) | 2.0 | +3.9 |
| 50 | 1.9 | +4.0 | | 2.0 | +3.9 |
| | 2.8 | +3.1 | 12 15 | 2.4 | +3.5 |
| 12 15 | 3.0 | +2.9 | 50 | 1.9 | +4.0 |
| | 2.8 | +3.1 | | 1.9 | +4.0 |
| | 2.8 | +3.1 | | 1.8 | +4.1 |
| 8+00 | 2.7 | +3.2 | | 1.8 | +4.1 |
| | 2.5 | +3.4 | | 1.9 | +4.0 |
| | 2.2 | +3.7 | 10+00 | 1.8 | +4.1 |
| | 2.0 | +3.9 | | 2.1 | +3.8 |
| | 2.0 | +3.9 | | 1.9 | +4.0 |
| 50 | 1.9 | +4.0 | | 2.2 | +3.7 |
| | 1.9 | +4.0 | | 2.5 | +3.4 |
| | 2.0 | +3.9 | 50 | 2.0 | +3.9 |

P.X

5+A 89+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.2 | +3.7 | | 4.3 | +1.6 |
| | 3.1 | +2.8 | 50 | 4.2 | +1.7 |
| | 3.2 | +2.7 | | 4.2 | +1.7 |
| | 3.4 | +2.5 | | 4.2 | +1.7 |
| 11+00 | 3.3 | +2.6 | | 4.4 | +1.5 |
| (57) | 3.0 | +2.9 | (59) | 4.3 | +1.6 |
| | 2.8 | +3.1 | 13+00 | 4.3 | +1.6 |
| 12 18 | 2.7 | +3.2 | 12 20 | 4.5 | +1.4 |
| | 2.6 | +3.3 | | 4.4 | +1.5 |
| 50 | 2.5 | +3.4 | | 4.9 | +1.5 |
| | 2.8 | +3.1 | | 4.4 | +1.5 |
| | 3.3 | +2.6 | 50 | 4.2 | +1.7 |
| | 3.7 | +2.2 | | 4.0 | +1.9 |
| | 4.0 | +1.9 | | 3.7 | +2.2 |
| 12+00 | 4.0 | +1.9 | | 3.7 | +2.2 |
| | 4.0 | +1.9 | | 3.3 | +2.6 |
| | 4.1 | +1.8 | 14+00 | 3.2 | +2.7 |
| | 4.1 | +1.8 | | 3.0 | +2.9 |

P.X

5+A 89+00

(45)

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 3.0 | +2.8 | 16+00 | 11.3 | -5.5 |
| | 2.6 | +3.3 | | 11.6 | -5.8 |
| | 2.2 | +3.6 | | 12.2 | -6.4 |
| 50 | 2.0 | +3.8 | | 11.6 | -5.8 |
| | 2.4 | +3.4 | (58) | 11.3 | -5.5 |
| (58) | 2.5 | +3.3 | 50 | 10.7 | -4.9 |
| 12 22 | 2.6 | +3.2 | 12 24 | 10.3 | -4.5 |
| | 2.5 | +3.3 | | 9.5 | -3.7 |
| 15+00 | 2.0 | +3.8 | | 8.4 | -2.6 |
| | 2.0 | +3.8 | | 4.7 | +1.1 |
| | 2.2 | +3.6 | 17+00 | 3.8 | +2.0 |
| | 4.1 | +1.7 | | 2.6 | +3.2 |
| | 8.3 | -2.5 | | 2.0 | +3.8 |
| 50 | 11.2 | -5.4 | | 2.0 | +3.8 |
| | 11.7 | -5.9 | | 2.0 | +3.8 |
| | 12.5 | -6.7 | 50 | 1.3 | +4.5 |
| | 12.4 | -6.6 | 53 | 0.0 | +5.8 |
| | 11.2 | -5.4 | | | |

10-13-46

P.X. Sta. 90+00

0+00 = Range 100+00 - SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 13 | +4.2 | | 1.3 | +4.2 |
| | 14 | +4.1 | | 1.4 | +4.1 |
| | 14 | | | 1.3 | +4.2 |
| (55) | 1.4 | | 2+00 | 1.4 | +4.1 |
| | 1.4 | | | 1.4 | +3.6 |
| 50 | 1.4 | | (55) | 1.4 | +4.1 |
| 12[46] | 1.4 | +4.1 | | 1.4 | +4.1 |
| | 1.5 | +4.0 | 12[47] | 1.5 | +4.0 |
| | 1.5 | +4.0 | 50 | 1.5 | +4.0 |
| | 2.3 | +2.2 | | 1.5 | +4.0 |
| 1+00 | 2.5 | +3.0 | | 1.7 | +3.8 |
| | 2.6 | +2.9 | | 2.4 | +3.1 |
| | 2.5 | +3.0 | | 1.8 | +3.7 |
| | 2.5 | +3.0 | 3+00 | 2.2 | +3.3 |
| | 2.6 | +2.9 | | 2.5 | +3.0 |
| 50 | 1.5 | +4.0 | | 2.6 | +2.9 |
| | 1.4 | +4.1 | | 2.4 | +3.1 |



P.X. Sta. 90+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 1.5 | +4.0 | | 4.0 | +1.5 |
| 50 | 1.5 | +4.0 | | 4.1 | +1.4 |
| | 1.5 | +4.0 | | 4.2 | +1.3 |
| | 1.7 | +3.8 | 50 | 4.0 | +1.5 |
| | 3.3 | +2.2 | | 3.3 | +2.2 |
| (55) | 4.0 | +1.5 | (55) | 2.4 | +3.1 |
| 4+00 | 4.0 | | 51 | 1.3 | +4.2 |
| 12[49] | 4.0 | | 12 | 1.0 | +4.5 |
| | 4.0 | | 6+00 | 1.0 | +4.5 |
| | 4.0 | | | 1.1 | +4.4 |
| | 4.0 | | | 1.4 | +4.1 |
| 50 | 4.0 | | | 1.1 | +4.4 |
| | 4.0 | +1.5 | | 1.0 | +4.5 |
| | 4.1 | +1.4 | 50 | 1.0 | +4.5 |
| | 4.2 | +1.3 | | 1.6 | +3.9 |
| | 4.3 | +1.2 | | 1.4 | +4.1 |
| 5+00 | 4.1 | +1.4 | | 1.6 | +3.9 |
| | 4.0 | +1.5 | | 1.7 | +3.8 |

P.T. Sta. 90+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 1.6 | +3.8 | | 2.0 | +3.4 |
| | 1.6 | +3.8 | | 1.8 | +3.6 |
| | 1.8 | +3.6 | 9+00 | 1.3 | +4.1 |
| | 2.2 | +3.2 | | 1.5 | +3.9 |
| (54) | 4.0 | +1.4 | | 1.8 | +3.6 |
| 50 | 4.0 | +1.4 | (54) | 2.6 | +2.8 |
| | 3.9 | +1.5 | 12[55] | 2.6 | +2.8 |
| | 3.9 | +1.5 | 50 | 1.8 | +3.8 |
| 12[53] | 3.9 | +1.5 | | 1.7 | +3.7 |
| | 3.6 | +1.8 | | 1.9 | +3.5 |
| 8+00 | 3.7 | +1.7 | | 2.0 | +3.4 |
| | 3.4 | +2.0 | | 1.5 | +3.9 |
| | 3.3 | +2.1 | 10+00 | 1.6 | +3.8 |
| | 3.3 | +2.1 | | 2.2 | +3.2 |
| | 3.3 | +2.1 | | 2.1 | +3.3 |
| 50 | 3.2 | +2.2 | | 1.7 | +3.7 |
| | 3.2 | +2.2 | | 1.5 | +3.9 |
| | 2.0 | +3.4 | 50 | 1.5 | +3.9 |



P.T. Sta. 90+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 1.7 | +3.6 | | 3.3 | +2.0 |
| | 1.9 | +3.4 | 50 | 3.3 | +2.0 |
| | 2.4 | +2.9 | | 3.6 | +1.7 |
| | 2.8 | +2.5 | | 3.4 | +1.9 |
| 11+00 | 2.8 | +2.5 | | 3.8 | +1.5 |
| (53) | 2.7 | +2.6 | (53) | 3.8 | +1.5 |
| | 2.7 | +2.6 | 13+00 | 3.9 | +1.4 |
| 12[58] | 2.3 | +3.0 | 12[59] | 3.8 | +1.5 |
| | 2.2 | +3.1 | | 3.8 | +1.5 |
| 50 | 2.1 | +3.2 | | 4.0 | +1.3 |
| | 2.0 | +3.3 | | 4.0 | +1.3 |
| | 2.0 | } | 50 | 4.0 | +1.3 |
| | 2.0 | } | | 3.9 | +1.4 |
| | 2.0 | +3.3 | | 3.6 | +1.7 |
| 12+00 | 2.1 | +3.2 | | 3.3 | +2.0 |
| | 2.3 | +3.0 | | 3.2 | +2.1 |
| | 3.0 | +2.3 | 14+00 | 3.0 | +2.3 |
| | 3.3 | +2.0 | | 2.8 | +2.5 |

P.X. Sta. 90+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 2.7 | +2.6 | 16+00 | 11.3 | -6.0 |
| | 2.7 | +2.6 | | 11.2 | -5.9 |
| | 2.7 | +2.6 | | 11.1 | -5.8 |
| 50 | 2.6 | +2.6 | | 10.2 | -4.9 |
| | 2.5 | +2.8 | | 9.1 | -3.8 |
| (5.3) | 2.3 | +3.0 | 50 | 8.7 | -3.4 |
| | 2.3 | } | (53) | 8.0 | -2.7 |
| 10' = | 2.3 | } | 103' | 3.8 | +1.5 |
| 15+00 | 2.3 | +3.0 | | 2.9 | +2.4 |
| | 4.0 | +1.3 | | 2.4 | +2.9 |
| | 8.1 | -2.8 | 17+00 | 2.3 | +3.0 |
| | 10.5 | -5.2 | 10 | 2.2 | +3.1 |
| | 11.8 | -6.5 | 20 | 2.0 | +3.3 |
| 50 | 12.4 | -7.1 | 30 | 1.7 | +3.6 |
| | 12.4 | -7.1 | 40 | 0.8 | +4.5 |
| | 11.6 | -6.3 | 45 | 0.0 | +5.3 |
| | 11.2 | -5.9 | | | |
| | 11.3 | -6.0 | | | |

10-13-46 (48)

P.X. Sta. 77+00

RANGE 0+00 ~ 106+00 ~ SOUND EAST

| D | S | | D | S | |
|---|---|---|---|---|---|
| 0+00 | 1.9 | +3.1 | | 0.3 | +4.7 |
| | 1.8 | +3.2 | | 0.2 | +4.8 |
| | 1.9 | +3.1 | | 1.2 | +3.2 |
| | 1.9 | +3.1 | 2+00 | 1.6 | +3.4 |
| (50) | 1.9 | +3.1 | 5.0 | 1.4 | +3.6 |
| 50 | 1.9 | +3.1 | | 1.3 | +3.7 |
| 130' | 2.2 | +2.8 | | 0.5 | +4.5 |
| | 2.1 | +2.9 | 139' | 0.5 | +4.5 |
| | 2.0 | +3.0 | 50 | 0.6 | +4.4 |
| | 1.8 | +3.2 | | 0.7 | +4.3 |
| 1+00 | 1.7 | +3.3 | | 0.7 | +4.3 |
| | 1.4 | +3.6 | | 0.8 | +4.2 |
| | 1.7 | +3.3 | | 0.9 | +4.1 |
| | 1.8 | +3.2 | 3+00 | 1.1 | +3.9 |
| | 1.2 | +3.8 | | 1.0 | +4.0 |
| 50 | 0.5 | +4.5 | | 1.0 | +4.0 |
| | 0.3 | +4.7 | | 1.1 | +3.9 |

P.X. Sta. 77+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| | 1.3 | +3.6 | | 1.8 | +3.1 |
| 50 | 1.7 | +3.2 | | 1.8 | +3.1 |
| | 2.0 | +2.9 | | 1.8 | +3.1 |
| | 2.0 | +2.9 | 50 | 2.0 | +2.9 |
| | 1.9 | +3.0 | | 2.6 | +2.3 |
| (49) | 1.6 | +3.3 | (49) | 2.8 | +2.1 |
| 4+00 | 1.5 | +3.4 | | 3.0 | +1.9 |
| | 1.3 | +3.6 | 139 | 3.0 | +1.9 |
| 137 | 1.2 | +3.7 | 6+00 | 2.9 | +2.0 |
| | 1.2 | +3.7 | | 3.0 | +1.9 |
| | 1.6 | +3.3 | | 3.1 | +1.8 |
| 50 | 1.6 | +3.3 | | 3.2 | +1.7 |
| | 1.5 | +3.4 | | 3.8 | +1.1 |
| | 1.4 | +3.5 | 50 | 3.8 | +1.1 |
| | 1.5 | +3.4 | | 4.0 | +0.9 |
| | 1.7 | +3.2 | | 3.7 | +1.2 |
| 5+00 | 1.8 | +3.1 | | 3.8 | +1.1 |
| | 1.8 | +3.1 | | 3.7 | +1.2 |



P.X. Sta. 77+00

| D | S | | D | S | |
|---|---|---|---|---|---|
| 7+00 | 3.6 | +1.2 | | 6.8 | -2.0 |
| | 3.6 | +1.2 | | 7.7 | -2.9 |
| | 3.5 | +1.3 | 9+00 | 8.4 | -3.6 |
| | 3.4 | +1.4 | | 9.8 | -5.0 |
| (48) | 3.4 | +1.4 | | 10.6 | -5.8 |
| 50 | 3.5 | +1.3 | (48) | 10.8 | -6.0 |
| | 3.4 | +1.4 | | 11.3 | -6.5 |
| 141 | 3.0 | +1.8 | 144 50 | 12.2 | -7.4 |
| | 3.2 | +1.6 | | 13.0 | -8.2 |
| | 3.2 | +1.6 | | 13.1 | -8.3 |
| 8+00 | 3.3 | +1.5 | | 14.2 | -9.4 |
| | 3.3 | +1.5 | | 14.4 | -9.6 |
| | 3.3 | +1.5 | 10+00 | 14.4 | -9.6 |
| | 3.4 | +1.4 | | 15.0 | -10.2 |
| | 3.8 | +1.0 | | 16.1 | -11.3 |
| 50 | 4.3 | +0.5 | | 16.3 | -11.5 |
| | 5.0 | -0.2 | | 16.2 | -11.4 |
| | 5.9 | -1.1 | 50 | 16.1 | -11.3 |

PX

STA. 77+00

| D. | S | | D. | S | |
|---|---|---|---|---|---|
| | 16.3 | -11.6 | | 6.7 | -2.0 |
| | 15.1 | -10.4 | 50 | 6.8 | -2.1 |
| (47) | 14.2 | -9.5 | | 6.5 | -1.8 |
| | 13.8 | -9.1 | 50 | 6.4 | -1.7 |
| 11+00 | 13.4 | -8.7 | | 6.2 | -1.5 |
| | 13.0 | -8.3 | (47) | 6.8 | -2.1 |
| 47 | 12.2 | -7.5 | 13+00 | 6.9 | -2.2 |
| | 11.7 | -7.0 | | 7.3 | -2.6 |
| | 11.0 | -6.3 | | 7.2 | -2.5 |
| 50 | 10.1 | -5.4 | | 8.6 | -3.9 |
| | 9.6 | -4.9 | | 10.4 | -5.7 |
| | 9.1 | -4.4 | 50 | 16.3 | -11.6 |
| | 8.8 | -4.1 | | | |
| | 8.2 | -3.5 | | | |
| 12+00 | 7.7 | -3.0 | | | |
| | 7.6 | -2.9 | | | |
| | 7.1 | -2.4 | | | |
| | 7.0 | -2.3 | | | |

4-17-47

(50)

CHECK SOUNDINGS ON PROJECT

NO 6. FOR SHOAL REMOVAL

STA 99+00

0+00 = W. SHORE B/L. SOUND EAST

| DIST | SOUND ℄ | DIST | SOUND N | SOUND S |
|---|---|---|---|---|
| 10+00 | 12.2 | | 12.5 | 12.5 |
| (3.1) +10 | 12.2 | | 12.2 | 12.2 |
| +20 | 12.0 | | 12.1 | 12.2 |
| +30 | 12.0 | | 12.1 | 12.0 |
| +40 | 11.9 | | 11.8 | 11.0 |
| +50 | 11.0 | | 11.5 | 10.9 |
| +60 | 11.5 | | 12.0 | 12.2 |
| +70 | 12.8 | | 13.0 | 13.0 |
| +80 | 17.0 | | 16.0 | |
| +90 | 18.5 | | | |
| 11+00 | 19.5 | | | |

4-17-47 PROSNO 6.

STA 105+00

0+00 = W. SHORE B/L. SOUND EAST

| DIST | SOUND | DIST | SOUND |
|---|---|---|---|
| 1+30 | 0.0 | +10 | 4.0 |
| (2.8) 40 | 0.5 | | 4.5 |
| +50 | 3.0 | | 4.3 |
| | 3.0 | | 4.0 |
| | 3.5 | +50 | 3.8 |
| | 1.6 | | 3.5 |
| | 1.6 | (2.8) | 4.3 |
| 2+00 | 1.5 | | 4.1 |
| | 2.5 | | 3.8 |
| | 2.5 | 4+00 | 3.5 |
| | 2.0 | | 3.7 |
| | 2.8 | | 4.6 |
| +50 | 2.6 | | 4.8 |
| | 2.8 | | 5.0 |
| | 3.8 | +50 | 5.0 |
| | 4.4 | | 4.5 |
| | 4.5 | | 4.5 |
| 3+00 | 4.3 | +80 | 6.0 |

105+00 4-17-47 (51)

| DIST | SOUND | DIST | SOUND | |
|---|---|---|---|---|
| | 5.8 | | | |
| 5+00 | 5.5 | +90 | 7.6 | |
| | 5.3 | 7+00 | 8.0 | |
| | 5.3 | | 8.2 | |
| | 6.0 | | 8.4 | |
| | 6.4 | | 8.0 | |
| +50 | 6.0 | | 8.7 | |
| | 6.0 | +50 | 9.8 | |
| | 6.0 | | 9.6 | 6.9 |
| (2.7) | 7.0 | (2.7) | 9.4 | 6.7 |
| | 7.0 | | 9.4 | 6.7 |
| 6+00 | 7.0 | | 8.5 | 5.8 |
| | 7.0 | 8+00 | 8.3 | 5.6 |
| | 7.0 | | 8.8 | 6.1 |
| | 7.0 | | 8.8 | 6.1 |
| | 7.8 | | 8.4 | 5.7 |
| +50 | 8.1 | | 8.4 | 5.7 |
| | 8.0 | 50 | 8.3 | 5.6 |
| | 7.8 | | 8.8 | 6.1 |
| +80 | 7.5 | +70 | 9.8 | 7.1 |

105+00 4-17-47



| DIST | SOUND | | DIST | SOUND |
|---|---|---|---|---|
| | 10.0 | 7.3 | | |
| | 10.2 | | | |
| 9+00 | 10.2 | | | |
| | 10.2 | | | |
| | 10.0 | | | |
| 2.7 | 9.5 | | | |
| | 9.0 | | | |
| +50 | 8.4 | | | |
| | 8.0 | | | |
| | 7.6 | | | |
| | 7.0 | | | |
| | 6.5 | | | |
| 10 +00 | 5.1 | | | |
| +10 | 1.0 | | | |
| +15 | 0.0 | | | |

# Elevations at Buildings on Santa Clara Point.

5/26/47 (53)

| BM 3 0700 | + | H.I. | − | |
|---|---|---|---|---|
| Launching Ramp | 3.40 | 17.08 | | 13.68 |
| #1 | | | 3.5 | 13.58 |
| #2 | | | 3.4 | 13.4 |
| #3 | | | 4.8 | 12.28 |
| #4 | | | 5.6 | 11.48 |
| #5 | | | 6.7 | 10.38 |
| #6 | | | 7.4 | 9.68 |
| #7 | | | 6.7 | 10.38 |
| #8 | | | 5.0 | 12.08 |
| #9 | | | 5.6 | 11.48 |
| #10 | | | 6.3 | 10.78 |
| #11 | | | 8.0 | 9.08 |
| #12 | | | 7.6 | 9.48 |
| #13 | | | 4.6 | 12.48. |
| #14 | | | 4.2 | 12.88 |
| #15 | | | 3.6 | 13.48 |
| #16 | | | 3.3 | 13.78 |

| BM 0700 | + | HI | − | ELEV |
|---|---|---|---|---|
| Launching Ramp | 3.18 | 16.86 | | 13.68 |
| #17 | | | 4.9 | 11.96 |
| #18 | | | 6.6 | 10.26 |
| #19 | | | 4.8 | 12.06 |
| #20 | | | 6.8 | 10.06 |
| #21 | | | 5.0 | 11.86 |
| #22 | | | 7.3 | 9.58 |
| #23 | | | 4.8 | 12.06 |
| #24 | | | 5.1 | 11.76 |
| #25 | | | 5.2 | 11.66 |
| #26 | | | 5.6 | 11.26 |
| #27 | | | 5.7 | 11.16 |

PX X-SECTIONS PROJECT #8 7-16-47 BARRAGAN SHERRY STANLEY

STA - 80+00

0+00 = STA-80+00 CAUSEWAY B/4; SECTIONS ARE AT 81° 40' TO B/L.

| DIST | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| B.M. | 7.98 | 18.93 | | 10.95 | T.P. HUB STA-82+00 |
| 0+00 | | | 15.4 | 3.5 | |
| W 0+06 | | | 13.4 | 5.5 | |
| W 0+14 | | | 10.5 | 8.4 | |
| W 28 | | | 8.7 | 10.2 | |
| W 40 | | | 7.1 | 11.8 | |
| W 95 | | | 7.5 | 11.4 | |
| W 100 | | | 6.2 | 12.7 | |
| W 130 | | | 5.3 | 13.6 | |
| W 163 | | | 5.7 | 13.2 | |
| W 195 | | | 5.7 | 13.2 | |
| W 240 | | | 6.0 | 12.9 | |
| W 285 | | | 6.0 | 12.9 | |
| W 320 | | | 6.5 | 12.4 | |
| W 365 | | | 6.3 | 12.6 | |
| W 395 | | | 6.7 | 12.2 | |
| W 435 | | | 7.3 | 11.6 | |
| W 440 | | | 6.0 | 12.9 | |
| W 445 | | | 4.9 | 14.0 | |

PX 7-16-47 (54)

STA - 80+00

| | | | |
|---|---|---|---|
| W 450 | | 9.5 | 9.4 |
| W 465 | | 11.8 15.8 | 3.1 |
| W | | | |

DX

7-16-47

## STA- 87 + 00

0+00 = STA- 87+00 CAUSEWAY B/L: SECTIONS AT 81°40' TO B/L.

| DIST | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| B.M. | 4.79 | 16.13 | | 11.34 | STA-86+00 CAUSEWAY |
| 0+00 | | | 4.7 | 11.4 | |
| W 0+15 | | | 5.2 | 10.9 | |
| W 0+18 | | | 6.1 | 10.0 | |
| W 100 | | | 6.0 | 10.1 | |
| W 180 | | | 6.5 | 9.6 | |
| W 235 | | | 6.7 | 9.4 | |
| W 310 | | | 4.6 | 11.5 | |
| W 390 | | | 4.1 | 12.0 | |
| W 475 | | | 6.4 | 11.7 | |
| W 570 | | | 5.3 | 10.8 | |
| W 660 | | | 6.0 | 10.1 | |
| W 790 | | | 6.6 | 9.5 | |
| W 905 | | | 6.5 | 9.6 | |
| W 1000 | | | 6.3 | 9.8 | |
| W 1070 | | | 6.7 | 9.4 | |
| W 1115 | | | 7.9 | 8.2 | |
| W | | | | | |

DX

7-16-47

(55)

## STA- 88 + 00

0+00 = STA-88+00 CAUSEWAY B/L: SECTIONS AT 81°40' TO B/L.

| DIST | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| B.M. | 4.90 | 16.00 / 16.05 | | 11.15 | TOP HUB STA-89+00 |
| W 1115 | | | 7.5 | 8.5 | |
| W 1030 | | | 7.6 | 8.4 | |
| W 960 | | | 7.6 | 8.4 | |
| W 720 | | | 7.6 | 8.4 | |
| W 645 | | | 7.3 | 8.7 | |
| W 570 | | | 7.1 | 8.9 | |
| W 500 | | | 6.9 | 9.1 | |
| W 445 | | | 6.6 | 9.4 | |
| W 390 | | | 6.3 | 9.7 | |
| W 340 | | | 6.2 | 9.8 | |
| W 265 | | | 7.0 | 9.0 | |
| W 215 | | | 7.1 | 8.9 | |
| W 160 | | | 7.2 | 8.8 | |
| W 110 | | | 6.7 | 9.3 | |
| W 80 | | | 6.7 | 9.3 | |
| W 22 | | | 6.8 | 9.2 | |
| W 0+13 | | | 5.2 | 10.8 | |
| | | | 4.8 | 11.2 | |

PX

7-16-47

STA- 82+00

0+00 = STA-82+00 ON A RANGE LINE 1200' W. OF STA-83+00 CAUSEWAY B/L

| DIST | + | H.I. 15.00 | − | ELEV | |
|---|---|---|---|---|---|
| B.M | 2.95 | 14.95 | | 12.00 | 12' MARK ON RADIUS PT " " |
| 0+00 | | | 5.1 | 9.9 | |
| E-0+65 | | | 3.5 | 11.5 | |
| E-156 | | | 1.3 | 13.7 | |
| E-265 | | | 2.8 | 12.2 | |
| E-280 | | | 8.0 | 7.0 | |
| E-320 | | | 11.9 | 3.1 | |
| W-55 | | | 5.8 | 9.2 | |
| W-162 | | | 7.4 | 7.6 | |
| W-305 | | | 7.0 | 8.0 | |
| W-415 | | | 3.3 | 11.7 | |
| W-485 | | | 4.4 | 10.6 | |
| W-490 | | | 6.5 | 8.5 | |
| W-500 | | | 11.6 | 3.4 | |

PX

7-16-47

(56)

STA- 81+00

0+00 = STA-81+00 ON A RANGE LINE 1200' WEST OF STA-83+00 CAUSEWAY

| DIST | + | H.I. | − | ELEV | |
|---|---|---|---|---|---|
| B.M | 3.80 | 15.80 | | 12.00 | 12' MARK RADIUS |
| W-485 | | | 10.0 | 5.8 | |
| W-465 | | | 9.9 | 5.9 | |
| W-455 | | | 5.6 | 10.2 | |
| W-430 | | | 5.1 | 10.7 | |
| W-385 | | | 6.0 | 9.8 | |
| W-350 | | | 6.5 | 9.3 | |
| W-305 | | | 7.8 | 8.0 | |
| W-252 | | | 8.0 | 7.8 | |
| W-185 | | | 7.5 | 8.3 | |
| W-100 | | | 6.5 | 9.3 | |
| 0+00 | | | 5.1 | 10.7 | |
| E-35 | | | 4.5 | 11.3 | |
| E-90 | | | 3.5 | 12.3 | |
| E 130 | | | 2.3 | 13.5 | |
| E 180 | | | 2.4 | 13.4 | |
| E-220 | | | 2.9 | 12.9 | |
| E 255 | | | 3.6 | 12.2 | |

PX STA- 81+00 7-16-47

| DIST | + | H.I. | - | ELEV |
|---|---|---|---|---|
| E 268 | | 15.80 | 1.9 | 13.9 |
| E 272 | | | 2.0 | 13.8 |
| E 280 | | | 6.0 | 9.8 |
| E 285 | | | 9.1 | 6.7 |
| E 320 160 | | | 11.4 | 4.4 |

# TRIANGULATION OF STA "BONDEX"

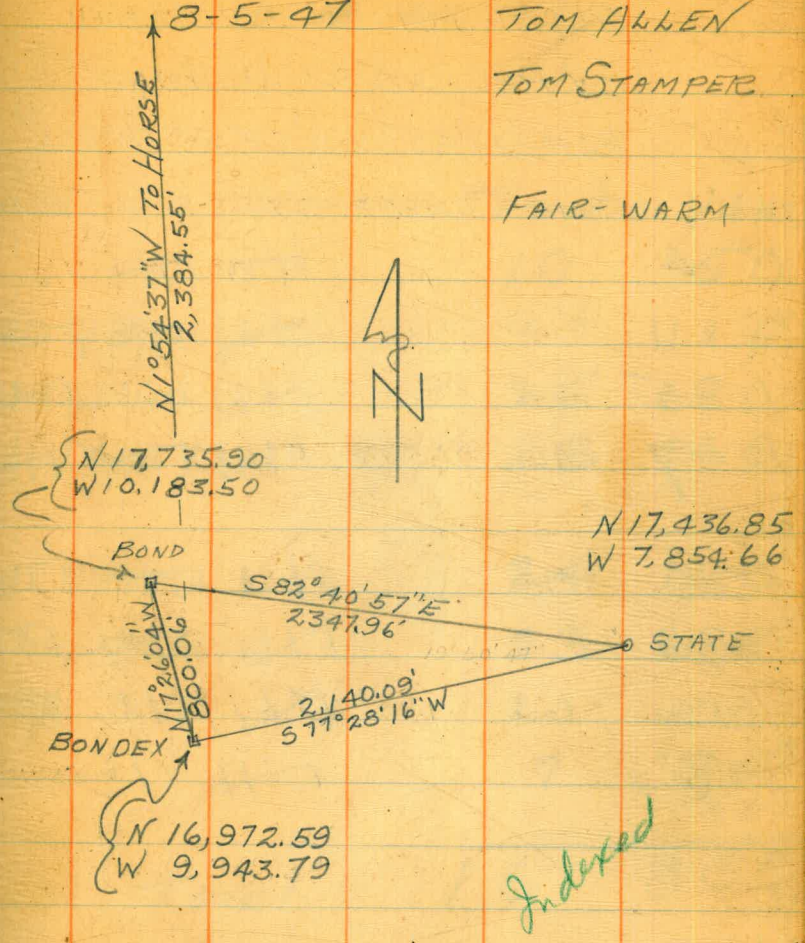
8-5-47

TOM ALLEN

TOM STAMPER

FAIR - WARM

| STA | OBJECT | SIX ANGLES | MEAN | VERNIER |
|---|---|---|---|---|
| | BOND ① 94° 54' 15" | | | |
| BONDEX | R ② 189° 48' 45" | | 94° 54' 25" | 0° 00' 00" |
| | State ⑥ 569° 26' 30" | | | |
| | State ① 65° 15' 00" | | | |
| BOND | R ② 130° 30' 00" | | 65° 15' 00" | 0° 00' 00" |
| | Bondex ⑥ 391° 30' 00 | | | |
| | Bondex ① 19° 51' 00" | | | |
| STATE | R ② 39° 41' 30" | | 19° 50' 52" | 0° 00' 00" |
| | Bond ⑥ 119° 05' 15" | | | |




Indexed

28
2
140
5
700

# RECORD OF TOPSOIL PLACED ON PROJ. NO. 3.1. AS ROAD FOR EXTENSION OF 12" DRAIN

10-30-48

| TRUCK NO | TIME IN | TIME OUT | 5 YD | 9 YD | NO. OF LOADS | DAYS TOTAL | REMARKS | Trucks | Yds. |
|---|---|---|---|---|---|---|---|---|---|
| 4 | | | ||||| | 10 | 50 |
| 11 | | | ||||| | 23 | 115 |
| 5 | | | ||||| | 26 | 130 |
| 7 | | | ||||| | 28 | 140 |
| 22 | | | ||||| | 24 | 120 |
| 39 | | | ||||| | 23 | 115 |
| 10 | | | ||||| | 20 | 100 |
| 6 | | | ||||| | 7 | 35 |
| | | | | | | | Total | 161 | 805 |

250
215
430

2200

11-1-48

Pro # 3-1

Dirt for Road. 12" Drain Extension.

Truck #

| | | | |
|---|---|---|---|
| 6 | 𝍸 | 𝍸 𝍸 \|\|\|\| | 14 |
| 10 | 𝍸 | 𝍸 𝍸 \|\|\| | 14 |
| 39 | 𝍸 | 𝍸 \|\|\| | 13 |
| 41 | 𝍸 | 𝍸 𝍸 \|\|\| | 14 |
| 7 | 𝍸 | 𝍸 𝍸 \|\|\| | 14 |
| 4 | 𝍸 \|\|\| | | 7 |
| 1 | 𝍸 𝍸 \|\|\|\| | | 14 |
| | | | 90 |



805
750
1555

| | | | Yds |
|---|---|---|---|
| 𝍸 | 𝍸 | 7-8-9-10-24 | |
| 𝍸 | \|\|\|\| | 7 8 9- 24 | 120 |
| 𝍸 | \|\|\|\| | 7 8-9 22 | 110 |
| 𝍸 | 𝍸 | 8-9-10-11 25 | 125 |
| 𝍸 | 𝍸 | 7-8-9-10-24 | 120 |
| | \| | 8 | 46 |
| 𝍸 | \|\|\|\| | 7 8-9.-23 | 115 |
| | | | 630 |

150
5
750 yds.

46

Nov. 9 - 48

| Truck | | | | |
|---|---|---|---|---|
| # 4 | 𝍸 | 11 | 7 | 35 |
| # 7 | 𝍸 | 11 | 7 | 35 |
| # 5 | 𝍸 | 11 | 8 | 40 |
| # 6 | 𝍸 | 11 | 8 | 40 |
| # 1 | 𝍸 | 11 | 7 | 35 |
| # 10 | 𝍸 | 11 | 6 | 30 |
| | | | | 215 |

(61)

Nov. 15 - 48

| Truck | | | | Loads | Yds |
|---|---|---|---|---|---|
| # 4 | 𝍸 | 𝍸 | 111 | 13 | 65 |
| " 10 | 𝍸 | 𝍸 | 111 | 13 | 65 |
| " 5 | 𝍸 | 𝍸 | 11 | 12 | 60 |
| " 6 | 𝍸 | 𝍸 | 1111 | 14 | 70 |
| # 7 | 𝍸 | 𝍸 | 1111 | 14 | 70 |
| # 22 | 𝍸 | 𝍸 | 1 | 11 | 55 |
| # 39 | 𝍸 | 1111 | | 9 | 45 |
| | | | | 86 | 430 |

Cat. - 7:30 AM

Unit 1:30 PM

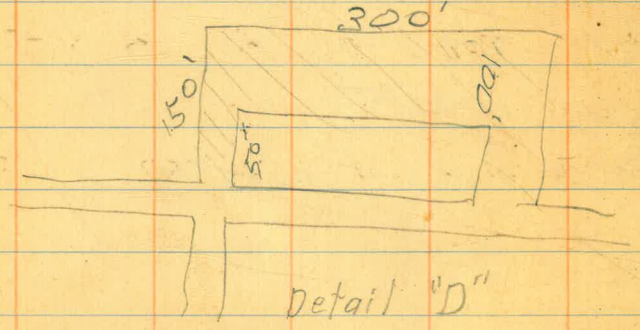
Shovel 7:30 - 1:00 PM

MONDAY 9, MAY 1949

## RECORD OF DIRT HAULED BY RE HAZARD CO

| TRK NO | YDS | No of LOADS at "B" | TOTAL YDS |
|---|---|---|---|
| 92 | 5½ | IIII | 38.5 |
| 98 | 5½ | IIII IIII IIII III | 126.5 |
| D95 | 5½ | IIII IIII IIII III | 126.5 |
| D ~~90~~ 30 | 9 | IIII IIII IIII IIII | 171.0 |
| D18 | 9 | IIII IIII IIII III | 162.0 |
| D91 | 5½ | II | 11.0 |
| 101 | 5½ | IIII IIII | 55.0 |

TOTAL FOR DAY 690.5



Detail "D"

TUESDAY 10, May 1949 (62)

## RECORD OF DIRT HAULED BY HAZARD – Cont'd

| TRK | YDS | No of LOADS "E" | No of LOADS "A" | TRK'S TOTAL CU. YDS. |
|---|---|---|---|---|
| 98 | 5½ | IIII II | IIII IIII III | 110.0 |
| D95 | 5½ | IIII II | IIII IIII III | 110.0 |
| 102 | 5½ | IIII | IIII IIII IIII | 110.0 |
| D20 | 9 | IIII I | IIII III | 126.0 |
| D18 | 9 | IIII II | IIII IIII III | 180.0 |

TOTAL CU YDS. FOR DAY 636.0

TOTAL AT "B" 690.5

TOTAL AT "E" 221.5

TOTAL AT "A" 414.5

TOTAL HAULED TO DATE 1,326.5

WED. 11, MAY. 1949

DIRT HAULED BY HAZARD Cont'd

| TRK No | YDS | No of LOADS "A" | "C" | | TOTAL YDS |
|---|---|---|---|---|---|
| 102 | 5 1/2 | 11 | 8 | OK | 110.0 |
| 98 | 5 1/2 | 12 | 7 | OK | 121.0 |
| D95 | 5 1/2 | 9 | 7 | OK | 99.0 |
| D18 | 9 | 11 | 7 | OK | 171.0 |
| 137 | 6 1/2 | 11 | 7 | OK | 123.5 |
| 101 | 5 1/2 | 4 | | OK | 44.0 |
| 20 | 9 | 1 | | OK | 9.0 |

TOTAL FOR DAY 677.5

TOTAL AT "A" = 830.5

TOTAL AT "B" = 690.5

TOTAL AT "C" = 261.5

TOTAL AT "E" = 221.5

TOTAL HAULED TO DATE = 2,004.0

May-16-49 (63)

DIRT HAULED BY HAZARD Cont'd

Area "B"

| TRK No | Yds. | No of LOADS "B" | TRK'S TOTAL YDS |
|---|---|---|---|
| 100 | 5 1/2 | 11 | 17 |
| 92 | 5 1/2 | 11 | 18 |
| 98 | 5 1/2 | 14 | 19 |
| 103 | 5 1/2 | 11 | 17 |
| 101 | 5 1/2 | 14 | 18 |
| 91 | 5 1/2 | 12 | 13 |
| 100 | 5 1/2 | 3 | 3 |

105 Loads
577.5 Yds

Total for Day

Total at "A" - 830.5

" B. 1268.0

" " C 261.5

" " E 221.5

Total to Dat = 2581.5

May 16 - 141603 - 141699 = 97
141700 - 141707 = 8 - 105

6-14-49

Dirt Hauled by Hazard

| Truck. No | Yds. | Area "A" No. of Loads | Yds Total |
|---|---|---|---|
| | 5½ | 21 | 115.5 |
| Total at "A" | | | 830.5 |
| Total Yds. | | | 2697.0 |

June 14 - 141951 - 141971

— o —

June 23-24-27

| | |
|---|---|
| 123501 – 123612 = | 616.0 |
| 1233.613 – 123750 & 144017 – 060 | 803.0 |
| 123751 – 123825 | 500.0 |
| | 4616.0 |



Dirt Hauled by Hazard

| Truck. No | Yds. | No. of Loads | Total |
|---|---|---|---|

Dirt Hauled by Hazard

| Truck No. | Yds. | No. of Loads | Total |
|---|---|---|---|

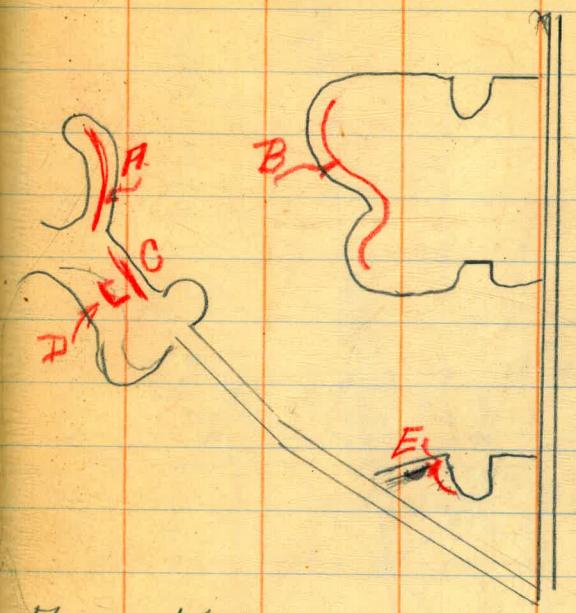


Dirt Hauled by Hazard

| Truck No. | Yds. | No. of Loads | Total |
|---|---|---|---|

Dirt Hauled by Hazard.

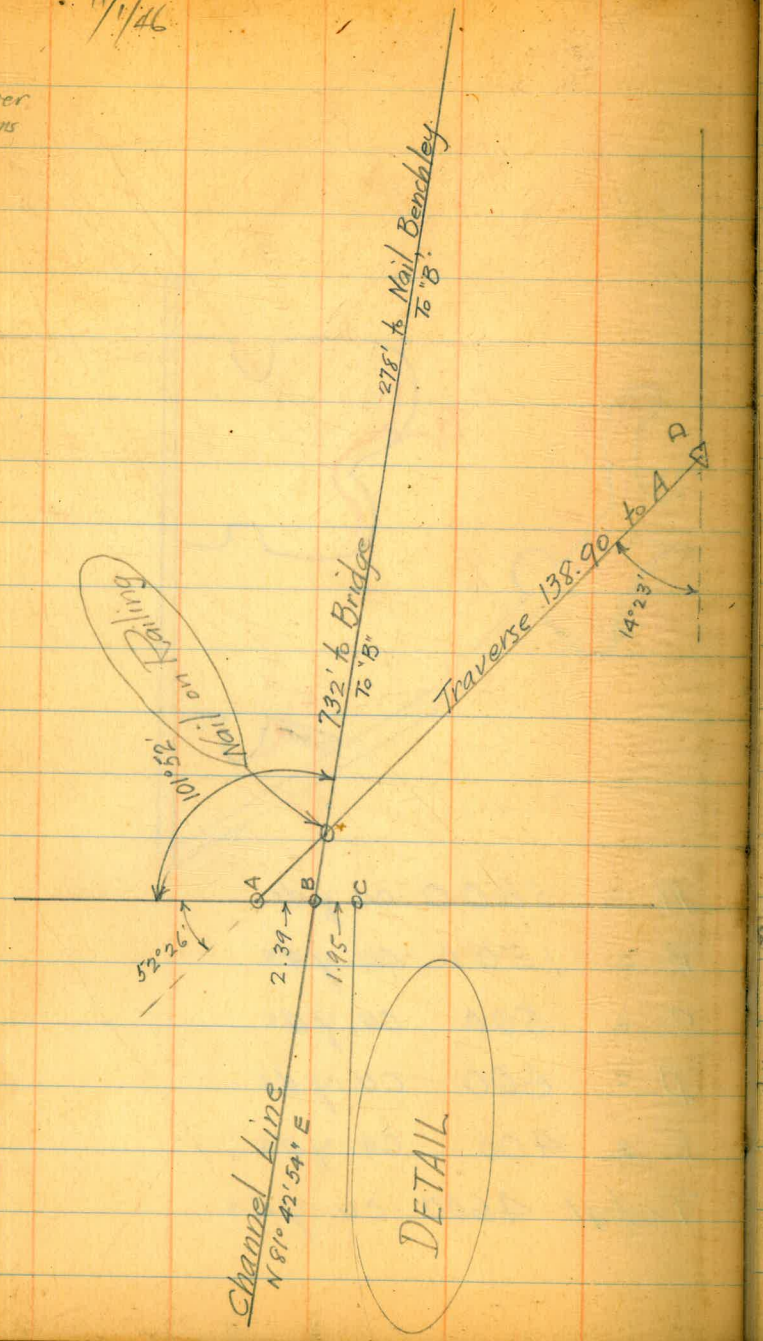
| Truck No | Yds. | No. of Loads. | Total |
|---|---|---|---|




A = 1600 cu. yds.
B = 1500 cu. yds.
C = 500 cu. yds.
D = 600 cu. yds
E = 400 cu. yds.
Total 4600 cu. yds.

11/1/46

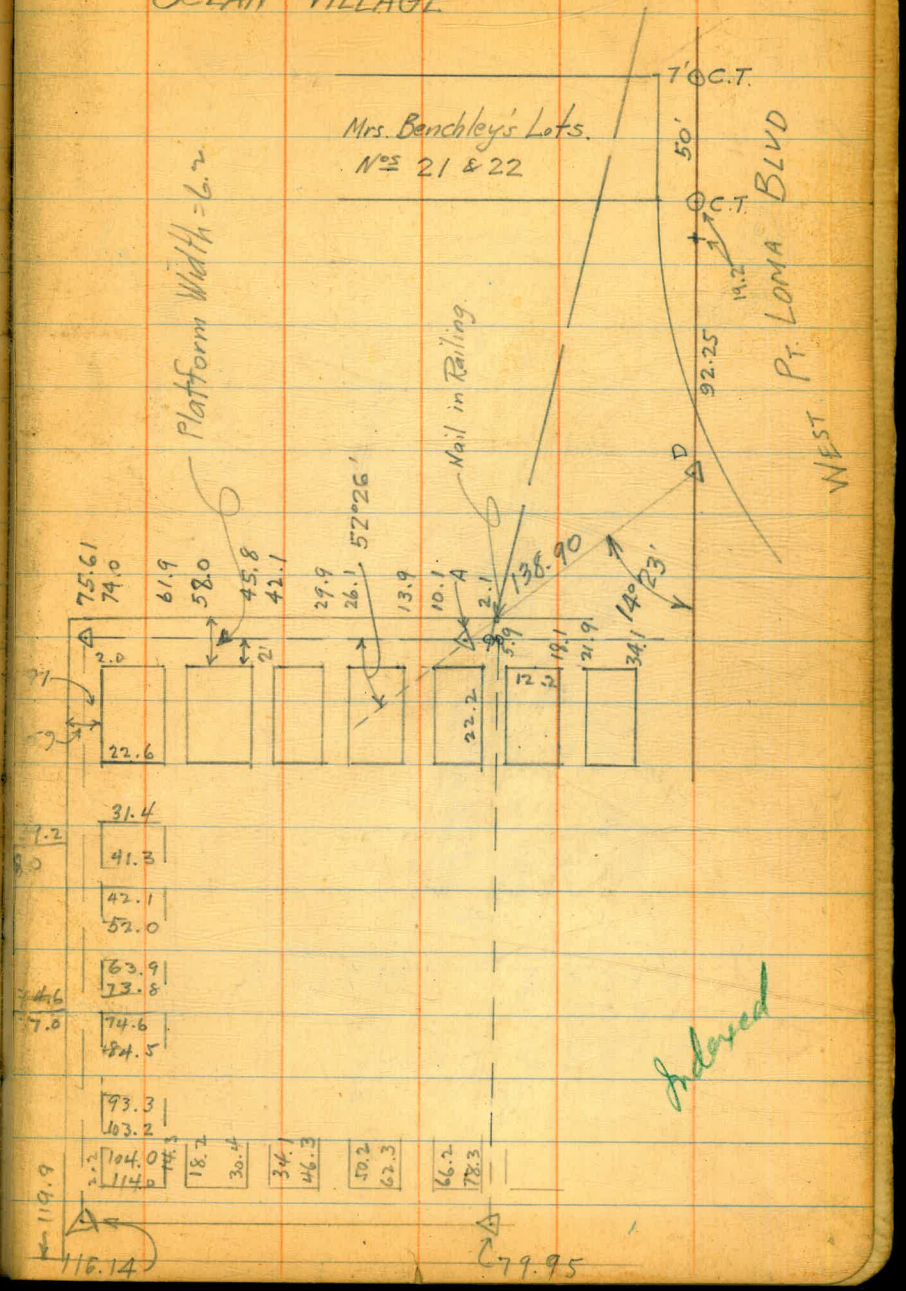
Allen
Stamper
Williams




11/1/46

(69)

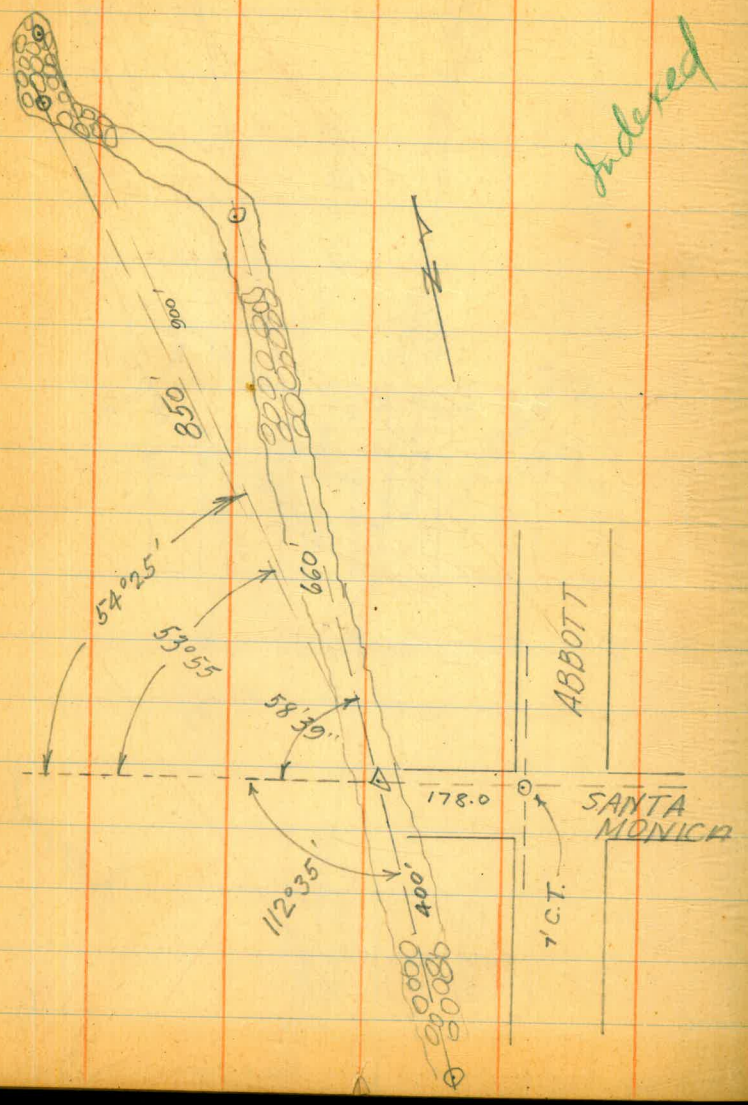
# OCEAN VILLAGE



Nov. 1, 1946.

(70)

# LOCATION OF SEA WALL AT OCEAN BEACH




Indexed

P.h

1:15 = 3.75

1500
1268
5.5) 2320 (42 ~~90~~
220
120
26 16
5.5 9
144

178'

699 1707
603 700
96 7
7
103

11.05
4.68
15.73
12.00
3.73-12
2.73-13
1.73-14

105
5.5
525
525
577.5
830.5
1408.0

25-81.5
577.5
31590

## Table IX.—Calculation of Earthwork.

| Width | HEIGHT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 | .02 | .04 | .06 | .07 | .09 | .11 | .13 | .15 | .17 | .18 | .20 | .22 | .24 | .26 | .28 |
| 2 | .04 | .07 | .11 | .15 | .18 | .22 | .26 | .30 | .33 | .37 | .41 | .44 | .48 | .52 | .56 |
| 3 | .06 | .11 | .17 | .22 | .28 | .33 | .39 | .44 | .50 | .56 | .61 | .67 | .72 | .78 | .83 |
| 4 | .07 | .15 | .22 | .30 | .37 | .44 | .52 | .59 | .67 | .74 | .81 | .89 | .96 | 1.04 | 1.11 |
| 5 | .09 | .19 | .28 | .37 | .46 | .56 | .65 | .74 | .83 | .93 | 1.02 | 1.11 | 1.20 | 1.30 | 1.39 |
| 6 | .11 | .22 | .33 | .44 | .56 | .67 | .78 | .89 | 1.00 | 1.11 | 1.22 | 1.33 | 1.44 | 1.55 | 1.67 |
| 7 | .13 | .26 | .39 | .52 | .65 | .78 | .91 | 1.04 | 1.16 | 1.30 | 1.42 | 1.55 | 1.68 | 1.81 | 1.94 |
| 8 | .15 | .30 | .44 | .59 | .74 | .89 | 1.04 | 1.19 | 1.33 | 1.48 | 1.63 | 1.78 | 1.92 | 2.08 | 2.22 |
| 9 | .17 | .33 | .50 | .67 | .83 | 1.00 | 1.17 | 1.33 | 1.50 | 1.67 | 1.83 | 2.00 | 2.17 | 2.33 | 2.50 |
| 10 | .18 | .37 | .56 | .74 | .93 | 1.11 | 1.30 | 1.48 | 1.67 | 1.85 | 2.04 | 2.22 | 2.41 | 2.59 | 2.78 |
| 11 | .20 | .41 | .61 | .82 | 1.02 | 1.22 | 1.43 | 1.63 | 1.83 | 2.04 | 2.24 | 2.44 | 2.65 | 2.85 | 3.06 |
| 12 | .22 | .44 | .67 | .89 | 1.11 | 1.33 | 1.56 | 1.78 | 2.00 | 2.22 | 2.44 | 2.67 | 2.89 | 3.11 | 3.33 |
| 13 | .24 | .48 | .72 | .96 | 1.20 | 1.44 | 1.68 | 1.92 | 2.16 | 2.41 | 2.65 | 2.89 | 3.13 | 3.37 | 3.61 |
| 14 | .26 | .52 | .78 | 1.04 | 1.30 | 1.55 | 1.81 | 2.08 | 2.33 | 2.59 | 2.85 | 3.11 | 3.37 | 3.63 | 3.89 |
| 15 | .28 | .56 | .83 | 1.11 | 1.39 | 1.67 | 1.94 | 2.22 | 2.50 | 2.78 | 3.06 | 3.33 | 3.61 | 3.89 | 4.17 |
| 16 | .30 | .59 | .89 | 1.18 | 1.48 | 1.78 | 2.07 | 2.37 | 2.67 | 2.96 | 3.26 | 3.56 | 3.85 | 4.15 | 4.44 |
| 17 | .31 | .63 | .94 | 1.26 | 1.57 | 1.89 | 2.20 | 2.52 | 2.83 | 3.15 | 3.46 | 3.78 | 4.09 | 4.41 | 4.72 |
| 18 | .33 | .67 | 1.00 | 1.33 | 1.67 | 2.00 | 2.33 | 2.67 | 3.00 | 3.33 | 3.67 | 4.00 | 4.33 | 4.67 | 5.00 |
| 19 | .35 | .70 | 1.06 | 1.41 | 1.76 | 2.11 | 2.46 | 2.82 | 3.17 | 3.52 | 3.87 | 4.22 | 4.57 | 4.92 | 5.28 |
| 20 | .37 | .74 | 1.11 | 1.48 | 1.85 | 2.22 | 2.59 | 2.96 | 3.33 | 3.70 | 4.07 | 4.44 | 4.81 | 5.18 | 5.56 |
| 21 | .39 | .78 | 1.17 | 1.55 | 1.94 | 2.33 | 2.72 | 3.11 | 3.50 | 3.89 | 4.28 | 4.67 | 5.06 | 5.44 | 5.83 |
| 22 | .41 | .81 | 1.22 | 1.63 | 2.04 | 2.44 | 2.85 | 3.26 | 3.67 | 4.07 | 4.48 | 4.89 | 5.30 | 5.70 | 6.11 |
| 23 | .43 | .85 | 1.28 | 1.70 | 2.13 | 2.56 | 2.98 | 3.41 | 3.83 | 4.26 | 4.68 | 5.11 | 5.54 | 5.96 | 6.39 |
| 24 | .44 | .89 | 1.33 | 1.78 | 2.22 | 2.67 | 3.11 | 3.56 | 4.00 | 4.44 | 4.89 | 5.33 | 5.78 | 6.22 | 6.67 |
| 25 | .46 | .92 | 1.39 | 1.85 | 2.31 | 2.78 | 3.24 | 3.70 | 4.17 | 4.63 | 5.09 | 5.56 | 6.02 | 6.48 | 6.94 |
| 26 | .48 | .96 | 1.44 | 1.92 | 2.41 | 2.89 | 3.37 | 3.85 | 4.33 | 4.82 | 5.30 | 5.78 | 6.26 | 6.74 | 7.24 |
| 27 | .50 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 |
| 28 | .52 | 1.04 | 1.55 | 2.07 | 2.59 | 3.11 | 3.63 | 4.15 | 4.67 | 5.18 | 5.70 | 6.22 | 6.74 | 7.26 | 7.78 |
| 29 | .54 | 1.07 | 1.61 | 2.15 | 2.68 | 3.22 | 3.76 | 4.30 | 4.83 | 5.37 | 5.91 | 6.44 | 6.98 | 7.52 | 8.06 |
| 30 | .56 | 1.11 | 1.67 | 2.22 | 2.78 | 3.33 | 3.89 | 4.44 | 5.00 | 5.55 | 6.11 | 6.67 | 7.22 | 7.78 | 8.33 |
| 31 | .57 | 1.15 | 1.72 | 2.30 | 2.87 | 3.44 | 4.02 | 4.59 | 5.17 | 5.74 | 6.32 | 6.89 | 7.46 | 8.04 | 8.61 |
| 32 | .59 | 1.18 | 1.78 | 2.37 | 2.96 | 3.56 | 4.15 | 4.74 | 5.33 | 5.92 | 6.52 | 7.11 | 7.70 | 8.30 | 8.89 |
| 33 | .61 | 1.22 | 1.83 | 2.44 | 3.05 | 3.67 | 4.28 | 4.89 | 5.50 | 6.11 | 6.72 | 7.33 | 7.94 | 8.55 | 9.17 |
| 34 | .63 | 1.26 | 1.89 | 2.52 | 3.15 | 3.78 | 4.40 | 5.04 | 5.67 | 6.29 | 6.93 | 7.56 | 8.18 | 8.81 | 9.44 |
| 35 | .65 | 1.30 | 1.94 | 2.59 | 3.24 | 3.89 | 4.53 | 5.18 | 5.83 | 6.48 | 7.13 | 7.78 | 8.42 | 9.08 | 9.72 |
| 36 | .67 | 1.33 | 2.00 | 2.67 | 3.33 | 4.00 | 4.66 | 5.33 | 6.00 | 6.67 | 7.33 | 8.00 | 8.67 | 9.33 | 10.00 |
| 37 | .68 | 1.37 | 2.06 | 2.74 | 3.42 | 4.11 | 4.79 | 5.48 | 6.17 | 6.85 | 7.54 | 8.22 | 8.91 | 9.59 | 10.28 |
| 38 | .70 | 1.41 | 2.11 | 2.82 | 3.52 | 4.22 | 4.92 | 5.63 | 6.33 | 7.03 | 7.74 | 8.44 | 9.15 | 9.85 | 10.56 |
| 39 | .72 | 1.44 | 2.17 | 2.89 | 3.61 | 4.33 | 5.05 | 5.78 | 6.50 | 7.22 | 7.95 | 8.67 | 9.39 | 10.11 | 10.83 |
| 40 | .74 | 1.48 | 2.22 | 2.96 | 3.70 | 4.44 | 5.18 | 5.92 | 6.67 | 7.41 | 8.15 | 8.89 | 9.63 | 10.37 | 11.11 |

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w =16.2 and h =5.3, cu. yds. =1.48+.028+.089 =1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) =h, and ½ the roadbed =w, add the triangles formed by taking the distance out to each break in turn ( =w's) by the difference between the cuts (or fills) on each side of it ( =h's) always subtracting the outer from the inner.

## Distances from Center of Roadway for Cross-Sectioning.

**Roadway 16 feet wide. Side Slopes 1 on 1½.**

**For Single Track Embankment.**

| H | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.8 | 8.9 | 9.1 | 9.2 | 9.4 | 0 |
| 1 | 9.5 | 9.7 | 9.8 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 | 10.7 | 10.9 | 1 |
| 2 | 11.0 | 11.2 | 11.3 | 11.5 | 11.6 | 11.8 | 11.9 | 12.1 | 12.2 | 12.4 | 2 |
| 3 | 12.5 | 12.7 | 12.8 | 13.0 | 13.1 | 13.3 | 13.4 | 13.6 | 13.7 | 13.9 | 3 |
| 4 | 14.0 | 14.2 | 14.3 | 14.5 | 14.6 | 14.8 | 14.9 | 15.1 | 15.2 | 15.4 | 4 |
| 5 | 15.5 | 15.7 | 15.8 | 16.0 | 16.1 | 16.3 | 16.4 | 16.6 | 16.7 | 16.9 | 5 |
| 6 | 17.0 | 17.2 | 17.3 | 17.5 | 17.6 | 17.8 | 17.9 | 18.1 | 18.2 | 18.4 | 6 |
| 7 | 18.5 | 18.7 | 18.8 | 19.0 | 19.1 | 19.3 | 19.4 | 19.6 | 19.7 | 19.9 | 7 |
| 8 | 20.0 | 20.2 | 20.3 | 20.5 | 20.6 | 20.8 | 20.9 | 21.1 | 21.2 | 21.4 | 8 |
| 9 | 21.5 | 21.7 | 21.8 | 22.0 | 22.1 | 22.3 | 22.4 | 22.6 | 22.7 | 22.9 | 9 |
| 10 | 23.0 | 23.2 | 23.3 | 23.5 | 23.6 | 23.8 | 23.9 | 24.1 | 24.2 | 24.4 | 10 |
| 11 | 24.5 | 24.7 | 24.8 | 25.0 | 25.1 | 25.3 | 25.4 | 25.6 | 25.7 | 25.9 | 11 |
| 12 | 26.0 | 26.2 | 26.3 | 26.5 | 26.6 | 26.8 | 26.9 | 27.1 | 27.2 | 27.4 | 12 |
| 13 | 27.5 | 27.7 | 27.8 | 28.0 | 28.1 | 28.3 | 28.4 | 28.6 | 28.7 | 28.9 | 13 |
| 14 | 29.0 | 29.2 | 29.3 | 29.5 | 29.6 | 29.8 | 29.9 | 30.1 | 30.2 | 30.4 | 14 |
| 15 | 30.5 | 30.7 | 30.8 | 31.0 | 31.1 | 31.3 | 31.4 | 31.6 | 31.7 | 31.9 | 15 |
| 16 | 32.0 | 32.2 | 32.3 | 32.5 | 32.6 | 32.8 | 32.9 | 33.1 | 33.2 | 33.4 | 16 |
| 17 | 33.5 | 33.7 | 33.8 | 34.0 | 34.1 | 34.3 | 34.4 | 34.6 | 34.7 | 34.9 | 17 |
| 18 | 35.0 | 35.2 | 35.3 | 35.5 | 35.6 | 35.8 | 35.9 | 36.1 | 36.2 | 36.4 | 18 |
| 19 | 36.5 | 36.7 | 36.8 | 37.0 | 37.1 | 37.3 | 37.4 | 37.6 | 37.7 | 37.9 | 19 |
| 20 | 38.0 | 38.2 | 38.3 | 38.5 | 38.6 | 38.8 | 38.9 | 39.1 | 39.2 | 39.4 | 20 |
| 21 | 39.5 | 39.7 | 39.8 | 40.0 | 40.1 | 40.3 | 40.4 | 40.6 | 40.7 | 40.9 | 21 |
| 22 | 41.0 | 41.2 | 41.3 | 41.5 | 41.6 | 41.8 | 41.9 | 42.1 | 42.2 | 42.4 | 22 |
| 23 | 42.5 | 42.7 | 42.8 | 43.0 | 43.1 | 43.3 | 43.4 | 43.6 | 43.7 | 43.9 | 23 |
| 24 | 44.0 | 44.2 | 44.3 | 44.5 | 44.6 | 44.8 | 44.9 | 45.1 | 45.2 | 45.4 | 24 |
| 25 | 45.5 | 45.7 | 45.8 | 46.0 | 46.1 | 46.3 | 46.4 | 46.6 | 46.7 | 46.9 | 25 |
| 26 | 47.0 | 47.2 | 47.3 | 47.5 | 47.6 | 47.8 | 47.9 | 48.1 | 48.2 | 48.4 | 26 |
| 27 | 48.5 | 48.7 | 48.8 | 49.0 | 49.1 | 49.3 | 49.4 | 49.6 | 49.7 | 49.9 | 27 |
| 28 | 50.0 | 50.2 | 50.3 | 50.5 | 50.6 | 50.8 | 50.9 | 51.1 | 51.2 | 51.4 | 28 |
| 29 | 51.5 | 51.7 | 51.8 | 52.0 | 52.1 | 52.3 | 52.4 | 52.6 | 52.7 | 52.9 | 29 |
| 30 | 53.0 | 53.2 | 53.3 | 53.5 | 53.6 | 53.8 | 53.9 | 54.1 | 54.2 | 54.4 | 30 |
| 31 | 54.5 | 54.7 | 54.8 | 55.0 | 55.1 | 55.3 | 55.4 | 55.6 | 55.7 | 55.9 | 31 |
| 32 | 56.0 | 56.2 | 56.3 | 56.5 | 56.6 | 56.8 | 56.9 | 57.1 | 57.2 | 57.4 | 32 |
| 33 | 57.5 | 57.7 | 57.8 | 58.0 | 58.1 | 58.3 | 58.4 | 58.6 | 58.7 | 58.9 | 33 |
| 34 | 59.0 | 59.2 | 59.3 | 59.5 | 59.6 | 59.8 | 59.9 | 60.1 | 60.2 | 60.4 | 34 |
| 35 | 60.5 | 60.7 | 60.8 | 61.0 | 61.1 | 61.3 | 61.4 | 61.6 | 61.7 | 61.9 | 35 |
| 36 | 62.0 | 62.2 | 62.3 | 62.5 | 62.6 | 62.8 | 62.9 | 63.1 | 63.2 | 63.4 | 36 |
| 37 | 63.5 | 63.7 | 63.8 | 64.0 | 64.1 | 64.3 | 64.4 | 64.6 | 64.7 | 64.9 | 37 |
| 38 | 65.0 | 65.2 | 65.3 | 65.5 | 65.6 | 65.8 | 65.9 | 66.1 | 66.2 | 66.4 | 38 |
| 39 | 66.5 | 66.7 | 66.8 | 67.0 | 67.1 | 67.3 | 67.4 | 67.6 | 67.7 | 67.9 | 39 |
| 40 | 68.0 | 68.2 | 68.3 | 68.5 | 68.6 | 68.8 | 68.9 | 69.1 | 69.2 | 69.4 | 40 |

**Example**—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =43.9. For slopes of 1 on 1 see inside of front cover.

Made in Germany.