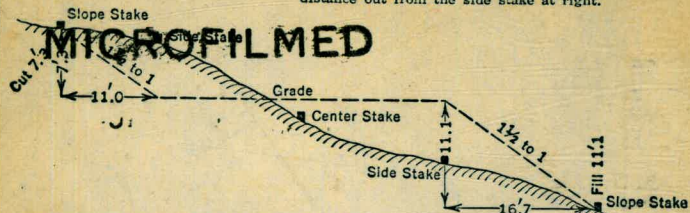


DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ to 1.

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.

ELEV, 106 - 8.94

107

BOOK NO

10

13.32
7.83
21.15
14.67
6.78
5.15

8.96
17.40
6.40

TOP HUB STA 90 R100
6.47

3-20-47
PT. BENT 8545
PTORC. 5419

94 - 700
+50 - "
95 - "
+50 - "
96+00 - 800
+50 - 900
97 - 1000
+50 - "
98+00 - 1100
99+00 - 1950
100+00 - 1200
101+00 - 1350

3-20-47
86017
54019
3-20-47
DREDGE
77042
54008

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

12,163-3. ko, y, yh. cM.

3-17-47

P1 TO PENT 83° 02'

PENT TO RC, 54° 04'

1.414

4.242

1.24

100 - 1100 - TO E. OF CUT EAST

101 - R. LINE " " " "

102 - 900' E. " " " "

99 - 1050 E " " " "

98 - 950 E " " " "

97 - 750 E " " " "

96 - 700 E " " " " BANK

3-17-47

P1 - PENT. 89° 58'

P TO R.C. 53° 09'

L = 32° 33' 30"

2. Layout of Project #7

at Sunset Point

1-15-46

3. Layout of Project #6

Disposal Area "B"

3.

98

0
1
2
3
4
5
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TRIANGULATION OF CONTROL

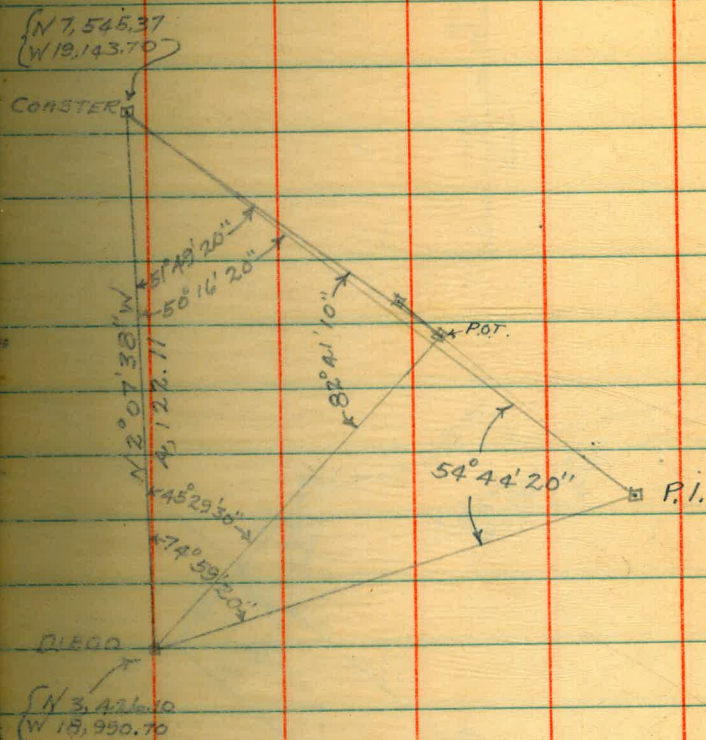
POINTS FOR MISSION BAY PROJECT No. 1

STA	OBJECT	SIX ANGLES	VERNIER
U.S.E.D.	COASTER	①	$45^{\circ} 29' 00''$
DIEGO	R ₇	②	$90^{\circ} 58' 45'' 0^{\circ} 00' 00''$
	P.O.T.	③	$272^{\circ} 57' 00''$
	SUNSET PT.	④	$45^{\circ} 29' 30''$
	* RD. VENT. AV.		
U.S.C.+G.S.			
U.S.E.D.	COASTER	①	$74^{\circ} 59' 00''$
DIEGO	R ₇	②	$149^{\circ} 58' 30''$
	R.D. PI.	③	$449^{\circ} 56' 00''$
	VENTURA BLV.	④	$0^{\circ} 00' 00''$
	SUNSET PT.	AV.	$74^{\circ} 59' 20''$
	P.O.T.		
	SUNSET PT.		
U.S.C.+G.S.	* RD. VENT. BLV.	①	$51^{\circ} 49' 00''$
COASTER	R ₇	②	$103^{\circ} 38' 30''$
	U.S.E.D.	③	$310^{\circ} 56' 00''$
DIEGO	AV.		$51^{\circ} 49' 20''$
	R.D. PI.		
	VENTURA BLVD.		
U.S.C.+G.S.	* SUNSET PT.	①	$50^{\circ} 16' 00''$
COASTER	R ₇	②	$100^{\circ} 32' 30''$
	U.S.E.D.	③	$301^{\circ} 38' 00''$
DIEGO	AV.		$50^{\circ} 16' 20''$

1-14-47

Indexed

T. STAMPER
A. SHERRY
N. STANLEY



LAYOUT OF PROJECT NO. 7

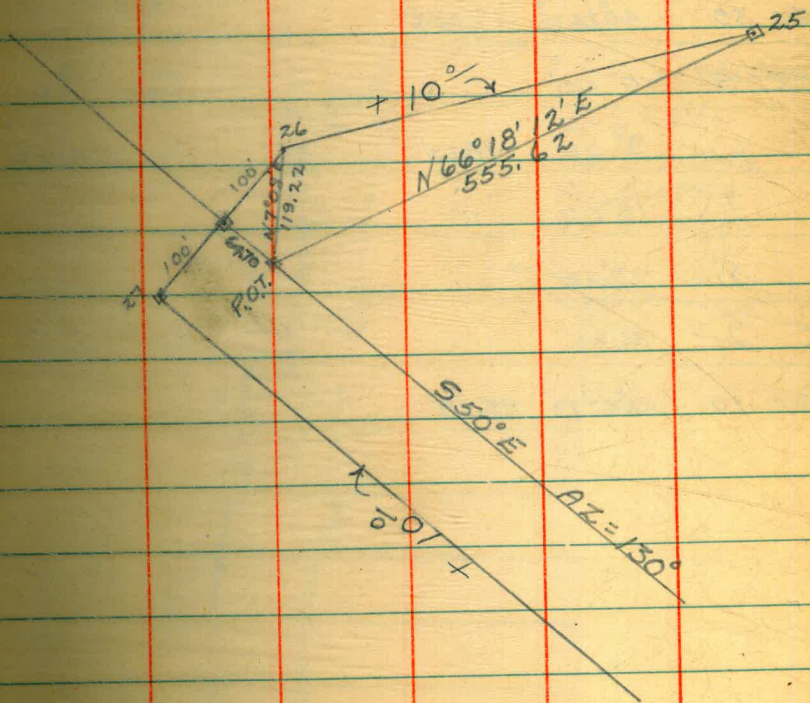
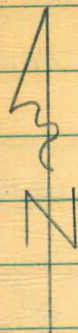
AT SUNSET POINT

Indexed

7
1-15-48

2

TOM STAMPER

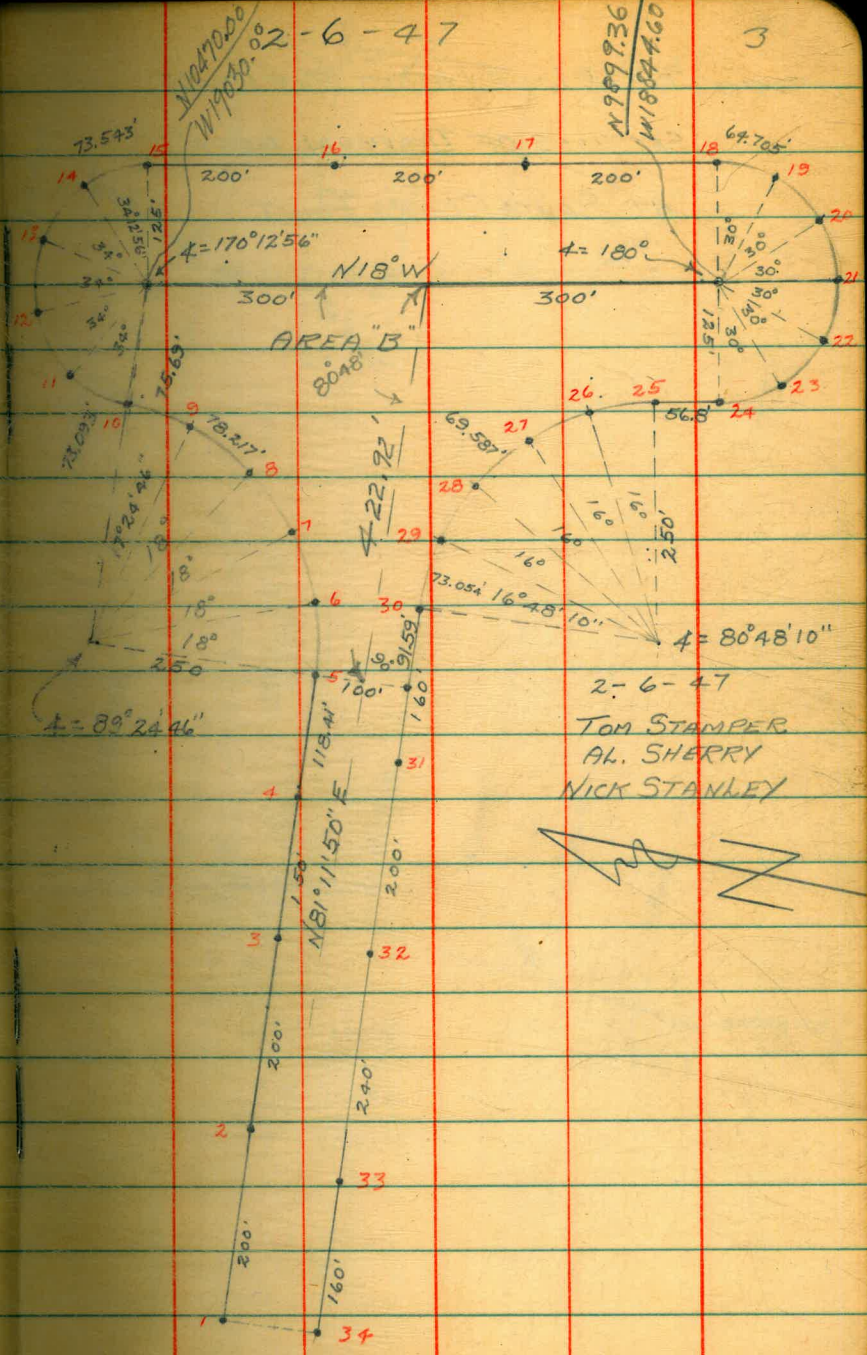


LAYOUT OF MISSION BAY PROJECT

No. 6 DISPOSAL AREA "B"

Indexed

STA.	DEF L	CHORD
B.C. 25		
26	8°00'	69.59'
27	16°00'	"
28	24°00'	"
29	32°00'	"
E.C. 30	40°24'05"	73.054'
B.C. 5	0°00'	
6	9°00'	78.22'
7	18°00'	"
8	27°00'	"
9	36°00'	"
P.R.C. 10	44°42'23"	75.69'



2-6-47
 TOM STAMPER
 AL. SHERRY
 NICK STANLEY



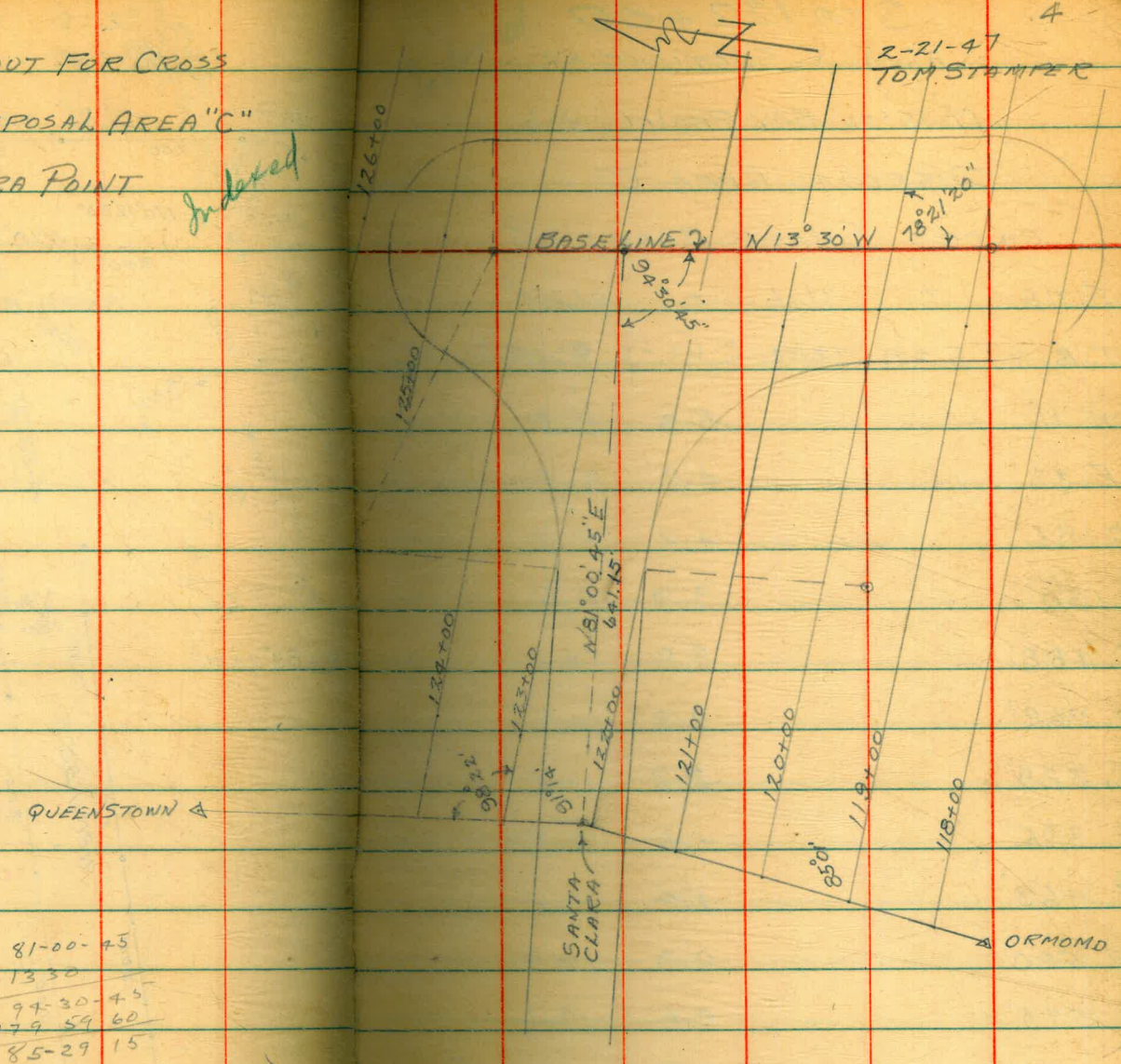
N102°00'00"
 W190°00'02"-6-47

N99°9.36"
 W180°47.60"

BASELINE LAYOUT FOR CROSS
SECTIONS OF DISPOSAL AREA "C"
AT SANTA CLARA POINT

Indexed

2-21-47
TOM STAMPER



10-13-20
81-00-45
91-14-05
179-59-60
88-43-55

81-00-45
1330
94-30-45
179-59-60
85-29-15

STA 122+00
FINAL X-SECTIONS OF
MISSION BAY PROJECT No. 6.
DISPOSAL AREA "C"

0+00 = SHORE BASELINE

STA	T	H.I.	-	ELEV.
T.B.M.	5.30	13.7		8.40
W 11'			5.3	8.4
E 38'			4.7	9.0
E 86'			4.4	9.3
E 130'			3.9	9.8
E 188'			3.2	10.5
E 262'			2.8	10.9
E 329'			2.2	11.5
E 395'			1.6	12.1
E 463'			1.2	12.5
E 520'			0.8	12.9
E 575'			0.6	13.1
E 650'			1.5	12.2

Indexed

STA 122+00 X-IN S. WALK

121+00
Final Sections

0+00 = Shore Baseline

T.B.M.	+	H.I.	-	El.	Sta.	121+00	x in Side Walk
	5.10	13.52		8.42			
E 682'			1.2	12.3			
E. 640'			1.2	12.3			
E. 595'			1.0	12.5			
E. 550'			2.0	11.5			
E. 520'			2.5	11.0			
E. 485'			4.5	9.0			
E. 450'			6.5	7.0			
E. 428'			8.2	5.3			
E 395'			9.7	3.8			
E. 158'			9.5	4.0			
E. 138'			8.7	4.9			
E. 120'			7.7	5.8			
E 90'			6.4	7.1			
E 64'			5.6	7.9			
E. 36			5.5	8.0			
E 14			5.4	8.1			
W 2			53	8.2			

STA 123+00

Final Sections

7

0+100 = Shore Base Line

T. T.B.M. + H.L. - E.L.

527 13.61 1.1 8.34

Sta 123+00 Stake What Side Walk

E W. 4' 5.3 8.3

E E 17' 5.1 8.5

E E. 48' 5.0 8.6

E E. 82' 5.4 8.2

E E 110' 5.6 8.0

E E 146' 6.1 7.5

E E 178' 5.3 8.3

E E 225' 4.7 8.9

E E. 270' 3.6 10.0

E E. 311' 2.7 10.9

E E 360' 2.0 11.6

E E 410' 1.7 11.9

E E 462' 1.3 12.3

E E 520 0.6 13.0

E E 560 0.5 13.1

E E 600 0.9 12.7

E E 645' 1.2 12.4

STA 124+00
Final Sections

8

otro = Shore Base Line

T T.B.M. + HI. - EL

5.63 14.04 8.41 8.91

Sta. 124+00 x in side Walk

E E 636' 1.5 12.54

E E 600' 1.6 12.4

E E 570' 1.4 12.6

E E 533' 1.8 12.2

E E 505' 2.4 11.6

E E 485' 2.7 11.3

E E 468' 4.2 9.8

E E 448' 6.2 7.8

E E 430' 7.7 6.3

E E 415' 9.1 4.9

E E 400' 10.5 3.5

E E 120' 10.7 3.6

E E 103' 8.2 5.8

E E 86' 6.6 7.4

E E 68' 5.5 8.5

E E 40' 5.4 8.6

✓ E 17' 5.5 8.5

STA 125+00

Final Sections

2-21-47

9

0+00 = Radius Line

T.B.M.	+	H.I.	-	EL.
	880	17.20		8.40
E W 163'			13.6	3.6
E W 143'			11.3	5.9
E W 120'			8.8	8.4
E W 100'			6.6	10.6
E W 80'			5.7	11.5
E W 48'			5.5	11.7
E W			5.4	11.8
E 0.0			5.3	11.9
E E 33'			5.3	11.9
E E 43'			5.4	11.8
E E 106'			6.3	10.9
E E 130'			8.0	9.2
E E 160'			10.7	6.5
E E 194'			13.8	3.4
E				
T.B.M.			15.3	15.67
			9.5	7.70

Sta 125+00 Radius Line

Top of N. Radius Stake

Sta 126+00

STA 126+00
Final Section

2-21-47

16

0+00 - Radius Line

T.T.B.M. + H.I. - E.I.

5.0 12.70 7.70

Sta 126+00

E W 96' 9.4 3.3

E W 70' 7.8 4.9

E W 50' 6.6 6.1

E W 23' 5.6 7.1

E 0.0 5.0 5.0 7.7

Sta 126+00

E F 36' 5.7 7.0

E F 70' 6.9 5.8

E F 104' 7.9 4.8

E F 130' 8.7 4.0

E F 155' 9.5 3.2

E

E

E

E

E

E

STA 120+00
Final Sections

2-21-47

11

0+00 = Radius Line

T.B.M.	+	H.I.	-	FL.
				15.67
E	2.03	17.70		
E	E 212'		15.7	2.0
E	F 19.3		12.7	5.0
E	E 168		10.4	7.3
E	E 140		8.3	9.4
E	E 116		6.1	11.6
E	E 80		5.7	12.0
E	E 40'		5.3	12.4
E	0.0		5.4	12.3
E	W 38'		5.4	12.3
E	W 85'		5.8	11.9
E	W 126'		6.1	11.6
E	W 150		7.8	9.9
E	W 180		10.7	7.0
E	W 203'		13.0	4.7
E	W 224'		14.7	3.0

Top of N. Radius Stake

Sta 120+00

Sta

STA 118+00
 + HI - EI
 0+00 - Radius Line
 17.70

2-21-47

12

919

5.5 12.20

118

5.9 11.80

E

E T.B.M. + HI - EI

E 0.0 5.9 17.20 5.4 11.8

Sta 118+00

E E 160' 13.9 3.3

E E 136' 11.1 5.1

E E 111' 8.1 8.1

E E 82' 6.1 11.1

E E 42' 5.5 11.7

E W 40' 5.7 11.5

E W 82' 5.6 11.6

E W 116' 6.4 10.8

E W 142' 8.6 8.6

E W 180' 11.4 5.9

E W 210' 14.5 2.7

STA 119+00
Final Sections

0+00 - Radius Line

T.B.M.	+	H.I.	-	E.I.
	5.1	17.31	5.1	11.2
E W 232'			14.5	3.9
E W 205'			12.8	4.5
E W 172			9.5	7.8
E W 134'			6.1	11.2
E W 88'			5.7	11.6
E W 44			5.2	11.1
E E 50'			5.3	11.5
E E 99'			5.6	11.7
E E 120			6.5	10.8
E E 142'			9.0	8.3
E E 173			11.6	5.7
E E 210			14.6	2.7

12 20 2-21-47

13

Sta 119+00

STA 122+00
Final Sections
0+00 = Radius Line

14

TBM

+ HI - EI

9.38 17.78 8.40

Sta 122 x in sidewalk

E 30' 5.3 12.5

E 75' 5.3 12.5

E 121' 6.5 11.9

E 154' 9.1 8.1

E 186 11.9 5.9
~~7.9~~

E 212 15.0 2.7

STA 121+00
0+00 = Radius Line

TBM

+ HI - EI

4.9 17.22 -4.9 12.32

Sta 122+00

E 210 14.5 2.7

E 184 11.9 5.3

E 150 8.8 8.4

E 124 6.3 10.9

E 89 5.1 11.1

E 48 4.9 12.3

x

STA 123+00.
Final Sections

15

0+00 = Radius Line

T.B.M + HI - FI

5.0 17.41 5.0 12.41

Sta 123+00

E

W 30' 5.0 12.4

W 70' 5.0 12.4

W 9.8' 5.5 11.9

W 126' 6.4 11.0

W 150' 9.0 8.0

W 180' 11.7 5.7

W 212 15.0 2.4

STA 124+00

0+00 = Radius Line

T.B.M + HI - FI

5.2 17.74 5.2 12.54

Sta 124+00

E

W 220' 15.3 2.4

W 194' 13.0 4.7

W 175' 10.8 6.9

W 152 9.0 8.7

W 126 6.6 10.1

W 104 5.8 11.9

W 76 5.2 12.5

W 38 5.1 12.6

PX
Advised

2-25-47

FINAL SOUNDINGS OF

MISSION BAY PROJ #6

S: EAST STA 100+00 0+00 = S TORES

DIST SOUND DIST SOUND

1+30 0.0 +3.6 3+00 12.4 8.5

10:18 2.0 +1.6 12.5 8.5

50 4.0 -0.4 12.7 9.5

6.5 -2.9 13.0 9.5

(3.6) 8.1 4.5 12.4 8.5

9.0 5.4 50 12.5 8.5

9.8 6.2 12.6 9.5

2+00 10.4 6.8 10:22 12.8 9.5

11.1 7.5 13.2 9.5

11.8 8.2 (3.6) 13.4 9.5

12.3 8.7 4+00 13.4 9.5

12.3 8.7 13.5 9.5

50 12.5 8.9 13.3 9.5

13.0 9.4 13.3 9.5

13.1 9.5 13.3 9.5

10:20 12.8 9.2 50 13.3 9.5

12.5 8.9 12.6 9.5

100+00 2-25-47

17

DIST SOUND

DIST SOUND

12.1 8.4 10:26 14.0 10.3

12.3 8.6 14.0 10.3

12.3 8.6 14.0 10.3

5+00 12.4 8.7 7+00 14.0 10.3

12.4 8.7 13.8 10.1

12.3 8.6 13.8 10.1

12.2 8.5 14.3 10.6

10:29 12.2 8.5 14.3 10.6

50 13.5 9.8 50 14.3 10.6

13.7 10.0 13.0 9.3

(3.7) 13.4 9.7 12.5 8.8

13.0 9.3 10:29 12.3 8.6

12.4 8.7 12.3 8.6

6+00 12.3 8.6 8+00 12.5 8.8

12.1 8.4 (3.7) 13.0 9.3

12.3 8.6 14.4 10.7

13.5 9.8 14.4 10.7

13.5 9.8 14.4 10.7

50 13.5 9.8 50 15.0 11.3

14.0 10.3 15.0 11.3

100+00 2-25-47 SOUND EAST

	DIST	SOUND		DIST	SOUND
8+70	14.5	-10.8		13.5	-9.7
	14.3	10.6		13.3	9.7
	14.7	11.0		13.5	9.7
9+00	15.0	11.3	10:34	13.5	9.7
10:30	14.7	11.0	11+00	13.4	9.7
	14.4	10.7	(3.8)	13.4	9.7
	14.1	10.4		14.0	10.2
(3.7)	14.0	10.3		13.5	9.7
50	14.0	10.3	50	14.0	10.2
	13.8	10.1		14.0	10.2
	14.0	10.3		14.5	10.2
	14.0	10.3		14.5	10.2
	13.7	10.0		14.5	10.2
10+00	13.7	10.0	12+00	14.7	10.2
	14.0	10.3		14.6	10.2
10:32	14.0	10.3		14.6	10.2
	14.0	10.3		14.7	10.2
	14.0	10.3		15.0	11.2
50	13.6	9.9	50	15.2	11.2
	13.4	9.7		15.2	11.2

2-25-47

100+00 SOUND EAST 18

	DIST	SOUND		DIST	SOUND
	15.0	-11.2		13.0	-9.2
	13.0	-9.2		11.1	-7.3
	(3.8)	11.1		11.0	-7.2
	13+00	11.0			

2-25-47
 0+00 - SHORE B/L. SOUND EAST
 STA 99+00

P.X.

DIST	SOUND	DIST	SOUND
1+50	0.0 +3.9	13.3	-9
10:48	1.6 +2.3	50 13.3	-9
E	3.5 +0.4	13.1	-9
E	6.0 -2.1	13.4	-9
E	7.0 -3.1	13.4	-9
2+00	8.1 -4.2	14.2	-10
	9.2 -5.3	10:52 4+00 14.2	-10
	10.0 -6.1	14.0	-10
(3.9)	11.4 -7.5	13.7	-9
	12.4 -8.5	14.0	-10
50	12.7 -8.8	14.0	-10
	12.8 -8.9	50 14.1	-10
	13.0 9.1	14.0	-10
	13.2 -9.3	(3.9) 14.0	-10
10:50	13.5 -9.6	14.2	-10
3+00	14.5 -10.6	14.2	-10
	14.5 -10.6	5+00 14.0	-10
	14.1 10.2	10:54 14.4	-10
	13.4 9.5	(4.0) 14.0	-10

2-25-47
 99+00 SOUND EAST

19

DIST	SOUND	DIST	SOUND
14.0	-10.0	13.5	-9.5
13.5	-9.5	13.7	-9.7
50 13.5	-9.5	13.7	-9.7
13.8	-9.8	50 13.5	-9.5
14.1	-10.1	10:56 13.5	-9.5
13.4	-9.4	13.2	-9.2
13.4	-9.4	13.2	
13.3	-9.3	13.2	
13.4	9.4	8+00 13.0	-9.0
13.4	-8.4	13.0	
13.5	-9.5	(4.0) 13.0	
13.6	-9.6	13.4	-9.4
50 13.7	-9.7	13.8	-9.8
13.7	-9.7	50 13.8	
13.7	-9.7	13.8	
14.0	-10.0	13.6	-9.6
14.0	-10.0	11:00 13.7	-9.7
14.0	-10.0	13.7	9.7
14.0	-10.0	9+00 14.0	-10.0

2-25-47

STA. 99+00 SOUND EAST

DIST	SOUND	DIST	SOUND
9+10	14.0 - 10.0	11+00	13.6 - 9.8
	14.0 } 13.3 - 9.8		13.3 - 9.8
	14.0 } 13.0 - 9.8		13.0 - 9.8
	14.2 - 10.2		12.0 - 8.8
50	14.4 - 10.4		10.5 - 6.5
	14.2 - 10.2	50	10.5 - 6.5
11:02	13.8 - 9.8		10.5 - 6.5
	13.5 - 9.5	(4.0)	10.6 - 6.6
	13.5 9.5		10.7 - 6.7
10+00	13.4 - 9.4		10.7 - 6.7
	13.7 - 9.7	12+00	10.8 - 6.8
(4.0)	14.0 10.0		11.0 - 7.0
	14.0 }	11:06	10.8 - 6.8
	14.0 }		10.5 - 6.5
50	15.1 - 11.1		10.4 - 6.4
	15.5 - 11.5	50	10.1 - 6.1
	15.5 - 11.5		10.1 - 6.1
	15.0 - 11.0		10.1 - 6.1
11:04	14.5 - 10.5		10.1 - 6.1

2-25-47

STA. 99+00 SOUND EAST²⁰

DIST	SOUND	DIST	SOUND
			11.1 - 7.0
			10.7 - 6.6
		11:10	10.5 - 6.4
		15+00	10.0 - 5.9
			9.6 - 5.5
		(4.0)	9.5 - 5.4
			9.5 - 5.4
		50	9.6 - 5.5
			9.7 - 5.6
		11:08	10.0 - 5.9
			10.0 - 5.9
			10.2 - 6.1
		12+00	9.8 - 5.8
			9.0 - 5.0
		16+00	10.2 - 6.1
		(4.1)	10.4 - 6.3
			11.0 - 6.9
			11.2 - 7.1
		50	11.3 - 7.2
		11:12	11.2 - 7.1
		50	11.5 - 7.4
			11.2 - 7.1
			11.4 - 7.3

99+00 2-25-47
DIST SOUND SOUND EAST

11.2 -7.1

11.5 -7.4

11.3 -7.2

17+00 11.2 -7.1

11.2 -7.1

11.0 -6.9

(4.1) 11.0 -6.9

11.0 -6.9

50 11.5 -7.4

12.8 -8.7

13.3 -9.2

11.14 13.4 -9.2

(4.2) 13.5 -9.3

18+00 13.7 -9.5

14.0 -9.8

2-25-47
0+00=SHORE B/L SOUND EAST 21

PX. STA 98+00

DIST SOUND DIST SOUND

11:65 0.0 +4.2 14.0 -9.8

11:27 1.0 +3.2 50 13.5 9.3

3.5 +0.7 13.2 9.0

5.0 -0.8 13.0 8.8

11:00 5.3 -1.1 12.8 8.6

6.5 2.2 13.5 9.3

(4.2) 7.2 3.0 4+00 12.8 8.6

9.1 4.9 12.8 8.6

10.4 6.2 13.0 8.8

50 12.0 7.8 (4.2) 13.0 8.8

12.3 8.1 13.2 9.0

12.3 8.1 50 13.0 8.8

12.2 8.0 13.0 8.8

10:29 13.0 8.8 13.0 8.8

3+00 13.5 9.3 11:32 13.0 8.8

14.0 9.8 12.7 8.5

14.1 9.9 5+00 12.7 8.5

14.3 10.1 13.1 8.9

2-25-47
98+00 SOUND EAST

DIST	SOUND		DIST.	SOUND
5+20	13.2	- 8.9	15.0	- 10.7
	13.4	9.1	15.0	10.7
10:33	13.5	9.2	15.4	11.1
50	13.3	9.0	15.5	11.2
	13.0	8.7	50 15.2	10.8
(4.3)	13.0	{	15.4	11.1
	13.0	{	(4.3) 15.7	11.4
	13.0	{	16.3	12.3
6+00	12.6	8.3	15.7	11.4
	12.8	8.5	8+00 15.1	10.8
(4.3)	13.0	8.7	15.0	10.7
	13.3	9.0	15.2	10.9
	13.3	9.0	11:37 15.1	10.8
50	13.7	9.4	15.1	10.8
	14.0	9.7	50 15.0	10.7
	14.1	9.8	15.0	10.7
11:35	14.5	10.2	15.0	10.7
	14.7	10.4	15.0	10.7
7+00	15.0	10.7	15.0	10.7

2-25-47
98+00 SOUND EAST

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DIST	SOUND		DIST.	SOUND
9+00	15.0	- 10.7	11.2	- 6.9
	14.8	10.5	11+00 11.7	7.4
	14.8	10.5	11.8	7.5
	14.9	10.6	11.8	7.5
11:39	14.0	9.7	11.4	7.1
50	13.5	9.2	10.1	5.8
	10.5	6.2	50 10.0	5.7
	10.1	5.8	10.5	6.2
(4.3)	10.1	5.8	10.4	6.1
	10.1	5.8	(4.3) 10.3	6.0
10:00	10.0	5.7	10.2	5.9
	10.0	{	12+00 10.2	5.9
	10.0	{	10.3	6.0
	10.0	{	10.3	6.0
	10.0	{	10.3	6.0
	10.0	{	10:44 10.4	6.1
11:50	10.0	- 5.7	10.4	6.1
	10.6	6.3	50 10.4	6.1
	10.1	- 5.8	10.1	5.8
	11.7	7.4	10.0	5.7

2-25-47
98+00 SOUND EAST
DIST SOUND

12+80	10.0	5.7		11.0	6.7
	10.2	5.9		11.5	7.2
13+00	10.2	5.9	15+00	12.0	7.7
	10.0	5.7		12.3	8.0
11:45	9.8	5.5		12.6	8.2
	10.2	5.9		12.4	8.1
	11.0	6.7		12.0	7.7
50	11.2	6.9	50	11.8	7.6
	10.8	6.5		11.5	7.2
4.3	11.0	6.7	4.3	11.5	7.2
	11.1	6.8		11.5	7.2
	11.3	7.0	11:49	11.3	7.0
14+00	11.8	7.5	16+00	11.3	7.0
	12.1	7.8		11.5	7.2
	12.0	7.7		11.6	7.3
	12.0	7.7		11.5	7.2
	13.3	9.0		11.5	7.2
50	13.0	8.7	50	11.5	7.2
11:47	12.4	8.1		11.5	7.2
	11.8	7.5		11.8	7.5

2-25-47
98+00 SOUND EAST
DIST SOUND

12.0	7.7		13.4	9.1	
12.2	7.9		14.3	10.0	
17+00	12.0	7.7	19+00	14.2	9.9
11:51	11.7	7.3		14.5	10.2
	11.4	7.1	4.3	14.5	10.1
	11.1	6.8	4.4	14.5	10.1
	11.0	6.7		14.3	10.0
50	10.8	6.5	50	14.3	10.0
	10.5	6.2		14.3	10.0
	10.2	6.9		13.7	9.3
11:57	10.2	5.9	11:57	12.4	8.0
	10.8	6.5	4.4	7.0	2.6
18+00	11.2	6.9	20+00	3.2	+ 1.2
	11.2	6.9			
	11.2	6.9			
	11.5	7.2			
11:53	11.5	7.2			
50	11.8	7.5			
	12.4	8.1			
	13.0	8.7			

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2-25-47
 0+00 = SHORE B/L. SOUND EAST
 STA 97+50

PX		DIST		SOUND		DIST		SOUND	
1+65	0.0	+4.1	50	15.0	-11.0				
70	1.3	+2.8		15.5	11.4				
1:33	3.0	+1.1		15.6	11.5				
	4.2	-0.1		15.1	11.0				
2+00	4.7	0.6		14.8	10.8				
	5.5	1.4	4+00	14.8	10.8				
	6.5	2.4		14.1	10.1				
(4.1)	7.0	2.9	(4.0)	13.5	9.5				
	7.9	3.8		13.0	9.0				
50	8.3	4.2	1:37	13.1	9.1				
	11.0	6.9	50	13.3	9.3				
	13.0	8.9		13.1	9.1				
	13.5	9.1		13.4	9.4				
	13.5	9.1	(4.0)	13.1	9.1				
3+00	13.5	9.1		13.0	9.0				
	13.8	9.7	5+00	13.2	9.2				
	13.8	9.7		13.6	9.6				
1:35	14.0	9.9		14.1	10.1				
	14.4	10.3		13.8	9.8				

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 97+50 SOUND EAST 24

DIST		SOUND		DIST		SOUND	
	14.0	-10.0		14.7	-10.7		
1:38	50	13.6	9.6	15.2	11.2		
	13.5	9.5	50	15.5	11.5		
	13.5	9.5	11.41	16.0	12.0		
	13.5	9.5		15.8	11.8		
	13.1	9.1		16.0	12.0		
6+00	13.0	9.0		16.2	12.2		
	13.0	}	8+00	16.4	12.4		
(4.0)	13.0	}		16.4	12.4		
	13.2	9.2		15.0	11.0		
	13.2	9.2	(4.0)	13.5	9.5		
50	13.2	9.2		13.1	9.1		
	13.3	9.3	50	13.0	9.0		
	13.5	9.5		13.5	9.5		
	13.5	}	1:43	12.7	8.7		
	13.5	}		10.3	6.3		
7+00	13.6	9.6		10.3	6.3		
	14.2	10.2	9+00	10.3	6.3		
	14.0	10.0		10.3	6.3		

2-26-47 97+50 2-25-47

DIST SOUND

DIST SOUND

9+20 10.0 -6.0

10.0 -6.0

9.7 5.7

10.0 6.0

10.2 6.2

9.7 5.7

50 10.0 6.0

50 9.3 5.3

10.0 }

9.4 5.4

10.0 }

148 9.5 5.5

10.5 6.5

9.8 5.8

(4.0) 11.4 7.4

10.0 6.0

10+00 11.8 7.8

12+00 9.8 5.8

11.8 7.8

10.3 6.3

11.7 7.7

10.8 6.8

11.5 7.5

(4.0) 10.5 6.5

11.46 11.5 7.5

10.5 6.5

50 11.5 7.5

50 11.1 7.1

12.0 8.0

11.1 7.1

11.4 7.4

11.0 7.0

11.0 7.0

10.4 7.4

10.5 6.5

10.2 7.2

11+00 10.2 6.2

13+00 10.2 7.2

10.0 6.0

2-25-47

0+00 = W. SHORE B/L SOUND EAST 25

PX. STA. 97+00

DIST SOUND

DIST SOUND

1+75 0.0 +3.8 50 13.3 - 9.5

80 1.3 +2.5 2:07 13.0 9.2

2:03 3.0 +0.8 12.1 8.3

2+00 4.7 -0.9 10.0 6.2

6.6 -2.8 8.5 4.7

7.8 -4.0 4+00 11.0 7.2

(3.8) 8.2 -4.4 (3.8) 11.8 8.0

9.3 -5.5 11.5 7.7

50 11.0 7.2 11.5 7.7

13.0 9.2 2:08 12.0 8.2

2:05 13.0 9.2 50 12.0 8.2

13.4 9.6 12.4 8.6

13.2 9.4 12.0 8.2

2+00 13.8 10.0 (3.8) 11.5 7.7

13.5 9.7 11.4 7.6

14.0 10.2 5+00 12.5 8.7

13.7 9.9 13.5 9.7

13.5 9.7 13.5 9.7

2-25-47
 STA. 97+00 SOUND EAST

DIST	SOUND		DIST	SOUND
5+30	13.1	-9.3	14.0	-10.2
2:10	13.0	9.2	13.0	9.2
50	13.0	9.2	3.8	13.2
	13.1	9.3	50	13.0
	13.3	9.5		13.0
	13.3	}		13.0
	13.3	}	2:14	12.5
6+00	13.5	9.7		10.3
	13.1	9.3	8+00	10.7
3.8	12.7	8.9		10.3
	13.0	9.2		10.5
	13.0	9.2	3.7	10.3
2:12	50	13.3	9.5	10.1
	13.8	10.0	50	10.4
	14.0	10.2		10.4
	14.2	10.4		11.2
	14.2	}		11.4
7+00	14.2	}		11.5
	14.4	10.6	9+00	11.5

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 STA. 97+00 SOUND EAST 26

DIST	SOUND		DIST	SOUND
2:16	11.8	-8.1	11+00	10.1
	12.0	8.3		10.0
	11.5	7.8		11.1
	11.3	7.6		14.3
50	11.5	7.8		14.4
	11.5	7.8	50	14.0
	10.0	6.3		13.0
	11.0	7.3		11.8
	11.0	}	3.7	11.0
	11.0	}		10.8
	10.8	7.1	12+00	11.0
	10.1	6.4	2:21	10.8
	10.1	}		10.5
2:18	10.1	}		10.3
50	10.1	}		10.1
	10.1	}	50	10.1
	10.1	}		10.1
	10.1	}		10.5
	10.1	}		10.1
	10.2	6.5		9.5
			13+00	7.5

2-25-47

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

P.X.

STA 96+50

DIST SOUND		DIST SOUND	
1+78	0.0 +3.6	50	8.3 -47
80	0.8 +2.8		7.8 42
2:33 90	4.3 -0.7		7.0 34
2+00	4.8 -1.2	(3.6)	7.1 35
	5.4 -1.8	2:37	6.7 31
	7.0 -3.4	4+00	6.4 28
(3.6)	7.7 -4.1		6.5 29
	8.0 4.4		7.0 34
50	8.2 4.6		6.5 29
	8.2 {		8.0 44
	8.2 {	50	7.5 39
	8.2 {		7.0 35
2:35	8.2 {	(3.5)	6.5 30
3+00	8.3 4.7		6.8 33
	8.3 {		6.8 33
	8.3 {	5+00	7.5 40
	8.2 4.6		10.6 71
	8.2 {		11.2 71

2-25-47

STA 96+50 SOUND EAST

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DIST SOUND DIST SOUND

12.5 - 9.0	2:42	10.7	- 7.2
14.0 10.5		10.7	}
50 15.0 11.5		10.7	
14.4 10.9	50	10.7	
14.0 10.5		11.1	7.6
5.40 13.6 10.1		11.4	7.9
13.3 9.8		11.1	7.6
6+00 13.1 9.6	(3.5)	11.1	7.6
14.0 10.5	8+00	10.5	7.0
13.2 9.7		10.5	}
(3.5) 10.5 7.0		10.5	
9.8 6.3	2:44	10.8	7.3
50 9.5 6.0		10.5	7.0
9.4 5.9	50	10.7	7.2
9.5 6.0		11.0	7.5
9.8 6.3		11.0	}
10.0 6.5		11.0	
7+00 10.5 7.0		11.0	}
10.5 ?	9+00	11.0	

2-25-47
STA 96+50 SOUND EAST

DIST	SOUND		DIST	SOUND
9+10	11.0	-7.5	11+00	12.4 -9.0
	11.4	-7.9		12.5 9.1
	10.5	7.0		12.8 9.4
2:46	10.5	}		13.0 9.6
50	10.5			13.0 9.6
	10.0	6.5	50	12.6 9.2
	12.2	8.7		12.0 9.0
	13.8	10.3	2:50	11.1 7.7
	13.4	9.9		10.1 6.7
10+00	13.0	9.5	<u>3.4</u>	10.0 6.5
	12.4	8.9	12+00	9.0 5.5
<u>3.5</u>	12.4	8.9		7.1 3.7
	12.1	8.6		5.2 1.8
	12.0	8.5		2.5 +0.8
50	11.8	8.3		1.6 +1.1
2:48	11.4	7.9	4:7	0.0 +3.4
<u>3.4</u>	11.4	7.9		
	11.3	7.8		
	11.7	8.2		

2-25-47
0+00 = W. SHORE B/L SOUND EAST. ²⁸

P.X. STA. 96+00

DIST	SOUND		DIST	SOUND
1+66	0.0	+3.3		7.0 -3.7
3:03	1.4	+1.9	50	7.1 3.8
	2.8	+0.5		6.1 2.8
	3.8	-0.5		6.5 3.2
2+00	5.0	-1.7	<u>3.3</u>	6.4 3.1
	6.0	2.7		6.1 2.8
<u>3.3</u>	6.1	2.8	4+00	6.1 2.8
	6.5	3.2	3:08	5.8 2.5
	6.8	3.5		5.8 2.5
50	7.2	3.9		5.8 2.5
	6.8	3.5		6.0 2.7
	7.1	3.8	50	6.0 {
	7.4	4.1	<u>3.2</u>	6.0 }
	7.4	4.1		5.0 1.8
3+00	7.2	3.9		5.5 2.3
3:06	7.0	3.7		5.6 2.4
	7.0	}	5+00	5.4 2.2
	7.0			5.5 2.3

2-25-47
96400 SOUND EAST

DIST SOUND

5.4 - 2.2

3:10 5.5 2.3

6.1 2.9

50 6.5 3.3

6.8 3.6

7.0 3.8

3.2 7.4 4.2

7.1 3.9

6+00 7.4 4.2

7.5 4.3

7.2 4.0

7.1 3.9

7.5 4.3

50 7.6 4.4

7.8 4.6

7.8 4.6

3:13 8.5 5.3

10.0 6.8

7+00 10.6 7.4

DIST SOUND

11.0 - 7.9

11.3 8.1

11.2 8.0

11.0 7.9

50 10.5 7.5

10.5 7.3

11.2 8.0

11.8 8.6

3:15 11.6 8.4

8+00 11.0 7.9

10.0 6.9

9.7 6.5

9.7 6.5

10.7 7.5

50 13.0 9.8

13.8 10.6

14.0 10.9

14.0 10.8

13.0 9.8

96400 2-25-47 SOUND EAST 29
DIST SOUND

DIST SOUND

9+00 11.2 - 8.0

3:17 10.8 7.6

10.9 7.6

11.5 8.3

12.5 9.3

50 13.0 9.8

12.8 9.6

12.3 9.1

3:2 12.3 9.1

10+00 11.5 8.3

11.1 7.9

11.1 7.9

3:19 11.5 8.3

12.3 9.2

50 12.3 9.2

3:1 12.3 9.2

11.8 8.7

11.1 8.0

11.0 7.9

11+00 11.0 - 7.9

10.7 7.6

3:21 10.5 7.4

8.5 5.4

3:1 6.1 3.0

50 4.3 1.2

2.4 + 0.7

0.0 + 3.1

V

2-26-47

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

P.X.

STA 95+50

DIST SOUND DIST SOUND

1467 00 +2.1 4.7 -2.6

0.6 +1.5 50 4.3 -2.2

3.0 -0.9 5.3 -2.2

8:44 4.4 -2.3 5.0 -2.2

2+00 5.0 -2.9 4.4 2.2

5.1 -3.0 8:46 4.0 1.9

(2.1) 5.4 -3.3 4+00 4.5 2.4

6.0 -3.9 4.5 2.4

6.0 4.4 2.5

50 6.0 (2.1) 4.6 2.5

6.0 4.8 2.7

6.0 50 5.0 -2.9

6.0 5.0

6.0 5.0

3+00 6.0 4.4 -2.3

6.1 -4.0 4.3 -2.2

6.0 -3.9 5+00 4.8 2.7

4.5 -2.4 4.8 -2.7

95+50

SOUND EAST

2-26-47

30

DIST

SOUND

DIST

SOUND

4.8 -2.6

9.5 -7.3

4.4 -2.2 8:51 9.7 -7.5

3.8 1.6 10.1 7.9

50 4.1 1.9 50 10.0 7.8

3.5 1.3 10.0 -7.8

4.3 2.1 10.8 -8.6

(2.2) 4.3 2.1 11.3 -9.1

8:49 4.4 2.2 11.1 -8.9

6+00 4.6 2.4 8+00 11.0 -8.8

4.6 -2.4 11.0

5.1 -2.9 (2.2) 11.0

4.6 2.4 11.0

5.5 -3.3 11.0

50 5.5 3.3 50 11.0

6.0 -3.6 8:53 11.4 -9.2

6.0 3.8 11.0 -8.8

5.8 3.6 11.0 8.8

6.5 -4.3 10.7 -8.5

8:00 8.3 -6.1 9+00 10.4 -8.2

9.4 -7.2 10.4 -8.2

DIST	95+50 SOUND	EAST
9+20	10.0	-7.8
	9.8	7.6
	9.8	7.6
50	10.4	8.2
	10.4	8.2
(2.2)	10.0	-7.8
8:55	10.2	8.0
	9.8	7.6
10+00	9.5	-7.3
	10.1	7.9
	11.0	8.8
	11.5	9.3
	11.3	9.1
50	10.3	8.1
	9.5	-7.3
	8.1	-5.9
	6.2	-4.0
8:57	3.5	-1.3
11+00	2.4	-0.2
	1.0	+1.2

2-26-47
0+00 = W. SHORE B/L. SOUND EAST 31
STA. 95+00

P.X.	DIST	SOUND	DIST	SOUND
	1+50	0.0 +2.2	4.4	2.2
	3:05	3.5 -1.3	50	4.5 2.3
		5.0 -2.8		4.5 2.3
		5.1 2.9		5.0 2.8
		5.1 2.9		5.4 3.2
	2+00	5.5 3.3		5.5 3.3
		5.4 3.2	4+00	5.8 3.6
	(2.2)	5.4 3.2	(2.2)	6.0 3.8
		5.1 2.9		6.0 {
		5.1 2.9	9:10	6.0 }
	50	5.2 3.0		6.0 }
		5.4 3.2	50	5.5 3.3
		5.1 2.9		5.5 3.3
		5.4 3.2		5.6 3.4
		5.1 2.9		5.5 3.3
	3+00	4.0 1.8		5.4 3.2
		3.5 1.3	5+00	5.4 3.2
	9:08	4.0 1.8		5.2 3.0
		4.3 2.1		5.0 2.8

2-26-47

STA 95+00 SOUND EAST

DIST	SOUND		DIST.	SOUND	
5+30	4.7	-2.5		8.4	-6.2
9:12	4.8	2.6		8.4	6.2
50	4.4	2.2		9.1	6.9
	4.4	}	50	12.1	9.9
(2.2)	4.4		9:16	11.8	9.6
	5.4	3.2		13.0	10.8
	5.5	3.3	(2.2)	12.5	10.3
6+00	5.4	3.2		12.0	9.8
	5.4	}	8+00	11.5	9.3
	5.4			11.1	8.9
	5.3	3.1		11.0	8.8
9:14	5.5	3.3		10.8	8.6
50	6.0	3.8		10.1	7.9
	6.0	3.8	50	10.1	7.9
(2.2)	7.1	4.9		10.0	7.8
	6.6	4.4	9:18	9.6	7.3
	7.1	4.9		9.4	7.1
7+00	8.0	5.8	(2.3)	9.2	6.9
	8.3	6.1	9+00	9.5	7.2

2-26-47

STA 95+00 SOUND EAST

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DIST	SOUND		DIST	SOUND	
	10.8	-8.5			
	10.5	8.2			
	11.0	8.7			
	10.4	8.1			
50	10.4	8.1			
	10.2	7.9			
	10.0	7.7			
9:20	10.3	8.0			
	10.3	8.0			
10+00	11.0	8.7			
	11.8	9.5			
(2.3)	10.2	7.9			
	8.0	5.7			
	4.4	2.1			
50	2.8	0.5			
	2.0	+0.3			
70	0.8	+1.5			

2-26-47
 0+00 = W. SHORE B/L SOUND EAST
 STA 94+50

P.X.

DIST	SOUND	DIST.	SOUND
1+34	0.0 + 2.4	4.8	-2.4
	0.4 + 2.0	5.1	-2.7
50	0.8 + 1.6	5.5	-3.0
9:30	1.2 + 1.2	50 5.5	-3.0
	1.5 + 0.9	5.6	-3.0
(2.4)	2.8 - 0.4	(2.9) 5.8	-3.0
	2.8 - 0.4	5.7	-3.0
2+00	3.0 - 0.6	5.9	-3.0
	3.5 - 1.1	4+00 6.0	-3.0
	3.0 - 0.6	6.0	-3.0
	3.0	6.0	-3.0
	3.0	(2.4) 6.0	-3.0
50	3.0	6.0	-3.0
	3.0	50 6.0	-3.0
	3.0	6.0	-3.0
	2.7 - 0.3	9:36 6.0	-3.0
	2.8 - 0.4	5.6	-3.0
3+00	3.5 - 1.1	5.5	-3.0
9:34	4.3 - 1.9	5+00 5.5	-3.0

2-26-47
 STA 94+50 SOUND EAST.

33

DIST	SOUND	DIST.	SOUND
5.5	-3.1	7+00 8.5	-6.1
5.2	-2.8	9.5	-7.1
5.2	-2.8	10.0	-7.6
5.2	-2.8	10.5	-8.1
50 5.2	-2.8	10.5	-8.1
5.0	-2.6	50 10.4	-8.0
5.2	-2.8	11.4	-9.0
5.0	-2.6	11.8	-9.4
(2.4) 5.0		11.5	-9.1
6+00 5.0		11.0	-8.6
5.0		8+00 10.7	-8.3
9:39 5.0		9:42 10.0	-7.6
5.5	-3.1	10.3	-7.9
6.3	-3.9	10.3	-7.9
50 6.2	-3.8	(2.4) 10.3	-7.9
6.0	-3.6	50 10.0	-7.6
6.4	-4.0	9.7	-7.3
7.0	-4.6	9.4	-7.0
8.5	-6.1	9.6	-7.2

2-26-47
94+50 SOUND EAST

DIST	SOUND	
8+90	10.2	-7.8
9+00	11.4	-9.0
	11.0	-8.6
	10.0	-7.6
	10.0	-7.6
9:44	10.0	-7.6
50	10.2	-7.8
	10.5	-8.1
	10.8	-8.4
(2.4)	10.5	-8.1
	10.4	-8.0
10+00	9.7	-7.3
	6.0	-3.6
	2.7	-0.3
	1.3	+1.1
40	0.0	+2.4

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0+00 = W. SHORE B/L SOUND EAST 34

P.X. STA. 94+00

DIST	SOUND		DIST	SOUND		
1+10	0.0	+2.5		3.5	-1.0	
	1.0	+1.5	3+00	4.5	2.0	
9:54	2.0	+0.5	9:57	5.0	2.5	
2.4	+0.1			5.0	2.5	
50	3.0	-0.5	(2.5)	5.5	3.0	
	3.1	-0.6		5.5	}	
(2.5)	3.5	1.0	50	5.5		
	3.5	1.0	9:58	5.5		
	3.7	1.2		5.5		
2+00	3.5	1.0	(2.6)	5.5		
	4.0	1.5		5.5		
	3.8	1.3	4+00	5.5		
	3.2	0.7		5.8		3.3
	3.3	0.8		5.8		3.3
50	3.3	0.8		5.3		2.8
	3.5	1.0		5.0	2.4	
	3.5	}	50	4.7	2.1	
	3.5			4.7	2.1	

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STA 94+00 SOUND EAST.

DIST	SOUND		DIST	SOUND	
4+70	4.5	-1.9	10:03	7.5	-4.9
	5.2	2.6		7.0	4.4
10:00	5.5	2.9		7.0	4.4
5+00	5.0	2.4		8.0	5.4
	5.0	2.4	7+00	8.7	6.1
	5.5	2.9		8.7	6.1
(2.6)	5.8	3.2	(2.6)	8.5	5.9
	5.5	2.9		8.5	5.9
50	5.5	2.9		8.8	6.2
	5.5	}	50	9.0	6.4
	5.5			9.5	6.9
	5.5			11.1	8.5
10:02	5.5			11.0	8.4
6+00	5.8	3.2		10.7	8.1
	5.8	}	8+00	10.2	7.6
	5.8			10.2	7.6
	6.0	3.4		10.0	7.4
	6.3	3.7		10.0	}
50	7.3	4.7		10.0	

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STA 94+00 SOUND EAST.

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DIST	SOUND		DIST	SOUND	
50	9.8	-7.2			
10:06	9.5	6.9			
	9.5	}			
	9.5				
	10.3	7.7			
9+00	10.3	7.7			
	10.0	7.4			
	10.0	7.4			
	10.2	7.6			
(2.6)	10.0	7.4			
50	10.0	7.4			
	9.8	7.2			
	9.2	6.6			
	7.0	4.4			
10:08	3.0	0.4			
10+00	2.3	+0.3			
	1.3	+1.3			
20	0.0	+2.6			

2-26-47

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

P.X.

STA 101+00

DIST.	SOUND		DIST	SOUND
1+12	0.0	+2.7		11.1 - 8.4
	0.3	+2.4	3+00	11.3 8.6
10:21	0.7	+2.0		11.5 8.8
	2.0	+0.7	10:24	12.0 9.3
50	3.0	-0.3		12.1 9.4
	5.1	-2.4		12.0 9.3
(2.7)	6.0	3.3	50	12.3 9.6
	6.8	4.1	(2.7)	12.5 9.9
	7.5	4.8		12.8 10.1
2+00	8.8	6.1		12.8 10.1
	10.0	7.3		12.5 9.9
	10.8	8.1	4+00	12.5
	11.0	8.3		12.5
	11.3	8.6		12.0 9.3
50	12.0	9.3		11.5 8.9
	12.0	9.3	10:26	11.2 8.5
	11.7	9.0	50	11.2
	11.5	8.8		11.2

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STA 101+00 SOUND EAST

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DIST	SOUND		DIST	SOUND
	11.2	-8.5		11.5 -8.7
	11.2	8.5		11.5
	11.5	8.8		11.5
5+00	11.5		10:30	11.5
	11.5		7+00	12.1 9.3
	11.5			11.5 8.7
(2.7)	12.0	9.3		11.5
	12.0			11.5
50	12.0		(2.8)	11.5
	11.5	8.8	50	11.5
10:28	11.2	8.5		11.5
	11.2	8.4		11.5
(2.8)	11.2	8.4		11.5
6+00	11.4	8.6	10:32	11.5
	11.4		8+00	11.5
	11.4			11.7 8.9
	11.4			12.0 9.2
	11.5	8.7		12.3 9.5
50	11.5			12.3 9.5

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STA 101+00 SOUND EAST

DIST	SOUND		DIST	SOUND	
8+50	12.0	-9.2	10:36	11.3	-8.5
	12.0	9.2	50	11.3	
	12.0	9.2		11.0	8.2
	12.0	9.2		11.0	
10:34	11.5	8.7		11.0	
9+00	11.0	8.2		11.0	
	11.2	8.4	11+00	11.4	8.6
(2.8)	11.3	8.5		11.6	8.8
	11.3	8.5		11.4	8.6
	10.8	8.0		11.0	8.2
50	11.3	8.5	(2.8)	10.8	8.0
	11.5	8.7	50	11.0	8.2
	11.7	8.9		10.8	8.0
	11.7	8.9		11.4	8.6
	11.5	8.7		11.5	8.7
10+00	11.5	8.7	10:40	11.0	8.2
	12.0	9.2	12+00	10.8	8.0
	12.0	9.2		10.5	7.7
	11.5	8.7		10.8	8.0

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STA 101+00 SOUND EAST

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DIST	SOUND		DIST.	SOUND	
	11.3	-8.5			
	12.0	9.2			
50	12.5	9.7			
	14.7	11.9			
(2.8)	15.7	12.9			
	16.5	13.7			
	17.2	14.4			
13+00	16.5	13.7			
	16.3	13.5			
10:43	15.0	12.2			
	12.0	9.2			
(2.9)	11.0	8.2			
50	12.2	9.3			
	11.8	8.9			
10:44	9.5	6.6			
	8.0	5.1			
14+00					

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STA 98+00 SOUND EAST

0+00 = W SHORE BTL

P.X.	SOUND	DIST	SOUND	DIST	SOUND
8+50	12.4	10.4	11.7	9.7	
10:25	12.4	10.4	11.5	9.5	
	12.6	10.6	+50 11.5	9.5	
(2.0)	12.5	10.5	11.7	9.7	
	12.3	10.3	11.5	9.5	+50
9+00	12.3	10.3	11.5	9.5	
	12.6	10.6	11.6	9.6	
	12.6	10.6	11+00 11.6	9.6	
	12.3	10.3	11.5	9.5	
	12.1	10.1	(2.0) 11.7	9.7	13+00
+50	12.0	10.0	10:30 11.5	9.5	
	12.0	}	11.7	9.7	(2.0)
	12.0	}	+50 11.5	9.5	
	12.3	10.3	11.5	9.5	10:35
	12.1	10.1	11.7	9.7	+50
10+00	12.0	10.0	11.6	9.6	
	11.8	9.8	11.5	9.5	
	11.7	9.7	12+00 10.0	8.0	

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STA 98+00 SOUND EAST 38

DIST	SOUND	DIST	SOUND
8.1	-6.1	-11.7	9.7
8.0	6.0	14+00 12.0	10.0
8.0	6.0	12.0	10.0
8.1	6.1	12.0	10.0
+50 7.8	5.8	11.7	9.7
7.5	5.5	10.4	8.4
7.3	5.3	+50 9.0	7.0
7.6	5.6	8.5	6.5
7.6	5.6	9.5	7.5
13+00 10.2	8.2	9.0	7.0
11.4	9.4	9.1	7.1
(2.0) 11.2	9.2	15+00 9.4	7.4
11.5	9.5	9.8	7.8
10:35 11.5	}	10.1	8.1
+50 11.5	}	10.1	8.1
11.5	}	9.3	7.3
11.5	}	+50 9.0	7.0
11.8	9.8	8.8	6.8

2-28-47
STA 98+00 SOUND

DIST	SOUND		DIST	SOUND
	8.8	-6.8	+50	8.5 -6.6
	9.0	7.0		8.3 6.4
	9.0	}		8.3 6.4
16+00	9.0			8.2 6.3
	9.0			8.2 6.3
	9.0		18+00	8.0 6.1
(2.0)	9.0			8.0
	9.2	7.2		8.0
+50	9.1	7.1		8.3 6.4
	9.2	7.2		8.4 6.5
	9.4	7.4	+50	9.0 7.1
10:40	9.4	}		9.0 7.1
	-			10.0 8.1
17+00	9.4			10.5 8.6
	9.2	7.2		11.0 9.1
(1.9)	9.0	7.0	19+00	11.0
	9.0	}		11.0
	9.0			11.0

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STA 98+00 SOUND EAST 39

DIST	SOUND		DIST	SOUND
	11.0	-9.1		
	12.0	10.1		
	12.3	10.4	+50	
	12.5	10.6		
	12.2	10.3	19:45	
	11.0	9.1		
	10.0	8.1	(1.9)	
	5.0	3.1	20:00	
	1.5	+0.4		

P.X 2-28-47
STA 99+00 SOUND EAST

DIST	SOUND		DIST	SOUND	
10+50	11.5	-10.0	11:25	11.4	-9.9
11:20	12.0	10.5		11.5	10.0
	12.5	11.0	+50	11.5	10.0
(1.5)	12.1	10.6		11.8	10.3
	12.0	10.5		12.0	10.5
11+00	12.0	}	(1.5)	12.0	10.5
	12.0			11.6	10.1
	11.8	10.3	13+00	12.0	10.5
	11.2	9.7		12.0	10.5
	11.5	10.0		11.3	9.9
+50	11.5	10.0		11.8	10.3
	11.6	10.1		11.5	10.0
	11.8	10.3	+50	12.1	10.6
	11.6	10.1		12.0	10.5
	11.4	9.9		12.1	10.6
12+00	11.0	9.5		12.0	10.5
	11.5	10.0		12.1	10.6
	11.4	9.9	14+00	11.8	10.3

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STA 99+00 SOUND EAST ⁴⁰

DIST	SOUND		DIST	SOUND	
	11.5	-10.0		12.1	-10.6
	11.2	9.7	16+00	12.5	11.0
	11.4	9.9		10.5	9.0
	11.3	9.8		8.0	6.5
	+50	11.5	10.0	8.5	7.0
	11.5	}		8.5	7.0
	11.5		+50	8.8	7.3
	(1.5)	11.5		9.0	7.5
	11.1	9.6	(1.5)	8.3	6.8
	11.0	9.5		8.0	6.5
	11.0	9.5		8.0	}
	11:30	11.5	10.0	17+00	
	11.8	10.3		8.0	}
	11.7	10.2		8.0	
	+50	11.5	10.0	8.0	}
	11.6	10.1		8.0	
	11.8	10.3	+50	8.2	6.7
	12.0	10.5		11.0	9.5

2-28-47

STA 99+00 SOUND EAST

DIST.	SOUND	DIST.	SOUND
	11.4 - 9.9	+50	6.0 - 4.5
	11.5 10.0		0.5 + 1.0
	11.6 10.1		
18+00	11.6 10.1		
	11.5 10.0		
11:35	11.6 10.1		
	11.8 10.3		
	12.0 10.5		
+50	12.0 10.5		
	12.3 10.8		
1.5	12.8 11.3		
	12.4 10.9		
	12.0 10.5		
19+00	11.6 10.1		
	11.4 9.9		
	11.2 9.7		
	11.8 10.3		
	11.5 10.0		

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STA 100+00 SOUND EAST⁴¹

DIST.	SOUND	DIST.	SOUND
11+00	11.5 - 8.9		12.5 - 9.9
11:10	12.0 9.4		12.1 9.5
	12.0 9.4	13+00	12.0 9.4
	11.8 9.2		12.1 9.5
	12.1 9.5		12.5 9.9
50	12.1 9.5		12.5
	12.2 9.6		12.5
2.6	12.5 9.9	50	12.8 10.2
	12.6 10.0		12.7 10.1
	12.7 10.1		12.9 10.3
12+00	12.8 10.2		12.8 10.2
	12.8 10.2		13.5 10.9
	12.8 10.2	14+00	12.8 10.2
	12.9 10.3		12.2 9.6
	12.8 10.2		12.3 9.7
+50	12.7 10.1		12.2 9.6
	12.6 10.0		12.0 9.4
	12.6	50	12.0

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STA 100+00 SOUND EAST

DIST.	SOUND	DIST	SOUND
	12.0 -9.4		12.4 -9.9
	11.8 9.2	+50	12.5 9.9
	12.0 9.4		12.8 10.2
	13.3 10.7		12.5 9.9
15+00	12.7 10.1		11.0 8.4
	13.1 10.5		10.6 8.0
	13.5 10.9	17+00	11.6 9.6
(2.6)	13.6 11.0	(2.6)	12.0 9.4
	13.5 10.9		11.8 9.2
50.	13.5 10.9		11.5 8.9
	14.3 11.7		11.5
	14.3 11.7	+50	11.5
	14.1 11.5		11.7 9.1
	14.0 11.4		11.7 9.1
16+00	13.5 10.9		11.5 8.9
	13.0 10.4		11.5
11:15	12.5 9.9	18+00	11.5
	12.3 9.7		11.5

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STA 100+00 SOUND EAST #2

DIST	SOUND	DIST	SOUND
	11.6 - 8.9	20+00	
1:20	11.7 9.0		
	11.8 9.1		
+50	11.8 9.1		
	12.0 9.3		
	12.0 9.3		
(2.7)	11.5 8.8		
	11.1 8.4		
15+00	11.0 8.3		
	11.5 8.8		
	11.5 8.8		
	10.8 8.1		
11:23	6.5 3.8		
+50	1.3 +1.4		

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P.X.

STA 101+00

SOUND EAST

DIST	SOUND	DIST	SOUND
11+00	10.5 - 8.4	15.4 - 13.8	
1:50	10.5 8.4	16.0 13.8	
	10.5 8.4	13+00 15.3 13.8	
(2.1)	10.5 8.4	15.5 13.4	
	10.3 8.2	14.7 12.8	
50	10.3 8.2	13.0 10.8	
	10.0 7.9	11.8 9.7	
	10.8 8.7	50 12.6 10.4	
	11.0 8.9	14.7 12.6	
	10.4 8.3	14.3 12.2	
12+00	10.4 8.3	14.4 12.3	
	10.0 7.9	14.6 12.5	
	10.3 8.2	14+00 14.6 12.5	
	10.8 8.7	14.3 12.2	
	11.2 9.1	14.0 11.9	
50	12.3 10.2	13.5 11.4	
	13.5 11.4	13.5 11.4	
	14.6 12.3	+50 13.4 11.3	

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STA 101+00

SOUND EAST

DIST	SOUND	DIST	SOUND
12.8 - 10.7		13.4 - 11.3	
11.8 9.7	+50	13.4 11.3	
12.3 10.2		12.0 9.9	
12.4 10.3		11.6 9.5	
12.4 10.3		11.8 9.7	
12.6 10.5		12.0 9.9	
12.6 10.5	17+00	12.0	
12.5 10.4	(2.1)	12.0	
13.0 10.9	(2.1)	12.0	
+50 12.8 10.7		12.0	
12.4 10.3		12.0	
12.0 9.9	+50	12.0	
12.0	}	11.7 9.6	
12.0		11.5 9.4	
12.1 10.0		11.4 9.3	
12.5 10.4		11.3 9.2	
12.8 10.7	18+00	11.1 9.0	
13.0 10.9	2:00	11.0 8.9	

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STA 101 + 00 SOUND EAST

DIST	SOUND	DIST	SOUND
	11.3 9.2		
	11.6 9.5		
	11.7 9.6		
+50	11.3 9.2		
	11.5 9.4		
(2.1)	12.0 9.9		
	11.5 9.4		
2:00	9.5 7.4		
19+00	1.5 +0.6		

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PX STA 102 + 00 SOUND EAST F 44

DIST	SOUND	DIST	SOUND
9+00	11.5 - 9.3	11.0	- 8.8
2:20	11.5 9.3	11.0	8.8
	12.0 9.8	11+00	11.4 9.2
(2.2)	12.0 9.8	11.6	9.4
	11.7 9.5	11.6	9.4
+50	11.7 {	11.0	8.8
	11.7 }	11.0	8.8
	11.6 9.4	50	10.7 8.5
	11.6 {	10.0	7.8
	11.6 }	10.0	7.8
10+00	11.6 }	9.8	7.6
	11.7 9.5	9.8	7.6
	11.7 {	12+00	9.7 7.5
	11.7 }	9.6	7.4
	12.0 9.8	9.7	7.5
+50	12.0 {	9.8	7.6
	12.0 }	10.0	7.8
	11.1 8.9	12+50	10.0 7.8

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STA 102+00 SOUND EAST

DIST	SOUND	DIST	SOUND
	10.3 - 8.1	11.0	8.7
2:25	10.0 7.8	+50 11.0	8.7
	12.1 9.9	2:30 11.0	
	12.8 10.6	11.0	
13+00	13.5 11.3	11.0	
	14.0 11.8	(2.3) 11.0	
	14.3 12.1	15+00 11.0	
(2.2)	14.3 12.1	11.0	
	14.1 11.9	11.0	
13:50	14.0 11.8	11.2	8.9
	13.7 11.5	11.4	9.1
	13.0 10.8	+50 11.5	9.0
	10.0 7.8	11.6	9.2
	9.1 6.9	11.5	9.2
14+00	9.2 7.0	11.8	9.5
	9.8 7.6	12.1	9.8
	10.0 7.8	16+00 12.0	9.7
	10.1 7.9	12.5	10.2

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STA 102+00 SOUND EAST ⁴⁵

DIST	SOUND	DIST	SOUND
12.5	10.2	18+00 10.3	-8.0
12.7	10.4	11.0	8.7
11.8	9.5	11.1	8.8
+50 11.0	8.7	11.5	9.2
11.0	8.7	12.0	9.7
11.0		+50 12.0	9.7
11.0		(2.3) 11.0	8.7
10.8	8.5	9.1	6.8
17+00 11.0	8.7	2:37 1.7	+0.6
11.0		1.5	+0.8
11.0		19+00	
11.0			
+50 11.1	8.8		
2:35 11.1	8.8		
10.8	8.5		
(2.3) 11.0	8.7		
10.0	7.7		

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P.X. STA 97+00 SOUND EAST

DIST	SOUND		DIST	SOUND	
7+50	13.0	-10.5	13	13.3	-10.8
3:00	13.0	10.5		13.3	
	13.1	10.6	+50	13.3	
(2.5)	13.1	10.6		13.0	10.5
	13.0	10.5		13.0	10.5
8+00	13.0		3:05	12.8	10.3
	13.0			12.8	
	13.0		10+00	12.8	
	13.0			12.8	
	13.0		(2.5)	13.0	10.5
+50	13.2	10.7		13.0	10.5
	13.0	10.5		12.9	10.4
	13.0		50	12.8	10.3
	13.0			12.8	10.3
	-			13.0	10.5
9+00	13.0			12.7	10.2
	13.2	10.7	3:05	12.8	10.3
	13.3	10.8	11+00	12.8	10.3

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STA 97+00 SOUND EAST 46 P.X.

DIST	SOUND		DIST	SOUND	
	12.8	10.2		9.0	-6.4
3:10	12.0	9.4	13+00	8.5	5.9
	13.5	10.9	3:15	8.0	5.4
	13.4	10.8		3.7	1.1
+50	13.0	10.4		4.3	1.7
	12.0	9.4	(2.6)	3.0	0.4
(2.6)	11.1	8.5	+50	-	-0.0
	10.2	7.6		2.0	+0.6
	10.5	7.9		1.0	+1.6
12+00	10.2	7.6		0.5	+2.1
	9.7	7.1	14+00	1.0	+1.6
	9.7	7.1		0.5	+2.1
	9.6	7.0		0.5	+2.1
	9.5	6.9	3:20	0.0	+2.6
+50	9.5	6.9		+0.5	+3.1
	9.8	7.2	+50	+0.8	+3.4
	9.5	6.9		0.0	+2.6
	9.0	6.4	(2.7)	-0.8	+1.8

P-X. 2-28-47
STA 97+00 SOUND EAST

DIST	SOUND		DIST	SOUND
	1.0 +1.7			
	1.5 +1.2		6.4	-37
15+00	1.8 +0.9		7.3	4.6
	2.2 +0.5		8.8	6.1
	2.5 +0.2	17+00	10.0	7.5
	2.5 +0.2	3.25	10.0	
	4.0 -1.3		10.0	
+50	5.1 -2.4	(2.7)	10.0	
	5.3 2.6			
	5.1 2.4	+50	10.0	
	5.0 2.3		10.2	7.5
	6.5 3.8		10.1	7.4
16+00	6.5 3.8		10.0	7.3
	6.8 4.1		9.8	7.1
	7.0 4.3	18+00	9.2	6.5
	7.0 4.3		9.0	6.3
	6.6 3.9		9.0	
+50	6.4 3.7		9.0	
			9.5	6.8

P-X 2-28-47
STA 97+00 SOUND EAST 47

DIST	SOUND		DIST	SOUND
+50	9.9 -7.1		2.7	+0.1
	10.1 7.3	3:30	2.2	+0.6
	11.5 8.7	(2.8)		
	12.3 9.5			
	12.1 9.3			
19+00	12.0 9.2			
	12.0 9.2			
	12.0 9.2			
	12.8 10.0			
	13.3 10.5			
50	13.1 10.3			
	13.0 10.2			
	12.7 9.9			
	11.5 8.7			
	8.5 5.7			
20+00	3.0 0.2			
	2.7 +0.1			
	3.2 -0.4			

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P.X.

STA 96+00 SOUND EAST

DIST	SOUND		DIST	SOUND
7+00	12.4	- 9.5		13.2 - 10.3
	12.5	9.6		12.0 9.1
3:50	13.0	10.1	9+00	11.0 8.1
	13.0	10.1		10.8 7.9
(2.9)	13.1	10.2		11.0 8.1
+50	13.1	}		11.0 8.1
	13.1	}		11.0 8.1
	13.0	10.1	+50	10.7 7.8
	13.2	10.3		10.5 7.6
	13.2	}		10.5 7.6
8+00	13.2	}		10.5 7.6
	13.2	}		11.0 8.1
	13.1	10.2	10+00	11.4 8.5
	13.0	10.1		11.8 8.9
	13.3	10.4		11.8 }
+50	13.1	10.2	3:55	11.8 }
	13.5	10.6	1:07	12.2 9.3
	13.8	10.9	+50	12.5 9.6

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STA 96+00 SOUND EAST 48

DIST	SOUND		DIST	SOUND
	12.0	- 9.0		
	11.5	8.5		
	11.2	8.2		
	10.8	7.8		
	11.0	8.0	11+00	11.0 8.0
	10.7	7.7		
	10.1	7.1	3:55	10.1 7.1
	9.0	6.0	(3.0)	9.0 6.0
	7.0	4.0		
	4.6	1.6	+50	4.6 1.6
	1.5	+1.5		

FINAL CROSS SECTIONS OF
PROJECT NO. 6 SHORE FILL AREA

STA	+ H.I.	-	ELEV.
STA 130+00			
T.B.M.	5.51	14.00	8.49
E 00		5.5	8.5
E 3		5.5	8.5
E 4		5.2	8.8
E 7		4.6	9.4
E 18		4.8	9.2
E 33		6.3	7.7
E 63		5.8	8.2
E 87		6.4	7.6
E 107		7.1	6.9
E 118		9.0	5.0
E 131		10.3	3.7
E 140		10.8	3.2

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NOTE: ALL DISTANCES OUT ARE

FROM W. SHORE BASELINE T. STAMPER,
A. SHERRY
M. STANLEY

129+00 CHISEL ⊕ IN S. WALK

3-11-47

Sta 129+00

Dist	+	HI	-	FI
00	5.3	13.79		8.49
E 3			5.4	8.5
E 26			5.6	8.2
E 66	P.T.		6.0	7.8
E 89			7.6	6.2
E 105			9.0	4.8
E 118			10.3	3.5

Sta 128+00

Dist	+	HI	-	FI
	5.43	13.78		8.35
E 123			10.4	3.4
E 104			8.8	5.0
E 82	P.T.		7.0	6.8
E 65			6.0	7.8
E 38			5.5	8.3
E 18			5.5	8.3
E 2			5.5	8.3

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Sta 127+00

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Dist	+	HI	-	FI
TBM	5.13	13.48		8.35
W 4			5.1	8.4
9			5.2	8.3
E 15			5.3	8.2
E 40	P.T.		5.2	8.3
E 60			5.6	7.9
E 83			6.8	6.7
E 96			8.3	5.2
E 130			10.6	2.9

Sta 126+00

Dist	+	HI	-	FI
TBM	5.03	13.43		8.35
W 1			5.1	8.3
E 20	P.T.		5.5	7.9
E 55			5.2	8.2
E 76			5.4	8.0
E 100			7.4	6.0
E 120			10.2	3.2

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Sta 125+00

Sta 119+00

Dist	+	H1	-	E1
120	5.30	13.62		8.32
E 2			5.30	8.3
E 27			4.8	8.8
E 58	PX		4.7	8.9
E 81			5.4	8.2
E 99			7.4	6.2
E 111			10.0	3.6
E				

Dist	+	H1	-	E1
	5.40	13.74		8.34
E 5			5.4	8.3
E 29			5.2	8.5
E 50	PX		5.3	8.4
E 80			5.6	8.1
E 87			6.7	7.0
E 112			7.9	5.8
E 133			9.8	3.9

Sta 120+00

Sta 118+00

Dist	+	H1	-	E1
	5.36	13.75		8.39
E 3			5.4	8.3
E 39			5.3	8.4
E 66	PX		5.6	8.1
E 87			6.7	7.0
E 107			8.0	5.7
E 126			9.8	3.9

Dist	+	H1	-	E1
	5.38	13.78		8.40
E 2			5.4	8.4
E 27			5.2	8.6
E 53	PX		5.2	8.6
E 75			5.6	8.2
E 94			6.3	7.5
E 116			8.3	5.5
E 137			9.7	4.1

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Sta 117+00

Dist	+	H1	-	Elev
	4.93	13.38		8.95
000			5.0	8.4
E 26			5.1	8.3
E 57			5.0	8.4
E 86			5.2	8.2
E 108			6.4	7.0
E 128			7.9	5.5
E 145			9.4	4.0

Sta 116+00

Dist	+	H1	-	Elev
	5.42	13.87		8.45
E 154			9.9	4.0
E 135			8.1	5.8
E 118			6.7	7.2
E 95			5.7	8.2
E 70			5.5	8.4
E 35			5.4	8.5
E 3			5.4	8.5

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Sta 115+00

Dist	+	H1	-	Elev
	5.36	13.76		8.40
E 3			5.4	8.4
E 28			5.4	8.4
E 64			5.3	8.5
E 98			5.6	8.2
E 123			6.6	7.2
E 141			8.1	5.7
E 158			9.7	4.1

Sta 114+00

Dist	+	H1	-	Elev
	5.41	13.78		8.37
E 170			9.9	3.9
E 147			7.7	6.1
E 124			6.0	7.8
E 96			5.5	8.3
E 70			5.4	8.4
E 35			5.5	8.3
E 3			5.4	8.4

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Sta 113+00

Dist	+	HI	-	Elev
	5.48	13.88		8.40
E 3			5.5	8.4
E 32			5.6	8.3
E 69			5.6	8.3
E 100		Px	5.9	8.0
E 124			6.3	7.6
E 149			8.1	5.8
E 168			9.8	4.1

Sta 112+00

Dist	+	HI	-	Elev
	5.33	13.83		8.50
E 165			9.9	3.9
E 146			8.0	5.8
E 120		Px	6.2	7.6
E 96			5.7	8.1
E 70			5.6	8.2
E 34			5.3	8.5
E 3			5.3	8.5

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Sta 111+00

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Dist	+	HI	-	Elev
	5.30	13.74		8.44
E 3			5.3	8.4
E 20			5.2	8.5
E 48		Px	5.4	8.3
E 77			5.4	8.3
E 100			5.7	8.0
E 123			6.8	6.9
E 140			8.1	5.6
E 157			9.7	4.0

Sta 110+00

Dist	+	HI	-	Elev
	5.4	13.73		8.33
E 148			9.8	3.9
E 124			7.7	6.0
E 108		Px	6.4	7.3
E 89			5.4	8.3
E 60			5.7	8.0
E 29			5.6	8.1
E 3			5.3	8.4

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Sta 109+00

Dist	+	HI	-	Elev
	5.43	13.86		8.43
E 4			5.6	8.2
E 30			5.5	8.3
E 61			5.2	8.6
E 83			5.5	8.3
E 107			6.7	7.1
E 129			8.3	5.5
E 146			9.9	4.0

Sta 108+00

Dist	+	HI	-	Elev
	4.81	13.29		8.43
E 8			4.9	8.3
E 30			4.9	8.3
E 58			4.6	8.6
E 82			4.8	8.4
E 103			5.9	7.3
E 125			7.5	5.7
E 145			9.2	4.0

X-SECTION OF DISPER CHANNEY
SOUNDING ACROSS 3-17-47

DISPOSAL AREA FOR ROCKS
SOUND NORTH

0+00 = 740' E. OF SHORE B/L

DIST SOUND DIST SOUND

0+20 12.0

12.0 2+00 34.5

12.4 34.7

50 16.3 35.2

19.0 35.0

(2.0) ~~24.8~~ 35.1

24.0 50 35.2

29.9 34.0

1+00 32.0 32.5

34.5 30.0

35.0 28.0

35.0 3+00 27.1

35.2 24.5

50 35.2 23.0

35.0 22.1

35.0 19.4

24.8 50 15.3

34.5 12.0

12.0

3-17-47
LINE # 2 X-SEC. OF DISP. CHAN 58'
SOUND NORTH

0+00 = 900' E. OF SHORE B/L *Indexed*

DIST SOUND DIST SOUND

0+50 12.0 35.3

13.5 35.5

16.1 50 35.5

21.1 34.5

22.2 33.0

1+00 23.6 31.1

26.8 30.0

29.3 3+00 31.0

30.0 32.0

30.0 31.1

50 33.5 (2.0) 29.4

35.0 26.0

35.2 50 22.0

35.0 18.1

34.8 14.0

2+00 35.0 10.5

35.0 10.7

35.0

SECTION ON
OF DISPOSAL AREA

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

DIST	SOUND	DIST	SOUND
		40	11.5
4+00	12.0	6+50	15.5
	13.2		19.1
	15.1	6+70	20.3
	15.0		22.5
	14.1		25.5
50	14.5	7+00	27.0
	16.5		28.5
	17.0 2.	(2.2)	34.0
	16.5		35.3
	16.5	40	35.3
5+00	16.5	50	34.6
	16.3		34.4
	16.5		34.4
	16.5		34.2
	16.5		34.4
50	16.4	8+00	34.5
	16.1		35.5
	16.0		35.5

CONT'D

56

DIST	SOUND	DIST	SOUND
	34.7		
	34.2		
50	34.2		
	34.3		
	34.0		
	33.0		
	30.5		
9+00	30.5		
	34.5		
	35.0		
	35.0		
	35.0		
50	34.6		
	34.5		
	34.0		
	34.6		
	34.6		
10+00	34.0		
	33.5		
	33.0		

3-19-47

FINAL CROSS SECTIONS
 OF YARDAGE PLACED ON TIERRA
 DEL-FUEGO ISLAND UNDER LUMP
 SUM CONTRACT

STA.	+	H.I.	-	ELEV.
T.B.M.	5			6.47
	5.28	11.75		

P.X.

Sta 84+00

0+00 = Range 103

W 162	9.1	2.6
W 130	8.5	3.2
W 102	8.1	3.6
W 54	6.9	4.8
W 30	6.1	5.6
00	5.2	6.5
E 24	3.8	7.9
E 54	3.7	8.0
E 92	5.6	6.1
E 132	7.2	4.5

Indexed

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T. STAMPER
 A. SHERRY
 N. STANLEY

TOP OF 2"x2" STA 90+00 RANGE 100+00

Px

Sta 84+00

3-19-47

Sta	+	H.I.	-	Elev.
E 165		11.75	8.3	3.4
E 200			8.4	3.3
E 250			8.6	3.1
E 300			8.6	3.1
E 360			8.5	3.2
E 412			9.3	2.4
E 470			8.8	2.9
E 540			8.6	3.1
E 620			8.7	3.0
E 650			9.7	2.0
E 690			10.4	1.3
E 725			10.0	1.7
E 794			8.9	2.8
E 830			8.3	3.4

6.5 5.2

4.4 7.3

3.2 8.5

Sta 86+00
R 105
Sta 86+00
R 105
Sta 87+00
R 105

3-19-47

58

STA	+	H.I.	-	ELEV.
		11.75		
			1.6	10.65
			3.6	8.15
			5.1	6.65
			6.4	5.35

Sta 88+00

R 105

Sta 89+00

R 103

Sta 82+00

R 103

Sta 81+00

R 103

PX

3-19-47

Sta 81+00

0+00 = Range 103

Sta + HI - EI

5.1 10.45 5.1 5.35

W 350

7.9 2.5

W 295

8.3 2.1

W 242

8.4 2.0

W 192

8.4 2.0

W 145

7.6 2.8

W 100

6.4 4.0

W 53

5.8 4.6

00

5.1 5.3

E 26

5.7 4.7

E 72

7.0 3.4

E 98

6.6 3.8

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Note 0+00 End Section = Sta 80+75

PX

Sta 82+00

0+00 = Range 103

Sta + HI - EI

5.1 11.75 6.65

E 146

7.7 4.0

E 104

7.6 4.1

E 72

6.7 5.0

E 50

5.8 5.9

E 25

5.0 6.7

0.0

4.0 7.7

W 35

4.8 6.9

W 72

6.3 5.4

W 110

7.5 4.2

W 152

8.8 2.9

W 195

9.4 2.3

W 268

8.6 3.1

PX

3-19-47

Sta 83+00

0+00 = Range 103

Sta	+	H1	-	E1
		5.0	13.15	8.15
W189		7.15	10.0	3.0
W150			10.6	2.5
W120			9.7	3.4
W100			8.3	4.8
W58			6.8	6.3
W22			5.4	7.7
0-0			5.0	8.1
E 26			5.6	7.5
E 70			7.0	6.1
E 96			8.0	5.1
E 140			9.2	3.9
E 180			10.0	3.1
E 238			9.3	3.8

PX.

3-19-47

60

Sta 85+00

0+00 = Range 105

Sta.	+	H1	-	E1
		5.3	10.5	5.2
W220			5.4	5.1
W180			4.6	5.9
W135			3.4	7.1
W108			2.6	7.9
W70			4.3	6.2
W36			5.6	4.9
0-0			5.3	5.2
E 50			4.9	5.6
E 110			5.4	5.1
E 165			6.0	4.5
E 230			7.6	2.9
E 180				Set Stake

Set
Stake
CONTD
Pg. 62

P.X.

3-19-47

Sta 86+00

0+00 = Range 105

Sta	+	HI	-	Elev
	5.2	12.5		7.3
E 345			9.4	3.1
E 310			8.5	4.0
E 280			8.3	4.2
E 230			8.1	4.4
E 180			6.6	5.9
E 125			5.0	7.5
E 78			4.7	7.8
E 42			4.0	8.5
E 20			4.6	7.9
0-0			5.2	7.3
W 180			8.7	3.8
W 140			7.4 →	5.1
W 132			6.3	6.2
W 103			4.7	7.8
W 75			4.8	7.7
W 48			5.0	7.5
W 27			5.2	7.3

P.X.

3-19-47

67

Sta 87+00

0+00 = Range 105

Sta	+	HI	-	EI
	4.9	13.4		8.5
W 220			10.6	2.8
W 185			9.8	3.6
W 148			8.6	4.8
W 110			7.2	6.2
W 74			6.0	7.4
W 30			5.8	7.6
0 0			4.9	8.5
E 35			3.8	9.6
E 67			4.0	9.4
E 110			6.2	7.2
E 150			7.2	6.2
E 195			8.2	5.2
E 260			9.2	4.2
E 300			9.2	4.2

SET
STAKESET
STAKE

PX

Sta 88+00

3-19-47

0+00 = Range 105

Sta	+	H1	-	Elev
	5.1	15.7		10.6
E 520			11.4	4.3
E 480			11.2	4.5
E 418			10.5	5.2
E 360			10.2	5.5
E 300			9.7	6.0
E 252			9.9	5.8
E 200			9.8	5.9
E 150			9.9	5.8
E 110			9.0	6.7
E 72			7.7	8.0
E 50			6.7	9.0
E 20			5.0	10.7
0-0			5.1	10.6
W 30			6.9	8.8
W 62			7.6	8.1
W 102			7.2	8.5

PX

Sta 88+00 Cont.

62

Sta	+	H1	-	Elev
				15.7
W 132			8.8	6.9
W 160			9.7	6.0
W 194			10.4	5.3
W 230			11.3	4.4

3-20-47
STA 85+00 SOUND WEST

0+00 = 220' W. OF R 105

	DIST	SOUND		DIST	SOUND
0+00	1.3	+5.1		4.4	+2.0
	2.2	4.2		4.5	1.9
(6.4)	2.7	3.7		4.1	2.3
	3.0	3.4		4.4	2.0
	3.1	3.3	50	4.5	1.9
50	3.2	3.2		4.5	1.9
	3.5	2.9	(6.4)	4.4	2.0
	3.8	2.6		4.4	}
	3.8	2.6		4.4	
	4.2	2.2	2+00	4.4	
4+00	4.4	2.0		4.4	
				4.4	

P+

3-20-47
STA 86+00 SOUND WEST

0+00 = 160' W. OF R 105

DIST	SOUND	DIST	SOUND
0+00	1.3 + 5.1	4.4	+2.0
	1.4 5.0	4.3	2.1
(6.4)	2.2 4.2	2+00	4.2 2.2
	2.5 3.9	4.0	2.4
	2.8 3.6	(6.4)	4.0 2.4
50	3.0 3.4	4.0	2.4
	3.0 3.4		
	3.1 3.3		
	3.2 3.2		
	3.6 2.8		
1+00	4.0 2.4		
	4.0 2.4		
	4.2 2.2		
	4.4 2.0		
	4.4 2.0		
50	4.3 2.1		
	4.3 2.1		
	4.3 2.1		

P.X.

3-20-47
STA 85+00 SOUND EAST 63

0+00 = 180' E. OF R 105

DIST	SOUND	DIST	SOUND
0+00	1.8 + 4.4	4.5	+1.6
9:03	2.4 3.8	4.5	1.6
(6.3)	2.7 3.5	2+00	4.4 1.7
	2.9 3.3	4.3	1.8
	3.1 3.1	(6.1)	4.3 1.8
50	3.3 2.9	4.1	2.0
	3.3 2.9	4.1	2.0
	3.5 2.7	50	4.0 2.1
	3.7 2.5	4.1	2.0
	3.7 2.5	4.0	2.1
1+00	3.9 2.3	3.9	2.2
	4.0 2.2	3.8	2.3
9:05	4.1 2.0	3+00	3.8 2.3
	4.3 1.8	3.9	2.2
(6.1)	4.5 1.6	9:09	3.9 2.2
50	4.5 1.6	3.9	2.2
	4.5 1.6	4.0	2.1
	4.5 1.6	50	4.1 2.0

3-20-47

P+

STA 96+00 SOUND EAST

0+00 = R 108+00

DIST	SOUND	DIST	SOUND
0+27	0.0 +6.0	2+00	2.7 +3.3
9:25	0.1 +5.9		2.7 3.3
	0.4 5.6		3.0 3.0
50	0.7 5.3	(6.0)	3.0
	1.0 5.0	9:28	3.0
(6.0)	1.3 4.7	50	3.0
	1.3 4.7		3.0
	1.3 4.7		3.0
1+00	1.5 4.5		3.0
	1.5 4.5		3.1 2.9
	2.0 4.0	3+00	3.2 2.8
	2.2 3.8		
	2.4 3.6		
50	2.4 3.6		
	2.5 3.5		
	2.7 3.3		
	2.7 3.3		
	2.7 3.3		

3-20-47

P+

STA 95+00 SOUND EAST

64

0+00 = R 108+00

DIST	SOUND	DIST	SOUND
0+41	0.0 +5.9	2.1	+3.8
50	0.1 5.8	2.2	3.7
60	0.2 5.7	2.4	3.5
70	0.2 5.7	50	2.4 3.5
80	0.6 5.3	(5.9)	2.4 3.5
90	0.6 5.3	9:38	2.4 3.5
1+00	1.0 4.9	2.5	3.4
10	0.9 5.0	2.5	3.4
9:36	1.0 4.9	3+00	2.5
(5.9)	1.2 4.7	2.5	
	1.4 4.5	2.6	3.3
50	1.4 4.5	2.9	3.0
	1.5 4.4	2.8	3.1
	1.5 4.4	50	3.0 2.9
	1.9 4.0	3.0	
	2.0 3.9	(5.9)	3.0
2+00	2.4 3.5	9:40	3.2 2.7
	2.1 3.8	3.4	2.5

PX

3-20-47

STA 94+00 SOUND EAST

0+00 = R-108+00

DIST	SOUND	DIST	SOUND
1+12	0.0 +5.8	2.0	+3.8
20	0.2 5.6	3+00	2.0
30	0.5 5.3		2.0
	0.9 4.9	9:50	2.3 3.5
40	1.0 4.8	(5.8)	2.3 3.5
9:48	1.0 4.8		2.3 3.5
(5.8)	1.1 4.7	50	2.4 3.4
	1.2 4.6		2.4 3.4
	1.3 4.5		2.5 3.3
2+00	1.3 4.5		2.5 3.3
	1.4 4.4		2.6 3.2
	1.5 4.3	4+00	2.6 3.2
	1.6 4.2		2.5 3.3
	1.7 4.1		2.5 3.3
50	1.8 4.0		
	1.9 3.9		
	1.9 3.9		
	2.0 3.8		

PX

3-20-47

STA 93+00 SOUND EAST

65

0+00 = R 108+00

DIST	SOUND	DIST	SOUND
1+70	0.0 +5.6	50	1.6 +4.0
	0.1 5.5		1.9 3.7
	0.2 5.4		2.0 3.6
2+00	0.4 5.2	(5.6)	2.0 3.6
	0.6 5.0	10:02	2.1 3.5
(5.6)	0.5 5.1	4+00	2.2 3.4
10:00	0.6 5.0		2.3 3.3
	0.7 4.9		
50	0.9 4.7		
	1.0 4.6		
	1.0 4.6		
	1.1 4.5		
	1.3 4.3		
3+00	1.2 4.4		
	1.2 4.4		
	1.4 4.2		
	1.4 4.2		
	1.5 4.1		

PX

3-20-47

STA. 92+00 SOUND EAST

0+00 = R 108+00

DIST SOUND

DIST SOUND

14.00	0.0	+ 5.5		1.5	+ 4.0
2+00	0.1	5.4		1.8	3.7
10	0.2	5.3		1.9	3.6
10:15	0.2	5.3	4+00	1.9	3.6
30	0.3	5.2		2.0	3.5
40	0.3	5.2		2.1	3.4
50	0.3	5.2		2.2	3.3
60	0.3	5.2		2.4	3.1
70	0.3	5.2	50	2.5	3.0
80	0.4	5.1		2.7	2.8
90	0.4	5.1		2.7	
3+00	0.4	5.1		2.7	
10	0.6	4.9		2.7	
	0.6	4.9	5+00	2.8	2.7
	0.7	4.8		2.8	
	0.8	4.7		2.8	
50	0.9	4.6			
	1.0	4.5			
	1.1	4.4			

PX

3-20-47

66

Sta 96+00

0+00 = Range 108

Dist	+	H1	-	Elev.
T.B.M.	3.85	20.11		16.26
T.P.	3.4	11.76	11.75	8.36
0-0				5.3
W 14				4.8

Radius

16.26

Top of

State 96+00

Station 95+00

0+00 = Range 108

Dist	+	H1	-	Elev.
T.P.	3.59	11.95		8.36
0-0				5.2
W 22				4.7

Dist	+	H1	-	Elev.
T.P.	6.80	15.16		8.36
W 56				5.7

Sta. 94+00

0+00 = Range 108

PX

Sta 94+00 cont

Dist	0+	H.I.	F	Elev
Dist	5.0	15.16	-	F
W 32			5.6	9.6
0.0			5.0	10.2
E 26			6.3	8.9
E 68			7.6	7.6

Profile

Sta. 89+00	7.1	7.1	8.1	R. 108
Sta. 90+00		4.4	10.8	R. 108
Sta 91+00		6.6	8.6	R. 108
Sta 92+00		6.5	8.7	R. 108
Sta 93+00		5.8	9.4	R. 108

PX

Sta 93+00

3-20-47

67

Dist	+	H.I.	-	Elev
0+00 - Range 108				
Dist	5.1	14.5		9.4
0			5.1	9.4
E 130			8.3	6.2
E 90			7.5	7.0
E 60			7.3	7.2
E 26			6.1	8.4

W 28			4.2	10.3
W 68			4.5	10.0
W 100			4.2	10.3

PX

Sta 92+00

0+00 = Range 108

Dist	+	HI	-	Elev
	5.1	13.8		8.7
W 198			1.9	11.9
W 178			2.8	11.0
W 108			2.3	11.5
W 66			3.8	10.0
0.0			5.1	8.7
E 46			5.9	7.9
E 90			7.0	6.8
E 150			7.5	6.3
E 206			8.4	5.4

3-20-47

PX

Sta 91+00

0+00 = Range 108

68

Dist	+	HI	-	Elev
	5.2	13.8		8.6
E 418			10.2	3.6
E 363			9.2	4.6
E 310			8.9	4.9
E 263			8.6	5.2
E 220			8.2	5.6
E 163			7.9	5.9
E 118			7.4	6.4
E 83			6.8	7.0
E 39			5.9	7.9
0.0			5.2	8.6
W 50			4.1	9.7
W 100			3.5	10.3
W 158			2.3	11.5
W 203			1.4	12.4
T.P	5.0		17.4	12.4
32				
235			3.9	13.5

PX

Sta 91+00 Cont

3-20-47

0+00 = Range 108

Dist	+	HI	-	Elev
80				
W283		17.4	4.9	12.5
116				
W319			4.4	13.0
168				
W371			3.7	13.7

Sta 90+00

0+00 = Range 108

Dist	+	HI	-	Elev
	5.1	15.9		10.8
0			5.1	10.8
E 368			12.3	3.6
E 300			11.5	4.4
E 258			11.9	4.0
E 220			10.9	5.0
E 170			9.2	6.7
E 122			7.7	8.2
E 78			6.0	9.9
E 36			4.5	11.4

PX

Sta 90+00 Cont

3-20-47

69

0+00 = Range 108

Dist	+	HI	-	Elev
W 40		15.9	4.4	11.5
W 84			4.6	11.3
W 130			4.8	11.1
W 178			5.3	10.6
W 230			5.8	10.1
W 300			6.9	9.0
W 350			6.1	9.8
W 400			6.7	9.2
W 470			7.8	8.1
W 514			3.4	12.5

PX

Sta 89+00

3-20-47

0+00 = Range 108

Dist + HI - Elev

5.2 13.3 8.1

W 633 8.8 4.5

W 600 8.7 4.6

W 542 8.4 4.9

W 517 8.0 5.3

W 456 6.1 7.2

W 380 5.1 8.2

W 315 2.5 10.8

W 276 4.0 9.3

W 225 6.2 7.1

W 178 6.3 7.0

W 128 5.8 7.5

W 90 5.3 8.0

W 40 5.3 8.0

0-0 5.2 8.1

E 40 5.2 8.1

E 80 5.9 7.4

PX

Sta 89+00

3-20-47

70

0+00 = Range 108

Sta + HI - Elev

E 130 13.3 6.8 6.5

E 172 7.9 5.4

E 236 9.0 4.3

E 260 9.9 3.4

E 330 9.6 3.7

E 370 10.5 2.8

4-15-47

LOCATION OF SEXTANT

POINTS BLUFF & CHIMNEY

STA - OBJECT SIX ANGLES MEAN

U.S.C.+G.S. BLUFF ①
BAY PT. R ②
U.S.C.+G.S. ③
COASTER ④
⑤
⑥

U.S.C.+G.S.
U.S.C.+G.S. COASTER ①
BAY PT. R ②
③
④
CHIMNEY ⑤
⑥

U.S.C.+G.S. CHIMNEY ①
COASTER R ②
U.S.C.+G.S. ③
BAY PT. ④
⑤
⑥

U.S.C.+G.S.
U.S.C.+G.S. BAY PT ①
COASTER R ②
③
BLUFF ④
⑤
⑥

CAUSEWAY BASELINE
TRAVERSE CONTD NORTH

Indexed

- ① $112^{\circ}39'00''$
- ② $225^{\circ}18'00''$
- $112^{\circ}39'00''$ MEAN

T. STAMPER
C. BARRAGAN
A. SHERRY
N. STANLEY

VISIBILITY
POOR

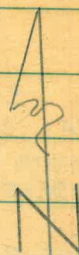
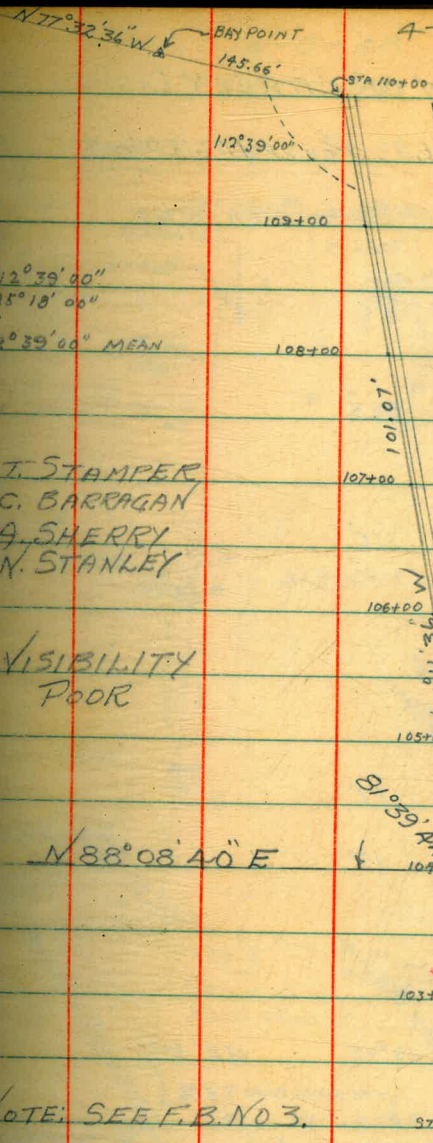
$N88^{\circ}08'40''E$

NOTE: SEE F.B. NO 3.

MISSION BAY FOR B/L
CONTINUED SOUTH

4-14-47

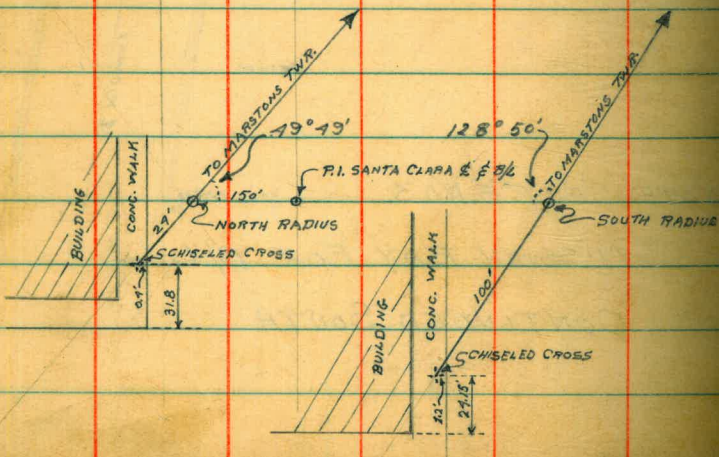
72



LOCATION OF STREET LIGHT
CIRCUIT, POLES, POWER & TELEPHONE
PULLBOXES AT SANTA CLARA POINT

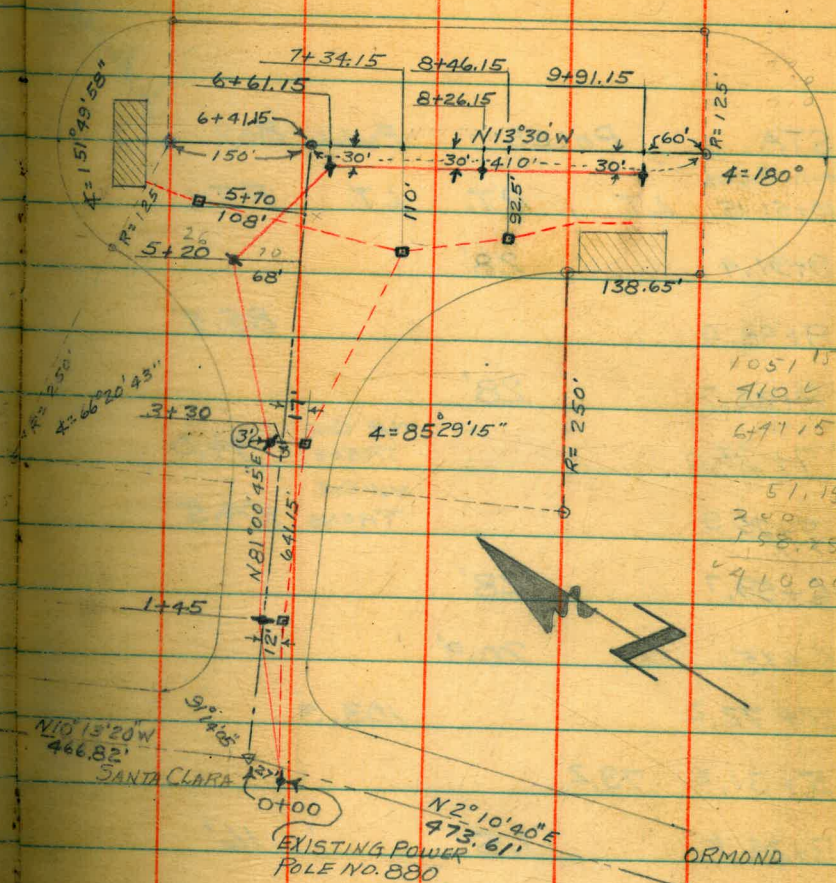
Indicated

STA	P. POLE		PULL BOX	
	LT.	RT.	LT.	RT.
9+91.15		30'		
8+46.15			92.5'	
8+26.15		30'		
7+34.15			110'	
6+61.15		30'		
5+70			108'	
5+20		68'		
3+30		3'	17'	
1+45		⊘	12'	



4-9-48
T. A. STAMPER

173



⊘ = POWER POLE
□ = PULL BOX

1051.15
710.0
647.15
51.15
200
158.25
910.00

91 14 05
10 13 20
81 00 15

AS BUILT LOCATION OF
 LIGHT POLES & PULL BOXES
 ON SANTA CLARA PT.

5 Nov. 43

(BARRIGAN
 WATSON)

74

Indeveloped

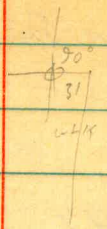
STA.	POLES		PULL BOX	
	LT	RT.	LT.	RT.
SOUTH RADIUS 10+51.15				
9+91.4		28'		
8+38.0				85.5'
8+22.7		28'		
7+33.0			NE COR TRANS	94.0'
7+22.9			NW COR TRANS	104.5'
6+59.7		28'		
6+15		20.9'		
5+72.2				103.3'
5+31.2	73.2'			
3+24.6		1.5'		16'
1+38.2		3.2'		14.8'

NOTE 140.6 TO SANTA CLARA FROM

1+38.2

PROFILE ALONG PROPOSED LOCATION
 OF PIER SANTA CLARA POINT

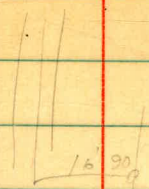
Indexed



STA	+ H.I.	-	ELEV
B.M.	0.79	16.60	15.81
0+00		4.98	15.81 - .79 ----- 16.60
+08 ⁵		5.10	TOP CURB
+08 ⁵		5.5	BTM. CURB
+12		5.8	
+13 ⁵		5.3	
+19		5.2	
+23		5.5	
+31		7.5	STAKE @ 30'
+50		9.5	
+65		11.4	
+80		12.4	
+92		13.9	

STAKE AT 0+90

PROFILE ALONG PROPOSED LOCATION
 OF PIER SANTA CLARA POINT



STA	+ H.I.	-	ELEV	
T.B.M	0.08	15.89	15.81	T. B. M. ALONG SANTA CLARA POINT 15.81 0.08 15.89
0+00		4.91		
+13		4.4		
+40		5.3		
+50		6.8		STAKE
+70		9.4		
+92		11.4		
1+00		12.3		STAKE
1+07 ⁵		12.9		

S. CLARA

17.28'

RE 0+00



$$= \frac{c}{a}$$

$$\frac{a^2}{c^2}$$

0.45

0.45

$$\frac{C}{A + B}$$

(+B)

by the
19.4 ft.
10' =
slope
th the
ollow-
= .0041.
e dist-
= 14 ft.,
8 ft.

81-11-50
 18
 99-12
 179-60
 80-48

16.24

①
 ②
 112° 39' 00
 225° 18' 00

11239
 22518
 224

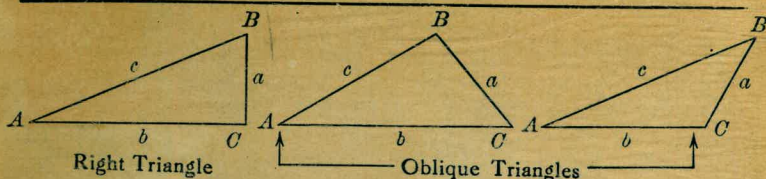
3+24:b

9491.15
 60
 1051.15

6741.15
 158.85
 8100.00



TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

Given	Required	Formulas
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

A, B, a	Required 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	$\text{area} = \frac{bc \sin A}{2}$
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 = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. 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. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ 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.