MISSION BAY

"30

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
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.

Book # 30

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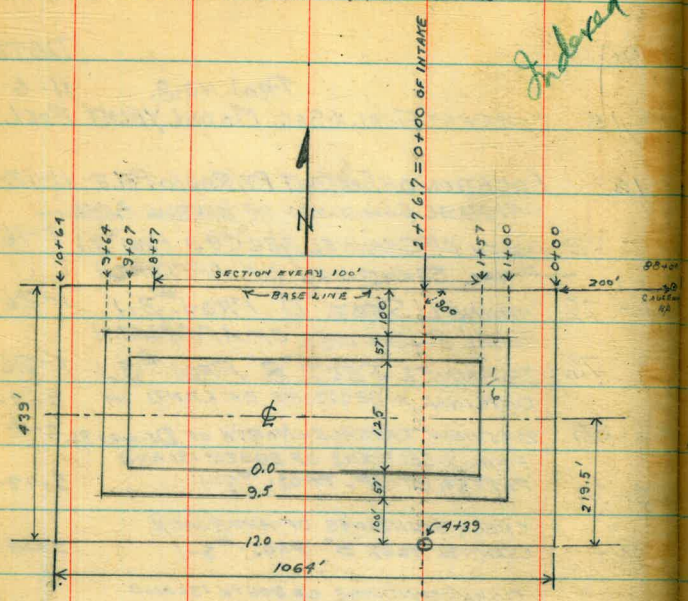
BARRAGAN SHERRY STANLEY 10-6-47

FINAL X-SECTIONS OF MODEL YACHT POOL

Indexed



81' To +6

+6 - 983' +6

BARRAGAN SHERRY STANLEY 11-6-47 (1)

STA - 1+00

0+00 = STA-1+00 on ℄ : SECT. AT 90° To ℄.

STA	+	H.I.	−	ELEV
T.B.M	5.24	16.90		11.66
N-0+30			4.8	12.1
0+00			5.1	11.8
S-0+35			5.3	11.6
S-0+77			5.5	11.4
S-1+10			6.8	10.1
S 1+32			7.2	9.7
S 1+75			7.4	9.5
S 2+19.5			7.4	9.5
S 2+53			7.6	9.3
S-3+00			7.3	9.6
S 3+97			6.2	10.7
S-3+82			5.1	11.8
S-4+12			4.6	12.3
S-4+41			4.4	12.5
S-4+80			4.2	12.7

73' W EST 1457

11-6-47

PX

STA-1+57

0+00=STA-1+57 ON B/L. SECT. AT 30° TO B/L.

STA	+	H.I.	−	ELEV	
	5.05	16.29		11.24	
T.P.			4.63	11.66	43' WEST 1+57
0+00			5.2	11.1	
S/0+26			5.2	11.1	
S/0+66			5.7	10.6	
S/0+98			7.2	9.1	
S/1+23			9.3	7.0	
S/1+45			12.2	4.1	
S/1+63			13.1	3.2	
S/1+87			13.1	3.2	
S/2+12			13.6	2.7	
S/2+45			14.0	2.3	
S/2+80			13.0	3.3	
S/2+97			12.5	3.8	
S/3+04			11.9	4.1	

STA-1+57

11-6-47

(2)

PX

STA	+	H.I.	−	ELEV
S 3+13		16.29	10.3	6.0
S-3+29			7.8	8.5
S-3+45			5.8	10.5
S-3+73			4.6	11.7
S-4+00			3.6	12.7
S 4+40			3.2	13.1
S-4+80			3.2	13.1
S-5+10			3.2	13.1
N 0+28			5.0	11.3

PX

11-6-47

0+00 = STA - 2+57 ON B/L: SECT AT 90° T. B/L

STA	+	H.I.	−	ELEV	
T.B.M	4.30	15.96		11.66	43' WEST 1+57
N-0+30			4.9	11.1	
0+00			4.9	11.1	
S-0+35			5.1	10.9	
S 0+65			5.5	10.5	
S-0+90			6.2	9.8	
S 1+15			9.1	6.9	
S 1+30			11.9	4.1	
S 3+11			12.1	3.9	
S 3+15			10.7	5.3	
S 3+30			8.5	7.5	
S 3+52			6.1	9.9	
S 3+85			3.3	12.7	
S 4+10			3.2	12.8	
S 4+39			2.6	13.4	
S 4.75			2.5	13.5	
T. P.			4.39	11.57	150' WEST 2+57

11-6-47

PROFILE ALONG ℄ OF PROPOSED INTAKE LINE TO YACHT POOL

0+00 = STA - 2+76.7 : SECT. AT 90° TO B/L.

PX (3)

STA	+	H.I.	−	ELEV	150' WEST 2+57
T.B.M	4.21	15.78		11.57	
S 3+10			11.9	3.9	
S-3+25			9.0	6.8	
S-3+51			5.8	10.0	
S-3+85			3.3	12.5	
S-4+20			2.8	13.0	
S-4+39			2.4	13.4	
S-4+85			2.2	13.6	
S 5+25			2.4	13.4	
S 5+92			5.4	10.4	
S 5+60			7.7	8.1	
S 5+65			10.0	5.8	
S 5+80 STAKE			12.2	3.6	

11-6-47

PX

STA - 3+57

0+00 = STA - 3+57 ON B/L. SECT. AT 90° TO B/L.

STA	+	H.I.	−	ELEV
T.B.M	4.44	16.01		11.57
N 0+30			4.8	11.2
0+00			5.0	11.0
S 0+23			5.1	10.9
S 0+62			5.0	11.0
S 0+87			6.3	9.7
S 1+13			8.8	7.2
S 1+30			12.0	4.0
S 3+09			12.0	4.0
S-3+22			9.5	6.5
S-3+50			6.4	9.6
S-3+82			4.1	11.9
S 4+05			3.3	12.7
S 4+40			2.6	13.4
S 4+85			1.8	14.1

150' WEST 2+57

11-6-47

PX

STA - 4+57

0+00 = STA - 4+57 ON B/L. SECT. AT 90° TO B/L.

STA	+	H.I.	−	ELEV
T.B.M	4.30	15.87		11.57
N 0+30			4.9	11.0
0+00			5.1	10.8
S 0+32			5.0	10.9
S 0+56			5.6	10.3
S 0+82			5.9	10.0
S-1+07			8.3	7.6
S-1+30			12.0	3.9
S-3+06			11.9	4.0
S-3+22			9.1	6.8
S-3+40			6.7	9.2
S-3+70			4.6	11.3
S-4+05			3.4	12.5
S-4+39			2.4	13.5
S-4+83			1.8	14.1

150' WEST 2+57

PX

11-6-47

STA - 5+57

0+00 = STA 5+57 ON B/L. SECT. AT 90° TO B/L.

STA	+	H.I.	−	ELEV	
T.B.M	4.28	15.85		11.57	150' WEST 2+57
N 0+30			5.0	10.8	
0+00			5.0	10.8	
S 0+27			5.0	10.8	
S 0+55			5.3	10.5	
S 0+82			5.9	9.9	
S 1+04			7.6	8.2	
S 1+20			9.7	6.1	
S 1+31			11.8	4.0	
S 3+03			11.9	3.9	
S 3+15			9.5	6.3	
S 3+40			7.8	8.0	
S 3+65			5.0	10.8	
S 3+95			3.7	12.1	
S 4+15			3.1	12.7	
S 4+39			2.6	13.2	
S 4+70 T.B			3.8	14.0	
			3.77	12.08	150' W 5+57

11-6-47

PX ⑤

STA - 6+57

0+00 = STA 6+57 ON B/L. SECT. AT 90° TO B/L.

STA	+	H.I.	−	ELEV	
T.B.M	3.95	16.03		12.08	150' WEST 5+57
N 0+30			4.9	11.1	
0+00			5.0	11.0	
S 0+27			4.9	11.1	
S 0+52			4.8	11.2	
S 0+77			6.0	10.0	
S 1+02			8.0	8.0	
S 1+30			12.0	4.0	
S 3+04			12.0	4.0	
S 3+20			9.4	6.6	
S 3+40			6.8	9.2	
S 3+65			5.3	10.7	
S 3+95			4.4	11.6	
S 4+11			3.5	12.5	
S 4+39			3.1	12.9	
S 4+80			2.4	13.6	

11-6-97

PX

STA - 7+57

0+00 = STA - 7+57 ON B/L; SECT. AT 90° TO B/L.

STA-	+	H.I.	-	ELEV	
T.B.M	4.34	16.42			150' W/5+57 12.08
N0+30			4.8	11.6	
0+00			5.0	11.4	
S.0+26			4.8	11.6	
S0+55			5.1	11.3	
S-0+77			6.5	9.9	
S 1+04			8.6	7.8	
S-1+30			12.4	4.0	
S-3+03			12.5	3.9	
S-3+15			11.5	4.9	
S-3+32			8.2	8.2	
S-3+50			6.5	9.9	
S-3+80			5.3	11.1	
S.4+10			4.7	11.7	
S 4+40			4.3	12.1	
S 4+85			3.8	12.6	

11-6-97

PX (6)

STA - 8+57

0+00 = STA - 8+57 ON B/L; SECT. AT 90° TO B/L.

STA-	+	H.I.	-	ELEV	
T.B.M	5.00	17.08		12.08	150' WEST 5+57
N- 0+30			5.0	12.1	
0+00			5.0	12.1	
S 0+24			5.0	12.1	
S-0+51			5.2	11.9	
S-0+77			6.7	10.4	
S- 0+97			8.3	8.8	
S-1+30			10.9	6.2	
S.1+30			13.1	4.0	
S-3+00			13.1 +0.4	4.0	
S.3+17			10.4	6.7	
S.3+45			7.9	9.2	
S-3+70			6.5	10.6	
S 4+00			5.8	11.3	
S-4+40			5.2	11.9	
S-4+82			4.6	12.5	
S-5+35			4.6	12.5	

11-6-97

PX

STA - 9+07

0+00 = STA - 9+07 ON B/L. SECT AT 90° T. B/L.

STA-	+	H.I.	-	ELEV	
T.B.M	4.61	16.69		12.08	150' WEST 5+57
N 0+30			5.0	11.7	
0+00			5.0	11.7	
S 0+25			4.7	12.0	
S 0+52			5.4	11.3	
S 0+77			6.4	10.3	
S 1+01			8.1	8.6	
S 1+20			10.1	6.6	
S 1+30			11.4	5.3	
S 3+00			12.8	3.9	
S 3+13			10.4	6.3	
S 3+35			8.0	8.7	
S 3+67			6.6	10.1	
S 3+80			5.7	11.0	
S 4+00			5.5	11.2	
S 4+40			5.5	11.2	
S 4+85				11.6	
T.P.			5.1	12.24	40' S 9+07

11-6-97

PX

(3)

STA - 9+64

0+00 = STA - 9+64 ON B/L. SECT. AT 90° T. B/L.

STA-	+	H.I.	-	ELEV	
T.B.M	4.91	17.15		12.24	40' SOUTH 9+07
N 0+30			5.3	11.8	
0+00			5.0	12.1	
S 0+26			5.4	11.7	
S 0+51			5.9	11.2	
S 0+77			5.4	11.7	
S 1+02			7.4	9.7	
S 1+32			8.0	9.1	
S 1+62			8.5	8.6	
S 1+97			9.0	8.1	
S 2+55			9.1	8.0	
S 2+95			9.0	8.1	
S 3+10			8.5	8.6	
S 3+30			7.0	10.1	
S 3+50			6.1	11.0	
S 3+77			6.2	10.9	
S 4+05			6.0	11.1	
S 4+40			5.8	11.3	
S 4+80			6.0	11.1	

PX

11-6-97

STA - 10+64

0+00 = STA - 10+64 ON B/L. SECT. AT 90° T. B/L.

STA -	+	H.I.	−	ELEV	
T.B.M	4.83	17.07		12.24	
N-0+30			4.6	12.5	
0+00			5.1	12.0	
S0+35			5.0	12.1	
S 0+70			5.5	11.6	
S 1+05			5.5	11.6	
S 1+92			5.5	11.6	
S 2+18			5.6	11.5	
S 5+25			4.7	12.4	
S 4+65			5.2	11.9	
S-4+40			5.2	11.9	
S-3+85			5.5	11.6	
S-3+30			5.8	11.3	
S-2+67			5.6	11.5	
S-2+27			5.6	11.5	
T.P.			5.56	11.51	4"x4" AT BASE OF WIND SOCK

11-6-97

PX (8)

PROFILE ALONG ℄ YACHT POOL - WEST SLOPE.

0+00 = P.I. OF WEST 9.5' LINE ℄ ℄ OF YACHT POOL

STA -	+	H.I.	−	ELEV	
T.B.M	1.68	13.19		11.51	
W 1+15			1.9	11.3	
W 0+87			1.8	11.4	
W 0+62			2.1	11.1	
W 0+43			2.6	10.6	
W 0+20			3.8	9.4	
0+00			5.1	8.1	
E 0+18			6.8	6.4	
E 0+29			8.1	5.1	
E 0+33			9.2	4.0	
T.P.	6.42	14.36	5.25	7.94	
			2.71	11.65 =	T.B.M-2+00 11.66

11-6-47

PT

PROFILE ALONG ℄ - EAST SLOPE

0+00 = P.I. OF E/95' LINE AND ℄ OF YACHT POOL

STA	+	H.I.	−	ELEV	
T.B.M	2.89	14.55		11.66	
W 0+51			10.3	4.2	
W 0+43			9.5	5.0	
W 0+30			8.1	6.4	
W 0+16			6.5	8.0	
0+00			5.2 ~~4.7~~	9.3	
E 0+09			1.7	9.8	
T.B.M			3.32	11.23 = 11.24	88+00 CAUSEWAY B/L

BARRAGAN SHERRY STANLEY

11-7-47

PT (5)

FINAL SOUNDINGS OF MODEL YACHT POOL

SOUNDINGS ALONG EAST/WEST ℄ OF POOL = 0+00 = PT. 50'W OF 95' LINE.

SOUND WEST DIST	SOUND		DIST	SOUND	
0+03	0.0	+4.0	1+60	5.3	-1.3
+10	1.4	+2.6		5.7	-1.7
	1.8	+2.3		5.4	-1.4
	3.6	+0.4		6.1	-2.1
	5.0	-1.0	2+00	6.0	-2.0
50	5.9	-1.9		6.0	-2.0
	6.1	-2.1	(4.0)	6.0	-2.0
(4.0)	6.2	-2.2		6.2	-2.2
	6.6	-2.6		6.2	-2.2
	6.8	-2.8	50	6.1	-2.1
1+00	6.5	-2.5		6.0	-2.0
	6.5	-2.5		5.7	-1.7
	6.7	-2.7		5.3	-1.3
	6.7	-2.7		5.5	-1.5
	6.0	-2.0	3+00	5.5	-1.5
1+50	5.7	-1.7	3+10	5.5	-1.5

E/W – ℄ of YACHT			POOL		11-7-17
DIST	SOUND		DIST	SOUND	
3+20	5.8	-1.8	5+00	6.7	-2.7
	5.8	-1.8		6.7	-2.7
	5.9	-1.9		6.7	-2.7
50	6.0	-2.0		6.6	-2.6
	5.8	-1.8	4.0	6.0	-2.0
4.0	6.1	-2.1	50	6.0	-2.0
	6.1	-2.1		6.1	-2.1
	6.2	-2.2		6.5	-2.5
4+00	6.2	-2.2		7.1	-3.1
	6.3	-2.3		6.1	-2.1
	6.4	-2.4	6+00	6.0	-2.0
	6.4	-2.4		5.6	-1.6
	6.4	-2.4		6.0	-2.0
50	6.1	-2.1		6.0	-2.0
	5.8	-1.8		6.7	-2.7
	6.0	-2.0	50	6.8	-2.8
	6.4	-2.4		6.5	-2.5
4+90	6.7	-2.7	6+70	6.1	-2.1

E/W – ℄ of YACHT			POOL		11-7-17
DIST	SOUND		DIST	SOUND	
6+80	5.9	-1.9			
	5.8	-1.8			
7+00	5.8	-1.8			
	5.8	-1.8			
	6.0	-2.0			
4.0	6.2	-2.2			
	6.1	-2.1			
50	6.8	-1.8			
	5.8	-1.8			
	4.0	0.0			
	1.0	+3.0			
7+83	0.0	+4.0			

PX

11-7-17

STA- 9+07

0+00 = Pt. 130' S/STA- 9+07 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+05	0.0	+4.0	1+60	5.4	-1.4
+10	2.1	+1.9	(4.0) 70	1.0	+3.0
20	5.0	-1.0	1+71	0.0	+4.0
(4.0) 30	6.0	-2.0			
40	6.4	-2.4			
0+50	6.0	-2.0			
60	6.5	-2.5			
70	6.0	-2.0			
80	5.7	-1.7			
90	5.8	-1.8			
1+00	5.5	-1.5			
10	5.4	-1.4			
20	5.1	-1.1			
30	5.2	-1.2			
40	5.6	-1.6			
1+50	5.5	-1.5			

11-7-17

(11)

PX

8+57

0+00 = Pt. 130' S/STA- 8+57 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+01	0.0	+4.0	1+60	5.5	-1.5
+10	4.0	0.0	(4.0) 70	1.0	+3.0
20	5.5	-1.5	1+72	0.0	+4.0
(4.0) 30	5.8	-1.8			
40	5.8	-1.8			
0+50	6.0	-2.0			
60	5.9	-1.9			
70	5.9	-1.9			
80	5.9	-1.9			
90	5.8	-1.8			
1+00	5.8	-1.8			
10	6.1	-2.1			
20	6.0	-2.0			
30	6.0	-2.0			
40	5.8	-1.8			
1+50	5.8	-1.8			

11-7-47

PX

7+57

0+00 = Pt. 130' S/Sta. 7+57 : Sound South at 90° to B/L.

Dist	Sound		Dist	Sound	
0+00	0.0	+4.0	1+60	5.4	-1.4
+10	5.0	-1.0	(4.0) 70	2.0	+2.0
20	6.3	-2.3	1+74	0.0	+4.0
30	6.5	-2.5			
(4.0) 40	6.8	-2.8			
0+50	7.0	-3.0			
60	7.0	-3.0			
70	6.8	-2.8			
80	7.0	-3.0			
90	6.1	-2.1			
1+00	6.0	-2.0			
10	7.0	-3.0			
20	7.0	-3.0			
30	6.8	-2.8			
40	6.7	-2.7			
1+50	6.1	-2.1			

11-7-47

(12)

PX

6+57

0+00 = Pt. 130' S/Sta. 6+57 : Sound South at 90° to B/L.

Dist	Sound		Dist	Sound	
0+00	0.0	+4.0	1+60	6.0	-2.0
10	5.0	-1.0	(4.0) 70	2.5	-2.5
20	6.1	-2.1	1+75	0.0	+4.0
(4.0) 30	6.5	-2.5			
40	6.8	-2.8			
0+50	6.9	-2.9			
60	7.0	-3.0			
70	6.8	-2.8			
80	6.8	-2.8			
90	6.5	-2.5			
1+00	6.8	-2.8			
10	7.0	-3.0			
20	7.0	-3.0			
30	7.0	-3.0			
40	6.7	-2.7			
1+50	6.2	-2.2			

PX

11-7-97

5+57

0+00 = Pt. 130' S/STA. 5+57 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+02	0.0	+4.0	1+60	5.1	-1.1
10	3.8	+0.2	(4.0) 70	1.5	+2.5
20	6.1	-2.1	1+74	0.0	+4.0
(4.0) 30	6.1	-2.1			
40	6.1	-2.1			
0+50	6.1	-2.1			
60	6.1	-2.1			
70	6.2	-2.2			
80	6.0	-2.0			
90	6.4	-2.4			
1+00	6.0	-2.0			
10	6.1	-2.1			
20	6.1	-2.1			
30	6.0	-2.0			
40	5.8	-1.8			
1+50	5.3	-1.3			

11-7-97

(13)

PX

4+57

0+00 = Pt. 130' S/STA. 4+57 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	0.0	+4.0	1+60	5.0	-1.0
10	3.7	+0.3	(4.0) 70	3.4	+0.6
20	6.0	-2.0	1+78	0.0	+4.0
(4.0) 30	6.0	-2.0			
40	6.0	-2.0			
0+50	6.2	-2.2			
60	6.0	-2.0			
70	6.0	-2.0			
80	5.9	-1.9			
90	5.6	-1.6			
1+00	5.8	-1.8			
10	5.8	-1.8			
20	5.8	-1.8			
30	5.6	-1.6			
40	5.5	-1.5			
1+50	5.2	-1.2			

11-7-47

3+57

PX

0+00 = PT. 130' S/STA. 3+57 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	0.0	+4.0	1+60	5.7	-1.7
10	4.3	-0.3	4.70	4.5	-0.5
20	6.1	-2.1	1+80	0.3	+3.7
30	6.5	-2.5	1+81	0.0	+4.0
40	6.8	-2.8			
0+50	7.2	-3.2			
60	7.2	-3.2			
70	7.0	-3.0			
80	6.7	-2.7			
90	6.0	-2.0			
1+00	6.0	-2.0			
10	6.0	-2.0			
20	6.4	-2.4			
30	6.4	-2.4			
40	6.5	-2.5			
1+50	6.3	-2.3			

11-7-47

(14)

2+57

PT

0+00 = PT. 130' S/STA. 2+57 : SOUND SOUTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+02	0.0	+4.0	1+60	6.8	-2.8
10	3.0	+1.0	4.10 20	5.5	-1.5
20	4.4	-0.4	1+80	1.2	+2.8
30	6.1	-2.1	1+82	0.0	+4.0
40	5.5	-1.5			
0+50	5.4	-1.4			
60	5.1	-1.1			
70	6.0	-2.0			
80	6.7	-2.7			
90	6.7	-2.7			
1+00	6.7	-2.7			
10	7.0	-3.0			
20	7.0	-3.0			
30	7.2	-3.2			
40	7.2	-3.2			
1+50	7.0	-3.0			

PT

℄ INTAKE (YACHT POOL) 11-7-47

SOUNDINGS ALONG ℄ OF PROPOSED INTAKE TO YACHT POOL

0+00 = PT 130' S/STA-2+76.7 : SOUND SOUTH 30° TO ℄

DIST	SOUND		DIST	SOUND	
0+01.5	0.0	+4.0	4.0		
+10	3.0	+1.0	1+60	6.4	-2.4
20	4.8	-0.8	70	5.0	-1.0
30	5.7	-1.7	80	4.4	-0.4
4.0 40	5.8	-1.8	1+81	0.0	+4.0
0+50	5.6	-1.6			
60	6.5	-2.5			
70	6.1	-2.1			
80	6.3	-2.3	130 181 311 S/STA. 2+76.7		
90	6.5	-2.5			
1+00	6.8	-2.8			
10	6.9	-2.9			
20	7.1	-3.1			
30	7.1	-3.1			
40	7.0	-3.0			
1+50	7.0	-3.0			

℄ INTAKE ("AGGIE'S COVE") 11-7-47

(15)

SOUNDINGS ALONG ℄ OF PROPOSED INTAKE TO YACHT POOL

PT

0+00 = PT. 580' S/STA-2+76.7 : SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+03	0.0	+3.0	1+60	13.0	-10.0
+10	1.0	+2.0		12.4	-9.4
3.0 20	3.0 ~~2.4~~	0.0		11.0	-8.0
30	3.8 ~~3.0~~	-0.8		10.4	-7.4
40	4.5 ~~3.5~~	-1.5	2+00	10.1	-7.1
0+50	9.0	-6.0		10.6	-7.6
60	9.6 ~~9.6~~	-6.6	3.0	10.5	-7.5
70	9.7	-6.7		10.5	-7.5
80	10.0	-7.0		10.3	-7.3
90	10.1	-7.1	50	10.7	-7.7
1+00	10.5	-7.5		11.9	-8.9
10	11.5	-8.5		11.8	-8.8
20	12.1	-9.1		12.0	-9.0
30	11.1	-8.1		12.1	-9.1
40	12.0	-9.0	3+00	12.5	-9.5
1+50	12.7	-9.7			

LOCATION OF SEXTANT

PT. R. TOWER AT MOORLAND & BAYONNE STS. CR. PT.

STA	OBJECT	SIX ANGLES	VERNIER
	RADIO TOWER	① 74°44'00"	
COASTER	R	② 149°28'00"	0°00'00"
	MARSTONS TOWER	⑥ 448°25'00"	
		AV. 74° 44' 10"	
	COASTER	① 79°45'00"	
CAUSEWAY ECC.	R	② 159°30'00"	0°00'00"
	RADIO TOWER	⑥ 478°29'00"	
		AV. 79° 44' 50"	

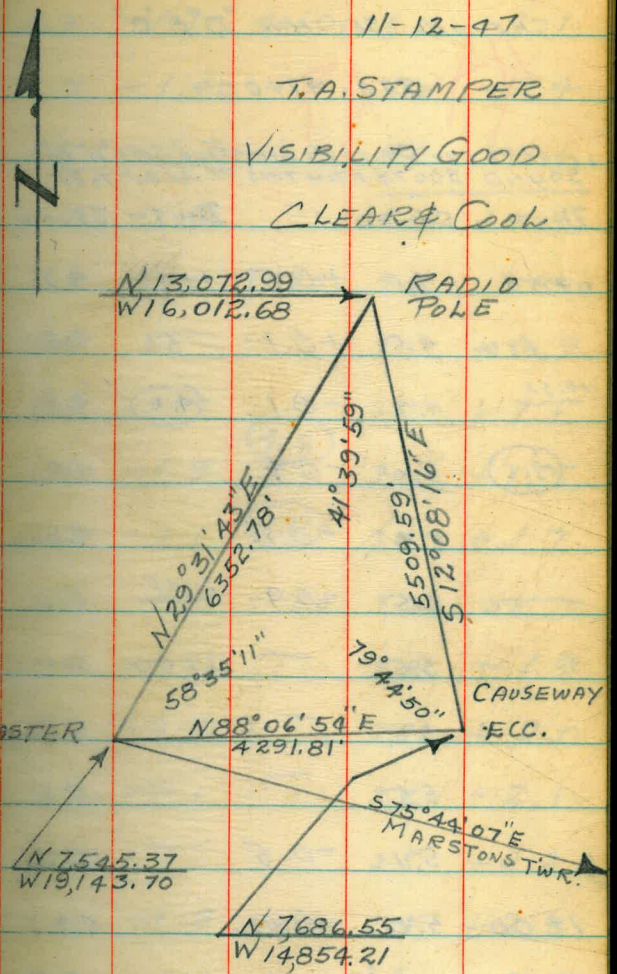
Indexed

11-12-47

T. A. STAMPER

VISIBILITY GOOD

CLEAR & COOL



ORIGINAL

BARRAGAN SEARS STANLEY

1-16-48 CLEAR CALM WARM

SOUNDINGS OF BORROW AREA SOUTH OF CHANNEL SECTION "D" & "C".

STA - 47+00

0+00 = PT. 500' SOUTH OF STA-47+00 SECT "D" B/L; SOUND SOUTH FROM THIS PT. AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	4.1	+0.5	1+40	4.9	-0.3
+10	4.5	+0.1	50	4.8	-0.2
10:52	4.7	-0.1	(4.6)	4.8	—
(4.6)	5.0	-0.4		4.8	—
	5.4	-0.8		4.8	
50	5.5	-0.9	10:55	5.1	-0.5
	5.5	—	2+00	5.1	—
	5.5	—		5.1	—
	5.5	—		5.1	—
	5.1	-0.5		5.2	-0.6
1+00	5.0	-0.4		5.3	-0.7
	5.0	—	50	5.4	-0.8
	4.9	-0.3		5.4	—
1+30	4.9	—	2+70	5.5	-0.9

Indexed

STA - 47+00

1-16-48

(17)

DIST	SOUND		DIST	SOUND	
2+80	5.7	-1.1	4+60	5.7	-1.1
	6.0	-1.4		5.0	-0.4
3+00	6.3	-1.7		4.5	+0.1
(4.6)	6.4	-1.8		4.2	+0.4
	6.4	—	5+00	4.2	—
	6.4	—		3.7	+0.9
	6.4	—		3.5	+1.1
	6.5	-1.9	(4.6)	3.0	+1.5
	6.7	-2.1	(4.7)	3.0	+1.7
	6.7	—	50	3.0	—
	6.5	-1.9		2.8	+1.9
10:58	6.6	-2.0		2.7	+2.0
4+00	6.7	-2.1		2.6	+2.1
	6.7	—		2.5	+2.2
	6.5	-1.9	6+00	2.4	+2.3
	6.4	-1.8		2.2	+2.5
	6.2	-1.6		2.2 1.7	— +3.0
4+50	6.1	-1.5	6+50	1.0 0.5	+3.7 +4.2

STA - 46+00 1-16-98

0+00 = PT 500' SOUTH OF STA-46+00 SECT "D" B/L:

SOUND DIST	SOUND SOUTH		DIST	SOUND	
0+00	5.9	-1.1	1+70	4.2	+0.6
+10	6.0	-1.2	11:23	4.3	+0.5
11:20	6.1	-1.3	(4.8)	4.3	—
(4.8)	6.0	-1.2	2+00	4.3	—
	5.4	-0.6		4.4	+0.4
50	5.0	-0.2		4.4	—
	4.8	0.0		4.6	+0.2
	4.5	+0.3		4.5	+0.3
	4.4	+0.4	50	4.6	+0.2
	4.5	+0.3		4.8	0.0
1+00	4.4	+0.4		5.1	-0.3
	4.3	+0.5		5.5	-0.7
	4.3	—		5.6	-0.8
	4.2	+0.6	3+00	5.8	-1.0
	4.1	+0.7		6.1	-1.3
50	4.1	—		6.3	-1.5
1+60	4.1	—	3+30	6.4	-1.6

STA - 46+00 1-16-98 (18)

DIST	SOUND		DIST	SOUND	
3+40	6.7	-1.9	5+20	3.4	+1.4
50	6.7	—	11:27	3.4	—
11:25	7.0	-2.2	(4.8)	3.5	+1.3
(4.8)	6.9	-2.1	50	3.4	+1.4
	6.7	-1.9		3.3	+1.5
	6.6	-1.8		3.2	+1.6
4+00	6.4	-1.6		3.1	+1.7
	6.0	-1.2		3.1	—
	6.0	—	6+00	2.7	+2.1
	5.7	-0.9		2.3	+2.5
	5.6	-0.8		2.1	+2.7
50	5.7	-0.9		2.1	—
	5.5	-0.7		2.0	+2.8
			50	1.6	+3.2
	5.3	-0.5	60	1.5	+3.3
			70	1.5	
	4.7	+0.1	80	1.4	+3.4
			90	1.2	+3.6
	4.4	+0.4	7+00	1.0	+3.8
			10	0.6	+4.2
5+00	4.2	+0.6	11:30 20	0.6	
			30	0.5	+4.3
5+10	3.6	+1.2	7+40	0.5	

STA- 45+00 1-16-98

0+00 = Pt. 500' South of Sta- 75+00 Sect. "D" B/L:

Dist	Sound South		Dist	Sound	
0+00	5.5	-0.6	1+70	4.1	+0.8
+10	5.4	-0.5		4.1	—
11:37	5.0	-0.1	1.9	4.1	—
1.9	5.0	—	2+00	4.2	+0.7
	5.0	—		4.1	+0.8
50	4.8	+0.1	11:40	4.3	+0.6
	4.7	+0.2		4.3	—
	4.6	+0.3		4.5	+0.4
	4.4	+0.5	50	5.5	-0.6
	4.4	—		5.1	-0.2
1+00	4.3	+0.6		5.2	-0.3
	4.3	~		5.5	-0.6
	4.1	+0.8		6.0	-1.1
	4.0	+09	3+00	6.0	—
	4.0	—		6.1	-1.2
50	4.0	—		6.1	—
1+60	4.0	—	3+30	6.2	-1.3

Dist	Sound		Dist	Sound	
3+40	6.3	-1.4	5+20	5.0	-0.1
50	6.4	-1.5		4.9	0.0
	6.4	—	4.9	4.7	+0.2
4.9	6.7	-1.8	50	4.3	+0.6
	6.8	-1.9		4.0	+0.9
	6.7	-1.8		3.9	+1.0
4+00	6.8	-1.9		3.5	+1.4
	6.8	—		3.5	—
11:43	6.8	—	6+00	3.2	+1.7
	6.9	-2.0		3.1	+1.8
	6.7	-1.8		3.1	—
50	6.4	-1.5		3.2	+1.7
	6.1	-1.2		3.0	+1.9
	6.0	-1.1	50	2.8	+2.1
	5.6	-0.7		2.8	—
	5.5	-0.6		2.6	+2.3
5+00	5.1	-0.2		2.1	+2.8
5+10	5.1	—	6+90	2.0	+2.9

STA- 43+00 1-16-98

DIST	SOUND		DIST	SOUND
7+00	1.8	+3.1		
	1.9	+3.0		
11:45	1.5	+3.4		
(4.9)	1.2	+3.7		
	1.1	+3.8		
50	1.1	—		
	1.1	—		
	1.1	—		
	1.1	—		
	1.0	+3.9		
8+00	1.0	—		
	1.0	—		
8+20	0.9	+4.0		
11:47				
50				

STA- 44+00 1-16-98 (20)

0+00 = Pt. 500' South of STA- 44+00 See "D" Bk.

DIST	SOUND SOUTH SOUND		DIST	SOUND	
0+00	5.3	-0.5	1+70	4.2	+0.6
+10	5.1	-0.3	12:48	4.4	+0.4
12:45	4.9	-0.1	(4.8)	4.4	—
(4.8)	4.4	+0.4	2+00	4.5	+0.3
	4.1	+0.7		4.5	—
50	4.1	+0.7		4.6	+0.2
	4.0	+0.8		4.8	0.0
	4.0	—		5.0	-0.2
	4.2	+0.6	50	5.0	—
	4.0	+0.8		5.4	-0.6
1+00	4.0	—		5.2	-0.4
	4.0	—		5.4	-0.6
	4.1	+0.7		5.4	—
	4.2	+0.6	3+00	5.6	-0.8
	4.1	+0.7		6.2	-1.4
50	4.2	+0.6		6.1	-1.3
1+60	4.2	—	3+30	6.1	-1.3

STA - 44+00 — 1-16-18

DIST	SOUND		DIST	SOUND	
3+40 PX	6.1	-1.3	5+20	4.8	0.0
50	6.3	-1.5		4.7	+0.1
(4.8)	6.3	—	(4.8)	4.7	—
12:50	6.5	-1.7	50	4.7	—
	6.6	-1.8		4.7	—
	6.8	-2.0		4.7	—
4+00	6.6	-1.8		4.5	+0.3
	7.0	-2.2		4.2	+0.6
	6.6	-1.8	6+00	4.0	+0.8
	6.5	-1.7		4.0	—
	6.1	-1.3		4.5	+0.3
50	5.8	-1.0		4.6	+0.2
	5.6	-0.8		4.7	+0.1
	5.4	-0.6	50	4.2	+0.6
	5.1	-0.3		4.0	+0.8
	5.0	-0.2		4.0	—
5+00	5.0	—		3.9	+0.9
5+10	5.0	—	6+90	3.8	+1.0

STA - 44+00

DIST	SOUND	
7+00	3.6	+1.2
	3.4	+1.4
12:55	3.4	—
(4.8)	3.4	—
	3.4	—
50	3.1	—
	3.1	+1.7
	3.1	—
	3.1	—
	3.4	+1.4
8+00	3.6	+1.2
	3.4	+1.4
	3.1	+1.7
	2.9	+1.9
	2.8	+2.0
50	2.8	—
	2.8	—
8+70	2.9	+1.9

1-16-18 — (21)

DIST	SOUND	
8+80	2.8 PX	+1.9
	2.7	+2.1
9+00	2.7	—
(4.8)	2.7	—
	2.6	+2.2
	2.6	—
	2.8	+2.0
50	2.9	+1.9
	3.2	+1.6
	3.0	+1.8
	3.0	—
	3.2	+1.6
10+00	3.1	+1.7
	3.0	+1.8
	3.0	—
	2.9	+1.9
12:59	2.8	+2.0
10+50	2.7	+2.1

STA-43+00 1-16-48

0+00 = PT. 500' SOUTH OF STA. 43+00 SECT. "D" B/L.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	4.5	+0.2	1+70	4.1	+0.6
+10	4.3	+0.4		4.2	+0.5
13:08	4.0	+0.7	(4.7)	4.3	+0.4
(4.7)	4.4	+0.3	2+00	4.4	+0.3
	4.0	+0.7		4.5	+0.2
50	4.0	—		4.8	-0.1
	4.1	+0.6		5.0	-0.3
	4.1	—		5.0	—
	4.1	—	50	5.2	-0.5
	4.0	+0.7		5.2	—
1+00	4.0	—		5.2	—
13:10	4.0	—		5.5	-0.8
	4.0	—		5.7	-1.0
	4.1	+0.6	3+00	5.8	-1.1
	4.2	+0.5		5.8	—
50	4.1	+0.6		6.0	-1.3
1+60	4.0	+0.7	3+30	6.1	-1.4

STA-43+00 1-16-48 (22)

DIST	SOUND		DIST	SOUND	
3+10	6.3	-1.6	5+20	4.5	+0.2
50	6.1	-1.4		4.5	+0.2
	6.2	-1.5	(4.7)	4.5	+0.2
(4.7)	6.2	-1.5	50	4.5	+0.2
	6.3	-1.6		4.6	+0.1
	6.1	-1.4		4.5	+0.2
4+00	6.0	-1.3		4.5	+0.2
	6.0	-1.3		4.5	—
	5.7	-1.0	6+00	4.5	—
	5.5	-0.8		4.5	—
	5.3	-0.6		4.4	+0.3
13:13					
50	5.1	-0.4		4.4	—
	4.9	-0.2		4.4	—
	4.8	-0.1	50	4.4	—
	4.7	0.0	(4.7)	4.4	—
	4.5	+0.2	(4.6)	4.6	0.0
5+00	4.5	+0.2		4.4	+0.2
5+10	4.5	+0.2	6+30	4.4	—

PX

STA-43+00

1-16-18

DIST	SOUND		DIST	SOUND	
7+00	4.7	-0.1	8+80	3.5	+1.1
13:15	4.8	-0.2	(4.6)	3.5	—
(4.6)	4.8	-0.2	9+00	3.5	—
	4.6	0.0		3.6	+1.0
	4.6	—		3.6	—
50	4.5	+0.1		3.5	+1.1
	4.3	+0.3		3.4	+1.2
	4.5	+0.1	50	3.3	+1.3
	4.6	0.0		3.1	+1.5
	4.6	—		3.0	+1.6
8+00	4.4	+0.2		3.0	—
	4.4	—		3.0	—
	4.4	—	10+00	3.0	—
	4.0	+0.6		3.0	—
	3.7	+0.9		2.9	+1.7
50	3.5	+1.1		2.9	—
	3.5	—		2.8	+1.8
8+10	3.5	—	10+50	2.8	—

STA-43+00

1-16-18

(23)

DIST	SOUND		DIST	SOUND
10+60	2.5	+2.1		
	2.4	+2.2		
(4.6)	2.4	—		
	2.3	+2.3		
11+00	2.3	—		
	2.1	+2.5		
	2.0	+2.6		
	2.0	—		
	2.0	—		
50	2.0	—		
	2.0	—		
	2.0	—		
	2.0	—		
	2.0	—		
12+00	2.0	—		
	2.0	—		
13:19	2.0	—		
12+30	1.7	+2.9		

SOUNDINGS NORTH OF 0+00 ON PAGE (31)

STA- 42+00 1-16-18

0+00 = Pt. 500' South of STA- 42+00 Sect. "D" B/L.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	3.9	+0.6	1+70	4.2	+0.3
+10	4.2	+0.3		4.4	+0.1
13:26	3.7	+0.8	(4.5)	4.5	0.0
(4.5)	3.6	+0.9	2+00	4.6	-0.1
	3.7	+0.8		4.8	-0.3
50	3.8	+0.7		4.9	-0.4
	3.9	+0.6		5.0	-0.5
	4.0	+0.5		5.0	—
	4.4	+0.1	50	5.0	—
	4.0	+0.5		5.1	-0.6
1+00	4.0	—		5.3	-0.8
	4.0	—		5.3	—
	4.0	—		5.4	-0.9
	4.0	—	3+00	5.4	-0.9
	4.0	—		5.7	-1.2
50	4.1	+0.4		5.9	-1.4
1+60	4.2	+0.3	3+30	6.1	-1.6

STA- 42+00 1-16-18 (27)

DIST	SOUND		DIST	SOUND	
3+10	6.0	-1.5	5+20	4.5	0.0
50	6.2	-1.7	(4.5)	4.5	—
(4.5)	6.1	-1.6	13:30	4.5	—
	6.0	-1.5	50	4.5	—
	5.9	-1.4		4.5	—
	5.6	-1.1		4.6	-0.1
4+00	5.4	-0.9		4.8	-0.3
	5.0	-0.5		4.8	—
	5.0	—	6+00	4.7	-0.2
	5.0	—		4.8	-0.3
	4.9	-0.4		4.8	—
50	4.7	-0.2		4.8	—
	4.6	-0.1		4.8	—
	4.5	0.0	50	4.8	—
	4.5	—		4.8	—
	4.5	—		4.8	—
5+00	4.5	—		4.8	—
5+10	4.5	—	6+90	5.0	-0.5

STA - 42+00 1-16-98

DIST	SOUND		DIST	SOUND	
7+00	4.8	-0.3	8+80	4.0	+0.5
PX	4.7	-0.2	13:33	3.9	+0.6
(4.5)	4.7	—	9+00	3.7	—
	4.5	0.0	(4.5)	3.9	—
	4.5	—		3.5	+1.0
50	4.4	+0.1		3.5	—
	4.2	+0.3		3.5	—
	4.2	—	50	3.5	—
	4.2	—		3.5	—
	4.2	—		3.5	—
8+00	4.1	+0.4		3.4	+1.1
	4.1	—		3.1	+1.4
	4.0	+0.5	10+00	3.0	+1.5
	4.0	—		3.0	—
	4.0	—		3.0	—
50	4.0	—		2.9	+1.6
	4.0	—		2.9	—
8+70	4.0	—	10+50	2.9	—

STA - 42+00 1-16-98

DIST	SOUND		DIST	SOUND	
10+00	2.9	+1.6	12+40	2.5	+2.0
	2.9	—	50	2.5	—
(4.5)	2.8	+1.7	(4.5)	2.5	—
	2.7	+1.8		2.4	+2.1
11+00	2.7	+1.8		2.3	+2.2
	2.6	+1.9		2.3	—
	2.6	—	13+00	2.1	+2.4
	2.5	+2.0		2.1	—
	2.5	—	13+20	1.8	+2.7
50	2.5	—	13:35		
	2.5	—			
	2.5	—			
	2.5	—			
	2.5	—			
12+00	2.5	—			
	2.5	—			
	2.5	—			
12+30	2.5	—			

SOUNDINGS NORTH ON PAGE (31)

STA- 41+00 1-16-98

0+00 = Pt. 500' South of Sta- 41+00 Sect. "D" B/L.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	4.8	-0.4	1+70	4.7	-0.3
+10	4.7	-0.3		4.8	-0.4
13:43	3.8	+0.6	(4.4)	4.9	-0.5
(4.4)	3.7	+0.7	2+00	4.9	—
	3.6	+0.8		4.9	—
50	3.9	+0.5		5.0	-0.6
	3.9	—		5.1	-0.7
	3.8	+0.6		5.0	-0.6
	3.8	—	50	5.0	—
	3.9	+0.5		5.1	-0.7
1+00	3.9	—		5.3	-0.9
	3.9	—		5.4	-1.0
	3.4	+1.0		5.6	-1.2
	4.3	+0.1	3+00	5.5	-1.1
	4.0	+0.4		5.8	-1.4
50	4.2	+0.2		5.9	-1.5
1+60	4.3	+0.1	3+30	5.9	—

STA- 41+00 1-16-98 (26)

DIST	SOUND		DIST	SOUND	
3+40	5.8	-1.4	5+20	4.4	0.0
50	6.0	-1.6		4.4	—
	5.2	-0.8	(4.4)	4.5	-0.1
(4.4)	5.1	-0.7	50	4.5	—
	5.0	-0.6		4.5	—
	4.8	-0.4		4.6	-0.2
4+00	4.7	-0.3		4.7	-0.3
	4.5	-0.1		4.8	-0.4
	4.4	0.0	6+00	4.8	—
	4.4	—		4.8	—
	4.4	—		4.8	—
50	4.4	—		4.8	—
13:48	4.3	+0.1		4.8	—
	4.3	—	50	4.7	-0.3
	4.3	—		4.7	—
	4.4	0.0		4.5	-0.1
5+00	4.4	—		4.5	—
5+10	4.4	—	6+90	4.4	0.0

STA - 41+00 — 1-16-98

DIST	SOUND		DIST	SOUND	
7+00	4.2	+0.2	8+80	3.7	+0.7
(4.4)	4.1	+0.3	(4.4)	3.5	+0.9
	4.0	+0.4	9+00	3.6	+0.8
13:50	4.0	—		3.5	+0.9
RX	4.0	—		3.5	—
50	4.0	—		3.6	+0.8
	4.0	—		3.7	+0.7
	4.0	—	50	3.7	—
	3.9	+0.5		3.5	+0.9
	3.9	—		3.6	+0.8
8+00	3.8	+0.6		3.6	—
	3.8	—		3.6	—
	3.8	—	10+00	3.5	+0.9
	3.8	—		3.5	—
	3.9	+0.5		3.5	—
50	3.9	—		3.5	—
	3.9	—		3.4	+1.0
8+70	3.8	+0.6	10+50	3.4	—

STA - 41+00 — 1-16-98 — (27)

DIST	SOUND		DIST	SOUND	
10+60	3.4	+1.0	12+90	2.8	+1.6
	3.3	+1.1	50	2.8	—
(4.4)	3.3	—		2.8	—
13:53	3.3	—	(4.4)	2.8	—
11+00	3.3	—		2.8	—
	3.2	+1.2		2.8	—
	3.2	—	13+00	2.7	+1.7
	3.1	+1.3		2.6	+1.8
	3.1	—		2.6	—
50	3.1	—		2.6	—
	3.2	+1.2		2.5	+1.9
	3.2	—	50	2.4	+2.0
	3.1	+1.3		2.1	+2.3
	3.0	+1.4		2.0	+2.4
12+00	3.0	—		1.9	+2.5
	3.0	—		1.9	—
	2.9	+1.5	14+00	1.9	—
12+30	2.9	—	13:55	(SOUNDINGS NORTH ON PAGE (32))	

STA- 48+00 1-16-48

0+00 = PT. 500' SOUTH OF STA- 98+00 SECTION "D" B/L.

SOUND DIST	SOUTH SOUND		DIST	SOUND	
0+00	4.4	+0.1	1+70	4.4	-0.1
+10	4.6	-0.3		4.4	—
14:05	4.6	—	(4.3)	4.7	-0.4
(4.3)	4.6	—	2+00	4.7	—
	4.8	-0.5		4.7	—
50	5.1	-0.8		4.7	—
	5.2	-0.9		4.7	—
	5.2	—		4.8	-0.5
	5.1	-0.8	50	5.0	-0.7
	5.0	-0.7		5.0	—
1+00	5.0	—		4.9	-0.6
	5.0	—		5.0	-0.7
	4.8	-0.5		5.1	-0.8
	4.8	—	3+00	5.4	-1.1
	4.6	-0.3		5.5	-1.2
50	4.4	-0.1		5.6	-1.3
1+60	4.4	—	3+30	5.8	-1.5

STA- 48+00 1-16-48 (28)

DIST	SOUND		DIST	SOUND	
3+10	5.8	-1.5	5+20	1.5	+2.8
50	5.8	—		1.4	+2.9
	5.8	—	(4.3)	1.2	+3.1
(4.3)	5.3	-1.0	50	1.0	+3.3
14:12	5.0	-0.7	14:15		
	4.8	-0.5			
4+00	4.7	-0.9			
	4.6	-0.3			
	4.5	-0.2			
	4.0	+0.3			
	3.5	+0.8			
50	3.1	+1.2			
	2.8	+1.5			
	2.7	+1.6			
	2.6	+1.7			
	2.0	+2.3			
5+00	1.9	+2.4			
5+10	1.8	+2.5			

STA-49+00 1-16-78

0+00 = Pt. 500' South of STA-49+00 Sect. "D" B/L

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00 PX	3.5	+0.7	1+70	5.5	-1.3
+10	3.7	+0.5		5.6	-1.4
14:22	3.9	+0.3	(4.2)	5.6	-1.4
(4.2)	4.3	-0.1	2+00	5.7	-1.5
	4.9	-0.7		5.4	-1.2
50	4.8	-0.6		5.3	-1.1
	4.8	—		5.1	-0.9
	5.1	-0.9		5.1	—
	5.1	—	50	5.2	-1.0
	5.1	—		5.1	-0.9
1+00	5.1	—		5.1	—
	5.1	—		5.0	-0.8
	5.1	—		5.0	—
	5.2	-1.0	3+00	4.7	-0.5
	5.3	-1.1		4.6	-0.4
50	5.4	-1.2		4.5	-0.3
1+60	5.5	-1.3	3+30	4.4	-0.2

STA-49+00 1-16-78 (29)

DIST	SOUND		DIST	SOUND
3+10	4.3	-0.1	PX	
50	4.1	+0.1		
14:25	3.5	+0.7		
(4.2)	3.1	+1.1		
	2.9	+1.3		
	2.2	+2.0		
4+00	2.0	+2.2		
	2.0	—		
	1.8	+2.4		
	1.7	+2.5		
	1.5	+2.7		
50	1.2	+3.0		
	1.1	+3.1		
	1.1	+3.1		
	1.0	+3.2		
	0.9	+3.3		
5+00	0.8	+3.4		
14:27				

STA-50+00 1-16-98

0+00 = PT. 500' SOUTH OF STA-50+00 SECT. "D" B/L.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	3.5	+0.5	1+70	6.0	-2.0
+10	3.4	+0.6		6.0	—
14:33	3.3	+0.7	(4.0)	6.0	—
(4.0)	3.3	—	2+00	6.0	—
	3.8	+0.2		6.0	—
50	4.0	0.0		5.8 ~~6.0~~	-1.8
	4.2	-0.2		5.5	-1.5
	4.4	-0.4		5.1	-1.1
	4.8	-0.8	50	5.0	-1.0
	5.2	-1.2		4.7	-0.7
1+00	5.5	-1.5		4.5	-0.5
	5.5	—		4.4	-0.4
14:35	6.0	-2.0		4.4	—
	6.0	—	3+00	4.4	—
	6.0	—	(4.0)	4.2	-0.2
50	6.0	—	(3.9)	4.1	-0.2
1+60	6.0	—	3+30	4.0	-0.1

STA-50+00 1-16-98 (30)

DIST	SOUND		DIST	SOUND	
3+40	3.9	0.0	5+30	2.9	+1.0
50	3.9	—		2.8	+1.1
14:38	3.9	—	(3.9)	2.8	—
(3.9)	3.9	—	50	3.2	+0.7
	3.9	—		3.4	+0.5
	3.8	+0.1		3.4	+0.5
4+00	3.5	+0.4		3.3	+0.6
	3.2	+0.7		2.9	+1.0
	3.0	+0.9	6+00	2.9	—
	2.7	+1.2		2.9	—
14:40	2.7	—		2.1	+1.8
50	2.7	—		2.3	+1.6
	3.0	+0.9		2.1	+1.8
	3.0	—	50	2.8	+1.1
	3.0	—			
	3.0	—			
5+00	3.2	+0.7			
5+10	3.1	+0.8			

STA-43+00 1-16-98

0+00 = PT. 500' SOUTH OF STA-43+00 SECT. "D" B/L.

SOUND DIST	NORTH SOUND		DIST	SOUND
0+00			1+70	5.5
+10	3.9	-0.1		14.7
14:55	4.0	-0.2		16.7
(3.8)	4.3	-0.5	2+00	17.0
	4.6	-0.8		16.7
50	4.8	-1.0		16.5
	5.0	-1.2		16.5
	5.0	-1.2		
	5.0	—	50	
	5.0	—		
1+00	5.1	-1.3		
	5.1	—		
	5.1	—		
	5.2	-1.4		
	5.2	—		
50	6.0	-2.2		
1+10	5.5	-1.7		

STA-42+00 1-16-98 (31)

0+00 = PT. 500' SOUTH OF STA-42+00 SECT. "D" B/L.

SOUND DIST	NORTH SOUND		DIST	SOUND
0+00				
+10	3.4	+0.1		
14:56	3.2	+0.6		
(3.8)	3.5	+0.3		
	4.0	-0.2		
50	6.5	-2.7		
	10.1	-6.3		
	12.1	-8.3		
	15.7	-11.9		
	16.5	-12.7		
1+00	18.0	-14.2		
	19.0	-15.2		
50				

STA- 41+00 1-16-98

0+00 = PT. 500' SOUTH OF STA- 41+00 SECT

SOUND NORTH

DIST	SOUND	
0+00		
+10	7.0	- 3.3
15:00	9.8	-6.1
(3.7)	11.5	-7.8
	11.5	—
50	12.0	-8.3
	12.0	—
	15.5	-11.8
	18.3	-14.6
	19.0	-15.3
1+00	19.5	-15.8
	19.5	—

STA- 51+00 1-16-98 (32)

0+00 = PT. 500' SOUTH OF STA- 51+00 SECT. "D" B/L.

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	3.0	+0.6	1+70	6.2	-2.6
+10	3.0	—		6.0	-2.4
15:07	3.1	+0.5	(3.6)	6.1	-2.5
(3.6)	3.6	0.0	2+00	6.1	—
	3.8	-0.2		6.1	—
50	4.0	-0.4		6.1	—
	4.2	-0.6		5.9	-2.3
	4.5	-0.9		5.8	-2.2
	4.6	-1.0	50	5.5	-1.9
	5.0	-1.4		5.4	-1.8
1+00	5.5	-1.9		5.0	-1.4
	6.0	-2.4		4.6	-1.0
	6.0	—		4.5	-0.9
	6.0	—	3+00	4.5	—
	6.5	-2.9		4.5	—
50	6.2	-2.6		4.6	-1.0
1+60	6.2	—	3+30	4.5	-0.9

STA-51+00 1-16-98

DIST	SOUND		DIST	SOUND	
3+40	4.5	-0.9	5+20	7.5	-3.9
~~DSO~~	4.5	—		8.1	-4.5
3.6	4.5	—	3.6	7.8	-3.2
	4.5	—	50	7.8	—
	4.5	—		8.0	-4.4
	4.4	-0.8		7.8	-4.2
4+00	4.3	-0.7		8.0	-4.4
	4.4	-0.8		8.3	-4.7
	4.4	—	6+00	8.1	-4.5
	4.5	-0.9		8.1	—
	4.5	—		8.1	—
50	4.5	—		8.0	-4.4
14:10	4.6	-1.0		7.8	-4.2
	5.2	-1.6	50	7.6	-4.0
	5.8	-2.2		7.4	-3.8
	6.0	-2.4		7.4	—
5+00	6.2	-2.6	6+80	7.0	-3.4
5+10	6.4	-2.8	15:10		

FINAL 1-26-48

SOUNDINGS OF APPROACH CHANNEL SECT. "D"

PROJ- 3-1

PX

STA- 67+00

0+00 = STA. 67+00 SECT. "D" B/L; SECT. AT 90° TO B/L.

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	7.2	+0.3	1+40	17.0	-9.5
+10	7.1	+0.4	50	16.8	-9.3
10:10	7.1	—	(7.5)	17.1	-9.6
(7.5)	7.1	—		17.0	-9.5
	7.1	—		16.8	-9.3
50	7.2	+0.3		16.7	-9.2
	7.2	—	2+00	16.7	-9.2
	7.2	—		16.7	-9.2
	7.2	—		16.8	-9.3
	7.2	—		16.7	-9.2
1+00	7.2	—		16.7	-9.2
	8.3	-0.8	50	16.8	-9.3
	13.5	-6.0	10:15	16.7	-9.2
1+30	17.5	-10.0	2+70	17.1	-9.6

STA- 67+00 1-26-48 (34)

DIST	SOUND		DIST	SOUND
2+80	16.6	-9.1		
	17.0	-9.5	PX	
3+00	16.5	-9.0		
	14.0	-6.5		
(7.5)	8.1	-0.6		
	7.0	+0.5		
	6.9	+0.6		
50	6.9	+0.6		
	6.9	+0.6		
	6.9	+0.6		
	6.9	+0.6		
	6.9	+0.6		
4+00	7.0	+0.5		
10:18				

1-26-48

END SECTION 200' SOUTH OF STA-68+00

0+00 = PT. ON X-SECTION LINE 200' SOUTH STA-68+00 SECTION

DIST	SOUND		DIST	SOUND	
SOUND	WEST	AT 90° TO X-SECT. LINE			
0+00	7.0	+0.3	1+70	15.8	-8.5
+10	6.9	+0.4		15.8	—
10:30	6.9	—	7.3	15.7	-8.4
7.3	6.9	—	2+00	15.5	-8.2
	6.9	—	10:34		
50	6.9	—			
	7.0	+0.3			
	15.0	-7.7			
	17.1	-9.8			
	16.4	-9.1			
1+00	16.4	—			
	16.2	-8.9			
	16.0	-8.7			
	16.3	-9.0			
	16.3	—			
50	16.4	-9.1			
1+60	16.0	-9.7			

DIST	SOUND	DIST	SOUND

0+00=STA-66+00 DIST	SOUND	STA-66+00 SECT. "D"	66+00 B/L SECT. AT 90° DIST	SOUND	1-26-98 TO B/L
0+00	7.0	+0.1	1+70	15.1	-8.0
+10	6.9	+0.2		15.1	—
10:47	6.9	—	(7.1)	15.4	-8.3
(7.1)	6.9	—	2+00	15.5	-8.4
	6.8	+0.3		15.3	-8.2
50	6.8	—		15.1	-8.0
	6.9	+0.2		15.1	—
	6.9	—		15.5	-8.4
	6.9	—	50	15.5	—
	6.9	—		15.4	-8.3
1+00	12.5	-5.4		15.5	-8.4
	13.0	-5.9		15.0 ~~16.0~~	-7.9
	13.0	—		15.2	-8.1
	13.1	-6.0	3+00	15.0	-7.9
	13.0	-5.9		15.1	-8.0
10:50 50	13.5	-6.4		12.0	-4.9
1+60	15.2	-8.1	3+30	6.9	+0.2

DIST	SOUND	STA-66+00	DIST	SOUND	1-26-98
3+40	6.5	+0.6			
50	6.4	+0.7			
	6.4	—			
(7.1)	6.4	—			
	6.4	—			
	6.3	+0.8			
4+00	6.4	+0.7			
10:54					

1-26-98

0+00 STA - 65+00 SOUND SOUTH

DIST	SOUND
0+00	6.7
+10	6.7
10:58	6.7
(6.9)	6.7
	6.6
50	6.6
	6.6
	6.5
	6.5
	6.5
1+00	10.5
11:00	14.4
	14.8
	15.0
	15.0
50	15.5
1+60	15.3

STA - 65+00 SECT. "D" B/L

+0.2
—
—
—
+0.3
—
—
+0.4
—
—
-3.6
-7.5
-7.9
-8.1
—
-8.6
-8.4

1+70 SECT. AT 90° TO B/L

DIST	SOUND
1+70	15.3
	15.1
(6.9)	15.1
2+00	15.1
	15.0
	15.0
	15.0
50	15.0
	15.1
11:03	15.2
	15.1
	15.0
3+00	15.3
	14.7
	14.0
3+30	7.1

-8.4
-8.2
—
—
-8.1
—
—
—
—
-8.2
-8.3
-8.2
-8.1
-8.4
-7.8
-7.1
-0.2

(65)

1-26-98

STA - 65+00 SOUND

DIST	SOUND
3+40	6.0
50	6.0
(6.9)	6.0
	6.1
11:05	6.1
	6.0
4+00	6.0

+0.9
—
—
+0.8
—
+09
—

DIST SOUND

STA- 64+00 1-26-98

0+00 = STA - 64+00 ON SECT. "D" B/L ; SECT. AT 90° TO B/L.

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
PX 0+00	6.4	+0.3	1+70	~~15.8~~ 14.9	-8.2
+10	6.4	—		15.0	-8.3
11:10	6.4	—	(6.7)	15.2	-8.5
(6.7)	6.4	—	2+00	15.2	—
	6.5	+0.2	11:13	15.4	-8.7
50	6.4	+0.3		15.4	—
	6.4	—		15.4	—
	6.4	—		15.4	—
	6.3	+0.4	50	15.4	—
	6.3	—		15.4	—
1+00	8.8	-2.1		15.5	-8.8
	13.5	-6.8		15.5	—
	14.6	-7.9		15.5	—
	15.0	-8.3	3+00	15.4	-8.7
	15.1	-8.4		14.3	-7.6
50	15.0	-8.3		14.4	-7.7
1+60	15.0	—	3+30	9.0	-2.3

STA- 64+00 1-26-98

DIST	SOUND		DIST	SOUND
3+40	5.9	+0.8	PX	
50	5.8	+0.9		
11:15	5.9	+0.8		
(6.7)	5.8	+0.9		
	5.8	—		
	5.8	—		
4+00	5.8	—		

STA- 63+00 1-26-48

0+00 = STA-63+00 SECT. "D" B/L. SECT AT 90° TO B/L.

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
PX					
0+00	6.8	-0.3	1+90	15.6	-9.1
+10	7.0	-0.5		15.5	-9.0
11:23	6.1	+0.4	(6.5)	15.1	-8.6
(6.5)	7.0	-0.5	2+00	15.0	-8.5
	6.1	+0.4		14.8	-8.3
50	6.0	+0.5		14.6	-8.1
	6.0	—		14.3	-7.8
	6.0	—		14.5	-8.0
	6.0	—	50	14.5	—
	6.0	—		14.7	-8.2
1+00	15.5	-9.0		14.9	-8.4
	15.0	-8.5		15.5	-9.0
	15.0	—		15.9	-9.4
11:25	15.5	-9.0	3+00	15.8	-9.3
	15.6	-9.1		15.5	-9.0
50	15.5	-9.0		15.0	-8.5
1+60	15.5	—	3+30	6.1	+0.4

STA-63+00 1-26-48 (67)

DIST	SOUND		DIST	SOUND
3+10	5.8	+0.7	PX	
50	5.5	+1.0		
	5.5	—		
(6.5)	5.7	+1.1		
	5.4	—		
	5.4	—		
4+00	5.4	—		
11:29				

STA- 62+00 SECT. "D" B/L. SECT. AT 90° TO B/L. 1-26-48

0+00 = STA - 62+00 SOUND DIST	SOUTH SOUND		DIST	SOUND	
PX					
0+00	6.0	+0.3	1+70	14.7	-8.4
+10	5.9	+0.4		14.8	-8.5
11:35	5.9	—	(6.3)	14.9	-8.6
(6.3)	3.9	—	2+00	15.0 ~~14~~	-8.7
	5.8	+0.5		15.0	-8.7
50	5.7	+0.6		~~15~~.8	-8.5
	5.7	—		14.7	-8.4
	5.7	—	11:38	14.8	-8.5
	5.7	—	50	15.0	-8.7
	6.0	+0.3		14.5	-8.2
1+00	12.7	-6.4		14.8	-8.5
	15.5	-9.2		14.8	—
	15.5	—		14.9	-8.6
	15.4	-9.1	3+00	14.9	—
	15.1	-8.8		14.0	-7.7
50	14.9	-8.6		11.1 ~~7.1~~	-4.8
1+60	14.7	-8.4	3+30	5.2	+1.1

STA - 62+00 1-26-48 (68)

DIST	SOUND		DIST	SOUND
3+40	5.2	+1.1	PX	
50	5.2	—		
(6.3)	5.2	—		
	5.2	—		
11:40	5.2	—		
	5.2	—		
4+00	5.2	—		

STA. 61+00 1-26-98

0+00 = STA. 61+00 SECT. "D" B/L. SECT. AT 90° TO B/L.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	6.5	-0.4	1+70	15.0	-8.9
+10	6.1	0.0		15.0	—
11:45	6.0	+0.1	(6.1)	14.8	-8.7
(6.1)	5.9	+0.2	2+00	14.8	—
	5.9	—		14.1	-8.0
50	5.9	—		14.2	-8.1
	5.8	+0.3		14.8	-8.7
	5.8	—		15.2	-9.1
	5.7	+0.4	50	14.8 +5.8	-8.7
	6.5	-0.4		15.0	-8.9
1+00	12.6	-6.5		14.6	-8.5
	15.1	-9.0		14.2	-8.1
	15.1	—		14.0	-7.9
	15.1	—	3+00	14.0	—
	15.2	-9.1		13.4	-7.3
50	15.0	-8.9		7.0	-0.9
1+60	15.0	—	3+30	5.2	+0.9

STA. 61+00 1-26-98 (69)

DIST	SOUND	
3+10	5.2	+0.9
50	5.2	—
	5.2	—
(6.1)	5.1	+1.0
	5.1	—
	5.1	—
4+00	5.0	+1.1
11:50		

STA- 55+00 1-26-98

0+00 = STA - 55+00 SECT. "D" B/L ; SECT. AT 90° TO B/L

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	2.9	+1.7	1+70	13.1	-8.5
+10	3.0	+1.6	13:08	13.2	-8.6
13:05	3.0	—	4.6	13.3	-8.7
4.6	3.0	—	2+00	13.3	—
	3.0	—		13.3	—
50	2.9	+1.7		13.4	-8.8
	2.8	+1.8		13.5	-8.9
	2.8	—		13.6	-9.0
	2.9	+1.7	50	13.8	-9.2
	5.7	-1.1		14.0	-9.4
1+00	10.8	-6.2		14.0	—
	13.0	-8.4		14.3	-9.7
	13.0	—	13:10	14.4	-9.8
	13.0	—	3+00	14.5	-9.9
	13.0	—		14.9	-10.3
50	13.0	—		12.5	-7.9
1+60	13.1	-8.5	3+30	7.7	-3.1

STA - 55+00 1-26-98 (70)

DIST	SOUND		DIST	SOUND
3+10	7.7	-3.1		
50	7.7	—		
	7.7	—		
4.6	7.5	-2.9		
	7.5	—		
	7.5	—		
4+00	7.5	—		
13:12				

STA - 54+00 SECT. "D" B/L; SECT. AT 90° TO B/L. 1-26-98

0+00 = STA - 54+00 SOUND SOUTH

DIST	SOUND		DIST	SOUND	
PX 0+00	2.4	+2.0	1+70	12.3	-7.9
+10	2.4	—	(4.9)	12.8	-8.4
13:14	2.4	—	13:18	12.6	-8.2
(4.9)	2.4	—	2+00	12.6	—
	2.4	—		12.6	—
50	2.4	—		12.8	-8.4
	2.5	+1.9		13.1	-8.7
	2.2	+2.2		13.3	-8.9
	2.2	—	50	13.3	—
	2.4	+2.0		13.3	—
1+00	8.1	-3.7		14.0	-9.6
	12.4	-8.0		14.0	—
	12.8	-8.4		14.0	—
	12.2	-7.8	3+00	14.1	-9.7
	12.1	-7.7		14.1	—
50	12.5	-8.1		12.0	-7.6
1+60	12.9	-8.5	3+30	5.1	-0.7

(71)

STA - 54+00 1-26-98

DIST	SOUND		DIST	SOUND
3+40	5.1	-0.7	PX	
50	6.0	-1.6		
(4.9)	5.8	-1.4		
	6.1	-1.7		
	6.3	-1.9		
	6.4	-2.0		
4+00	6.5	-2.1		

STA-53+00 1-26-48

0+00 = STA-53+00 SECT. "D" B/L: SECT. AT 90° TO B/L.

SOUND DIST	SOUND		DIST	SOUND	
0+00	1.7	+2.5	1+70	13.1	-8.9
+10	1.8	+2.4	13:30	12.0	-7.8
13:27	2.0	+2.2	(4.2)	12.0	—
(4.2)	2.0	—	2+00	12.0	—
	2.0	—		12.3	-8.1
50	3.8	+0.4		12.8	-8.6
	2.7 ~~3.7~~	+1.5		12.3	-8.1
	2.1	+2.1		12.1	-8.2
	2.2	+2.0	50	12.4	—
	2.0	+2.2		12.4	—
1+00	4.2	0.0		13.3	-9.1
	11.3	-7.1		14.0	-9.8
	14.1	-9.9		14.1	-9.9
	14.1	—	3+00	14.4	-10.2
	14.0	-9.8		14.4	—
50	14.0	—	13:33	12.7	-8.5
1+00	14.0	—	3+30	10.0	-5.8

STA-53+00 1-26-48 (72)

DIST	SOUND		DIST	SOUND
3+40	9.7	-5.5	PX	
50	9.3 ~~10.~~	-5.1		
(4.2)	9.5	-5.3		
	9.5	—		
	9.5	—		
	9.4	-5.2		
4+00	10.0	-5.8		
13:35				

FINAL 1-26-98

SOUNDINGS OF APPROACH CHANNEL SECT. "B"

PROJ - 3-1

PX

STA - 30+51.56

0+00 = STA - 30+51.56 SECT. "B" B/L; SECT. AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	1.6	+1.7	1+40	11.3	-8.0
+10	1.6	—	50	11.5	-8.2
14:21	1.5	+1.8		12.0	-8.7
(3.3)	1.6	+1.7	(3.3)	12.0	—
	1.6	—		11.9	-8.6
50	1.5	+1.8		11.9	—
	1.5	—	2+00	11.9	—
	1.6	+1.7		11.9	—
	1.8	+1.5		11.9	—
	1.8	—		11.8	-8.5
1+00	2.2 ~~11.2~~	-3.9		11.8	—
	11.0	-7.7	50	11.7	-8.4
	11.4	-8.1		11.7	—
1+30	11.3	-8.0	2+70	11.7	—

STA - 30+51.56 1-26-98 (73)

DIST	SOUND		DIST	SOUND
2+80	11.4	-8.1	PX	
	11.4	—		
3+00	11.4	—		
(3.3)	11.7	-8.4		
	10.0	-6.7		
	2.4	+0.9		
	2.4	—		
50	2.4	—		
	2.4	—		
	2.4	—		
	2.5	+0.8		
	2.4	+0.9		
4+00	2.5	+0.8		
14:27				

Indexed

STA-29+00 1-26-48

0+00=STA-29+00 SECT "B" B/L; SECT AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	1.5	+1.5	1+70	12.2	-9.2
PX	1.5	—		12.0	-9.0
14:32	1.5	—	(3.0)	11.8	-8.8
(3.0)	1.4	+1.6	2+00	12.0	-9.0
	1.3	+1.7		11.8	-8.8
50	1.4	+1.6		11.9	-8.9
	1.4	—		11.9	—
	1.4	—		12.0	-9.0
	1.5	+1.5	50	12.1	-9.1
14:35	1.5	—		12.1	—
1+00	5.2	-2.2		12.3	-9.3
	10.1	-7.1		12.4	-9.4
	11.1	-8.1		12.0	-9.0
	12.2	-9.2	3+00	12.1	-9.1
	12.1	-9.1		12.1	—
50	12.3	-9.3	14:38	7.5	-4.5
1+60	12.6	-9.6	3+30	2.0	+1.0

STA-29+00 1-26-48 (71)

DIST	SOUND		DIST	SOUND
3+90	2.0	+1.0		
50	2.0	—	PX	
(3.0)	2.1	+0.9		
	2.2	+0.8		
	2.1	+0.9		
	2.0	+1.0		
4+00	2.0	—		
14:39				

1-26-48

END SECTION 200' EAST OF STA-28+00

0+00 = PT. ON X-SECT. LINE 200' EAST STA-28+00 SECT. "B" B/L

SOUND NORTH AT 90° TO X-SECT. LINE.

DIST	SOUND	
0+00	1.4	+1.4
+10	1.5	+1.3
19:45	1.5	—
~~2.8~~	1.5	—
	1.5	—
50	6.1	-3.3
	12.0	-9.2
	12.0	—
	12.0	—
	11.8	-9.0
1+00	11.8	—
	11.7	-8.9
	11.6	-8.8
	11.9	-8.6
	11.7	-8.9
1+50	11.5	-8.7
1+60		

STA-30+00

1-26-48 (75)

1+00 = STA-30+00 SECT. "B" B/L; SECT. AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	1.0	+1.6	~~1+70~~	10.9	-8.3
+10	1.1	+1.5		10.9	—
19:52	1.0	+1.6	2.6	10.9	—
2.6	1.0	—	2+00	11.0	-8.4
	1.0	—		11.0	—
50	1.0	—		11.1	-8.5
	1.1	+1.5		11.0	-8.4
	1.4	+1.2		11.0	—
	1.2	+1.4	19:55 50	11.0	—
	1.5	+1.1		11.0	—
1+00	7.9	-5.3		11.1	-8.5
	11.0	-8.4		11.1	—
	11.0	—		11.1	—
	11.0	—	3+00	11.1	—
	11.0	—		11.3	-8.7
50	10.9	-8.3		10.0	-7.4
1+60	10.9	—	3+30	3.2	-0.6

STA - 30+00 SECT. "B" 1-26-98

DIST	SOUND		DIST	SOUND
3+40	1.5	+1.1		
~~50~~	2.6	0.0		
(2.6)	2.0	+0.6		
	2.0	—		
	1.9	+0.7		
	1.9 ~~0.9~~	—		
4+00	1.9	—		

2-9-26 (76)

ORIGINAL X-SECTIONS OF LAND TO BE DECLARED SURPLUS IN BAYVIEW TERRACE (NORTH OF DE-ANZA B/L.) PX Indexed

STA - 93+00

0+00 = STA - {N-175+77.87 / W-93+00}

DIST	+	H.I.	−	ELEV	
T.B.M	4.79	12.19		7.40	Sta. 92+00
0+00			5.2	7.0	
0+65			5.3	6.9	
1+35			5.4	6.8	
2+45			5.4	—	
3+45			5.4	—	
4+50			5.3	6.9	
4+65			2.8	9.4	
5+30			2.9	9.3	
6+35			3.4	8.8	
7+45			2.9	9.3	
8+75			2.6	9.6	

Sta 93+00 Cont.

Dist	+	H.I	-	Elev.
		12.19		
9+75			2.6	9.6
10+75			1.4	10.8
10+85			+1.2	13.4

ORIGINAL X-SECTIONS 2-9-48 (77)

OF LAND IN BAYVIEW TERRACE NORTH OF DE-ANZA B/L.

STA-92+00 PX

8+00 = STA- {N-176+03.51 W-92+00} SECTIONS - DUE NORTH B/L = N 78° 37' 15" E

Dist	+	H.I	-	Elev	
	4.39	11.84		7.45	Sta (Ann) 93+00
N.9+15			0.6	11.2	
N.4+05			2.4	9.4	
N.3+90			2.5	9.3	
N.3+75			4.0	7.8	
N.3+25			5.2	6.6	
N.2+65			5.0	6.8	
N.1+95			5.2	6.6	
N.1+15			5.4	6.4	
N.0+65			5.2	6.6	
0+00			5.3	6.5	
S.0+75			5.3	—	
S.1+10			5.3	—	
S.1+58			5.4	6.4	
S.1+80			5.4	—	

2-9-98

PX

STA - 91+00

0+00 = STA - (N-176+29.15 / W-91+00)

DIST	+	H.I.	−	ELEV	
T.B.M	4.39	11.50		7.11	STA-90+01 (TAN)
S-2+10			2.8	8.7	
S 2+05			5.2	6.3	
S-1+80			5.2	—	
S-1+20			5.0	6.5	
S-0+50			5.4	6.1	
S 0+00			5.5	6.0	
N-1+00			5.4	6.1	
N-2+05			5.2	6.3	
N-4+50 3+50			4.7	6.8	
N-3+65			3.1	8.4	
N-4+40			3.2	8.3	
N-4+70			0.4	11.1	

2-9-98

(78)

STA - 90+00

PX

0+00 = STA - (N-176+51.79 / W-90+00)

DIST	+	H.I.	−	ELEV	
T.B.M	4.47	11.69		7.22	STA-91+00
N-7+30			0.3	11.3	
N-6+70			2.4	9.2	
N-5+90			3.5	8.1	
N-4+90			4.0	7.6	
N-3+90			4.4	7.2	
N-2+70			4.6	7.0	
N-2+00			5.2	6.4	
N-1+20			5.2	—	
N-0+50			5.7	5.9	
0+00			5.4	6.2	
S-0+70			5.3	6.3	
S-1+80			4.8	6.8	
S-2+10			4.5	7.1	
S-2+90			4.4	7.2	
S-2+95			3.1	8.5	

2-9-98

PX

STA-89+00

0+00 = STA-89+00

DIST	+	H.I.	−	ELEV	
T.B.M	4.43	11.54		7.11	STA-90+00 (TAN)
S-3+00			3.0	8.5	
S-2+60			3.9	7.6	
S-2+30			4.2	7.3	
S-1+15			5.1	6.4	
0+00			5.4	6.1	
N-1+05			5.3	6.2	
N-2+00			5.0	6.5	
N 2+65			2.2	9.3	
N-3+10			2.90	8.6	
N-3+85			4.9	7.1	
N-1+85			3.8	7.7	
N-5+80			3.3	8.2	
N-6+50			1.8	9.7	
N6+75			0.3	11.2	

2-9-98

(79)

PX

STA-88+00

0+00 = STA-88+00

DIST	+	H.I.	−	ELEV	
T.B.M	4.02	11.56		7.54	STA-TAN 89+00
N-3+70			0.0	11.6	
N-2+75			3.6	8.0	
N-2+05			4.3	7.3	
N-1+10			4.5	7.1	
0+00			5.3	6.3	
S-1+00			5.2	6.4	
S-1+70			4.5	7.1	
S-2+60			4.3	7.3	
S-3+10			3.6	8.0	
S-					
S-					
S-					

2-9-78

PK

STA-87+00

0+00 = STA-87+00

DIST	+	H.I.	−	ELEV
T.B.M	2.96	11.79 &		8.83
S-3+90			4.1	7.7
S-2+90			4.9	6.9
S-1+75			5.4	6.4
S-0+80			5.5	6.3
0+00			5.3	6.5
N-0+95			4.5	7.3
N-1+05			3.8	8.0
N-1+55			3.7	8.1
N-2+30			1.8	10.0
N-2+70			0.7	11.1

STA-86+00 (TAN)

2-9-78

(80)

STA- 86+00

PK

0+00 = STA-86+00

STA-87+00 (TAN)

DIST	+	H.I.	−	ELEV
T.B.M	6.24	13.44		7.20
S.3-90			5.2	8.2
S.3+05			7.6	5.8
S. 2+35			7.5	5.9
S. 1+85			7.4	6.0
S. 1+30			7.3	6.1
S. 0+65			6.9	6.5
S-0+52			6.0	7.4
0+00			5.3	8.1
N. 0+97			3.7	9.7
N. 1+08			4.1	9.3
N. 1+18			5.6	7.8
N. 1+25			3.2	10.2
N. 1+65			2.1	11.3
N. 1+85			0.9	12.5
N. 1+92			2.0	11.4

PX

Sta 86+00 Cont

Dist	+	H.I.	−	Elev
2+22		13.44	2.1	11.3
2+43			1.5	11.9
2+45			0.3	13.1

2-9-48

0+00 = Sta 85+00

Sta. 85+00

PX

Dist	+	HI	−	Elev	
	7.25	16.08		8.83 7.00	Sta 86+00 ?
S. 2+35			10.1	6.0	
S. 1+95			9.8	6.3	
S. 1+53			8.9	7.2	
S. 1+05			7.9	8.2	
S. 0+55			7.3	8.8	
0+00			5.2	10.9	
N0+75			4.1	12.0	
N0+95			4.3	11.8	
N. 1+20			3.7	12.4	
N. 1+45			3.8	12.3	
N. 1+80			2.4	13.7	
N. 2+62			5.8	10.3	
N. 2+07			2.6	13.5	
N. 2+12			0.8	15.3	

PX

2-11-48

STA- 129+00

DIST	+	H.I.	−	ELEV	
					T.B.M. - 20' SOUTH STA-129+00
T.B.M.	4.98	12.41		7.43	
0+00			5.2	7.2	
0+70			5.3	7.1	
1+25			5.3	—	
1+30			6.7	5.7	
2+05			7.0	5.4	
2+60			6.1	6.3	
3+15			6.4	6.0	
3+75			6.4	—	
4+05			5.6	6.8	
4+25			3.5	8.9	
4+30			1.3	11.1	
4+35			1.0	11.4	

2-11-48 (82)

STA 128+00 PX

DIST	+	H.I.	−	ELEV	T.B.M. STA. 127+00
T.B.M.	4.56	12.33		7.77	
2+45			0.5	11.8	
2+40			2.4	9.9	
1+90			3.7	8.6	
1+40			4.3	8.0	
1+33			5.2	7.1	
1+30			5.7	6.6	
1+25			5.3	7.0	
0+65			5.3	—	
0+00			5.3	—	

2-11-48

PX

STA 127+00

DIST	+	H.I.	−	ELEV.	T.B.M. STA.
T.B.M.	4.60	12.59		7.99	Sta. 126+00
0+00			5.3	7.3	
0+65			5.1	7.5	
1+40			5.0	7.6	
2+00			5.3	7.3	
3+75			5.3	—	
4+55			4.9	7.7	
5+30			4.6	8.0	
5+60			3.0	9.6	
6+00			2.3	10.3	
6+85			1.3	11.3	

2-11-48 (83)

PX

STA 126+00

DIST	+	H.I.	−	ELEV	T.B.M.
T.B.M.	4.61	12.68		8.07	T.P. #7
6+00			2.5	10.2	
5+40			2.6	10.1	
4+90			4.0	8.7	
4+20			4.7	8.0	
3+35			4.7	—	
2+20			4.9	7.8	
1+75			5.0	7.7	
1+05			5.0	—	
0+56			5.1	7.6	
0+00			5.2	7.5	

2-11-48

PX

Sta 125+00

Dist	+	H.I.	-	Elev	
	4.85	12.92		8.07	TIP #7
0+00			5.2	7.7	
0+80			5.2	—	
1+65			5.1	7.8	
2+45			5.1	—	
3+30			5.0	7.9	
3+80			4.4	8.5	House
4+30			2.7	10.2	
5+35			2.7	10.2	
6+45			2.4	10.5	

2-11-48 (84)

PX

Sta 124+00

Dist	+	H.I.	-	Elev	
	5.30	13.15		7.85	T.B.M. #6 20'9/103 South End of House
7+25			4.0	9.1	
3+55			5.0	8.1	
2+25			5.0	—	
1+50			5.0	—	
0+95			5.0	—	
0+00			5.3	7.8	

2-11-48

PX

Sta 123+00

Dist	+	H.I.	−	Elev.	
	4.61	12.46		7.85	T13A1 20'9 123+00 TP #6
0+00			5.4	7.1	
0+75			5.3	7.2	
1+15			4.8	7.7	
2+20			4.2	8.3	
3+05			4.1	8.4	
3+85			4.4	8.1	
4+30			2.4	10.1	

PX

Sta. 122+00

Dist	+	H.I.	−	Elev.	
T.P. #1	5.35	13.12		7.77	T13A1 Sta 122+00
4+50			2.9	10.2	
3+85			4.1	9.0	
3+25			4.5	8.6	
2+45			5.2	7.9	
1+80			5.2	7.9	
1+25			5.2	—	
0+65			5.1	8.0	
0+00			5.2	7.9	

PX

STA 121+00

DIST	+	H.I.	−	ELEV.	
T.B.M.	3.66	12.61		8.95	2X2 GUARD AT MON
0+00			5.2	7.4	
0+65			4.9	7.7	
1+55			4.6	8.0	
2+50			4.2	8.4	
3+45			4.2	—	
4+10			3.0	9.6	

2-11-47 (86)

PX

Sta 120+00

Dist	+	HI	−	Elev	
T.B.M.	3.34	12.29		8.95	2X2 GUARD AT MON
4+65			2.3	10.0	
4+25			3.6	8.7	
3+90			3.8	8.5	
3+25			3.8	—	
2+35			4.2	8.1	
1+45			5.0	7.3	
0+75			4.9	7.4	
0+00			5.2	7.1	

2-11-48

PX

0+00 = STA-W-82+00 DE-ANZA B/L

DIST	+	H.I.	-	ELEV	
T.B.M	4.41	11.25		6.84	STA-81+00
0+00			5.3	5.9	
0+12			5.0	6.2	
0+18			2.9	8.3	
0+52			1.4	9.8	
0+56			0.7	10.5	
0+64			0.5	10.7	
0+72			0.2	11.0	

2-11-48 (87)

PX

0+00 = Sta 83+00 DE-ANZA B/L

Dist.	+	HI	-	Elev	
TBM	5.90	12.01		6.11	DE/A. B/L Sta. 82+00
1+50			0.5	11.5	
1+30			1.3	10.7	
0+25			2.9	9.1	
0+75			3.9	8.1	
0+50			5.0	7.0	
0+00				6.0	
TP			2.60	9.41	

2-11-48

PX

STA - 84+00

0+00 = STA. 84+00 ON TAN STATIONS W 95 TO W 107

Dist	+	H.I.	-	Elev
T.B.M	4.11	19.01		14.90
0+00			4.5	14.5
0+11			6.6	12.4
0+70			6.5	12.5
1+30			7.6	11.4
1+80			9.0	11.0
2+30			10.6	8.4
2+40			11.2	7.8
2+85			12.3	6.7

T. P. 20'S STA - 84+00

FINAL

BARRAGAN SHAFFNY STANLEY

2-17-48

(88)

X-SECTIONS OF SOUTH ISLAND PATERA GROUP

PROJ - # 3-1

PX Indexed

STA - 119+00

0+00 = STA - 119+00 PATERA B/L : SECT. AT 90° TO B/L.

DIST	+	H.I.	-	ELEV
WATER LEVEL	5.78	7.88		(2.1)
0+00			4.8	3.1
E-0+65			4.7	3.2
E-1+33 LATH			4.9	3.0
E-1+80			5.6	2.3
W-0+78 LATH			5.0	2.9
W-1+60			5.8	2.1

TIDE AT 11:33

2-17-48

PX

STA-118+00

0+00=STA-118+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	6.95	9.25		(2.3)	TIDE AT 12:38
W-3+13	~~7.0~~		7.0	2.0	
W-2+90	~~5.6~~		5.6	3.6	
W-2+42			4.6	4.6	
W-1+78			4.3	4.9	
W-1+25			4.3	4.9	
W-0+65			4.4	4.8	
0+00			5.0	4.2	
E-0+55			4.9	4.3	
E-1+20			4.8	4.4	
E-1+90			5.3	3.9	
E-2+42			5.8	3.4	
E-3+10			6.7	2.5	

TOP 2.20

2-17-48

(89)

STA-117+00

PX

0+00=STA-117+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	8.75	11.15		(2.4)	TIDE AT 12:50
E-4+18			8.7	2.4	
E-3+85			8.0	3.1	
E-3+25			7.3	3.8	
E-2+75			6.3	4.8	
E-2+20			5.6	5.5	
E-1+60			5.1	6.0	
E-0+68			5.1	6.0	
0+00			5.0	6.1	
W-0+70			5.0	6.1	
W-1+60			5.0	6.1	
W-2+30			5.4	5.7	
W-3+06			5.7	5.4	
W-3+75			6.8	4.3	
W-4+08			8.7	2.4	

STA: 116+00 2-17-98

0+00 = STA-116+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	12.30	14.70		(2.4)	TIDE AT 13:00
W-5+00			12.3	2.4	
W-4+70			11.5	3.2	
W-3+90			10.4	4.3	
W-2+95			8.0	6.7	
W-2+00			5.7	9.0	
W-1+25			4.5	10.2	
W-0+55			4.3	10.4	
0+00			4.6	10.1	
E-0+95			4.8	9.9	
E-1+03			5.7	9.0	
E-1+95			6.7	8.0	
E-2+80			8.6	6.1	
E-3+83			11.1	3.6	
E 4+33			12.2	2.5	

STA- 115+00 2-17-98 (90)

0+00 = STA-115+00 PATERA B/L: SECT AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	13.55	16.05		(2.5)	TIDE AT 13:18
E-3+96			13.5	2.5	
E-3+70			12.1	3.9	
E-3+00			10.4	5.6	
E-2+20			7.8	8.2	
E-1+50			5.1	10.9	
E-0+90			5.9	10.1	
0+00			4.8	11.2	
W-1+00			3.3	12.7	
W-1+85			5.5	10.5	
W-2+75			8.0	8.0	
W-3+70			9.4	6.6	
W-4+35			11.6	4.4	
W-4+85			12.5	3.5	
W-5+93			13.5	2.5	

STA- 114+00 2-17-48

0+00 = STA-114+00 PATERA B/L: SECT AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	13.65	16.15		(2.5)	TIDE AT 13:39
W-5+75			13.4	2.7	
W-5+25			13.1	3.0	
W-4+20			11.6	4.5	
W-3+55			10.4	5.7	
W-2+90			9.1	7.0	
W-2+30			7.3	8.8	
W-1+80			5.7	10.4	
W-1+42			6.7	9.4	
W-0+95			5.5	10.6	
W-0+55			4.0	12.1	
0+00			4.6	11.5	
E-0+30			5.8	10.3	
E-0+95			5.6	10.5	
E-1+50			6.6	9.5	
E-2+05			7.4	8.7	
E-2+65			10.0	6.1	

STA- 114+00 2-17-48

DIST	+	H.I.	−	ELEV
E-3+40		16.15	12.4	3.7
E-3+65			13.65	2.5

STA- 113+00 2-17-48

0+00 = STA-113+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	TIDE AT
WATER LEVEL	11.20	13.80		(2.6)	13:13
E-3+10			11.2	2.6	
E-2+80			9.7	4.1	
E-2+30			7.8	6.0	
E-1+75			5.5	8.3	
E-1+20			5.0	8.8	
E-0+60			4.3	9.5	
0+00			4.9	8.9	
W-0+70			5.6	8.2	
W-1+55			5.2	8.6	
W-2+55			7.0	6.8	
W-3+75			9.1	4.7	
W-4+60			9.9	3.9	
LATH W-5+35			10.6	3.2	

STA- 112+00 2-19-48 (92)

0+00 = STA-112+00 PATERA B/L: SECT. AT 90° TO B/L

DIST	+	H.I.	−	ELEV	TIDE AT
WATER LEVEL	10.05	12.65		(2.6)	14:03
W-5+10			9.4	3.2	
W. 4+05			8.7	3.9	
W-3+15			7.9	4.7	
W-2+10			7.0	5.6	
W-0+95			5.9	6.7	
0+00			4.8	7.8	
E-0+60			4.8	7.8	
E-1+20			4.1	8.5	
E-2+00			6.7	5.9	
E-2+30			10.0	2.6	

STA- 111+00 2-17-48

0+00 = STA-111+00 PATERA B/L : SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	9.30	11.90		(2.6)	TIDE AT- 14:07
E-2+15			9.3	2.6	
LATH E-2+00			8.1	3.8	
E-1+35			7.4	4.5	
E-0+20			4.9	7.0	
0+00			4.8	7.1	
W-0+65			6.5	5.4	
W-1+30			6.7	5.2	
W-2+38			7.1	4.8	
W-3+55			7.8	4.1	
LATH W-4+65			8.6	3.3	

(93)

STA- 110+00 2-17-48

0+00 = STA-110+00 PATERA B/L : SECT. AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
WATER LEVEL	6.01	8.71		(2.7)	TIDE AT- 14:30
LATH W-5+10			5.2	3.5	
W-4+05			5.2	3.5	
W-3+05			4.6	4.1	
W-2+55			4.5	4.2	
W-1+20			4.4	4.3	
W-0+75			4.4	4.3	
0+00			4.7	4.0	
E-0+65			5.0	3.7	
LATH E-1+50			5.2	3.5	
E-1+63			6.0	2.7	

STA- 109+00 2-17-98

0+00 = STA-109+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST WATER LEVEL	+	H.I.	−	ELEV	TIDE AT-
	5.48	8.18		(2.7)	14:37
E-1+15			5.5	2.7	
E-1+00			5.0	3.2	
E-0+60			5.0	3.2	
0+00			5.0	3.2	
W-0+80			4.7	3.5	
W-1+60			4.6	3.6	
W-2+90			4.6	3.6	
W-3+05			4.6	3.6	

STA- 108+00 2-17-98 (94)

0+00 = STA-108+00 PATERA B/L: SECT. AT 90° TO B/L.

DIST WATER LEVEL	+	H.I.	−	ELEV	TIDE AT
	4.88	7.68		(2.8)	14:46
W-1+65			3.9	3.8	
W-0+95			4.9	2.8	
0+00			4.9	2.8	
E-0+31			4.9	2.8	

CHECK

BARRAGAN BHERRE STANLEY 2-18-18

SOUNDINGS OF APPROACH CHANNEL SECT. "B"

PROJ- #3-1

END SECTION 150' EAST OF STA-25+00

0+00=PT. ON X-SECTION LINE 150' EAST OF STA-25+00

SOUND SOUTH AT 90° TO X-SECT. LINE

DIST	SOUND		DIST	SOUND	
0+00	+1.0	+3.0	1+40	10.1	-8.1
+27	0.0	+2.0	1+50	10.2	-8.2
+30	2.0	0.0			
10:00					
(9.0)	8.5	-6.5			
50	10.0	-8.0			
	10.0	—			
	9.8	-7.8			
	10.1	-8.1			
	10.0	-8.0			
1+00	9.7	-7.7			
	9.4	-7.4			
	9.7	-7.7			
1+30	10.1	-8.1			

STA- 24+00 2-18-18 (95)

0+00=STA-24+00 SECT. "B" B/L. SOUND EAST AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	Indexed
0+97	0.0	+1.8	1+60	1.1	+0.7
1+00	3.5	-1.7	(1.8)	1.2	+0.6
+10	8.8	-7.0	1+80	0.6	+1.2
10:20					
	9.7	-7.9	10:25		
(1.8)	9.7	—	2+00		
	9.6	-7.8			
50	9.6	—			
	10.0	-8.2			
	10.0	—			
	10.0	—			
	9.9	-8.1			
1+00	10.2	-8.4			
	10.0	-8.2			
	10.1	-8.3			
	9.0	-7.2			
	1.2	+0.6			
1+50	1.1	+0.7			

FINAL SOUNDINGS OF SOUTH ISLAND 2-18-48

PATERA GROUP - PROJ - #3-1

STA - 116+00

0+00 = PT. 478' W/STA - 116+00 PATERA B/L: SOUND WEST AT 90° TO B/L

DIST	SOUND		DIST	SOUND
0+40	0.0	+1.7		
50	1.5	+0.2		
10:43	4.0	-2.3		
(1.7)	5.5	-3.8		
	7.0	-5.3		
	7.6	-5.9		
1+00	8.5	-6.8		
	8.7	-7.0		
	9.0	-7.3		
	9.0	—		
	8.5	-6.8		
50	8.3	-6.6		
	8.3	—		
	7.5	-5.8		

Indexed 2-18-48 (96)

STA - 117+00

0+00 = PT. 375' W/STA - 117+00 PATERA B/L: SOUND WEST

DIST.	SOUND		DIST	SOUND	
0+40	0.0	+1.6	2+00	1.3	+0.3
50	2.4	-0.8		0.9	+1.2
10:49	4.8	-3.2	2+13	0.0	+1.6
(1.6)	6.0	-4.4	10:52		
	7.5	-5.9			
	8.0	-6.4			
1+00	8.3	-6.7			
	8.0	-6.4			
	8.4	-6.8			
	8.7	-7.1			
	9.0	-7.4			
50	8.6	-7.0			
	8.0	-6.4			
	7.1	-5.5			
	6.0	-4.4			
1+90	4.9	-3.3			

2-18-18

STA- 118+00

0+06 = Pt. 200' W/STA-118+00 PATERA B/L: SOUND WEST

DIST	SOUND	
0+30	0.0	+1.6
+10	2.5	-0.9
50	5.0	-3.4
10:55	6.6	-5.0
(1.6)	8.1	-6.5
	8.2	-6.6
	9.0	-7.4
1+00	9.7	-8.1
	9.5	-7.9
	8.5	-6.9
	9.4	-7.8
	9.0	-7.4
50	7.1	-5.8
	5.8	-4.2
	4.7	-3.1
1+80	2.0	-0.4

DIST	SOUND	
1+83	0.0	+1.6

2-18-18

STA-108+00

0+00 = STA-108+00 PATERA B/L: SOUND EAST

DIST	SOUND	
0+27	0.0	+1.5
+80	0.2	+1.3
12:37	4.4	-2.9
1+00	4.7	-3.2
(1.5)	5.1	-3.6
	5.8	-4.3
	5.9	-4.4
	6.1	-4.6
50	6.4	-4.9
	6.5	-5.0
	6.8	-5.3
	6.8	—
	6.7	-5.2
2+00	6.9	-5.4
	6.9	—
2+20	6.7	-5.2

DIST	SOUND	
2+30	6.4	-4.9
	6.2	-4.7
50	6.1	-4.6
(1.5)	5.7	-4.2
	5.4	-3.9
	4.7	-3.2
	4.1	-2.6
3+00	4.0	-2.5

2-18-18

STA-109+00

0+00=PT. 100' EAST STA-109+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+30	0.0	+1.5	1+90	6.7	-5.2
40	3.0	-1.5	2+00	6.3	-4.8
50	4.4	-2.9	(1.5)		
12:45	5.1	-3.6			
(1.5)	5.5	-4.0			
	6.0	-4.5			
	6.5	-5.0			
1+00	7.2	-5.7			
	7.3	-5.8			
	7.4	-5.9			
	7.4	—			
	7.5	-6.0			
50	7.5	—			
	7.3	-5.8			
	7.1	-5.6			
1+80	7.1	—			

2-18-18

(98)

STA-110+00

0+00=PT. 150' EAST STA-110+00 PATERA B/L: SOUND EAST.

DIST	SOUND		DIST	SOUND	
0+25	0.0	+1.5	1+80	6.8	-5.3
30	0.6	+0.9	(1.5)	6.7	-5.2
12:50	4.5	-3.0	2+00	6.1	-4.9
50	5.0	-3.5			
(1.5)	5.5	-4.0			
	5.7	-4.2			
	5.8	-4.3			
	5.9	-4.4			
1+00	6.2	-4.7			
	6.5	-5.0			
	6.6	-5.1			
	6.5	-5.0			
	6.7	-5.2			
50	6.7	—			
	7.0	-5.5			
1+70	7.0	—			

2-18-18

STA- 111+00

PX

0+00 = Pt. 200' EAST STA-114+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+21	0.0	+1.6	1+80	~~7.5~~ 7.4	-5.8
+30	2.0	-0.4	(1.6)	~~7.4~~ 7.2	-5.6
12:55	3.9	-2.3	2+00	7.0 ~~7.2~~	-5.4
50	4.6	-3.0			
(1.6)	5.5	-3.9			
	6.0	-4.4			
	6.2	-4.6			
	6.6	-5.0			
1+00	7.1	-5.5			
	7.3	-5.7			
	7.3	—			
	7.6	-6.0			
	7.6	—			
50	7.6	—			
	~~7.5~~	-5.9			
1+70	7.5 ~~7.4~~	—			

2-18-18

(99)

STA- 112+00

PX

0+00 = Pt. 200' EAST STA-112+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+78	0.0 ~~0.2~~	+1.6	2+30	7.4	-5.8
80	0.2	+1.4	(1.6)	7.4	—
13:03	2.5	-0.9	50	6.7	-5.1
1+00	3.8	-2.2			
(1.6)	5.0	-3.4			
	5.6	-4.0			
	6.4	-4.8			
	7.1	-5.5			
50	7.5	-5.9			
	8.0	-6.4			
	8.4	-6.8			
	8.8	-7.2			
	9.0	-7.4			
2+00	8.8	-7.2			
	8.3	-7.7			
2+20	7.8	-6.2			

2-18-48

STA- 113+00 PX

0+00 = Pt. 280' EAST STA-113+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+40	0.0 ~~2.1~~	+1.6	2+00	7.0	-5.4
50	2.1 ~~4.5~~	-0.5			
13:10	3.5	-1.9			
(1.6)	4.6	-3.0			
	5.9	-4.3			
	6.8	-5.2			
1+00	7.3	-5.7			
	7.8	-6.2			
	8.4	-6.8			
	8.6	-7.0			
	9.1	-7.5			
50	9.5	-7.9			
	10.3	-8.7			
	10.0	-8.4			
	10.7	-9.1			
1+90	8.2	-6.6			

2-18-48

(100)

STA-114+00 PX

0+00 = Pt. 340' EAST STA-114+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+32	0.0	+1.6	1+90	7.1	-5.5
40	0.8	+0.8	2+00	6.9	-4.8
50	3.3	-1.7	(1.6)		
13:20	4.4	-2.8			
(1.6)	5.9	-4.3			
	7.0	-5.4			
	7.5	-5.9			
1+00	8.0	-6.4			
	8.5	-6.9			
	8.8	-7.2			
	8.9	-7.3			
	9.0	-7.4			
50	8.8	-7.2			
	8.6	-7.0			
	8.4	-6.8			
1+80	8.0	-6.4			

2-18-98

PX

STA-115+00

0+00 = PT. 370' EAST STA-115+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+25	0.0	+1.7	1+90	7.8	-6.1
40	0.8	+0.9	2+00	7.0	-5.3
50	4.1	-2.4	(1.7)		
13:30	6.0	-4.3			
(1.7)	7.2	-5.5			
	7.4	-5.7			
	7.7	-6.0			
1+00	8.1	+6.4			
	8.2	-6.5			
	8.7	-7.0			
	8.8	-7.1			
	8.9	-7.2			
50	9.0	-7.3			
	9.0	—			
	9.0	—			
1+80	8.4	-6.7			

2-18-98

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PX

STA 116+00

1+00 = PT. 383' EAST STA-116+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+55	0.0	+1.7	2+10	7.7	-6.0
60	0.7	+1.0	(1.7)	7.0	-5.3
13:35	4.8	-3.1	2+30	6.0	-4.3
(1.7)	6.8	-5.1			
	7.7	-6.0			
1+00	8.8	-7.1			
	9.0	-7.3			
	9.3	-7.6			
	9.2	-7.5			
	9.2	—			
50	9.2	—			
	9.2	—			
	9.0	-7.3			
	8.8	-7.1			
	8.7	-7.0			
2+00	8.4	-6.7			

PX

STA- 117+00

0+00 = Pt. 418' EAST STA-117+00 PATERA B/L: SOUND EAST

DIST	SOUND		DIST	SOUND
0+50	0.0	+1.8		
+60	1.0	+0.8		
13:15	3.9	-2.1		
(1.8)	7.0	-5.2		
	8.4	-6.6		
1+00	9.0	-7.2		
	9.4	-7.6		
	9.4	—		
	9.4	—		
	9.5	-7.7		
50	9.4	-7.6		
	9.3	-7.5		
	9.0	-7.2		
	8.7	-6.9		
	8.5	-6.7		
2+00	8.0	-6.2		

2-17-98

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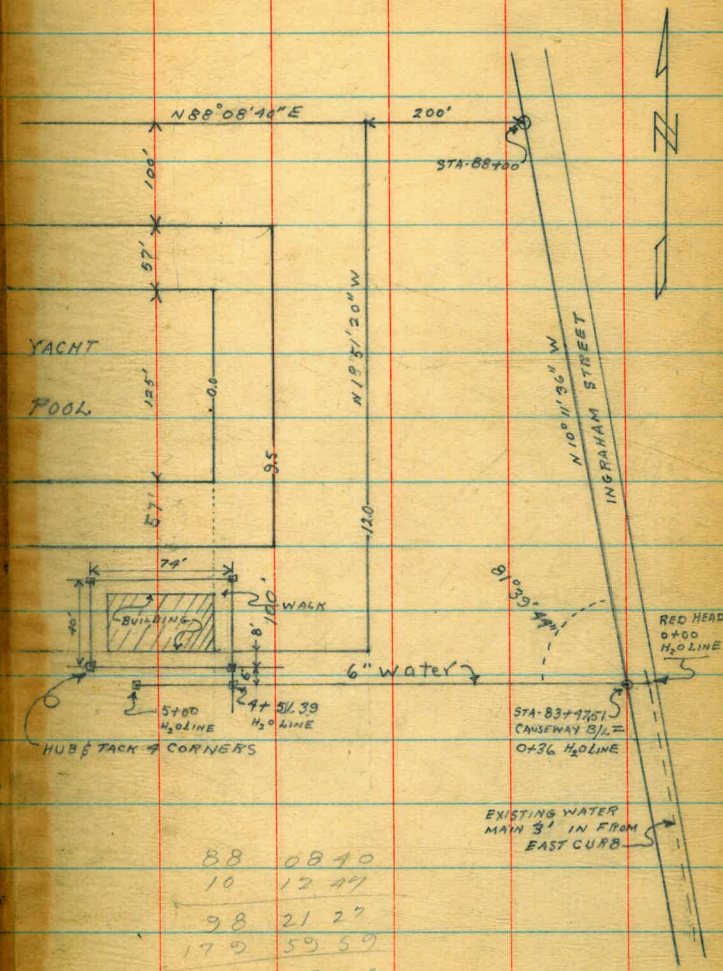
Indexed

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

LAYOUT OF PROPOSED CLUB HOUSE & WATER LINE AT MODEL YACHT POOL & ELEV'S OF BLD'G

3-25-98
T. ALLEN
T. STAMPER

STA	+	H.I	-	ELEV	RMK'S
B.M.				11.05	TOP 2 X 2 W. CAUSEWAY B/L. STA 84+00
	7.23	18.28			
T.B.M.			6.05	12.23	BASE OF FLAG POLE AT MODEL YACHT POOL
	5.24	17.47			
S.E. COR.			3.90	13.57	TOP 2 X 2
N.E. COR.			4.64	12.83	" "
N.W. COR.			4.54	12.93	" "
S.W. COR & BLD'G.			4.20	13.27	" "
			3.23	14.24	FIN. FLOOR GRADE



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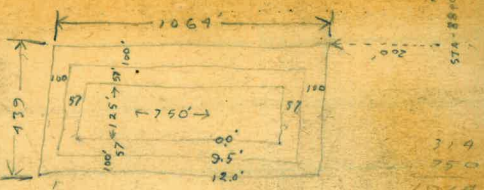
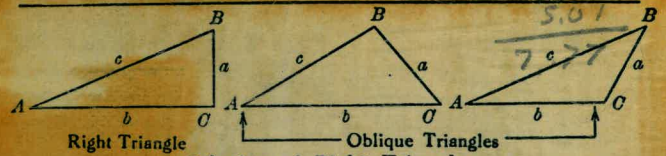
10 12 47
98 21 27
179 59 59
81 28 33



TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .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. Cosine 5° 10′ = .9959. 1 − .9959 = .0041. 319.4 × .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 = $302.6 - \frac{14 \times 14}{2 \times 3}$ = 302.6 − 0.32 = 302.28 ft.