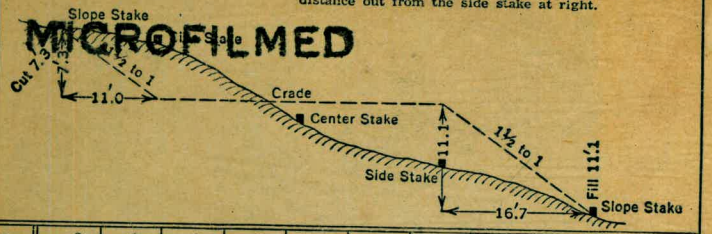
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

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 No. 14

35-70
27-46
12-24

Cut or Fill	
0	
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30	4
31	4
32	4
33	4
34	5
35	5
36	5
37	5
38	5
39	5
40	6

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4	B/L FOR PROJECT NO 8. X-SECTIONS E. OF CAUSEWAY	4-25-47
6	LOCATION OF SEXTANT PTS VENT & DUNE	4-30-47
7	VENTURA DUNE B/L. FOR SOUNDING PROJ. NO. 7	5-7-47
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46-49	Δ OF CITY ENGR MON FAMOSA & Δ CHURCH	6-20-47
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78	PROFILE ALONG E. SIDE PAC. HI-WAY PROJ # 2.1	6-18-48

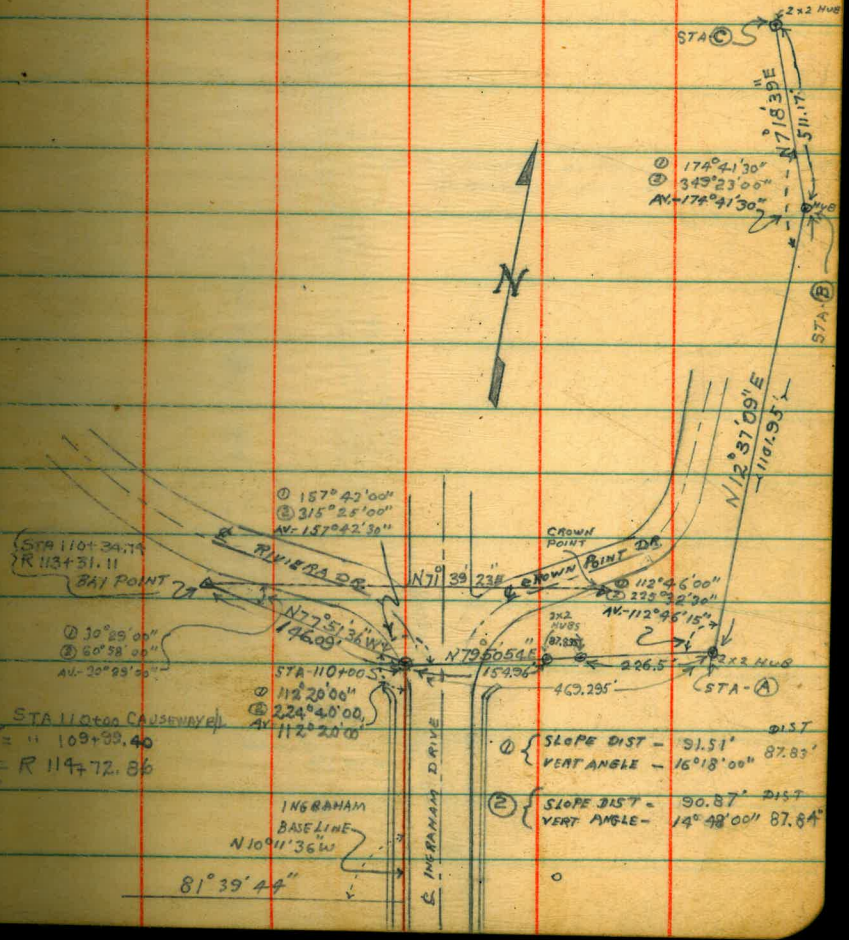
4-22-47 CLEAR & SLIGHT WIND
BARRAGAN SHERRY STANLEY

STA	OBJ.	~~SIX~~	ANGLES	MEAN
	CROWN	①	30°29'00"	
BAY PT	R	②	60°58'00"	30°29'00"
	STA 110+00			
	BAY POINT	①	157°42'00"	
STA 110+00	R	②	315°25'00"	157°42'30"
	2x2 HUB 469.295' STA-"A"			
	STA-110+00	①	112°46'00"	
2x2 HUB 469.295' STA-"A"	R	②	225°32'30"	112°46'15"
	2x2 HUB 1101.95' STA-"B"			
	2x2 HUB 469.295' STA-"A"	①	174°41'30"	
2x2 HUB 1101.95 STA-"B"	R	⑤	349°23'00"	174°41'30"
	2x2 HUB 511.17' STA-"C"			

Indexed

4-18-47 CLEAR & WINDY
BARRAGAN SHERRY STANLEY ②

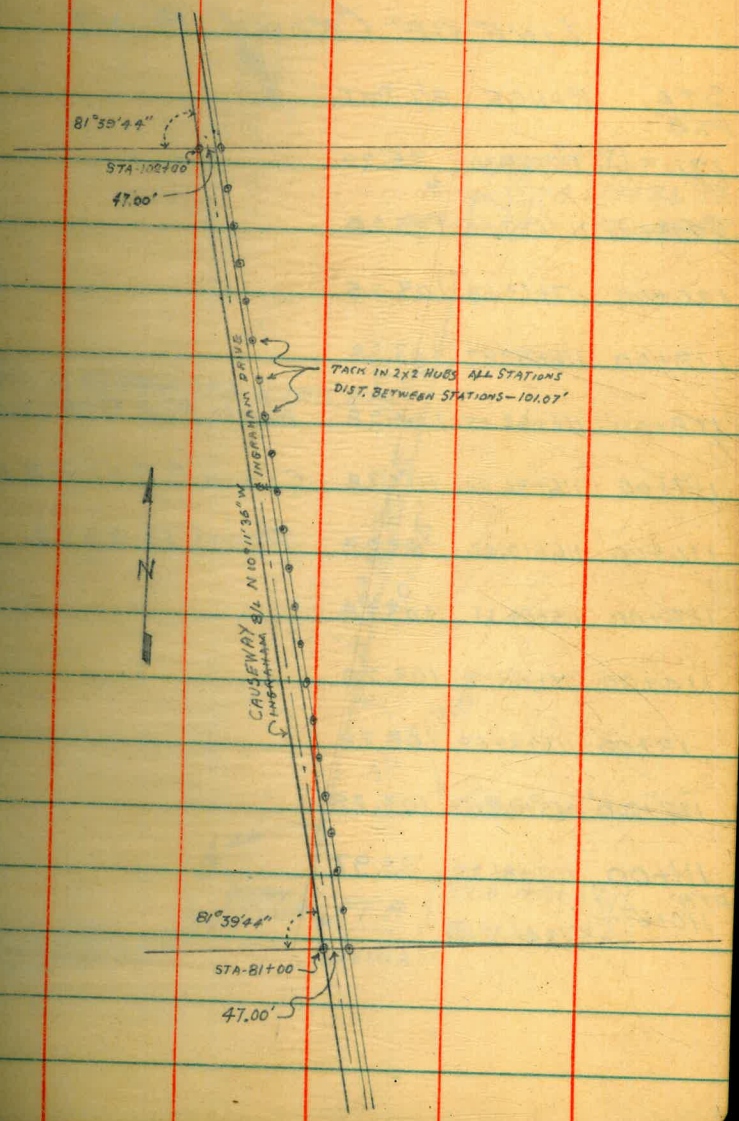
TRAVERSE ALONG SHORELINE CROWN PT. AREA FOR CROSS SECTION CONTROLS OF PROJECT NO.8 E. OF CAUSEWAY



4-21-47 CLOUDY ← WINDY (3)

Retraced

CAUSEWAY ~~INGRAHAM~~ EAST B/L OFFSET – STATIONS 81+00 TO 102+00



BASELINE LAYOUT FOR PROJECT NO. 8. X-SECTIONS ALONG THE SOUTHERLY SHORE LINE OF CROWN POINT.

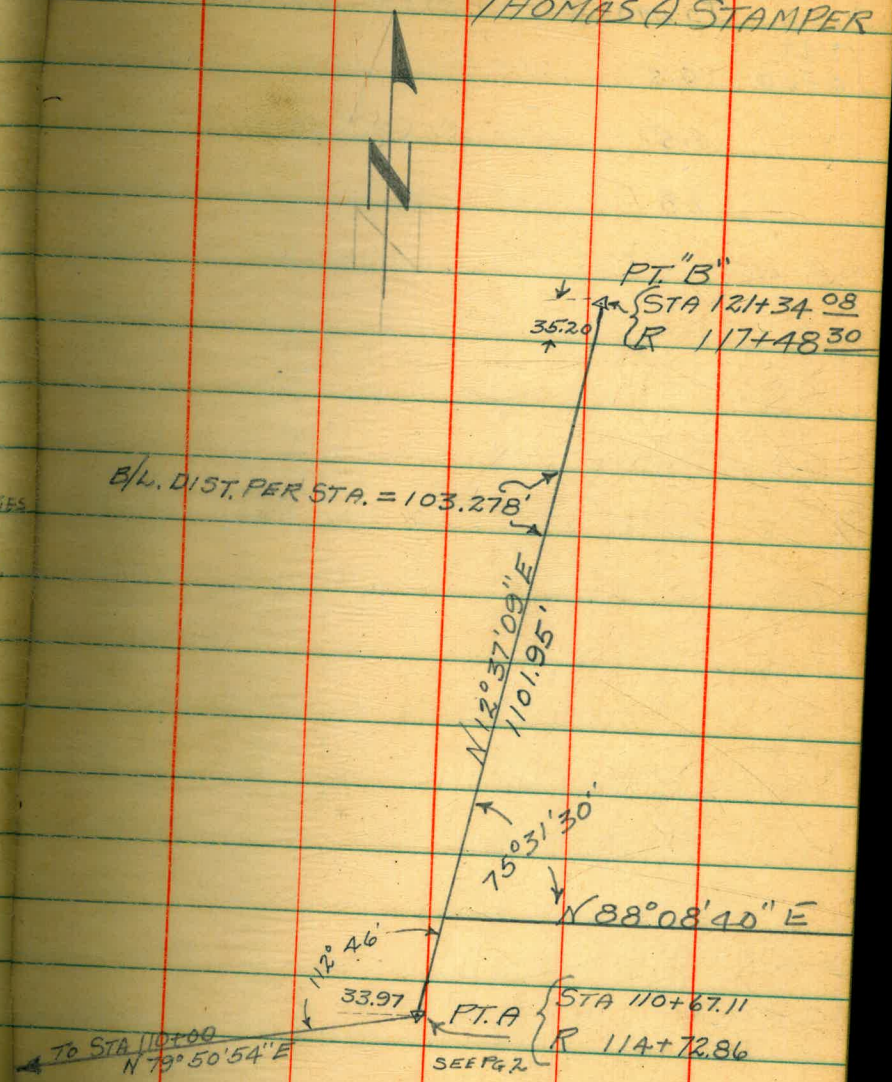
Indexed

4-25-47

THOMAS A STAMPER

STA. PT. "B"	RANGE	B/L. DIST.
121+34.08	117+48.30	35.20
121+00	117+39.50	103.28
120+00	117+13.68	103.28
119+00	116+87.87	103.28
118+00	116+62.05	103.28
117+00	116+36.24	103.28
116+00	116+10.42	103.28
115+00	115+84.61	103.28
114+00	115+58.79	103.28
113+00	115+32.98	103.28
112+00	115+07.16	103.28
111+00	114+81.35	33.97
PT "A" 110+67.11	114+72.86	

NOTE: FOR STAS. & RANGES CONT'D. S. SEE F.B. No. 3. PAGES 61-62-64.



DIST	SOUND	DIST	SOUND
10:34			
0+00	0.5		
	1.5		
	1.8		

Indexed ⑥

TRIANGULATION OF SEXTANT POINTS FOR ARC. SHEET OF PROJECT NO 8.

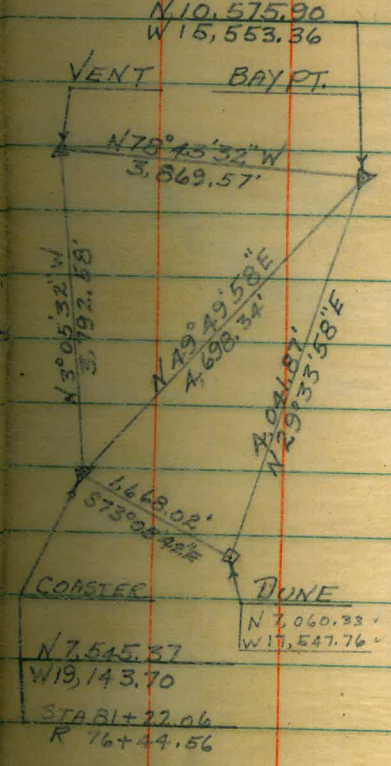
STA	OBJ.	SIX ANGLES	VERNIER	MEAN
	VENTURA			
	DUNE	1. 20° 16' 00"		
U.S.C.&G.S.				
BAY PT	R ↴	2. 40° 32' 00"	0°00'00"	20° 16' 00"
	U.S.C.&G.S.			
	COASTER	6. 121° 36' 00"		
	U.S.C.&G.S.			
	COASTER	1. 51° 26' 30" ✓		
U.S.C.&G.S.				
BAY PT.	R ↴	2. ~~103° 14 00~~ 102° 53' 00"	0°00'00"	51° 26' 30" ~~51° 30 00~~
	SOUTH	308° 39' 00		
	VENT	6. ~~309° 00 30~~		
	SOUTH			
	VENT	1. 52° 55' 15"		
U.S.C.&G.S.				
COASTER	R ↴	2. 105° 50' 45"	0°00'00"	52° 55' 30"
	U.S.C.&G.S.			
	BAY PT.	6. 317° 33' 00"		
	U.S.C.&G.S.			
	BAY PT	1. 57° 04' 00"		
U.S.C.&G.S.				
COASTER	R ↴	2. 114° 08' 30"	0°00'00"	57° 04' 30"
	VENTURA			
	DUNE	6. 342° 26' 00"		

4-30-47

THOMAS A. STAMPER

WARM

VISIBILITY-GOOD



STATION DUNE

IS A 2X2 HUB ON THE EASTERLY RIDGE OF STOCKPILE FOR N. VENTURA BRIDGE APPROACH

STATION VENT

IS THE S.E. CORNER OF THE S. VENT ON BOAT HOUSE ON SANTA CLARA PT.

BASELINE FOR SOUNDINGS
OF DREDGED AREA IN PROJ. No. 7

Indexed

7

5-7-47

THOMAS A. STAMPER

BASELINE N 1°51'20" W

To COASTER N 75°05'42" W

71°14'22"

76+00

14.40

DUNE { STA 75+85.60
R 92+23.96

85.60

75+00

74+00

73+00

72+00

71+00

70+00

69+00

SOUND EAST
0+00 = R/4

STA - 69+00
SOUNDINGS OF DREDGED AREA FROM NO. 7
90+00 : LINES ARE RUN AT 90°00'00" TO R/4

5-19-47

DIST	SOUND		DIST	SOUND	
0+00	0.5	+3.7	190	15.4	-11.2
09:34	1.5	+2.7	200	16.7	-12.5
(4.2)	1.9	+2.3	(4.2)	16.6	-12.4
	2.2	+2.0	09:38	16.5	-12.3
	2.6	+1.6		16.6	-12.4
50	4.4	-0.2		17.0	-12.8
	5.9	-1.7	50	17.2	-13.0
	8.5	-4.3		17.0	-12.8
	9.6	-5.4		16.9	-12.7
	9.5	-5.3		17.0	-12.8
100	9.4	-5.2		16.7	-12.5
	9.7	-5.5	300	16.4	-12.2
	12.0	~~-7.8~~ -11.8		16.6	-12.4
	12.7	-8.5		16.4	-12.2
	13.0	-8.8		16.0	-11.8
50	14.8	-10.6		16.5	-12.3
	14.7	-10.5	50	16.0	-11.8
	14.7	-10.5		16.0	-11.8
180	14.1	-9.9	370	16.3	-12.1

Indexed

STA - 69+00

5-19-47

(3)

DIST	SOUND		DIST	SOUND	
380	16.4	-12.2	580	16.2	-12.0
	16.0	-11.8		16.0	-11.8
400	15.5	-11.3	600	16.0	-11.8
(4.2)	15.2	-11.0	(4.2)	16.0	-11.8
09:40	15.4	-11.2	09:43	16.0	-11.8
	15.7	-11.5		16.3	-12.1
	16.0	-11.8		16.0	-11.8
50	16.0	-11.8	50	16.0	-11.8
	16.0	-11.8		16.0	-11.8
	16.0	-11.8		16.0	-11.8
	16.1	-11.9		16.8	-12.6
	16.0	-11.8		16.0	-11.8
500	16.1	-11.9	700	15.7	-11.5
	16.2	-12.0		16.1	-11.9
	16.4	-12.2		15.7	-11.5
	16.4	-12.2		15.8	-11.6
	16.4	-12.2		15.7	-11.5
50	16.4	-12.2	50	15.4	-11.2
	16.4	-12.2	(4.2)	15.3	-11.1
570	16.4	-12.2	770	15.2	-11.0

STA. 69+00 — 5-19-47

DIST	SOUND		DIST	SOUND	
780	15.0	-10.8	980	14.0	-9.8
(4.2)	14.8	-10.6	09:48	13.8	-9.6
800	14.5	-10.3	1000	14.0	-9.8
	14.2	-10.0		14.1	-9.9
	14.0	-9.8	(4.2)	14.0	-9.8
	13.8	-9.6		14.0	-9.8
	13.7	-9.5		13.8	-9.6
50	13.8	-9.6	50	13.6	-9.4
	13.5	-9.3		13.5	-9.3
	13.1	-8.9		13.6	-9.4
	13.0	-8.8		13.5	-9.3
	13.4	-9.2		13.4	-9.2
900	13.8	-9.6	1100	13.2	-9.0
	14.4	-10.2	(4.2)	13.0	-8.8
	14.4	-10.2	09:50	13.0	-8.8
	14.4	-10.2	(4.1)	13.0	-8.9
	14.6	-10.4		13.0	-8.9
50	14.7	-10.5	50	13.2	-9.1
	14.4	-10.2		13.4	-9.3
970	14.2	-10.0	1170	13.7	-9.6

STA. 69+00 — 5-19-47 — (10)

DIST	SOUND		DIST	SOUND	
1180	14.0	-9.9	1380	16.0	-11.9
	14.0	-9.9		15.1	-11.0
1200	14.0	-9.9	1400	15.0	-10.9
(4.1)	14.4	-10.3	(4.1)	15.0	-10.9
	14.6	-10.5		15.0	-10.9
	13.4	-9.3		15.0	-10.9
09:55	12.8	-8.7		15.7	-11.6
50	12.6	-8.5	50	15.5	-11.4
	12.5	-8.4		15.3	-11.2
	12.5	-8.4		15.3	-11.2
	12.5	-8.4		15.0	-11.9
	12.8	-8.7		14.8	-10.7
1300	13.2	-9.1	1500	14.0	-9.9
	13.5	-9.4		14.0	-9.9
09:57	13.8	-9.7	09:58	14.0	-9.9
	13.2	-9.1		14.0	-9.9
	14.2	-10.1		14.0	-9.9
50	15.7	-11.6	50	13.5	-9.4
	16.0	-11.9	(4.1)	13.4	-9.3
1370	16.0	-11.9	1570	13.8	-9.7

STA - 69+00 5-19-47

DIST	SOUND		DIST	SOUND	
1580	13.3	-9.2	1780	14.0	-10.0
10:00	13.3	-9.2		13.4	-9.4
1600	13.3	-9.2	1800	13.0	-9.0
(4.1)	14.2	-10.1	10:05	13.2	-9.2
	14.1	-10.0	(4.0)	14.0	-10.0
	15.1	-11.0		14.0	-10.0
	16.2	-12.1		13.7	-9.7
50	16.0	-11.9	50	13.4	-9.4
	14.7	-10.6		13.8	-9.8
	13.3	-9.2		14.5	-10.5
	13.1	-9.0		15.1	-11.1
	13.1	-9.0		15.1	-11.1
1700	13.0	-8.9	1900	15.2	-11.2
	13.3	-9.2		15.0	-11.0
10:03	13.8	-9.7		15.0	-11.0
	13.8	-9.7		15.0	-11.0
(4.1)	14.0	-9.9		15.5	-11.0
50	14.1	-10.1	50	16.5	-12.3
(4.0)	14.0	-10.0		17.3	-13.3
1770	14.0	-10.0	1970	17.4	-13.4

STA - 69+00 5-1947 (11)

DIST	SOUND		DIST	SOUND
1980	18.0	-14.0		
	18.5	-14.5		
2000	18.7	-14.7		
10:08				

SOUND EAST — STA 70+00 — PX — 5-19-47

0+00 = R/A — 90+74 : LINES ARE RUN AT 90°00'00" TO R/A

DIST	SOUND		DIST	SOUND	
0+00	+?		250	14.4	-10.6
10:28			(3.8)		
75	0.0	+3.8	10:30	15.2	-11.4
(3.8)					
80	0.5	+3.3	(3.7)	15.2	-11.5
	1.0 / 2.5	+2.8		15.3	-11.6
100	3.7	+0.1		15.8	-12.1
	3.5	+0.3	300	16.7	-13.0
	5.1	-1.3		16.7	-13.0
	5.8	-2.0		16.4	-12.7
	5.3	-1.5		16.8	-13.1
50	5.8	-2.0		16.8	-13.1
	6.7	-2.9	50	16.9	-13.2
	7.0	-3.2		17.3	-13.6
	7.0	-3.2		17.7	-14.0
	9.4	-5.6		17.9	-14.2
200	10.4	-6.6		18.0	-14.3
	11.1	-7.3	400	18.0	-14.3
	11.0	-7.2		17.4	-13.7
	12.5	-8.7		16.5	-12.8
240	13.4	-9.6	430	16.2	-12.5

STA 70+00 — 5-19-47 — PX (12)

DIST	SOUND		DIST	SOUND	
440	15.9	-12.2		14.0	-10.3
50	15.9	-12.2	50	13.7	-10.0
	15.5	-11.8		14.0	-10.3
(3.7)			10:35		
10:33	15.2	-11.5		14.4	-10.7
	14.7	-11.0	(3.7)	14.6	-10.9
	14.5	-10.8		15.6	-11.9
500	14.3	-10.6	700	15.0	-11.3
	14.5	-10.8		14.1	-10.4
	14.3	-10.6		14.0	-10.3
	14.8	-11.1		14.1	-10.4
	14.4	-10.7		15.5	-11.8
50	14.1	-10.4	50	15.0	-11.3
	14.0	-10.3		14.4	-10.7
	15.2 / 14.2	-11.5		14.3	-10.6
	15.1	-11.4		14.4	-10.7
	15.1	-11.4		15.2	-11.5
600	14.0	-10.3	800	15.0	-11.3
	14.0	-10.3		15.0	-11.3
	13.8 / 13.8	-10.1	(3.7)	14.5	-10.8
30	14.0	-10.3	830	14.0	-10.3

	STA	70+	00	PX	5-19-47
DIST	SOUND		DIST	SOUND	
840	14.5	-10.8	1040	12.7	-9.0
50	14.4	-10.7	50	13.1	-9.4
(3.7)	14.0	-10.3		13.1	-9.4
	14.0	-10.3	(3.7)	12.8	-9.1
	14.7	-11.0		13.5	-9.8
	14.5	-10.8		14.1	-10.4
900	14.3	-10.6	1100	14.2	-10.5
10:38	14.5	-10.8		14.1	-10.4
	15.4	-10.7	10:40	14.4	-10.7
	14.0	-10.3		14.4	-10.7
	14.0	-10.3		14.0	-10.3
50	14.0	-10.3	50	14.5	-10.8
	14.0	-10.3		13.8	-10.1
	13.8	-10.1		13.6	-9.9
	13.5	-9.8		13.0	-9.3
	14.0	-10.3		13.2	-9.5
1000	13.5	-10.8	1200	13.5	-9.8
	13.0	-9.3		14.0	-10.3
	12.8	-9.1		14.2	-10.5
1030	12.7	-9.0	1230	14.0	-10.3

	STA	70+	00	5-19-47	PX
DIST	SOUND		DIST	SOUND	
1240	13.8	-10.1	1440	13.4	-9.8
50	13.7	-10.0	50	13.0	-9.4
(3.7)	13.8	-10.1	(3.6)	12.8	-9.2
	13.7	-10.0		12.8	-9.2
	13.3	-9.6		13.0	-9.4
	13.1	9.4		12.8	-9.2
1300	13.0	-9.3	1500	13.0	-9.4
	13.0	-9.3		13.1	-9.5
	13.0	-9.3		13.2	-9.6
	13.0	-9.3		13.2	-9.6
	13.0	-9.3		13.2	-9.6
50	13.0	-9.3	50	13.7	-10.1
	13.0	-9.3		14.5	-10.9
	13.0	-9.3		14.3	-10.7
(3.7)	13.1	-9.4		13.7	-10.1
10:43	13.1	-9.4		13.2	-9.6
1400	13.2	-9.6	1600	13.4	-9.8
(3.6)	13.0	-9.4	10:45	14.0	-10.4
	13.1	-9.5	(3.6)	13.5	-9.9
1430	13.1	-9.5	1630	13.1	-9.5

	STA	- 70+	00	PX.	5-19-47
DIST	SOUND		DIST	SOUND	
1640	12.5	-8.9	1840	13.9	-10.3
50	13.3	-9.7	50	13.9	-10.3
(3.6)	14.0	-10.4	(3.6)	14.1	-10.5
	13.0	-9.4		14.1	-10.5
	12.7	-9.1		13.9	-10.3
	12.8	-9.2	10:48	13.7	-10.1
1700	13.2	-9.6	1900	13.5	-9.9
	13.0	-9.4		13.4	-9.8
	12.4	-8.8		13.0	-9.4
	13.4	-9.8		13.2	-9.6
	13.4	-9.8		13.1	-9.5
50	13.5	-9.9	50	13.4	-9.8
	13.6	-10.0		14.0	-10.4
	13.8	-10.2		14.0	-10.4
	13.5 ~~12.5~~	-9.9		14.0	-10.4
	13.7 ~~12.7~~	-10.1		14.0	-10.4
1800	13.8	-10.2	2000	14.0	-10.4
	13.8	-10.2			
	14.0	-10.4			
1830	14.0	-10.4			

SOUND EAST — STA - 71+00 — PX — 5-19-47 (13)

0+00 = P.O.T. 73.95 (DUNE B/L) : LINES ARE RUN AT 90°00'00" TO B/L

DIST	SOUND		DIST	SOUND	
0+00	+?		200	12.0	-8.6
0+25	0.0	+3.4	(3.4)	12.7	-9.4
11:10 30	—			12.7	-9.4
(3.4) 40	1.0	+2.4		13.0	-9.6
50	2.8	+0.6		13.0	-9.6
	4.2	-0.8	50	14.5	-11.1
	4.4	-1.0		15.0	-11.6
	5.0	-1.6	11:13	15.0	-11.6
	5.2	-1.8		15.1	-11.7
100	6.0	-2.6		15.5	-12.1
	6.5	-3.1	300	15.4	-12.0
	7.0	-3.6		15.4	-12.0
	7.1	-3.7		15.7	-12.3
	7.4	-4.0		15.9	-12.5
50	7.8	-4.4		15.8	-12.4
	8.4	-5.0	50	15.7	-12.3
	9.3	-5.9		15.7	-12.3
	10.4	-7.0	(3.4)	15.7	-12.3
190	11.5	-8.1	380	15.6	-12.2

STA	- 71+ 00	PX	5-19-47
DIST	SOUND		
390	15.3	-11.9	
400	15.8	-12.4	
(3.4)	15.2	-11.8	
	15.0	-11.6	
11:15	14.7	-11.3	
	15.0	-11.6	
50	15.1	-11.7	
	15.0	-11.6	
	14.5	-11.1	
	14.0	-10.6	
	13.4	-10.0	
500	14.0	-10.6	
	12.7	-9.3	
	13.2	-9.8	
	13.0	-9.6	
	14.0	-10.6	
50	13.7	-10.3	
	13.1	-9.7	
	13.2	-9.8	
580	13.6	-10.2	

STA	- 71+ 00	PX	
DIST	SOUND		
590	13.6	-10.2	
600	14.4	-11.0	
(3.4)	14.4	-11.0	
	13.8	-10.4	
	13.4	-10.0	
	13.3	-9.9	
50	13.3	-9.9	
	12.8	-9.4	
	12.7	-9.3	
	12.7	-9.3	
	12.6	-9.2	
700	12.6	-9.2	
	12.7	-9.3	
	12.6	-9.2	
(3.4)	12.6	-9.2	
11:18	12.7	-9.3	
50	12.8	-9.5	
(3.3)	13.0	-9.7	
	13.0	-9.7	
780	12.7	-9.4	

STA	- 71+ 00	PX	
DIST	SOUND		
790	12.9	-9.6	
800	12.9	-9.6	
	12.8	-9.5	
(3.3)	12.6	-9.3	
	13.0	-9.7	
	12.8	-9.5	
50	12.5	-9.2	
	12.5	-9.2	
	12.7	-9.4	
	12.7	-9.4	
	13.4	-10.1	
900	13.4	-10.1	
	13.0	-9.7	
	12.5	-9.2	
	12.3	-9.0	
	12.4	-9.1	
50	13.5	-10.2	
	13.1	-9.8	
11:20	12.8	-9.5	
980	12.5	-9.2	

STA	- 71+ 00	PX	
DIST	SOUND		
990	12.9	-9.6	
1000	12.8	-9.5	
	12.7	-9.4	
(3.3)	12.1	-8.8	
	12.0	-8.7	
	12.2	-8.9	
50	12.0	-8.7	
	11.9	-8.6	
	11.7	-8.4	
	11.9	-8.6	
	12.1	-8.8	
1100	12.4	-9.1	
	12.5	-9.2	
	13.0	-9.7	
	12.8	-9.5	
11:23	13.0	-9.7	
50	13.2	-9.9	
	13.5	-10.2	
(3.3)	14.1	-10.8	
1180	14.4	-11.1	

STA 71+00 5-19-47 PX

DIST	SOUND		DIST	SOUND	
1190	14.0	-10.7	1390	14.0	-10.7
1200	13.7	-10.4	1400	15.0	-11.7
(3.3)	13.5	-10.2	(3.3)	14.1	-10.8
	13.2	-9.9		13.7	-10.4
	13.4	-10.1		13.4	-10.1
	13.6	-10.3		13.8	-10.5
50	13.8	-10.5	50	13.0	-9.7
	13.6	-10.3		12.5	-9.2
	13.5	-10.2		12.6	-9.3
	13.6	-10.3		12.4	-9.1
	13.7	-10.4		12.5	-9.2
1300	13.4	-10.1	1500	12.5	-9.2
	13.3	-10.0		12.5	-9.2
	13.7	-10.4		12.5	-9.2
	14.0	-10.7		12.5	-9.2
11:25	13.8	-10.5		12.4	-9.1
50	13.5	-10.2	50	12.4	-9.1
	13.6	-10.3		12.4	-9.1
	13.6	-10.3	11:28	12.4	-9.1
1380	13.8	-10.5	1580	12.4	-9.1

STA 71+00 5-19-47 PX

DIST	SOUND		DIST	SOUND	
1590	12.0	-8.7	1790	13.1	-9.8
1600	12.0	-8.7	1800	13.0	-9.7
(3.3)	12.2	-8.9	(3.3)	13.0	-9.7
	12.7	-9.4		12.9	-9.6
	12.2	-8.9		12.5	-9.2
	12.0	-8.7		11.6	-8.3
50	12.1	-8.8	50	12.0	-8.7
	12.5	-9.2	1860	12.8	-9.5
	12.0	-8.7	11:32		
	13.0	-9.7			
	13.4	-10.1			
1700	~~15.0~~ 14.1	-10.8			
	14.0	-10.7			
	14.0	-10.7			
	13.4	-10.1			
	13.5	-10.2			
50	13.5	-10.2			
	13.3	-10.0			
11:30	13.1	-9.8			
1780	13.5	-10.2			

SOUND EAST

STA - 72+00 PX 5-19-47

0+00 = R-92+23.96 (DUNE 3/4): LINES ARE RUN AT 90°00'00" TO

DIST	SOUND		DIST	SOUND	
0+00	+?		290	10.2	-7.5
1+13	0.0	+2.7	300	11.4	-8.7
12:28					
20	0.6	+2.1	(2.7)	12.0	-9.3
(2.7)	1.9	+0.8		12.2	-9.5
	5.0	-2.3		12.2	-9.5
50	4.9	-2.2		12.2	-9.5
	5.5	-2.8	50	12.1	-9.4
	5.5	-2.8		13.3	-10.6
	5.4	-2.7		15.6	-12.9
	6.4	-3.7		15.0	-12.3
200	7.1	-4.4		13.5	-10.8
	7.8	-5.1	400	15.3	-10.6
	8.6	-5.9		14.5	-11.8
	9.2	-6.5		14.1	-11.4
12:30					
	9.3	-6.6		13.5	-10.8
50	9.9	-7.2		13.4	-10.7
	10.3	-7.6	50	13.4	-10.7
	7.7	-5.0	12:33	13.0	-10.3
280	7.0	-4.3	470	13.0	-10.3

STA - 72+00 PX. 5-19-47 (17)

DIST	SOUND		DIST	SOUND	
480	13.0	-10.3	680	15.2	-12.5
	13.5	-10.8		15.4	-12.7
500	13.2	-10.5	700	14.5	-11.8
(2.7)	12.8	-10.1	(2.7)	13.5	-10.8
	12.1	-9.4		12.6	-9.9
	12.5	-9.8		12.3	-9.6
	12.3	-9.6		12.3	-9.6
50	13.8	-11.1	50	12.4	-9.7
	13.8	-11.1		13.0	-10.3
	13.0	-10.3		12.7	-10.0
	13.0	-10.3		12.5	-9.8
	12.6	-9.9		12.4	-9.7
600	12.4	-9.7	800	12.1	-9.4
12:35					
	13.1	-10.4		12.0	-9.3
	13.1	-10.4		13.2	-10.5
	13.5	-10.8		13.4	-10.7
	14.1	-11.4		13.2	-10.5
50	14.5	-11.8	50	13.1	-10.4
	15.0	-12.3	(2.7)	12.9	-10.2
670	15.0	-12.3	870	12.8	-10.1

STA - 72 + 00				PX	5-19-47
DIST	SOUND		DIST	SOUND	
880	12.7	-10.0	1080	13.0	-10.4
	12.5	-9.8		13.2	-10.6
900	12.5	-9.8	1100	13.1	-10.5
(2.7)	12.5	-9.8		13.0	-10.4
12:38	12.4	-9.7	12:40	13.0	-10.4
(2.6)	12.0	-9.4	(2.6)	12.7	-10.1
	11.8	-9.2		12.2	-9.6
50	11.0	-8.4	50	12.5	-9.9
	11.0	-8.4		11.8	-9.6
	11.3	-8.7		11.5	-9.3
	12.6	-10.0		12.0	-9.4
	13.6	-11.0		11.4	-8.8
1000	13.9	-11.3	1200	12.5	-9.9
	13.9	-11.3		12.6	-10.0
	14.7	-12.1		12.8	-10.2
	14.7	-12.1		13.1	-10.5
	14.3	-11.7		12.8	-10.2
50	14.0	-11.4	50	13.0	-10.4
	13.9	-11.3		12.7	-10.1
1070	13.4	-10.8	1270	12.7	-10.1

STA - 72 + 00				PX	5-19-47 (18)
DIST	SOUND		DIST	SOUND	
1280	12.6	-10.0	1480	13.0	-10.4
	12.5	-9.9	12:45	13.1	-10.5
1300	12.5	-9.9	1500	13.1	-10.5
(2.6)	12.4	-9.8	(2.6)	13.0	-10.4
12:43	12.4	-9.8		12.9	-10.3
	12.3	-9.7		12.6	-10.0
	12.3	-9.7		12.1	-9.5
50	12.3	-9.7	50	12.0	-9.4
	12.4	-9.8		12.0	-9.4
	12.4	-9.8		12.1	-9.5
	12.4	-9.8		12.0	-9.4
	12.8	-10.2		11.7	-9.1
1400	12.8	-10.2	1600	11.9	-9.3
	13.0	-10.4		12.0	-9.4
	13.8	-11.2		11.7	-9.1
	14.0	-11.4		11.7	-9.1
	13.7	-11.1		12.0	-9.4
50	13.6	-11.0	50	12.0	-9.4
	13.4	-10.8	(2.6)	12.0	-9.4
1470	13.1	-10.5	1670	11.8	-9.2

	STA- 72+00			PY,	5-19-47
DIST	SOUND		DIST	SOUND	
1680	11.7	-9.1			
12:48	11.6	-9.0			
1700	11.6	-9.0			
(2.6)	12.1	-9.5			
	12.3	-9.7			
	12.7	-10.1			
	12.7	-10.1			
50	12.7	-10.1			
	12.8	-10.2			
	12.8	-10.2			
	12.5	-9.9			
	12.6	-10.0			
1800	12.7	-10.1			
	12.5	-9.9			
	12.4	-9.8			
	12.3	-9.7			
	12.1	-9.5			
50	12.3	-9.7			
12:51	12.0	-9.4			
1870	12.0	-9.4			

SOUND EAST	STA- 73+00 PY		5-19-47		(19)
0+00=RANGE	92+23.96 (CONE B/L) : LINES ARE RUN AT 90°00'00" TO B/L				
DIST	SOUND		DIST	SOUND	
0+00	+?		350	10.2	-7.8
465	0.0	+2.4	13:10	10.0	-7.6
1+80	1.2	+1.2	(2.4)	10.0	-7.6
13:08	3.0	-0.6		9.5	-7.1
200	3.5	-1.1		9.0	-6.6
(2.4)	4.8	-2.4	4.00	9.8	-7.4
	6.0	-3.6		10.2	-7.8
	6.8	-4.4		10.4	-8.0
	6.7	-4.3		10.4	-8.0
50	7.4	-5.0		14.0	-11.6
	8.4	-6.0	50	14.0	-11.6
	9.0	-6.6		13.2	-10.8
	9.5	-7.1		12.5	-10.1
	9.7	-7.3		12.7	-10.3
300	9.8	-7.4		12.3	-9.9
	9.7	-7.3	500	12.0	-9.6
	9.5	-7.1		12.0	-9.6
	9.2	-6.8	(2.4)	12.4	-10.0
340	9.0	-6.6	530	12.0	-9.6

STA- 73+00 PX. 5-19-47

DIST	SOUND		DIST	SOUND	
540	11.5	-9.1	740	11.8	-9.4
50	11.0	-8.6	50	12.1	-9.7
(2.4)	11.0	-8.6	(2.4)	12.5	-10.1
	11.3	-8.9		13.0	-10.6
	12.4	-10.0		13.3	-10.9
13:13	12.0	-9.6		13.0	-10.6
600	13.0	-10.6	800	13.0	-10.6
	13.0	-10.6		13.0	-10.6
	13.1	-10.7	13:15	12.9	-10.5
	13.0	-10.6		12.7	-10.3
	12.8	-10.4		12.4	-10.0
50	12.7	-10.3	50	12.3	-9.9
	12.5	-10.1		12.0	-9.6
	12.4	-10.0		11.5	-9.1
	12.3	-9.9		13.2	-10.8
	12.0	-9.6		13.7	-11.3
700	12.0	-9.6	900	12.0	-9.6
	12.0	-9.6		11.6	-9.2
	12.0	-9.6		11.5	-9.1
730	11.5	-9.1	930	11.5	-9.1

STA- 73+00 PX. 5-19-47

DIST	SOUND		DIST	SOUND	
940	11.8	-9.4	1140	12.4	-10.1
50	12.0	-9.6	50	12.3	-10.0
(2.4)	12.2	-9.8		12.1	-9.8
	12.2	-9.8	(2.3)	12.4	-10.1
	12.0	-9.6		12.6	-10.3
	12.0	-9.6		12.7	-10.4
1000	12.0	-9.6	1200	13.2	-10.9
	12.1	-9.7		13.6	-11.3
	12.1	-9.7		13.6	-11.3
(2.4)	12.1	-9.7		13.5	-11.2
13:18	12.3	-9.9		13.5	-11.2
50	12.6	-10.3	50	13.4	-11.1
(2.3)	12.6	-10.3		13.0	-10.7
	12.6	-10.3	13:20	12.7	-10.4
	12.4	-10.1		12.5	-10.2
	12.4	-10.1		12.3	-10.0
1100	12.4	-10.1	1300	12.2	-9.9
	12.4	-10.1		12.3	-10.0
	12.4	-10.1	(2.3)	12.7	-10.4
1130	12.4	-10.1	1330	12.7	-10.4

STA - 73+00 PX 5-19-47

DIST	SOUND		DIST	SOUND	
1340	12.8	-10.5	1540	12.0	-9.7
50	12.9	-10.6	13:23 50	12.2	-9.9
(2.3)	12.7	-10.4	(2.3)	12.5	-10.2
	12.3	-10.0		12.3	-10.0
	12.0	-9.7		12.0	-9.7
	11.8	-9.5		11.8	-9.5
1400	11.9	-9.6	1600	12.0	-9.7
	12.0	-9.7		12.0	-9.7
	11.8	-9.5		12.0	-9.7
	11.7	-9.4		12.0	-9.7
	11.5	-9.2		12.3	-10.0
50	11.5	-9.2	50	12.5	-10.2
	11.9	-9.6		12.4	-10.1
	11.9	-9.6		12.4	-10.1
	11.9	-9.6		12.0	-9.7
	12.0	-9.7	13:25	12.0	-9.7
1500	12.0	-9.7	1700	11.9	-9.6
	12.0	-9.7		11.8	-9.5
	12.0	-9.7		11.7	-9.4
1530	12.0	-9.7	1730	11.7	-9.4

STA - 73+00 5-19-47 PX (21)

DIST	SOUND	
1740	11.6	-9.3
50	11.7	-9.4
	11.5	-9.2
	11.2	-8.9
	12.0	-9.7
	11.5	-9.2
1800	11.5	-9.2
	11.8	-9.5
	12.0	-9.7
	12.5	-10.2
	12.0	-9.7
50	11.8	-9.5
1860	12.0	-9.7
13:28		
(2.3)		

SOUND EAST — STA. 74+00 PX. — 5-19-47

0+00 = RANGE - 32+23.96 (DUNE B/L : LINES ARE RUN AT 90°00'00" TO B/L

DIST	SOUND		DIST	SOUND	
0+00	+?		390	9.7	-7.6
2+10	0.0	+2.1	400	9.0	-6.9
14:08	0.6	+1.5	(2.1)	9.0	-6.9
(2.1)	2.5	-0.4		8.4	-6.3
	4.3	-2.2	14:10	8.0	-5.9
50	5.7	-3.6		7.2	-5.1
	6.4	-4.3	50	7.9	-5.8
	7.4	-5.3		8.5	-6.4
	7.4	-5.3		8.8	-6.7
	8.3	-6.2		9.3	-7.2
300	8.7	-6.6		10.0	-7.9
	9.0	-6.9	500	10.1	-8.0
	9.1	-7.0		10.4	-8.3
	9.1	-7.0		13.0	-10.9
	9.1	-7.0		13.7	-11.6
50	9.7	-7.6		13.0	-10.9
	10.2	-8.1	50	12.6	-10.5
	10.2	-8.1		12.6	-10.5
380	9.5	-7.4	570	14.2	-12.1

STA. 74+00 PX. — 5-19-47 — (52)

DIST	SOUND		DIST	SOUND	
580	14.2	-12.1	780	11.8	-9.7
	14.0	-11.9		12.2	-10.1
600	13.7	-11.6	800.	12.7	-10.6
(2.1)	13.1	-11.0	(2.1)	11.8	-9.7
	12.7	-10.6		11.5	-9.4
	12.4	-10.3		11.6	-9.5
	12.0	-9.9		11.6	-9.5
50	12.0	-9.9	50	11.0	-8.9
	12.0	-9.9		10.8	-8.7
	11.6	-9.5	14:15	10.5	-8.4
	11.6	-9.5		10.5	-8.4
	11.5	-9.4		10.6	-8.5
700	11.9	-9.8	900	10.8	-8.7
	12.7	-10.6		11.0	-8.9
14:12	12.4	-10.3		11.0	-8.9
	11.7	-9.6		11.1	-9.0
	11.5	-9.4		11.0	-8.9
50	11.4	-9.3	50	10.8	-8.7
	11.5	-9.4	(2.1)	10.9	-8.8
770	11.4	-9.3	970	11.0	-8.9

STA - 74+00 PX 5-19-17

DIST	SOUND		DIST	SOUND	
980	11.0	-8.9	1180	11.5	-9.4
(2.1)	11.5	-9.4	(2.1)	11.8	-9.7
1000	11.5	-9.4	1200	12.1	-10.0
	11.6	-9.5		13.0	-10.9
	11.8	-9.7		13.2	-11.1
	11.9	-9.8		13.0	-10.9
	11.7	-9.6		12.5	-10.4
50	11.8	-9.7	50	12.0	-9.9
	12.2	-10.1		12.8	-10.7
	11.8	-9.7		13.1	-11.0
	12.0	-9.9		13.0	-10.9
	11.8	-9.7		12.7	-10.6
1100	12.7	-10.6	1300	12.5	-10.4
	12.4	-10.3	14:20	12.4	-10.3
	12.1	-10.0		12.4	-10.3
14:18	11.0	-8.9		12.0	-9.9
	11.8	-9.7		11.9	-9.8
50	11.7	-9.6	50	11.9	-9.8
	11.4	-9.3		11.8	-9.7
1170	11.5	-9.4	1370	11.5	-9.4

STA - 74+00 PX. 5-19-17 (23)

DIST	SOUND		DIST	SOUND	
1380	11.3	-9.2	1580	10.5	-8.4
	11.0	-8.9		10.8	-8.7
1400	11.8	-9.7	1600	10.8	-8.7
(2.1)	12.0	-9.9	(2.1)	11.0	-8.9
	12.0	-9.9		11.1	-9.0
	12.0	-9.9		11.2	-9.1
	11.7	-9.6		11.1	-9.0
50	11.6	-9.5	50	11.1	-9.0
	11.5	-9.4		11.2	-9.1
	11.5	-9.4		11.2	-9.1
	11.0	-8.9		11.0	-8.9
	10.5	-8.4		11.2	-9.1
1580	10.3	-8.2	1700	11.2	-9.1
	10.5	-8.4		11.5	-9.4
	10.5	-8.4		11.8	-9.7
	10.7	-8.6		12.2	-10.1
	10.5	-8.4		12.5	-10.4
50	10.7	-8.6	50	12.4	-10.3
14:33	10.7	-8.6	(2.1)	12.4	-10.3
1570	10.6	-8.5	1770	12.4	-10.3

STA- 74+00 PX 5-19-47

DIST	SOUND	
1780	12.4	-10.3
	12.3	-10.2
1800	12.2	-10.1
	12.0	-9.9
	11.8	-9.7
	11.5	-9.4
	11.0	-8.9
18+50	11.0	-8.9
(2.1)		

DIST	SOUND

SOUND EAST STA- 75+00 PX

0+00 = R-92+23.96 (DUNE B/L) ; LINES ARE RUN AT 90°00'00" TO B/L

DIST	SOUND	
0+00	+ ?	
2+27	0.0	+2.1
14:38 40	1.0	+1.0
50	5.0	-2.9
(2.1)	6.7	-4.6
	7.0	-4.9
	7.3	-5.2
	8.0	-5.9
300	8.8	-6.7
	9.2	-7.1
	9.4	-7.3
	9.4	-7.3
	9.4	-7.3
50	9.5	-7.4
	9.4	-7.3
	9.0	-6.9
	9.2	-7.1
	9.2	-7.1
400	8.8	-6.7
410	8.7	-6.6

DIST	SOUND	
420	8.5	-6.4
	9.0	-6.9
(2.1)	9.5	-7.4
50	10.0	-7.9
	10.3	-8.2
	11.3	-9.2
	11.7	-9.6
	11.0	-8.9
500	10.7	-8.7
	11.2	-9.1
	12.2	-10.1
	12.2	-10.1
14:43	12.2	-10.1
50	12.5	-10.4
	12.2	-10.1
	12.0	-9.9
	12.0	-9.9
(2.1)	11.7	-9.6
600	11.7	-9.6

STA - 75+00 PX 5-19-47

DIST	SOUND		DIST	SOUND	
610	11.6	-9.5	810	11.6	-9.5
(2.1)	11.0	-8.9	14:45	12.4	-10.3
	10.5	-8.4	(2.1)	12.0	-9.9
	11.0	-8.9		12.0	-9.9
50	11.0	-8.9	50	12.5	-10.4
	10.5	-8.4		12.5	-10.4
	10.3	-8.2		12.4	-10.3
	~~8.0~~ 10.0	-7.9		12.3	-10.2
	~~8.8~~ 10.0	-7.9		12.3	-10.2
700	~~9.2~~ 10.3	-8.2	900	12.3	-10.2
	~~9.4~~ 12.4	-10.3		12.2	-10.1
	~~9.4~~ 12.8	-10.7		11.8	-9.8
	~~9.4~~ 12.4	-10.3		11.5	-9.6
	~~9.5~~ 11.5	-9.4		11.5	-9.6
50	~~9.4~~ 11.2	-9.1	50	11.5	-9.6
	9.5	-7.4		11.9	-9.8
	10.5	-8.4		11.9	-9.8
	10.4	-8.3		12.4	-10.3
	10.4	-8.3		12.0	-9.9
800	10.6	-8.5	1000	12.0	-9.9

STA - 75+00 PX, 5-19-47 (35)

DIST	SOUND		DIST	SOUND	
1010	13.1	-11.0	1210	13.0	-10.9
	13.0	-10.9		13.2	-11.1
(2.1)	12.2	-10.1		13.2	-11.1
	12.0	-9.9		13.3	-11.2
50	12.0	-9.9	50	13.1	-11.0
	12.0	-9.9		12.7	-10.6
	12.4	-10.3		12.1	-10.0
12:18	13.6	-11.5		12.4	-10.2
	13.6	-11.5	(2.1)	12.5	-10.4
1100	13.0	-10.9	1300	12.9	-10.8
	12.8	-10.7		13.1	-11.0
	12.5	-10.4	14:50	13.0	-10.9
	12.3	-10.2	(2.1)	12.7	-10.6
	12.0	-9.9		12.8	-10.7
50	13.1	-11.0	50	12.5	-10.4
	13.4	-11.3		12.2	-10.1
	13.2	-11.1		12.0	-9.9
	13.0	-10.9		12.0	-9.9
	12.8	-10.7		12.0	-9.9
1200	12.8	-10.7	1400	12.0	-9.9

STA- 75+00 P.X

DIST	SOUND		DIST	SOUND	
1410 ~~0100~~	12.4	-10.3	1610	11.6	-9.5
~~2127~~	12.7 ~~0.0~~	-10.6		11.8	-9.7
(2.1)	13.0 ~~1.0~~	-10.9	(2.1)	11.8	-9.7
	12.5 ~~5.0~~	-10.4		11.8	-9.7
50	11.8 ~~6.7~~	-9.7	50	11.8	-9.[illegible]
	11.0 ~~7.0~~	-8.9	19.53	12.0	-9.[illegible]
	11.0 ~~7.7~~	-8.9		12.1	-10[illegible]
	11.3	-9.2		12.1	-10[illegible]
	11.3	-9.2		12.2	-1[illegible]
1500	11.3	-9.2	1700	12.7	-10[illegible]
	11.4	-9.3		12.7	-10[illegible]
	11.5	-9.4		12.4	-10.[illegible]
	11.5	-9.4		11.8	-9.[illegible]
	11.5	-9.4		11.8	-9.7
50	11.4	-9.3	50	11.8	-9.7
	11.4	-9.3		11.7	-9.6
	11.4	-9.3		11.4	-9.3
	11.4	-9.3		11.3	-9.[illegible]
	11.4	-9.3		11.3	-9.[illegible]
1600	11.5	-9.4	1800	11.2	-9.[illegible]

P.X STA - 75+00 5-19-47

DIST	SOUND		DIST	SOUND
1810	11.2	-9.1		
	11.3	-9.2		
(2.1)	11.3	-9.2		
	11.2	-9.1		

SOUND EAST — STA -76+00 — P.X. — 5-19

0+00 = R-92+23.96 (DUNE 3/4) : LINES ARE RUN AT 90°00'00" TO 3/4

DIST	SOUND		DIST	SOUND	
0+00	+?		400	9.0	-6.8
2+17	9.0	+2.2		9.0	-6.8
15:06					
30	2.5	-0.3		9.3	-7.1
(2.2)	4.1	-1.9	(2.2)	10.3	-8.1
50	6.4	-4.2		10.4	-8.2
	7.8	-5.6	50	10.0	-7.8
	8.7	-6.5		10.1	-7.9
	9.4	-7.2		10.9	-8.7
	9.8	-7.6		10.3	-8.1
300	10.0	-7.8	15:08	10.0	-7.8
	10.1	-7.9	500	11.2	-9.0
	10.1	-7.9		11.3	-9.1
	10.0	-7.8		12.5	-10.3
	10.0	-7.8		12.6	-10.4
50	10.0	-7.8		12.4	-10.2
	10.0	-7.8	50	12.4	-10.2
	10.1	-7.9		12.2	-10.0
	9.8	-7.6		12.4	-10.2
390	9.7	-7.5	580	12.4	-10.2

STA -76+00 — 5-19-47 — P.X — (27)

DIST	SOUND		DIST	SOUND	
590	12.3	-10.1	790	12.0	-9.8
600	12.0	-9.8	800	14.0	-11.8
	11.4	-9.2		14.0	-11.8
	12.0	-9.8		13.6	-11.4
(2.2)	12.8	-10.6	(2.2)	13.0	-10.8
	12.6	-10.4		13.2	-11.0
50	12.6	-10.4	50	13.3	-11.1
	12.4	-10.2		13.3	-11.1
	12.3	-10.1		13.0	-10.8
	12.4	-10.2		12.7	-10.5
15:10					
	12.5	-10.3		13.1	-10.9
700	12.5	-10.3	900	13.4	-11.2
	12.7	-10.5		11.5	-9.3
	12.8	-10.6	920	5.0	-2.8
	12.7	-10.5	15:14		
	12.4	-10.2			
50	12.1	-9.9	50		
	12.3	-10.1			
	12.3	-10.1	(2.2)		
780	12.3	-10.1			

SOUND EAST — STA - 67+00 — 5-21-47

0+00 = RANGE LINE 110+00 : LINES AGE RUN AT 90°00'00" TO R/L

DIST	SOUND		DIST	SOUND	
0+00	+?		240	12.1	-9.2
09:14					
0+65	0.0	+2.8	50	12.0	-9.1
70	1.0	+1.8	(2.9)	11.8	-8.9
(2.8)	3.1	-0.3	09:18	11.4	-8.5
	3.1	-0.3		12.4	-9.5
100	3.8	-1.0		12.4	-9.5
	3.9	-1.1	300	12.4	-9.5
	5.2	-2.4		12.4	-9.5
	6.8	-4.0		12.5	-9.6
	7.6	-4.8		12.5	-9.6
50	7.8	-5.0		12.6	-9.7
	8.7	-5.9	30	12.7	-9.8
	11.2	-8.4		12.8	-9.9
	11.7	-8.9		12.5	-9.6
	11.8	-9.0		12.0	-9.1
200	11.9	-9.1		12.0	-9.1
(2.8)	12.1	-9.3	400	12.0	-9.1
	12.2	-9.4	09:20	12.0	-9.1
230	12.3	-9.5	420	11.7	-8.8

STA - 67+00 — 5-21-47 — (28)

DIST	SOUND		DIST	SOUND
430	11.2	-8.3		
(2.9)	11.2	-8.3		
50	11.4	-8.5		
	15.0	-12.1		
	15.0	-12.1		
	14.1	-11.2		
	13.0	-10.1		
500	10.5	-7.6		
	6.8	-3.9		
	6.5	-3.6		
	3.0	-0.1		
534	0.0	+2.9		

SOUND WEST — STA - 68+00 — 5-21-47

0+00 = PT. - 540' W. OF CAUSEWAY B/L : LINES ARE RUN AT 81° 23' 44" To

DIST	SOUND		DIST	SOUND	
	EDGE CUT				
0+02			190	11.8	-8.4
10:18					
10	4.3	-0.9	200	11.7	-8.3
(3.4)	9.4	-6.0	(3.4)	12.3	-8.9
	12.0	-8.6		12.9	-9.5
	12.0	-8.6		12.4	-9.0
50	12.0	-8.6		12.4	-9.0
	12.0	-8.6	50	12.8	-9.4
	12.3	-8.9		12.5	-9.1
	12.3	-8.9		12.2	-8.8
	12.5	-9.1		12.2	-8.8
100	12.6	-9.2		12.2	-8.8
	12.5	-9.1	300	12.3	-8.9
	12.5	-9.1	10:23	12.3	-8.9
	11.7	-8.3		12.3	-8.9
	11.0	-7.6		12.4	-9.0
50	11.0	-7.6		12.5	-9.1
	11.0	-7.6	50	12.8	-9.4
	11.3	-7.9		12.7	-9.3
180	11.7	-8.3	370	12.5	-9.1

STA - 68+00

DIST	SOUND			DIST	SOUND	
380	12.5	-9.1		580	13.0	-9.5
10:26						
	12.5	-9.1			13.2	-9.7
400	12.5	-9.1		600	13.2	-9.7
(3.4)	12.6	-9.2		(3.5)	14.1	-10.6
	12.1	-8.7			13.7	-10.2
	12.0	-8.6			13.7	-10.2
	11.8	-8.4	X		13.6	-10.1
50	12.4	-9.0		50	14.0	-10.5
	12.8	-9.4			14.1	-10.6
	12.8	-9.4			14.8	-11.3
	13.3	-9.9			17.5	-14.0
	13.0	-9.6	X		16.8	-13.3
500	13.0	-9.6		700	15.0	-11.5
	12.8	-9.4			15.0	-11.5
	13.0	-9.6			15.0	-11.5
(3.4)	13.0	-9.6			15.6	-12.1
10:28	12.8	-9.4	X		16.0	-12.5
10:31						
50	13.5	-10.0		50	16.0	-12.5
(3.5)	13.5	-10.0			16.4	-12.9
570	13.0	-9.5		770	16.7	-13.2

DIST	STA SOUND	- 68+	00 DIST	SOUND	5-21-47
780	16.2	-12.7	980	13.1	-9.6
X (3.5)	16.2	-12.7		13.1	-9.6
800	16.0	-12.5	1000	13.1	-9.6
	16.0	-12.5	(3.5)	12.9	-9.4
	15.7	-12.2		12.9	-9.3
	15.5	-12.0	(3.6)	12.9	-9.3
X	15.0	-11.5	X	12.9	-9.3
50	15.0	-11.5	50	12.8	-9.2
	15.3	-11.8		12.7	-9.1
	16.5	-13.6		12.7	-9.1
10:40	16.0	-12.5	10:43	13.0	-9.4
X	15.2	-11.7	X	12.8	-9.2
900	14.0	-10.5	1100	12.7	-9.1
	13.0	-9.5		12.7	-9.1
	12.8	-9.3		13.7	-10.1
	12.7	-9.2		14.1	-10.5
X	12.7	-9.2	X	13.2	-9.6
50	12.5	-9.0	50	13.3	-9.7
	13.0	-9.5		13.4	-9.8
970	13.1	-9.6	1170	14.5	-9.9

DIST	STA SOUND	- 68+	00 DIST	5-21-47 SOUND	
1180	14.0	-10.4	1380	13.4	-9.8
	13.1	-9.5		13.3	-9.7
1200	13.2	-9.6	1400	12.8	-9.2
	13.0	-9.4		12.8	-9.2
10:45	13.0	-9.4	10:48	13.7	-10.1
(3.6)	13.0	-9.4	(3.6)	13.4	-9.8
	13.0	-9.4	X	12.5	-8.9
50	13.4	-9.8	50	12.4	-8.8
	13.7	-10.1		12.1	-8.5
	13.9	-10.3		12.4	-8.8
	14.0	-10.4		12.9	-9.3
	14.3	-10.7		13.1	-9.5
1300	14.5	-10.9	1500	13.0	-9.4
	14.7	-11.1		13.0	-9.4
	15.0	-11.4		12.7	-9.1
	14.7	-11.1		12.5	-8.9
X	14.5	-10.9	X	12.6	-9.0
50	14.5	-10.9	50	13.0	-9.4
	14.0	-10.4		13.2	-9.6
1370	13.6	-10.0	1570	13.2	-9.6

STA - 68+00 5-21-47

DIST	SOUND	
1580	13.5 ~~12.5~~	-9.9
10:50	13.5	-9.9
1600	13.5	-9.9
(3.6)	13.5	-9.9
	13.1	-9.5
	13.1	-9.5
X	13.1	-9.5
50	13.2	-9.6
	13.1	-9.5
	13.0	-9.4
	12.9	-9.3
	13.1	-9.5
1700	13.5	-9.9
	13.9	-10.3
	14.0	-10.4
	14.0	-10.4
X	14.0	-10.4
50	14.1	-10.5
	14.1	-10.5
1770	14.1	-10.5

DIST	SOUND	
1780	14.3	-10.7
	14.3	-10.7
1800	14.7	-11.1
10:53	15.0	-11.4
(3.6)	15.3	-11.7
	15.3	-11.7
X	15.0	-11.4
50	14.9	-11.3
	14.4	-10.8
	14.0	-10.4
	13.6	-10.0
	13.4	-9.8
1900	13.4	-9.8
10:55	13.7	-10.1
	14.0	-10.4
	14.2	-10.6
X	14.4	-10.8
50	14.7	-11.1
	15.0	-11.4
1970	15.0	-11.4

STA - 68+00 5-21-47

DIST	SOUND	
1980	15.0	-11.4
(3.6)	14.8	-11.2
2000	14.8	-11.2
	15.1	-11.5
	15.5	-11.9
	16.0	-12.4
(3.5)	16.0	-12.4
50	16.0	-12.4
10:58	16.1	-12.5
(3.7)	16.0	-12.4
	16.0	-12.4
	16.5	-12.9
2100	16.3	-12.7
	16.3	-12.6
	16.7	-13.0
11:00	16.8	-13.1
X	16.7	-13.0
50	16.5	-12.8
	16.5	-12.8
2170	16.6	-12.9

DIST	SOUND	
2180	17.3	-13.6
	16.8	-13.1
2200	17.0	-13.3
(3.7)	17.4	-13.7
	17.2	-13.5
	17.0	-13.3
X	16.7	-13.0
50	16.4	-12.7
	16.5	-12.8
	16.4	-12.7
11:03	16.5	-12.8
	16.8	-13.1
2300	16.5	-12.8
	16.3	-12.6
	16.3	-12.6
	16.5	-12.8
	16.8	-13.1
50	16.0	-12.3
	15.4	-11.7
2370	15.4	-11.7

STA - 6870 00 — 5-21-47

DIST	SOUND	
2380	15.1	-11.4
(3.7)	15.1	-11.4
2400	15.2	-11.5
	15.0	-11.3
	15.3	-11.6
	15.3	-11.6
X	15.0	-11.3
50	14.8	-11.1
	14.5	-10.8
	14.5	-10.8
	14.8	-11.1
	15.2	-11.5
2500	14.0 ~~14.0~~	-10.3
	13.0	-9.3
	13.4	-9.7
	11.5	-7.8
X 2540	11.1	-7.4
11:08		

DIST	SOUND

STA - 6970 00 — 5-21-47 (32)

SOUND WEST

0+00 = Pt. - 560'W of Causeway B/L — LINES ARE RUN AT 81°39'44" TO B/L

DIST	SOUND		DIST	SOUND	
0+00	+7 EDGE CUT		180	13.8	-10.1
11:21				13.8	-10.1
0+05					
0+10	1.0	+3.7	200	13.6	-9.9
(3.7)	3.0	+0.7	(3.7)	13.8	-10.1
	8.4	-4.7		13.9	-10.2
	11.1	-7.4		14.4	-10.7
50	11.1	-7.4		14.4	-10.7
	11.0	-7.3	50	13.4	-9.7
	10.9	-7.2	11:25	12.3	-8.6
	11.0	-7.3		14.0	-10.3
	11.2	-7.5		15.4	-11.7
100	11.3	-7.6		15.0	-11.3
	11.6	-7.9	300	14.5	-10.8
	11.8	-8.1		15.0	-11.3
	11.7	-8.0		15.2	-11.5
	12.5	-8.8		14.7	-11.0
50	12.5	-8.8		14.4	-10.7
	12.0	-8.3	50	16.1	-12.4
170	13.7	-10.0	360	16.8	-13.1

STA- 69+00 5-21-47

DIST	SOUND		DIST	SOUND	
370	17.0	-13.3	570	17.0	-13.3
	19.2	-15.5		16.5	-12.8
(3.7)	18.5	-14.8	(3.7)	16.0	-12.3
400	18.2	-14.5	600	15.6	-11.9
	19.4	-15.7		15.0	-11.3
	20.0	-16.3		14.6	-10.9
	20.0	-16.3		14.5	-10.8
	19.5	-15.8		14.3	-10.6
50	20.0	-16.3	50	14.7	-11.0
	19.8	-16.1	660	14.7	-11.0
11:28	19.8	-16.1	11:27		
11:35	17.8	-14.1			
	17.0	-13.3			
500	21.0	-17.3			
	21.2	-17.5			
	21.0	-17.3			
	20.0	-16.3			
	18.1	-14.4			
50	18.0	-14.3			
560	17.6	-13.9			

SOUND WEST STA- 70+00 5-21-47 (33)

0+00 = PT. 430' W OF CAUSEWAY B/L: LINES ARE RUN AT 90°00'00" TO B/L

DIST	SOUND		DIST	SOUND	
0+00	+?		200	14.5	-10.8
11:45				14.1	-10.4
0+20	0.0	+3.7		14.3	-10.6
0+30	1.5	+2.2	11:48		
(3.7)	2.0	+1.7		14.0	-10.3
50	2.6	+1.1	(3.7)	14.0	-10.3
	3.0	+0.7	50	14.5	-10.8
	4.1	-0.4		14.9	-11.2
	6.0	-2.3		14.6	-10.9
	8.2	-4.5		14.8	-11.1
100	10.0	-6.3		16.0	-12.3
	10.9	-7.2	300	17.0	-13.3
	11.0	-7.3		17.0	-13.3
	11.1	-7.4		17.7	-14.0
	11.5	-7.8		17.5	-13.8
50	13.0	-9.3		17.0	-13.3
	14.4	-10.7	50	18.8	-15.1
	14.0	-10.3		17.2	-13.5
	13.7	-10.0		15.0	-11.3
190	13.8	-10.1	380	14.4	-10.7

STA. 70+00 — 5-21-47

DIST	SOUND		DIST	SOUND
390	16.4	-12.7		
400	16.5	-12.8		
(3.7)	16.5	-12.8		
	16.0	-13.3		
	15.8	-13.1		
	15.5	11 -12.8		
50	15.0	-11.3		
	15.0	-11.3		
	14.7	-11.0		
	14.7	-11.0		
	16.3	-12.6		
500	16.3	-12.6		
	15.0	-11.3		
	14.2	-10.5		
	14.0	-10.3		
	14.0	-10.3		
50	13.0	-9.3		
	13.0	-9.3		
570	13.0	-9.3		
11:50				

PROFILE ALONG W. SIDE - — 5-21-47 (34)

- SOUTH CAUSEWAY BRIDGE

SOUND SOUTH ALONG W. CAUSEWAY B/L X

0+00 = 80+05

DIST	SOUND		DIST	SOUND	
0+00	10.5 ~~11.5~~	-7.1	170	15.0	-11.6
12:47 10	14.0 ~~13.2~~	-10.6		16.0	-12.6
(3.4)	18.5 ~~18.0~~	-15.1	(3.4)	15.2	-11.8
	14.5 ~~18.0~~	-11.1	200	14.3	-10.9
	12.0	-8.6		15.4	-12.0
50	9.4	-6.0		16.0	-12.6
	9.4	-6.0		15.0	-11.6
	9.5	-6.1		13.7	-10.3
	10.2	-6.8	50	14.8	-11.4
	12.5	-9.1		14.0	-10.6
100	15.0	-11.6	12:55	12.9	-9.5
12:52	14.7	-11.3		14.3	-10.9
	14.0	-10.6		14.8	-11.4
	14.1	-10.7	300	12.7	-9.3
	15.0	-11.6		12.5	-9.1
50	15.4	-12.0		15.0	-11.6
160	14.5	-11.1	330	13.7	-10.3

W/SIDE S/CAUSEWAY BRIDGE 5-21-47

DIST	SOUND		DIST	SOUND	
340	12.0	-8.6	540	13.0	-9.7
50	14.1	-10.7	50	14.7	-11.4
(3.4)	14.3	-10.9	13:00	13.0	-9.7
	13.0	-9.6	(3.3)	13.0	-9.7
	11.1	-7.7		14.1	-10.8
	10.3	-6.9		13.2	-9.9
400	13.2	-9.8	600	13.0	-9.7
	14.5	-11.1		14.5	-11.2
(3.4)	13.2	-9.8		16.0	-12.7
12:58	11.4	-8.0		15.2	-11.9
(3.3)	13.4	-10.0		15.0	-11.7
50	13.0	-9.6	50	15.0	-11.7
	11.0	-7.6		14.0	-10.7
	11.0	-7.6		12.6	-9.3
	12.3	-8.9		12.3	-9.2
	11.2	-7.8		11.5	-8.2
500	10.0	-6.6	700	10.4	-7.1
	12.1	-8.7		10.1	-6.8
	11.8	-8.4	13:09	8.0	-4.7
530	12.0	-8.6	730 740	4.0 0.5	-0.7 +2.8

PROFILE ALONG EAST SIDE-SOUTH CAUSEWAY BRIDGE 5-21-47 (35)

SOUND SOUTH ALONG EAST CAUSEWAY B/L

0+00 = 80+12

DIST	SOUND		DIST	SOUND	
0+00	11.4	-8.1	170	18.0	-14.7
13:11	15.5	-12.2		18.0	-14.7
(3.3)	17.0	-13.7	(3.3)	16.3	-13.0
	19.1	-15.8	200	16.8	-13.5
	19.8	-16.5		16.5	-13.2
50	18.0	-14.7		15.8	-12.5
	15.7	-12.4	13:15	14.0	-10.7
	17.5	-14.2		14.3	-11.0
	16.8	-13.5	50	15.0	-11.7
	15.0	-11.7		13.8	-10.5
100	17.4	-13.1		11.1	-7.8
	17.5	-13.2		13.5	-10.2
	16.0	-12.7		13.0	-9.7
	16.0	-12.7	300	11.0	-7.7
	17.2	-13.9		11.0	-7.7
50	17.4	-14.1		13.0	-9.7
160	16.0	-12.7	330	12.0	-8.7

EAST SIDE S/CAUSEWAY BRIDGE

DIST	SOUND		DIST	SOUND	
340	9.5	-6.2	540	12.8	-9.6
Y 350	15.0	-11.7	550	14.0	-10.8
	13.5	-10.2		12.1	-8.9
	11.0	-7.7	(3.2)	12.7	-9.6
	9.7	-6.4		15.3	-12.1
	8.7	-5.3		15.5	-12.3
X 400	13.0	-9.7	600	15.0	-11.8
	13.4	-10.1		18.2	-15.0
	10.2	-6.9		18.0	-14.8
	12.0	-8.7		16.7	-13.5
	12.4	-9.1	13:22	16.0	-12.8
450	11.0	-7.7	650	16.6	-13.4
(3.3)	8.8	-5.5		15.7	-12.5
13:10					
	11.5	-7.2		15.0	-11.8
(3.2)	12.0	-8.7		13.6	-10.4
	10.0	-6.7		14.0	-11.8
500	8.4	-5.2	700	10.2	-7.0
	12.3	-9.1		10.5	-7.5
	10.8	-7.6		11.3	-8.1
530	9.2	-6.0	730	9.5	-6.3

E/SIDE S/CAUSEWAY BRIDGE

DIST	SOUND		DIST	SOUND	
740	9.0	-5.8			
750	8.0	-4.8			
757	7.2	-4.0			
(3.2)					

PROFILE ALONG WEST SIDE 5-21-47

NORTH CAUSEWAY BRIDGE : SOUND SOUTH

ALONG WEST CAUSEWAY B/H :

80'
0+00 = ?

3.1' Spans

DIST	SOUND		DIST	SOUND	
13:43	2ND CLMN.				
0+00	N. END + ?		160	2.0	+1.0
+13	0.0	+3.0		1.8	+1.2
20	0.2	+2.8	(3.0)	1.8	+1.2
(3.0)	0.8	+2.2		1.8	+1.2
	0.9	+2.1	200	1.7	+1.3
50	1.3	+1.7		1.8	+1.2
	1.5	+1.5		2.5	+0.5
	1.8	+1.2		3.1	-0.1
	2.0	+1.0		4.0	-1.0
	2.0	+1.0	50	4.4	-1.4
100	3.5	-0.5		4.5	-1.5
	4.4	-1.4		5.0	-2.0
	5.0	-2.0		5.2	-2.2
XSP	5.4	-2.4		5.3	-2.3
13:45	4.5	-1.5	300	5.0	-2.0
150	2.8	+0.2	310	5.7	-2.7

W/SIDE N/CAUSEWAY BRIDGE 5-21-47 (37)

DIST	SOUND		DIST	SOUND	
320	6.5	-3.5	520	1.9	+1.1
17:48	6.5	-3.5		1.9	+1.1
	6.0	-3.0	(3.0)	1.3	+1.7
50	6.8	-3.8	50	1.8	+1.2
(3.0)	6.8	-3.8		2.3	+0.7
	6.0	-3.0		3.0	0.0
	3.5	-0.5		4.0	-1.0
	3.3	-0.3		2.8	+0.2
400	3.1	-0.1	600	2.7	+0.3
	2.5	+0.5		2.9	+0.1
	2.5	+0.5		4.0	-1.0
	2.8	+0.2		1.5	-1.5
	2.7	+0.3		0.6	-2.6
50	2.6	+0.4	650	0.5	-2.5
17:50	2.3	+0.7			
	2.4	+0.6			
	2.1	+0.9			
	2.0	+1.0			
500	2.0	+1.0			
510	2.0	+1.0			

PROFILE ALONG EAST SIDE 5-21-47

NORTH CAUSEWAY BRIDGE: SOUND SOUTH

ALONG EAST CAUSEWAY B/L

105'
0+00 = ?

DIST	SOUND		DIST	SOUND	
14:00	3RD. CLMN. N.-END				
0+00	0.0		170	3.7	-0.8
	0.0	+2.9		5.2	-2.3
(2.9)	0.7	+2.2	(2.9)	5.5	-2.6
	1.0	+1.9	200	4.0	-1.1
	2.3	+0.6		4.1	-1.2
50	2.0	+0.9		6.4	-3.5
	2.4	+0.5		6.8	-3.9
	4.5	-1.6		5.3	-2.4
	5.0	-2.1	50	6.5	-3.6
	4.8	-1.9		8.0	-5.1
100	6.0	-3.1		7.5	-4.6
14:07	5.4	-2.5		6.7	-3.8
	2.5	+0.4		7.2	-4.2
	2.4	+0.5	300	8.0	-5.1
	2.8	+0.1		7.0	-4.1
50	6.4	-3.5		6.4	-3.5
160	5.3	-2.4	330	7.8	-4.9

E/SIDE N/CAUSEWAY BRIDGE 5-21-47 (38)

DIST	SOUND		DIST	SOUND
340	6.7	-3.8	540	4.0
50	3.4	-0.5	50	4.3
	5.2	-2.3	(2.9)	2.0
14:08	5.2			3.0
(2.9)	2.7			2.7
	3.2			3.2
400	4.6		600	0.7
	3.0		610	0.2
	1.5		613	0.1
	4.0			
	4.4			
50	1.8			
	1.4			
	4.5			
	3.5			
14:10	1.4			
500	4.0			
	4.7			
	3.0			
530	1.8			

SOUNDINGS AFTER SHOAL REMOVAL — 6-3-47

PROJECT #7: STA-76+00 — SOUNDEAST

0+00 = R-92+23.96 : LINES ARE RUN AT 90°00'00" TO R/L (DUNE)

DIST	SOUND		DIST	SOUND	
2+09	0.0	+3.4	4+00	11.5	-8.1
09:27					
2+20	1.4	+2.0		11.5	-8.1
(3.4)	2.4	+1.0	(3.4)	11.8	-8.4
	4.3	-0.9		12.0	-8.6
50	7.0	-3.6		12.1	-8.7
	8.4	-5.0	50	12.1	-8.7
	9.6	-6.2		11.1	-7.7
	10.3	-6.9		11.5	-8.1
	11.0	-7.6		11.5	-8.1
3+00	11.2	-7.8		11.3	-7.9
	11.3	-7.9	5+00	11.5	-8.1
	11.3	-7.9	09:32		
	11.2	-7.8			
	11.1	-7.7			
50	11.1	-7.7			
09:30					
	11.3	-7.9			
	11.0	-7.6			
	11.6	-8.2			
3+90	11.5	-8.1			

SOUND EAST — STA-75+00 — 6-3-47 (39)

A DUNE B/L.

0+00 = R-92+23.96 : LINES ARE RUN AT 90°00'00" TO R/L

DIST	SOUND		DIST	SOUND	
2+15	0.0	+3.5	4+00	12.0	-8.5
2+20	0.5	+3.0		11.7	-8.2
09:43					
	1.5	+2.0		11.4	-7.9
(3.5)	2.4	+1.1	(3.5)	11.4	-7.9
50	4.9	-1.4		11.5	-8.0
	6.8	-3.3	50	12.0	-8.5
	8.2	-4.7		12.7	-9.2
	8.6	-5.1		13.0	-9.5
	9.4	-5.9		13.0	-9.5
3+00	10.3	-6.8	09:48	12.0	-8.5
09:45	10.5	-7.0	5+00	12.4	-8.9
	10.9	-7.4		13.0	-9.5
	11.0	-7.5		13.5	-10.0
	11.7	-8.2		13.4	-9.9
50	11.8	-8.3		13.4	-9.9
	12.0	-8.5	50	13.0	-9.5
	12.0	-8.5			
	12.0	-8.5			
3+90	12.0	-8.5			

SOUND EAST

STA- 74+ 00

6-3-47

0+00 = R- 92+23.96 : LINES ARE RUN AT 90°00'00" TO R/L

DIST	SOUND		DIST	SOUND	
1+91	0.0	+3.6	3+80	11.3	-7.7
2+00	1.0	+2.6		12.4	-8.8
10:04	1.1	+2.5	4+00	12.4	-8.8
(3.6)	2.0	+1.6	(3.6)	11.8	-8.2
	3.0	+0.6		11.8	-8.2
	4.5	-0.9		11.7	-8.1
50	6.6	-3.0		11.5	-7.9
	7.5	-3.9	50	11.5	-7.9
	8.1	-4.5		11.6	-8.0
	9.0	-5.4		11.6	-8.0
	9.5	-5.9		11.6	-8.0
3+00	10.0	-6.4		11.5	-7.9
	10.4	-6.8	3+00	12.0	-8.4
	10.5	-6.9		12.3	-8.7
10:07	10.6	-7.0		12.5	-8.9
	10.7	-7.1		14.6	-11.0
50	10.5	-6.9	10:10	14.4	-10.8
	11.7	-8.1	50	14.5	-10.9
3+70	11.7	-8.1			

SOUND EAST

STA- 73+ 00

6-3-47

(40)

0+00 = R- 92+23.96 : LINES ARE RUN AT 90°00'00" TO R/L

DIST	SOUND		DIST	SOUND	
1+55	0.0	+3.7	3+40	12.0	-8.3
1+60	0.4	+3.3	50	12.0	-8.3
10:25	1.9	+1.8		12.0	-8.3
(3.7)	2.5	+1.2	(3.7)	12.1	-8.4
	3.0	+0.7		12.0	-8.3
2+00	4.5	-0.8		12.0	-8.3
	5.6	-1.9	4+00	12.3	-8.6
	7.0	-3.3		12.4	-8.7
	7.4	-3.7		12.4	-8.7
	7.3	-3.6		12.2	-8.5
50	8.0	-4.3		12.8	-9.1
	8.8	-5.1	50	14.1	-10.4
	9.7	-6.0		14.2	-10.5
	10.4	-6.7		13.7	-10.0
	10.5	-6.8		13.0	-9.3
3+00	10.7	-7.0		13.4	-9.7
10:27	11.0	-7.3	500	14.0	-10.3
	12.3	-8.6	10:30		
3+30	12.0	-8.3			

SOUND EAST — STA -72+00 — 6-3-47

0+00 = R-92+23.96 : LINES ARE RUN AT 90°00'00" TO B/L

DIST	SOUND		DIST	SOUND	
1+03	0.0	+3.7	2+90	12.3	-8.6
1+10	0.7	+3.0	3+00	12.2	-8.5
10:49	1.6	+2.1	10:53	11.5	-7.8
(3.7)	2.2	+1.5	(3.7)	11.4	-7.7
	2.8	+0.9		11.8	-8.1
50	5.0	-1.3		12.7	-9.0
	6.1	-2.4	50	14.0	-10.3
	6.0	-2.3		14.8	-11.1
	6.1	-2.4		16.0	-12.3
	7.3	-3.6		16.0	-12.3
2+00	8.0	-4.3		15.0	-11.3
	8.8	-5.1	4+00	14.5	-10.8
	8.5	-4.8			
	9.5	-5.8			
	9.8	-6.1			
50	10.9	-7.2			
	12.1	-8.4			
	12.8	-9.1			
2+80	12.4	-8.7			

CHECK ON LEVEE RUN BY PROJ # 8. 6-4-17

0+00 = Pt. 460' W. of Sta-81+00 Causeway B/L and at - 81°39'44" To B/L : Sound West From This Pt Along Same Line.

Dist	Sound		Dist	Sound	
0+10	0.0	+2.8	1+90	12.5	-9.7
14:45	0.2	+2.6	2+00	12.4	-9.6
(2.8)	0.2	+2.6	(2.8)	12.0	-9.2
	1.0	+1.8		12.2	-9.4
50	5.1	-2.3		12.5	-9.7
	9.0	-6.2		12.2	-9.4
	12.0	-9.2	50	12.0	-9.2
	12.0	-9.2		12.0	-9.2
	11.5	-8.7		11.5	-8.7
1+00	12.0	-9.2		11.2	-8.4
	11.8	-9.0		11.4	-8.6
	12.0	-9.2	3+00	11.4	-8.6
	12.1	-9.3		11.0	-8.2
	12.0	-9.2		10.7	-7.9
50	12.0	-9.2		11.4	-8.6
	12.1	-9.3		11.0	-8.2
	12.3	-9.5	50	11.5	-8.7
1+80	12.3	-9.5	3+60	12.0	-9.2

P.X. Indexed (42)

0+00 = Pt. 460' W. of Sta-81+00 Causeway B/L and at - 81°39'44" To B/L : Sound West From This Pt. Along Same Line.

Dist	Sound		Dist	Sound
3+70	11.6	-8.8		
(2.8)	11.8	-9.0		
	11.4	-8.6		
4+00	11.1	-8.3		
	11.5	-8.7		
	11.3	-8.5		
	10.0	-7.2		
	9.3	-6.5		
50	5.0	-2.2		
4+60	0.0	+2.8		

CHECK ON LEVEE RUNOUT PROJ. NO. 8.

6-4-47

0+00 = PT 540' W. OF STA - 82+00 CAUSEWAY B/L AND AT 81°29'44" TO B/L : SOUND SOUTH AT 90° FROM THIS PT.

DIST	SOUND		DIST	SOUND	
0+00	1.1	+1.7	1+80	10.6	-7.8
14:30	2.8	0.0	(2.8)	11.3	-8.5
(2.8)	5.4	-2.6	2+00	10.8	-8.0
	7.8	-5.0	14:58	11.1	-8.3
	8.3	-5.5		12.2	-9.4
50	9.0	-6.2		13.0	-10.2
	10.2	-7.4		13.4	-10.6
	10.7	-7.9	50	12.8	-10.0
	11.0	-8.2		11.7	-8.9
	11.0	-8.2		11.2	-8.4
1+00	11.3	-8.5		10.8	-8.0
	12.1	-9.3		11.4	-8.6
	12.8	-10.0	3+00	11.2	-8.4
	12.7	-9.9		11.0	-8.2
	13.0	-10.2		10.7	-7.9
50	13.5	-10.7		11.1	-8.3
	12.3	-9.5	15:00	11.3	-8.5
1+70	10.7	-7.9	50	11.5	-8.7

TX.

6-4-47 (43)

0+00 = PT 840' W. OF STA - 82+00 CAUSEWAY B/L AND AT 81°39'14" TO B/L : SOUND SOUTH AT 90° FROM THIS PT.

DIST	SOUND		DIST	SOUND	
0+23	0.0	+2.8	2+00	12.2	-9.4
0+30	2.0	+0.8		11.5	-8.7
15:12	4.1	-1.3	(2.8)	12.0	-9.2
50	6.5	-3.7		11.9	-9.1
(2.8)	7.5	-4.7	15:15	12.6	-9.8
	9.6	-6.8	50	12.7	-9.9
	10.4	-7.6		12.9	-10.1
	10.8	-8.0		15.0	-12.2
1+00	11.0	-8.2		12.8	-10.0
	11.4	-8.6		12.8	-10.0
	11.5	-8.7	3+00	12.5	-9.7
	11.3	-8.5		12.2	-9.4
	11.3	-8.5		11.7	-8.9
50	12.0	-9.2		12.0	-9.2
	12.0	-9.2		13.5	-10.7
	10.8	-8.0	50	13.1	-10.3
	12.5	-9.7		12.9	-10.1
1+90	12.8	-10.0	3+70	13.3	-10.5

P.X. 6-1-47

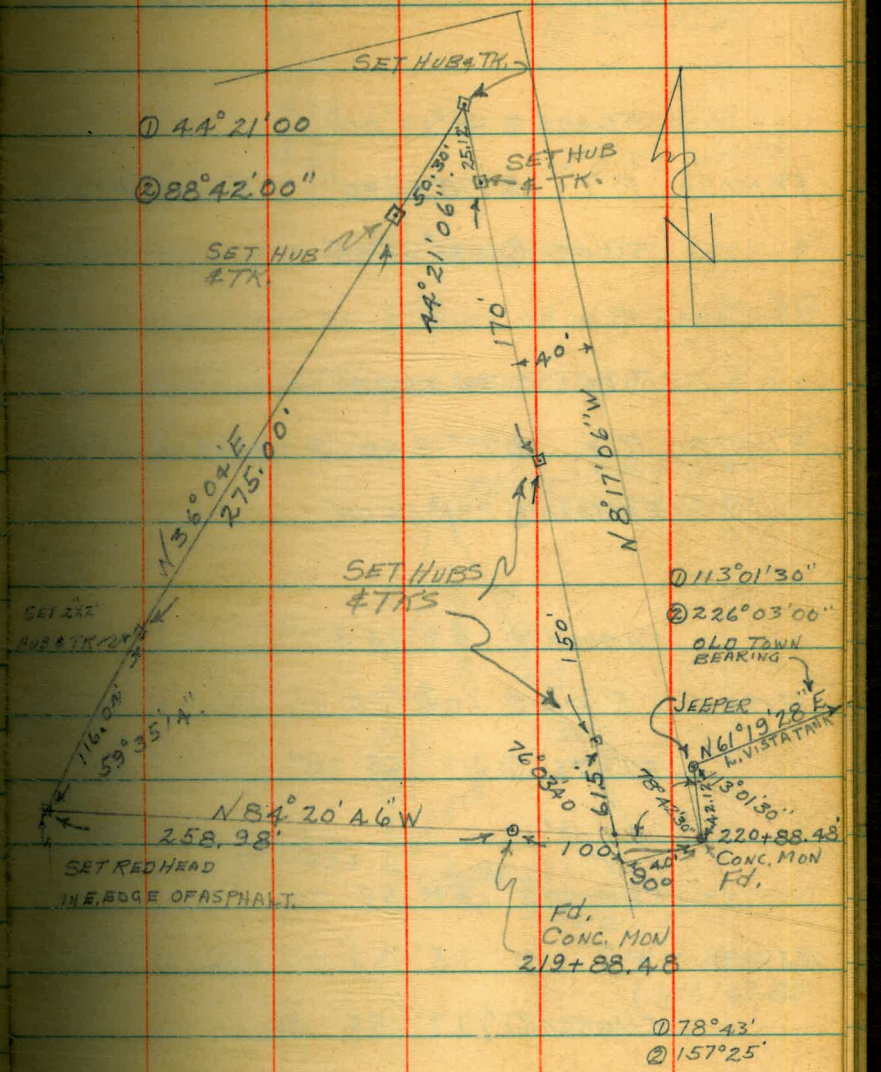
DIST	SOUND		DIST	SOUND
3+80	12.5	-9.7		
(2.8)	11.5	-8.7		
4+00	12.0	-9.2		
	12.3	-9.5		

15.718

6-12-47

SURVEY OF PORTION OF PUEBLO LOT 205 SHOWING LAND ACQUIRED BY CITY OF SAN DIEGO BY CONDEMNATION

Indexed



TRIANGULATION OF CITY MON "FAMOSA" & CHURCH

Indexed

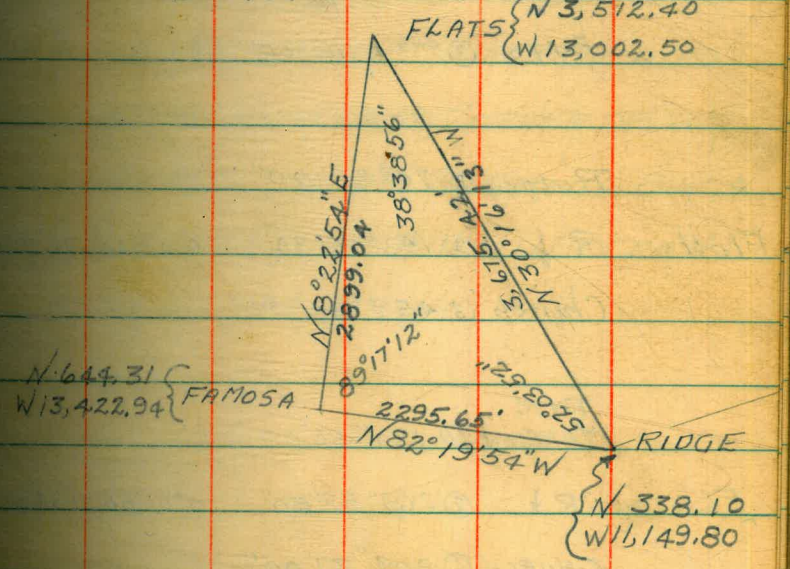
6-12-47

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

WEATHER
FAIR - WARM

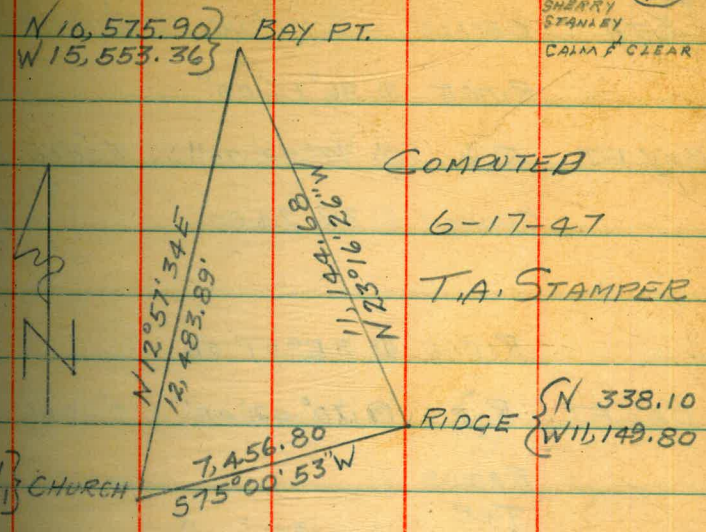
STA	OBJECT	SIX ANGLES	VERNIER	MEAN
	FLATS ①	89°17'00"		
FAMOSA	R ②	178°34'30"	0°00'00"	89°17'15"
	RIDGE ⑥	535°43'30"		
535 42				
	RIDGE ①	38°39'00"		
FLATS	R ②	77°18'00"	0°00'00"	38°39'00"
	FAMOSA ⑥	231°54'00"		
	FAMOSA ①	52°04'30"		
RIDGE	R ②	104°08'00	0°00'00"	52°03'51"
	FLATS ⑥	312°23'30"		
	FAMOSA ①	37°59'00		
FLATS	R ②	75°58'00	0°00'00"	37°59'10"
	CHURCH ⑥	227°55'00		

NOTE: "FAMOSA" IS 6" CONC MON. MKD CITY ENGR. & IS LOCATED ON N. SIDE OF W. PT. LOMA BLVD & APPROX 150' W. OF + OF FAMOSA ST. & 4' N. OF POWER POLE.



6-13-47
BARRAGAN
SHEARY
STANLEY
CALM & CLEAR
47

STA	OBJECT	SIX ANGLES	VERNIER	MEAN
	CHURCH ① 176° 56' 00"			
RIDGE	R ↓ MARSTON'S ② 353° 52' 00"		0° 00' 00"	176° 56' 00"
	TOWER ③ 1061° 35' 00"			
	CHURCH ① 74° 43' 00"			
RIDGE	R ↓ ② 149° 25' 30"		0° 00' 00"	74° 43' 00"
	FLATS ③ 448° 16' 00"			
	Ridge ① 76° 38' 00"			
Flatts	R ↓ ② 153° 15' 30"		0° 00' 00"	76° 37' 45"
	Church ③ 459° 46' 30"			
	TWR MARSTONS ① 134° 56' 00"			
FLATS	R ↓ ② 269° 52' 30"		0° 00' 00"	134° 56' 15"
	CHURCH ⑥ 809° 37' 00"			



COMPUTED
6-17-47
T. A. STAMPER

STATION "CHURCH" IS THE DOME ON THE NEW CATHOLIC CHURCH LOCATED ON THE SOUTH EAST CORNER OF THE INTERSECTION OF SARATOGA AVE & SUNSET CLIFFS BLVD IN OCEAN BEACH CALIF

6-13-47

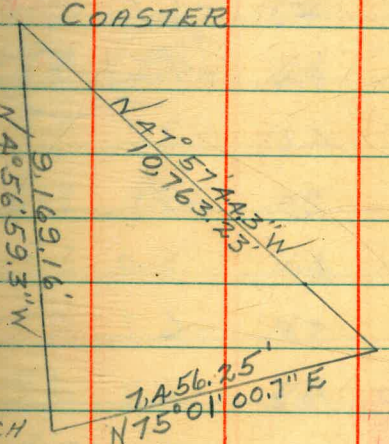
STA	OBJECT	SIX ANGLES	VERNIER	MEAN
	RIDGE	① 36°14'00"		
BAY PT.	R ↘	② 72°28'00"	0°00'00"	36°14'00
	CHURCH	⑥ 217°24'00"		
	RIDGE	① 35°21'00		
BAY PT.	R ↘ "C" RADIUS	② 70°42'00"	0°00'00"	35°21'
	TWR MARSTONS	① 163°36'00"		
CAUSEWAY EL	R "C" RADIUS	② 327°12'00"	0°00'00"	163°36'00

6-20-47

TRIANGULATION OF "CHURCH"

STA	OBJECT		SIX ANGLES	VERNIER	MEAN	HORIZON	ADJ. ANGLE
U.S.C.&G.S. COASTER	RIDGE	①	43° 01' 00"				
	R. ↓	②	86° 02' 00"	00° 00' 00"	43° 00' 45"	360° 00' 30"	43° 00' 45"
	CHURCH	⑥	258° 04' 45"				
	CHURCH	①	57° 01' 00"				
RIDGE	R. ↓	②	104° 03' 00	00° 00' 00"	57° 01' 15"	359° 59' 45"	57° 01' 16"
	COASTER	⑥	342° 07' 30"				

CLEAR & COOL
VISIBILITY GOOD



6-20-47 (49)

SOUNDINGS PROJECT # 8 — 6-27-97 BARRASSO SHERRY STANGS

0+00 = {STA-101+00 / 0- 97+90}: SOUND WEST AT 90° TO

PY.	STA-101+00				
DIST	SOUND		DIST	SOUND	
0+16	0.0	+3.4	2+00	12.3	-8.9
0+30	2.0	+1.4		12.0	-8.6
15:00 40	3.0	+0.4		12.0	-8.6
50	3.5	-0.1		12.0	-8.6
	4.1	-0.7		12.0	-8.6
	4.2	-0.8	50	12.0	-8.6
(3.4)	4.3	-0.9		12.1	-8.7
	4.5	-1.1	15:05	12.3	-8.9
1+00	5.0	-1.6	(3.5)	12.3	-8.9
	6.6	-3.2		12.1	-8.6
15:03	7.3	-3.9	3+00	12.0	-8.5
	8.4	-5.0		11.7	-8.2
	9.5	-6.1		11.4	-7.9
50	10.2	-6.8		11.1	-7.6
	11.0	-7.6		11.1	-7.6
	11.8	-8.4	50	11.1	-7.6
	12.0	-8.6		11.3	-7.8
1+90	12.3	-8.9	3+70	11.8	-8.3

PY	STA-101+00			6-27-97	Indexed (50)
DIST	SOUND		DIST	SOUND	
3+80	12.0	-8.5		11.1	-7.6
	12.2	-8.7		11.1	-7.6
4+00	12.0	-8.5	6+00	11.5	-8.0
	12.2	-8.7		11.3	-7.8
15:08	12.2	-8.7		11.1	-7.6
	12.3	-8.8		11.0	-7.5
	12.5	-9.0		11.4	-7.9
50	12.0	-9.5	50	11.1	-7.6
	13.3	-9.8	15:10	11.2	-7.7
(3.5)	13.0	-9.5		11.2	-7.7
	12.7	-9.2	(35)	11.2	-7.7
	~~12.6~~ 11.6	-8.1		11.3	-7.8
5+00	~~12.6~~ 11.6	-8.1	700	11.5	-8.0
	11.7	-8.2		11.8	-8.3
	11.7	-8.2		11.9	-8.4
	11.7	-8.2		11.8	-8.3
	11.7	-8.2		12.0	-8.5
50	11.7	-8.2	50	12.0	-8.5
	11.5	-8.0		11.9	-8.4
5+70	11.1	-7.6	7+70	11.7	-8.2

PX

STA- 101+00 — 6-29-47

DIST	SOUND		DIST	SOUND	
7+80	12.5	-9.0	9+80	10.5	-7.0
	12.7	-9.2		10.8	-7.2
8+00	12.5	-9.0	10+00	11.0	-7.4
	12.0	-8.5		11.0	-7.4
	12.0	-8.5		10.5	-7.0
	11.3	-7.8	(3.6)	10.7	-7.1
	11.4	-7.9		11.4	-7.8
50	11.3	-7.8	50	11.2	-7.6
(3.5)	11.4	-7.7		11.0	-7.4
	11.4	-7.9	15:15	10.5	-6.9
	11.4	-7.9		10.5	-6.9
	11.3	-7.8		10.5	-6.9
9+00	11.3	-7.8	11+00	10.4	-6.8
	11.2	-7.7		10.4	-6.8
	11.8	-8.3		10.4	-6.8
	10.5	-7.0		10.7	-7.1
	10.5	-7.0		11.3	-7.7
50	10.6	-7.1	50	11.7	-8.1
	10.8	-7.3		12.0	-8.4
9+70	10.6	-7.1	11+70	12.3	-8.7

PX.

STA- 97+00 — 6-30-47 (51)

SOUNDINGS PROJECT #8

3+00 = PT. 500' W. OF STA-97+00 CAUSEWAY E/L LINES ARE RUN AT 81° 39' 44" TO E/L

DIST	SOUND		DIST	SOUND	
0+7	0.0	+2.6	1+70	10.0	-7.4
0+10	0.5	+2.1		10.0	-7.4
13:15 20	4.3	-1.7	13:17	10.2	-7.6
	5.3	-2.7	2+00	10.2	-7.6
	6.4	-3.8		9.8	-7.2
50	7.0	-4.4		9.7	-7.1
(2.6)	8.0	-5.4	(2.6)	9.7	-7.1
	9.1	-6.5		9.4	-6.8
	10.0	-7.4	50	9.1	-6.5
	10.7	-8.1		10.0	-7.4
1+60	10.7	-8.1		9.0	-6.4
	10.6	-8.0		9.0	-6.4
	10.0	-7.4		9.0	-6.4
	10.0	-7.4	3+00	8.8	-6.2
	10.5	-7.9		8.0	-5.4
50	10.5	-7.9		7.8	-5.2
1+60	10.4	-7.8	3+30	7.1	-4.6

PX

DIST	STA -97+00 SOUND		DIST	SOUND	6-30-47
3+40	2.7	-0.1			
50	~~3.0~~ 8.0	-0.4			
(26) 60	1.5	+1.1			
3+67	0.0	+2.6			
13:20					

PX

STA -98+00 6-30-47 (3) (32)

0+00 = PT 433' W. OF STA -98+00 CAUSEWAY B/L :

LINES ARE RUN AT 81° 39' 44" TO B/L.

DIST	SOUND		DIST	SOUND	
0+10	0.0	+2.5	1+90	11.3	-8.8
13:20 20	4.1	-1.6	2+00	12.0	-9.5
30	5.3	-2.8	13:28	11.5	-9.0
	6.4	-3.9		11.7	-9.2
50	7.8	-5.3		12.8	-10.3
	8.0	-5.5		12.3	-9.8
(2.5)	8.5	-6.0	50	11.5	-9.0
	9.1	-6.6		10.0	-7.5
	9.5	-7.0	(2.5)	11.0	-8.5
1+00	10.5	-8.0		10.5	-8.0
	11.0	-8.5		10.8	-8.3
	11.0	-8.5	3+00	10.8	-8.3
	11.0	-8.5		11.5	-9.0
	10.9	-8.4		11.5	-9.0
50	11.0 +1	-8.5		11.5	-9.0
	11.0	-8.5	13:31	11.5	-9.0
	11.0	-8.5	50	11.4	-8.9
1+80	11.1	-8.6	3+60	11.3	-8.8

Px STA - 98+00 6-30-47

DIST	SOUND	
3+70	11.1	-8.6
	11.1	-8.6
	10.8	-8.3
4+00	10.5	-8.0
	10.2	-7.7
	10.0	-7.5
(2.5)	9.6	-7.1
	8.5	-6.0
50	7.7	-5.2
	6.2	-3.7
	4.0	-1.5
80	2.0	+0.5
4+87	0.0	+2.5
13:34		

Px STA - 99+00 6-30-47 (53)

0+00 = Px 410' W. OF STA 99+00 CAUSEWAY B/L:

LINES ARE RUN AT 81° 33' 44" TO B/L

DIST	SOUND		DIST	SOUND	
0+10	0.0	+2.5	1+90	11.1	-8.6
0+20	2.8	-0.3	2+00	11.2	-8.7
13:40 +30	6.7	-4.2		11.4	-8.9
	9.0	-6.5		11.4	-8.9
50	9.8	-7.3		11.3	-8.8
	10.1	-7.6		11.5	-9.0
(2.5)	10.5	-8.0	50	11.4	-8.9
	10.5	-8.0	13:45	11.3	-8.8
	10.7	-8.2		11.0	-8.5
1+00	10.5	-8.0	(2.5)	11.3	-8.8
	10.4	-7.9		11.4	-8.9
	10.4	-7.9	3+00	11.5	-9.0
	10.8	-8.3		11.6	-9.1
	11.0	-8.5		12.0	-9.5
50	11.5	-9.0		12.0	-9.5
13:49	11.3	-8.8		12.3	-9.8
	11.4	-8.9	50	12.3	-9.8
1+80	11.5	-9.0	3+60	12.3	-9.8

Px STA -99+00 6-30-47

DIST	SOUND		DIST	SOUND
3+70	12.5	-9.9		
	12.2	-9.7		
	12.1	-9.6		
4+00	12.0	-9.5		
	11.8	-9.3		
13:47	11.5	-9.0		
	11.1	-8.5		
(2.6)	10.4	-8.8		
50	10.0	-7.4		
	9.5	-6.9		
	8.4	-5.8		
	5.0	-2.4		
	2.8	-0.2		
4+95 5+00	0.0	+2.6		

Px STA -100+00 6-30-47 (54)

0+00 = Pt. 40' W. of STA -100+00 Causeway B/L:

Lines Are Run At 81°39'44" To B/L.

DIST	SOUND		DIST	SOUND	
0+19	0.0	+2.6	1+90	10.8	-8.2
0+20	4.0	-1.4	2+00	10.8	-8.2
13:55	5.5	-2.9	13:58	11.4	-8.8
	7.3	-4.7		11.4	-8.8
50	8.0	-5.4		11.0	-8.4
	8.7	-6.1	(2.6)	10.8	-8.2
(2.6)	9.7	-7.1	50	10.5	-7.9
	10.0	-7.4		10.6	-8.0
	10.2	-7.6		11.0	-8.4
1+00	10.3	-7.7		11.0	-8.4
	10.8	-8.2		11.3	-8.7
	11.0	-8.4	3+00	11.5	-8.9
	10.8	-8.2		11.5	-8.9
	11.0	-8.4		11.6	-9.0
50	10.9	-8.3	14:00	11.0	-8.4
	10.8	-8.2		11.2	-8.6
	10.8	-8.2	50	10.7	-8.1
1+80	11.0 +0	-8.4	3+60	11.0	-8.4

6-30-47

PX — STA - 100+00

DIST	SOUND		DIST	SOUND
3+70	10.6	-8.0		
	11.0	-8.4		
	11.0	-8.4		
4+00	10.9	-8.3		
	10.4	-7.8		
	10.3	-7.7		
(2.6)	10.0	-7.4		
	9.3	-6.7		
50	7.4	-4.8		
14:03	4.1	-1.5		
	1.5	+1.1		
4+73	0.0	+2.6		

6-30-47 (55)

PX — STA - 101+00

PT. 405' W. OF STA-101+00 CAUSEWAY B/L:

LINES ARE RUN AT 81° 39' 44" TO B/L

DIST	SOUND		DIST	SOUND	
0+00	0.0	+2.7	1+90	10.7	-8.0
0+20	3.5	-0.8	2+00	11.0	-8.3
+30	6.1	-3.4		11.1	-8.4
14:10	6.7	-4.0	14:13	11.3	-8.6
50	8.2	-6.5		11.2	-8.5
	8.0	-5.3		10.8	-8.1
(2.7)	9.3	-6.6	50	10.4	-7.7
	9.3	-6.6	(2.7)	10.0	-7.3
	10.5	-7.8		10.4	-7.7
1+00	10.7	-8.0		10.0	-7.3
	10.7	-8.0		10.3	-7.6
	10.5	-7.8	3+00	10.3	-7.6
	10.5	-7.8		10.8	-8.1
	10.5	-7.8		11.6	-8.9
50	10.6	-7.9		11.6	-8.9
	10.5	-7.8		11.8	-9.1
	10.5	-7.8	50	12.0	-9.3
1+80	10.7	-8.0	3+60	11.7	-9.0

101+00 6-30-47

DIST	SOUND	
3+70	11.5	-8.8
	11.3	-8.6
	11.3	-8.6
4+00	11.3	-8.6
	11.3	-8.6
	10.8	-8.1
14:15.	10.2	-7.5
(2.7)	10.0	-7.3
50	6.0	-3.3
	3.1	-0.4
	1.5	+1.2
4+74	0.0	+2.7

STA-102+00 6-30-47 (5c)

0+00= PT. 362' W. OF STA-102+00 CAUSEWAY B/L.

LINES ARE RUN AT 81° 39'44" TO B/L.

DIST	SOUND		DIST	SOUND	
0+15	0.0	+2.8	1+90	11.6	-8.6
0+20	0.8	+2.0	2+00	11.8	-9.0
+30	1.5	+1.3	14:30	11.8	-9.0
14:25 +40	3.8	-1.0		11.7	-8.9
50	4.5	-1.7		11.7	-8.9
	5.4	-2.6	(2.8)	11.6	-8.8
(2.8)	7.0	-4.2	50	11.5	-8.7
	9.0	-6.2		11.3	-8.5
	9.3	-6.5		11.3	-8.5
1+00	10.2	-7.4		11.2	-8.4
	10.1	-7.3		11.2	-8.4
	10.1	-7.3	3+00	11.1	-8.3
	11.0	-8.2		11.0	-8.2
	11.5	-8.7		11.0	-8.2
50	11.5	-8.7		11.0	-8.2
	11.6	-8.8		11.0	-8.2
	11.5	-8.7	50	10.8	-8.0
1+80	11.5	-8.7	3+60	11.7	-8.9

6-30-47

STA - 102 + 00

DIST	SOUND	
3+70	12.2	-9.4
14:33	12.2	-9.4
	11.8	-9.0
4+00	11.4	-8.6
	11.4	-8.6
	11.6	-8.8
(2.8)	11.4	-8.6
	11.6	-8.8
50	11.5	-8.7
	11.0	-8.2
	10.7	-7.9
	9.0	-6.2
	7.5	-4.7
5+00	6.7	-3.9
	5.0	-2.2
	3.5	-0.7
	3.2	-0.4
14:35	3.2	-0.4
50	1.6	+1.2
5+55	0.0	+2.8

SOUNDINGS PROJECT # 8

7-2-47 (57)
BARRAGAN
SHERRY
STANLEY

PX

STAKE #

0+00 = STAKE # 43

LINE WAS RUN AT 15° TO TAN BETWEEN # 41 & # 42 : SOUND N/E

DIST	SOUND	
0+65	0.0	+3.3
0+70	1.3	+2.0
09:27 +80	4.0	-0.7
	3.9	-0.6
1+00	5.5	-2.2
	8.3	-4.9
	8.5	-5.2
(3.3)	9.0	-5.7
	10.6	-7.3
50	11.8	-8.5
	12.0	-8.7
	12.4	-9.1
	12.5	-9.2
	12.5	-9.2
2+00	13.0	-9.7
	13.0	-9.7
2+20	13.0	-9.7

DIST	SOUND	
2+30	12.8	-9.5
	12.6	-9.3
2+50	12.0	-8.7
09:30		

7-2-41

0+00 = STAKE # 42 ; LINES ARE RUN AT PX 90° TO TAN BETWEEN STAKES # 42 & # 41 : SOUND NORTH

DIST	SOUND		DIST	SOUND	
0+88	0.0	+3.4	2+70	11.5	-8.1
1+00	4.0	-0.6		11.8	-8.4
09:33	5.6	-2.2		12.2	-8.8
	7.0	-3.6	3+00	12.2	-8.8
	8.0	-4.6		12.5	-9.1
	8.5	-5.1	09:38	12.5	-9.1
50	8.4	-5.0		12.5	-9.1
(3.4)	9.6	-6.2	(3.4)	12.5	-9.1
	10.3	-6.9	50	12.5	-9.1
09:35	11.0	-7.6		12.7	-9.3
	11.4	-8.0		12.7	-9.3
2+00	12.0	-8.6		12.4	-9.0
	12.0	-8.6		12.0	-8.6
	12.0	-8.6	4+00	11.8	-8.4
	12.0	-8.6		11.6	-8.2
	11.8	-8.4		11.0	-7.6
50	11.5	-8.1	09:40	8.7	-5.3
2+60	11.5	-8.1	4+40	1.5	+1.9
			4+50	1.5	+1.9

"100 W. 42" PX (58)

0+00 = PT. 100' W. OF STAKE # 42 AND ON TAN BETWEEN STAKES # 42 & # 41 : SOUND NORTH.

DIST	SOUND		DIST	SOUND	
0+92	0.0	+3.4	2+90	12.5	-9.1
1+00	2.0	+1.4		11.6	-8.2
09:45	3.8	-0.4		11.5	-8.1
	4.0	-0.6	3+00	12.0	-8.6
	4.6	-1.2		12.4	-9.0
	7.0	-3.6	(3.4)	12.3	-8.9
50	7.5	-4.1	09:50	12.0	-8.6
	8.1	-4.7		12.0	-8.6
(3.4)	10.0	-6.6	50	11.8	-8.4
	10.5	-7.1		11.8	-8.4
	11.6	-8.2		11.8	-8.4
2+00	12.1	-8.7		12.1	-8.7
	12.7	-9.3		12.0	-8.6
	13.0	-9.6	4+00	11.8	-8.4
09:48	13.0	-9.6		11.5	-8.1
	13.0	-9.6		9.5	-6.1
50	12.9	-9.5		3.0	+0.4
2+50	12.5	-9.1	+40	2.0	+1.4
			4+50	1.8	+1.6

SOUND NORTH # "200 W" PX 7-2-47

0+00 = PT. 200' W. OF STAKE # 42 AND ON TAN BETWEEN

STAKES #41 & 42: LINES ARE RUN AT 90° TO TAN

DIST	SOUND		DIST	SOUND	
0+95	0.0	+3.4	2+70	12.5	-9.1
1+00	0.9	+2.5		12.1	-8.7
03:58 +10	4.0	-0.6		11.8	-8.4
	4.5	-1.1	3+00	12.0	-8.6
	6.0	-2.6		12.1	-8.7
3.4	7.4	-4.0	3.4	12.0	-8.6
50	8.5	-5.1		12.0	-8.6
	8.5	-5.1		12.4	-9.0
	9.5	-6.1	50	12.5	-9.1
	10.3	-6.9	10:03	12.5	-9.1
	11.5	-8.1		12.0	-8.6
2+00	12.0	-8.6		12.0	-8.6
	12.4	-9.0		12.4	-9.0
	12.4	-9.0	4+00	12.4	-9.0
10:00	12.4	-9.0		12.4	-9.0
	12.4	-9.0		12.0	-8.6
50	12.4	-9.0	10:05	9.5	-6.1
2+60	12.5	-9.1	4+50	4.7 2.0	-1.3 +1.2

"300 W" PX 7-2-47 (59)

0+00 = PT. 300' W. OF STAKE # 42 AND ON TAN BETWEEN #42

#41: LINES ARE RUN AT 90° TO TAN; SOUND NORTH

DIST	SOUND		DIST	SOUND	
0+94	0.0	+3.4	2+70	13.5	-10.1
1+00	1.0	+2.4		12.8	-9.4
+10	4.7	-1.3		12.6	-9.2
	5.0	-1.6	3+00	12.6	-9.2
	7.5	-4.1		12.7	-9.2
3.4	7.7	-4.3	10:15	12.7	-9.2
50	8.3	-4.9	3.5	12.7	-9.2
	9.4	-6.0		12.5	-9.0
	11.0 9.0	-7.6	50	12.2	-8.7
	11.8 9.8	-8.4		12.2	-8.7
	12.3	-8.9		12.4	-8.9
2+00	12.3	-8.9		12.5	-9.0
	12.2	-8.8		12.5	-9.0
	12.5	-9.1	4+00	12.5	-9.0
	13.0	-9.6		12.6	-9.1
	13.1	-9.7		12.3	-8.8
50	13.4	-10.0	10:18	8.8	-5.3
2+60	13.5	-10.1	+40 4+50	2.7 2.5	+0.8 +1.0

STAKE # 41 7-2-47

0+00 = STAKE # 41 : LINES ARE RUN AT 90° TO TAN BETWEEN STAKES # 42 & # 41 : SOUND NORTH

DIST	SOUND		DIST	SOUND
0+37	0.0	+3.5		
1+10	1.3	+2.2		
10:27	3.2.	+0.3		
	5.4	-1.9		
(3.5)	6.0	-2.5		
50	7.1	-3.6		
	9.0	-5.5		
	10.3	-6.8		
	11.1	-7.6		
	11.6	-8.1		
2+00	12.0	-8.5		
	12.5	-9.0		
	12.8	-9.3		
	13.0	-9.5		
2+40	13.0	-9.5		

STAKE # 40 7-2-47 (60)

1+00 = STAKE # 40 : LINES ARE RUN RADIALLY THRUGH STAKE # 40 : SOUND N/W

DIST	SOUND		DIST	SOUND
0+87	0.0	+3.5		
1+00	2.8	+0.7		
+10	3.5	0.0		
10:39	4.0	-0.5		
(3.5)	5.0	-1.5		
	5.6	-2.1		
50	7.0	-3.5		
	8.0	-4.5		
	9.5	-6.0		
	10.5	-7.0		
	11.0	-7.5		
2+00	12.0	-8.5		
	12.0	-8.5		
	12.1	-8.6		
	12.5	-9.0		
11:44	12.0	-8.5		
50	12.0	-8.5		
2+60	12.0	-8.5		

STAKE # 39 — 7-2-47

0+00 = STAKE # 39 : LINES ARE RUN RADIALLY THROUGH STAKE # 39 :

DIST	SOUND	SOUND	NORTH WEST DIST	NORTH WEST SOUND
0+82	0.0	+3.5		
0+90	1.0	+2.5		
1+00 10:54	2.5	+1.0		
+10	4.0	-0.5		
	5.5	-2.0		
3.5	6.4	-2.9		
	7.0	-3.5		
50	8.0	-4.5		
	9.8	-6.3		
	11.0	-7.5		
	11.5	-8.0		
	12.0	-8.5		
2+00				

STAKE # 38 — 7-2-47 — (61)

0+00 = STAKE # 38 : LINES ARE RUN RADIALLY THROUGH STAKE # 38 :

DIST	SOUND	SOUND	N/W DIST	N/W SOUND
0+87	0.0	+3.4		
1+00	2.0	+1.4		
1+02 +10	3.0	+0.4		
	3.5	-0.1		
	5.0	-1.6		
3.4	7.3	-3.9		
50	7.3	-3.9		
	9.0	-5.6		
	9.5	-6.1		
	10.5	-7.1		
	10.8	-7.4		
2+00	10.8	-7.4		
	11.0	-7.6		
2+20	11.0	-7.6		

SOUNDINGS - DANA BASIN PROJ. #7 — 7-2-47 PX

STA - 62+00

0+00 = Pt. 410' W. OF STA - 62+00 CAUSEWAY B/L:

LINES ARE RUN AT 81° 89' 44" TO B/L: SOUND WEST.

DIST	SOUND		DIST	SOUND	
0+09	0.0	+2.8	1+80	12.4	-9.6
0+20	1.0	+1.8		12.5	-9.7
12:45	2.5	+0.3	2+00	12.9	-10.1
	5.0	-2.2		12.7	-9.9
50	5.5	-2.7	12:50	13.0	-10.2
	6.0	-3.2		12.7	-9.9
	6.4	-3.6	(2.8)	13.0	-10.2
(2.8)	7.2	-4.4	50	12.8	-10.0
	7.8	-5.0		12.9	-10.1
1+00	8.7	-5.9		12.7	-9.9
	10.2	-7.4		11.5	-8.7
	10.0	-7.2		11.0	-8.2
	12.0	-9.2	3+00	11.0	-8.2
12:48	12.7	-9.9		11.5	-8.7
50	12.8	-10.0		11.7	-8.9
	12.4	-9.6		12.0	-9.2
1+70	11.6	-8.8	3+40	12.4	-9.6

STA - 62+00 — 7-2-47 PX — (62)

Indexed

DIST	SOUND		DIST	SOUND
3+50	12.4	-9.6		
	12.4	-9.6		
	12.4	-9.6		
	12.0	-9.2		
	9.0	-6.2		
4+00	8.0	-5.2		
	7.4	-4.6		
	7.3	-4.5		
(2.8)	6.0	-3.2		
	5.1	-2.3		
50	4.3	-1.5		
12:55	2.1	+0.7		
	0.8	+2.0		
4+80	0.0	+2.8		

STAKE # 13 PX 7-2-47

0+00 = STAKE # 13 DANA BASIN: LINES ARE RUN IN THE DIRECTION OF RADIUS:

DIST.	SOUND		DIST	SOUND	
0+42	0.0	+2.6			
0+50	1.5	+1.1			
13:18 +60	4.5	-1.9			
	5.6	-3.0			
	6.5	-3.9			
(2.6)	8.0	-5.4			
1+00	9.6	-7.0			
	10.0	-7.4			
	11.4	-8.8			
	11.5	-8.9			
13:20	12.4	-9.8			
50	11.2	-8.6			
	12.3	-8.7			
	12.5	-8.9			
	12.5	-8.9			
	12.5	-8.9			
2+00	12.5	-8.9			
2+10					

STAKE # 15 7-2-47 PX (63)

0+00=STAKE # 15 DANA BASIN: LINES ARE RUN IN THE DIRECTION OF RADIUS OF CIRCLE.

DIST	SOUND		DIST	SOUND	
0+42	0.0	+2.6	2+20	11.3	-8.7
+50	1.0	+1.6	13:38		
+60	3.2	-0.6			
13:23	5.2	-2.6			
(2.6)	7.5	-4.9			
	8.0	-5.4			
1+00	9.4	-7.0			
	12.0	-9.4			
	12.4	-9.8			
	12.6	-10.0			
	12.8	-10.2			
50	12.8	-10.2			
	12.8	-10.2			
	12.6	-10.0			
	12.6	-10.0			
	12.5	-9.9			
2+00	11.3	-8.7			
2+10	11.3	-8.7			

FINAL X-SECTIONS PROJECT #7

STA-49+10 PX

7-14-47
BARRAGAN
S-SERRY
STANLEY

DIST	+	H.I.	−	ELEV	
T.B.M.	2.41	18.58		16.17	TOP HUB R-114+00 STA-50+00
0+00 =	{STA-49+10 R-114+00}		4.2	14.4	
E0+42			11.4	7.2	
E0+85			12.2	6.4	
E 130			12.8	5.8	
E 190			13.2	5.4	
W 32			4.0	14.6	
W 45			9.0	9.6	
W 55			12.1	6.5	
W 85			12.6	6.0	
W 125			12.9	5.7	
W 148			13.1	5.5	
T.P.			12.12	6.46	STAKE 10' EAST STA-49+00

0+00 = {STA-49+00 R-114+00} STA-49+00 PX

7-14-47

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DIST	+	H.I.	−	ELEV	
T.P.	5.05	11.51		6.46	T.P.
0+00			5.0	6.5 (5.0 5)	
E0+60			5.3	6.2	
E 113			5.7	5.8	
E 170			6.3	5.2	
W0+21			3.0	8.5	
W0+35			5.0	6.5	
W0+90			6.0	5.5	
W 125			6.1	5.4	

Sta 48+00 R, 114+00

Dist	+	HI	−	Elv
		11.51		
Sta. 48+00			6.9	4.6

SINGLE SHOT ON STA-48+00 - R- 114+00 (GROUND)

GROUND APPEARS TO BE UNCHANGED ALONG SECTION

7-14-47

0+00 = {STA-50+00 / R-114+00} STA 50+00

Dist	+	H.I.	−	Elev	
T.B.M.	5.09	19.92		14.83	Sta 51+00
0+00			5.0	14.9	
W 0+40			5.0	14.9	
W 0+85			5.0	14.9	
W 132			5.6	14.6	
W 140			9.3	10.6	
W 151			13.2	6.7	
W 195			13.9	6.0	
W 240			14.0	5.9	

STA- 51+00

0+00 = {STA-51+00 / R-114+00) SECTIONS ARE AT 90° TO R/W.

Dist	+	H.I.	−	Elev	
T.B.M	2.41	18.58		16.17	Top Hub R-114+00 STA-50+10
W360			12.8	5.8	
W 310			12.3	6.3	
W 265			11.5	7.1	
W 255			8.2	10.4	
W 242			3.8	14.8	
W 185			3.7	14.9	

STA- 51+00 7-14-47 (65)

Dist	+	H.I.	−	Elev	
W 142		18.58	3.4	15.2	
W 75			4.2	14.4	
W 35			4.2	14.4	
0+00			5.0	13.6	

STA- 52+00

0+00 = {R-111+00 / STA-52+00) SECTIONS ARE AT 90° TO R/W.

Dist	+	H.I.	−	Elev	
T.B.M	4.54	19.73		15.19	Top Hub STA-53+00 R-111+00
0+00			4.9	14.8	
W 30			5.2	14.5	
W 60			5.5	14.2	
W 90			9.9	9.8	
W 96			12.6	7.1	
W 110			13.0	6.7	
W 160			13.3	6.4	

PROJECT # 7 — 7-14-47 — PX

STA- 53+00

0+00 = {STA-53+00 / B-111+00}: SECTIONS ARE AT 90° TO B/L.

DIST	+	H.I.	−	ELEV	
T.B.M.	4.40	19.50		15.10	TOP HUB STA-54+00 B-111+00
W 290			12.9	6.6	
W 250			12.9	6.6	
W 225			12.9	6.6	
W 185			12.8	6.7	
W 180			9.6	9.9	
W 170			6.0	13.5	
W 125			5.8	13.7	
W 70			5.3	14.2	
0+00			5.0	14.5	

X-SECTIONS PROJECT # 8 — 7-14-47 BARRAGAN SHEARY STANLEY — (66)

PX

STA- 102+00

Indexed

0+00 = {STA-102+00 CAUSEWAY B/L}: SECTIONS AT 81° 40' TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	4.43	16.67		12.24	TOP HUB STA-101+00 CAUSEWAY B/L
0+00			4.5	12.2	
0+11 W			4.5	12.2	
W 52			4.8	11.9	
W 110			4.5	12.2	
W 168			4.7	12.0	
W 230			4.1	12.6	
W 285			4.4	12.3	
W 332			6.9	9.8	
W 360			11.0	5.7	
W 370			13.3	3.4	

PY STA- 1014 00 7-14-47

0+00 = STA-101400 CAUSEWAY B/L. SECT AT 81°39'44" TO B/L

T.B.M.	+	H.I.	-	ELEV	TO B/L TOP HUB
	4.30	16.25		11.95	STA-100+00 CAUSEWAY
W 410			13.5	2.7	
W 390			8.1	8.1	
W 370			4.5	11.7	
W 325			4.7	11.5	
W 260			4.9	11.3	
W 205			4.5	11.7	
W 150			4.5	11.7	
W 95			4.4	11.8	
W 45			4.4	11.8	
0+00			4.7	11.5	

PY STA- 100+ 00 7-14-47

0+00 = STA-100+00 CAUSEWAY B/L. SECT AT 81°39'44" TO B/L.

DIST.	+	H.I.	-	ELEV	TOP HUB STA-99+00 CAUSEWAY
T.B.M.	4.95	16.68		11.73	
0+00			4.7	12.0	
W 0+11			4.8	11.9	
W 70			4.9	11.8	
W 120			4.6	12.1	
W 170			4.7	12.0	
W 245			4.7	12.0	
W 310			4.5	12.2	
W 372			3.9	12.8	
W 395			8.2	8.5	
W 420			13.0	3.7	

PX STA- 99+00 9-12-47

0+00 = STA- 99+00 CAUSEWAY B/L ; SECTIONS ARE AT 81°35'44" TO B/L

DIST	+	H.I.	—	ELEV.	
B.M.	4.59	16.54		11.95	TOP HUB STA-100+00 CAUSEWAY
W 415			13.0	3.5	
W 390			8.2	8.3	
W 370			4.4	12.1	
W 345			4.0	12.5	
W 295			4.4	12.1	
W 230			4.3	12.2	
W 165			4.3	12.2	
W 110			4.6	11.9	
W 75			4.7	11.8	
W 30			4.6	11.9	
0+00			4.8	11.7	

PX STA- 98+00 9-14-47 (68)

0+00 = STA- 98+00 CAUSEWAY B/L ; SECTIONS ARE AT 81°35'44" TO B/L.

DIST	+	H.I.	—	ELEV.	
B.M.	4.66	16.39		11.73	TOP HUB STA-99+00 CAUSEWAY
0+00			4.7	11.7	
W 30			4.3	12.1	
W 105			4.1	12.3	
W 190			4.2	12.2	
W 265			4.2	12.2	
W 335			3.9	12.5	
W 385			3.3	13.1	
W 410			7.5	8.9	
W 435			12.4	4.0	

PX STA- 97+00 7-19-47

0+00 = STA- 97+00 CAUSEWAY B/L : SECTIONS ARE AT 81°40' TO B/L

DIST	+	H.I.	-	ELEV	
B.M.	4.45	16.15		11.70	TOP HUB STA-98+00 CAUSEWAY
W 495			12.2	3.9	
W 470			7.7	8.4	
W 440			3.3	12.8	
W 390			3.7	12.4	
W 330			3.9	12.2	
W 265			4.1	12.0	
W 205			3.5	12.6	
W 130			3.9	12.2	
W 65			3.7	12.4	
W 11			4.0	12.1	
0+00			4.7	11.4	

PX STA- 96+00 7-14-47 (69)

0+00 = STA- 96+00 CAUSEWAY B/L : SECTIONS ARE AT 81°40' TO B/L

DIST	+	H.I.	-	ELEV.	
B.M.	4.61	16.08		11.47	TOP HUB STA-97+00 CAUSEWAY
0+00			4.8	11.3	
W 13			4.5	11.6	
W 52			4.3	11.8	
W 115			4.2	11.9	
W 195			4.1	12.0	
W 265			4.1	12.0	
W 330			4.0	12.1	
W 385			4.5	11.6	
W 465			4.4	11.7	
W 535			4.1	12.0	
W 565			5.5	10.6	
W 605			7.3	8.8	
W 645			9.2	6.9	
W 710			8.7	7.4	
W 745			7.7	8.4	
W 800			5.0	11.1	
W 840			4.1	12.0	
W 905			4.0	12.1	

PX

0+00 = STA- 95+00 CAUSEWAY B/L : SECTIONS ARE AT 81°40' TO B/L

STA- 95+00 — 7-14-47

DIST	+	H.I.	−	ELEV	
B.M.	4.64	15.99		11.35	TOP HUB STA- 96+00 CAUSEWAY
W 885			3.5	11.5	
W 780			4.5	11.5	
W 690			3.8	12.2	
W 560			3.8	12.2	
W 455			3.8	12.2	
W 3.25			3.8	12.2	
W 240			4.0	12.0	
W 150			3.8	12.2	
W 80			3.6	12.4	
W 30			4.3	11.7	
0+00			4.8	11.2	

1116.

4-26-51

(70)

Sta	+	H.I.	−	ELEV	
BM	5.20	17.20		12.00	City BM Near State
79 W			5.0	12.2	
80 W			5.8	11.4	
81 W			5.6	11.6	
82			5.4	11.8	
83			5.0	12.2	
84			4.8	12.4	
85			5.1	12.1	
86			5.7	11.5	
87			5.1	12.1	
88			4.0	13.2	
89			4.6	12.6	
90			5.4	11.8	
91			5.4	11.8	
92			5.5	11.7	
93			5.8	11.4	
94			6.0	11.2	

7-30-47

BARRAGAN
SHERRY
STANLEY
7-30-47

(71)

Indexed

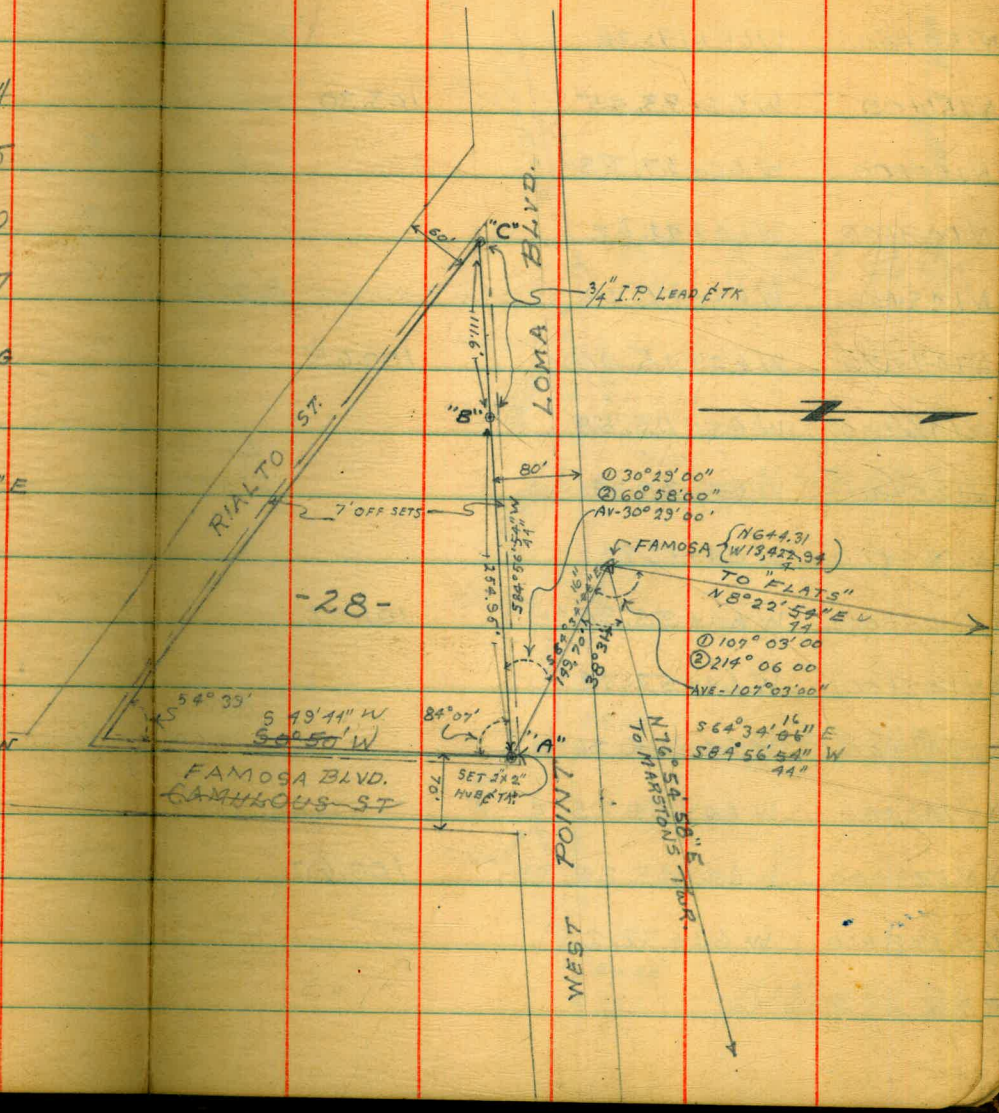
25495
11 1.60
3C6.55

TRAVERSE TIE OF "FAMOSA" MON.

& N/E COR. BLOCK No 28

	N.	W.
FAMOSA	644.31	13,422.94
Pt. A	580.07	13,287.75
Pt. B.	557.57	13,541.70
Pt. C	547.75	13,652.87

STA	OBJECT	ANGLE	DIST	BEARING
	(U.S.E.D △ "FLATS")	① 107°03'00"		
CITY △ "FAMOSA"	INT. RT. (N/E COR. BLK. 28)	② 214°06'00"	149.70'	S 69°34'06" E
		AV. 107°03'00"		
	"FAMOSA"	① 30°29'00"		
(N/E COR. BLK. 28)	INT. LEFT (N/W COR. BLK. 28)	② 60°58'00"	366.55'	S 89°56'54" W
		AV. 30°29'00"		



DE-ANZA POINT FILL AREA

PROJECT NO 3-1 BASELINE

STATION		B.L. DIST	DEF ANGLE
N153+00	W65+45.28		6°20'00" LT.
N152+00	W65+19.36		
N151+00	W64+93.45	103.30	
N150+00	W64+67.53		
N149+00	W64+41.62		
N148+00	W64+26.43		8°00'05" LT.
N147+00	W64+15.00	100.65	
N146+00	W64+03.55		
N145+00	W64+00.32		16°26'55" LT.
N144+00	W64+17.81		
N143+00	W64+35.30	101.52	
N142+00	W64+52.79		
N141+00	W64+65.26		16°12'00" RT.
N140+00	W64+54.25		
N139+00	W64+43.25	100.60	
N138+00	W64+32.25		

8-20-47

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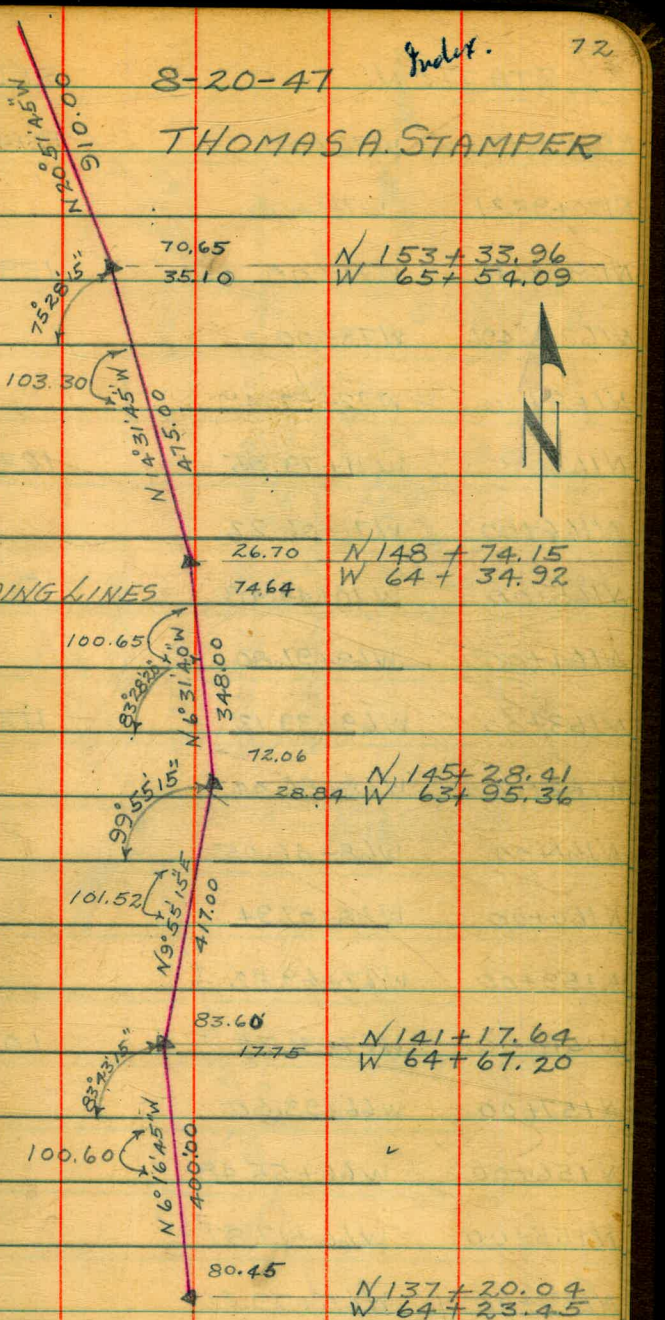
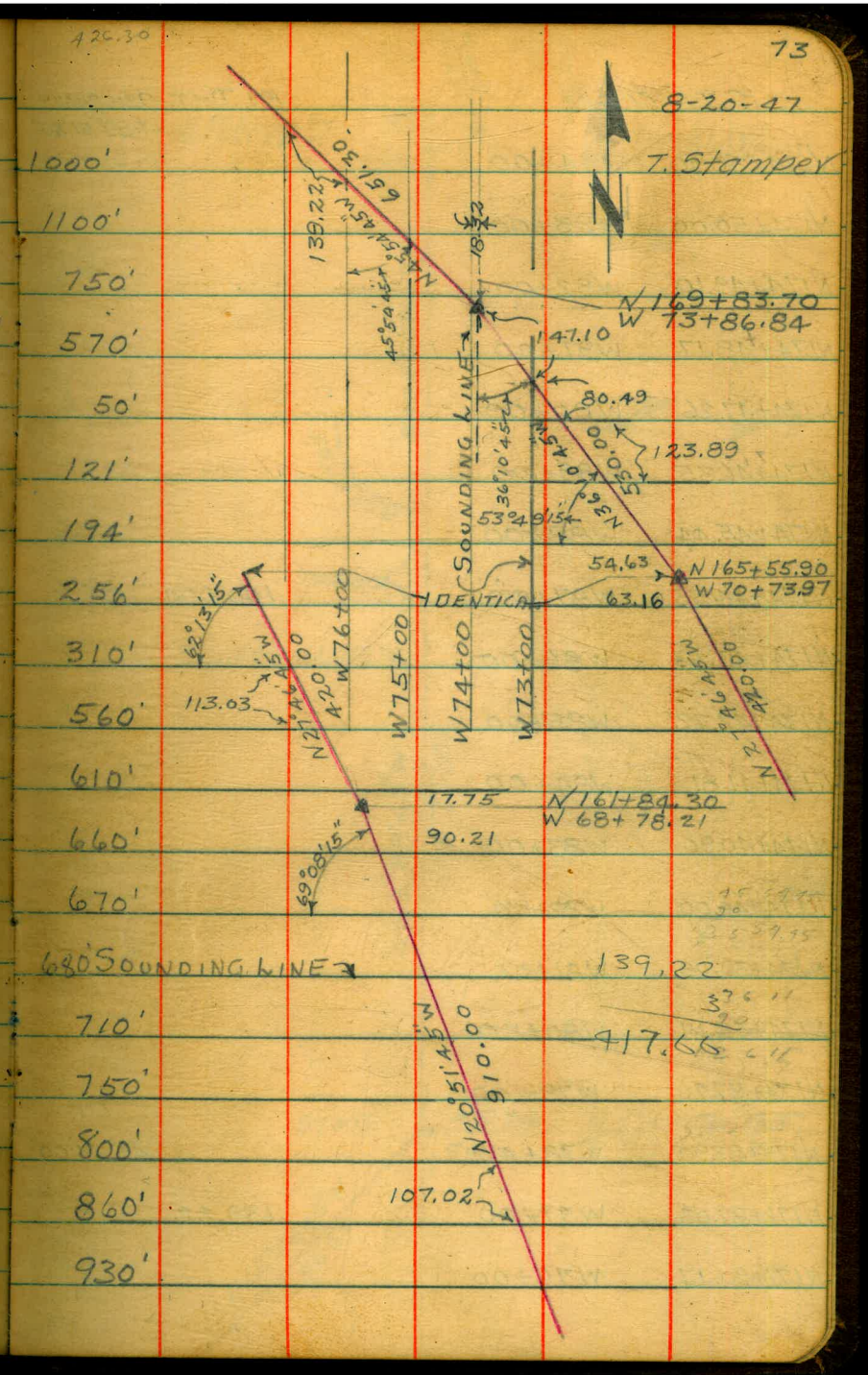
THOMAS A. STAMPER

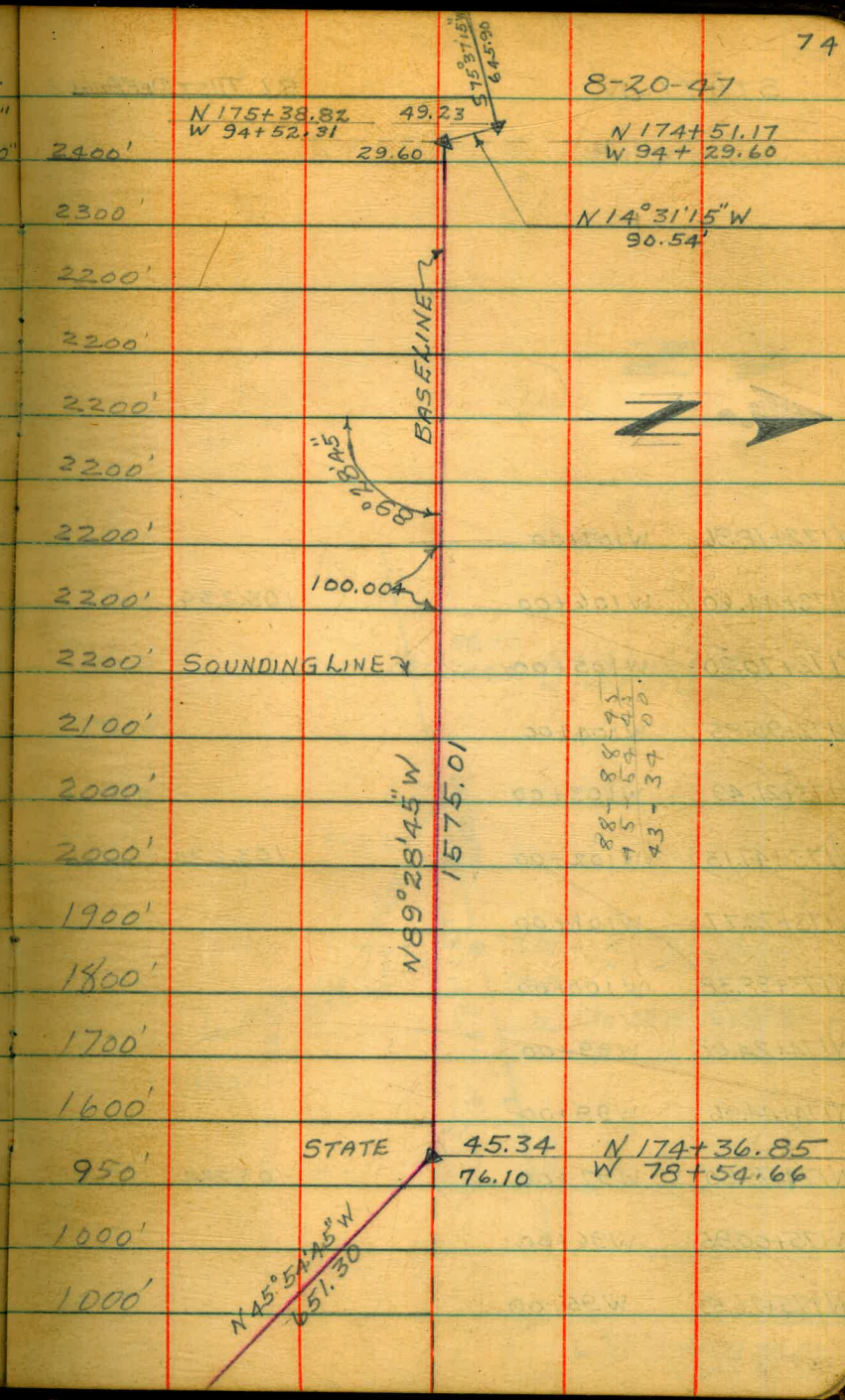


STATION		B.L. DIST	DEF ANGLE
N171+90.17	W76+00	PER 100'	
N170+93.31	W75+00		
N169+96.44	W74+00	139.22	
N168+64.96	W73+00		LT. 9°44'00"
N168+00	W72+52.49		
N167+00	W71+79.35	123.89	
N166+00	W71+06.22		
N165+00	W70+44.48		LT. 8°24'00"
N164+00	W69+91.80		
N163+00	W69+39.12	113.03	
N162+00	W68+86.44		
N161+00	W68+46.05		LT. 6°55'00"
N160+00	W68+07.94		
N159+00	W67+69.82		
N158+00	W67+31.71	107.02	
N157+00	W66+93.60		
N156+00	W66+55.48		
N155+00	W66+17.37		
N154+00	W65+79.26		



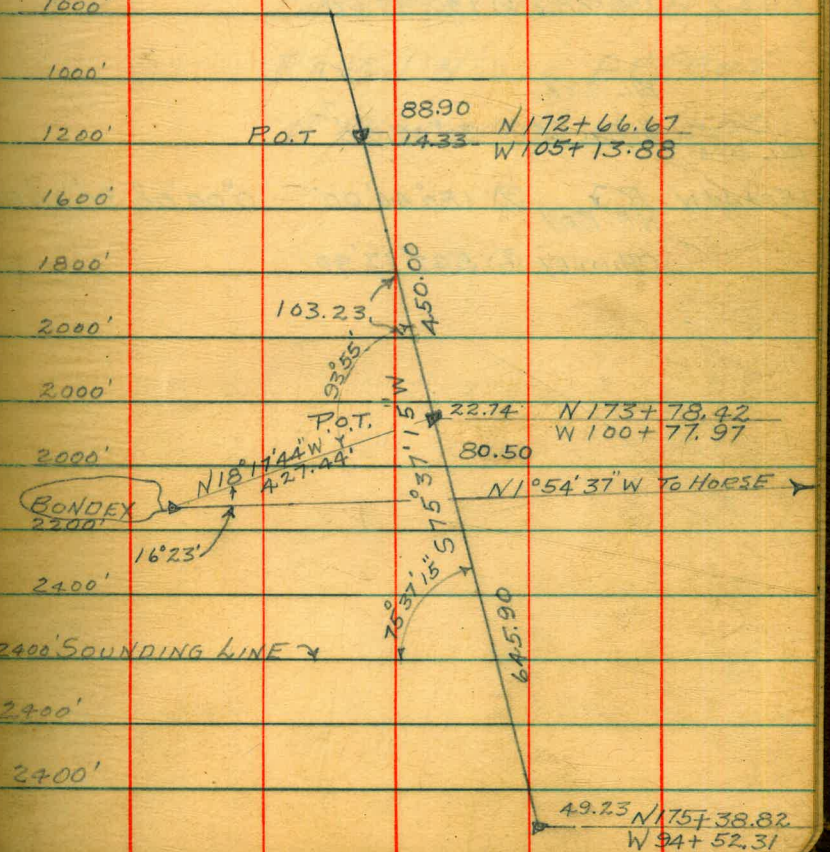
STATION		B.L. DIST.	DEF. ANGLE
			LT-89°51'30"
N174+50.90	W94+00		RT-74°57'30"
N174+50.00	W93+00		
N174+49.10	W92+00		
N174+48.17	W91+00		
N174+47.26	W90+00		
N174+46.35	W89+00		
N174+45.44	W88+00		
N174+44.53	W87+00	100.004	
N174+43.63	W86+00		
N174+42.72	W85+00		
N174+41.81	W84+00		
N174+40.90	W83+00		
N174+40.00	W82+00		
N174+39.08	W81+00		
N174+38.17	W80+00		
N174+37.26	W79+00		
N173+8390	W78+00		LT. 43°34'00"
N172+87.03	W77+00	139.22	
N171+90.17	W76+00		

8-20-47



8-21-47

STATION	B.L.	DIST	DEF. ANGLE
N172+18.96	W107+00		
N172+44.60	W106+00	103.234	
N172+70.20	W105+00		
N172+95.85	W104+00		
N173+21.49	W103+00		
N173+47.13	W102+00	103.234	
N173+72.77	W101+00		
N173+98.38	W100+00		
N174+24.02	W99+00		
N174+44.96	W98+00		
N174+75.30	W97+00	103.234	
N175+00.95	W96+00		
N175+26.59	W95+00		



LOCATION OF SEXTANT POINT CHIMNEY BACK BAY AREA

11-4-47

T. STAMPER
E. WATSON

Indexed

STA	OBJECT	SIX ANGLES	VERNIER	MEAN
	N.E. BAY CHIMNEY	① 21°45'30"		
B/L. STA 91+00 W	R7 B/L. STA. 150+00N	② 43°31'00"	0°00'00"	21°45'30"
		⑥ 130°33'00		
	B/L STA. 91+00 W	① 90°22'30"		
B/L STA. 150+00N	R7 N.E. BAY CHIMNEY	② 180°46'00"	0°00'00"	90°22'55"
		⑥ 542°17'30"		

STATION CHIMNEY IS THE ℄ OF A CHIMNEY APPROX. 1,000' EAST OF PACIFIC HI-WAY ON THE WLY. RIDGE OF BACK BAY AREA A LONE RANCH HOUSE APPROX. N 16,000 ℄ W 6,000

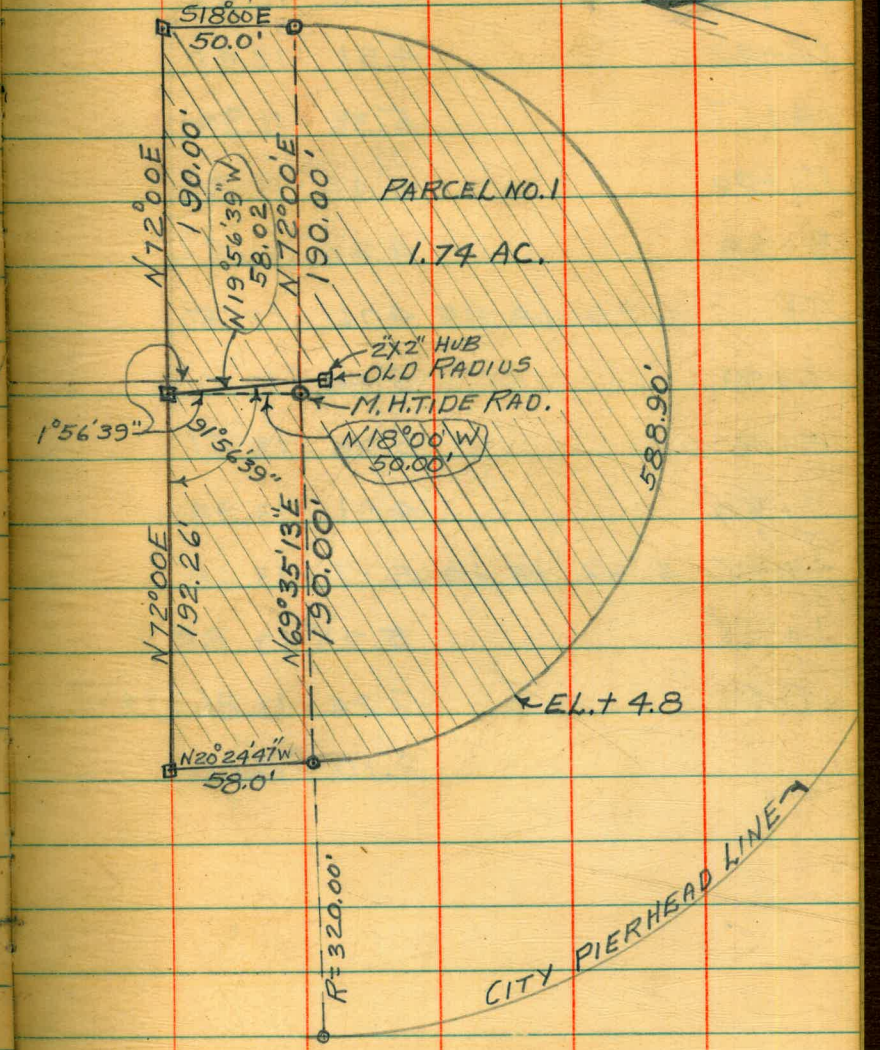
MISSION BAY
YACHT CLUB LEASE AREA
EL CARMEL POINT

NORTH
OLD RADIUS → 2"X2" HUB ~ N18°00'W

4-22-48

T. A. STAMPER

Indexed



PROFILE ALONG E. SIDE OF PACIFIC HI-WAY ADJACENT TO PROJ #3.1

STA	+ H.I	−	ELEV.
TBM	6.05	17.32	11.27
17+51		4.86	12.46
16+42		4.91	12.41
14+17		5.38	11.94
12+00		5.46	11.86
9+33		4.80	12.52
TP.	6.29	18.85 4.76	12.56
6+99		5.84	13.01
5+06		5.34	13.51
2+50		4.91	13.94
~~T.P. 1+58~~	5.42	19.10 5.17	13.68
1+58		5.25	13.85
B.M		7.24	11.86
		2.10	17.00

6-18-48

Indexed 78

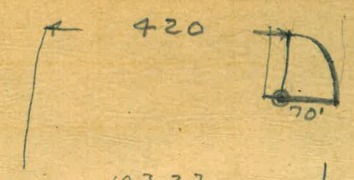
2X2 STA 16+42.

T.A. STAMPER
E.F. WATSON
A.E. SHERREY

STATE

77			N 400
78		99	
	To ℄ 101		N 400
79		100	
80		101	
81	S 1200	102	
82	S 1100	103	
83	S 1050	104	N400
84	S 1050	105	
85	S 850	106	
86	S 750	107	S 50
			N400
87	S 650	108	S 100
	N 100		N 400
88	S 600	109	S 150
	N 200		N 400
89	S 300	110	S 150 -
	N 200		N 400
90	S 250	111	S 200
	N 300		N 400
91	S 550	112	S 200
	N 300		N 400
92	S 600	113	S 200
	N 300		N 400
93		114	S 300
	N 400		N 400
94		115	S 550
	N 400		
95			
	N 400		
96			
	N 400		
97			
	N 400		
98			

440'



103,23
83.84
19.39
103.23 50'

5.8122
103,23 / 600,00.000
51615
85850
82584
110+83.84
12660
10323
23370
20646
27240

103,23
5.8122
20646
20646
10323
82584
83.84340.6

BOND 8.804
MORENA - 18.941

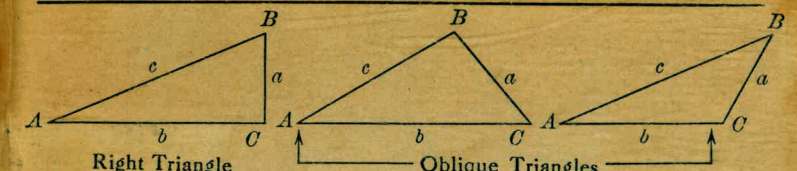
275.00
50.30
116.04
441.34
325.30

325.30
50.30
275.00

179-60
93.55
86-05

103.23
6
619.38

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 $= 302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.