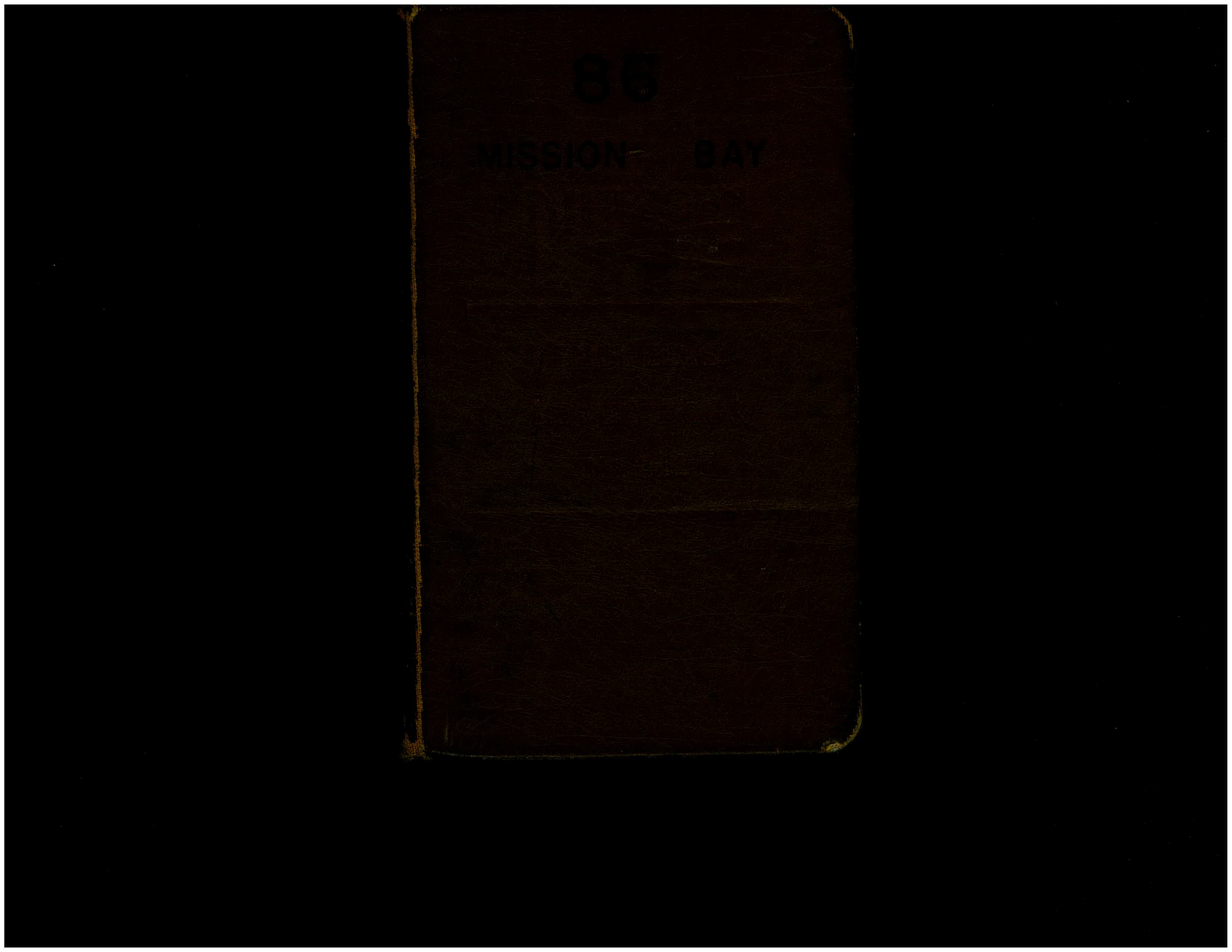
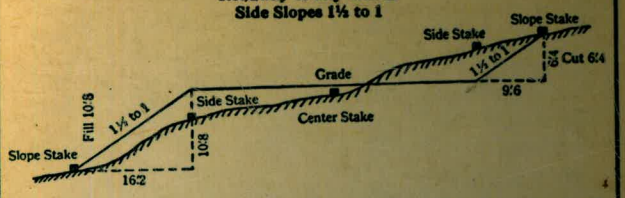

86
MISSION BAY

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width
Side Slopes 1½ to 1



In the figure above Opposite 6 under "Cut or Fill" and under .4 read 9'6 the distance from the side stake to the slope stake at right. Opposite 10 under "Cut or Fill" and under .8 read 16:2, the distance from the side stake to the slope stake at the left.

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

EUGENE DIETZGEN CO.

M.B. 86

THIS Book INDEXED 2/8/62

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✓ 6	LEVELS FOR SOUNDING DE ANZA AREA	4-28-55
✓ 7	LEASE BDY QUIVERA BASIN	5-02-55
✓ 8-15	SOUNDINGS DE ANZA CHANNEL STA 101 TO 103 INCL.	5-05-55
16-19	TRIANGULATION FOR LOCATION OF STA OLD TOWN	5-27-55
20-24	TIES & CROSS SEC'S. ACCESS RD. QUIVERA BASIN	10-11-55
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26		
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INDEXED

TRIANGULATION FOR CONTROL OF EROSION SOUNDINGS MISSION BAY

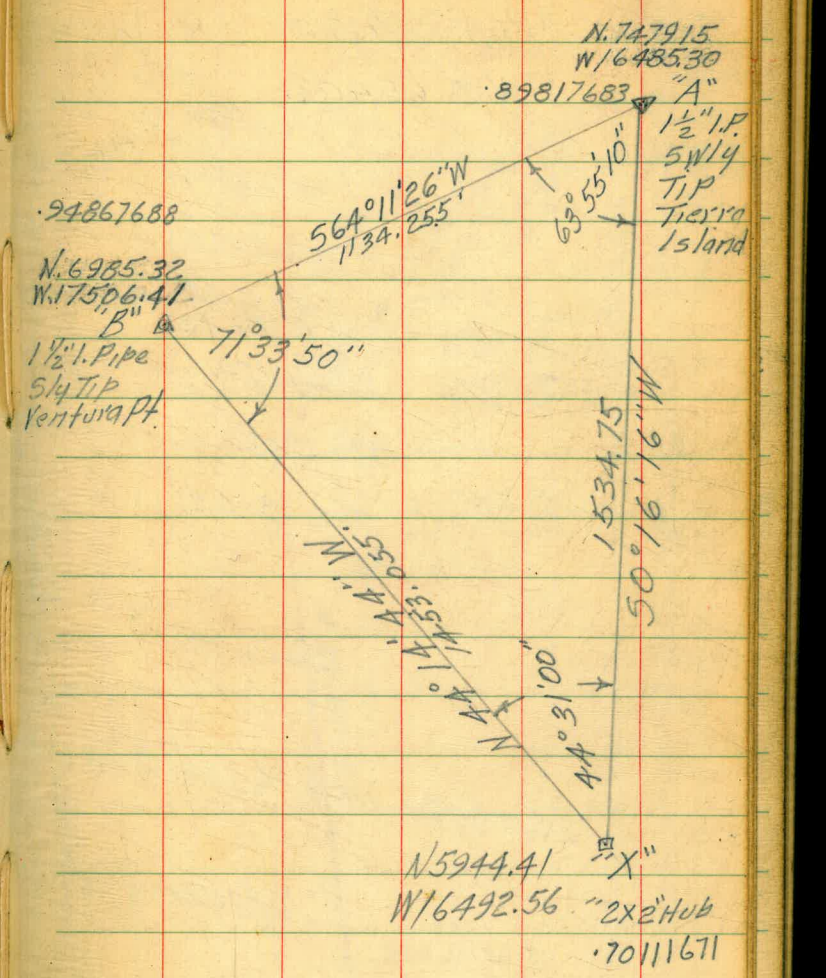
W.O. 65402

Sta	object	Angles
	"X"	1. 63°55'00"
"A"	R ↓	6. 383°31'00"
	"B"	Av. 63°55'10"
	"B"	1. 44°31'00"
"X"	R ↓	6. 267°06'00"
	"A"	Av. 44°31'00"
	"A"	1. 71°33'40"
"B"	R ↓	6. 429°23'00"
	"X"	Av. 71°33'50"

4-14-55

Stamper
Huffman
Blunt

①

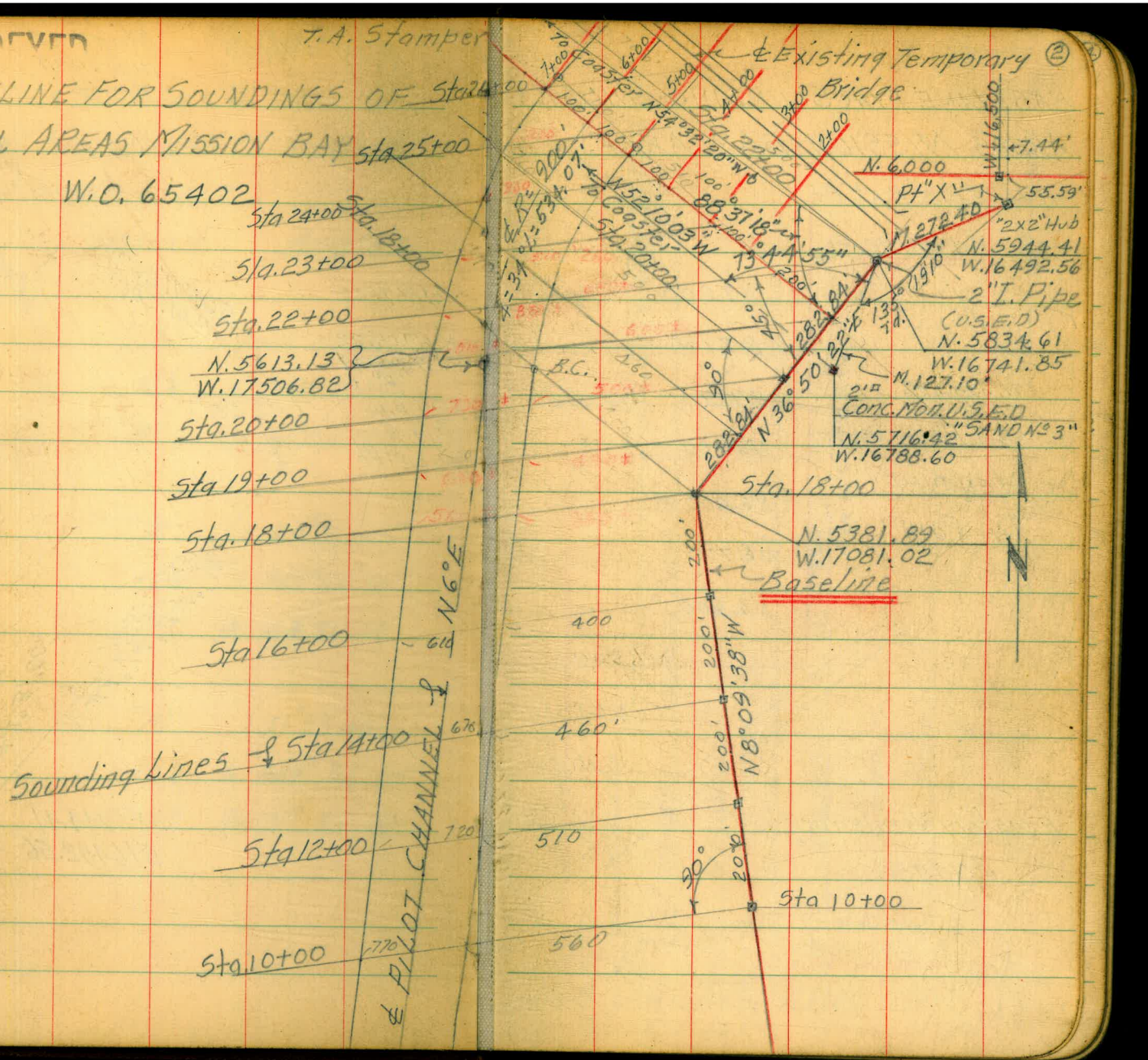


INDEXER

T. A. Stamper

BASELINE FOR SOUNDINGS OF SHOAL AREAS MISSION BAY

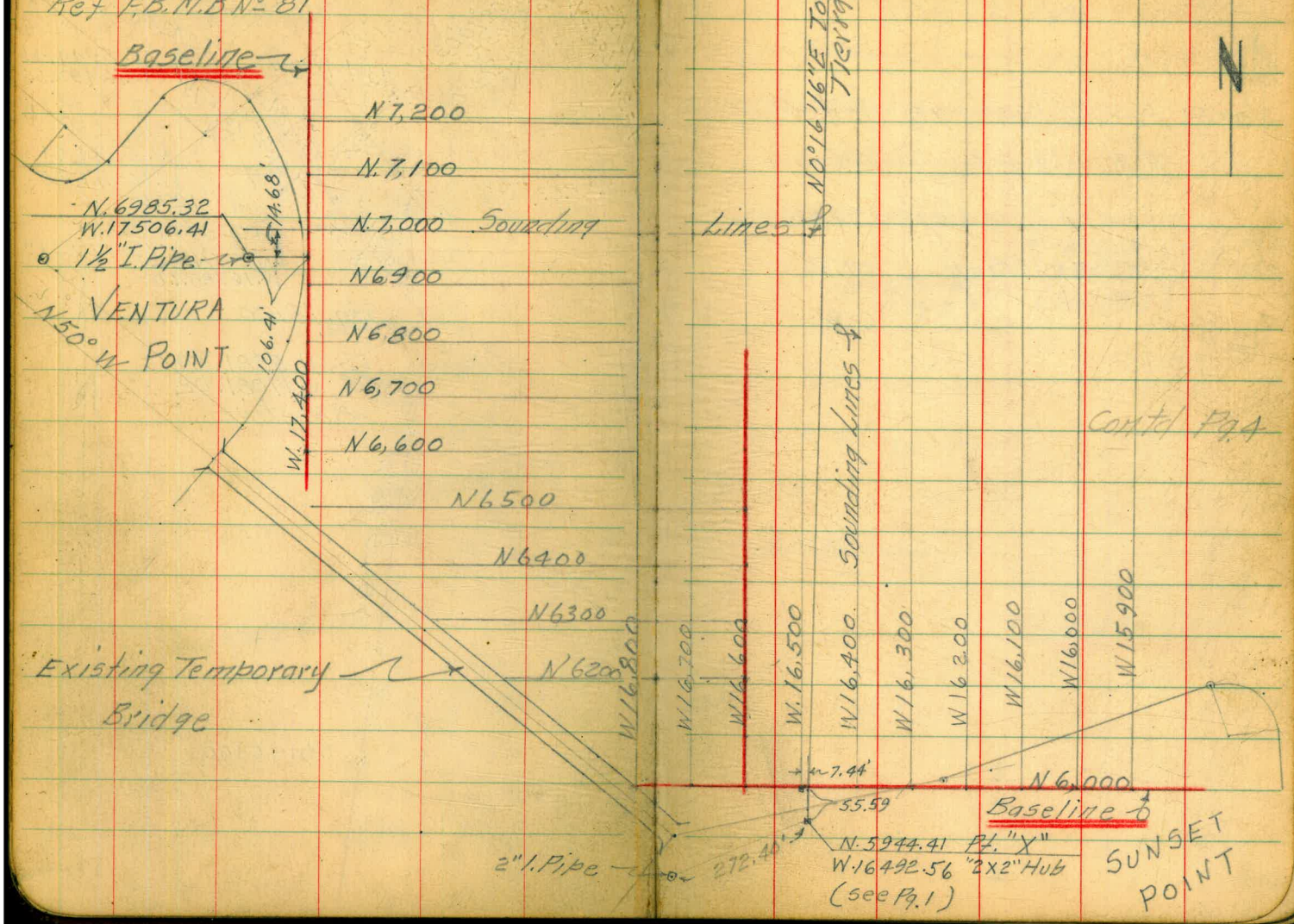
W.O. 65402



T. A. Stamper ③

BASELINE FOR SOUNDING SHOAL AREAS MISSION BAY AREA

Ref F.B. M.B No. 81



BASELINE FOR SOUNDING SHOAL AREAS MISSION BAY AREA
W.O. 65402

NOTE: For Soundings See N.B. F.B. № 87

Origin of Coordinates U.S.C.&G.S. Sta. Old Town

T.A. Stamper ④

N 8,200
N 8,100
N 8,000
N 7,900
N 7,800
N 7,700
N 7,600
N 7,500
N 7,400
N 7,300
N 7,200
N 7,100
N 7,000

TIERRA DEL FUEGO ISLAND

N

N 7479.15 1½" I. Pipe
W 16485.30 P.T. "A"
(See Pg. 1)

N 20.85
E. 85.30

Baseline

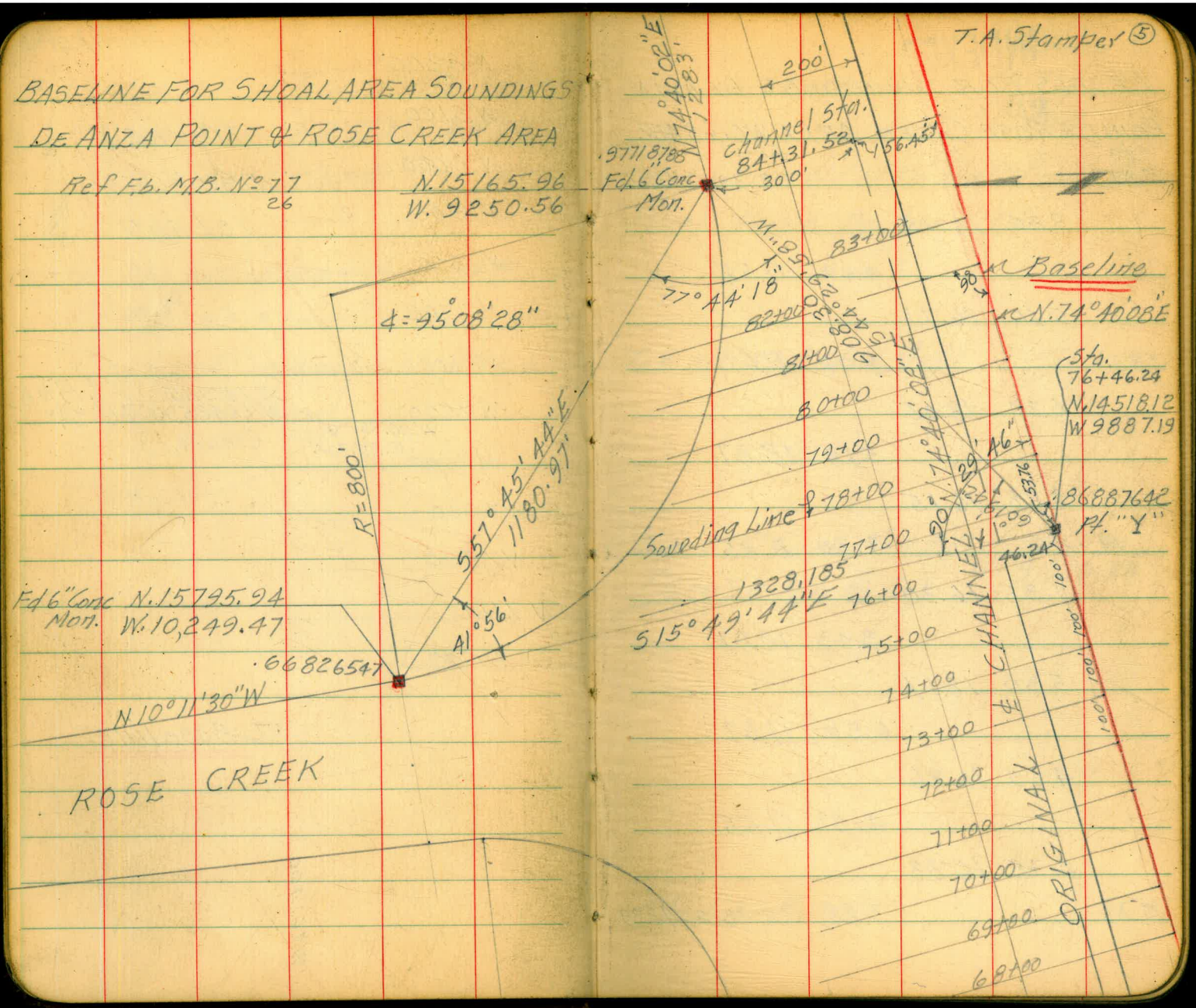
W 16,400

T. A. Stamper ⑤

BASELINE FOR SHOAL AREA SOUNDINGS
DE ANZA POINT & ROSE CREEK AREA

Ref F.B. M.B. No 77 26

N. 15165.96
W. 9250.56



INDEXED

MAY 1

LEVELS FOR SOUNDINGS DE ANZA POINT & ROSE CREEK AREA W.O. 65402

Sta	+	H.I.	−	Elev	
B.M.				12.39	
	3.80	16.19			
			4.64	11.55	
	5.16	16.71			
T.B.M.			5.04	11.67	
	6.38	18.05			
			5.18	12.87	
	3.28	16.15			
B.M.			7.20	8.95	
	7.35	16.30			
			3.43	12.87	
	5.30	18.17			
			6.50	11.67	
	4.69	16.36			
			4.81	11.55	
	4.78	16.33			
B.M.			3.95	12.38 ~ 12.39	Starting Bench

4-28-55

Stamper
Huffman
Rorer
Blunt
Elmore

(6)

Chisled On N.W. Cor. Of North Porch to Pump House De Anza Pt.

Top 800' Rad Ctr. (Stub)

Top 6"x6" Conc. Mon B.C. N. 15165.96 W. 9250.56 (See Sketch Pg 5)

INDEXED

STAKES LEASE B'DY. QUIVERA BASIN

W.O. 64043

Ref Dwg. 2985-D

NOTE: Set "2x2" R/W Hubs & Tacks @ Corners as Indicated ⊡ = Hub & Tk.

DE ANZA CHANNEL — Stamper Huffman Chipman

STA 101+00; 0+00 = B/L SOUNDING

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.4	0.1		8.9	5.6
11.57	3.5	0.2		9.0	5.7
	3.5	0.2	2+00	9.0	5.7
	3.6	0.3		9.2	5.9
	3.8	0.5		9.2	5.9
50	3.9	0.6	(3.3)	9.3	6.0
	4.3	1.0		9.3	6.0
(3.3)	5.8	2.5	50	9.5	6.2
	7.5	4.2		9.5	6.2
	8.1	4.8		9.5	6.2
1+00	8.2	4.9		9.5	6.2
	8.2	4.9		9.5	6.2
	8.2	4.9	3+00	9.5	6.2
12.00	8.3	5.0		9.4	6.1
	8.3	5.0		9.5	6.2
50	8.5	5.2		9.8	6.5
	8.6	5.3		9.7	6.4
	8.7	5.4	50	9.7	6.4

Blunt Elmore — 5-05-55 — W.O. 65402 — Contd from M.B.F.B.No 87 — ⑧

Dist	Sound	Elev	Dist	Sound	Elev
	9.6	6.4	50	9.7	6.5
	9.7	6.5		9.5	6.3
	9.8	6.6		10.0	6.8
	9.8	6.6		9.3	6.1
4+00	9.8	6.6		8.8	5.6
	9.8	6.6	6+00	8.4	5.2
(3.2)	9.8	6.6		8.1	4.9
	9.8	6.6	(3.2)	8.2	5.0
	9.8	6.6		8.2	5.0
50	9.8	6.6		8.1	4.9
	9.9	6.7	50	7.5	4.3
12.05	10.0	6.8		7.5	4.3
	10.0	6.8		7.2	4.0
	10.1	6.9		7.1	3.9
5+00	10.0	6.8		7.1	3.9
	10.0	6.8	7+00	7.0	3.8
	10.0	6.8		7.0	3.8
	10.0	6.8		7.0	3.8
	9.8	6.6		7.0	3.8

STA 10+00

Dist	Sound	Elev	Dist	Sound	Elev
	6.9	3.7		10.1	6.9
50	7.0	3.8	.	10.1	6.9
12:10	7.1	3.9	50	10.2	7.0
.	7.3	4.1		10.2	7.0
.	7.3	4.1	(3.2)	10.2	7.0
.	7.6	4.4		10.3	7.1
8+00	7.8	4.6	.	10.4	7.2
.	7.8	4.6	10+00	10.4	7.2
(3.2)	8.0	4.8	———	10.5	7.4
.	8.0	4.8	.	10.5	7.4
.	8.5	5.3		10.5	7.4
50	9.0	5.8	(3.1)	10.5	7.4
.	9.0	5.8	50	10.5	7.4
	9.2	6.0		10.7	7.6
.	9.2	6.0		10.8	7.7
.	9.6	6.4		10.7	7.6
9+00	9.8	6.6		10.5	7.4
.	10.0	6.8	11+00	10.5	7.4
.	10.0	6.8	.	10.5	7.4

5-05-55

Dist	Sound	Elev	Dist	Sound	Elev
	10.2	7.1		9.9	6.9
.	10.1	7.0		9.9	6.9
.	10.0	6.9		9.8	6.8
50	10.0	6.9	(3.0)	9.9	6.9
12:20	10.0	6.9	50	9.9	6.9
	10.0	6.9		9.9	6.9
	10.0	6.9	12:25	9.9	6.9
	10.0	6.9		9.9	6.9
12+00	10.0	6.9		9.9	6.9
	10.1	7.0	14+00	10.0	7.0
(3.1)	10.0	6.9		10.0	7.0
	10.0	6.9		10.2	7.2
	10.0	6.9		10.5	7.5
50	10.0	6.9		10.4	7.4
.	10.0	6.9	50	10.3	7.3
	9.9	6.8	.	10.1	7.1
	9.9	6.8	.	10.1	7.1
	9.9	6.8	.	10.0	7.0
13+00	9.9	6.8	.	10.0	7.0

STA 101+00

Dist	Sound	Elev
15+00	10.0	7.0
	10.0	7.0
	9.8	6.8
(3.0)	9.9	6.9
	9.9	6.9
50	9.9	6.9
	9.7	6.7
	9.2	6.2
12:30	9.0	6.0
	8.2	5.2
16+00	7.5	4.5
	6.5	3.5
	3.5	0.5
	2.8	+0.2
50		

P.X. 5-05-53 (10)

STA 102+00; 0+00 = B/L SOUND N.W.

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.0	+0.1		7.8	5.8
1:53	2.0	+0.1		8.0	6.0
	2.0	+0.1	2+00	8.1	6.1
	2.0	+0.1		8.0	6.0
	2.1	0.0	(2.0)	8.0	6.0
50	2.2	0.1		8.1	6.1
	2.5	0.4	1:57	8.5	6.5
(21)	4.0	1.9	50	8.5	6.5
	5.5	3.4		8.3	6.3
	7.0	4.9		8.5	6.5
1+00	7.2	5.1		8.5	6.5
	7.5	5.4		8.5	6.5
	7.5	5.4	3+00	8.5	6.5
	7.5	5.4		8.6	6.6
	7.2	5.1		8.8	6.8
50	7.3	5.2		8.8	6.8
	7.5	5.4		9.0	7.0
	7.5	5.4	50	9.1	7.1

STA 102+00

Dist	Sound	Elev	Dist	Sound	Elev
	8.8	6.8	50	9.1	7.1
	8.7	6.7		9.1	7.1
	8.5	6.5		9.0	7.0
	8.7	6.7		9.0	7.0
4+00	8.7	6.7		9.0	7.0
	8.8	6.8	6+00	9.0	7.0
	8.8	6.8	(2.0)	9.1	7.1
(2.0)	8.8	6.8		9.0	7.0
	8.8	6.8		9.0	7.0
50	8.8	6.8		9.0	7.0
	8.7	6.7	50	9.0	7.0
	8.7	6.7		9.0	7.0
	8.7	6.7		9.0	7.0
	8.5	6.5		9.2	7.2
5+00	8.5	6.5		9.2	7.2
	8.6	6.6	7+00	9.3	7.3
2.00	8.6	6.6		9.2	7.2
	8.8	6.8		9.4	7.4
	9.0	7.0		9.8	7.8

5-05-55

(11)

Dist	Sound	Elev	Dist	Sound	Elev
	9.7	7.7		9.7	7.7
50	9.8	7.8	2.05	9.7	7.7
	9.6	7.6	50	9.8	7.8
	9.4	7.4		9.8	7.8
(2.0)	9.7	7.7	(20	10.0	8.0
	9.6	7.6		10.0	
8+00	9.7	7.7		10.0	
	9.5	7.5	10+00	10.0	
	9.5	7.5		10.0	
	9.4	7.4		10.0	
	9.3	7.3		10.0	
50	9.4	7.4		10.0	8.0
	9.5	7.5	50	9.9	7.9
	9.6	7.6		10.0	8.0
	9.5	7.5		9.9	7.9
	9.5	7.5		10.0	8.0
9+00	9.6	7.6		10.0	8.0
	9.6	7.6	11+00	10.0	8.0
	9.6	7.6		10.0	8.0

STA 102+00

Dist	Sound	Elev	Dist	Sound	Elev
	9.9	7.9		9.0	7.0
	10.0	8.0		8.8	6.8
	10.0	8.0		8.8	6.8
50	10.0	8.0		8.7	6.7
	10.0	8.0	50	8.7	6.7
(2.0)	9.8	7.8		8.7	6.7
	9.8	7.8	(2.0)	8.6	6.6
	9.5	7.5		8.7	6.7
12+00	9.2	7.2		8.6	6.6
	9.2	7.2	14+00	8.7	6.7
	9.0	7.0		8.5	6.5
	9.0	7.0		8.8	6.8
	9.0			8.5	6.5
50	9.0			8.5	6.5
	9.0		50	8.4	6.4
24.0	9.0	7.0		8.8	6.8
	8.9	6.9		8.9	6.9
	9.0	7.0		9.0	7.0
13+00	8.8	6.8		8.8	6.8

5-05-55

(12)

Dist	Sound	Elev
15+00	8.7	6.8
	8.8	6.9
	8.8	6.9
(1.9)	9.0	7.1
	8.9	7.0
50	8.8	6.9
	8.7	6.8
	8.5	6.6
	8.0	6.1
	7.5	5.6
16+00	7.0	5.1
	6.0	4.1
	4.5	2.6
	2.1	0.2

P.X.

STA 103+00			0+00 = B/L		
Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.0	+0.9	2:25	8.0	6.2
	1.0			7.9	6.1
2:22	1.0		2+00	8.0	6.2
	1.0			8.0	6.2
	1.0			8.0	6.2
50	1.0	+0.9	(1.8)	8.1	6.3
	1.5	+0.4		8.2	6.4
(1.9)	2.5	0.6	50	8.2	6.4
	3.0	3.1		8.3	6.5
	6.0	4.1		8.4	6.6
1+00	6.3	4.4		8.5	6.7
	6.8	4.9		8.5	6.7
	7.0	5.1	3+00	8.8	7.0
	7.0	5.1		8.7	6.9
	7.1	5.2		8.8	7.0
50	7.5	5.6		8.8	7.0
	7.5	5.6		8.7	6.9
	7.6	5.7	50	8.7	6.9

5-05-55

(13)

Dist	Sound	Elev	Dist	Sound	Elev
	8.9	7.1	50	9.0	7.2
	9.0	7.2		9.0	
	9.1	7.3		9.0	
	9.2	7.4	(1.8)	9.0	
4+00	9.2	7.4		9.0	7.2
	9.2	7.4	6+00	8.9	7.1
(1.8)	9.3	7.5		8.8	7.0
	9.2	7.5	2:30	8.7	6.9
	9.3	7.6		8.7	6.9
50	9.2	7.5		8.8	7.0
	9.2	7.5	50	8.9	7.1
	9.0	7.2		9.0	7.2
	9.0	7.2		9.0	7.2
	9.0	7.2		9.1	7.3
5+00	8.9	7.1		9.2	7.4
	8.9	7.1	7+00	9.3	7.5
	8.9	7.1		9.2	7.4
	8.9	7.1		9.2	7.4
	9.0	7.2		9.2	7.4

STA 103+00

Dist	Sound	Elev	Dist	Sound	Elev
	9.2	7.4		9.5	7.8
50	9.2	7.4		9.8	8.1
	9.1	7.3	50	9.8	8.1
	9.1	7.3		10.0	8.3
(1.8)	9.1	7.3	(1.7)	10.0	8.3
	9.2	7.4		10.0	
8+00	9.2	7.4		10.0	
	9.3	7.5	10+00	10.0	
	9.2	7.4		10.0	
	9.2	7.4		10.0	
	9.2	7.4		10.0	
50	9.5	7.7		10.0	
	9.4	7.6	50	10.0	8.3
	9.3	7.5		9.9	8.2
	9.3	7.5		9.9	8.2
	9.3	7.5		9.8	8.1
9+00	9.3	7.5		9.8	8.1
	9.2	7.4	11+00	9.8	8.1
	9.3	7.5		10.0	8.3

5-05-55

(4)

Dist	Sound	Elev	Dist	Sound	Elev
	10.0	8.3		9.5	7.8
	9.8	8.1		9.8	8.1
	9.8	8.1		9.9	8.2
50	9.7	8.0		9.8	8.1
2:35	9.6	7.9	50	10.0	8.3
	9.6	7.9		9.8	8.1
(1.7)	9.5	7.8	(1.7)	9.8	8.1
	9.3	7.6		9.8	8.1
12+00	9.1	7.4		9.9	8.2
	9.2	7.5	14+00	9.9	8.2
	9.0	7.3		9.9	8.2
	9.0			9.8	8.1
	9.0			9.9	8.2
50	9.0			9.8	8.1
	9.0		50	9.8	8.1
	9.0	7.3		9.8	8.1
	9.1	7.4		9.8	8.1
	9.5	7.8		9.8	8.1
13+00	9.8	8.1		9.2	7.5

5-05-55

STA 103+00

Dist	Sound	Elev
15+00	9.0	7.3
	8.8	7.1
	8.7	7.0
	8.7	7.0
2.40	8.5	6.8
50	8.5	6.8
	8.0	6.3
1.7	7.2	5.5
	7.0	5.3
	6.5	4.8
16+00	5.5	3.8
	4.2	2.5
	3.0	1.3

INDEXED

TRIANGULATION FOR LOCATION OF

U.S.C.&G.S. △ OLD TOWN

W.O. 64010

Sta	Object		Angles
	Marstons Tower	1.	35°08'30"
U.S.E.D. Mon. "Ridge"	R ↗	2.	70°17'00"
	"2X2" R/W. Hub	6.	210°50'00"
	"House"	Av.	35°08'20"
	U.S.E.D. Mon. "Ridge"	1.	108°45'00"
"2X2" Hub "House"	R ↗	2.	217°29'30"
	"2X2" Hub "Ridge Ecc."	6.	652°29'00"
		Av.	108°14'50"
	"2X2" Hub "House"	1.	36°07'30"
"2X2" R/W. Hub "Ridge Ecc."	R ↗	2.	72°14'30"
	U.S.E.D. Mon. "Ridge"	6.	216°42'00"
		Av.	36°07'00"
	℄ N. Levee 181+50 Conc. Mon.	d.	39°25'22"
"2X.2" Hub "Ridge Ecc."	R ↗	R.	39°25'15"
	"2X2X24" Hub "Ice Plant"	Av.	39°25'18.5"

Ref T.P. N° 8/25 F.B. 1075/42 F.B. 1407/76

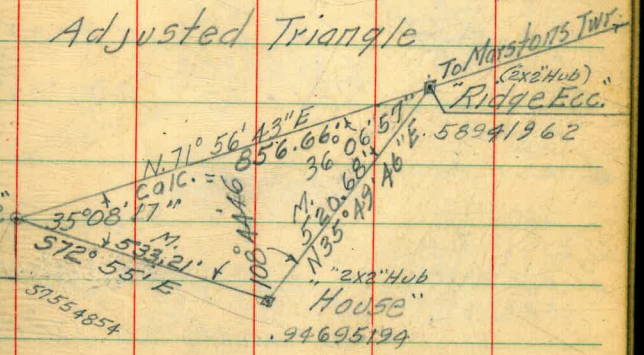
(16)

NOTE: 5-27-55 Stamper ↑ Huffman ↓ Blunt ↓ Elmore

Used Gurley Transit for This Triangulation

Dist	Bearing
	N. 71°56'43" E
533.21'	

Adjusted Triangle



520.68'

"Ridge" (conc. Mon.)

N. 338.10

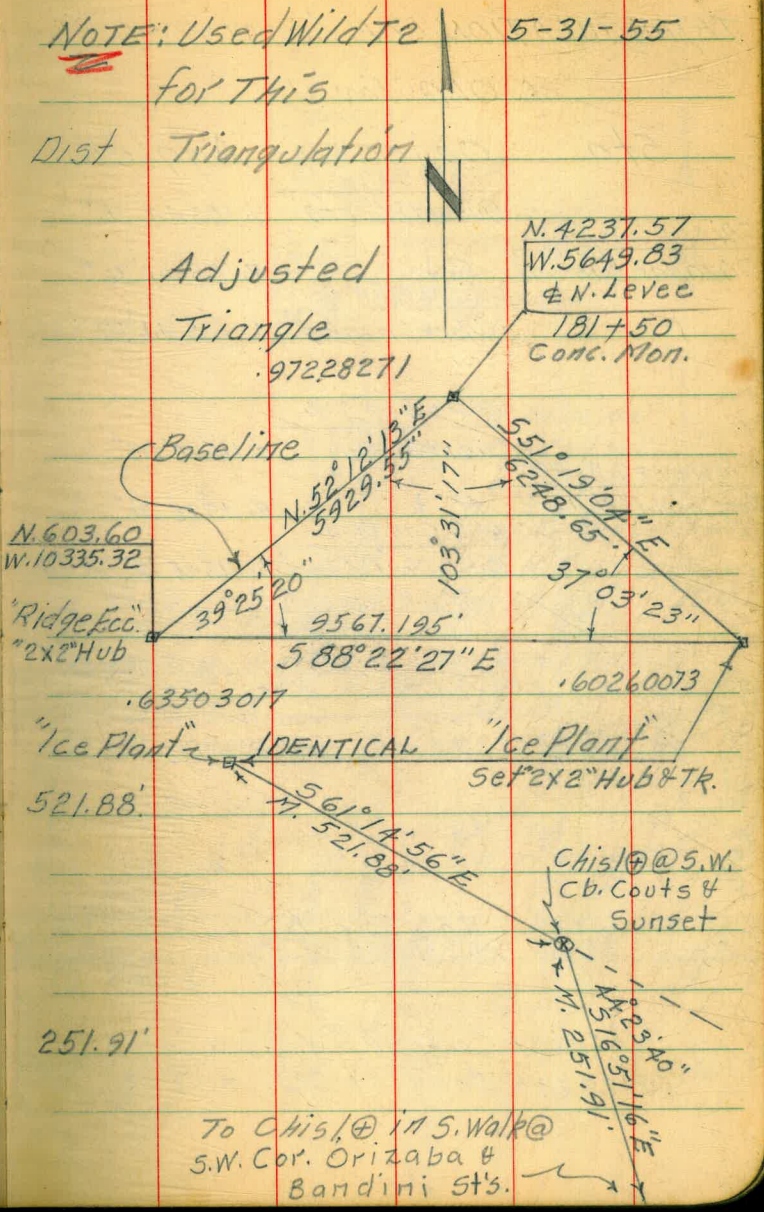
W. 1149.80

5929.55' N 52°12'13" E

TRIANGULATION FOR LOCATION OF STA. ◎ OLD TOWN

Sta	object	Angles
	"2x2" Hub "Ice Plant"	d. 103°31'18"
℄ N. Levee "181+50"	R	R. 103°31'13"
	"2x2" Hub Ridge Ecc.	Av. 103°31'15.5"
	"2x2" Hub "Ridge Ecc."	d. 37°03'25"
"2x2" Hub "Ice Plant"	R.	R. 37°03'18"
	℄ N. Levee "181+50"	Av. 37°03'22"
	℄ N. Levee "181+50"	d. 170°04'09"
"2x2" Hub "Ice Plant"	R	R. 170°04'07"
	Chis'l ⊕ S.W. cb. Coutts & Sunset	Av. 170°04'08"
	"2x2" Hub "Ice Plant"	d. 44°23'28"
Chis'l ⊕ S.W. Curb Coutts & Sunset	def. Rt.	R. 44°23'53"
	Chis'l ⊕ S.W. Cor. Orizaba & Bandini	Av. 44°23'40"

NOTE: Used Wild T2 for This Dist Triangulation 5-31-55



TRIANGULATION FOR LOCATION OF

△ OLD TOWN

Sta.	Object	Angles
	Chis'l⊕ S.W. Curb Sunset & Couts	d. 105°44'38"
Chis'l⊕ S.W. Cor. (S.W.) Orizaba & Bandini	R 7	R. 105°44'36"
	Chis'l⊕ @ S.W. Cor' Miller & Orizaba	Av. 105°44'37"
	Chis'l⊕ @ S.W. Cor. Orizaba & Bandini	d. 115°15'06"
Chis'l⊕ in S. Walk @ SW. Cor. Orizaba & Miller St.	R 7	R. 115°15'24"
	6" ⊙ Con. Mon. Ref. To Mon. "Old Town"	Av. 115°15'15"

Fd. L. & Tk. @ N.E. A. B.C. @ N.E. Cor. Couts & Orizaba St's.

7 2.00' Offset Line TAN. 8-25

Meas. 249.70'

To Chis'l⊕ @ S.W. Cor. Couts & Sunset

Curb ℄

N. 16°51'16" W. 251.91'

105° 44' 37"

N 88° 53' 21" E

M. 231.88'

Curb ℄

Set Chis'l Cross in S.W. @ S.W. Cor. Orizaba & Bandini St's.

5-31-55

Dist.

231.88'

50.91'

Frame & Stucco Bldg

Car Garage

NOTE: Mon. "Old Town" has been destroyed or is Under foundation of Bldg. as Shown

To Disk 104.06' (55°30'01"E 109.50') (1075/42)

d. 84°34'04"
R. 84°34'00"
Av. 84°34'02"

(Ref. To Mon. Old Town) Fd. 6" Circular Conc. Mon. (See F.B. 1075/42)

Set L. & City Disk in S.W. on Line To Coronado Hotel Prop. ℄

2.00'

(550.50 Rec.) M. 550.73'

Meas. 301.03'

5.44'

N. 89°55'57" E

2 ± To L. & Tk. @ NW. Cor. Arden Way

N. 24°08'36" E

20'

20'

℄ ORIZABA ST.

84°34'02" Td.

S. 5°30'44" E

M. 52.68'

115°15'15"

M. 50.91'

Tel. 29°39'20"

4'

5' S.W.

1' Prop. ℄

8'

R=25'

Fd. 5' Disk R.E. 32

5'

R=25' ±

Set Chis'l Cross in S. Walk

To Coronado Tower

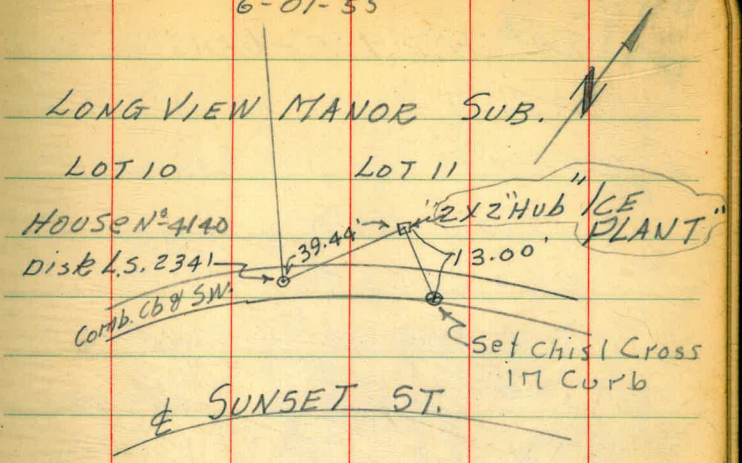
℄ MILLER ST.

Prop. ℄

TIE TO A ICE PLANT

6-01-55

LONG VIEW MANOR SUB.



INDEX

OCT 31 1955

PROPOSED ACCESS ROAD FROM VENTURA BLVD TO QUIVERA BASIN ELY LEASE BOUNDARY W.O. 64043

Curve Data $\Delta = 31°33'52"$

$\pm R = 465.58'$ $T = 131.59'$

$L = 256.48'$ $d = 3.691976$

Sta.	Def ∠	Chord
B.C. 2+82.63	0° 00' 00"	
17.37		
3+00	1° 04' 08"	17.37'
+25	2° 36' 26"	24.997'
+50	4° 08' 44"	
+75	5° 41' 02"	
4+00	7° 13' 20"	
+25	8° 45' 38"	
+50	10° 17' 56"	
+75	11° 50' 14"	
5+00	13° 22' 32"	
39.12' E.C. +39.12'	15° 46' 56"	39.11'

5+73 14° 55' 50"

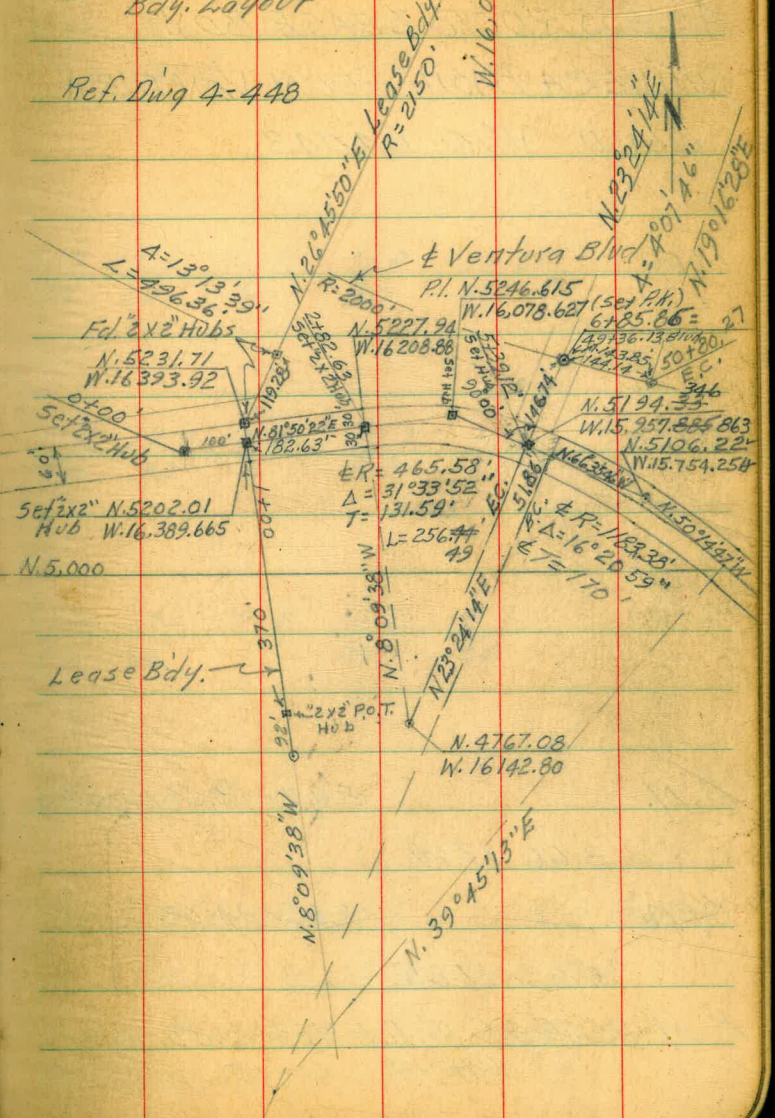
N.6,000

10-11-55 (20)

NOTE: See Pg. 7 for Lease Bdy. Layout

T.A. Stamper

Ref. Dwg 4-448



CROSS SECTIONS OF PROPOSED ACCESS RD. TO LEASE B'DY. QUIVERA BASIN FROM VENTURA BLVD W.O. 64093

	Lt.	℄	Rt
		10-11-55	
1+00	11.7 50	12.1 30	11.8 0	11.8 30	12.1 50
0+50	12.0 50	12.2 30	12.0 0	12.1 30	12.2 50
0+00	12.2 50	12.1 30	12.2 0	12.1 30	12.1 50

Stamper
Huffman
Kelley
Blunt

NOTE: Direct Elev Rod used

B.M. 8.47 9.22 ~ 9.23
3.66 17.69

T.B.M. 3.82 14.03
8.62 17.85

B.M. U.S.C.&G.S. M.L.L.W. ~ 9.23 Datum

Hosting Bench

P.K.F. Pole No 614267-H S'ly Side Ventura Blvd & W'ly Side of Access Rd.

L.&T.E. Top S'ly. Curb of Most W'ly. Launching Ramp Dana Basin

CROSS SECTIONS ACCESS R'D.

P.O.C.
3+50

P.O.C.
3+00 - 30° Lt. ℄ T.P. № 614268-H

B.C. Rt
2+82.63

2+50

2+00

1+50

1+05 - 14.5° Lt ℄ 6" G. Valve

1+05 - 60° Lt. ℄ F. Hydrant

Lt.		℄		Rt.	
12.8	50	13.2	30	12.8	0
12.2	50	12.9	30	13.0	0
12.0	50	12.8	30	12.6	0
12.0	50	12.6	30	12.0	0
11.9	50	12.2	30	11.7	0
12.0	50	12.2	30	11.3	0

12.2	30	11.9	50		
12.2	30	12.1	30		
12.2	30	12.2	50		
12.1	30	12.1	50		
12.0	30	11.6	50		
11.3	30	11.7	50		

LT

CROSS SECTIONS ACCESS RD.

5+50 = Sec. @ 90° To Bearing N. 23°24'14" E (See Sketch)

5+90.98 = Sec. @ 90° To Bearing S 66°35 46" E (See Sketch)

Tan 5/.86

E.C. 5+39.12

P.O.C. 5+00

P.O.C. 4+50

P.O.C. 4+00

℄

RT

12.9 / 50	13.6 / 30	13.4 / 0	13.3 / 30	13.1 / 50
13.3 / 50	13.3 / 30	13.0 / 0	13.5 / 30	13.4 / 50
13.6 / 50	13.4 / 30	13.3 / 0	13.4 / 30	13.4 / 50
13.1 / 50	12.9 / 30	13.5 / 0	13.3 / 30	13.0 / 50
13.0 / 50	13.1 / 30	13.3 / 0	13.2 / 30	12.5 / 50
12.9 / 50	13.0 / 30	13.0 / 0	12.6 / 30	12.5 / 50

Lt.

CROSS SECTIONS ACCESS R'D.

B.M. 14.03 –

Sec. Along ℄ Ventura

6+85.86 ℄ Ventura Blvd

Sec. Along Edge Pavt.

6+53 1/2 = Sly E.P. Ventura Blvd

6+19 6/10 45° Lt. ℄ PP N° 614267-H

6+13 3/10 – 58 6/10 Lt. ℄ 36" Palm Tree

6+10 6/10 – 59 4/10 Rt ℄ 36" Palm Tree

6+00

℄

10-11-55

Rt

(24)

14.03 (Starting Bench)

13.51	13.51	13.61	13.67	13.77	13.87	14.00
75	50	25	0	25	50	75

on P.K.

14.16	14.26	14.37	14.40	14.47	14.51	14.53
75	50	25	0	25	50	75

13.6	13.5	13.7	13.6	13.6
50	30	0	30	50

WO 65402

CHECK ON CLAMSHELL PILOT CHANNEL AS DUG BY CITY FORCES @ ENTRANCE TO QUIVERA BASIN

0+00 = 35' NLY OF 20' SLY OFFSET.

1+30 ± = R-8 E/Y

Dist	Sound	Elev	Dist	Sound	Elev
1+00	9.2	8.3		8.5	7.6
	9.9	8.0	50	7.8	6.9
10:32	9.8	8.9		8.4	6.5
	9.5	8.6		9.3	8.4
	9.3	8.4		8.3	7.4
50	9.7	8.8		8.2	7.3
	9.7	8.8	3+00	8.5	7.6
(0.9)	10.0	9.1		8.5	7.6
	9.1	8.2		8.0	7.1
	9.0	8.1		7.2	6.3
2+00	9.0	8.1		7.2	6.3
	8.5	7.6	50	9.1	8.2
	9.1	8.2	10:38	10.0	9.1
	9.2	8.3	@ Barge	9.0	8.1

3-19-56

(25)

Dist	Sound	Elev.	Dist	Sound	Elev
	7.5	6.6		11.5	10.6
10:45	6.6	5.7		11.2	10.3
4+00	7.2	6.3		12.0	11.1
	8.0	7.1	6+00	12.0	11.1
(09)	7.5	6.6			
	6.8	5.9			
	7.1	6.3			
50	7.0	6.1			
	6.5	5.6			
	6.7	5.8			
	7.0	6.1			
End Barge 10:48	7.5	6.6			
5+00	8.0	7.1			
10:53	9.6	8.7			
	10.5	9.6			
	11.0	10.1			
	10.5	9.6			
50	10.5	9.6			
	11.0	10.1			

Sta

INDEXED

MAY 14 1956

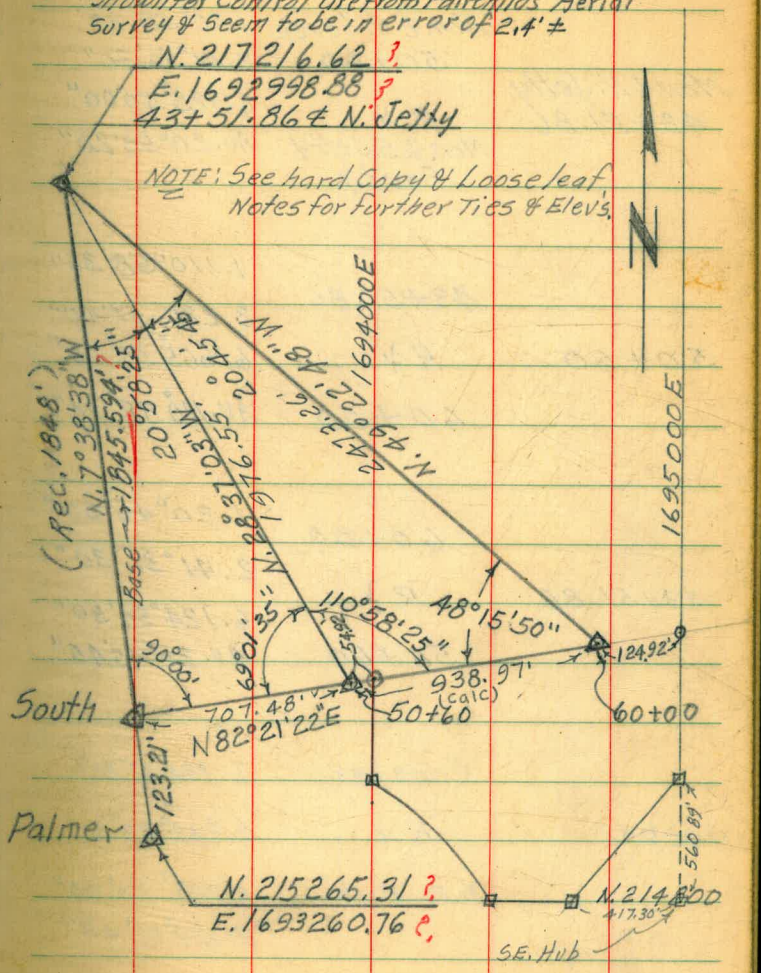
TRIANGULATION FOR CONTROL POINTS FOR TOPOGRAPHY OF PROPOSED SEA CONVERSION AREA, MISSION BAY

Sta	object	Angles
	43+51.86	1. 90°00'00"
Mon. South	R 7	2. 180°00'00"
	Mon. ℄ S. Levee	6. 540°00'00"
	60+00	Av. 90°00'00"
	℄ S. Jetty	1. 69°01'30"
	Mon. South.	2. 138°03'00"
Mon. ℄ S. Levee	R 7	6. 414°09'00"
50+60	Mon. ℄ N. Jetty	
	43+51.86	Av. 69°01'30"
	℄ S. Jetty	1. 48°15'45"
	Mon. South	2. 96°31'30"
Mon. ℄ S. Levee	R. 7	6. 289°35'00"
60+00	Mon. ℄ N. Jetty	
	43+51.86	Av. 48°15'50"
	Mon. ℄ S. Levee	1. 41°44'00"
	60+00	2. 83°28'00"
Mon. ℄ N. Jetty	R 7	6. 250°24'30"
43+51.86	Mon. ℄ S. Jetty	
	South.	Av. 41°44'05"

W021486 4-26-56 (27)

Stamper
Huffman
Blunt
Kelley

NOTE: The Lambert Coordinates shown for Control are from Fairchilds Aerial Survey & seem to be in error of 2.4' ±



NOTE: See hard Copy & Loose leaf Notes for further Ties & Elevs.

TRIANGULATION CONT'D.

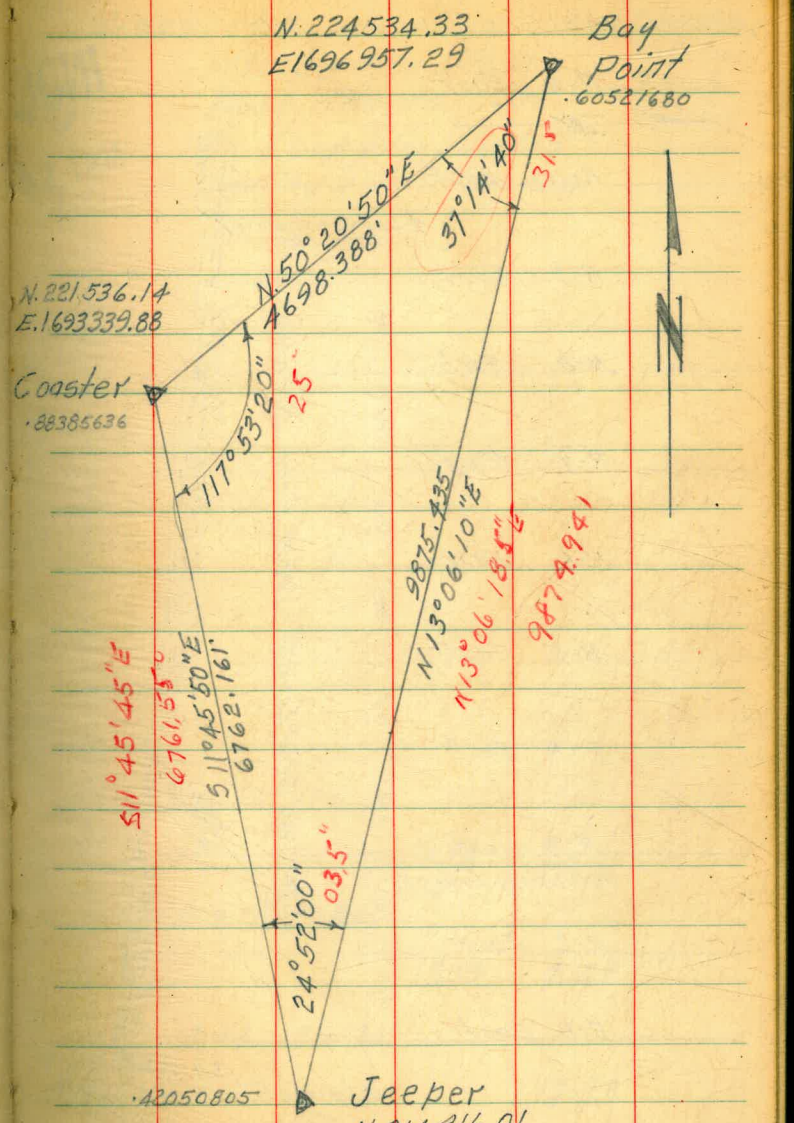
Sta.	object	Angles
	Mon. & S. Levee	1. 20° 58' 30"
	50+60	2. 41° 56' 30"
Mon. & N. Jetty		6. 125° 5' 00"
43+51.86	R ↓	Av. 20° 58' 20"
	Mon. & S. Jetty South	
		1. 110° 58' 30"
	43+51.86	2. 221° 57' 00"
50+60	R ↓	6. 665° 50' 00"
	60+00	Av. 110° 58' 20"
		1. 20° 46' 00"
	60+00	2. 41° 31' 30"
43+51.86	R ↓	6. 124° 34' 30"
	50+60	Av. 20° 45' 45"
	Coaster	1. 124° 31' 30"
Jeeper	R ↓	2. 249° 03' 30"
	S.E. Hub	6. 747° 16' 00"
		Av. 124° 31' 40"

TRIANGULATION CONT'D

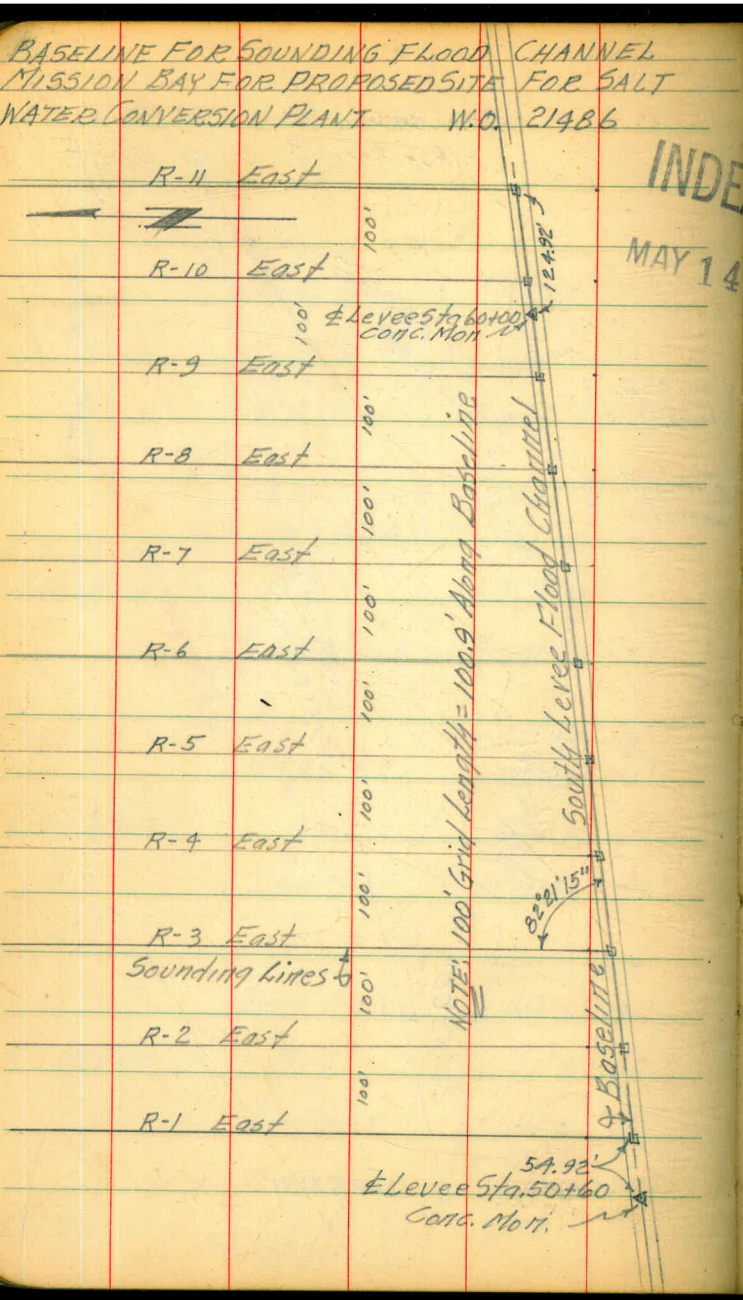
Sta.	Object	Angles
	Jeeper	1. 67°14'00"
SE. Hub	R ↓	2. 134°28'00"
	NE Hub ℄ Levee	6. 403°25'30"
		Av. 67°14'15"
	S.E. Hub	1. 115°51'00"
Jeeper	R ↓	2. 231°42'30"
	Hub. 417.30 W. of SE. Hub.	6. 695°08'00"
		Av. 115°51'20"
	Hub 417.30' W. of S.E. Hub	1. 22°45'45"
SE. Hub	R ↓	2. 45°31'30"
	Jeeper	Av. 22°45'45"
	℄ Levee	1. 55°26'30"
	N.W. Hub	2. 110°53'00"
SE Hub	R ↓	6. 332°39'00"
	℄ Levee N.E. Hub.	Av. 55°26'30"

TRIANGULATION CONT'D.

Sta.	Object	Angles
	S.E. Hub	1. 82°21'00"
℄ Levee		2. 164°42'00"
N.E. Hub	R ↴	6. 494°06'30"
	℄ S. Levee	
	N.W. Hub	Av. 82°21'15"
	℄ S. Levee	1. 42°12'15"
	N.E. Hub	2. 84°24'30"
℄ S. Levee		
N.W. Hub	R ↴	6. 253°13'30"
	S.E. Hub	Av. 42°12'15"
		1. 37°14'45"
	Jeeper	2. 74°29'30"
Bay Point	R ↴	6. 223°28'00"
	Coaster	Av. 37°14'40"
		1. 117°53'00"
	Bay Point	2. 235°47'00"
Coaster	R ↴	6. 707°20'00"
	Jeeper	Av. 117°53'20"
		1. 24°52'00"
	Coaster	2. 49°44'00"
Jeeper	R ↴	6. 149°12'00"
	Bay Point	Av. 24°52'00"



BASELINE FOR SOUNDING FLOOD CHANNEL
MISSION BAY FOR PROPOSED SITE FOR SALT
WATER CONVERSION PLANT W.O. 21486



5-04-56

(31)

NOTE: See Looseleaf X-Sec Notes for Area S'ly. of flood Channel; See Hard Copy for Situation Survey & Ties = M-466

Stamper
Huffman
Blunt
Kelley

		6.88	3.00
2.30	9.88		
		13.13	7.58
3.48	20.71		
R-4 ℄ Levee BM.			17.23

5-04-56

SOUNDINGS OF FLOOD CHANNEL, MISSION BAY

(See Sketch Pg. 31,) W.O. 21486

0+00 = 40' N. of ℄ Levee Baseline Sound North (R-1, See Sketch)

Dist	Sound	Elev.	Dist	Sound	Elev.
0+00			1+60	9.2	6.2
+10	0.0	+3.0		9.0	6.0
+20					
10:03	4.0	-1.0		8.5	5.5
+30	7.0	4.0		8.2	5.2
+40					
(3:0)	6.9	3.9	2+00	8.0	5.0
50	8.0	5.0		7.3	4.3
+60	7.8	4.8	10:10	7.0	4.0
+70	8.5	5.5		6.5	3.5
+80	9.0	6.0		6.0	3.0
+90	9.5	6.5	50	5.3	2.3
1+00	9.9	6.9		4.5	1.5
	10.0	7.0		4.0	1.0
	10.0	7.0		3.5	0.5
	9.9	6.9		3.2	0.2
	9.8	6.8	3+00	4.8	1.8
50	9.4	6.4		5.2	2.2

R-1 East

(32)

Dist	Sound	Elev	Dist.	Sound	Elev
3+20	5.2	2.2	6+10	5.8	+4.1
	5.2	2.2	6+60	6.3	+3.6
	5.2	2.2	6+85	7.6	+2.3
50	5.1	2.1			
	4.8	1.8			
	4.8	1.8			
10:12	4.8	1.8			
	3.8	0.8			
4+00	4.0	1.0			
(3.0)	4.0	1.0			
	4.2	1.2			
	4.0	1.0			
	3.7	0.7			
50	5.0	2.0			
Latin 60	0.2	+2.8	X		
	41 9.88				
4+75	6.4	+3.5			
5+10	6.0	+3.9			
5+60	6.1	+3.8			
[illegible]	6.1				

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R-2 EAST 0+00 = 40' N. OF ℄ OF SOUTH LEVEE

Dist	Sound	Elev	Dist	Sound	Elev
0+00				9.0	6.1
0+12	0.0	+2.9		9.0	6.1
	3.0	0.1		9.0	6.1
10:22	6.0	3.1	2+00	9.1	6.2
	4.5	1.6		8.8	5.9
50	6.0	3.1		8.0	5.1
	5.2	2.3	10.26	7.5	4.6
(2.9)	6.8	3.9		7.2	4.2
	7.1	4.2	50	7.0	4.1
	7.5	4.6		6.8	3.9
1+00	8.1	5.2		7.0	4.1
	8.8	5.9		6.8	3.9
	9.0	6.1		6.1	3.2
	9.0		3+00	6.5	3.6
	9.0			6.7	3.8
50	9.0			6.3	3.4
	9.0	6.1		6.2	3.3

R-2 EAST

(33)

Dist	Sound	Elev.	Dist Lath	Sound	Elev.
	6.1	3.2	5+30	0.2	+2.7
			41.99	NOTE	
3+50	6.0	3.1	5+80	5.5	+4.4
	5.8	2.9	6+30	5.6	+4.3
	5.5	2.6	6+80	6.1	+3.8
	5.4	2.5	6+90	7.7	+2.2
	5.4	2.5			
4+00	5.7	2.8			
	5.5	2.6			
(2.9)	5.6	2.7			
	5.5	2.6			
	5.6	2.7			
50	5.5	2.6			
10:30	5.1	2.2			
	5.1	2.2			
	4.8	1.9			
	3.3	0.4			
5+00	1.7	+1.2			
	1.0	+1.9			
	0.5	+2.4			

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R-3-EAST 0+00 = 40' N. of ℄ OF SOUTH LEVEE

Dist	Sound	Elev	Dist	Sound	Elev
0+00			1+70	8.5	5.7
0+12	0.0	+2.8	10:42	9.0	6.2
				9.0	6.2
10:38	4.0	1.2	2+00	8.8	6.0
	5.5	2.7		8.8	6.0
	4.8	2.0		8.5	5.7
50	5.8	3.0		8.5	5.7
	5.3	2.5		8.2	5.4
(2.8)	5.9	3.1	50	7.5	4.7
	6.0	3.2		7.3	4.5
	6.3	3.5		7.4	4.6
1+00	6.8	4.0		7.3	4.5
	6.8	4.0		7.0	4.2
	6.5	3.7	3+00	7.0	4.2
	6.2	3.4		7.4	4.6
	6.5	3.7		7.3	4.5
50	6.2	3.4		7.2	4.4
	7.0	4.2		7.0	4.2

R-3-EAST

Dist	Sound	Elev	Dist	Sound	Elev
50	7.1	4.3		1.2	+1.6
	7.0	4.2	50	1.2	
	6.9	4.1		1.2	
	7.0	4.2		1.2	+1.6
	7.0			1.3	+1.5
4+00	7.0			1.3	+1.5
10:45	7.0	4.2	6+00	1.7	+1.1
	6.8	4.0		1.8	+1.0
(2.8)	6.7	3.9	(2.8)	2.0	+0.8
	6.2	3.4	1048	2.1	+0.7
50	6.0	3.2		2.5	+0.3
	5.5	2.7	50	3.0	0.2
	4.8	2.0		3.4	0.6
	3.7	0.9		4.0	1.2
	1.5	+1.3		4.0	1.2
5+00	1.2	+1.6		4.0	1.2
	1.2		7+00	3.8	1.0
	1.2			0.8	+2.0
	1.2	+1.6		0.5	+2.3
				0.0	+2.8

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R-4 EAST. 0+00 = 40' NORTH OF

℄ OF SOUTH LEVEE

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00			1+70	7.0	4.3 ✓
0+13	0.0	+2.7 ✓	+80	7.2	4.5
	2.5	+0.5 ✓	+90	7.5	4.8 ✓
11:00	6.8	4.1 ✓	2+00	8.0	5.3 ✓
	7.5	4.8 ✓		8.0	5.3
50	6.5	3.8 ✓		8.0	5.3
	6.0	3.3 ✓		8.1	5.4
(2.7)	6.8	4.1 ✓		8.1	5.4
	6.9	4.2 ✓	50	8.2	5.5
	6.5	3.8 ✓		8.1	5.4
1+00	6.3	3.6		8.1	5.4
	6.1	3.4		7.8	5.1
	6.3	3.6		7.8	5.1
	6.5	3.8	3+00	7.8	5.1
	6.4	3.7		7.9	5.2 ✓
50	6.3	3.6		7.3	4.6 ✓
	6.5	3.8 ✓		7.1	4.4

R-4 EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	7.2	4.3		0.5	+2.2
50	7.1	4.4		0.5	+2.2
	7.0	4.3	50	0.7	+2.0 ✓
	6.8	4.1 ✓		1.0	+1.7
	6.4	3.7 ✓		1.0	+1.7
	6.1	3.4		1.0	+1.7
4+00	6.1	3.4		1.2	+1.5
	6.1	3.4	6+00	1.2	+1.5
(2.7)	5.8	3.1 ✓		1.2	+1.5
	5.3	2.6 ✓	(2.7)	1.0	+1.7
	4.8	2.1 ✓	11:08	1.2	+1.5
50	4.5	-1.8 ✓		1.4	+1.3
	1.5	+1.2 ✓	50	0.7	+2.0 ✓
11:05	1.0	+1.7			
	0.8	+1.9 ✓			
	0.5	+2.2 ✓			
5+00	0.5				
	0.5				
	0.5	+2.2			

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R-5 EAST, 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.3	3.7
0+15	0.0	+2.6		6.3	3.7
⁉	2.0	+0.6 ✓		6.1	3.5
11:15	5.0	-2.4 ✓	2+00	6.5	3.9
7	7.1	4.5 ✓		6.5	
50	5.3	2.7 ✓		6.5	
	4.8	2.2		6.5	
(2.6)	5.0	2.4		6.5	3.9
	5.0	2.4	50	6.3	3.7
	5.3	2.7		6.3	3.7 ✓
1+00	5.3	2.7		6.7	4.1 ✓
	5.2	2.6		7.0	4.4
	5.3	2.7 ✓		7.0	4.4
	6.0	3.4 ✓	3+00	7.0	4.4
	6.2	3.6		7.2	4.6 ✓
50	6.3	3.7		7.7	5.1 ✓
	6.3	3.7		6.8	4.2 ✓

R-5 EAST (36)

Dist	Sound	Elev	Dist	Sound	Elev
	6.8	4.2	11:25	0.5	+2.1 ✓
50	6.7	4.1 ✓		1.0	+1.6 ✓
11:21	6.3	3.7 ✓	50	1.3	+1.3
	6.3	3.7		1.5	+1.1
	6.2	3.6	(2.6)	1.5	+1.1 ✓
	6.5	3.9	11:28	2.0	+0.6 ✓
4+00	6.0	3.4		2.0	+0.6
(2.6)	6.0	3.4	6+00	2.4	+0.2
	5.9	3.3 ✓			
	5.5	2.9 ✓			
	5.0	2.4 ✓			
50	4.0	1.4 ✓			
	3.8	1.2 ✓	50		
	2.9	0.3 ✓			
	0.3	+2.3 ✓			
	0.5	+2.1			
5+00	0.5	+2.1			
	0.3	+2.3	7+00		
	0.3	+2.3			

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R-6 EAST 0+00 = 40' NORTH OF EOF SOUTH LEVEE, SOUND NORTH

Dist	Sound		Dist	Sound	Elev
0+00				6.2	3.7
0+12	0.0	+2.5 ✓		6.2	3.7
	3.0	0.5 ✓		6.3	3.8 ✓
11:37	5.0	2.5 ✓	2+00	6.6	4.1 ✓
	6.5	4.0 ✓	11.40	6.6	4.1
50	5.5	3.0 ✓		6.8	4.3
(2.5)	5.1	2.6	(2.5)	6.9	4.4
	5.5	3.0 ✓		7.0	4.5
	5.6	3.1	50	7.1	4.6
	5.5	3.0 ✓		7.2	4.7 ✓
1+00	5.0	2.5		7.6	5.1 ✓
	5.5	3.0 ✓		8.0	5.5
	5.7	3.2		8.1	5.6
	5.8	3.3	3+00	8.2	5.7
	6.0	3.5		8.2	5.7
56	6.0	3.5		8.2	5.7
	6.1	3.6		8.2	5.7

R-6 EAST

Dist	Sound	Elev	Dist	Sound	Elev
	8.1	5.6		4.9	2.4
50	8.1	5.6		5.0	2.5
	8.0	5.3	50	5.1	2.6
	7.9	5.4	11.45	5.3	2.8
	7.5	5.0 ✓		5.0	2.5
	5.8	3.3 ✓		5.0	
4+00	4.2	1.7 ✓	(2.5)	5.0	
	4.2	1.7	6+00	5.0	2.5
(2.5)	4.2	1.7		5.1	2.6
	4.5	2.0 ✓		5.2	2.7
	4.8	2.3		5.3	2.8
50	4.8	2.3		4.8	2.3
	4.8	2.3	50	5.0	2.5
	5.0	2.5		5.0	2.5
	5.1	2.6		5.0	2.5
	5.0	2.5		5.1	2.6
5+00	5.0	2.5		5.1	2.6
	4.9	2.4	7+00	4.8	2.3
	4.9	2.4		4.5	2.0 ✓

R-6 EAST

Dist	Sound	Elev
7+20	3.8	1.4
	4.2	1.8 ✓
	5.0	2.6 ✓
50	5.3	2.9 ✓
	6.0	3.6 ✓
(2.4)	7.1	4.7 ✓
	9.5	7.1 ✓
	12.0	9.6 ✓
8+00	12.7	10.3 ✓
	12.9	10.5 ✓
	10.3	7.9 ✓
	9.8	7.4 ✓
11:50	6.0	3.6 ✓
50	5.0	2.6 ✓
8+60	0.0	+2.4 ✓
@ Levee		

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R-7 EAST. 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE, SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.2	6.0 ✓
0+15	0.0	+2.2 ✓		6.0	5.8
(2.2)	2.5	-0.3 ✓		6.0	5.8
1252	7.1	4.9 ✓	2+00	5.9	5.7
	7.0	4.8		5.8	5.6
50	6.2	4.0 ✓		5.7	5.5
	5.2	3.0 ✓		5.8	5.6 ✓
	5.3	3.1		6.0	3.8 ✓
	5.4	3.2	50	6.0	3.8
	5.7	3.5		6.1	3.9
1+00	5.4	3.2		6.2	4.0 ✓
	5.4	3.2		6.2	4.0 ✓
	6.0	3.8		6.2	4.0 ✓
	6.1	3.9	3+00	6.5	4.3
	6.0	3.8		6.4	4.2
50	6.0	3.8 ✓		6.4	4.2
	6.5	4.3 ✓		6.7	4.5

E-7 EAST

Dist	Sound	Elev	Dist	Sound	Elev
3+40	6.8	4.6		4.4	2.2 ✓
50	6.8	4.6		4.2	2.0 ✓
12:56	6.8	4.6	50	4.2	2.0 ✓
	6.5	4.3	1:00	4.0	1.8
	6.3	4.1 ✓		3.8	1.6
	6.0	3.8 ✓		4.0	1.8 ✓
4+00	5.3	3.1		4.5	2.3 ✓
	5.4	3.2	6+00	4.5	2.3
(2.2)	5.6	3.4		5.0	2.8
	5.8	3.6		4.8	2.6
	5.7	3.5		4.8	2.6
30	5.7	3.5		5.0	2.8
	6.0	3.8	50	4.8	2.6
	6.0	3.8		4.5	2.3
	6.0	3.8		4.7	2.5
	5.8	3.6 ✓		5.0	2.8
5+00	5.1	2.9 ✓		5.0	≀
+10	4.3	2.1 ✓	7+00	5.0	≀
+20	4.0	1.8 ✓		5.0	2.8

E-7 EAST 4

Dist	Sound	Elev	Dist	Sound
	5.1	2.9		
	5.1	2.9 ✓		
	5.8	3.6 ✓		
50	7.2	5.0 ✓		
	8.0	5.8		
(2.2)	8.0	5.8		
	8.0	5.8		
	7.7	5.5 ✓		
8+00	7.0	4.8 ✓		
	7.0	4.8 ✓		
	8.0	5.8 ✓		
	7.8	5.6 ✓		
	6.8	4.6 ✓		
50	5.0	2.8 ✓		
55	0.0	+2.2 ✓		
@ Levee				

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R-8 EAST 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE, SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.2	4.1
0+16	0.0	+2.1 ✓		6.2	4.1
	1.0	+1.1 ✓		6.2	4.1
1:1.8	6.0	-3.9 ✓	2+00	6.3	4.2
	7.5	5.4 ✓		6.3	4.2
50	6.1	4.0 ✓		6.4	4.3
(2.1)	5.0	2.9 ✓		6.4	4.3
	5.3	3.2 ✓		6.4	4.3
	5.2	3.1	50	6.5	4.4
	5.6	3.5		6.7	4.6
1+00	5.8	3.7	1:2.2	6.6	4.5
	6.1	4.0 ✓		7.0	4.9 ✓
	6.1	4.0 ✓		7.6	5.5 ✓
	6.0	3.9	3+00	7.8	5.7
	6.0	3.9		7.8	5.7
50	6.0	3.9		8.0	5.9
	6.1	4.0 ✓		8.0	5.9

℄-8 EAST

(40)

Dist	Sound	Elev	Dist	Sound	Elev
	7.9	5.8		5.8	3.7
50	8.0	5.9		5.8	3.7
	7.9	5.8	50	6.0	3.9
	8.0	5.9		6.0	3.9
	7.9	5.8		6.0	3.9
	7.5	5.4 ✓		6.1	4.0 ✓
1+00	7.0	4.9 ✓		6.2	4.1
(2.1)	6.0	3.9 ✓	6+00	6.6	4.5
	5.3	3.2		6.7	4.6
	5.1	3.0 ✓		6.9	4.8
	5.0	2.9	1:2.7	6.9	4.8
50	5.0	2.9		7.0	4.9
	5.1	3.0 ✓	50	6.9	4.8
	5.1	3.0 ✓		6.9	4.8
	5.1	3.0 ✓		6.8	4.7
	5.2	3.1		6.8	4.7
5+00	5.5	3.4		6.9	4.8
	5.5	3.4	7+00	6.9	4.8
	5.8	3.7		6.8	4.7

R-8 EAST

Dist	Sound	Elev
7+20	6.8	4.7
	6.5	4.4
(2.1)	6.4	4.3
50	6.2	4.1
	6.1	4.0
1:28	6.0	3.9
	5.7	3.6
	5.2	3.1
8+00	4.9	2.8
	4.6	2.5
	5.2	3.1
	7.1	5.0
	6.5	4.4
50	3.0	0.9
8+55	0.0	+2.1

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R-9 EAST 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE, SOUND NORTH.

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.5	4.4
0+18	0.0	+2.1		6.5	
1:38 +00	0.5	+1.6	1:40	6.5	
+10	5.0	2.9	2+00	6.5	
(2.1) +10	7.5	5.4		6.5	4.4
50	4.5	2.4		6.6	4.6
	4.5	2.4		7.0	4.9
	5.0	2.9	+40	7.1	5.0
+80	5.1	3.0	50	7.3	5.2
	5.5	3.4		7.6	5.5
1+00	5.9	3.8		7.9	5.8
	6.0	3.9		7.9	5.8
+20	6.1	4.0		8.0	5.9
+30	6.1	4.0	3+00	8.0	5.9
	6.2	4.1	+10	8.3	6.2
50	6.3	4.2		83	6.2
	6.5	4.4		85	6.4

E-9 EAST

Dist	Sound	Elev	Dist	Sound	Elev
3+40	8.8	6.8	5+30	6.0	4.0
50	8.9	6.9		6.1	4.1
+60	9.0	7.0	50	6.1	4.1
	8.8	6.8		6.1	4.1
(2.0)	8.5	6.5		6.2	4.2
+90	8.1	6.1		6.3	4.3
4+00	7.8	5.8		6.5	4.3
+10 1.43	6.8	4.8	6+00	6.7	4.7
	6.3	4.3		6.5	4.5
	6.2	4.2		6.2	4.2
	6.2	4.2		6.1	4.1
50	6.1	4.1	+40	6.0	4.0
	6.1	}	50	6.1	4.1
	6.1	}		6.2	4.2
	6.1	4.1		6.3	4.3
	6.1	4.1		6.3	4.3
5+00	6.0	4.0		6.4	4.4
+10	6.0	4.0	7+00	6.4	4.4
+20	6.0	4.0		6.1	4.1

E-9 EAST

Dist	Sound	Elev
6+48	6.1	4.1
	6.8	4.8
	6.8	4.8
7+50	6.5	4.5
+60 (2.0)	6.2	4.2
+70	5.5	3.5
	5.1	3.1
+90	5.0	3.0
8+00	4.9	2.9
+10	5.0	3.0
+20	6.0	4.0
+30	4.5	2.5
+40	4.5	2.5
50	0.0	+2.0

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R-10 EAST ; 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE, SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			1+70	6.0	4.0 ✓
0+16	0.0	+2.0 ✓		6.1	4.1
2:00 +20	1.0	+1.0 ✓		6.1	4.1
+30	7.2	5.2 ✓	2+00	6.1	
+40	6.5	4.5 ✓		6.1	
50	5.1	3.1 ✓		6.1	4.1
(2.0)	5.0	3.0 ✓		6.2	4.2
	5.1	3.1		6.5	4.5
	5.2	3.2	50	6.7	4.7
	5.7	3.7		6.9	4.9
1+00	6.0	4.0 ✓		7.0	5.0 ✓
	6.5	4.5		8.0	6.0 ✓
	6.5	4.5		8.5	6.5
	6.1	4.1	3+00	8.7	6.7
	6.0	4.0 ✓		9.0	7.0 ✓
50	6.0	4.0 ✓		9.0	7.0 ✓
	6.0	4.0 ✓		9.0	7.0 ✓

R-10 EAST (43)

Dist	Sound	Elev	Dist	Sound	Elev
3+40	9.0	7.0 ✓	5+30	6.8	4.8
50	9.0	7.0 ✓		6.8	
	9.0	7.0 ✓	50	6.8	
(2.0)	8.8	6.8		6.8	4.8 ✓
	8.8	6.8		7.3	5.3 ✓
	8.7	6.7		8.0	6.0 ✓
4+00	8.1	6.1 ✓		8.1	6.1
2:05	7.5	5.5 ✓	6+00	8.5	6.5
	7.0	5.0 ✓		8.5	6.5
	7.0	5.0 ✓		8.5	
	6.8	4.8		8.5	
50	7.0	5.0 ✓		8.5	
	6.8	4.8	50	8.5	
	6.8			8.5	6.5
	6.8			8.7	6.7
	6.8	4.8		8.8	6.8
5+00	6.9	4.9	2:10	9.0	7.0 ✓
	6.8	4.8	7+00	9.0	7.0 ✓
	6.9	4.9		9.0	7.0 ✓

R-10 EAST

Dist	Sound	Elev
7+20	9.0	7.0 ✓
	9.0	✓
	9.0	✓
50	9.0	7.0 ✓
	8.0	6.0 ✓
(2.0)	6.3	4.3 ✓
	6.0	4.0 ✓
	6.0	4.0 ✓
8+00	5.9	3.9
	5.9	3.9
	5.5	3.5
	5.0	3.0 ✓
2:13	4.0	2.0 ✓
50	1.0	+1.0 ✓
8+55	0.0	+2.0 ✓

5-04-56 (44)

R-11 0+00 = 40' NORTH OF ℄ OF SOUTH LEVEE

Dist	Sound	Elev	Dist	Sound	Elev
0+00				6.8	4.7
0+15	0.0	+2.1 ✓	(2.1)	6.8	4.7
2:20	1.0	+1.1 ✓		7.0	4.9
	4.5	2.4 ✓	2+00	7.0	
(2.1)	6.0	3.9 ✓	2:25	7.0	
50	5.0	2.9 ✓		7.0	
	4.5	2.4		7.0	4.9 ✓
	4.5	2.4		7.3	5.2 ✓
	5.0	2.9 ✓	50	7.5	5.4
	5.2	3.1 ✓		7.5	5.4
1+00	6.0	3.9 ✓		7.5	5.4
	6.3	4.2 ✓		8.0	5.9 ✓
	6.5	4.4		8.5	6.4 ✓
	6.3	4.2	3+00	8.8	6.7
	6.3	4.2		8.8	6.7
50	6.3	4.2		8.8	6.7
	6.5	4.4		9.0	6.9

R-11 EAST

Dist	Sound	Elev.	Dist	Sound	Elev
	9.0	6,9		7,7	5.6
50	9.0	6,9		7.5	5.4
	9.0	6,9	50	7.3	5.2
2:27	8,8	6.7		7.8	5.7 ✓
	9.0	6.9		8.2	6.1 ✓
(2.1)	8.8	6.7	2:30	8.3	6.2
4+00	8.5	6.4		8.2	6.1
	8.5	6.4	6+00	8.2	6.1
	8.3	6.2 ✓		8.2	6.1
	8.0	59 ✓		8.1	6.0 ✓
	7.5	54		8.1	6.0 ✓
50	7.8	5.7		8.0	5,9
	7.8	5,7	50	8.0	5,9
	7.8	5.7		8.0	5,9
	7.8	5,7		8.0	5,9
	7.8	)		8.1	6.0 ✓
5+00	7.8	)		8.1	6.0 ✓
	7.8	)	7+00	8.2	6.1
	7.8	5.7		8.1	6.0 ✓

R-11 EAST

(45)

Dist	Sound	Elev.	Dist	Sound
	8.1	6.0 ✓		
(2.1)	8.1	6.0 ✓		
	8.0	59		
50	7.8	5.7 ✓		
	6.5	4.4 ✓		
	5.8	3.7 ✓		
	5.8	3.7		
	5.9	3.8		
8+00	5.9	3.8		
	5.8	3.7		
	6.0	3.9		
	5.3	3.2 ✓		
	4.0	1.9 ✓		
50	1.0	+1.1 ✓		
8+55	0.0	+2.1 ✓		
@ Levee				

Stamper Blunt

SOUNDINGS MISSION BAY AREA FOR EROSION STUDY W.O. 64010

0+00 = N. 6503.20; W 15028.67; SOUND N. 42°39'05"W

Dist	Sound	Elev	Dist	Sound	Elev
1+00				15.0	10.5
			4.5	15.2	10.7
4.5	2.6	+1.9		15.3	10.8
10:37	3.4	+1.1		15.6	11.1
	4.2	+0.3	3+00	15.7	11.2
50	5.0	0.5	10:40	15.5	11.0
	7.9	3.4		14.6	10.1
	9.2	4.7		14.0	9.5
	10.9	6.4		14.3	9.8
	11.9	7.4	50	14.0	9.5
2+00	12.5	8.0		13.1	8.6
	13.4	8.9		12.5	8.0
	13.5	9.0		12.6	8.1
	14.2	9.7		12.5	8.0
	14.8	10.3	4+00	11.8	7.3
50	15.1	10.6		11.8	7.3

Kelley Wentworth

4-15-57

SOUND N. 42°39'05"W

Dist	Sound	Elev	Dist	Sound	Elev
	12.9	8.4		11.8	7.3
4.5	12.9	8.4	4.5	11.4	6.9
	13.0	8.5		13.0	8.5
50	13.1	8.6		13.4	8.9
	13.0	8.5	50	13.6	9.1
	14.0	9.5		13.9	9.4
	14.1	9.6		14.2	9.7
	13.6	9.1		13.5	9.0
5+00	13.7	9.2		13.5	9.0
	14.0	9.5	7+00	14.8	10.3
	13.5	9.0		14.2	9.7
	13.5	9.0	10:45	14.5	10.0
	13.4	8.9		14.3	9.8
50	12.2	7.7		13.6	9.1
	13.2	8.7	50	13.5	9.0
	11.2	6.7		13.3	8.8
	12.1	7.6		13.3	8.8
	12.1	7.6		12.9	8.4
6+00	12.0	7.5		12.6	8.1

SOUND N.42°39'05"W

Dist	Sound	Elev	Dist	Sound	Elev
8+00	12.8	8.3	(4.5)	13.1	8.6
(4.5)	12.5	8.0	10+00	13.4	8.9
	13.0	8.5		13.5	9.0
	12.8	8.3		13.6	9.1
	12.3	7.8		12.8	8.3
50	12.7	8.2		12.2	7.7
	12.8	8.3	50	11.4	6.9
	13.3	8.8	10.50	12.0	7.5
	13.4	8.9		11.8	7.3
	13.7	9.2		11.5	7.0
9+00	13.7	9.2		11.7	7.2
	13.6	9.1	11+00	12.0	7.5
	13.4	8.9		12.0	7.5
	13.1	8.6		11.3	6.8
	12.6	8.1		8.4	3.9
50	12.9	8.4		7.8	3.3
	12.8	8.3	50	5.9	1.4
	12.8	8.3		4.1	+0.4
	13.0	8.5		3.3	+1.2
				2.0	+2.5
			11+90	0.0	+4.5

4-15-57 (47)

0+00 = N.6105.97; W15,722.46 SOUND N.60°16'20"E

Dist	Sound	Elev	Dist	Sound	Elev
1+70	0.0	+4.5	50	12.8	8.3
(4.5)	1.8	+2.7	(4.3)	12.8	8.3
9:50	3.4	+1.1		13.1	8.6
2+00	5.9	1.4		12.9	8.4
	11.0	6.5		12.8	8.3
	12.4	7.9	4+00	12.4	7.9
	12.5	8.0		12.3	7.8
	12.6	8.1		12.2	7.7
50	12.9	8.4		12.2	7.7
	12.8	8.3		12.1	7.6
	12.9	8.4	50	12.1	7.6
	12.5	8.0		12.2	7.7
	12.4	7.9		12.9	8.4
3+00	12.4	}		13.0	8.5
	12.4	}		13.0	8.5
	12.4	7.9	5+00	13.1	8.6
	12.3	7.8		13.0	8.5
	12.6	8.1		12.8	8.3

SOUND N.60°16'20"E 4-15-57

Dist	Sound	Elev	Dist	Sound	Elev
(4.6)	12.6	8.0			
	12.5	7.9			
50	12.4	7.8			
	12.3	7.7			
	11.9	7.3			
	11.5	6.9			
	10.9	6.3			
6+00	10.6	6.0			
	9.8	5.2			
9:55	7.8	3.2			
≈	6.1	1.5			
	5.1	0.5			
50	4.2	+0.4			
	3.4	+1.2			
	3.0	+1.6			
	2.8	+1.8			
6+90	2.1	+2.5			

(Contd Pg 57)

0+00 = N.6105.47; W15722.46 SOUND N.15°14'50"W

Dist	Sound	Elev	Dist	Sound	Elev
1+00			(4.6)	15.6	11.0
(4.6)	+0.3	+4.9		15.9	11.3
10:02	0.6	+4.0	3+00	16.8	12.2
≈	2.2	+2.4		17.2	12.6
	2.7	+1.9	10:05	17.3	12.7
50	3.1	+1.5	≈	17.3	12.7
	3.6	+1.0		17.4	12.8
	4.2	+0.4	50	17.2	12.6
	5.1	0.5		16.8	12.2
	9.0	4.4		15.9	11.3
2+00	11.4	6.8		14.9	10.3
	12.4	7.8		13.9	9.3
	13.2	8.7	4+00	13.1	8.5
	13.9	9.3		13.1	8.5
	14.7	10.1		13.1	8.5
50	14.8	10.2		13.3	8.7
	15.2	10.6		13.7	9.1
	15.2	10.6	50	14.2	9.6

SOUND N 15° 14' 50" W 4-15-57

Dist	Sound	Elev	Dist	Sound	Elev
(4.6)	14.2	9.6	50	12.0	7.4
	13.9	9.3	(4.6)	12.3	7.7
	13.9	9.3		13.0	8.4
	13.5	8.9	10:10	13.2	8.6
5+00	13.2	8.6		13.7	9.1
	13.2	8.6	7+00	13.6	9.0
	13.4	8.8		13.4	8.6
	13.0	8.4		13.2	8.6
	12.9	8.3		13.2	8.6
50	13.5	8.9		13.2	8.6
	13.6	9.0	50	13.3	8.7
	13.3	8.7		13.4	8.8
	12.0	7.4		13.5	8.9
	11.9	7.3		13.4	8.8
6+00	12.2	7.6		12.9	8.3
	12.1	7.5	8+00	12.8	8.2
	12.3	7.7		12.3	7.7
	12.1	7.5		12.0	7.4
	12.0	7.4		12.0	7.4

SOUND N. 15° 14' 50" W

Dist	Sound	Elev	Dist	Sound	Elev
(4.6)	11.9	7.3	(4.6)	13.5	8.9
50	11.7	7.1		13.3	8.7
	11.4	6.8	50	13.2	8.6
	11.3	6.7		13.6	9.0
	11.3	6.7	10:15	13.7	9.1
	12.2	7.6		14.7	10.1
9+00	12.5	7.9		13.9	9.3
	13.1	8.5	11+00	14.0	9.4
	13.0	8.4		13.6	9.0
	12.5	7.9		12.4	7.8
	12.0	7.4		11.0	6.4
50	11.7	7.1		10.6	6.0
	11.8	7.2	50	9.4	4.8
	11.4	6.8		8.2	3.6
	11.7	7.1		5.3	0.7
	13.0	8.4		4.3	+0.3
10+00	13.2	8.6		3.5	+1.1
	13.2	8.6	12+00	2.9	+1.7
	13.1	8.5		1.9	+2.7
			12+20	0.5	+4.1

0+00 = N. 7741.09; W 16169.02 SOUND 5.66°40'W

Dist	Sound	Elev	Dist	Sound	Elev
4+60	0.8	+3.2	(4.0)	12.8	8.8
(4.0)	1.9	+2.1	50	12.0	8.0
11:35	2.3	+1.7	·	11.5	7.5
·	2.7	+1.3	·	11.7	7.7
5+00	3.3	+0.7	·	13.1	9.1
·	4.3	0.3	·	13.2	9.2
·	6.0	2.0	7+00	12.4	8.4
·	8.9	4.9	·	12.1	8.1
·	11.0	7.0	·	11.5	7.5
50	12.5	8.5	·	11.1	7.1
·	13.3	9.3	·	10.6	6.6
·	14.4	10.4	50	9.9	5.9
·	15.2	11.2	·	8.9	4.9
·	15.6	11.6	·	8.6	4.6
6+00	15.5	11.5	·	9.0	5.0
·	15.4	11.4	·	10.1	6.1
·	15.2	11.2	8+00	10.2	6.2
·	14.2	10.2	·	10.3	6.3

Dist	Sound	Elev	Dist	Sound	Elev
(3.9)	9.0	5.1	(3.9)	11.0	7.1
·	9.0	5.1	·	11.0	7.1
·	9.3	4.4	·	11.2	7.3
+50	9.8	5.9	·	11.4	7.5
·	9.5	5.6	50	11.5	7.6
·	8.0	4.1	·	11.5	7.6
·	7.9	4.0	·	11.8	7.9
·	6.2	2.3	·	12.0	8.1
9+00	5.7	1.8	·	12.9	9.0
11:40	6.8	2.9	11+00	13.1	9.2
·	7.9	4.0	·	13.3	9.4
·	10.1	6.2	·	14.0	10.1
·	10.2	6.3	·	14.4	10.5
50	9.9	6.0	·	15.0	11.1
·	10.2	6.3	50	15.2	11.3
·	9.6	5.7	·	14.7	10.8
·	10.3	6.4	·	14.8	10.9
·	10.7	6.7	·	14.6	10.7
10+00	10.9	7.0	·	15.3	11.4

SOUND S.66°40'W 4-15-57

Dist	Sound	Elev
12+00	15.2	11.3
(3.9)	15.4	11.5
	16.0	12.1
11:45	15.7	11.8
	15.5	11.6
50	15.4	11.5
	14.8	10.9
	13.7	9.8
	11.8	7.9
	10.8	6.9
13+00	8.2	4.3
	3.4	+0.5
	2.3	+1.6
	0.0	+3.9
50		

SEC. S.60°16'20"W. 4-15-57 M

PROFILES. 0+00=N6503.20 W.15028.67

Sta	+	H.I.	-	Elev	
B.M.	1.94	14.22		12.28	Chislo Parking Area W14 C.B. Dana Landing
0			2.5	11.7	
90			4.0	10.2	
95			6.6	7.6	
123			12.2	2.0	

SEC. N.42°39'05"W V.A

Sta	+	H.I.	-	Elev
87			4.7	9.5
100			6.3	7.9
120			12.3	1.9

4-15-57

0+00 = N. 6105.97, W 5,722.46 SOUND N. 67°46'03" W

Dist	Sound	Elev	Dist	Sound	Elev
2+00			(2.6)	14.3	11.7
(2.6)	0.4	+2.2		15.1	12.5
1:17	0.6	+2.0	4+00	15.2	12.6
	1.2	+1.4	1:20	15.3	12.7
	1.3	+1.3		15.4	12.8
50	1.8	+0.8		15.4	12.8
	2.6	0.0		15.0	12.4
	4.0	1.4	50	14.7	12.1
	5.0	2.4		14.2	11.6
	6.9	4.3		13.4	10.8
3+00	7.0	4.4		12.8	10.2
	7.2	4.6		12.2	9.6
	9.3	6.7	5+00	11.8	9.2
	11.2	8.6		11.4	8.8
	12.0	9.4		11.4	8.8
50	12.1	9.5		12.0	9.4
	13.0	10.4		11.0	8.4
	13.6	11.0	50	11.3	8.7

SOUND N. 67°46'03 W

(52)

Dist	Sound	Elev	Dist	Sound	Elev
(2.6)	9.9	7.3	(2.5) 50	9.7	7.2
	10.0	7.4	1:25	9.0	6.5
	10.4	7.8		8.0	5.5
	11.1	8.5		8.2	5.7
6+00	11.2	8.6		7.8	5.3
	11.0	8.4	8+00	8.3	5.8
	11.6	9.0		8.2	5.7
	11.9	9.3		7.9	5.4
	11.4	8.8		8.0	5.5
50	11.4	8.8		7.9	7.4
	12.0	9.4	50	7.8	5.3
	12.2	9.6		7.8	5.3
	11.8	9.2		7.9	5.4
	12.0	9.4		8.0	5.5
7+00	12.0	9.4		8.0	5.5
	11.0	8.4	9+00	7.4	4.9
	9.8	7.2		8.2	5.7
	9.7	7.1		8.2	5.7
	9.8	7.2		8.2	5.7

SOUND N.67°46'03" W 4-15-57

Dist	Sound	Elev	Dist	Sound	Elev
(2.4)	7.2	4.8	(2.4)	7.8	5.4
50	7.0	4.6		5.2	2.8
	6.5	4.1	50	6.4	4.0
	6.1	3.7		7.0	4.6
	6.0	3.6		6.9	4.5
	5.4	3.0		7.2	4.8
10+00	6.7	4.3		7.2	4.8
	8.2	5.8	12+00	7.7	5.3
1:30	9.5	7.1		9.8	7.4
	10.8	8.4		9.7	7.3
	11.6	9.2		9.4	7.0
50	12.6	10.2		9.2	6.8
	12.5	10.1	50	9.3	6.9
	12.0	9.6		10.3	7.9
	10.5	8.1		10.9	8.5
	8.2	5.8		11.4	9.0
11+00	7.7	5.3		11.8	9.4
	5.8	3.4	13+00	13.0	10.6
	7.3	4.9		13.3	10.9

SOUND N.67°46'03" W

(53)

Dist	Sound	Elev	Dist	Sound	Elev
(2.3)	13.7	11.4	(2.2)	16.4	14.2
	13.8	11.5		15.5	13.3
1:35	14.0	11.7		15.0	12.8
50	14.1	11.8		15.0	12.8
	13.6	11.3	50	15.0	12.8
	12.9	10.6		14.3	12.1
	12.6	10.3		14.3	12.1
	13.2	10.9		14.9	12.7
14+00	13.3	11.0		14.4	12.2
	13.4	11.1	16+00	14.6	12.4
	13.6	11.3		14.3	12.1
	14.1	11.8	1:40	12.9	10.7
	14.6	12.3		12.4	10.2
50	14.5	12.2		11.7	9.5
	14.5	12.2	50	10.6	8.4
	15.3	13.0		10.8	8.6
	16.0	13.7		10.5	8.3
	16.4	14.1		9.6	7.4
15+00	16.4	14.1		9.5	7.3

SOUND N. 67°46'03" W

Dist	Sound	Elev
17+00	9.4	7.2
(2.2)	8.5	6.3
	8.8	6.6
	8.7	6.5
	8.8	6.6
50	8.4	6.2
	7.8	5.6
142	6.3	4.1
	3.0	0.8
	0.6	+1.6
(Lot 6) 18+00		

4-15-57

SEC. S. 67°46'03" E

PROFILES 0+00 = N. 6,985.54, W 7,874.30

Sta	+	H.I.	−	Elev	
BM.				11.39	Coaster
	4.24	15.63			
TP.			4.29	11.34	
	6.69	18.03			
TP.			6.30	11.73	
	3.18	14.91			
450'			2.0	12.9	
474'			2.3	12.6	
510'			6.7	8.2	
543'			11.5	3.4	
553'			13.3	1.6	
SEC. N. 66°40' E					
490'			4.5	10.4	
542			9.8	5.1	
570			13.4	1.5	

SEC. N. 60°16'20"E

PROFILES; 0+00 = N. 6105.97; W 15722.46

Sta	+	H.I.	−	Elev	
BM.	3.48	12.71		9.23	L+TK. L. Ramp
0			2.5	10.2	
8.7			2.9	9.8	
100			3.6	9.1	
110			4.2	8.5	
116			6.6	6.1	
170			8.2	4.5	

SEC. N. 15°14'50"W

75			3.4	9.3	
95			6.1	6.6	
110			7.8	4.9	

SEC. N. 67°46'03"W

(55)

Sta	+	H.I.	−	Elev
		12.7		
100			3.1	9.6
122			4.0	8.7
175			8.0	4.7
210			10.4	2.3

SEC. 5. 66°40'W

PROFILES 0+00 = N. 7741.09; W 16169.02

Sta	+	H. I.	-	Elev.	
				8.98	Base W. Vane Pole @ W. End Yacht Pool
BM.				~~11.27~~	
TP.	10.10	19.08	5.29	13.79	
	1.79	15.58			
390			2.6	13.0	
429			8.2	7.4	
460			12.4	3.2	

(Contd. Pg 50)

S. 15°14'50"E

TP.	1.00	14.79		13.79	
390			2.8	12.0	
460			8.0	6.8	
498			12.8	2.0	

SEC. 5. 42°39'05"E

Sta	+	H. I.	-	Elev.	
		14.79			
420			5.8	9.0	
466			7.0	7.8	
503			10.9	3.9	
518			12.8	2.0	

CHECK LEVELS

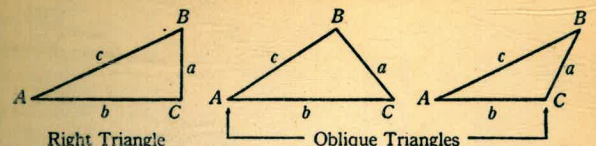
BM.				14.45	NWLY Tierra Cotta Ped. Timing Pad
	3.66	18.11			
TBM.			9.13	8.98	Base W. Vane Pole @ W End Yacht Pool

DIST	SOUND	ELEV	DIST	SOUND	ELEV

DIST	SOUND	ELEV	DIST	SOUND	ELEV.

100)1.00(.01.) (Bill Henton)

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	$s = \frac{a+b+c}{2}, \sin \frac{1}{2} A = \sqrt{\frac{(s-b)(s-c)}{b\,c}}$ $\sin \frac{1}{2} B = \sqrt{\frac{(s-a)(s-c)}{a\,c}}, C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)\,(s-b)\,(s-c)}$
A, b, c	Area	area $= \frac{b\,c \sin A}{2}$
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, for a slope distance of 403.6 ft. and a vertical angle of 4° 40′—the cosine of 4° 40′, taken from a table of natural trigonometrical functions, = .9967, and horizontal distance = 403.6 x .9967 = 402.27 ft.

Horizontal distance also = Slope distance minus slope distance times (1 — cosine of vertical angle). Using the same figures as in the preceding example — Cos. 4° 40′ = .9967 1 — .9967 = .0033. 403.6 x .0033 = 1.33 ft. Horizontal dist. = 403.6 - 1.33 = 402.27 ft.

When the rise is known, the horizontal distance may be found by the following approximate rule:— the slope distance less the square of the rise divided by twice the slope distance. Thus, for a slope distance of 372.5 ft., and a rise of 15 ft. the horizontal distance =

$$372.5 - \frac{15 \times 15}{2 \times 372.5} = 372.5 - .30 = 372.2 \text{ ft.}$$

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