

MISSION BOOK

NO. 17

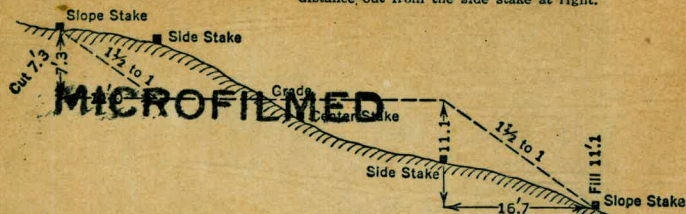
K & E

LEVEL BOOK

W 373 A

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

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

71.66
 BOOK NO. 17

75.00
 52.82
 71.66
 199.48
 20.77
 178.71

761'

89° 57' 30"

2 / 175 55

FULL

22
 21
 23
 18
 20
 3
 2/80 32
 6.77

15 5.3 5
 04.62
 80.65

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

D
In the f
from the

cut 13

359-59.60
10-11-36
399 98-29

Cur or
Fill

0	
1	
2	
3	
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7	1
8	1
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11	1
12	1
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CHECK SOUNDINGS PROJECT # 7
 PX: STA - 75+00

7-3-47
 BARRAGAN
 SHERRY
 STANLEY

PX STA - 75+00 7-3-47
 DIST SOUND DIST SOUND Indexed

0+00 = Pt. 210' E. of STA-75+00 VENTURA B/L: SOUND
 DUNE

EAST AT 90° To B/L.

DIST	SOUND	DIST	SOUND
12.30 2+90	11.7 - 8.2	4+60	11.4 - 7.9
3+00	12.0 - 8.5		11.4 - 7.9
09:55 +10	13.0 - 9.5	(3.5)	11.4 - 7.9
(3.5)	13.0 - 9.5		11.4 - 7.9
	13.0 - 9.5	5+00	11.4 - 7.9
	13.2 - 8.7		11.5 - 8.0
50	13.0 - 9.5		11.5 - 8.0
	13.0 - 9.5		12.8 - 9.3
	12.8 - 9.3		12.0 - 8.5
	12.7 - 9.2	50	11.8 - 8.3
	12.5 - 9.0		11.8 - 8.3
4+00	12.4 - 8.9		11.5 - 8.0
	12.2 - 8.7		11.5 - 8.0
	11.5 - 8.0		12.0 - 8.5
	11.6 - 8.1	6+00	12.0 - 8.5
	11.6 - 8.1		13.8 - 10.3
4+50	11.5 - 8.0	6+20	13.0 - 9.5

DIST	SOUND	DIST	SOUND
6+30	12.7 - 9.2	8+30	13.0 - 9.5
09:58	13.5 - 10.0		13.0 - 9.5
50	13.5 - 10.0	50	12.9 - 10.4
(3.5)	13.2 - 9.7	(3.5)	13.1 - 9.6
	13.0 - 9.5		14.5 - 11.0
	13.2 - 9.7		14.2 - 10.7
	13.2 - 9.7		13.0 - 9.5
7+00	13.6 - 10.1	9+00	13.5 - 10.0
	13.0 - 9.5		13.9 - 9.8
	12.8 - 9.3		14.0 - 10.5
	12.7 - 9.2	10:03	13.0 - 9.5
	12.7 - 9.2		13.0 - 9.5
50	13.0 - 9.5	50	14.1 - 10.6
10:00	13.0 - 9.5		14.2 - 10.7
	13.0 - 9.5		14.0 - 10.5
	13.0 - 9.5		14.0 - 10.5
	14.3 - 10.8		14.0 - 10.5
8+00	14.0 - 10.5	10+00	13.7 - 10.2
	14.0 - 10.5		14.0 - 10.5
8+20	13.3 - 9.8	10+20	14.0 - 10.5

PX STA - 75+00 7-3-47

DIST	SOUND	DIST	SOUND
10+30	14.0 -10.5	12+30	12.2 -8.7
(3.5)	14.7 -11.2		12.0 -8.5
50	14.2 -10.7	50	12.0 -8.5
	14.0 -10.5	(3.5)	12.0 -8.5
	13.3 -9.8		12.0 -8.5
	13.0 -9.5		12.0 -8.5
	13.4 -9.9		12.0 -8.5
11+00	13.7 -10.2	13+00	
	13.8 -9.3	<u>10.12</u>	
	13.7 -10.2		
	13.7 -10.2		
	14.1 -10.6		
50	13.7 -10.2		
	13.1 -9.6		
	12.9 -9.4		
	12.9 -9.4		
	12.8 -9.3		
12+00	12.6 -9.1		
	12.7 -9.2		
12+20	12.5 -9.0		

STA - 76+00 PX 7-3-47 (3)

0+00 = PT. 200' E OF STA - 76+00 VENTURA ISLAND

SOUND EAST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
2+50	11.4 -7.9	4+30	13.0 -9.5
10.22	10.5 -7.0	10.25	13.0 -9.5
(3.5)	10.4 -6.9	50	13.4 -9.9
	10.7 -7.2	(3.5)	13.2 -9.7
	10.7 -7.2		13.0 -9.5
3+00	12.0 -8.5		13.0 -9.5
	12.2 -8.7		13.0 -9.5
	12.5 -9.0	5+00	13.0 -9.5
	13.2 -9.7		13.3 -9.8
	13.1 -9.6		13.0 -9.5
50	13.0 -9.5	50	13.0 -9.5
	13.0 -9.5		12.9 -9.4
	13.0 -9.5	50	12.8 -9.3
	12.7 -9.2		12.7 -9.2
	12.6 -9.1		12.4 -8.9
4+00	12.7 -9.2		12.2 -8.7
	12.0 -8.5		14.0 -10.5
4+20	12.5 -9.0	6+00	15.0 11.5

PX		STA- 767 00		7-3-47		PX		STA- 767 00		7-3-47		(3)
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	
6+10	15.0 -11.5	8+10	12.7 -9.2	10+10	12.9 -9.4	12+10	15.0 -11.5					
	14.3 -10.8		13.2 -9.5		12.6 -9.1	12+20	15.3 -11.8					
(3.5)	14.0 -10.5		13.3 -9.8	(3.5)	12.7 -9.2							
	14.1 -10.6	(3.5)	12.0 -8.5		12.7 -9.2	(3.5)						
50	14.3 -10.8	50	12.4 -8.9	50	13.5 -10.0							
	14.0 -10.5		12.0 -8.5		12.8 -9.3							
	14.0 -10.5	<u>10:30</u>	12.2 -8.7		12.4 -8.9							
	13.8 -10.3		12.8 -9.3		12.4 -8.9							
	13.9 -10.4		14.0 -10.5		13.4 -9.9							
7+00	14.0 -10.5	9+00	12.5 -9.0	11+00	12.9 -9.4							
	13.0 -9.5		12.5 -9.0		12.5 -9.0							
	13.5 -10.0		13.0 -9.5		11.8 -8.3							
	13.7 -10.2		12.2 -8.7		12.0 -8.5							
<u>10:28</u>	12.0 -8.5		12.0 -8.5		12.1 -8.6							
50	12.8 -9.3	50	12.0 -8.5	50	12.0 -8.5							
	12.8 -9.3		13.0 -9.5	<u>10:33</u>	11.5 -8.0							
	13.0 -9.5		13.0 -9.5		11.7 -8.2							
	12.9 -9.4		12.7 -9.2		12.8 -9.3							
	12.0 -8.5		12.6 -9.1		12.9 -9.4							
8+00	11.7 -8.2	10+00	12.1 -8.6	12+00	12.7 -8.9							

PX STA - 77 + 00 7-3-47
 0+00 = Pt. 170' E. of STA - 77+00 VENTURA BAY SOUND

PX STA - 77 + 00 7-3-47 (4)
 DIST SOUND DIST SOUND

EAST AT 90° TO BAY		DIST		SOUND		DIST		SOUND	
5+90	12.4	-8.9	7+90	11.6	-8.1				
6+00	13.6	-10.1	8+00	11.6	-8.1				
10:47 2+30	11.5	-8.0	4+10	12.0	-8.5	10:55	8+00	11.6	-8.1
10:47 50	11.5	-8.0		12.2	-8.7	(3.5)		11.5	-8.0
(3.5)	12.0	-8.5	(3.5)	12.3	-8.8			12.5	-9.0
	12.6	-9.1	50	12.6	-9.1	50		12.5	-9.0
	12.4	-8.9		13.5	-10.0			12.5	-9.0
	12.4	-8.9		13.6	-9.5			12.4	-8.9
3+00	12.4	-8.9		13.6	-9.5			12.0	-8.5
	12.8	-9.3		13.4	-9.9			12.0	-8.5
	12.8	-9.3	5+00	13.0	-9.5	7+00		12.2	-8.7
	12.8	-9.3		12.5	-9.0			12.2	-8.7
	12.8	-9.3		12.4	-8.9			12.4	-8.9
50	12.9	-9.4		12.3	-8.8			14.0	-10.5
	12.9	-9.4		12.3	-8.8			13.8	-10.3
	12.0	-8.5	50	12.0	-8.5	50		12.5	-9.0
	12.0	-8.5		11.8	-8.3			11.9	-8.4
	12.1	8.6	10:52	11.9	-8.4			50	12.5
4+00	12.0	-8.5	5+80	11.9	-8.4	7+80		12.4	-8.9
								12.3	-8.8
								11.2	-7.7
								11.0	-7.5

PX STA- 77+00		DIST SOUND	
9+90	10.3	-6.8	
10+00	11.1	-7.6	
10:58	10.2	-6.7	
(3.5)	10.0	-6.5	
	9.3	-5.8	
	8.5	-5.0	
50	8.5	-5.0	
	9.1	-5.6	
	9.5	-6.0	
	10.0	-6.5	
	10.0	-6.5	
11+00	10.0	-6.5	
	9.0	-5.5	
	7.8	-4.3	
	6.0	-2.5	
	3.6	-0.1	
50	3.3	+0.2	
	3.0	+0.5	
	3.5	0.0	
11+80	7.1	-3.6	

PX STA- 78+00		9+3-47		⑤	
+00 = Pt. 120' E. of STA- 78+00 KENTUCKY B/L					
SOUND EAST AT 90° TO B/L					
DIST SOUND		DIST SOUND			
9+80					
2+80	13.0	-9.6	4+60	11.5	-8.1
(3.4)	12.5	-9.1	(3.4)	11.5	-8.1
3+00	12.0	-8.6		11.5	-8.1
12:04	11.4	-8.0		11.5	-8.1
	12.0	-8.6	5+00	13.0	-9.6
	12.4	-9.0		13.1	-9.7
	12.4	-9.0		12.7	-9.3
50	12.5	-9.1		12.2	-8.8
	12.3	-8.9		11.8	-8.4
	11.5	-8.1	50	11.8	-8.4
	11.5	-8.1		11.5	-8.1
	11.5	-8.1		11.1	-7.7
4+00	12.5	-9.1		10.7	-7.3
12:05	12.1	-8.7		10.5	-7.1
	12.0	-8.6	6+00	11.5	-8.1
	11.7	-8.3		12.2	-8.8
	11.7	-8.3	12:08	12.5	-9.1
4+50	11.6	-8.2	6+30	12.3	-8.9

PX	STA	78+00	73-47		
DIST	SOUND		DIST	SOUND	
6+40	12.0	-8.6	8+40	11.6	-8.2
50	12.3	-8.9	50	12.0	-8.1
(3.4)	11.8	-8.4	(3.4)	12.0	-8.1
	12.0	-8.6		12.0	-8.1
	11.7	-8.3	<u>12:13</u>	12.1	-8.1
	11.6	-8.2		12.1	-8.1
7+00	11.8	-8.4	9+00	11.0	-7.6
<u>12:10</u>	11.9	-8.5		9.5	-6.1
	11.8	-8.4		8.5	-5.1
	12.2	-8.8		8.0	-4.6
	12.3	-8.9		5.6	-2.2
50	12.1	-8.7	50	3.0	+0.4
	12.4	-9.0	9+60	1.0	+2.4
	12.4	-9.0			
	12.5	-9.1			
	12.4	-9.0			
8+00	12.1	-8.7			
	11.7	-8.3			
	11.6	-8.2			
8+30	11.6	-8.2			

PX	STA	79+00	73-47		
	0+00 = STA-79+00	VENTURA P.H.		SOUND	EAST
	At 90°	To P.H.			
DIST	SOUND		DIST	SOUND	
3+50	12.7	-9.4	5+30	10.7	-7.4
<u>12:19</u>	12.3	-9.0		10.7	-7.4
(3.3)	12.1	-8.8	50	10.7	-7.4
	12.2	-8.9	(3.3)	10.7	-7.4
	12.2	-8.9		10.7	-7.4
	11.8	-8.5	4+00	11.8	-8.5
	11.9	-8.6		11.9	-8.6
	11.9	-8.6	6+00	11.8	-8.5
	11.8	-8.6		11.9	-8.6
	11.6	-8.3		11.7	-8.4
50	11.7	-8.4		11.6	-8.3
	11.6	-8.3		11.5	-8.2
	11.9	-8.6	50	11.4	-8.1
	11.1	-7.8		11.1	-7.8
	11.0	-7.7		11.2	-7.9
5+00	10.8	-7.5		11.1	-7.8
	10.5	-7.2		11.1	-7.8
5+20	10.5	-7.2	7+00	11.9	-8.6

PX		STA	79+	80	7-3-47
DIST	SOUND		DIST	SOUND	
7+10	13.0	-9.7	9+10	12.1	-8.8
<u>12:43</u>	13.1	-9.8		12.1	-8.8
	13.0	-9.7		12.0	-8.7
(3.3)	13.0	-9.7	(3.3)	11.5	-8.2
50	12.9	-9.6	50	10.0	-6.7
	13.0	-9.7		9.0	-5.7
	12.9	-9.6		8.5	-5.2
	12.8	-9.5		6.0	-2.7
	12.7	-9.4	9+85	0.0	+3.3
8+00	12.5	-9.2			
	11.0	-7.7			
	12.5	-9.2			
	12.0	-8.7			
	12.4	-9.1			
50	12.0	-8.7			
<u>12:45</u>	12.1	-8.8			
	12.3	-9.0			
	12.3	-9.0			
	12.1	-8.8			
9+00	12.1	-8.8			

PX		CHECK SOUNDINGS PROJECT # 7		7-10-47
		STA-86+00		(7)
		0+00 = ^{PROOTOD} STA-86+00 : SOUND WEST AT 90° TO P/L.		
DIST	SOUND	DIST	SOUND	
0+00	1.3	+2.6	1+00	13.0 -9.1
<u>13:50</u>	1.0	+2.9		12.8 -8.9
(3.9)	1.0	+2.9	2+00	12.5 -8.6
	1.1	+2.8	(3.9)	13.5 -9.6
	1.2	+2.7		13.0 -9.1
50	1.2	+2.7		12.6 -8.7
	1.2	+2.7		12.6 -8.7
	1.2	+2.7	50	12.5 -8.6
	4.7	-0.4		12.4 -8.5
	8.4	-4.5		12.0 -8.1
1+00	10.8	-6.9	<u>13:55</u>	12.0 -8.1
	13.4	-9.5		11.5 -7.6
<u>13:59</u>	13.0	-8.1	3+00	12.0 -8.1
	13.0	-9.1		12.2 -8.3
	13.0	-9.1		10.0 -6.1
50	13.1	-9.2		3.5 +0.4
	13.1	-9.2	3+40	1.5 +2.4
1+70	13.1	-9.2	WEST BANK	

7-10-47

PX

STA- 85+00

0+00 = ¹⁰⁰⁺⁰⁰_{R-85+00} : SOUND WEST AT 90° To R/L

DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
0+00	2.5	+1.6	1+80	12.0	-7.9	0+00	2.0	+2.1	1+80	11.7	-7.6
<u>14:17</u> +0	2.4	+1.7		12.0	-7.9	<u>14:20</u> +0	2.0	+2.1		11.7	-7.6
(4.1)	2.0	+2.1	2+00	12.0	-7.9		2.3	+1.8	2+00	11.7	-7.6
	1.0	+3.1	(4.1)	12.0	-7.9	(4.1)	2.2	+1.9	(4.1)	11.5	-7.4
	0.8	+3.3		11.9	-7.8		4.1	0.0		11.5	-7.4
50	3.0	+1.1		12.0	-7.9	50	8.4	-4.3		11.8	-7.7
	7.8	-3.7		12.3	-8.2		11.0	-6.9		12.2	-8.1
	9.5	-5.4	50	12.5	-8.0	<u>14:23</u>	11.5	-7.4	50	12.0	-7.9
	13.3	-9.2		12.5	-8.5		11.5	-7.4		12.1	-8.0
	13.1	-9.0	<u>14:23</u>	11.5	-7.4		12.0	-7.9		12.0	-7.9
1+00	12.7	-8.6		12.0	-7.9	1+00	12.0	-7.9		12.1	-8.0
<u>14:20</u>	12.8	-8.7		6.8	-2.7		12.0	-7.9		12.1	-8.0
	13.0	-8.9	3+00	0.0	14.1		11.7	-7.6	3+00	12.5	-8.4
	13.0	-8.9	WEST BANK				11.5	-7.4		12.3	-8.2
	13.0	-8.9					11.5	-7.4		12.3	-8.2
50	12.8	-8.7				50	12.5	-8.4		12.3	-8.2
	12.7	-8.6				<u>14:35</u>	12.8	-8.7	<u>14:38</u>	12.8	-8.7
1+70	12.7	-8.6					12.1	-8.0	3+50	12.1	-8.0
									3+60	3.5	+0.6

7-10-47

PX

STA- 84+00

0+00 = ¹⁰⁰⁺⁰⁰_{R-84+00} : SOUND WEST AT 90° To R/L

(8)

DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
0+00	2.5	+1.6	1+80	12.0	-7.9	0+00	2.0	+2.1	1+80	11.7	-7.6
<u>14:17</u> +0	2.4	+1.7		12.0	-7.9	<u>14:20</u> +0	2.0	+2.1		11.7	-7.6
(4.1)	2.0	+2.1	2+00	12.0	-7.9		2.3	+1.8	2+00	11.7	-7.6
	1.0	+3.1	(4.1)	12.0	-7.9	(4.1)	2.2	+1.9	(4.1)	11.5	-7.4
	0.8	+3.3		11.9	-7.8		4.1	0.0		11.5	-7.4
50	3.0	+1.1		12.0	-7.9	50	8.4	-4.3		11.8	-7.7
	7.8	-3.7		12.3	-8.2		11.0	-6.9		12.2	-8.1
	9.5	-5.4	50	12.5	-8.0	<u>14:23</u>	11.5	-7.4	50	12.0	-7.9
	13.3	-9.2		12.5	-8.5		11.5	-7.4		12.1	-8.0
	13.1	-9.0	<u>14:23</u>	11.5	-7.4		12.0	-7.9		12.0	-7.9
1+00	12.7	-8.6		12.0	-7.9	1+00	12.0	-7.9		12.1	-8.0
<u>14:20</u>	12.8	-8.7		6.8	-2.7		12.0	-7.9		12.1	-8.0
	13.0	-8.9	3+00	0.0	14.1		11.7	-7.6	3+00	12.5	-8.4
	13.0	-8.9	WEST BANK				11.5	-7.4		12.3	-8.2
	13.0	-8.9					11.5	-7.4		12.3	-8.2
50	12.8	-8.7				50	12.5	-8.4		12.3	-8.2
	12.7	-8.6				<u>14:35</u>	12.8	-8.7	<u>14:38</u>	12.8	-8.7
1+70	12.7	-8.6					12.1	-8.0	3+50	12.1	-8.0
									3+60	3.5	+0.6

7-10-47

PX

STA- 83 + 00

0+00 = {¹⁰⁰⁺⁰⁰~~R-83+00~~ STA-83+00} SOUND WEST AT 90° TO R/L.

DIST	SOUND		DIST	SOUND	
0+00	3.0	+1.1	1+80	13.3	-9.2
<u>14:45</u>					
HO	4.0	+0.1		13.7	-9.6
(4.1)	10.2	-6.1	2+00	13.0	-8.9
	13.5	-9.4	(4.1)	12.8	-8.7
	13.0	-8.9		13.1	-9.0
50	13.0	-8.9		12.5	-8.9
	13.0	-8.9	<u>14:50</u>	12.8	-8.7
	12.5	-8.9	50	13.0	-8.9
	12.7	-8.6		12.8	-8.7
	13.0	-8.9		12.8	-8.7
1+00	13.0	-8.9		13.0	-8.9
<u>14:47</u>					
	12.7	-8.6		12.7	-8.6
	12.7	-8.6	3+00	12.0	-7.9
	13.5	-9.4		12.4	-8.3
	13.6	-9.5		11.0	-5.9
50	13.1	-9.0		11.1	-6.0
	13.2	-9.1		1.0	+3.1
1+70	13.2	-9.1	3+50		

7-1-47

PX,

STA- 82 + 00

0+00 = {¹⁰⁰⁺⁰⁰~~R-82+00~~ STA-82+00} SOUND WEST AT 90° TO R/L.

DIST	SOUND		DIST	SOUND	
0+00	13.2	-9.1	1+80	12.0	-7.9
<u>15:03</u>					
HO	13.0	-8.9		13.0	-8.9
(4.1)	13.0	-8.9	2+00	13.0	-8.9
	12.5	-8.4	(4.1)	13.0	-8.9
	12.3	-8.2	<u>15:05</u>	13.0	-8.9
50	12.3	-8.2		13.1	-9.0
	13.3	-9.2		13.2	-9.1
	13.2	-9.1	50	13.0	-8.9
	13.2	-9.1		13.0	-8.9
	12.7	-8.6		13.3	-9.2
				13.3	-9.2
1+00	11.8	-7.7		12.8	-7.7
<u>15:07</u>					
	11.7	-7.6		12.0	-7.9
	11.7	-7.6	3+00	8.4	-4.3
	11.8	-7.7		10.5	-6.4
	12.4	-8.3		11.8	-7.7
50	12.5	-8.4		10.0	-5.9
	12.8	-8.7	<u>15:07</u>	10.0	-5.9
1+70	12.5	-8.4	50	8.6	-4.5

PX		STA- 82+00		7-10-47	
DIST	SOUND	DIST	SOUND		
3760	8.2 -4.1				
	8.7 -4.6				
(4.1)	6.5 -2.4				
15:09	4.4 -0.3				
4+00	4.3 -0.2				

0+00 = $\left\{ \begin{array}{l} \text{Sta } 100+00 \\ \text{Sta } 82+00 \end{array} \right\}$ SOUND EAST AT 90° TO R/L

DIST	SOUND	DIST	SOUND
0+00			
87+00	12.8 -8.7		
15:12 +20	12.4 -8.3		
(4.1)	12.0 -7.9		
	12.0 -7.9		
50	11.4 -7.3		
	12.0 -7.9		
	10.2 -6.1		
	6.0 -1.9		
	2.0 +2.1		
1+00			

Pro. #7	Final x Sections		7-11-47	
	Sta 58+00			
0+00	Sta 58+00 R. 111+00	Sec. 90° to BL		
	H1		Elev.	
	3.65	17.02	13.37	
0+00			5.0	12.0
0+60			5.0	12.0
E 132			4.9	12.1
E 190			4.8	12.2
E 260			5.0	12.0
E 343			5.7	11.3
E 425			5.2	11.8
E 505			5.1	11.9
E 610			5.2	11.8
E 723			5.8	11.2
E 810			6.1	10.9
E 885			6.3	10.7
E 965			6.3	10.7
E 1025			6.5	10.5
E 1110			6.7	10.3
E 1130			6.0	11.0

PX (20)
Indexed
T.B.M.
Sta 57+00
R 111+00

7-11-47

PX

Sta 57+00

0+00 = ^{Sta. 57+00} R. 111+00 Sec. 90° to T.B.L

Dist + HI - Elev

Dist + HI - Elev

3.52 17.74 14.22

T.B.M.
56+00
R. 111+00

E 105

17.74

5.2 12.5

E 1150

6.5 11.2

E 45

5.4 12.3

E 1130

7.0 10.7

0+00

5.1 12.6

E 1050

7.0 10.7

E 980

7.0 10.7

Sta 56+00

E 910

6.5 11.2

0+00

^{Sta 56+00}
R. 111+00

Sect 90° to T.B.L

E 850

6.1 11.6

Dist

+ HI - Elev

E 770

6.0 11.7

3.34 18.20

14.86

T.B.M.
Sta 55+00
R. 111+00

E 695

5.8 11.9

0+00

5.1 13.1

E 640

5.7 12.0

E 155

5.1 13.1

E 565

5.7 12.0

E 110

4.8 13.4

E 495

5.7 12.7

E 160

4.8 13.4

E 425

5.5 12.2

E 220

5.0 13.2

E 350

5.6 12.1

E 270

5.4 12.8

E 283

5.2 12.5

E 330

5.3 12.9

E 225

5.0 12.0

E 395

5.5 12.7

E 165

5.1 12.6

E 450

5.3 12.9

7-11-47 ①

Sta. 57+00 Cont.

PX

PX

7-11-47

STA 56+00

STA 56+00

DIST R. 111+00 SEC. 90° TO B.L.

DIST + H.I. - ELEV

E 510 18.20 5.5 12.7

E 565 5.5 12.7

E 630 5.6 12.6

E 685 6.1 12.1

T.P. 4.48 17.43 5.25 12.95

0+00 = (R-117+85)
(STA-36+00)

E 0+60 5.0 12.4

E 118 5.0 12.4

E 175 5.2 12.2

E 225 5.3 12.1

E 275 5.7 11.7

E 330 6.2 11.2

E 385 6.2 11.2

E 465 5.5 11.9

E 475 6.1 11.3

DX

11.69

1.2

1.74

STA 55+00

0+00 - Causeway B.L.

DIST + H.I. - ELEV.

4.99 16.36 11.37

(Causeway)
0+00 (B.L.)
STA 55+00

0+00 5.0 11.3

W 0+40 5.3 11.0

W 0+95 5.5 10.8

W 150 4.7 11.6

W 205 4.3 12.0

W 260 4.1 12.2

W 315 3.7 12.6

W 375 3.7 12.6

W 430 3.3 13.0

W 490 3.4 12.9

W 550 3.7 12.6

W 610 3.7 12.6

T.P. 4.53 17.66 3.23 13.13

0+00 610 W STA 56+00

CAUSEWAY B.L.

W. 43 4.5 13.1

W. 102 4.6 13.0

7-11-47 (12)

TOP HUB
STA-56+00
CAUSEWAY B.L.

PX

STA 55+00 Cont

DIST	+	H.I.	-	ELEV.
W 160		17.60	4.4	13.2
W 210			3.9	13.7
W 265			4.2	13.4
W 325			4.0	13.6
W 385			3.8	13.8
W 463			3.6	14.0
W 563			4.0	13.6

PX

7-11-47 (13)

Sta 54+00

Sta. 54+00
R 111+00 Sect. at 90° to B.L.

DIST	+	H I	-	Elev
		4.48	19.34	14.86
0+00			5.1	14.2
80+52			5.0	14.3
E 122			4.9	14.4
E 195			4.8	14.5
E 250			5.0	14.3
E 310			5.0	14.3
E 375			4.8	14.5
E 445			5.2	14.1
E 515			5.6	13.7
E (602)			4.9	14.4
T.P.	4.51	18.37	5.48	13.86
0+00	R/1702	Sta 9+00	54+00	
E 0165			5.1	13.3
E 142			4.9	13.5
E 220			5.5	12.9
E 295			5.9	12.5

TBM,

Sta 55+00

R 111+00

7-11-47

PX

7-11-47

①

PX

Sta 54+00 Cont

Sta. 53+00 Cont.

Dist + HI - Elev

Dist + HI - Elev

18.37

18.51

E 385

6.3 12.1

W 190

4.0 14.5

E 470

7.1 11.3

W 185

3.7 14.8

E 530

7.2 11.2

W 165

4.3 14.2

E 580

7.1 11.3

0+00

4.9 13.6

E 604

7.1 11.3

E 0155

5.0 13.5

E 112

5.6 12.9

Sta 53+00

E 185

5.6 12.9

0+00 = R 1702 Sect at 90°
Sta 53+00

E 270

5.7 12.8

Dist + HI - Elev

E 350

5.9 12.6

3.32 18.51

T.B.M.
Sta. 53+00 R. 11100
15.19

E 405

6.4 12.1

W 602

4.0 14.5

E 482

6.9 11.6

W 545

3.9 14.6

E 623

8.1 10.4

W 485

3.9 14.6

W 435

3.7 14.8

W 370

3.8 14.7

W 303

4.0 14.5

W 245

4.0 14.5

7-11-47

Px

Sta. 52+00

0+00 = ^{Sta. 52+00} ~~R. 7702~~ Sect at 90°
₁₁₇₊₀₂

Dist	+	H.I.	-	Elev
	3.26	18.78		^{TBM} 15.52 Sta. 52+00 R. 111102
E 655			7.2	11.6
E 650			10.9	7.9
E 635			10.5	8.3
E 615			7.5	11.3
E 560			7.4	11.4
E 490			6.9	11.9
E 410			6.1	12.7
E 395			6.0	12.8
E 282			5.8	13.0
E 218			5.9	12.9
E 165			5.8	13.0
E 100			5.9	12.9
E 0+48			5.5	13.3
0+00			4.9	13.9

W

W

7-11-47 (D)

Px

Sta 52+00 Cont.

Dist	+	H.I.	-	Elev
		18.78	4.6	14.2
			4.2	14.6
			4.1	14.7
			4.2	14.6
			4.0	14.8
			4.3	14.5
			4.5	14.3
			3.8	15.0
			3.9	14.9

PX

7-11-47

Sta 51+00

0+00 = ^{Sta 51+00} R-114+00 Sect at 90° To R/L

Dist	+	H.I.	-	Elev
	2.49	18.66		16.17

T.P.M.
Sta 50+00
R-114+00

0+00 5.1 13.6

E 0+60 4.6 14.1

E 125 4.4 14.3

E 185 4.5 14.2

E 245 4.5 14.2

E 310 4.1 14.6

E 390 4.9 13.8

E 465 5.1 13.6

E 550 5.1 13.6

E 585 5.3 13.4

E 615 12.1 6.6

E 700 12.8 5.9

E 760 13.5 5.2

E 820 13.1 5.6

E 970 13.1 5.6

E 995 7.6 11.1

PX

7-11-47

STA-50+00

0+00 = ^(R-114+00) STA-50+00 SECTIONS AT 90° To R/L

Dist	+	H.I.	-	ELEV
	5.06	19.89		14.83

TOP HUB
STA-51+00

E 500 14.7 5.2

E 435 14.1 5.8

E 385 13.8 6.1

E 320 13.4 6.5

E 290 9.1 10.8

E 267 5.4 14.5

E 205 5.1 14.8

E 120 4.8 15.1

E 55 4.7 15.2

0+00 5.0 14.9

(STA-89+10)				
(R-114+00)				

(STA-49+10)				
(R-114+00)				

(STA-48+95)				
(R-114+00)				

(STA-46+50)				
(R-114+00)				

14.4 5.5

16

SOUNDINGS PROJECT # 8

STA - 82+00

0+00 = {^{STA-82+00}_{RA-101+50}} SOUND NEST AT 90° To R/L

DIST SOUND DIST SOUND

0+02 0.0 +4.0 1+70 13.1 -9.1 (4.0)

0+10 1.0 +3.0 13.5 -9.5

10:15 +20 1.2 +2.8 (4.0) 13.4 -9.4

(4.0) 1.3 +2.7 2+00 12.8 -8.8

1.5 +2.5 12.3 -8.5

50 1.5 +2.5 10:21 12.9 -8.9

1.5 +2.5 13.1 -9.1

2.0 +2.0 13.1 -9.1

6.3 -2.3 50 12.1 -8.1

10.1 -6.1 11.1 -7.1

1+00 12.0 -8.0 11.1 -7.1

11.3 -7.3 11.3 -7.3

12.1 -8.1 12.3 -8.3

11.8 -7.8 3+00 12.3 -8.3

10:18 11.8 -7.8 12.5 -8.5

50 12.6 -8.6 12.7 -8.7

1+60 13.1 -9.1 3+30 12.3 -8.3

7-17-47

STA - 82+00

7-17-47

(17)

DIST SOUND

DIST SOUND

Indexed PX

3+40 12.3 -8.3 5+40 13.0 -9.0

50 12.9 -8.9 50 13.8 -9.8

13.0 -9.0 13.8 -9.8

13.1 -9.1 (4.0) 13.3 -9.3

13.2 -9.2 13.1 -9.1

12.1 -9.1 13.8 -9.0

13.1 -9.1 6+00 13.0 -9.0

13.0 -9.0 13.0 -9.0

13.0 -9.0 13.0 -9.0

12.5 -8.5 12.5 -8.5

13.4 -9.4 12.1 -8.1

50 13.4 -9.4 50 12.2 -8.2

13.0 -9.0 12.0 -8.0

12.4 -8.4 12.4 -8.4

11.9 -7.9 12.3 -8.3

11.5 -7.5 12.0 -8.0

5+00 11.5 -7.5 7+00 12.0 -8.0

11.5 -7.5 12.0 -8.0

12.0 -8.0 10:27 12.0 -8.0

5+30 12.2 -8.2 7+30 11.5 -7.5

PX				7-17-47				7-19-47			
DIST		STA-82+00	DIST		50'		STA-81+00		PX (18)		
SOUND			SOUND		SOUND AT 90° WEST		To R/L.		106+68		
	12.0	-8.0	9+40	11.8	-7.8	0+00	0.0	1+80	12.5	-8.5	
7+50	13.9	-9.9	50	12.0	-8.0	0+05	0.0	1+80	12.5	-8.5	
(4.0)	14.0	-10.0	(4.0)	12.3	-8.3	0+10	0.4		12.4	-8.4	
	13.2	-9.2		12.5	-8.5	0+20	0.7		12.4	-8.4	
	12.7	-8.7		12.8	-8.8	0+30	0.7	2+00	13.3	-9.3	
	12.5	-8.5	<u>10:30</u>	12.8	-8.8	(4.0)	0.8	(4.0)	13.2	-9.2	
8+00	12.0	-8.0	10+00	12.6	-8.6		0.9		13.2	-9.2	
	11.8	-7.8		12.4	-8.4	50	1.0		13.4	-9.4	
	11.5	-7.5		12.4	-8.4		1.2		13.0	-9.0	
	11.5	-7.5		12.4	-8.4		1.4	50	12.2	-8.2	
	11.3	-7.3		12.5	-8.5		1.4		12.0	-8.0	
50	11.3	-7.3	50	12.7	-8.7		2.4		12.0	-8.0	
	10.5	-6.5		12.6	-8.6	1+00	6.3		12.1	-8.1	
	10.2	-6.2		12.9	-8.9		2.1		12.5	-8.5	
	10.2	-6.2		12.0	-8.0		10.5	-6.5	3+00	12.5	-8.5
	10.5	-6.5		12.0	-8.0		10.5	-6.5		13.2	-9.2
9+00	11.0	-7.0	11+00	13.2	-9.2	<u>10:53</u>	11.5	-7.5		13.0	-9.0
	11.4	-7.4				50	11.5	-7.5	<u>10:58</u>	13.0	-9.0
	11.5	-7.5					11.1	-7.1		12.0	-8.0
9+30	11.5	-7.5				1+70	11.1	-7.1	3+50	13.2	-9.2

7-11-47				7-11-47				7-11-47			
PX		STA - 81 + 00		STA - 81 + 00		STA - 81 + 00		STA - 81 + 00		PX ⁽²⁾	
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND
3+60	13.2 -9.2	5+60	13.0 -9.0	7+60	12.0 -8.0	9+60	12.7 -8.7				
(4.0)	13.2 -9.2	11+60	13.3 -9.3		11.5 -7.5		12.5 -8.5				
	12.7 -8.7		14.0 -10.0	(4.0)	12.0 -8.0	(4.0)	12.4 -8.4				
	12.7 -8.7	(4.0)	14.1 -10.1		12.1 -8.1		12.2 -8.2				
4+00	13.0 -9.0	6+00	14.7 -10.7	8+00	12.0 -8.0	10+00	12.1 -8.1				
	13.1 -9.1		15.0 -11.0		11.5 -7.5						
	13.4 -9.4		14.4 -10.4		11.5 -7.5						
	14.0 -10.0		13.7 -9.7		10.5 -6.5						
	13.8 -9.8		13.2 -9.2		10.7 -6.7						
50	13.2 -9.2	50	13.5 -9.5	50	10.7 -6.7						
	12.2 -8.2		13.4 -9.4		10.7 -6.7						
	11.5 -7.5		13.1 -9.1		11.0 -7.0						
	13.0 -9.0		12.4 -8.4		11.0 -7.0						
	13.5 -9.5		12.1 -8.1		11.0 -7.0						
5+00	13.1 -9.1	7+00	12.1 -8.1	9+00	11.6 -7.6						
	12.4 -8.4		11.8 -7.8		12.0 -8.0						
	12.0 -8.0		11.8 -7.8		12.2 -8.2						
	12.4 -8.4		12.2 -8.2		12.4 -8.4						
	12.5 -8.5		12.4 -8.4		12.5 -8.5						
5+50	13.0 -9.0	7+50	12.2 -8.2	9+50	12.8 -8.8						

7-19-47

PX

STA-80 +00

STA-80+00
17-102+48

SOUND WEST AT 90° TO R/L

DIST	SOUND	DIST	SOUND
0+00	0.0	+3.4	1+70 12.7 -9.3
1+00	1.6	+1.8	12.5 -9.1
<u>12:11</u> +10	5.4	-2.0	<u>3.4</u> 12.6 -9.2
<u>3.4</u>	8.5	-5.1	<u>3+00</u> 12.8 -9.4
	10.0	-6.6	12.8 -9.4
	9.8	-6.4	<u>12:15</u> 12.8 -9.4
50	10.2	-6.8	13.4 -10.0
	11.2	-7.8	13.2 -9.9
	11.2	-7.8	¹⁰⁰ 50 13.0 -9.6
	12.0	-8.6	12.2 -8.4
	12.0	-8.6	11.5 -8.1
2+00	12.0	-8.6	11.5 -8.1
	12.2	-8.8	11.5 -8.1
	12.4	-9.0	<u>4+00</u> 11.6 -8.2
	12.5	-9.1	11.5 -8.1
	12.5	-9.1	11.6 -8.2
50	12.5	-9.1	12.0 -8.6
<u>2</u> X+60	12.5	-9.1	<u>3+40</u> 12.3 -8.9

7-19-47

STA-80+00

DIST
+50

SOUND

DIST SOUND

PX

(20)

12.3	-8.9	<u>6</u> 5+50	11.5	-8.1
12.3	-8.9		11.5	-8.1
12.4	-9.0		11.5	-8.1
12.4	-9.0	<u>3.4</u>	11.5	-8.1
12.8	-9.4		11.7	-8.3
<u>5+00</u> 13.0	-9.6	<u>7</u> X+00	11.7	-8.3
12.8	-9.4	<u>12:20</u>	11.3	-7.9
12.8	-9.4		11.0	-7.6
12.5	-10.1		12.0	-8.6
13.7	-10.3		12.7	-9.3
50 13.2	-9.8	50	12.8	-9.4
13.0	-9.6		12.8	-9.4
12.1	-8.7		12.5	-9.1
11.5	-8.1		12.4	-9.0
11.6	-8.2		12.2	-8.8
<u>6</u> X+00 12.0	-8.6	<u>8</u> X+00	11.8	-8.4
12.2	-8.8		11.6	-8.2
12.4	-9.0		11.5	-8.1
11.8	-8.4		11.5	-8.1
<u>6</u> X+40 11.5	-8.1	<u>8</u> X+40	11.5	-8.1

TX		STA- 80+00		7-17-47	
DIST	SOUND	DIST	SOUND		
8	+50	11.8	-8.4		
		11.9	-8.5		
(3.4)		12.0	-8.6		
		12.0	-8.6		
		12.2	-8.8		
9	2+00	12.0	-8.6		
		12.3	-8.9		
		12.5	-9.1		
		12.5	-9.1		
		12.2	-8.8		
50		12.0	-8.6		
		11.5	-8.1		
		11.0	-7.6		
		10.7	-7.3		
12:35		10.7	-7.3		
10	2+00	10.6	-7.2		

		STA- 83+00		7-17-47	
0+00 = { ^{STA-87+00} _{R-102+98} }		SOUND	WEST AT	90° T.	R/L.
DIST	SOUND	DIST	SOUND		
0+70	0.0	+3.1			
0+80	0.4	+2.7	2+60	11.5	-8.4
0+90	0.5	+2.6		12.0	-8.9
1+00	0.5	+2.6	(3.1)	12.0	-8.9
12:55	0.0	+3.1		11.5	-8.4
(3.1)	+0.1	+3.2	3+00	11.5	-8.4
	0.0	+3.1	13:03	10.5	-7.4
	0.4	+2.7		12.0	-8.9
50	3.5	-0.4		11.5	-8.4
	4.0	-0.9		11.5	-8.4
	5.7	-2.6	50	11.5	-8.4
	4.7	-1.6		12.3	-9.2
13:00					
13:00					
2+00	7.5	-3.4		12.5	-9.4
	8.0	-4.9		12.0	-8.9
	9.5	-6.4	4+00	11.5	-8.4
	9.5	-6.4		11.7	-8.6
	10.1	-7.0		12.3	-9.2
2+50	11.4	-8.3	4+30	12.0	-8.9

PX		STA- 83+ 00		7-17-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
4+40	11.7 -8.6	6+40	10.5 -7.4		
<u>13:05</u> 50	11.7 -8.6	50	10.7 -7.6		
	11.5 -8.4		11.5 -8.4		
(3.1)	11.4 -8.3	(3.1)	11.5 -8.4		
	11.5 -8.4		11.5 -8.4		
	11.2 -8.1		11.5 -8.4		
5+00	11.5 -8.4	7+00	11.3 -8.2		
	11.5 -8.4		11.0 -7.9		
	11.5 -8.4		11.5 -8.4		
	11.3 -8.2		11.5 -8.4		
	11.0 -7.9		11.2 -8.1		
50	11.3 -8.2	50	11.2 -8.1		
	12.1 -9.0		11.2 -8.1		
	12.6 -9.3		11.6 -8.5		
	12.0 -8.9	<u>13:10</u>	12.0 -8.9		
	11.5 -8.4		12.0 -8.9		
6+00	11.5 -8.4	8+00	12.0 -8.9		
	11.0 -7.9		11.6 -8.5		
	10.7 -7.6		11.4 -8.3		
6+30	10.2 -7.1	8+30	11.4 -8.3		

PX		STA- 83+ 00		7-17-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
8+40	11.4 -8.3	10+40	10.5 -7.4		
50	11.3 -8.2	50	10.5 -7.4		
(3.1)	11.3 -8.2		10.8 -7.7		
	12.3 -9.2	<u>13:15</u>	12.3 -9.2		
	13.4 -10.3	(3.1)	12.0 -8.9		
	13.3 -10.2		11.7 -8.6		
9+00	13.3 -10.2	11+00	11.5 -8.4		
	13.3 -10.2		12.1 -9.0		
	13.2 -10.1		12.4 -9.3		
	13.1 -10.0		12.4 -9.3		
	12.5 -9.4		12.4 -9.3		
50	11.8 -8.7	50	12.2 -9.1		
	11.0 -7.9				
	10.0 -6.9				
	9.6 -6.5				
	9.8 -6.7				
10+00	9.8 -6.7				
	10.3 -7.2				
	10.5 -7.4				
10+30	10.5 -7.4				

7-17-47

PX

STA- 84 + 00

0700 = {^{STA-84+00}_{P-102+98}} SOUND WEST AT 90° To P/L

DIST SOUND DIST SOUND

0783 0.0 +2.9 2+60 10.2 -7.3

0790 2.4 +0.5 10.4 -7.5

1400 2.0 +0.9 10.7 -7.8

13:35 +10 2.0 +0.9 (2.9) 10.0 -7.1

(2.9) 1.7 +1.2 3+00 9.0 -6.1

1.1 +1.8 8.7 -5.8

11. +1.8 9.5 -6.6

50 11. +1.8 10.0 -7.1

1.1 +1.8 10.5 -7.6

5.6 -2.7 50 10.3 -7.4

9.8 -6.9 10.0 -7.1

10.2 -7.3 13:40 10.0 -7.1

2+00 10.0 -7.1 10.2 -7.3

10.2 -7.3 11.0 -8.1

11.0 -8.1 4+00 11.0 -8.1

11.0 -8.1 10.7 -7.8

10.5 -7.6 10.2 -7.3

2+50 10.0 -7.1 4+30 10.2 -7.3

STA- 84 + 00

7-17-47

(23)

DIST SOUND DIST SOUND PX

4+40 10.2 -7.3 6+40 1.0 +1.9

50 10.0 -7.1 6+45 9.0 +2.9

10.2 -7.3

(2.9) 10.5 -7.6 (2.9)

10.9 -8.0

10.7 -7.8

5+00 10.8 -7.9

10.8 -7.9

10.5 -7.6

10.5 -7.6

11.0 -8.1

50 11.1 -8.2

11.0 -8.1

11.0 -8.1

11.0 -8.1

8.0 -5.1

6+00 5.1 -2.2

5.5 -2.6

5.1 -2.2

6+30 3.7 -0.8

PX

X-SECTIONS PROJECT #8

STA-80+00

0+00 = {^{STA-80+00}_{R-106+68}} SECTION ARE RUN AT 90° TO R/L.

DIST	+	H. I.	-	ELEV	12' MARK ON RADIUS
B.M.	3.19	15.19	12.00	12.00	
E 320			12.3	2.8	
E 315			9.6	5.5	
E 305			6.0	9.1	
E 275			4.2	10.9	
E 205			2.4	12.7	
E 160			2.0	13.1	
E 100			3.1	12.0	
E 5.5			4.6	10.5	
0+00			5.1	10.0	
W 50			5.3	9.8	
W 120			5.9	9.2	
W 165			6.1	9.0	
W 240			5.9	9.2	
W 365			3.9	11.2	
W 405			3.5	11.6	
W 410			4.7	10.4	
W 430			10.3	4.8	
W 510			12.3	2.8	

PX

STA -79+00

0+00 = {^{STA-79+00}_{R-106+68}} SECTION ARE RUN AT 90° TO R/L.

DIST	+	H. I.	-	ELEV	12' MARK ON RADIUS
B.M.	5.28	17.28		12.00	
W 445				12.83	+2 12.7
W 380					13.1
W 355					8.8
W 350					6.6
W 300					5.4
W 240					3.1
W 185					6.3
W 95					6.1
W 95					5.5
W 90					5.1
E 100					5.7
E 150					5.4
E 195					5.4
E 245					5.0
E 270					6.5
E 280					3.4
E 295					12.6
E 310					15.7

Indexed

PX STA-78+00 7-17-47

0+00 = { STA-78+00
R-106+68 } SECTIONS AT 90° To R/L.

DIST.	+	H.I.	-	ELEV
B.M.	2.89	15.69		12.80
E 225			12.4	3.3
E 205			8.4	7.3
E 195			2.5	13.2
E 1107			3.4	12.3
E 42			4.5	11.2
0+00			4.4	11.3
W 50			4.2	11.5
W 110			5.5	10.2
W 142			8.6	7.1
W 165			9.9	5.8
W 225			11.6	4.1
W 275			12.3	3.4
W ³⁵⁰ 450 3			12.8	2.9

7-21-47

RT (25)

STA-86+00

0+00 = { STA-86+00
R-300' W R400' } SECTION EAST & WEST POOL

DIST.	+	H.I.	-	ELEV
B.M.	6.44	17.59		11.15
T.P.	2.70	16.69	3.60	13.99
E 42			3.5	13.2
E 18			4.5	12.2
0+00			5.2	11.5
W-8			5.2	11.5
W-12			2.1	14.6
W-18			5.5	11.2
W-34			10.2	6.5
T.P.	2.70		3.38	13.31

TOP HUB
STA-85+00
CAUSEWAY

STA-85+00

0+00 = { 300' W-28
STA-85+00
R-300' } SECTION EAST & WEST BOAT BASIN

DIST.	+	H.I.	-	ELEV
T.P.	2.70	16.01		13.31
E 50			3.2	12.8
E 20			4.6	11.4
0+00			5.0	11.0

STA- 85+00 CONT

W-16	16.01	5.2	10.8
W-22	9.5	1.3	14.7
W-27		5.3	10.7
W-35		10.1	5.9
T.P.		4.22	11.79

7-21-47

PX (24)

STA 83+00 0+00 = R106+68

STA	+	H.I	-	ELEV
TBM	2.11	14.11		12.0
W45			5.5	8.6
W98			6.5	7.6
W115			6.9	7.2
W130			6.9	7.2
W170			4.9	9.2
W300			3.2	10.9
W365			1.8	12.3
W423			2.5	11.6
W453			5.0	9.1
W490			11.4	2.7
W540			11.1	3.0
TP			1.26	12.85
	2.80	15.65		
TP			4.62	11.03

TOPOF
GR. 00 Radi

TOPHUB
30 IN STAGG
R103+68

Df

7-21-47

STA 84+00 0+00 = R103+68

Dy

7-21-47

STA 85+00 0+00 = R103+68 (22)

STA	+	H.I	-	ELEV.
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TBM	4.48	17.33		12.85
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O			4.9	12.4
---	--	--	-----	------

E 65			5.6	11.7
------	--	--	-----	------

E 122			6.9	10.4
-------	--	--	-----	------

E 170			8.1	9.2
-------	--	--	-----	-----

W 32			4.6	12.7
------	--	--	-----	------

W 78			5.5	11.8
------	--	--	-----	------

W 85			5.2	12.1
------	--	--	-----	------

W 128			10.0	7.3
-------	--	--	------	-----

W 175			13.5	3.8
-------	--	--	------	-----

W 185			14.3	3.0
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STA	+	H.I	-	ELEV
-----	---	-----	---	------

TBM	4.45	17.30		12.85
-----	------	-------	--	-------

W 110			12.1	5.2
-------	--	--	------	-----

W 62			8.1	9.2
------	--	--	-----	-----

W 35			5.0	12.3
------	--	--	-----	------

W 17			4.8	12.5
------	--	--	-----	------

O			5.0	12.3
---	--	--	-----	------

E 20			4.5	12.8
------	--	--	-----	------

E 80			4.4	12.9
------	--	--	-----	------

E 130			6.5	10.8
-------	--	--	-----	------

E 225			8.2	9.1
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E 282			8.5	8.6
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E 290			5.5	11.8
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E 295			8.8	8.5
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E 300			11.2	6.1
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7-21-47
PX STA 86+00 0+00 = R103+68

STA	+	H.I	-	ELEV
T.B.M.	3.14	15.99		12.85
E304			9.5	5.5
E295			4.9	10.1
E290			0.5	15.5
E282			4.4	10.6
E270			7.0	9.0
E198			6.8	8.2
E133			4.9	10.1
E75			3.7	11.3
E38			2.7	12.3
0			5.0	11.0
W50			9.9	5.1
W55			12.0	4.0
TP			4.00	11.99

7-21-47
PX (30) STA 87+00 - 0+00 = R103+68

STA	+	H.I	-	ELEV.
TP	2.54	14.53		11.99
E90			5.2	9.3
E36			4.1	10.4
0			5.0	9.5
W25			6.3	8.2
W35			10.8	3.7

PF 7-21-47
 STA 88+00 - 0+00 = R103+68

STA	+ H.I	-	ELEV.
TP.	2.42	14.41	11.99
0		5.3	9.1
E 50		5.3	9.1
W 8		2.2	12.2
W 32		2.6	11.8
W 37		4.5	9.9
W 50		9.0	5.4

7-21-47
 STA 89+00 - 0+00 = R103+68

PF (29)

STA	+ H.I	-	ELEV.
T.B.M.	2.10	13.13	11.03 (SEE PG. 26)
0		5.2	7.9
E 10		5.7	7.4
E 30		4.1	9.0
E 50		0.5	12.6
E 72		2.1	11.0
E 110		2.5	10.6
E 160		3.0	10.1
E 165		4.0	9.1
E 197		4.9	8.2
E 200		5.0	8.1
W 15		4.5	8.6
W 35		3.8	9.3
W 55		2.3	10.8
W 65		1.8	11.3
W 80		4.5	8.6
W 92		3.6	9.5
W 102		3.6	9.5
W 110		7.5	5.6

PX 7-21-47
 STA 90+00 - 0+00 = R103+68

STA	+	H.I.	-	ELEV.
T.B.M.	2.82	13.75		11.03
W462			8.0	5.7
W380			7.6	6.1
W310			3.5	10.2
W225			2.2	11.5
W130			1.6	12.1
W92			0.5	13.2
W15			4.6	9.1
0			5.1	8.6
E167			4.6	9.1
E285			3.2	10.5
E390			2.2	11.5
E525			4.5	9.2
E655			4.4	9.3

STA 90+00 - 0+00 = CAUSEWAY B/H

STA	+	H.I.	-	ELEV.
T.B.M.	5.0	16.15		11.15
W975			5.0	11.1
W700			6.7	9.4

TOP HUB
 CAUSEWAY
 B/H

7-21-47 0+00 = CAUSEWAY B/H (30)
 STA 90+00 - CONTD WEST PX

STA	+	H.I.	-	ELEV.
			16.1	
W565			5.2	10.9
W485			5.0	11.1
W390			6.0	10.1
W205			5.7	10.4
W105			4.8	11.3
W95			4.2	11.9
W45			5.7	10.4
W14			5.8	10.3
0			5.0	11.1

7-21-47
 PP STA 91+00-0+00 = CAUSEWAY B/L

STA	+	H.I.	-	ELEV.
T.B.M.	4.80	15.95		11.15
0			5.0	10.9
W 14			5.0	10.9
W 48			4.6	11.3
W 98			3.4	12.5
W 145			3.4	12.5
W 210			4.1	11.8
W 300			4.9	11.0
W 375			3.9	12.0
W 425			2.5	13.4
W 480			1.5	14.4
W 545			1.9	14.0
W 635			3.3	12.6
W 720			5.1	10.8
W 795			5.8	10.1
W 865			3.0	12.9

CAUSEWAY

STA. 90

7-21-47

STA 92+00 0+00 = CAUSEWAY B/L (31)

STA	+	H.I.	-	ELEV.
B.M.	5.56	16.56		11.00
W-870			4.6	12.0
W-770			5.0	11.6
W-750			5.1	11.5
W-700			3.8	12.8
W-620			2.8	13.8
W-560			2.4	14.2
W-500			2.0	14.6
W-450			0.6	16.00
W-380			1.0	15.6
W-340			1.9	14.7
W-290			2.7	13.9
W-240			5.0	11.1
W-206			4.0	12.1
W-168			3.1	13.5
W-146			3.4	13.2
W-110			4.2	12.4
W-72			4.5	12.1
W-54			5.4	11.2
W-27			5.6	11.0
W-7			3.7	10.9
0+00			5.6	11.0

STA-92+00
 CAUSEWAY B/L

7-21-47

PX STA- 89+00 0+00= CAUSEWAY 7/4

STA-	+	H.I.	-	ELEV
B.M.	5.55	16.70		11.15
0+00			5.5	11.2
W-10			5.8	10.9
W-50			5.1	11.6
W-90			4.1	12.6
W-100			4.1	12.6
W-160			5.6	11.1
W-220			6.4	10.3
W-540			6.4	10.3

7-21-47

PX STA- 88+00 0+00= CAUSEWAY 3/4

STA-	+	H.I.	-	ELEV
B.M.	5.58	16.82		11.24
W-490			7.5	9.3
W-400			7.2	9.6
W-310			6.5	10.3
W-225			5.7	11.1
W-165			4.2	12.6
W-93			4.5	12.3

7-21-47

STA- 88+00

STA	+	H.I.	-	ELEV
W-40			16.82	5.2
0+00			5.6	11.2

PX (32)

7-23-47

103468
1700W
103268

(33)

SOUNDINGS on WEST SLOPES PROJECT # 8

STA - 79 + 00

SOUND WEST STA - 80 + 00 0 + 00 = { STA - 80 + 00
R - 103 + 08 }0 + 00 = { STA - 79 + 00
R - 103 + 68 } SOUND WEST

DIST	SOUND	SLOPE	DIST	SOUND	DIST	SOUND	DIST	SOUND			
0 + 8	0.6	+2.3	1 + 90	11.4	-9.1	0 + 00	0.0	+2.4	1 + 80	10.8	-8.4
10:20 +20	1.4	+0.9	2 + 00	11.5	-9.2	110	1.0	+1.4		11.0	-8.6
(2.3)	2.4	-0.1		11.6	-9.3	1031 +20	1.5	+0.9	2 + 00	11.4	-9.0
	3.5	-1.2	(2.3)	11.5	-9.2	(2.4)	1.5	+0.9		11.5	-9.1
50	4.0	-1.7		11.7	-9.4		3.2	-0.8	(2.4)	11.5	-9.1
	4.7	-2.4		11.6	-9.3	50	3.7	-1.3	10:35	11.0	-8.6
	5.5	-3.2	50	11.5	-9.2		4.5	-2.1		11.6	-9.2
	7.0	-4.7		11.5	-9.2		6.5	-4.1	50	12.0	-9.6
	8.2	-5.9		11.8	-9.5		8.7	-6.3		11.8	-9.4
1 + 00	8.4	-6.1		12.0	-9.7		10.0	-7.6		11.8	-9.4
	8.6	-6.3		12.0	-9.7	1 + 00	10.6	-8.2		12.0	-9.6
	10.1	-7.8	3 + 00	11.8	-9.5		11.8	-9.4		12.2	-9.8
	10.1	-7.8	10:25				11.8	-9.4	3 + 00	12.5	-10.1
	11.2	-8.9					11.5	-9.1			
50	11.0	-8.7					11.2	-8.8			
	11.0	-8.7				50	11.0	-8.6			
10:23	11.2	-8.9					11.0	-8.6			
1 + 80	11.2	-8.9				1 + 70	10.8	-8.4			

Indley rd

7-23-47

STA- 78+00

0+00 = {^{STA-78+00}_{R-10+08}} : SOUND WEST

DIST	SOUND	DIST	SOUND
0+00 =	0.0 +2.5	1+80	11.5 -9.0
+10	0.5 +2.0	^{10:48}	11.2 -8.7
^{10:45} +20	1.4 +1.1	2+00	11.1 -8.6
(2.5)	1.4 +1.1	(2.5)	11.1 -8.6
	2.8 -0.3		11.1 -8.6
50	3.0 -0.5		11.0 -8.5
	3.4 -0.9		11.1 -8.6
	3.8 -1.3	50	11.2 -8.7
	4.2 -1.7		11.6 -9.1
	5.0 -2.5		11.7 -9.2
1+00	5.3 -2.8		11.7 -9.2
	5.5 -3.0		11.8 -9.3
	6.4 -3.9	3+00	11.6 -9.1
	8.4 -5.9		
	8.8 -6.3		
^{10:50}	9.5 -7.0		
	11.8 -9.3		
1+70	11.2 -8.7		

7-23-47

(34)

STA- 77+00

0+00 = Pt. 170' E of STA-77+00 DUNE 2/4 : SOUND EAST

DIST	SOUND	DIST	SOUND
7+00	11.5 -8.5	8+80	11.4 -8.4
^{11:23} +10	14.0 -11.0		11.8 -8.8
	13.5 -10.5	9+00	11.4 -8.4
(3.0)	13.7 -10.7	(3.0)	12.0 -9.0
	12.2 -9.2		11.8 -8.8
50	11.5 -8.5		12.0 -9.0
	11.7 -8.7		12.0 -9.0
	12.1 -9.1	50	11.7 -8.7
	11.2 -8.2		11.4 -8.4
	11.1 -8.1		11.0 -8.0
8+00	11.3 -8.3		10.5 -7.5
	11.5 -8.5		10.0 -7.0
^{11:25}	11.1 -8.1	10+00	10.0 -7.0
	11.2 -8.2	^{11:28}	10.0 -7.0
	12.0 -9.0		9.4 -6.4
50	12.5 -9.5		8.3 -5.3
	11.4 -8.4		7.9 -4.9
8+70	11.6 -8.6	10+50	9.0 -6.0

STA-77+00			P.X. - FINAL -			X-SECTIONS - PROJECT # 7		
DIST	FOUND		DIST	FOUND				
10+60	10.0	-7.0	12+60	12.1	-9.0	STA-54+00	0+00	{ STA-54+00 A-111+00 }
	9.2	-6.2		12.1	-9.0	STA- +	H.I.	ELEV
	9.0	-6.0	'	12.6	-9.5	T.B.M.	4.48	19.34
	8.3	-5.3		12.7	-9.6	0+00		5.1 14.2
11+00	7.0	-4.0	13+00	13.1	-10.0	W-55		5.7 13.6
	6.2	-3.2	(3.1)	14.0	-10.9	W-105		5.5 13.8
	5.7	-2.7		14.1	-11.0	W-160		5.7 13.6
(3.0)	5.7	-2.7		14.0	-10.9	W-215		5.6 13.7
(3.1)	5.8	-3.7		13.0	-9.9	W-275		6.0 13.3
50	4.0	-0.9	50	12.8	-9.7	W-285		9.5 9.8
	4.0	-0.9		12.1	-9.0	W-285		12.5 6.8
	5.8	-2.7		12.1	-9.0	W-350		13.0 6.3
	9.0	-5.9		12.1	-9.0			
	10.1	-7.0		12.1	-9.0			
12+00	12.0	-8.9	14+00	12.3	-9.2			
	13.0	-9.9		12.4	-9.3			
	12.7	-9.6		12.4	-9.3			
11:30				12.2	-9.1			
11:30	12.0	-8.9		12.2	-9.1			
	11.5	-8.4	11:34	12.5	-9.4			
12+50	12.0	-8.9	14+50	12.7	-9.6			

TOP HUB
STA-55+00

7-23-47

P.X.

STA. 55+00 0+00 = { STA-55+00
R-111+00 }

STA-	+	H.I.	-	ELEV	TOP HUB STA-56+00
T.B.M.	4.71	18.93		14.22	
W-482			12.4	6.5	
W-405			12.2	6.7	
W-396			9.4	9.5	
W-385			5.8	13.1	
W-340			5.0	13.9	
W-275			5.3	13.6	
W-225			5.9	13.0	
W-165			5.7	13.2	
W-120			5.4	13.5	
W-60			5.6	13.3	
0+00			5.1	13.8	

7-23-47

(36)

P.X.

STA- 56+00 0+00 = { STA-56+00
R-111+00 }

STA-	+	H.I.	-	ELEV	TOP HUB STA-57+00
T.B.M.	4.80	18.17		13.37	
0+00				5.0	13.2
W-45				5.4	12.8
W-105				5.4	12.8
W-130				5.3	12.9
W-260				4.8	13.4
W-245				5.0	13.2
W-225				4.9	13.3
W-435				5.0	13.2
W-505				8.1	10.1
W-513				11.7	6.5
W-603				11.3	6.9
W-725				11.5	6.7

PROJECT # 7 7-23-47

PX. STA 57+00 $0+00 = \left\{ \begin{array}{l} \text{STA-57+00} \\ \text{R-111700} \end{array} \right\}$

STA	+	H.I.	-	ELEV	TOP HUB STA 57+00
T.B.M.	4.82	17.61		12.79	
W ¹⁰³⁵ / ₈₈₀ ^{x2}			11.5	6.1	
W 725			10.4	7.2	
W-625			10.6	7.0	
W-615			7.4	10.2	
W-605			4.9	12.7	
W-580			5.0	12.6	
W-540			5.0	12.6	
W-490			5.2	12.4	
W-445			4.9	12.7	
W-395			4.6	13.0	
W-360			4.7	12.9	
W-320			4.6	13.0	
W-265			4.5	13.1	
W-210			4.8	12.8	
W-155			4.9	12.7	
W-110			4.9	12.7	
W-50			4.7	12.3	
0+00			5.0	12.6	

426 7-23-47 (37)

PX. STA-66+00 $0+00 = \left\{ \begin{array}{l} \text{STA-66+00} \\ \text{R-111700} \end{array} \right\}$

STA	+	H.I.	-	ELEV	TOP HUB STA-66+00
T.B.M.	4.28	14.80		10.52	
0+00				5.0	9.8
W-40				4.7	10.1
W-95				4.9	9.9
W-140				4.2	10.6
W-185				3.9	10.9
W-265				4.5	10.3
W-312				4.6	10.2
W-332				5.3	9.5
W-355				6.0	8.8
W-377				7.2	7.6
W-382				8.1	6.7
W-412				7.5	5.3

7-28-47

BARRAGAN
SHIPPY
STANLEY

10-1-47

(39)

ORIGINAL SOUNDINGS OF FILL AREA

PROJECT 3-1(NOTE - 0+00 END OF PREVIOUS
SECTION OF STA-100+00 FROM
DE. AREA 13/4)PX
Index

STA- 100+00 W

DIST	+	H.I.	-	ELEV
T.B.M.	1.81	15.09		13.18
N-34			14.5	+0.6
N-24			14.5	+0.6
N-19			14.3	+0.8
N-14			10.7	4.4
N-06			5.3	9.8
1/4 0+00			4.8	10.3
S-04			4.8	10.3
S-09			6.5	8.6
S-14			10.7	4.4
S-19			14.9	+0.2
S-24			17.5	-2.4
S-34			22.0	-6.9

+002 Ft.

SOUTH OF STA^W 100+00 ON DEANZA R/L: SOUND SOUTH

DIST	+	STA- H.I.	-	ELEV
T.B.M.	0.57	13.75		13.18
N-33			13.7	+0.1
N-23			12.7	+1.1
N-18			13.1	+0.7
N-13			9.5	4.3
N-10			7.7	6.1
N-06			5.8	8.0
1/4 0+00			5.1	8.7
S-03			5.3	8.5
S-10			9.6	4.2
S-15			12.8	+1.0
S-20			16.7	-2.9
S-30			21.1	-7.3
1/4 -1+41			6.2	7.6
1/4 -1+44			9.5	4.3
1/4 -1+49			12.8	1.0
1/4 -1+54			17.3	-3.5
1/4 -1+64			17.8	-4.0

DIST	SOUND		DIST	SOUND		
0+00	0.9	+4.5	1+60	2.0	+3.4	
	1.0	+4.4		2.0	—	
1+33	1.3	+4.1	(5.4)	2.0	—	
(5.4)	1.3	—		2.0	—	
	1.4	+4.0	2+00	2.0	—	
50	1.4	—		2.0	—	
	1.3	+4.1		2.0	—	
	1.4	+4.0		2.0	—	
	1.5	+3.9		2.1	+3.3	
	1.7	+3.7	50	2.0	+3.4	
1+00	1.7	—		2.0	—	
	1.8	+3.6		2.1	+3.3	
	1.9	+3.5		2.1	—	
	1.9	—		1.9	+3.5	
	1.8	+3.6	3+00	1.9	—	
1+50	2.0	+3.4	3+10	1.8	+3.6	

W. 100+00		10-1-47		W-100+00		10-1-47		(40)			
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND				
3+20	1.7	+3.7	5+20	1.9	+3.5	7+20	2.2	+3.3	9+20	2.1	+3.1
	1.7	—	09:45	1.9	—	(5.5)	2.2	—	(5.5)	2.1	—
09:39	1.7	—		1.9	—		2.2	—		2.5	+3.0
" 50	1.7	—	50	1.9	—	50	2.2	—	50	2.5	—
(5.4)	1.7	—		1.9	—		2.2	—		2.5	—
	1.7	—	(5.4)	1.9	—		2.3	+3.2		2.5	—
	1.9	+3.5	09:48	2.0	+3.4		2.3	—		2.5	—
	1.9	—	(5.5)	2.0	+3.5		2.3	—		2.5	—
7+00	1.9	—	6+00	2.0	—	8+00	2.3	—	10+00	2.5	—
	1.9	—		2.2	+3.3		2.3	—		2.5	—
	1.9	—		2.0	+3.5		2.3	—		2.5	—
	1.9	—		2.0	—		2.3	—		2.5	—
	1.9	—		2.0	—		2.3	—		2.5	—
50	1.9	—	50	2.0	—	50	2.3	—	50	2.5	—
	1.9	—		2.1	+3.4		2.3	—		2.5	—
	1.8	+3.6		2.1	—		2.3	—		2.5	—
	1.8	—		2.1	—		2.3	—		2.5	—
	1.8	—		2.1	—		2.3	—		2.5	—
5+00	1.8	—	7+00	2.1	—	9+00	2.3	—	11+00	2.5	—
5+10	1.9	+3.5	7+10	2.2	+3.3	9+10	2.1	+3.1	11+10	2.5	—

		W-100+00		10-1-47		W-100+00		10-1-47		(31)	
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	PX	
11+20	2.5	+3.0	13+20	2.8	+2.7	15+20	2.7	+2.9	17+20	2.9	+2.7
(5.5)	2.5	—	(5.5)	2.8	—	(5.6)	2.7	—	(5.6)	3.0	+2.6
09:53	2.5	—		2.8	—		2.7	—		3.0	—
50	2.6	+2.9	50	2.8	—	50	2.7	—	50	3.0	—
	2.6	—		2.7	+2.8		2.7	—	09:58	3.0	—
	2.6	—		2.7	—		2.7	—		3.0	—
	2.6	—		2.7	—		2.6	+3.0		3.1	+2.5
	2.6	—		2.7	—		2.6	—		3.1	—
12+00	2.6	—	14+00	2.7	—	16+00	2.6	—	18+00	3.1	—
	2.6	—		2.7	—		2.6	—		3.2	+2.4
	2.6	—	(5.5)	2.7	—		2.6	—		3.2	—
	2.7	+2.8	09:55	2.7	—		2.7	+2.9		3.2	—
	2.7	—	(5.6)	2.6	+3.0		2.8	+2.8		3.2	—
50	2.8	+2.7	50	2.6	—	50	2.8	—	50	3.1	+2.5
	2.8	—		2.6	—		2.8	—		3.1	—
	2.8	—		2.6	—		2.8	—		3.1	—
	2.8	—		2.6	—		2.8	—		3.3	+2.3
	2.8	—		2.6	—		2.9	+2.7		3.5	+2.1
13+00	2.8	—	15+00	2.6	—	17+00	3.1	+2.5	19+00	3.5	—
13+10	2.8	—	15+10	2.7	+2.9	17+10	3.0	+2.6	19+10	3.3	+2.3

DIST		SOUND		DIST		SOUND	
19720		2.7	+2.9				
(5.6)		2.9	+3.2				
		2.5	+3.1				
50		2.5	—				
		2.5	—				
		2.8	+2.8				
		2.9	+2.7				
(5.6)		2.9	—				
10:01		2.9	—				
20+00		2.9	—				
11:40		2.8	+2.2				
(5.0)		2.8	—				
		3.0	+2.0				
		3.0	—				
50		3.0	—				
		3.1	+1.9				
		3.2	+1.8				
		3.2	+1.3				
		3.5	+1.5				
21+00		3.5	—				

DIST		SOUND		DIST		SOUND	
1780		0.7	+4.9	1780	1.6	+4.0	
		1.0	+4.6	(5.6)	1.6	—	
10:22		1.4	+4.2	2+00	1.6	—	
(5.6)		1.5	+4.1	10:27	1.6	—	
		1.5	—		1.7	+3.9	
50		1.5	—		1.8	+3.8	
		1.5	—		2.0	+3.6	
		1.6	+4.0	50	2.0	—	
		1.6	—		2.0	—	
		1.4	+4.2		2.5	+3.1	
1780		1.5	+4.1		2.0	+3.6	
		1.4	+4.2		2.0	—	
		1.4	—	3+00	2.0	—	
		1.5	+4.1		2.0	—	
		1.5	—		2.1	+3.5	
50		1.5	—	10:30	2.1	—	
		1.5	—		2.0	+3.6	
1770		1.6	+4.0	3+50	2.0	—	

W-100+00 10-1-97
 W-101+00 10-1-97 (92)
 (NOTE: END OF PREVIOUS SECTION OF STA. W-101+00 FROM DE-ANZA B/L.)
 SOUTH OF STA. 101+00 DE-ANZA B/L. SOUND SOUTH

		101+00		10-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
3+60	2.0 +3.6	5+60	1.7 +3.9		
(5.6)	1.9 +3.7	(5.6)	1.8 +3.8		
	1.8 +3.8		1.8		
	2.0 +3.6		1.6 +4.0		
4+00	2.0	6+00	1.6		
	2.0		1.8 +3.8		
	2.0	10:35	1.6 +4.0		
	1.9 +3.7		1.5 +4.1		
	1.9		1.7 +3.9		
50	1.9	50	1.6 +4.0		
	1.9		1.5 +4.1		
	1.9		1.5		
10:33	1.9		1.6 +4.0		
	1.9		1.6		
5+00	1.9	7+00	1.7 +3.7		
	2.0 +3.6		2.0 +3.6		
	2.2 +3.4		2.0		
	2.6 +3.0		1.9 +3.7		
	2.6		1.8 +3.8		
5+50	2.0 +3.6	7+50	1.9 +3.7		
	3.0				

		101+00		10-1-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
7+60	2.0 +3.6	9+60	2.1 +3.5		
10:28	1.6 +4.0	(5.6)	2.1		
(5.6)	1.6		2.1		
	1.7 +3.9		2.1		
8+00	1.5 +4.1	10+00	2.1		
	2.0 +3.6		1.8 +3.8		
	1.7 +3.9		1.8		
	1.6 +4.0		2.1 +3.5		
	1.5 +4.1		2.0 +3.6		
50	1.5	50	2.0		
	1.5		2.0		
	1.5	10:43	1.8 +3.8		
	2.0 +3.6		1.7 +3.9		
(5.6)	1.6 +4.0		1.7		
9+00	1.5 +4.1	11+00	2.0 +3.6		
10:40	1.9 +3.7		2.1 +3.5		
(5.6)	1.7 +3.9		2.0 +3.6		
	1.5 +4.1		1.7 +3.9		
	1.9 +3.7		1.7		
9+50	2.1 +3.5	11+50	2.3 +3.3		

W-101+00 10-1-47

DIST	SOUND		DIST	SOUND	
11+60	2.3	+3.3	13+60	1.8	+3.7
(5.6)	2.3	—		1.9	+3.6
<u>10:45</u>	2.2	+3.4	(5.5)	1.9	—
(5.5)	2.1	+3.4	<u>10:48</u>	1.8	+3.7
12+00	2.0	+3.5	<u>14+00</u>	1.8	—
	2.0	—	<u>11:15</u>	1.6	+3.7
	2.0	—	(5.3)	1.6	—
	2.0	—		1.5	+3.8
	2.1	+3.4		1.7	+3.9
50	1.9	+3.6	50	1.9	—
	1.9	—		1.5	+3.7
	2.2	+3.3		1.5	—
	2.1	+3.4	<u>11:18</u>	1.5	—
	2.0	+3.5		1.5	—
13+00	2.0	—	15+00	1.6	+3.7
	2.0	—		1.7	+3.6
	2.2	+3.3		1.7	—
	2.0	+3.5		1.7	—
	1.9	+3.6		1.7	—
13+50	1.9	—	15+50	1.7	—

W-101+00 10-1-47 (7A)

DIST	SOUND		DIST	SOUND	
15+60	1.7	+3.6	17+60	2.8	+2.5
(5.3)	1.8	+3.5	(5.3)	2.8	—
	1.9	+3.4		2.8	—
	1.8	+3.5		2.8	—
16+00	1.8	—	18+00	3.0	+2.3
	1.8	—		3.1	+2.2
	1.8	—	<u>11:23</u>	3.2	+2.1
	2.3	+3.0		3.2	—
	2.5	+2.8		2.5	+2.8
50	2.7	+2.6	50	2.0	+3.3
	2.7	—		1.9	+3.4
	2.8	+2.5		1.8	+3.5
	2.9	+2.4		2.0	+3.3
	3.0	+2.3		2.0	—
17+00	3.0	—	19+00	2.0	—
	3.0	—		2.0	—
	3.0	—	(5.3)	2.0	—
	2.9	+2.4	(5.2)	2.0	+3.2
	2.9	—	<u>11:25</u>	2.0	—
17+50	2.8	+2.5	19+50	2.3	+2.9

DIST	SOUND	W-101400	DIST	SOUND
19460	2.6	+2.6		
(5.2)	2.6	—		
	2.8	+2.4		
	3.0	+2.2		
20400	2.8	+2.4		
	2.9	+2.3		
	3.0	+2.2		
	3.0	—		
	3.0	—		
50	3.1	+2.1		
	3.4	+1.8		
	3.7	—		
	3.5	+1.7		
11:23	3.7	+1.5		
21400	3.8	+1.4		

10-1-47

BARRACAN
SHERRY
STANLEY10-1-47
CLEAR
CALM
COOL

(75)

ORIGINAL SOUNDINGS OF PROPOSED

EAST BAY CHANNEL

SECTION "D"

PROJECT 3-1

Indep

10-1-47

73+00 "D"

0+00 STA 73+00 ON 100' OFFSET LINE (D/L): SOUND SOUND AT 30° TO 3/4

	DIST	SOUND		DIST	SOUND
	0+00	2.3	+1.9	1+80	3.1 +1.1
12:45		2.2	+2.0	(4.2)	3.5 +0.7 (4.2)
	(4.2)	2.2	—	2+00	3.6 +0.6 4+00
		2.2	—		3.6 —
		2.4	+1.8		3.7 +0.5
50	2.5	+1.7			3.8 +0.4
	2.5	—			3.8 —
	2.6	+1.6	50	3.8	— 50
	2.6	—		3.9	+0.3
	2.7	+1.5		4.0	+0.2
1+00	2.7	—		4.0	—
	2.7	—		4.0	—
	2.8	+1.4	3+00	4.0	— 5+00
	2.8	—		4.0	—
	2.9	+1.3		4.1	+0.1
50	3.0	+1.2		4.1	—
	3.0	—		4.1	—
1+70	3.0	—	3+50	4.1	—

73+00 "D"

10-1-47

(96)

DIST	SOUND	DIST	SOUND
3+60	4.2	0.0	—
	4.2	—	—
	4.2	—	—
	4.2	—	—
	4.3	-0.1	—
	4.3	—	—
	4.3	—	—
	4.3	—	—
50	4.3	—	—
	4.3	—	—
	4.5	-0.3	—
	4.7	-0.5	—
	4.7	—	—
5+00	4.6	-0.4	—
12:50			

PX

10-1-47

74+00 "D"

DIST SOUND

74+00 "D" 10-1-47

(77)

DIST SOUND

0+00 = STA 74+00 ON 100' OFFSET LINE (B/L); SOUND SOUTH AT 30° 7.3/4

3+60

4.1

0.0

PX

DIST SOUND DIST SOUND

4.1

0+00

1.9

+2.2

1+80

3.2

+0.9

4.1

1.9

3.2

12:54

2.0

+2.1

2+00

3.9

+0.7

4+00

4.1

(4.1)

2.1

+2.0

(4.1)

3.9

(4.1)

4.9

-0.3

2.2

+1.9

3.3

+0.5

4.4

50

2.2

4.0

+0.1

4.4

2.3

+1.8

3.7

+0.4

4.4

2.3

50

3.7

50

4.4

2.7

+1.4

3.8

+0.3

4.4

2.9

+1.2

3.8

4.5

-0.4

1+00

2.8

+1.3

3.8

4.6

-0.5

2.8

3.8

4.6

2.9

+1.2

3+00

3.9

+0.2

5+00

4.8

-0.7

2.9

4.0

+0.1

12:58

2.9

4.0

50

3.0

+1.1

4.0

3.4

+0.7

4.1

0.0

1+20

3.4

3+50

4.1

75+00 "D"

10-1-17

DIST SOUND

75+00 "D" 10-1-17

(78)

DIST SOUND

PX
 0+00-500 75+00 ON 100' OFFSET LINE (8/4) SOUND SOUTH AT 3+70

3+60

4.0

0.0

DIST SOUND

DIST SOUND

4.0

—

PX

0+00 1.7 +2.3 1+80 3.1 +0.9

4.0

—

13:04 1.7 — (4.0) 3.1 — (4.0)

(4.0)

4.0

—

(4.0) 1.7 — 2+00 3.1 — 4+00

4+00

4.1

-0.1

1.8 +2.2 3.2 +0.8

4.8

-0.8

1.8 — 3.2 —

5.0

-1.0

50 1.8 — 3.3 +0.7

4.6

-0.6

1.9 +2.1 3.3 —

4.6

—

2.1 +1.9 50 3.4 +0.6 50

50

4.6

—

2.2 +1.8 3.5 +0.5

4.6

—

2.4 +1.6 3.6 +0.4

4.6

—

1+00 2.6 +1.4 3.6 —

4.8

-0.8

2.8 +1.2 3.8 +0.2

4.8

—

2.9 +1.1 3+00 3.9 +0.1 5+00

5+00

4.8

—

2.9 — 3.9 — 13:07

13:07

—

3.0 +1.0 4.0 0.0

—

—

50 3.0 — 4.0 —

—

—

3.0 — 4.0 —

—

—

1+70 3.1 +0.9 3+50 4.0

3+50

4.0

—

10-1-17

79+00 "D"

10-1-17

(50)

79+00 "D"

DIST SOUND

DIST SOUND

4+00 = STA 79+00 ON 100' OFFSET LINE (BL): SOUND SOUTH AT 90° T. H.

3+60 7.0 -0.5

DIST SOUND DIST SOUND

0+00 2.3 +1.2 1+80 2.9 +0.6

10:35 2.3 — 3.0 +0.5

2.3 — 2+00 3.0 —

(3.5) 2.3 — (3.5) 3.1 +0.1

2.4 +1.1 3.5 0.0

50 2.8 +0.7 3.5 —

2.7 +0.8 3.5 —

2.1 +1.4 50 3.8 -0.3

2.1 — 4.0 -0.5

2.2 +1.3 4.0 —

1+00 2.2 — 3.7 -0.2

2.3 +1.2 3.7 —

2.3 — 3+00 3.6 -0.1

2.3 — 3.6 —

2.3 — 3.7 -0.2

50 2.3 — 3.8 -0.3

2.2 +1.3 3.9 -0.4

1+70 2.5 +1.0 3+50 3.9 —

79+00 "D"

10-1-17

(50)

DIST SOUND

DIST SOUND

7.0 —

7.0 —

7.1 -0.6

7.1 —

7+00 7.2 -0.7

(3.5) 7.2 —

7.2 —

7.5 -1.0

7.5 —

50 7.7 -1.2

7.7 —

7.7 —

7.6 -1.1

7.6 —

5+00 7.7 -1.2

7.7 —

7.7 -0.2

3.8 -0.3

3.9 -0.4

3.9 —

10-1-97

78+00

"D"

10-1-97

(51)

78+00 "D"

DIST SOUND

DIST SOUND

0+00 STA 78+00 ON 100' OFFSET LINE (3/4) SOUND SOUTH AT 90°

DIST	SOUND	DIST	SOUND
0+00	2.2	+1.2	1+80 3.0
13.95	2.0	+1.4	3.1
	1.8	+1.6	2+00 3.2
(3.9)	1.7	+1.7	(3.9) 3.3
	1.6	+1.8	3.3
50	1.8	+1.6	3.2
	1.7	+1.7	3.2
	1.7	—	50 3.3
	1.9	+1.5	3.4
	1.9	—	3.5
1+00	1.9	—	3.5
	2.0	+1.4	3.5
	2.3	+1.1	3+00 3.5
	2.6	+0.8	3.6
	2.7	+0.7	3.8
50	2.9	+0.5	4.0
	2.9	—	4.0
1+70	2.9	—	3+50 4.0

DIST	SOUND
3+60	4.0
	4.0
	4.0
	4.1
4+00	4.2
	4.2
	4.3
	4.3
50	4.3
	4.4
	4.5
	4.6
5+00	4.6
1150	

DIST	SOUND
	-0.6
	—
	—
	-1.0
	-0.8
	—
	—
	-0.9
	—
	-1.0
	-1.4
	-1.2
	—
	—

10-1-17

10-1-17

(52)

77+00 "D"

DIST

SOUND

77+00

"D"

DIST

SOUND

0+00 = STA 77+00 ON 100' OFFSET LINE (3/4) SOUND SOUTH AT 90° TO 2/4

3+60

3.5

-0.3

DIST

SOUND

DIST

SOUND

3.6

-0.4

0+00

0.7

+2.5

1+80

2.6

+0.6

(3.2)

3.6

—

13:57

0.8

+2.4

2.6

—

3.7

-0.5

1.0

+2.2

2+00

2.2

+0.5

7+00

3.7

—

(3.2)

1.2

+2.0

(3.2)

2.9

+0.3

19+00

3.8

-0.6

1.0

+2.2

2.9

—

3.9

-0.7

50

1.1

+2.1

2.9

—

4.0

-0.8

1.2

+2.0

2.9

—

4.0

—

1.4

+1.8

50

3.0

+0.2

50

4.0

—

1.6

+1.6

3.0

—

4.0

—

1.7

+1.5

3.0

—

4.0

—

1+00

1.5

+1.7

3.0

—

4.1

-0.9

2.0

+1.2

3.0

—

4.1

—

2.0

—

3+00

3.2

0.0

5+00

4.1

—

2.0

—

14:00

3.2

—

14:00

—

—

14:00

2.1

+1.1

3.2

—

50

2.3

+0.9

3.2

—

2.5

+0.7

3.3

-0.1

1+70

2.5

—

3+50

3.4

-0.2

10-1-47

89+00 "D"

4+00=STA 89+00 ON 120' OFFSET LINE (3/4) SOUND SOUTH A-90° TO B

DIST	SOUND		DIST	SOUND	
0+00	3.2	-0.4	1+80	3.2	-0.4
<u>14:30</u>	3.2	—		3.2	—
	3.2	—	2+00	3.2	—
(2.8)	3.2	—	(2.8)	3.2	—
	3.2	—		3.2	—
50	3.1	-0.3		3.2	—
	3.1	—		3.1	-0.3
	3.1	—	50	3.1	—
	3.1	—		3.1	—
	3.1	—		3.2	-0.4
1+00	3.1	—		3.2	—
	3.1	—		3.2	—
	3.1	—	3+00	3.2	—
	3.1	—		3.2	—
	3.1	—		3.2	—
50	3.1	—		3.2	—
	3.1	—		3.2	—
1+70	3.2	-0.4	3+50	3.2	—

89+00

"D"

10-1-47

(53)

DIST	SOUND		DIST	SOUND	
3+60	3.2	-0.4			
	3.3	-0.5			
(2.8)	3.3	—			
	3.3	—			
4+00	3.3	—			
	3.3	—			
	3.3	—			
	3.3	—			
	3.4	-0.6			
50	3.4	—			
	3.4	—			
	3.4	—			
	3.4	—			
	3.4	—			
5+00	3.4	—			
<u>14:34</u>					

88+00 "D"

10-1-47

DIST SOUND

88+00

"D"

10-1-47

DIST SOUND

(57)

0+00=STA-88+00 ON 100' OFFSET LINE (R/L) SOUND SOUTH AT 90° T. 3.2 -0.6

DIST SOUND

DIST SOUND

0+00 3.0 -0.4 1+80 3.1 -0.5 (2.6) 3.2

14:38 3.0 — 3.1 — 3.2 —

3.0 — 2+00 3.1 — 3.2 —

(2.6) 3.0 — (2.6) 3.1 — 3.2 —

3.1 -0.5 3.1 — 3.2 —

50 3.1 — 3.1 — 3.2 —

3.1 — 3.1 — 3.2 —

3.1 — 50 3.1 — 50 3.2 —

3.1 — 3.1 — 3.2 —

3.1 — 3.1 — 3.2 —

1+00 3.1 — 3.1 — 3.2 —

3.1 — 3.1 — 3.2 —

3.1 — 3+00 3.1 — 3.2 —

3.1 — 3.1 — 3.2 —

3.1 — 3.1 — 3.2 —

50 3.1 — 3.1 — 3.2 —

3.1 — 3.2 -0.6

1+70 3.1 — 3+50 3.2 —

87+00 "D"

10-1-47

DIST SOUND

87+00

"D"

10-1-47

DIST SOUND

(55)

0+00 = STA 87+00 ON 100' OFFSET LINE (2/4) SOUND SOUTH AT 20° T. 2/4

3+60

3.0

-0.5

DIST

SOUND

DIST

SOUND

3.1

-0.6

0+00

3.0

-0.5

1+80

3.0

-0.5

3.1

—

19.95

3.0

—

3.0

—

3.1

—

3.0

—

2+00

3.0

—

4+00

3.1

—

(2.5)

3.0

—

(2.5)

3.0

—

(2.5)

3.2

-0.7

3.2

-0.7

3.0

—

3.2

—

50

3.0

-0.5

3.0

—

3.2

—

3.0

—

3.0

—

3.2

—

3.0

—

50

3.0

—

50

3.2

—

3.0

—

3.0

—

3.2

—

3.0

—

3.0

—

3.2

—

1+00

3.0

—

3.0

—

3.2

—

3.0

—

3.0

—

3.2

—

3.0

—

3+00

3.0

—

5+00

3.2

—

3.0

—

3.0

—

14.93

3.0

—

3.0

—

50

3.0

—

3.0

—

3.0

—

3.0

—

1+70

3.0

—

3+50

3.0

—

86+00 "D"

10-1-47

DIST SOUND

86+00 "D"

10-1-47

(56)

DIST SOUND

0+00 = STA-86+00 ON 100' OFFSET LINE (1/4) - SOUND SOUTH AT 90° T. P.

3+60

3.0

-0.6

DIST

SOUND

DIST

SOUND

3.0

—

PX

56
30
17

0+00

3.0

-0.6

1+80

3.0

-0.6

3.0

—

1+59

3.0

—

3.0

—

3.0

—

3.0

—

2+00

3.0

—

4+00

3.0

—

(2.9)

2.9

-0.5

(2.9)

3.0

—

(2.9)

3.1

-0.7

2.9

—

3.0

—

3.1

—

50

2.9

—

3.0

—

3.1

—

3.0

-0.6

3.0

—

3.1

—

3.0

—

50

3.0

—

50

3.1

—

3.0

—

3.0

—

3.1

—

3.0

—

3.0

—

3.1

—

1+00

3.0

—

3.0

—

3.1

—

3.0

—

3.0

—

3.1

—

3.0

—

3+00

3.0

—

5+00

3.1

—

3.0

—

3.0

—

1+58

3.0

—

3.0

—

50

3.0

—

3.0

—

3.0

—

3.0

—

1+70

3.0

—

3+50

3.0

—

Sta Obj Angles

So. Br. {
 Diego Ecc. ⓪ 82° 56' 15"
 R. ↘ ⓑ 165° 52' 00" 82° 56' 05"
 Coaster ⓐ 497° 36' 30"

✓ No. Br. {
 Diego Ecc. ⓪ 97° 12'
 R. ↘ ⓑ 194° 24' 97° 12' 06"
 Coaster ⓐ 583° 12' 40"

Coaster {
 No. Br. ⓪ 57° 42'
 R. ↘ ⓑ 115° 24' 57° 41' 55"
 Diego Ecc. ⓐ 346° 11' 30"

✕ Coaster {
 So. Br. ⓪ 54° 03' 00"
 R. ↘ ⓑ 108° 05' 30" 54° 02' 40"
 Diego Ecc. ⓐ 324° 16'

✓ Diego Ecc. {
 Coaster ⓪ 25° 06' 30"
 R. ↘ ⓑ 50° 13' 25° 06' 05"
 No. Br. ⓐ 150° 36' 30"

Indexed

97° 12' 06"
 57° 41' 55"
 25° 06' 05"
 180° 00' 06"

82° 56' 05"
 54° 02' 40"
 43° 01' 50"
 180° 00' 35"

Main Channel

← 100' →

Permanent Bridge

S. 50° 00' E.

Temp. Trestle

Diego Ecc. = N 3300.50 W 19000.00
 Coaster = N 7545.37 W 19,143.70
 N 1° 56' 19" W 4247.80

Diego Ecc. {
 Coaster ⓪ 43° 02'
 R. ↘ ⓑ 86° 04' 43° 01' 50"
 So. Br. ⓐ 258° 11'

10-26-47
 ELEVATIONS OF TOP OF PILES
 ON W. SIDE OF MISS. BEACH BRIDGE

STA	+	H I	-	ELEV.
B.M.	4.07	16.20		12.133
		4.05		12.15
		6.20		10.00
		5.32		10.88
		2.15		14.05
		+0.5		16.7

10-26-47
 TOM ALLEN
 TOM STAMPER

TOP OF BRASS PLUG 8.8' S OF S. END OF
 MISSION BEACH BRIDGE ON E. RD. CURB.

TOP DECK 1-ST BENT W. SIDE

" CAP W. SIDE 1-ST BENT

" PILE W. " AT REM SPAN.

" CAP " " " "

" DECK " " " "

4' X 16" 2' OC, STRINGERS

2X4 X BRIDGING $\frac{1}{2}$ EACH SPAN

SPANS 16' OC.

Indexed

PX		101700	
DIST	SOUND	DIST	SOUND
370	2.9	+2.5	
	2.9	+2.5	
(4.9)	2.5	+2.4	
4100 3700	2.6	+2.3	
	2.6	-	
	2.6	-	
	2.5	+2.4	
	2.9	+2.5	
50	2.3	+2.6	
	2.1	+2.8	
	1.5	+3.4	
STAKE 4180 3780	0.0	+4.9	

10:18

PX		102700		10-27-97		(60)
DIST	SOUND	DIST	SOUND	DIST	SOUND	
1000-Pt. 360' E/STA. 102700 W/CAUSEWAY Bk. SOUND EAST.						
0410	1.3	+3.4	1790	2.5	+2.2	
1135	2.1	+2.6	2700	2.5	-	
	2.3	+2.4		2.5	-	
(4.7)	2.9	+2.3	(4.7)	2.5	-	
50	2.9	+2.3		2.5	-	
	2.9	-		2.5	-	
	2.9	-	50	2.6	+2.1	
	2.5	+2.2		2.6	-	
	2.9	+2.3		2.6	-	
1700	2.9	-		2.7	+2.0	
	2.9	-		2.7	-	
	2.9	-	3700	2.7	-	
	2.9	-		2.7	-	
	2.9	-		2.7	-	
50	2.9	-		2.7	-	
	2.9	-		2.8	+1.9	
	2.5	+2.2	3750	2.8	+1.9	
1780	2.5	-	3760	2.8	+1.8	

PX

102+00

10-27-47

DIST	SOUND		DIST	SOUND
3+70	3.0	+1.7		
	3.0	+1.7		
(4.7)	3.1	+1.6		
4+00	3.1	-		
	3.1	-		
	3.1	-		
	3.1	-		
	3.1	-		
50	3.1	-		
	3.2	+1.5		
	3.1	+1.6		
	3.1	+1.6		
	2.9	+1.8		
5+00	2.3	+2.4		
	2.0	+2.7		
	1.7	+3.0		
	1.1	+3.6		
	0.9	+3.8		
STAITE				
50	0.1	+4.6		

99+00

10-27-47

PX

1100 FT. 895' E/STA-99+00 W/CAUSEWAY B/X: SOUND EAST

(6)

DIST	SOUND		DIST	SOUND
	1+90	1.6		+2.9
0+10	0.9	+3.6	2+00	1.7
10:50	0.9	-	10:53	1.7
	0.9	-		1.7
(4.5)	1.0	+3.5	(4.5)	1.7
50	1.1	+3.4		1.7
	1.2	+3.3	50	1.7
	1.2	-		1.7
	1.2	-		1.7
	1.2	-		1.6
1+00	1.3	+3.2		+3.0
	1.4	+3.1	3+00	1.5
	1.4	+3.1		1.5
	1.5	+3.0		1.5
	1.6	+2.9		1.5
50	1.7	+2.8		1.5
	1.6	+2.9	50	1.5
	1.6	+2.9		1.6
1+80	1.5	+3.0	3+70	1.6

99+00

10-27-47

DIST	SOUND	DIST	SOUND
3+80	1.6	+2.9	5+80 2.2
	1.6	-	2.2
4+00	1.6	-	6+00 2.2
	1.6	-	2.2
(4.5)	1.6	-	(4.4) 2.2
	1.8	+2.7	2.2
	1.9	+2.6	2.2
50	2.0	+2.5	50 2.2
	2.0	-	2.2
(4.5)	2.0	-	2.3 +2.1
<u>10:55</u>	2.1	+2.4	2.4 +2.0
	2.1	+2.3	2.4
5+00	2.1	-	7+00 2.4
(4.4)	2.2	+2.2	2.5 +1.9
	2.2	-	2.5
	2.2	-	2.5
	2.2	-	2.5
50	2.2	-	50 2.5
	2.2	-	
5+70	2.2	-	

100+00

10-27-47

PX

1002 Pt. 210 EAST STA - 100+00 W/ CAUSEWAY 3/4 S. SOUND EAST,

DIST	SOUND	DIST	SOUND
1+10	1.0	+3.2	1+90 2.0
1109	1.5	+2.7	2+00 2.0
	1.6	+2.6	2.0
(4.2)	1.6	-	(4.2) 1.8
50	1.6	-	1.5 +2.7
	1.6	-	1.5 +2.7
	1.7	+2.5	50 1.6
	1.8	+2.4	1.6
	1.8	+2.3	1.6
1+00	1.9	-	1.7 +2.5
	1.9	-	1.9 +2.3
	1.9	-	3+00 1.9
	1.8	+2.4	2.0 +2.2
	1.8	-	2.0
50	1.8	-	2.0
	1.8	-	1.8 +2.4
	1.9	+2.3	50 1.8
1+80	1.9	-	3+60 1.7

100+0.0		10-27-17	
DIST PX	SOUND	DIST	SOUND
3+70	1.5	+2.7	5+70 2.2 +2.0
<u>11:10</u>	1.4	+2.8	2.3 +1.9
	1.4	-	2.3 -
4+00	1.5	+2.7	6+00 2.3 -
(4.2)	1.7	+2.5	(4.2) 2.1 +1.8
	1.7	+2.5	2.4 -
	1.8	+2.4	2.4 -
	1.8	-	2.4 -
50	1.8	-	50 2.4 -
	2.0	+2.2	2.5 +1.7
	2.0	-	2.5 -
	2.0	-	2.5 -
	2.0	-	2.5 -
	2.0	-	2.5 -
5+00	2.0	-	7+00 2.5 -
	2.0	-	2.5 -
	2.0	-	2.5 -
	2.0	-	2.5 -
	2.1	+2.1	2.6 +1.6
50	2.1	-	50 2.5 +1.7
5+60	2.2	-	7+60 2.5 -

10-27-17		101+0.0		PX	
STA	H.I.	-	ELEV	HOLE LEVEL	
STATION = P ₇ 850' STA 101+00 W/ CAUSEWAY B ₄ : SOUND EAST.					
	6.0	10.0	(4.0)	<u>11:27</u>	
			3.5	6.5	
			5.0	5.0	
			1.0	6.0	
			6.0	4.0	
ELEV = (SAME AS ABOVE)					
DIST	SOUND	DIST	SOUND	EAST	
1+10	0.9	+3.1	2+30	2.0	+2.0
<u>11:30</u>	1.4	+2.6	(4.0)	1.8	+2.2
	1.8	+2.2	50	1.8	-
(4.0)	2.0	+2.0	<u>11:33</u>	1.8	-
50	2.0	-		1.8	-
	2.0	-		1.7	+2.3
	2.0	-		1.6	+2.4
	2.0	-	3+00	1.6	-
	2.0	-		1.7	+2.3
	2.0	-		1.8	+2.2
	2.0	-		1.8	-
	1.8	+2.2	3+40	1.8	-

101+00		10-27-17	
DIST	SOUND	DIST	SOUND
3+50	1.8 +2.2	5+50	1.7 +2.7
	1.8 -	11+35	1.9 +2.0
(4.0)	1.9 +2.1		2.0 +1.9
	1.9 -	(3.9)	2.0 +1.9
	1.9 -		2.6 +1.3
7+00	1.9 -	6+00	2.5 +1.4
	1.9 -		2.5 +1.4
	1.9 -		2.6 +1.3
	1.8 +2.2		2.6 +1.3
	1.8 -		2.7 +1.2
50	1.8 -	50	2.9 +1.0
	1.9 +2.1		3.2 +0.7
	1.9 -		3.2 +0.7
	2.0 +2.0		3.3 +0.6
	2.0 -		3.3 -
5+00	2.0 -	7+00	3.3 -
	2.0 -		3.5 +0.4
(4.0)	1.9 +2.1		3.5 +0.4
(3.9)	1.8 +2.2		4.0 -0.1
		11+35	4.1 -0.2
5+90	1.7 +2.3	2+50	4.1 -0.2

102+00		10-27-17	
DIST	SOUND	DIST	SOUND
100 = Pt. 910' E/STA-102+00 W/CAUSEWAY B/L; SOUND EAST			
STA	+	H.I.	-
ELEV			
H ₂ O LEVEL		H ₂ O LEVEL	
11:25	7.2	10.8	(3.6)
0+20		5.2	5.6
0+40		5.5	5.3
0+70		7.2	3.6
0+00 = (SAME AS ABOVE)			
DIST	SOUND	DIST	SOUND
0+80	0.9 +3.2	2+10	1.9 +1.7
11:50	0.6 +3.0		1.9 -
1+00	1.1 +2.5	(3.6)	1.9 -
(3.6)	1.6 +2.0		1.9 -
	1.6 -	50	1.9 -
	1.8 +1.8		2.0 +1.6
	2.2 +1.4		2.0 -
50	2.2 -		2.1 +1.5
	2.2 -		2.1 -
	2.2 -	7+00	2.2 +1.4
	2.0 +1.6		2.2 -
	1.8 +1.8	11:52	2.3 +1.3
2+00	1.9 +1.7	3+30	2.4 +1.2

(69)

PX		102+0.0		10-27-47	
DIST	SOUND	DIST	SOUND		
3+40	2.5	+1.1	5+40	4.6	-1.0
50	2.5	-	50	5.0	-1.4
(3.6)	2.5	-		5.0	-
	2.5	-	(3.6)	5.0	-
	2.9	+0.7		5.0	-
	3.6	0.0		5.0	-
4+00	4.0	-0.4	6+00	5.0	-
	4.1	-0.5		5.0	-
	4.2	-0.6		5.0	-
	4.2	-		5.0	-
	4.3	-0.7		4.5	-0.9
50	4.7	-1.1	50	4.1	-0.5
	5.0	-1.4		4.0	-0.4
	5.0	-		4.0	-
	5.0	-		4.0	-
	4.5	-0.9		4.0	-
5+00	4.1	-0.5	7+00	3.5	+0.1
	4.1	-		3.5	-
	4.0	-0.4		3.5	-
5+30	4.2	-0.6	7+30	3.8	-0.2

10-27-47		103+00		10-27-47		(65)
STA	H.I.			ELEV		H ₂ O LEVEL
+00 = PT. 307' EAST CAUSEWAY B/L:						
11.99	14.29	3	PX	(2.3)		17.01
E0+13				9.5	4.8	
E0+11				8.5	5.8	
E0+03				7.7	9.6	
W0+48				7.4	9.9	
W1+03				7.3	10.0	
W1+54				7.4	10.0	
W2+02				3.5	10.8	
W2+13				3.5	10.8	
W2+28				2.5	11.8	
W2+53				8.4	5.9	
W2+61				8.6	5.7	
+00 = PT. 880' E/STW-103+00 CAUSEWAY B/L:						
6.00	8.2			(2.2)		14.18
0+00			PX	5.0	3.2	
E0+16				3.0	5.2	
E0+31				2.3	5.9	
E0+55				2.6	5.6	

PX

103+00

104+00

STA	+	H.I.	-	ELEV
E0+75		8.2	2.7	5.5
E0+87			1.0	4.2

0+00 = PT. 910' E/STA-104+00 W/causeway of hi

PX

STA	+	H.I.	-	ELEV	H ₂ O LEVEL
0+00		6.75	8.95	(2.2)	14.27
E0+65				3.7	5.2
E0+53				2.7	6.2
E0+20				3.0	5.9
0+00				5.0	3.9

6.00

25

105+00

10-27-77

(67)

0+00 = PT. 1020' E/STA-105+00 W/CAUSEWAY H/L:

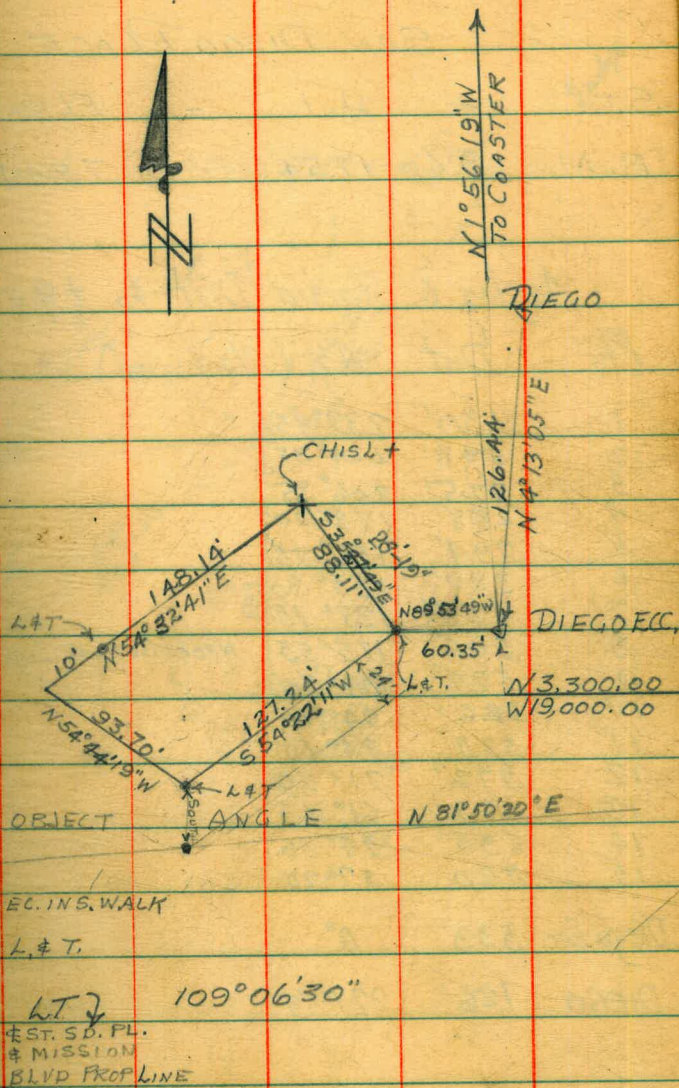
STA	+	H.I.	-	ELEV
H ₂ O LEVEL	6.00	8.2	(2.2)	H ₂ O LEVEL 14.23
W 0+25			6.0	2.2
0+00			5.0	3.2
E 0+37			5.2	3.0
E 0+80			3.1	5.1
E 1+15			2.2	6.0
E 1+65			2.7	5.5
E 2+10			2.8	5.4
E 2+50			2.8	5.4
E 2+75			4.2	4.0
E 2+95			5.3	2.9
E 3+20			4.5	3.7
E 3+70			5.2	3.0

PROPERTY TIES OF
SAN DIEGO PLACE MISSION
BEACH AREA

10-31-47

T.A. STAMPER
E.F. WATSON
OVERCAST-Cook

STA	OBJ	ANGLE	DIST
W E.C. & S.D. PL. & ST. CHISL &	R ↘ 10' OFF. MISS. BLVD. L & T & S.P.L. RAYSIDE LANE S.D. PL. CURVE E.C.W L & T.S.W.	90° 00' 30"	88.11'
			148.14'
W E.C. CURVE IN S. WALK S.D. PL. L & T	L ↘ 10' OFF MISS. BLVD. & S.D. PL. ST W.E.C. & S.D. PL. & STREET CHISL. &	90° 00' 00"	0.87' RR
		90° 10' 00"	127.24'
W-EP. IN S. WALK S.D. PL. L & T 1' S. OF N. EDGE	L & T IN S.W. AT S.W. COR OFLT. "I" DIEGO ECC.	① 144° 16' 00" ② 288° 32' 00" AV. 144° 16' 00"	
DIEGO ECC.	R ↘ L & T IN S.W. AT S.W. COR OFLT. "I" S.D. PL. W.E.C. IN S.W. S.D. PL. L & T	① 87° 57' 30" ② 175° 55' 00" AV. 87° 57' 30"	60.35'
EST. S.D. PL. & MISS. BLVD ON PR. LINE	R ↘ L & T AT S.W. COR. LT. "I"	70° 43' 00"	93.70'



TOPOGRAPHIC FEATURES
 PROPERTY OF V. R. DENNIS
 W. OF MISSION BLVD NEAR
 SAN DIEGO PLACE

11-19-47 T. ALLEN ⁽⁶⁹⁾
 T. STAMPER
 G. WATSON

STA + H.I. - ELEV.
 B.M. 9.60 17.54 7.944

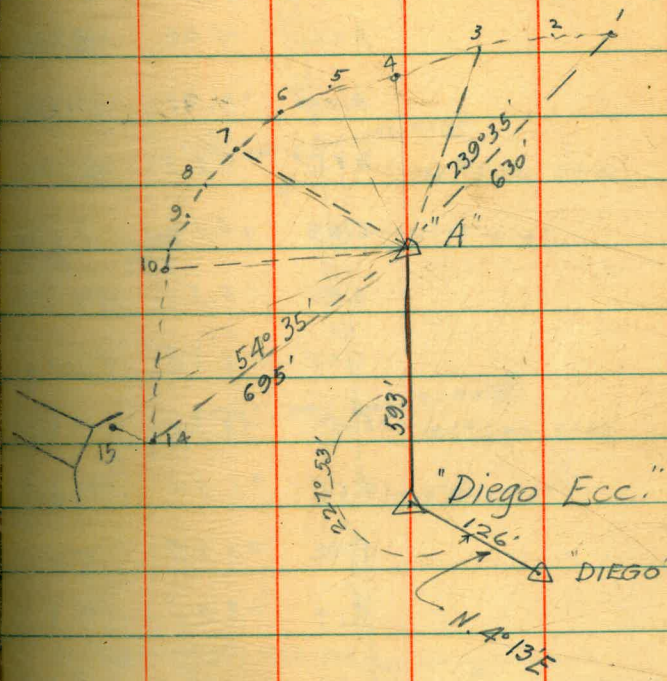
Index

Angles & Stadia Dist to +9.0 Curve

Pt.	Dist.	Az. (Clockwise)
1	630'	239°35'
2	508'	224°35'
3	375'	206°35'
4	288'	178°30'
5	294'	156°15'
6	390'	135°30'
7	455'	127°15'
8	506'	115°55'
9	525'	104°30'
10	526'	94°10'
11	535'	84°50'
12	572'	71°20'
13	628'	61°45'
14	695'	54°35'
15	720'	57°20'
Diego Ecc.	593'	0°
DIEGO	126'	227°53'

Near "Danger" Sign

Top of 1 1/2" Capped I. Pipe (Diego Ecc)



FLOW - LINE
GRADES FOR CARMEL POINT SEWER LINE

12-11-47

Indx

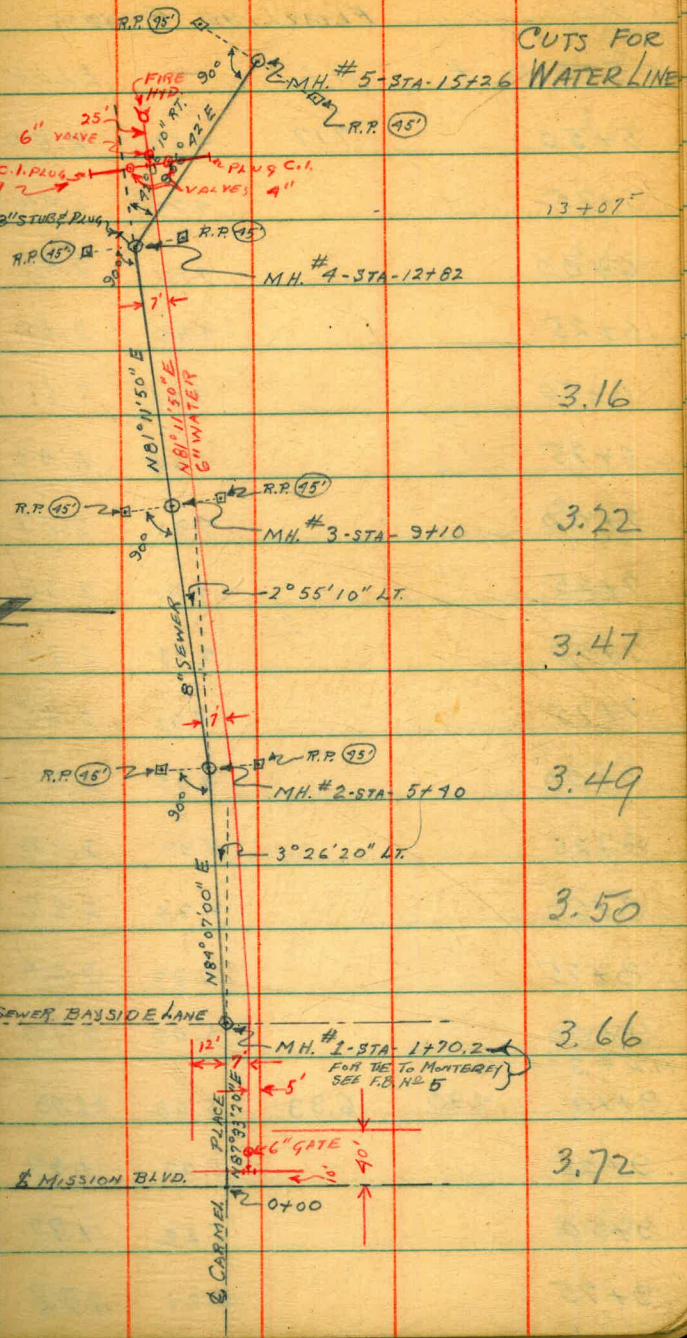
BARRAGAN
SHERRY
STANLEY

12-11-47

70

CUTS FOR
WATER LINE

STA	+	H.I.	-	ELEV.	GRADE	CUT.
B.M.	7.74	7.17		X-ON-WALK STA-107+00 -0.57		
M.H.#1						
1+70.2					-5.40	
1+75					-5.39	
2+00		8.26	-1.09	-5.30	4.21	
2+25		8.08	-0.91	-5.21	4.30	
2+50		7.45	-0.28	-5.12	4.84	
2+75		6.98	+0.19	-5.03	5.22	
3+00		6.45	+0.72	-4.95	5.67	
3+25		6.05	+1.12	-4.86	5.98	
3+50		5.83	+1.34	-4.77	6.11	
3+75		5.66	+1.51	-4.68	6.19	
4+00		5.42	+1.75	-4.60	6.35	
4+25		5.17	+2.00	-4.51	6.51	
4+50		5.01	+2.16	-4.42	6.58	
4+75		4.95	+2.22	-4.33	6.55	
5+00		4.85	+2.32	-4.25	6.57	
5+25		4.75	+2.42	-4.16	6.58	
M.H.#2						
5+40		4.71	+2.46	-4.11	6.57	



FLOWLINE GRADES

CUT FOR
WATERLINE

STA.	+	H.I.	-	ELEV	GRADE	CUT	
5+50		7.17	4.67	2.50	-4.07	6.57	3.80
5+75			4.73	2.44	-3.98	6.42	
6+00			4.70	2.47	-3.90	6.37	3.62
6+25			4.56	2.61	-3.81	6.42	
6+50			4.56	2.61	-3.72	6.33	3.81
6+75			4.68	2.49	-3.63	6.12	
7+00			4.90	2.27	-3.55	5.82	3.42
7+25			4.81	2.36	-3.46	5.82	
7+50			4.93	2.24	-3.37	5.61	3.34
7+75			4.92	2.25	-3.28	5.53	
8+00			4.95	2.22	-3.20	5.42	3.27
8+25			4.99	2.18	-3.11	5.29	
8+50			4.94	2.23	-3.02	5.25	3.23
8+75			4.93	2.24	-2.93	5.17	
9+00			5.00	2.17	-2.85	5.02	3.07
M.H. # 3 T.P.							
9+10	4.90	6.99	5.08	+2.09	-2.81	4.90	
9+25			5.02	1.97	-2.76	4.73	2.6
9+50			5.22	1.77	-2.67	4.44	2.62
9+75			5.21	1.78	-2.59	4.37	

FLOWLINE GRADES

CUTS FOR
WATER LINE

STA	+	H.I.	-	ELEV.	G-GRADE	CUT	
10+00		6.99	4.94	2.89	-2.50	5.39	3.69
10+25			4.71	2.28	-2.41	4.69	
10+50			4.65	2.34	-2.32	4.66	3.09
10+75			4.73	2.26	-2.24	4.50	
11+00			5.01	1.98	-2.15	4.13	2.68
11+25			5.03	1.96	-2.06	4.02	
11+50			4.92	2.07	-1.97	4.04	2.72
11+75			4.96	2.03	-1.89	3.92	
12+00			4.98	2.01	-1.80	3.81	2.58
12+25			4.74	2.25	-1.71	3.96	
12+50			4.51	2.48	-1.62	4.10	2.98
12+75			4.37	2.62	-1.54	4.16	
M.H. #4							
12+82			4.32	2.67	-1.51	4.18	
13+00			4.22	2.77	-1.45	4.22	3.22
13+25			4.72	2.27	-1.36	3.63	
13+50			5.00	1.99	-1.27	3.26	
13+75			4.98	2.01	-1.19	3.20	
14+00			4.94	2.05	-1.10	3.15	
14+25			5.13	1.86	-1.01	2.87	

12-11-47

FLOWLINE GRADES

STA	+	H.I.	-	ELEV	GRADE	CUT
14+50		6.99	5.04	1.95	-0.92	2.87
14+75			4.63	2.36	-0.84	3.20
15+00			4.83	2.16	-0.75	2.91
M.H. #5						
15+26			5.20	1.79	-0.66	2.95

12-19-47

CUTS FOR EL CARMEL POINT WATER LINE

STA	+	H.I.	-	ELEV	GRADE	CUT
B.M.					X on WALK	
107+00	5.57	5.00		-0.57	STA-107+00	
1+70						
OFFSET			6.28	-1.28		3.18
1+70						
£			6.36	-1.36	-4.96	
1+59						
OFFSET			6.25	-1.25		3.17
1+59						
£			6.32	-1.32	-4.92	
1+26						
OFFSET			5.53	-0.53		3.53
1+26						
£			5.96	-0.96	-4.06	
0+98						
OFFSET			5.27	-0.27		3.45
0+98						
£			5.62	-0.62	-3.72	
0+35						
OFFSET			3.68	+1.32		3.59
0+35						
£			4.17	+0.83	-2.27	
0+10						
OFFSET			3.18	+1.52		CUT TO CONNECTION
0+10						
£			3.47	+1.53	MIN=-1.57	

(73)

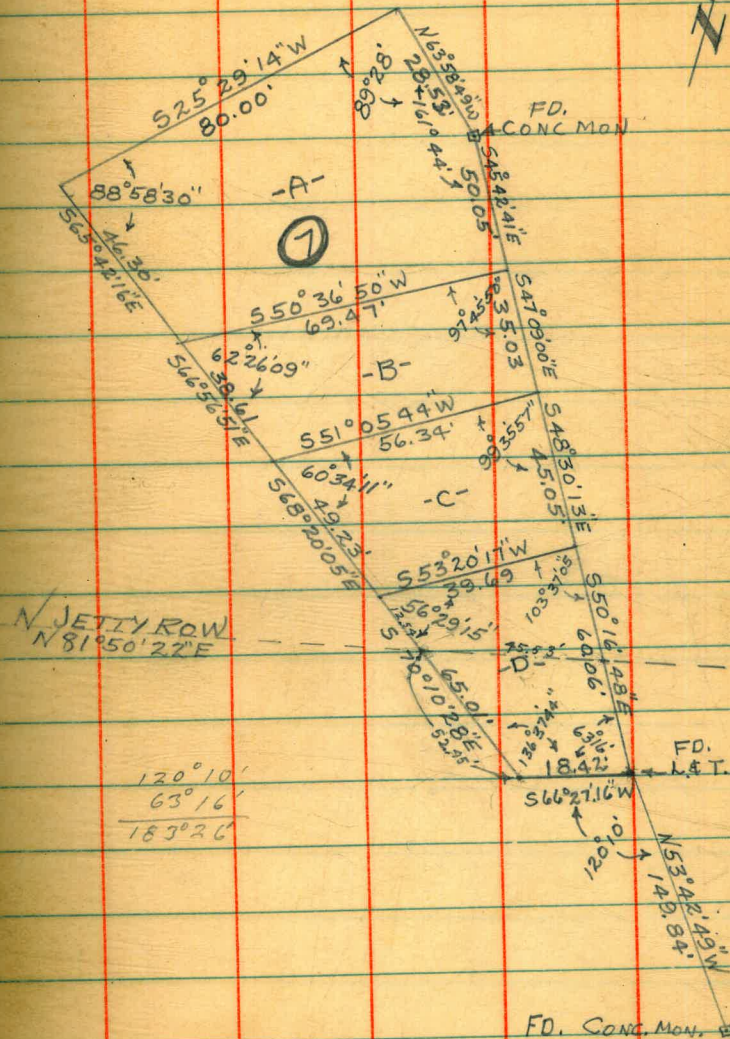
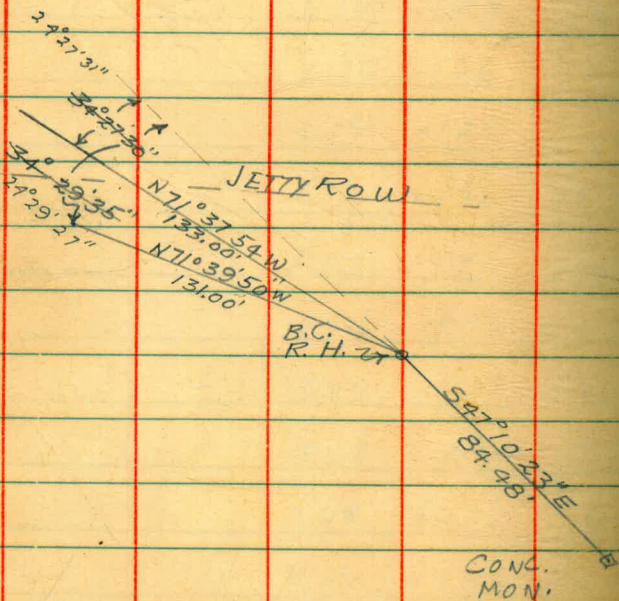
RIGHT OF WAY TIES TO PORTION
OF BLOCKS L & T, MISSION BEACH

12-23-47 T.A. STAMPER

STA

7137.54
4710.23
2427.31

7139.50
4710.23
2429.27



T W, CSWY. B.L.

103 - E 320 - E 880

104 - E 910

105 - E 1020

106 - E 1110



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

b^2

c^2

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

37

$$\frac{c}{A}$$

+B)

+B)

y the

9.4 ft.

10' =

slope

in the

allow-

.0041.

dist-

14 ft.

ft.

IN U. S. A.

76 - 200'E
 75 - 210-E
 77 - 170E
 78 - 120
 79 - 040

19.31
 N - 30.22
 30.22
 80.59
 420
 80
 500
 W - 28.352
 28.413
 28.754
 85.22

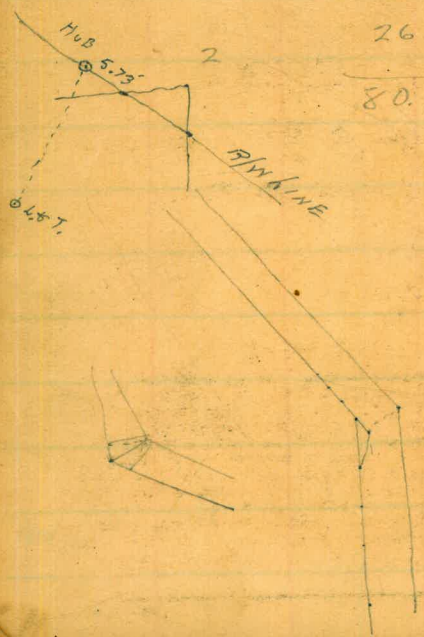
144° 16' 00" (1) 125.34
 288° 32' 00" 251.09
 125.3770 (2)
 1064.68
 5400
 101468

89 104
 2 179 41
 16
 19

90° 09' 30" (A)

180 19 89 - 11.15
 91 - 1101

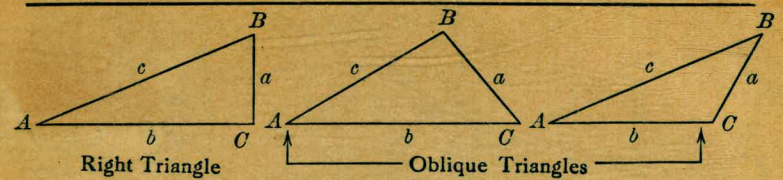
62 - 4.434
 63 - 5.19 - 11.24
 65 - 5.91 - 10.52
 66 - 6.20 - 10.23



26.78
 3
 80.38

51.88
 18.70
 69.75

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

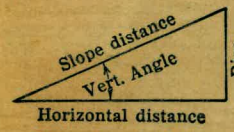
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\text{cosec} = \frac{c}{b}$

Given	Required	Formula	Value
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$	
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$	
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$	13.37
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$	345
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$	1702

Solution of Oblique Triangles

Given	Required	Formula	Value
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$	
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$	
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$, $c = \frac{a \sin C}{\sin A}$	
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$	
a, b, c	Area	$\text{area} = \frac{a + b + c}{2} \times \sqrt{s(s - a)(s - b)(s - c)}$	13.86
A, b, c	Area	$\text{area} = \frac{b c \sin A}{2}$	548
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$	1924

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. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
 Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: - the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.