

MB 123



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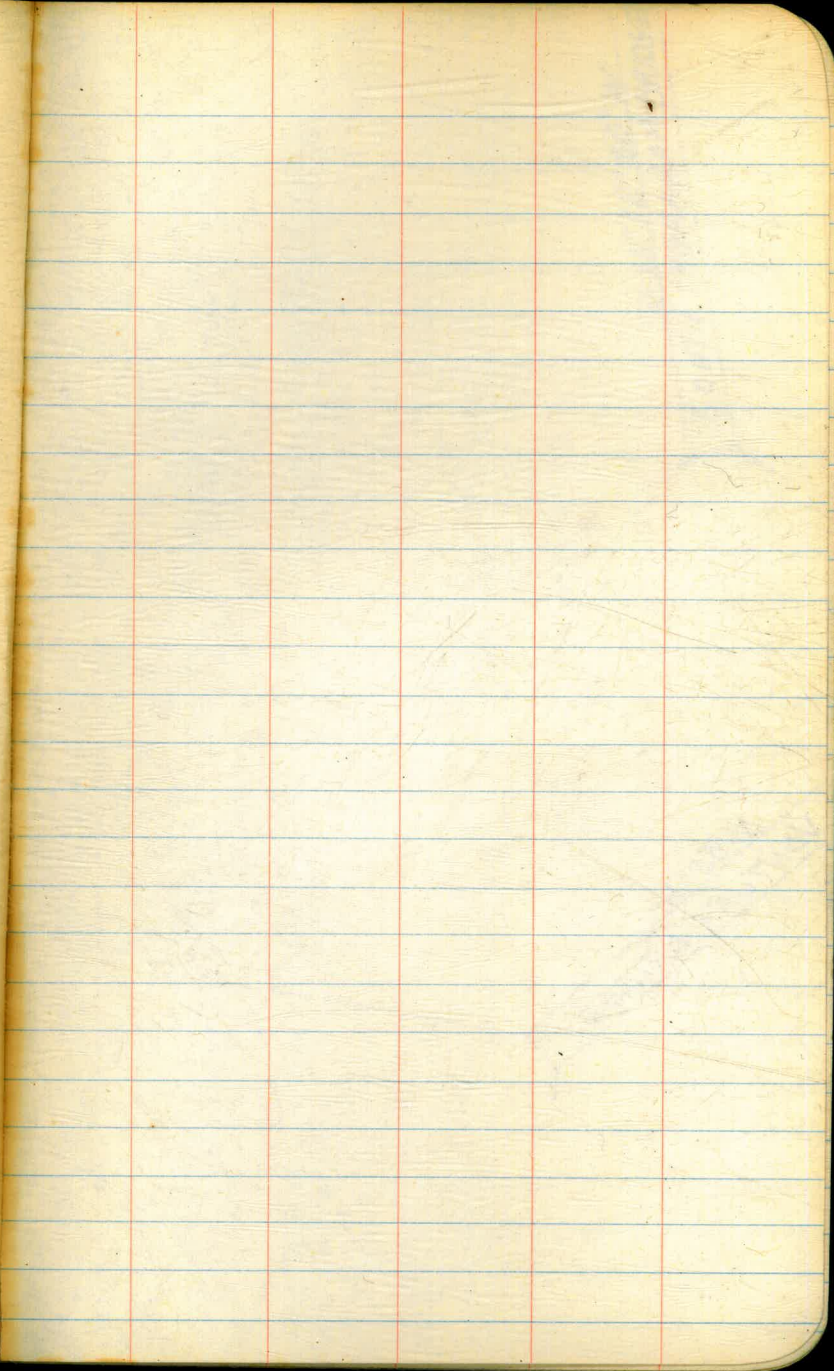
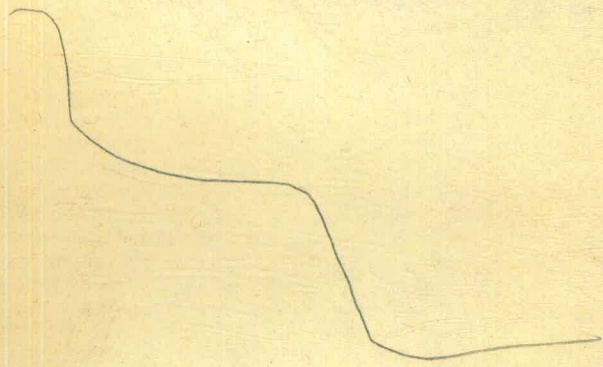
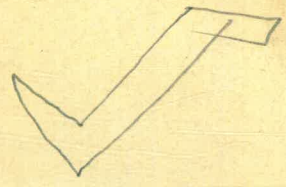
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MICROFILMED

MB No 123

THIS BOOK INDEXED 2/9/62

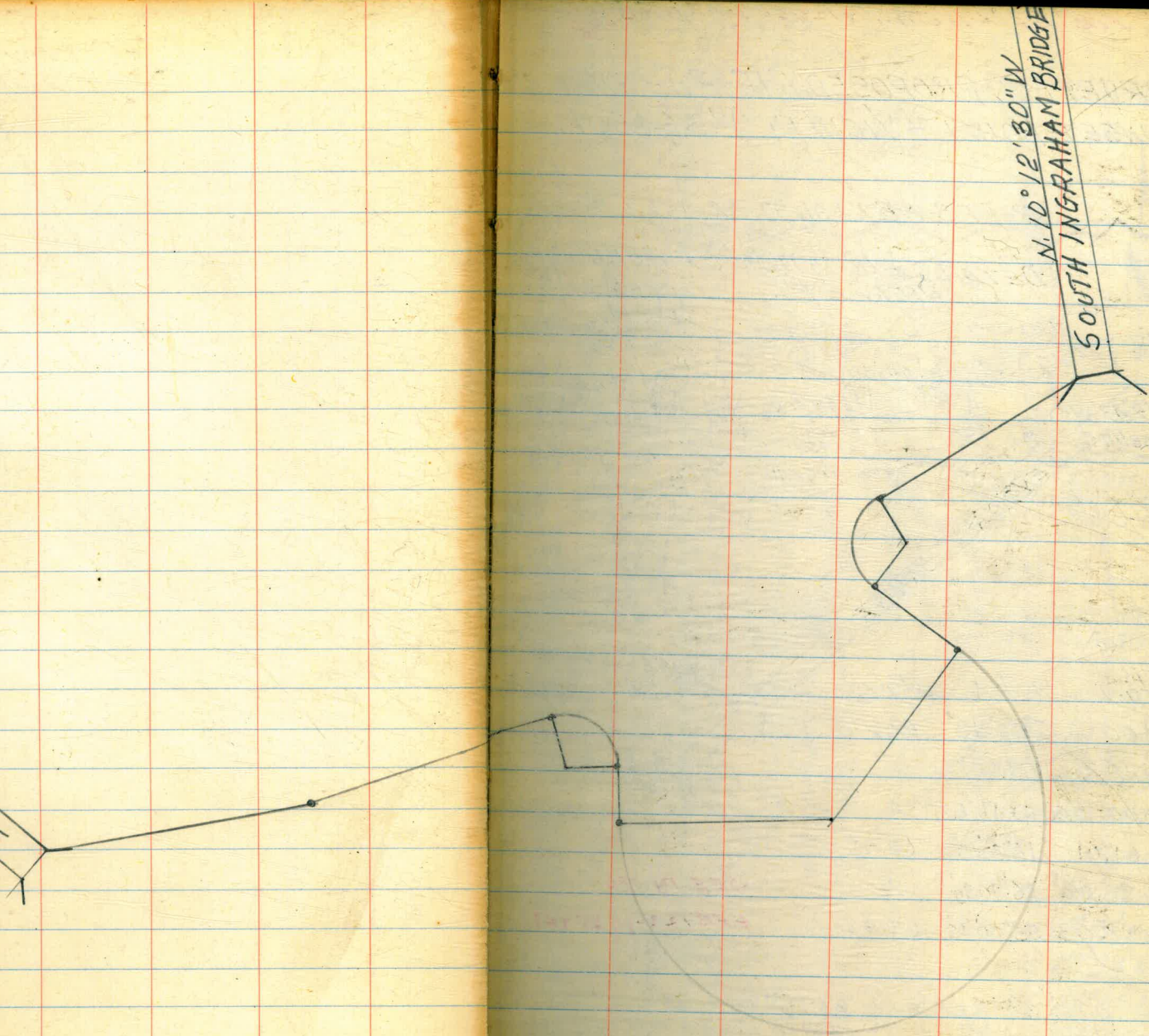
3.



N. 50° W  
VENTURA BRIDGE

N. 10° 12' 30" W

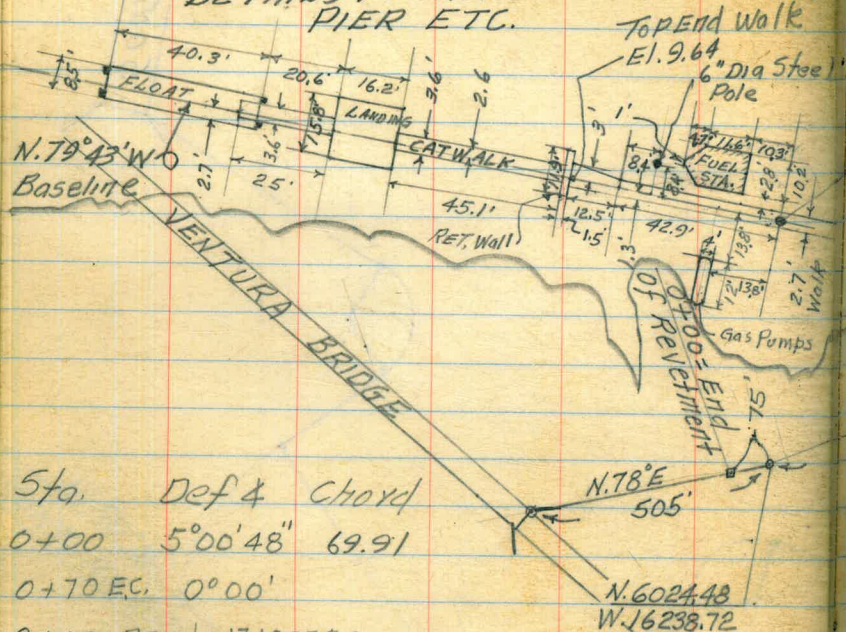
SOUTH INGRAHAM BRIDGE



SURVEY FOR PROPOSED RIP-RAP OF SUNSET POINT & VICINTY W.O. 64501

Ref FB MB No 81, 97, 88

DETAILS & LOCATION OF FUEL DOCK, PIER ETC.



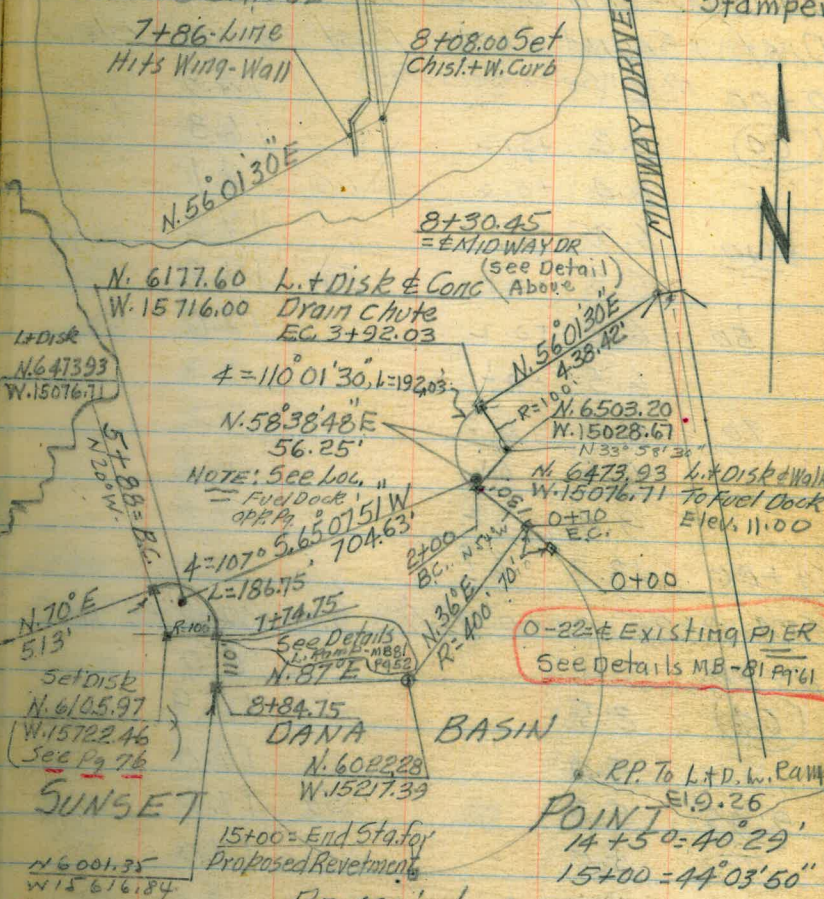
Sta.	Def &	Chord
0+00	5°00'48"	69.91
0+70 E.C.	0°00'	
2+00 = B.C.	d = 17.188734	
2+64.01	18°20'15"	62.92
3+28.02	36°40'30"	"
3+92.03	55°00'45"	62.92

0+70 = N 6345.89  
W 14982.28

2+00 = N 6422.30  
W 15087.45

SEE Pg 76  
+ FB 122-pg 35+47  
(138)

DETAIL @ BRIDGE



Sta	Def &	Chord
8+84.75 = B.C. Lt		
9+00	1°05'32"	
+50	4°40'24"	
10+00	8°15'15"	
50	11°50'06"	
11+00	15°24'58"	

Sta	Def &	Chord
11+50	18°59'49"	
12+00	22°34'41"	
+50	26°09'32"	
13+00	29°44'24"	
+50	33°19'16"	
14+00	36°54'07"	

Stampers  
N

(SEC. ON AS. BUILT) 12-17-59

RIP-RAP

STA 0+00 = B/L SOUND N 12° W

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00	NOTE: (See X-Sec's P. 99)			14.9	
(6.9)	3.2	+3.2		16.3	
	6.4	+0.0	1+00	17.1	
<u>9:40</u>	6.3	+0.1		17.2	
	6.3	+0.1	50	17.2	
50	6.2	+0.2		17.0	
	6.5	-0.1			
70	6.7	0.3	50		
	6.5	0.1			
	9.4	3.0			
1+00	13.3	6.9			

STA 0+25; 0+00 = B/L; SOUND N 12° W

Dist	Sound	Elev	Dist	Sound	Elev
0+00				16.0	
(6.4)	2.5			16.9	
	5.0			17.0	
<u>9:45</u>	5.3		50	17.1	
	5.5			17.0	
50	6.0				
	6.1				
	6.2				
	6.3				
	6.9				
1+00	12.1				
	14.3				

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(2)

STA 0+75; 0+00 = B/L SOUND N 16° W

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00				13.0	
(6.4)	2.2			15.1	
	3.9			16.0	
<u>9:50</u>	4.3			16.7	
	4.6		50	17.3	
50	5.1			17.2	
	5.2				
	5.5				
	6.0				
	7.0				
1+00	10.7				

STA 1+00; 0+00 = B/L; SOUND N 20° W

Dist	Sound	Elev	Dist	Sound	Elev
0+00				15.0	8.6
(6.4)	2.0	+4.4		15.9	9.5
	3.2	+3.2		16.4	10.0
<u>9:55</u>	4.0	+2.4	50	17.1	10.7
	4.0	+2.4		17.4	11.0
50	4.3	+2.1		17.4	11.0
	4.8	+1.6			
	5.1	+1.3			
	5.5	+0.9			
	7.6	<u>1.3</u>			
1+00	12.0	5.6			
	13.9	7.5			

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STA. 1+50; 0+00=B/L; SOUND N. 20° W

Dist Sound Elev. Dist Sound Elev

0+00			13.0		
			14.9		
			16.0		
			16.3		
		50	16.9		
50	2.9		17.2		
<u>10:00</u>	4.3		17.6		
	6.0		17.8		
	6.2		17.2		
	6.9	2+00	16.9		
1+00	10.5				

STA. 2+00; 0+00=B/L; SOUND N. 20° W

Dist Sound Elev. Dist Sound Elev

0+00			14.0		
(6.3)	2.2		15.7		
	4.0		17.0		
<u>10:05</u>	4.5	50	17.7		
	4.7		18.1		
50	5.0		18.0		
	5.4				
	5.4				
	5.9				
	5.9				
1+00	7.8				
	12.5				

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③

STA. 2+50; 0+00=B/L; SOUND N. 20° W

Dist Sound Elev. Dist Sound Elev

0+00	2.3				11.3
(6.3)	3.2				14.4
	4.0				16.0
<u>10:15</u>	4.0				16.3
	4.3			50	17.0
50	4.5				18.0
	5.0				18.1
	5.2				
	5.3				
	5.6				
1+00	7.5				

NOTE: Sta. 3+00  
P 9.4

STA. 3+50; 0+00=B/L; SOUND N. 20° W

Dist Sound Elev. Dist Sound Elev

0+00	1.4				13.2
(6.2)	2.0				14.5
	2.0				15.1
<u>10:20</u>	2.3			50	16.2
	2.9				16.5
50	4.0				16.9
	4.2				17.0
	5.5				
	6.0				
	8.1				
1+00	9.9				
	11.8				

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STA. 4+00; 0+00 = B/L; SOUND N. 20° W

Dist Sound Elev Dist Sound Elev

0+00			11.2
(62)	1.2		12.1
	1.9		14.5
<u>10:25</u>	2.5		14.3
<u>→</u>	3.2	50	15.1
50	4.0		15.9
	4.6		16.0
	5.8		16.8
	7.9		17.0
	9.1		
1+00	10.6		

STA. 4+50; 0+00 = B/L; SOUND N. 20° W

Dist Sound Elev Dist Sound Elev

0+00			13.4
(62)	1.5		14.0
	2.5		14.5
<u>10:30</u>	2.5	50	15.2
<u>→</u>	3.3		15.5
50	3.4		16.4
	4.1		16.8
	5.1		17.0
	6.8	2+00	
	9.8		
1+00	11.9		
	13.1		

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STA. 5+00; 0+00 = B/L; SOUND N. 20° W

Dist Sound Elev Dist Sound Elev

0+00	1.5		11.3
(60)	1.8		11.8
	2.2		12.5
<u>10:40</u>	2.6		13.4
<u>→</u>	4.0	50	15.3
50	4.0		16.0
	4.7		16.4
	5.0		16.5
	5.5		16.3
	7.0	2+00	16.2
1+00	10.3		

STA. 3+00; 0+00 = B/L; SOUND N. 20° W

Dist Sound Elev Dist Sound Elev

0+00	1.9		13.3
(59)	2.1		15.0
	2.6		15.4
<u>10:55</u>	3.1	50	16.3
<u>→</u>	3.5		17.5
50	3.7		18.0
	4.3		18.2
	5.0		
	5.3		
	7.1		
1+00	10.1		
	11.0		



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STA. 5+50; 0+00 = B/L; SOUND N. 20°W

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.0			13.0	
(58)	1.5			12.5	
	2.0			13.2	
<u>11:00</u>	2.6			13.9	
	3.0		50	14.3	
50	4.1			15.1	
	4.2			15.1	
	5.0			15.2	
	5.1			15.5	
	6.6		2+00	15.9	

1+00 10.1

STA. 5+88; 0+00 = B/L; SOUND N. 20°W

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.8	+4.9		13.1	7.4
(57)	1.0	+4.7		13.8	8.1
	2.1	+3.6		14.1	8.4
<u>11:05</u>	2.5	+3.2	50	15.0	9.3
	3.2	+2.5		15.4	9.7
50	4.1	+1.6		15.5	9.8
	4.3	+1.4		15.9	10.2
	5.1	+0.6		16.0	10.3
	5.2	+0.5	2+00	16.5	10.8
	7.5	1.8			
1+00	11.1	5.4			
	12.3	6.6			

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STA. 6+50.25; 0+00 = B/L; SOUND N. 15°40'E

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.9			12.6	
(54)	1.3			13.1	
	1.4			13.2	
<u>11:25</u>	2.2			13.7	
	2.9		50	13.7	
50	3.2			14.3	
	4.1			14.9	
	4.5			15.3	
	5.1			15.3	
	6.2		2+00	15.3	

1+00 10.9

STA. 7+12.50; 0+00 = B/L; SOUND N. 51°20'E

Dist	Sound	Elev	Dist	Sound	Elev
0+00				9.8	
(54)	0.4			12.1	
	0.9			12.2	
<u>11:25</u>	2.2		50	12.9	
	2.3			13.1	
50	3.1			13.1	
	3.1			13.0	
	3.7			13.1	
	4.2		2+00	14.2	
	4.3			13.6	
1+00	4.9			13.1	
	5.0			12.9	

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EC.

STA. 7+74.75; 0+00 = B/L; SOUND N. 87° E

Dist Sound Elev Dist Sound Elev

0+00 4.1 +11.0

6.7 1.6

10.4 5.3

12.0 6.9

12.1 7.0

12.5 7.4

12.6 7.5

13.0 7.9

13.0 7.9

2+00 13.1 8.0

1+00 3.4 +1.7 13.2 8.1

STA. 8+00; 0+00 = B/L; SOUND N. 87° E

0+00 10.1

11.1

11.3

50 12.1

12.2

12.3

12.9

12.8

2+00 13.1

2.7

1+00 4.1

8.7

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⑥

STA. 8+50; 0+00 = B/L; SOUND N. 87° E

Dist Sound Elev Dist Sound Elev

0+00 11.1

11.2

11.6

11.8

50 12.1

12.1

0.8 12.2

1.4 12.2

2.0 12.2

7.2 2+00 12.7

1+00 10.4

STA. 8+84.75 = B/L; 0+00 = B/L; SOUND N. 87° E

0+00 11.2 6.2

11.5 6.5

11.7 6.7

50 11.9 6.9

12.0 7.0

12.1 7.1

12.2 7.2

13.1 8.1

2+00 13.0 8.0

7.2 2.2

1+00 10.3 5.3

11.0 6.0

(5)

11.35

50

1+00

(5)

11.40

50

1+00

(50)

11.45

50

1+00

(50)

50

1+00

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5- STA. 9+00; P.O.C.; 0+00 = B/L SOUND RADIAL

D. Dist Sound Elev Dist Sound Elev

0	0+00		(60)	12.3	
	(6.0)			12.9	
				13.0	
	<u>10:20</u>			13.1	
	0.5		50	13.2	
	50	1.3		13.4	
		2.0			
		2.8			
		4.0			
		8.0			
1	1+00	11.4			

5- STA. 9+50 P.O.C. 0+00 = B/L SOUND RADIAL

D. 0+00

	(6.0)			12.9	
				13.1	
				13.3	
	<u>10:25</u>	1.0	50	13.4	
		1.5		13.6	
	50	2.1		13.9	
		3.0		14.0	
		3.5		14.1	
		4.9	2+00	14.1	
		10.0			
1	1+00	11.4			
		12.2			

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5- STA. 10+00 P.O.C.; 0+00 = B/L SOUND RADIAL

D. Dist Sound Elev Dist Sound Elev

	0+00				12.8
	(6.0)				13.2
		1.1			13.3
	<u>10:28</u>	1.5			13.6
		2.1	50		13.7
	50	2.4			14.0
		3.0			14.0
		3.0			14.1
		6.1			14.1
		10.2	2+00		14.2
1	1+00	12.0			

5- STA. 10+50; 0+00 = B/L SOUND RADIAL

D. 0+00

	(6.0)				13.3
					14.0
		1.4			14.0
	<u>10:30</u>	2.0	50		14.0
		2.2			14.0
	50	2.8			
		4.0			
		7.5			
		9.6			
		11.0			
1	1+00	12.0			
		12.9			

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57 STA. 11+00; P.O.C. 0+00 = B/L; SOUND RADIAL

D.	DIST	Sound	Elev	DIST	Sound	Elev
0	0+00				12.1	
	(65)				13.0	
		1.9			13.4	
	<u>1035</u>	2.3			13.6	
		3.1		50	14.0	
	50	3.5			14.0	
		4.1			14.1	
		7.5				
		10.0				
		10.3				
1	1+00	10.8				

58 STA. 11+50; P.O.C. 0+00 = B/L; SOUND RADIAL

D.	DIST	Sound	Elev	DIST	Sound	Elev
0	0+00				13.0	
	(60)	1.0			13.3	
		1.5			13.5	
		2.1		50	13.7	
	<u>10140</u>	2.6			13.9	
	50	3.1			14.0	
		5.0			14.2	
		8.6			14.5	
		9.5		2+00	15.2	
		10.6			15.1	
1	1+00	11.5				
		12.5				

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⑧

STA. 12+00 P.O.C. 0+00 = B/L; SOUND RADIAL

D.	DIST	Sound	Elev	DIST	Sound	Elev
0	0+00				12.5	
	(59)				13.0	
		1.0			13.2	
	<u>10145</u>	1.7			13.4	
		2.3		50	13.7	
	50	2.6			13.8	
		4.0			13.9	
		7.5			14.0	
		9.0			14.1	
		10.1		2+00	14.7	
1	1+00	11.6			15.0	

STA. 12+50; P.O.C. 0+00 = B/L; SOUND RADIAL

D.	DIST	Sound	Elev	DIST	Sound	Elev
0	0+00				13.0	
	(59)				13.3	
		0.6			13.4	
		1.5		50	13.5	
	<u>10147</u>	2.4			13.8	
	50	3.5			13.9	
		5.2			14.1	
		8.5			14.1	
		9.2		2+00	14.2	
		10.0				
1	1+00	11.6				
		12.4				

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57 STA. 13+00 POC. 0+00 = B/L; SOUND RADIAL

D. DIST Sound ELEV DIST SOURCE ELEV

0	0+00			11.6	
	(59)			12.2	
		1.6		13.0	
		2.0		13.2	
	<u>10:50</u>	2.5	50	13.4	
		3.0		13.5	
		4.7		13.6	
		6.8		14.0	
		9.0		14.1	
		9.9	2+00	14.1	
1	1+00	11.0			

57 STA. 13+00 POC; 0+00 = B/L; SOUND RADIAL

D. 0+00

	(59)			12.4	
		1.0		13.0	
		1.6		13.2	
	<u>10:55</u>	2.1	50	13.6	
		2.9		13.6	
		3.3		13.4	
		4.3		13.9	
		5.9		14.0	
		8.0	2+00	14.1	
		10.2			
1	1+00	11.4			
		11.9			

(Sta. 14+00 Pg. 12)

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CROSS SECTIONS SUNSET POINT FOR PROPOSED RIP-RAP.

NOTE: 0+00 = B/L. Distances out are to Lt + Rt. toward increasing Sta's.

Sta.	STA. 0+00	Elev
BM.		9.23
		9.2
3 RT		10.8
10 RT		11.1
25 RT		11.1

STA. 0+25

0		6.4
6 RT		10.8
25 RT		10.8

STA. 0+75

0		6.2
6 RT		10.8
25 RT		10.9

STA. 1+00

0		6.2
3 RT		7.0
7 RT		10.8
25 RT		10.7

L. & TR. S14. CB.  
L. Ramp Most  
W14. Ramp

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Sta	Elev
0	7.0
40 Lt.	4.1
10 Rt	8.0
12 Rt	10.1
25 Rt	10.1

STA. 2+00

0	5.5
11 Rt	8.0
15 Rt	10.1
25 Rt	10.1

STA 2+50

18 Rt	7.2
22 Rt	10.2
35 Rt	10.1

STA. 3+00

19 Rt	7.3
24 Rt	10.5
40 Rt	10.7

STA. 3+50

17 Rt	5.9
23 Rt	7.5
26 Rt	10.4
40 Rt	10.7

Sta	Elev
0	5.3
18 Rt	7.6
26 Rt	10.6
40 Rt	10.6

STA. 4+50

0	5.2
15 Rt	6.4
22 Rt	8.2
26 Rt	10.7
40 Rt	10.5

STA. 5+00

16 Rt	5.9
25 Rt	7.9
29 Rt	10.4
45 Rt	10.5

STA. 5+50

20 Rt	6.1
29 Rt	8.1
33 Rt	10.5
50 Rt	10.7

(10)

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(11)

Sta	Sta. 5+88 = BC Elev	Sta	Sta 8+00 Elev
5 Sta		Sta	
5 15 Rt	5.6	0	6.3
0 23 Rt	7.7	40 Lt	4.6
25 Rt	9.5	12 Rt	7.7
50 Rt	10.2	15 Rt	9.1
	STA. 6+50.25	35 Rt	9.8
21 Rt	7.4	50 Rt	10.3
24 Rt	9.2		STA. 8+50
50 Rt	9.9	0	7.5
	STA. 7+12.5	50 Lt	4.6
0	5.4	16 Rt	8.4
7 Rt	5.7	18 Rt	9.4
1 27 Rt	8.7	31 Rt	9.7
5 29 Rt	10.0	50 Rt	10.6
0 50 Rt	10.2		STA. 8+84.75 = BC Lt
	EC. STA. 7+74.75	0	8.3
0	6.8	50 Lt	4.8
8 Lt	5.5	30 Rt	9.4
20 Lt	4.7	50 Rt	10.6
9 Rt	10.0		STA. 9+00
40 Rt	10.0	0	7.6
		30 Lt	5.8
		5 Rt	8.7
		28 Rt	9.3
		45 Rt	10.6

(X Secs Cont'd Pg 13)

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STA. 14+00; 0+00=B/L; SOUND RADIAL

Dist	Sound Elev	Dist	Sound Elev
0+00			12.6
(5.8)			12.7
1.5			12.9
11:00	2.2	50	12.9
	3.0		13.0
50	3.6		13.4
	5.0		13.8
	7.1		13.9
	7.9	2+00	13.9
	9.0		13.9
1+00	11.1		
	12.0		

STA. 14+50; 0+00=B/L; SOUND RADIAL

Dist	Sound Elev	Dist	Sound Elev
0+00			11.7
(5.8)			12.0
1.5			12.0
11:05	2.4		12.4
	3.2	50	12.4
50	4.1		12.6
	5.3		13.0
	7.3		13.3
	8.2		13.3
	9.9	2+00	13.2
1+00	11.2		

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(12)

STA. 15+00; 0+00=B/L; SOUND RADIAL

Dist	Sound Elev	Dist	Sound Elev
0+00			13.2
(5.8)			13.4
0.5			13.7
11:10	2.0	50	14.0
	2.9		14.0
50	4.1		14.0
	5.0		
	7.1		
	8.2	2+00	
	9.5		
1+00	11.6		
	12.8		



(x-sec's Contd from)  
Pg. 11

12-18-59

(13)

Sta.	Elev
0	6.3
20 Lt	5.3
13 Rt	7.6
17 Rt	9.6
31 Rt	9.8
60 Rt	10.8

STA. 10+00

0	6.3
10 Lt	5.5
6 Rt	7.2
10 Rt	9.3
30 Rt	10.0
60 Rt	10.9

STA. 10+50

0	6.5
10 Lt	5.1
4 Rt	8.0
10 Rt	9.7
31 Rt	9.9
60 Rt	11.1

STA. 11+00

0	7.1
10 Lt	5.8
7 Rt	10.0
23 Rt	9.6
50 Rt	10.5

Sta	Elev
0	6.7
8 Rt	10.1
26 Rt	9.9
50 Rt	10.4

STA. 12+00

0	5.8
10 Lt	5.3
7 Rt	6.5
14 Rt	10.1
50 Rt	10.6

STA. 12+50

0	6.2
10 Lt	5.7
11 Rt	7.3
16 Rt	9.8
50 Rt	10.7

STA. 13+00

0	6.0
10 Lt	5.4
11 Rt	7.2
15 Rt	10.2
50 Rt	10.6

12-18-59

Sta.	STA. 13+50	Elev
0		5.4
8 Rt		6.2
13 Rt		9.8
50 Rt		10.3

STA. 14+00

0		6.5
10 Lt		5.2
3 Rt		7.0
5 Rt		8.8
25 Rt		9.9
50 Rt		10.4

STA. 14+50

0		6.8
10 Lt		5.6
2 Rt		7.2
5 Rt		9.1
25 Rt		10.2
50 Rt		10.7

STA. 15+00

0		7.9
10 Lt		5.9
3 Rt		8.7
22 Rt		10.1
50 Rt		10.9

12-22-59

STA 0+00 = B/L; SOUND RADIAL

Dist	Sound	Elev	Dist	Sound	Elev
0+00				9.1	
(43)				10.2	
				10.9	
1:00				11.1	
	0.6		50	11.2	

50	1.3
	2.0
	2.2
	2.5
	3.0
1+00	4.5

STA. 0+70; 0+00 = B/L; SOUND S. 36° W

0+00		10.6
(43)		10.9
	0.0	
1:05	0.9	50
	1.8	
50	2.2	
	2.8	
	3.0	
	3.4	
	3.9	
1+00	8.2	
	10.0	

12-22-59

STA. 1+00; 0+00=B/L; SOUND 5.36° W

Dist Sound Elev Dist Sound Elev

0+00

10.9

(43)

11.0

0.5

11.0

11.07

1.8

11.7

2.4

50 11.3

50

3.0

3.1

3.4

3.8

5.6

1+00 9.2

STA. 1+50; 0+00=B/L; SOUND 5.36° W

0+00

10.9

(43)

2.0

11.15

2.8

50

3.3

50

3.5

3.8

4.1

4.3

8.0

1+00 9.7

10.5

(15)

STA. 2+00=BCRT; 0+00=B/L; SOUND 5.36° W

Dist Sound Elev Dist Sound Elev

0+00

11.0

(43)

11.5

1.5

11.7

11.20

3.0

11.8

3.4

50 11.8

50

4.0

4.1

4.3

7.0

9.6

1+00 10.3

STA. 2+64.01; 0+00=B/L; SOUND RADIAL

0+00

10.7

(43)

11.0

11.1

11.30

3.0

50 11.1

4.1

11.2

50

4.2

11.3

5.0

11.5

6.4

12.0

9.1

2+00 12.0

9.8

1+00 10.0

10.3

12-22-59

STA. 3+28.02; 0+00=B/L; SOUND RADIAL

Dist	Sound	Elev	Dist	Sound	Elev
0+00			11.5		
(43)			12.2		
2.0			12.6		
11.35	3.5		12.7		
<u>      </u>	4.1	50	12.8		
50	4.6		12.9		
	5.0				
	6.7				
	9.1				
	10.4				
1+00	10.6				

STA. 3+92.03=EG.; 0+00=B/L; SOUND N. 33° 58' 30" W

Dist	Sound	Elev	Dist	Sound	Elev
0+00			12.4		
(43)			13.2		
1.5			13.5		
11.40	3.2	50	13.7		
<u>      </u>	3.9				
50	4.1				
	5.0				
	7.2				
	9.3				
	10.5				
1+00	11.3				
	11.5				

16

STA. 4+50; 0+00=B/L; SOUND N. 33° 58' 30" W

Dist	Sound	Elev	Dist	Sound	Elev
0+00			11.1		
(43)			12.0		
			12.6		
11.45	1.5		12.9		
<u>      </u>	2.6	50	13.1		
50	3.4				
	4.0				
	4.2				
	7.0				
	8.5				
1+00	10.2				

STA. 5+00; 0+00=B/L; SOUND N. 33° 58' 30" W

Dist	Sound	Elev	Dist	Sound	Elev
0+00			12.6		
(43)			13.0		
			13.0		
11.50		50	13.0		
<u>      </u>	1.2				
50	2.4				
	3.1				
	3.5				
	4.2				
	8.5				
1+00	10.3				
	11.5				

12-22-59

STA. 5+50; 0+00 = B/L; SOUND N. 33° 58' 30" W

Dist Sound Elev Dist Sound Elev

0+00

11.0

(43)

11.9

13.0

1:50

13.2

1.5

50 13.0

50 2.5

3.1

3.5

4.0

4.0

1+00 9.1

STA. 6+00; 0+00 = B/L; SOUND N. 33° 58' 30" W

0+00

12.2

(43)

12.5

13.1

1:55 1.5

50 13.1

2.5

50 3.1

3.5

3.9

4.0

5.0

1+00 8.3

11.5

17

STA. 6+50; 0+00 = B/L; SOUND N. 33° 58' 30" W

Dist Sound Elev Dist Sound Elev

0+00

11.6

(43)

12.3

1.2

13.1

2:00

2.1

13.5

3.0

50 13.5

50 3.3

3.5

4.0

4.0

4.7

1+00 9.0

STA. 7+00; 0+00 = B/L; SOUND N. 33° 58' 30" W

0+00

11.1

(43)

12.0

1.2

12.1

2:03

2.0

50 12.1

2.5

50 3.1

3.4

4.0

4.0

4.0

1+00 7.0

10.0

12-22-59

STA. 7+50: 0+00 = B/L; SOUND N. 33° 58' 30" W

DIST SOUND Elev DIST SOUND Elev

0+00

11.4

(43)

12.5

13.3

2:05 1.3

13.7

2.3

50

13.8

50

2.9

3.3

3.6

4.0

5.0

1+00

9.9

STA. 7+87.50+00 = B/L; SOUND N. 33° 58' 30" W

0+00

15.0

(43)

15.0

15.0

2:10

1.5

50

15.2

2.2

50

3.0

3.2

4.0

6.5

10.0

1+00

11.7

12.4

(18)

12-22-59

STA. 8+00 = END; 0+00 = B/L; SOUND N. 33° 58' 30" W

DIST SOUND Elev DIST SOUND Elev

0+00

12.7

(43)

14.0

14.8

2:15

2.0

15.0

2.5

50

15.0

50

3.0

3.3

3.9

5.0

9.7

1+00

11.4

CROSS SECTIONS DANA BASIN FOR PROPOSED

RIP-RAP (see sketch p. 1, 0+00 = B/L.

Sta.

STA. 0+00

Elev.

B.M.

11.00

Lt Disk &amp; Walk

To Fuel dock

(see sketch)

0

10.0

15 Rt.

10.5

18 Lt

9.3

23 Lt

7.2

34 Lt

4.8

12-21-59

STA.	STA. 0+70	Elev
0		10.0
14 Rt.		10.2
7 Lt.		9.9
14 Lt.		5.1

STA.	STA. 1+00	Elev
0		9.6
15 Rt.		10.1
6 Lt.		9.3
10 Lt.		4.9

STA.	STA. 1+50	Elev
0		9.3
15 Rt.		10.3
3 Lt.		9.0
9 Lt.		4.9

12-21-59

Sta.	STA. 2+00	Elev
0		9.3
15 Rt.		10.0
3 Lt.		8.4
7 Lt.		4.4

Sta.	STA. 2+64.01	Elev
0		9.7
15 Rt.		10.0
4 Lt.		8.5
12 Lt.		4.6
TP.		7.67

Sta.	STA. 3+28.02	Elev
0		6.1
22 Rt.		9.6
40 Rt.		10.2
10 Lt.		4.4

12-21-59

Sta.	STA. 3+92.03	Elev
0		8.2
13 RT		9.8
40 RT		10.7
13 Lt.		4.3

	STA. 4+50	
0		7.0
3 RT		7.1
6 RT		10.0
25 RT		10.9
14 Lt		6.3
23 Lt		4.3

	STA. 5+00	
0		7.4
12 RT		8.1
14 RT		10.9
25 RT		11.3
22 Lt		6.2
32 Lt		4.7

20

Sta.	STA. 5+50	Elev
0		9.0
18 RT		11.0
25 RT		11.3
4 Lt		8.0
5 Lt.		6.0
16 Lt		5.7
29 Lt		4.6

	STA. 6+00	
0		6.3
14 RT		9.3
28 RT		12.0
35 RT		12.2
13 Lt		4.4

	STA. 6+50	
0		6.4
14 RT		8.9
30 RT		11.5
40 RT		11.7
13 Lt		4.4



## SEC. ON L PT IN WING-WALL (2)

Sta.	STA. 7+00	Elev
0		7.0
6 Rt		8.5
16 Rt		9.7
24 Rt		11.1
30 Rt		11.4
14 Lt		4.4

## STA. 7+50

0		11.5
15 Rt		11.6
30 Rt		11.6
1 Lt		11.4
6 Lt		7.3
13 Lt		5.8

7+65 → Rt

(See Sketch) STA. 7+86 - Line + Wing-Wall +

0		10.78	TOP Wing-Wall
1 Rt.		11.6	
17 Rt		12.2	
0		6.9	Ground
15 Lt		4.4	

Sta.	STA. 7+87.5	Elev
0		11.7
4 Lt		10.81
4 Lt		5.8
14 Lt		4.3
17 Rt		12.2

## STA. 8+00 = PROPOSED END RIP-RAP

0		13.3	
16 Rt		12.77	Top Cb
7 Lt		13.1	
7 Lt		14.70	TOP Wing-Wall
9 Lt		14.78	TOP Wing-Wall
9 Lt		5.0	Ground

→ STA. 7+65 = 15" C.I DRAIN @ 90° TO B/L

25-4

3.45 F.L. 15" C.I.P.

TBM. on chis + Top Cb / Sta. 8+08 B/L.

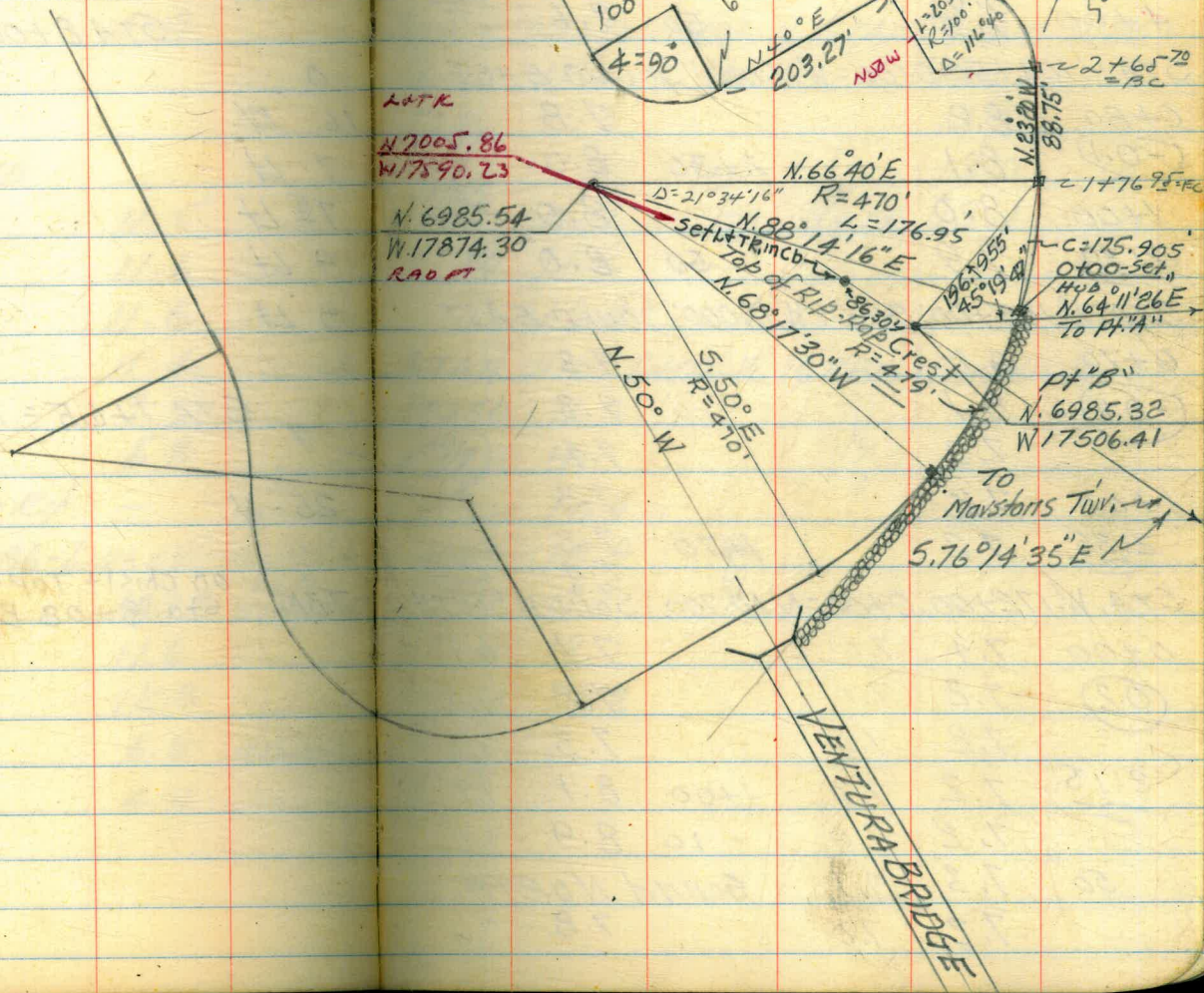
13.48

SURVEY FOR PROPOSED RIP-RAP VENTURA POINT

1-04-60

Stamka

See Levels  
Page 73



L&TK  
 N.7005.86  
 W17890.23  
 N.6985.54  
 W17874.30  
 ROAD

C=175.905  
 0100-set  
 Hub  
 N.64^{\circ}11'26"E  
 To Pt. "A"

VENURA BRIDGE

12-30-59

STA. N. 103+50; 0+00=W 17,000; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
3+50	9.0			7.4	
(0.1)	9.1		4+20	7.4	
2:20	9.2	ok		8.0	
	8.5			8.0	
4+00	8.0		50	7.6	
	7.5				

STA. N. 104+50; 0+00=W 17,000; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+80	8.2			7.8	
(-0.1)	8.1		1+30	8.0	
1+00	8.0	ok		8.0	ok
2:30	7.9		50	8.0	

STA. N. 105+00; 0+00=W 17,000; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+70	8.1			7.3	
(-0.2)	8.1			7.3	
	7.3	ok		7.4	ok
1+00	7.2			7.3	
2:35	7.2		1+70	7.2	
				7.4	

STA. W. 172+00; 0+00=N 10,700; SOUND SOUTH

DIST	Sound	Elev	DIST	Sound	Elev
0+00	7.4	7.2		7.1	6.9
(0.2)	7.2	7.0		7.2	7.0
	7.2	7.0		7.3	7.1
2:15	7.2	7.0	1+00	8.1	7.9
	7.2	7.0	10	8.9	8.7
50	7.3	7.1	SOUND NORTH		
	7.2	7.0		7.8	7.6

1-04-60

(23)

STA. N. 106+50; 0+00=W 15,980; SOUND WEST

DIST	Sound	Elev	DIST	Sound	Elev
11+90	11.1			11.0	
12+00	10.9			11.6	
(39)	10.8	ok	50	12.3	
11:25	10.8				

STA. N. 107+50; 0+00=W 16,060; SOUND WEST

DIST	Sound	Elev	DIST	Sound	Elev
6+10	11.4			11.0	
(38)	11.3			11.9	
11:15	11.0	ok		13.0	
	11.0		7+00	13.1	
50	11.2				
	10.9				

STA. N. 111+00; 0+00=W 16,280; SOUND WEST

DIST	Sound	Elev	DIST	Sound	Elev
12+50	11.2				
(37)	11.0				
	10.9				
10:55	10.9	ok			
	11.2				
13+00	12.1				
10	12.2				

12-31-59

STA. N. 111+50; 0+00 = W. 16,290; SOUND WEST

Dist Sound Elev Dist Sound Elev

8+00 14.7 7.0 (7.7) 14.5 6.8

(7.7) 14.5 6.8 14.7 7.0

14.5 6.8 14.8 7.1

9:45 14.8 7.1 16+00 15.0 7.3

15.7 8.0 14.8 7.1

50 16.0 8.3 20 14.6 6.9

15+40 14.5 6.8

9:50 50 14.3 6.6

(7.7) 14.4 6.7

STA. N. 113+00; 0+00 = W. 19,110; SOUND EAST

16+50 15.5 7.9 17+10 15.5 7.9

(7.6) 15.5 7.9

9:10 15.5 7.9

15.5 7.9

15.5 7.9

17+00 15.5 7.9

STA. N. 121+00; 0+00 = W. 19,200; SOUND EAST

4+30 15.5 7.8

(7.7) 15.7 8.0

50 15.5 7.8

14.5 6.8

9:30 15.4 7.7

4+80 16.0 8.3

1-07-60

STA. N. 111+50; 0+00 = W. 16,260; SOUND WEST

Dist Sound Elev

15+70 (11.2) 8.6

(26) 11.2 8.6

9:35 10.7 8.1

16+00 10.1 7.5

10.0 7.4

20 9.9 7.3

10.0 7.4

10.0 7.4

50 10.0 7.4

10.1 7.5

10.3 7.7

10.3 7.7

Contd. from F.B. 1-07-60  
 No. 122  
 STA. N. 113+00; 0+00 = W. 14200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	11.0	8.6	(24)	11.4	9.0
(24)	11.0	8.6	50	11.4	}
9:50	10.9	8.5		11.4	}
	10.9	8.5		11.4	}
	10.8	8.4		11.5	9.1
50	10.6	8.2		11.5	9.1
	10.5	8.1	3+00	11.6	9.2
	10.5	8.1		11.2	8.8
	10.5	8.1		11.0	8.6
	10.7	8.3		10.7	8.3
1+00	10.7	8.3		11.0	8.6
	10.5	8.1	50	10.9	8.5
	10.4	8.0		11.0	8.6
	10.5	8.1		11.1	8.7
	10.8	8.4		11.5	9.1
50	11.0	8.6		12.0	9.6
	11.1	8.7	4+00	12.0	9.6
	11.1	8.7		11.9	9.5
	11.3	8.9		12.0	9.6
	11.2	8.8		11.9	9.5
2+00	11.2	8.8		11.9	}
	11.2	8.8	50	11.9	}
	11.3	8.9		11.9	}
	11.3	8.9		12.0	9.6

STA. N. 113+00 - EAST (25)

Dist	Sound	Elev	Dist	Sound	Elev
(24)	11.3	8.9	(23)	10.1	7.8
	11.2	8.8		10.2	7.9
5+00	11.2	8.8	50	10.2	7.9
	11.1	8.7		9.9	7.6
	10.9	8.5	9:55	10.0	7.7
	10.8	8.4		10.0	}
	11.0	8.6		10.0	}
50	11.2	8.8	8+00	10.0	}
	11.0	8.6		9.9	7.6
	11.0	}		9.9	7.6
	11.0	}		10.1	7.8
	11.0	}		10.0	7.7
6+00	11.3	8.9	50	10.0	}
	10.9	8.5		10.0	}
	10.9	8.5		9.8	7.5
	10.5	8.1		9.8	7.5
	10.4	8.0		9.9	7.6
50	10.3	7.9	9+00	9.7	7.4
	10.3	7.9		9.6	7.3
	10.5	8.1		9.4	7.1
	10.4	8.0		9.4	7.1
	10.5	8.1		9.5	7.2
7+00	10.6	8.2	50	10.0	7.7
	10.4	8.0		10.2	7.9
	10.2	7.8		10.5	8.2

STA. N. 113+00 - EAST 1-07-60					
Dist	Sound	Elev	Dist	Sound	Elev
(23)	10.7	8.4	(2.2)	10.1	7.9
	10.9	8.6		10.1	7.9
10+00	10.9	8.6	50	10.2	8.0
	10.7	8.4	1000	10.2	}
	11.0	8.7		10.2	}
	10.9	8.6		10.2	}
	10.9	}		10.3	8.1
50	10.9	}	13+00	10.3	8.1
	10.8	8.5		10.3	8.1
	10.7	8.4		10.1	7.9
	10.4	8.1		10.2	8.0
	10.3	8.0		10.1	7.9
11+00	10.2	7.9	50	10.3	8.1
	10.2	7.9		10.4	8.2
	10.0	7.7		10.6	8.4
	10.1	7.8		10.8	8.6
	10.2	7.9		10.8	8.6
50	10.2	7.9	14+00	11.0	8.8
	10.1	7.8		11.0	}
	9.8	7.5		11.0	}
	9.7	7.4		11.0	}
	9.4	7.1		11.0	}
12+00	9.2	6.9	50	11.0	}
	9.3	7.0		11.1	8.9
	10.1	7.8		11.3	9.1

STA. N. 113+00 - EAST <span style="float: right;">(26)</span>					
Dist	Sound	Elev	Dist	Sound	Elev
(22)	11.3	9.1	1400	10.6	8.4
	11.3	9.1	(2.2)	10.2	8.0
15+00	11.2	9.0		8.1	5.9
	11.0	8.8		5.3	3.1
	11.0	8.8		4.3	2.1
	11.1	8.9	50	3.8	1.6
	11.2	9.0		3.6	1.4
50	11.2	9.0		3.4	1.2
	11.0	8.8		3.1	0.9
	10.5	8.3		2.8	0.6
	9.5	7.3	2+00	3.7	1.5
	7.3	5.1		2.2	0.0
16+00	3.2	1.0		2.0	+0.2
	2.5	0.3		1.9	+0.3
	1.9	+0.3		1.8	+0.4
SOUND WEST			50	1.5	+0.7
0+10	10.8	8.6	1015	1.3	+0.9
(22)	10.7	8.5		1.1	+1.1
	11.0	8.8		1.2	+1.0
1010	10.8	8.6		1.3	+0.9
50	10.8	8.6	3+00	1.1	+1.1
	10.9	8.7		1.1	+1.1
	10.9	}		1.0	+1.2
	10.9	}		0.8	+1.4
	10.8	8.6		1.0	+1.2

STA. N. 113+00 - WEST 1-07-60

Dist Sound Elev

50	1.1	+1.1
(22)	1.1	+1.1
	1.0	+1.2
	0.8	+1.4
	0.9	+1.3
4+00	0.9	}
	0.9	}
	1.0	+1.2
	1.0	+1.2
	1.1	+1.1
50	1.0	+1.2

1-07-60

(27)

STA. N. 114+00: 0+00 = W. 14,200; SOUND EAST

Dist Sound Elev Dist Sound Elev

0+00	10.2	8.1	(21)	10.4	8.3
(21)	10.2	}	50	10.5	8.4
	10.2	}		10.2	8.1
1023	10.4	8.3		10.1	8.0
<u>1023</u>	10.3	8.2		10.0	7.9
50	10.6	8.5		9.8	7.7
	10.5	8.4	3+00	9.6	7.5
	10.5	8.4		9.9	7.8
	10.6	8.5		9.8	7.7
	10.7	8.6		9.8	7.7
1+00	10.5	8.4		10.0	7.9
	10.6	8.5	50	10.2	8.1
	10.9	8.8		10.2	8.1
	10.8	8.7		10.2	8.1
	10.7	8.6		10.3	8.2
50	10.3	8.2		10.7	8.6
	10.2	8.1	4+00	10.9	8.8
	10.2	}		10.9	8.8
	10.2	}		11.1	9.0
	10.2	}		11.1	}
2+00	10.2	}		11.1	}
	10.3	8.2	50	11.0	8.9
	10.4	8.3		10.9	8.8
	10.4	8.3		10.8	8.7

STA. N. 114+00 - EAST 1-07-60

DIST	Sound	Elev	DIST	Sound	Elev
(21)	10.8	8.7	(21)	10.3	8.2
	10.7	8.6		10.1	8.0
5+00	10.6	8.5	50	10.0	7.9
	10.1	8.0		10.1	8.0
	10.3	8.2		10.1	}
	10.1	8.0		10.1	}
	10.3	8.2		10.0	7.9
50	10.5	8.4	8+00	10.0	}
	10.6	8.5		10.0	}
	10.6	8.5		9.9	7.8
	10.6	}		10.0	7.9
	10.6	}		10.0	7.9
6+00	10.6	}	50	9.9	7.8
	10.9	8.8		9.9	}
	11.1	9.0		9.9	}
	10.9	8.8		9.9	}
	10.9	}		9.8	7.7
50	10.9	}	9+00	9.8	}
	11.3	9.2		9.8	}
	11.1	9.0		9.7	7.6
	11.0	8.9		10.0	7.9
	11.0	}		10.2	8.1
7+00	11.0	}	50	10.4	8.3
	10.6	8.5		11.1	9.0
	10.5	8.4		11.2	9.1

STA. N. 114+00 - EAST

(28)

DIST	Sound	Elev	DIST	Sound	Elev
(20)	11.2	9.2	(20)	10.1	8.1
	11.1	9.1		10.1	8.1
10+00	10.8	8.8	50	10.0	8.0
	10.2	8.2		10.0	8.0
10:30	9.7	7.7		10.1	8.1
	9.3	7.3		10.1	8.1
	9.1	7.1		10.0	8.0
50	9.0	7.0	13+00	10.1	8.1
	9.0	7.0		10.0	8.0
	9.3	7.3		9.9	7.9
	9.7	7.7		9.9	7.9
	9.9	7.9		9.9	7.9
11+00	9.4	7.4	50	10.2	8.2
	9.9	7.9		10.9	8.9
	9.8	7.8		11.2	9.2
	9.9	7.9		11.4	9.4
	9.9	7.9		11.6	9.6
50	9.9	7.9	14+00	11.7	9.7
	10.0	8.0		11.6	9.6
	10.0	}		11.4	9.4
	10.0	}		11.4	9.4
	10.0	}		11.7	9.7
12+00	10.1	8.1	50	11.8	9.8
	10.2	8.2		11.9	9.9
	10.2	8.2		12.0	10.0



STA. N. 114+00 - EAST 1-07-60

Dist	Sound	Elev	Dist	Sound	Elev
(20)	12.0	10.0	50	4.9	2.9
	11.9	9.9	(20)	4.9	}
15+00	11.4	9.4		4.9	}
	11.3	9.3		5.0	3.0
	10.9	8.9		4.9	2.9
	9.0	7.0	2+00	4.8	2.8
	6.8	4.8		4.4	2.4
50	2.8	0.8		3.9	1.9
1035	2.0	0.0		3.6	1.6
<u>-</u>	1.4	+0.6		3.3	1.3
SOUND WEST			50	3.0	1.0
0+10	10.1	8.1		2.8	0.8
(20)	10.0	8.0		2.4	0.4
	9.9	7.9		2.2	0.2
	9.8	7.8		2.1	0.1
50	9.8	7.8	3+00	1.9	+0.1
1040	9.8	7.8		1.7	+0.3
<u>-</u>	9.6	7.6		1.5	+0.5
	9.4	7.4		1.2	+0.8
	8.1	6.1		1.6	+0.4
1+00	5.5	3.5	50	1.3	+0.7
	5.0	3.0		1.2	+0.8
	4.7	2.7		1.1	+0.9
	5.1	3.1	4+00	1.0	+1.0
	4.9	2.9		1.0	+1.0

STA. N. 114+00 - WEST

(29)

Dist	Sound	Elev	Dist	Sound	Elev
4+00	1.0	+1.0			
(20)	1.0	+1.0			

50

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STA. N. 115+00; 0+00 = W. 14200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	10.3	8.4	(1.8)	10.2	8.4
(1.9)	10.6	8.7	50	10.2	{
	10.4	8.5		10.2	{
<u>10:52</u>	10.7	8.8	<u>10:55</u>	10.1	8.3
	10.6	8.7		10.0	8.2
50	10.7	8.8		10.2	8.4
	10.7	8.8	3+00	10.0	8.2
	10.7	8.8		10.2	8.4
	10.4	8.5		10.1	8.3
	10.5	8.6		10.2	8.4
1+00	10.5	{		10.0	8.2
	10.5	{	50	10.0	8.2
	10.6	8.7		10.1	8.3
	10.7	8.8		10.0	8.2
	10.6	8.7		10.1	8.3
50	10.3	8.4		10.1	8.3
	9.9	8.0	4+00	10.3	8.5
	9.7	7.8		10.2	8.4
	9.7	7.8		10.3	8.5
	10.0	8.1		10.3	{
2+00	9.8	7.9		10.3	{
	9.9	8.0	50	10.1	8.3
	10.3	8.4		10.2	8.4
	10.2	8.3		10.3	8.5

STA. N. 115+00 - EAST

(30)

Dist	Sound	Elev	Dist	Sound	Elev
(1.8)	10.4	8.6	(1.8)	10.3	8.5
	10.4	8.6		10.2	8.4
5+00	10.9	9.1	50	10.3	8.5
	11.2	9.4		10.1	8.3
	11.3	9.5		10.0	8.2
	11.3	9.5		10.2	8.4
	11.2	9.4		10.0	8.2
50	10.9	9.1	8+00	9.9	8.1
	11.0	9.2		10.0	8.2
	11.0	9.2		9.8	8.0
	11.1	9.3		9.9	8.1
	11.3	9.5		10.0	8.2
6+00	11.2	9.4	50	9.9	8.1
	11.8	10.0		10.0	8.2
	11.7	9.9		9.6	7.8
	11.4	9.6	<u>11:00</u>	9.5	7.7
	11.1	9.3		9.3	7.5
50	10.8	9.0	9+00	9.2	7.4
	10.5	8.7		9.0	7.2
	10.9	9.1		9.0	7.2
	10.7	8.9		9.6	7.8
	10.4	8.6		10.1	8.3
7+00	10.1	8.3	50	10.2	8.4
	10.1	8.3		10.2	8.4
	10.2	8.4		10.1	8.3

STA. N. 115+00 - EAST 1-07-60

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(7.8)	9.9	8.1	(18)	10.1	8.3
	9.6	7.8		10.3	8.5
10+00	9.4	7.6	50	10.3	8.5
	9.4	7.6		10.2	8.4
	9.4	7.6		10.3	8.5
	9.3	7.5	<u>11:05</u>	10.5	8.7
	9.7	7.9		10.6	8.8
50	9.6	7.8	13+00	10.8	9.0
	10.0	8.2		10.7	8.9
	9.6	7.8		10.8	9.0
	9.3	7.5		10.6	8.8
	9.1	7.3		10.8	9.0
11+00	9.1	7.3	50	10.7	8.9
	9.3	7.5		10.8	9.0
	9.0	7.2		10.6	8.8
	9.0	7.2		10.5	8.7
	8.9	7.1		10.5	8.7
50	9.1	7.3	14+00	10.4	8.6
	9.4	7.6		10.3	8.5
	9.8	8.0		10.5	8.7
	10.0	8.2		10.8	9.0
	10.1	8.3		11.2	9.4
12+00	10.0	8.2	50	10.9	9.1
	10.1	8.3		10.8	9.0
	10.0	8.2		11.1	9.3

STA. N. 115+00 - EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(7.8)	11.9	10.1	50	3.5	1.8
	12.1	10.3	(17)	3.7	2.0
15+00	11.8	10.0		4.0	2.3
	9.7	7.9		4.0	2.3
	7.0	5.2		4.5	2.8
<u>11:08</u>	4.3	2.5	2+00	4.9	3.2
	3.3	1.5	<u>11:20</u>	4.9	3.2
50	3.0	1.2		5.0	3.3
	2.7	0.9		5.1	3.4
	1.9	0.1		5.0	3.3
SOUND WEST			50	4.9	3.2
0+10	10.1	8.4		4.6	2.9
(1.7)	10.0	8.3		4.0	2.3
	9.8	8.1		3.5	1.8
<u>11:18</u>	9.5	7.8		3.3	1.6
50	9.0	7.3	3+00	3.1	1.4
	8.0	6.3		2.8	1.1
	3.0	1.3		2.7	1.0
	1.7	0.0		2.4	0.7
	1.3	+0.4		2.1	0.4 (0.4)
1+00	1.2	+0.5	50	2.1	0.4
	1.5	+0.2		1.9	0.2
	2.1	0.4		1.8	0.1
	3.2	1.5		1.4	+0.3
	3.4	1.7	4+00	1.1	+0.6
				1.0	+0.7
				0.9	+0.8

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STA. N. 116+00: 0+00 = W. 14,200; SOUND EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	10.2	8.5	(17)	9.6	7.9
(17)	10.2	8.5	50	9.7	8.0
	10.0	8.3		10.0	8.3
<u>1130</u>	10.0	8.3		10.2	8.5
	9.9	8.2		10.1	8.4
50	9.9	8.2		10.1	8.4
	10.0	8.3	3+00	10.2	8.5
	10.0			10.1	8.4
	10.0			10.2	8.5
	10.0			10.1	8.4
1+00	10.0			10.2	8.5
	10.0		50	10.1	8.4
	10.0			10.1	8.4
	10.0			10.2	8.5
	10.0			10.5	8.8
50	10.0			10.6	8.9
	9.9	8.2	4+00	10.7	9.0
	9.6	7.9		10.3	8.6
	9.4	7.7		10.0	8.3
	9.3	7.6		10.0	
2+00	9.2	7.5		10.0	
	9.3	7.6	50	10.0	
	9.4	7.7		10.0	
	9.6	7.9		10.1	8.4

STA. N. 116+00 - EAST

DIST SOUND ELEV DIST SOUND ELEV

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(17)	10.2	8.5	(17)	10.2	8.5
	10.2	8.5		10.1	8.4
5+00	10.3	8.6	50	10.1	
<u>1135</u>	10.2	8.5		10.1	
-	10.2	8.5		10.1	
	10.3	8.6		10.2	8.5
	10.5	8.8		10.1	8.4
50	10.5	8.8	8+00	10.0	8.3
	10.6	8.9		10.2	8.5
	10.7	9.0		9.8	8.1
	11.0	9.3		9.5	7.8
	10.9	9.2		9.7	8.0
6+00	10.9	9.2	50	9.7	8.0
	10.5	8.8		9.6	7.9
	10.2	8.5		9.5	7.8
	10.1	8.4		9.3	7.6
	10.1			9.2	7.5
50	10.1		9+00	9.2	7.5
	10.0	8.3		9.3	7.6
	10.1	8.4		9.3	
	10.3	8.6		9.2	7.5
7+00	10.3	8.6	50	9.1	7.4
	10.2	8.5		9.1	
	10.2	8.5		9.1	

STA. N 116+00 - EAST 1-07-60

Dist	Sound	Elev	Dist	Sound	Elev
(17)	9.0	7.3	(17)	11.0	9.3
	9.0	7.3		11.1	9.4
10+00	9.0	7.3	50	11.2	9.5
	9.1	7.4		11.1	9.4
	9.2	7.5		10.8	9.1
	9.2	7.5		10.6	8.9
	9.2	7.5		10.4	8.7
50	9.3	7.6	13+00	10.6	8.9
	9.5	7.8		10.7	9.0
<u>11:40</u>	9.7	8.0		10.6	8.9
	9.8	8.1		10.5	8.8
	9.7	8.0		10.3	8.6
11+00	9.8	8.1	50	10.1	8.4
	10.0	8.3		10.2	8.5
	9.9	8.2		10.2	8.5
	9.6	7.9		10.3	8.6
	9.5	7.8		10.2	8.5
50	9.5	7.8	14+00	10.1	8.4
	9.4	7.7		10.0	8.3
	9.3	7.6		9.9	8.2
	9.2	7.5		9.9	8.2
	9.2	7.5		10.0	8.3
12+00	10.0	8.3	50	10.0	8.3
	10.7	9.0		9.5	7.8
	11.0	9.3		5.9	4.2

STA. N 116+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
(17)	3.1	1.4	(17)	8.5	6.8
	2.7	1.0		5.3	3.6
15+00	4.0	2.3	50	1.7	0.0
	4.4	2.7		1.1	+0.6
	5.5	3.8	<u>11:53</u>	0.5	+1.2
	6.2	4.5		0.4	+1.3
	6.7	5.0		0.5	+1.2
50	7.2	5.5	1+00	0.6	+1.1
	8.1	6.4		1.0	+0.7
	8.3	6.6		1.2	+0.5
	8.5	6.8		1.2	+0.5
	8.4	6.7		1.6	+0.1
16+00	8.3	6.6	50	1.6	+0.1
	8.3	6.6		2.0	0.3
<u>11:45</u>	8.0	6.3		2.3	0.6
	7.5	5.8		2.5	0.8
	6.7	5.0		3.4	1.7
50	5.4	3.7	2+00	4.2	2.5
	3.7	2.0		4.3	2.6
	2.5	0.8		4.5	2.8
	2.0	0.3		5.0	3.3
	1.3	+0.4		5.2	3.5
<u>SOUND WEST</u>			50	5.0	3.3
0+10	10.0	8.3		5.0	3.3
	9.9	8.2		4.9	3.2

(33)

STA. N. 116+00 - WEST 1-07-60

DIST	Sound	Elev
(12)	4.9	3.2
	4.6	2.9
3+00	4.3	2.6
	4.0	2.3
	3.7	2.0
<u>1200</u>	3.0	1.3
<u>50</u>	2.8	1.1
	2.4	0.7
	2.3	0.6
	2.2	0.5
	1.9	0.2
	1.4	+0.3
4+00	1.1	+0.6

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STA. N. 117+00; 0+00 = W. 14,200; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+00	8.8	6.9	(19)	9.7	7.8
(19)	9.2	7.3	50	9.8	7.9
	9.2	7.3		9.7	7.8
<u>1520</u>	9.3	7.4		9.8	7.9
	9.4	7.5		9.9	8.0
50	9.6	7.7		9.8	7.9
	9.8	7.9	3+00	10.2	8.3
	9.8	7.9		10.6	8.7
	9.8	7.9		10.3	8.4
	9.9	8.0		10.7	8.8
1+00	9.8	7.9		10.8	8.9
	9.8	}	50	10.5	8.6
	9.8	}		10.2	8.3
	9.7	7.8		10.1	8.2
	9.7	7.8		10.0	8.1
50	9.3	7.4		10.0	}
	9.1	7.2	4+00	10.0	}
	9.1	7.2		10.1	8.2
	9.2	7.3		10.1	}
	9.2	7.3		10.1	}
2+00	9.4	7.5		10.1	}
	9.5	7.6	50	10.1	}
	9.4	7.5		10.1	}
	9.6	7.7		10.2	8.3

STA. N. 117+00 - EAST 1-07-60

Dist	Sound	Elev	Dist	Sound	Elev
(19)	10.2	8.3	(19)	10.2	8.3
	10.2	}		10.2	}
5+00	10.2	}	50	10.2	}
<u>11.25</u>	10.2	}		10.1	8.2
	10.3	8.4		9.5	7.6
	10.3	}		9.2	7.3
	10.3	}		9.6	7.7
50	10.3	}	8+00	9.4	7.5
	10.3	}		9.3	7.4
	10.2	8.3		10.1	8.2
	10.1	8.2		9.8	7.9
	10.2	8.3		9.2	7.3
6+00	10.0	8.1	50	9.3	7.4
	10.1	8.2		9.2	7.3
	10.1	8.2		9.2	}
	10.2	8.3		9.2	}
	10.1	8.2		9.2	}
50	10.2	8.3	9+00	9.3	7.4
	10.2	}		9.3	7.4
	10.2	}		9.5	7.6
	10.2	}		9.4	7.5
	10.2	}		9.8	7.9
7+00	10.2	}	50	9.8	7.9
	10.2	}		10.4	8.5
	10.2	}		10.2	8.3

STA. N. 117+00 - EAST (3)

Dist	Sound	Elev	Dist	Sound	Elev
(20)	10.3	8.3	(20)	11.5	9.5
	10.2	8.2		11.2	9.2
10+00	10.2	}	50	11.1	9.1
	10.2	}		11.3	9.3
	10.2	}	<u>11.30</u>	11.3	9.3
	10.2	}		11.2	9.2
	10.1	8.1		11.2	}
50	9.8	7.8	13+00	11.2	}
	9.5	7.5		11.3	9.3
	9.4	7.4		11.3	9.3
	9.6	7.6		11.2	9.2
	9.7	7.7		11.0	9.0
11+00	9.4	7.4	50	10.6	8.6
	9.4	7.4		10.4	8.4
	9.3	7.3		10.3	8.3
	9.2	7.2		10.3	8.3
	9.1	7.1		10.1	8.1
50	9.0	7.0	14+00	10.1	8.1
	9.1	7.1		9.6	7.6
	9.1	7.1		8.8	6.8
	9.4	7.4		6.9	4.9
	9.9	7.9		3.7	1.7
12+00	10.3	8.3	50	2.8	0.8
	11.2	9.2		2.2	0.2
	11.5	9.5		1.8	0.2

STA. N. 117+00 - EAST 1-07-60

DIST	Sound	Elev	DIST	Sound	Elev
(20)	1.4	+0.6	(20)	8.3	6.3
	1.1	+0.9		8.6	6.6
15+00	0.9	+1.1	50	8.0	6.0
	0.6	+1.4		6.9	6.9
<u>11:35</u>	0.6	+1.4		5.3	3.3
	0.4	+1.6		3.3	1.3
	0.5	+1.5		2.0	0.0
50	0.5	+1.5	18+00	0.6	+1.4
	0.5	}	SOUND WEST		
	0.5	}	0+00	6.7	4.6
	0.6	+1.4	(2.1)	4.6	2.5
	1.0	+1.0		2.4	0.3
16+00	1.3	+0.7	<u>1:45</u>	2.1	0.0
	1.4	+0.6	50	1.6	+1.5
	2.9	0.9		1.2	+0.9
	6.0	4.0		1.1	+1.0
	6.8	4.8		1.1	+1.0
50	7.2	5.2		1.3	+0.8
	8.0	6.0	1+00	0.9	+1.2
	8.2	6.2		1.0	+1.1
	8.5	6.5		1.0	+1.1
	8.9	6.9		1.2	+0.9
17+00	8.9	}		1.3	+0.8
	8.9	}	50	1.6	+0.5
	8.6	6.6		1.7	+0.4

Through Slough

STA. N. 117+00 - WEST

DIST	Sound	Elev	DIST	Sound	Elev
(21)	1.9	+0.2			
	2.0	+0.1			
	2.1	0.0			
2+00	2.2	0.1			
	2.3	0.2			
	3.2	1.1			
	4.1	2.0			
	5.0	2.9			
50	5.3	3.2			
	6.1	4.0			
	6.2	4.1			
	6.2	}			
	6.2	}			
3+00	6.0	3.9			
	5.9	3.8			
	5.3	3.2			
	4.9	2.8			
	4.4	2.3			
50	3.9	1.8			
	3.0	0.9			
	2.1	0.0			
	1.4	+0.7			
	1.1	+1.0			
4+00					



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STA. N. 118+00, 0+00=W, 14200, SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.3	1.2	(22)	10.3	8.1
(21)	6.0	3.9	50	10.3	8.1
	8.3	6.2		10.4	8.2
<u>11.57</u>	9.2	7.1		10.3	8.1
	9.5	7.4		10.4	8.2
50	9.5	7.4		10.3	8.1
	9.5	7.4	3+00	10.0	7.8
	9.2	7.1		10.0	7.8
	9.2	{		10.1	7.9
	9.2	{		10.0	7.8
1+00	9.5	7.4		10.5	8.3
	9.6	7.5	50	10.4	8.2
	10.0	7.9	<u>2:00</u>	10.5	8.3
	10.0	{	-	10.5	8.3
	10.0	{		10.6	8.4
50	10.0	{		10.5	8.3
	10.1	8.0	4+00	10.4	8.2
	10.2	8.1		10.5	8.3
	10.3	8.2		10.6	8.4
	10.5	8.4		10.6	{
2+00	10.4	8.3	50	10.6	{
	10.3	8.2	50	10.6	{
	10.3	8.2		10.8	8.6
	10.2	8.1		10.8	8.6

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STA. N. 118+00-EAST

Dist	Sound	Elev	Dist	Sound	Elev
(22)	10.9	8.7	(23)	10.0	7.7
	11.0	8.8		9.5	7.2
5+00	11.2	9.0	50	9.3	7.0
	11.1	8.9		9.7	7.4
	11.0	8.8		9.3	7.0
	10.5	8.3		9.4	7.1
	10.2	8.0		9.6	7.3
50	10.0	7.8	8+00	9.5	7.2
	10.1	7.9		9.6	7.4
	10.1	7.9		9.9	7.7
	10.2	8.0		9.9	7.7
	10.3	8.1		10.1	7.8
6+00	10.5	8.3	50	10.5	8.2
	10.6	8.4		10.5	8.2
	11.0	8.8		10.9	8.6
	11.2	9.0		10.9	8.6
	11.2	9.0		10.8	8.5
50	11.3	9.1	9+00	10.8	8.5
	11.2	9.0		11.0	8.7
	11.2	9.0		10.9	8.6
	11.0	8.8		10.8	8.5
	10.9	8.7	50	10.9	8.6
7+00	10.5	8.3	50	10.9	8.6
	10.2	8.0		10.8	8.5
	10.0	7.8		10.7	8.4

STA. N. 118+00 - EAST 1-07-60

DIST	Sound	Elev	DIST	Sound	Elev
(24)	10.8	8.4	(24)	11.0	8.6
	10.9	8.5		11.0	8.6
10+00	11.0	8.6	50	11.1	8.7
	11.0	8.6		11.2	8.8
<u>21.10</u>	10.8	8.4		11.3	8.9
	10.6	8.2		12.0	9.6
	10.5	8.1		12.2	9.8
50	10.5	}	13+00	12.5	10.1
	10.5			12.8	10.4
	10.5			12.7	10.3
	10.6	8.2		12.6	10.2
	10.6	8.2		12.5	10.1
11+00	10.5	8.1	50	12.4	10.0
	10.5	8.1		12.2	9.8
	10.4	8.0		10.3	7.9
	10.3	7.9		7.2	4.8
	10.3	7.9		3.3	0.9
50	10.2	7.8	14+00	2.5	0.1
	10.1	7.7		1.9	+0.5
	10.0	7.6		1.1	+1.3
	10.2	7.8	SOUND WEST		
	10.4	8.0	0+10	2.9	0.5
12+00	10.5	8.1	(24)	2.4	0.6
	10.8	8.4		2.3	+0.1
	11.0	8.6	<u>21.15</u>	2.2	+0.2

STA. N. 118+00 - WEST

DIST	Sound	Elev	DIST	Sound	Elev
50	2.2	+0.2	3+00	6.8	4.4
(24)	2.1	+0.3	(24)	7.0	4.6
<u>21.15</u>	2.4	0.0		7.1	4.7
	2.0	+0.4		6.7	4.3
	2.1	+0.3		6.2	3.8
1+00	2.0	+0.4	50	5.6	3.2
	1.8	+0.6		5.0	2.6
	1.8	+0.6		3.5	1.1
	1.7	+0.7		2.5	0.1
	1.7	+0.7			
50	1.8	+0.6	4+00		
	2.0	+0.4			
	2.0	+0.4			
	2.1	+0.3			
	2.5	0.1			
2+00	2.4	0.0			
	2.5	0.1			
	2.7	0.3			
	3.2	0.8			
	4.0	1.6			
50	4.7	2.3			
	5.1	2.7			
	5.7	3.3			
	6.0	3.6			
	6.3	3.9			

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STA. N. 119+00; 0+00 = N. 14,200; SOUND EAST					
Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.6	0.1	(25)	11.3	8.8
(25)	2.7	0.2	50	11.0	8.5
	3.3	0.8		11.0	8.5
2:25	4.5	2.0		10.8	8.3
	6.4	3.9		10.7	8.2
50	8.6	6.1		10.4	7.9
	9.4	6.9	3+00	10.3	7.8
	9.5	7.0		10.2	7.7
	9.9	7.4		10.3	7.8
	10.1	7.6		10.4	7.9
1+00	10.2	7.7		11.1	8.6
	10.8	8.3	50	10.8	8.3
	11.1	8.6		10.8	8.3
	11.0	8.5		10.5	8.0
	10.9	8.4		10.5	
50	10.9	8.4		10.5	
	11.0	8.5	4+00	10.5	
	11.1	8.6		10.6	8.1
	11.2	8.7		10.7	8.2
	11.3	8.8		10.7	8.2
2+00	11.6	9.1		10.8	8.3
	11.5	9.0	50	10.9	8.4
	11.7	9.2		10.4	7.9
	11.6	9.1		10.7	7.2

STA. N. 119+00 - EAST

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Dist	Sound	Elev	Dist	Sound	Elev
(25)	10.4	7.9	(25)	10.4	7.9
	10.4	7.9		10.4	7.9
5+00	10.3	7.8	50	10.0	7.5
	10.1	7.6		9.7	7.2
	10.2	7.7		9.8	7.3
	10.2			9.8	
	10.2			9.8	
50	10.3	7.8	8+00	9.8	
	10.3	7.8		10.4	7.9
	10.9	8.4		11.0	8.5
	10.8	8.3		10.9	8.4
	10.8			11.0	8.5
6+00	10.8		50	11.0	8.5
	11.1	8.6		11.1	8.6
2:30	11.1	8.6		11.1	8.6
	10.8	8.3		11.2	8.7
	10.8	8.3		11.2	8.7
50	10.4	7.9	9+00	11.1	8.6
	10.7	8.2		11.1	
	10.3	7.8		11.1	
	10.2	7.7		11.1	
	10.0	7.5		11.1	
7+00	9.8	7.3	50	11.1	
	10.0	7.5		11.1	
	10.0	7.5		11.1	

STA. N. 119+00 - EAST 1-07-60

Dist	Sound	Elev	Dist	Sound	Elev
(2.6)	11.4	8.8	(2.6)	12.0	9.4
	11.3	8.7		12.0	9.4
10+00	11.3	8.7	50	11.6	9.0
	11.1	8.5	<u>2.35</u>	11.6	9.0
	11.0	8.4		11.5	8.9
	11.0	8.4		11.3	8.7
	10.9	8.3		11.2	8.6
50	10.9	8.3	13+00	11.1	8.5
	11.0	8.4		9.6	7.0
	11.1	8.5		8.2	5.6
	11.1	8.5		5.1	2.5
	11.0	8.4		3.1	0.5
11+00	11.1	8.5	50	2.4	+0.2
	11.1	8.5		2.1	+0.5
	10.9	8.3		1.4	+1.2
	10.8	8.2	SOUND WEST		
	10.8	8.2	0+10	2.8	0.2
50	11.0	8.4	(2.6)	2.8	0.2
	11.3	8.7		2.7	0.1
	12.0	9.4	<u>2.42</u>	2.9	0.3
	12.0	9.4	50	2.5	+0.1
	12.0	9.4		2.5	+0.1
12+00	11.9	9.3		2.3	+0.3
	11.8	9.2		2.3	{
	11.9	9.3		2.3	{

STA. N. 119+00 - WEST

Dist	Sound	Elev	Dist	Sound	Elev
1+00	2.3	+0.3	50	6.0	3.4
(2.6)	2.2	+0.4	(2.6)	5.0	2.4
	2.5	+0.1		2.9	0.3
	2.7	0.1		1.9	+0.7
	2.8	0.2	<u>2.45</u>	1.1	+1.5
50	2.8	0.2	4+00		
	2.9	0.3			
	2.7	0.1			
	2.7	0.1			
	2.9	0.3			
2+00	3.1	0.5			
	3.2	0.6			
	3.8	1.2			
	4.1	1.5			
	4.4	1.8			
50	5.0	2.4			
	5.2	2.6			
	6.0	3.4			
	6.1	3.5			
	6.6	4.0			
3+00	7.0	4.4			
	7.2	4.6			
	7.2	4.6			
	6.8	4.2			
	6.7	4.1			

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STA. N. 120+00; 0+00 = W. 14,200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.0	0.3	(27)	10.9	8.2
(27)	3.1	0.4	50	11.0	8.3
	3.3	0.6		11.0	8.3
<u>2:50</u>	3.4	0.7		11.1	8.4
	3.3	0.6		11.2	8.5
50	3.5	0.8		11.2	8.5
	6.0	3.3	3+00	11.3	8.6
	7.9	5.2		11.3	}
	10.5	7.8		11.3	}
	10.9	8.2		11.6	8.9
1+00	10.9	8.2		11.5	8.8
	11.0	8.3	50	11.5	}
	10.9	8.2		11.5	}
	10.9	8.2		11.5	}
	11.0	8.3		11.4	8.7
50	11.0	}		11.2	8.5
	11.0	}	4+00	11.1	8.4
	11.0	}		11.1	}
	11.1	8.4		11.1	}
	11.0	8.3		11.1	}
2+00	10.9	8.2		10.9	8.2
	10.6	7.9	50	10.8	8.1
	10.9	8.2		10.5	7.8
	10.9	8.2		10.6	7.9

STA. N. 120+00 - EAST

(41)

Dist	Sound	Elev	Dist	Sound	Elev
(27)	10.6	7.9	(27)	10.5	7.8
	10.8	8.1		10.4	7.7
5+00	10.9	8.2	50	10.5	7.8
	10.9	8.2		10.3	7.6
	11.0	8.3		10.2	7.5
	10.9	8.2		10.1	7.4
	11.1	8.4		10.2	7.5
50	11.0	8.3	8+00	10.3	7.6
	10.9	8.2		10.4	7.7
<u>2:55</u>	11.1	8.4		10.5	7.8
	11.0	8.3		11.0	8.3
	11.0	8.3		10.9	8.2
6+00	11.1	8.4	50	10.8	8.1
	11.2	8.5		11.0	8.3
	11.1	8.4		11.1	8.4
	11.0	8.3		11.1	8.4
	11.0	8.3		11.3	8.6
50	10.7	8.0	9+00	11.3	8.6
	11.0	8.3		11.2	8.5
	10.8	8.1		11.2	8.5
	10.8	8.1		11.3	8.6
	11.0	8.3		11.2	8.5
7+00	10.8	8.1	50	11.2	8.5
	11.0	8.3		11.2	8.5
	10.9	8.2		11.0	8.3

STA. N. 120+00 - EAST 1-07-60

Dist	Sound	Elev	Dist	Sound	Elev
(28)	11.1	8.3	(28)	13.0	10.2
	11.0	8.2		12.9	10.1
10+00	11.0	8.2	50	12.5	9.7
	11.1	8.3	3:00	12.4	9.6
	11.0	8.2		12.0	9.2
	11.2	8.4		11.0	8.2
	11.1	8.3		7.0	4.2
50	11.1	8.3	13+00	3.2	0.4
	11.2	8.4		2.5	+0.3
	11.3	8.5		1.9	+0.9
	11.3	8.5		1.5	+1.3
	11.5	8.7	SOUND WEST		
11+00	11.5	8.7	0+10	3.1	0.3
	11.6	8.8	(28)	3.0	0.2
	11.5	8.7		2.8	0.0
	11.4	8.6	3:05	2.6	+0.2
	12.0	9.2	50	2.6	+0.2
50	12.1	9.3		2.6	+0.2
	12.2	9.4		2.5	+0.3
	12.3	9.5		2.7	+0.1
	12.2	9.4		2.6	+0.2
	12.4	9.6	1+00	2.9	0.1
12+00	13.0	10.2		2.8	0.0
	13.1	10.3		3.0	0.2
	13.2	10.4		3.1	0.3

STA. N. 120+00 - WEST

Dist	Sound	Elev	Dist	Sound	Elev
(28)	3.1	0.3	(28)	2.5	+0.3
50	3.1	0.3	4+00	1.6	+1.2
	3.2	0.4	(STA. N. 121-1126 FB 124)		
	3.2	0.4			
	3.5	0.7			
	3.7	0.9			
2+00	4.2	1.4			
	4.5	1.7			
	5.0	2.2			
	5.4	2.6			
	6.0	3.2			
50	6.0	3.2			
	6.2	3.4			
	6.3	3.5			
	6.6	3.8			
	6.8	4.0			
3+00	7.0	4.2			
	7.1	4.3			
	7.3	4.5			
	7.4	4.6			
	7.3	4.5			
50	7.0	4.2			
	6.2	3.4			
	5.5	2.7			
	4.1	1.3			

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STA. N. 127+00; 0+00 = W. 14,200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.2		(53)	5.3	
(53)	3.2		50	7.6	
	3.1			10.8	
<u>9.45</u>	3.0			11.1	
-	2.9			11.2	
50	2.9			11.4	
	2.9		3+00	11.7	
	2.9			12.1	
	2.9			12.3	
	3.0			12.4	
1+00	2.9			12.7	
	2.9		50	12.9	
	3.0			12.9	
	3.1			12.9	
	3.1			12.5	
50	3.1			12.9	
	2.8		4+00	12.6	
	2.9			12.4	
	2.9			12.3	
	2.9			12.6	
2+00	3.0			12.7	
	3.2		50	12.8	
	4.2			12.6	
	4.7			13.0	

(43)

STA. N. 127+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
(52)	13.5		(52)	12.2	
	13.4			12.3	
5+00	12.9		50	12.4	
	12.3			12.6	
	12.0			12.9	
	12.0			12.9	
	12.4			12.9	
50	12.5		8+00	12.9	
	13.0			12.9	
	13.1			13.1	
	13.1			13.1	
	13.1			13.0	
6+00	12.9		50	13.1	
	12.9			13.2	
	12.7			13.3	
<u>9.50</u>	12.4			13.1	
-	12.4			12.9	
50	12.4		9+00	13.0	
	12.4			13.0	
	12.4			13.0	
	12.3			13.1	
	12.2			13.2	
7+00	12.1		50	13.3	
	12.2			13.6	
	12.3			13.4	

STA. N. 127+00 - EAST 1-11-60

Dist	Sound	Elev	Dist	Sound	Elev
(52)	13.0		(51)	4.1	
	11.1			3.9	
10+00	6.9		50	3.8	
	5.3			3.7	
	5.0		<u>9.55</u>	3.6	
	5.0			3.6	
	4.9			3.5	
50	4.6		13+00	3.4	
	4.3			3.2	
	4.2			3.0	
	4.6			2.8	
	4.7			2.7	
11+00	4.4		50	2.5	
	4.2			2.4	
	4.1			2.3	
	5.0			2.2	
	4.3			2.1	
50	4.1		14+00	2.1	
	4.1			2.0	
	4.1			1.9	
	4.2			1.7	
	4.1			1.2	
12+00	4.1		50	1.1	
	4.1		SOUND WEST		
	4.1		OHIO	2.9	

STA. N. 127+00 - WEST (44)

Dist	Sound	Elev	Dist	Sound	Elev
(49)	2.9		(49)	4.0	
	2.9			4.1	
	3.0			4.3	
50	3.1		3+00	5.2	
<u>10.03</u>	3.1			6.2	
	3.1			7.4	
	3.1		<u>10.05</u>	9.8	
	3.1			10.9	
1+00	3.1		50	11.6	
	3.1			11.8	
	3.2			12.0	
	3.2			11.9	
	3.2			11.6	
50	3.1		4+00	11.2	
	3.1			10.9	
	3.2			10.1	
	3.3			8.6	
	3.3			5.9	
2+00	3.4		50	3.6	
	3.3			2.4	
	3.3			1.3	
	3.3				
	3.4				
50	3.5				
	3.6				



1-11-60

STA. N. 128+00; 0+00 = W. 14,200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.5	+2.3	(48)	3.2	+1.6
(48)	2.9	+2.4	50	4.0	+0.8
	2.4	+2.4		4.5	+0.3
<u>10/10</u>	2.6	+2.2		6.5	1.7
	2.5	+2.3		9.5	4.7
50	2.3	+2.5		10.6	5.8
	2.3	}	3+00	11.0	6.2
	2.3	}		11.2	6.4
	2.3	}		11.5	6.7
	2.2	+2.6		11.6	6.8
1+00	2.3	+2.5		11.5	6.7
	2.3	+2.5	50	11.4	6.6
	2.2	+2.4		11.3	6.5
	2.2	+2.6		11.3	6.5
	2.3	+2.5		11.1	6.3
50	2.5	+2.3		11.2	6.4
	2.5	+2.3	4+00	11.5	6.7
	2.7	+2.1		12.3	7.5
	2.7	+2.1		12.0	7.2
	2.5	+2.3		12.0	7.2
2+00	2.5	}		11.5	6.7
	2.5	}	50	12.1	7.3
	2.5	}		12.5	7.7
	2.5	}		13.0	8.2

STA. N. 128+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
(47)	13.1	8.4	(47)	11.9	7.2
	13.2	8.5		12.0	7.3
5+00	13.1	8.4	50	12.1	7.4
<u>10/15</u>	13.0	8.3		12.1	}
	12.7	8.0		12.1	}
	12.9	8.2		12.2	7.5
	13.0	8.3		12.3	7.6
50	13.0	}	8+00	12.4	7.7
	13.0	}		12.4	7.7
	13.0	}		12.5	7.8
	12.9	8.2		12.6	7.9
	12.9	8.2		12.7	8.0
6+00	13.0	8.3	50	12.7	}
	13.0	8.3		12.7	}
	12.8	8.1		12.9	8.2
	12.7	8.0		12.5	7.8
	12.5	7.8		12.5	7.8
50	12.5	7.8	9+00	12.6	7.9
	12.5	7.8		12.6	7.9
	12.2	7.5		12.7	8.0
	12.2	7.5		13.1	8.4
	12.0	7.3		13.3	8.6
7+00	12.0	7.3	50	13.2	8.5
	12.0	7.3		12.5	7.8
	11.9	7.2		10.2	5.5

STA. N. 128+00 - EAST 1-11-60

Dist	Sound	Elev	Dist	Sound	Elev
(46)	9.0	4.4	(43)	4.0	+0.5
	7.0	2.4		3.9	+0.6
10+00	4.3	+0.3	50	3.5	+1.0
10520	4.0	+0.6		3.4	+1.1
	4.2	+0.4		3.3	+1.2
	4.3	+0.3		3.1	+1.4
	4.2	+0.4		3.1	+1.4
50	4.0	+0.6	13+00	2.9	+1.6
	4.0	}		2.7	+1.8
	4.0	}		2.5	+2.0
	4.1	+0.5		2.4	+2.1
	3.9	+0.7		2.4	+2.1
11700	4.0	+0.6	50	2.3	+2.2
	4.0	}	1025	2.2	+2.3
	4.0	}		2.2	+2.3
	4.0	}		2.1	+2.4
	4.0	}		2.0	+2.5
50	4.0	}	14+00	1.8	+2.7
	4.0	}		1.8	+2.7
	4.0	}		1.6	+2.9
	4.0	}		1.5	+3.0
	4.0	}		1.4	+3.1
12700	4.0	}	50	1.4	+3.1
	4.0	}		1.3	+3.2
	4.1	+0.5			

STA. N. 128+00 - WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+10	2.0	+2.4	(42)	3.0	+1.2
(44)	2.0	}		3.0	+1.2
	2.0	}		3.2	+1.0
1030	2.2	+2.2		3.3	+0.9
50	2.1	+2.3	3+00	3.6	+0.6
	2.2	+2.2		4.2	0.0
	2.3	+2.1		5.5	1.3
	2.5	+1.9		6.5	2.3
	2.9	+1.5		7.7	3.5
1+00	3.0	+1.4	50	8.6	4.4
	3.0	+1.4		9.5	5.3
	3.1	+1.3		10.2	6.0
	3.1	+1.3		10.4	6.2
	3.0	+1.4		10.4	}
50	3.0	+1.4	4+00	10.4	}
	2.8	+1.6		10.0	5.8
	2.8	+1.6		9.5	5.3
	2.6	+1.8		9.0	4.8
	2.5	+1.9	1035	7.6	3.4
2+00	2.6	+1.8	50	4.0	8+0.2
	2.5	+1.9		2.9	+1.3
	2.5	+1.9		1.7	+2.5
	2.5	+1.9			
	2.9	+1.5			
50	2.9	+1.5	5+00		

(96)

1-11-60

STA. N. 129+00; 0+00-W. 14,200; SOUND EAST			DIST SOUND ELEV		
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	1.6		(4.0)	1.9	
(4.0)	1.8		50	2.0	
	1.7			2.0	
<u>10:42</u>	1.8			2.0	
	1.8			2.1	
50	1.8			2.6	
	1.8		3+00	3.2	
	1.8			3.4	
	1.8			4.0	
	1.9		<u>10:45</u>	5.1	
1+00	2.0			8.9	
	2.0		50	10.1	
	1.9			10.2	
	2.0			10.4	
	1.8			10.4	
50	1.8			11.1	
	1.8		4+00	11.2	
	1.9			11.1	
	1.9			11.2	
	1.9			11.4	
2+00	1.9			11.6	
	1.9		50	11.7	
	1.9			12.0	
	1.9			12.1	

STA. N. 129+00 - EAST

DIST SOUND ELEV			DIST SOUND ELEV		
(4.0)	12.2		(3.9)	11.0	
	12.2			10.9	
5+00	12.3		50	10.9	
	12.0			10.9	
	11.8			10.9	
	11.3			11.2	
	11.5			11.2	
50	11.3		8+00	11.2	
	11.3			11.3	
	11.7			11.3	
	12.1			11.3	
	12.2			11.3	
6+00	12.2		50	11.3	
	12.1			11.4	
	12.0			11.9	
	12.0			11.8	
	12.0			11.8	
50	12.0		9+00	11.9	
	12.0		<u>10:50</u>	12.0	
	11.8			12.0	
	11.8			12.1	
	11.5			12.1	
7+00	11.3		50	12.1	
	11.2			12.1	
	11.0			12.1	

## STA. N. 129+00 - EAST 1-11-60

DIST	Sound	Elev	DIST	Sound	Elev
(38)	12.0		(37)	3.4	
	12.1			3.4	
10+00	12.2		50	3.4	
	12.3			3.3	
	11.1			3.3	
	9.0			3.1	
	7.1			2.8	
50	4.3		13+00	2.5	
	3.8			2.4	
	3.5			2.3	
	3.6			2.2	
	3.4			2.1	
11+00	3.4		50	2.0	
	3.4			1.9	
	3.4			1.9	
	3.4		1055	1.8	
	3.4			1.7	
50	3.4		14+00	1.6	
	3.5			1.4	
	3.4			1.4	
	3.5			1.3	
	3.6		40	1.2	
12+00	3.6				
	3.6				
	3.5				

## STA. N. 129+00 - WEST (98)

DIST	Sound	Elev	DIST	Sound	Elev
0+10	1.2		(36)	3.1	
(36)	1.2			3.1	
	1.2			3.1	
11.00	1.3			3.1	
50	1.4		3+00	3.1	
	1.5			3.2	
	1.5			3.8	
	1.5			4.3	
	1.4			5.2	
1+00	1.4		50	6.1	
	1.6			7.2	
	1.6			7.8	
	1.8			8.1	
	2.0			8.4	
50	2.2		4+00	8.7	
	2.3			8.8	
	2.3			8.7	
	2.7			8.3	
	2.8			7.9	
2+00	2.8		50	7.1	
	2.9			4.3	
	2.9			2.3	
	2.9			1.3	
	3.0				
50	3.1		5+00		

1-11-60

STA. N. 130+00: 0+00 = N. 14200; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.7	+1.7	(34)	1.9	+1.5
(34)	1.5	+1.9	50	1.9	+1.5
	1.7	+1.7		1.8	+1.6
<u>11:10</u>	1.7	+1.7		1.7	+1.7
	1.8	+1.6		1.8	+1.6
50	1.7	+1.7		1.7	+1.7
	1.8	+1.6	3+00	1.8	+1.6
	1.8	}		1.8	}
	1.8	}		1.8	}
	1.8	}		1.8	}
1+00	1.8	}		1.9	+1.5
	1.8	}	50	2.2	+1.2
	1.8	}		2.6	+0.8
	2.2	+1.2		3.2	+0.2
	2.2	}		3.3	+0.1
50	2.2	}		5.0	1.6
	2.2	}	4+00	8.1	4.7
	2.1	+1.3		9.3	5.9
	2.1	+1.3		10.0	6.6
	2.2	+1.2		10.4	7.0
2+00	2.2	+1.2		11.0	7.6
	2.0	+1.4	50	10.8	7.4
	1.9	+1.5		10.7	7.3
	1.6	+1.8		10.9	7.5

STA. N. 130+00 - EAST

Dist	Sound	Elev	Dist	Sound	Elev
(33)	11.0	7.7	(33)	11.0	7.7
	11.2	7.9		11.1	7.8
5+00	11.3	8.0	50	10.9	7.6
	11.7	8.4	11:15	10.9	7.6
	11.8	8.5		10.5	7.2
	11.2	7.9		10.3	7.0
	11.0	7.7		10.3	7.0
50	11.0	}	8+00	10.1	6.8
	11.0	}		10.2	6.9
	11.0	}		10.3	7.0
	10.5	7.2		10.3	7.0
	10.0	6.7		10.5	7.2
6+00	10.0	6.7	50	10.6	7.3
	10.4	7.1		10.6	7.3
	11.3	8.0		10.5	7.2
	11.5	8.2		10.4	7.1
	11.3	8.0		10.7	7.4
50	11.0	7.7	9+00	10.7	7.4
	11.1	7.8		10.9	7.6
	11.1	}		10.9	7.6
	11.1	}		11.0	7.7
	11.3	8.0		11.0	7.7
7+00	11.1	7.8	50	11.1	7.8
	11.0	7.7		11.2	7.9
	11.0	7.7		11.3	8.0

STA. N. 130+00 - EAST 1-11-60

Dist	Sound	Elev	Dist	Sound	Elev
(33)	11.5	8.2	(3.2)	2.9	+0.3
	11.4	8.1		2.9	}
10+00	11.3	8.0	50	2.9	}
	11.2	7.9	11120	2.9	}
	11.2	7.9		2.8	+0.4
	11.1	7.8		2.8	}
	11.0	7.7		2.8	}
50	11.0	7.7	13+00	2.7	+0.5
	10.9	7.6		2.7	}
	10.5	7.2		2.7	}
	9.5	6.2		2.8	+0.4
	8.0	4.7		2.8	+0.4
11+00	4.2	0.9	50	2.6	+0.6
	3.5	0.2		2.2	+1.0
	3.2	+0.1		2.1	+1.1
	3.0	+0.3		2.1	+1.1
	3.0	+0.3		2.0	+1.2
50	2.9	+0.4	14+00	2.0	+1.2
	2.9	+0.4		1.9	+1.3
	3.0	+0.3		1.8	+1.4
	3.0	}		1.6	+1.6
	3.0	}		1.4	+1.8
12+00	3.0	}	50	1.2	+2.0
	3.0	}			
	3.0	}			

STA. N. 130+00 - WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+10	1.3	+1.7	(30)	2.7	+0.3
(30)	1.0	+2.0		2.9	+0.1
	1.0	}		2.9	}
11:28	1.0	}		2.9	}
50	1.2	+1.8	3+00	2.8	+0.2
	1.2	+1.8		2.8	+0.2
	1.3	+1.7	11130	2.8	+0.2
	1.4	+1.6		3.0	0.0
	1.3	+1.7		3.3	0.3
1+00	1.3	+1.7	50	3.5	0.5
	1.5	+1.5		3.9	0.9
	1.5	}		4.2	1.2
	1.5	}		5.0	2.0
	1.5	}		5.8	2.8
50	1.5	}	4+00	6.8	3.8
	1.5	}		7.3	4.3
	1.6	+1.4		7.8	4.8
	1.7	+1.3		8.0	5.0
	2.0	+1.0		8.0	5.0
2+00	2.2	+0.8	50	7.9	4.9
	2.3	+0.7		7.9	4.9
	2.3	+0.7		7.5	4.5
	2.5	+0.5		7.3	4.3
	2.6	+0.4		5.2	2.2
50	2.7	+0.3	5+00	3.0	0.0
				1.2	+1.8

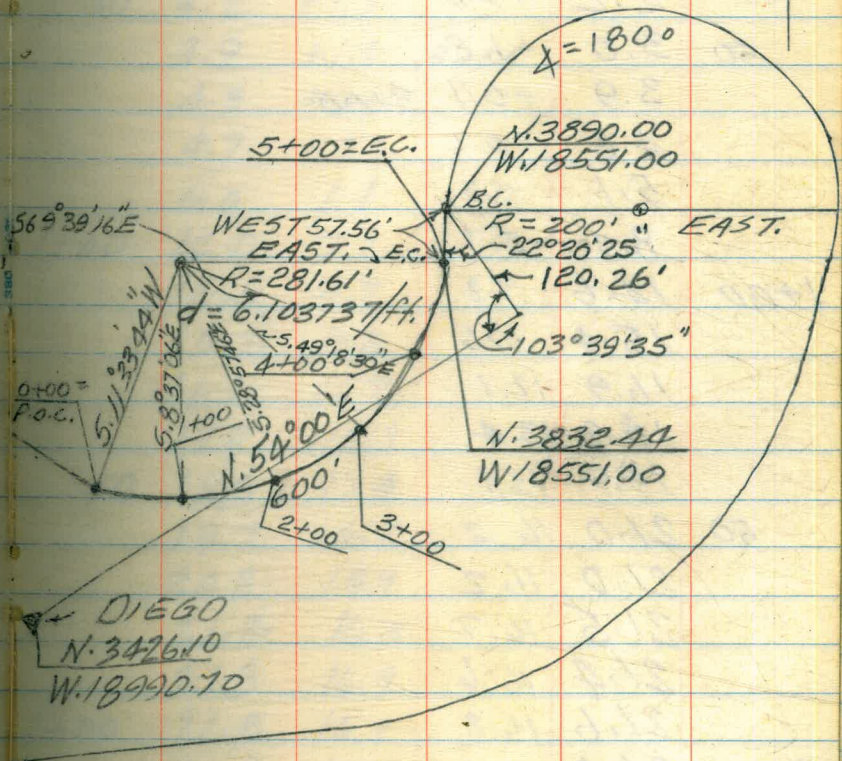
BASELINE FOR CROSS SECTIONS  
& SOUNDINGS OF SLY. GLEN RICK  
BAY; SEC'S TAKEN RADIALY

8-01-60

Stampen

Sta	Def &	Chord.
5+00	0° 00' 00"	0.00
4+00	10° 10' 22"	99.47
3+00	20° 20' 45"	"
2+00	30° 31' 07"	"
1+00	40° 41' 27"	"
0+00	50° 51' 52"	99.47

NOTE: For Shore Sec's See Notes  
by Allen FAB No 131



SOUNDINGS SLY. GLEN RICK. COVE

(See Sketch Pg 51) W.O. 64501

STA. 0+00; 0+00 = 40' N. ELY. SOUND N. 11° 33' 44" E

Dist Sound Elev Dist Sound Elev

0+00 22.5 17.7

(48) 0.3 +4.5 50 22.7 17.9

1.0 +3.8

2:35 2.1 +2.7

2.2 +2.6

50 3.0 +1.8

3.9 +0.9 3+00

4.6 +0.2

5.1 0.3

8.5 3.7

1+00 14.6 9.8

15.4 10.6

16.9 12.1

18.2 13.4

19.9 15.1

50 21.0 16.2

21.0 16.2

21.5 16.7

21.4 16.6

21.6 16.8

2+00 21.8 17.0

21.9 17.1

22.1 17.3

22.2 17.4

8-01-65

STA. 1+00; 0+00 = 30' NWLY. OF B/L. SOUND N 83° 06' W (52)

Dist Sound Elev Dist Sound Elev

0+00 22.3 17.4

(49) 50 22.5 17.6

1.1 +3.8 22.3 17.4

2:40 2.0 +2.9

2.8 +2.1

50 3.2 +1.7

3.9 +1.0 3+00

4.3 +0.6

4.7 +0.2

6.0 1.1

1+00 12.0 7.1

14.6 9.7

15.2 10.3

16.1 11.2

17.8 12.9

50 18.3 13.4

19.7 14.8

20.8 15.9

21.2 16.3

21.8 16.9

2+00 21.8 16.9

21.8 16.9

21.9 16.9

22.1 17.2

22.3 17.2



8-01-60

STA. 2+00: 0+00 = 40' NWLY. B/L. SOUND. N. 28°57'46" W

Dist Sound Elev Dist Sound Elev

0+00 22.8 17.8

(5.0)	0.9	+4.1	50	22.7	17.7
	1.9	+3.1			

2:45	2.5	+2.5			
------	-----	------	--	--	--

<u>3.1</u>	+1.9				
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50	3.9	+1.1			
----	-----	------	--	--	--

	4.4	+0.6	3+00		
--	-----	------	------	--	--

	4.9	+0.1			
--	-----	------	--	--	--

	8.8	3.8			
--	-----	-----	--	--	--

	14.5	9.5			
--	------	-----	--	--	--

1+00	15.4	10.4			
------	------	------	--	--	--

	16.4	11.4			
--	------	------	--	--	--

	17.0	12.0			
--	------	------	--	--	--

	17.5	12.5			
--	------	------	--	--	--

	18.6	13.6			
--	------	------	--	--	--

50	20.1	15.1			
----	------	------	--	--	--

	21.4	16.4			
--	------	------	--	--	--

	22.3	17.3			
--	------	------	--	--	--

	22.5	17.5			
--	------	------	--	--	--

	22.1	17.1			
--	------	------	--	--	--

2+00	22.0	17.0			
------	------	------	--	--	--

	22.0	17.0			
--	------	------	--	--	--

	22.2	17.2			
--	------	------	--	--	--

	22.8	17.8			
--	------	------	--	--	--

(53)

STA. 3+00: 0+00 = 40' NWLY. OF B/L. SOUND. N. 49°18'30" W

Dist Sound Elev Dist Sound Elev

0+00 22.7 17.6

(5.1)	0.0	+5.1	50	22.6	17.5
-------	-----	------	----	------	------

	1.4	+3.7			
--	-----	------	--	--	--

2:55	2.0	+3.1			
------	-----	------	--	--	--

<u>2.9</u>	+2.2				
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50	3.0	+2.1			
----	-----	------	--	--	--

	3.9	+1.2	3+00		
--	-----	------	------	--	--

	5.0	+0.1			
--	-----	------	--	--	--

	5.5	0.4			
--	-----	-----	--	--	--

	6.1	1.0			
--	-----	-----	--	--	--

1+00	11.0	5.9			
------	------	-----	--	--	--

	15.7	10.6			
--	------	------	--	--	--

	17.8	12.7			
--	------	------	--	--	--

	19.0	13.9			
--	------	------	--	--	--

	20.1	15.0			
--	------	------	--	--	--

50	21.1	16.0			
----	------	------	--	--	--

	22.0	16.9			
--	------	------	--	--	--

	22.4	17.3			
--	------	------	--	--	--

	22.6	17.5			
--	------	------	--	--	--

	22.4	17.3			
--	------	------	--	--	--

2+00	22.1	17.0			
------	------	------	--	--	--

	22.2	17.1			
--	------	------	--	--	--

	22.5	17.4			
--	------	------	--	--	--

	22.9	17.8			
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8-01-60

STA 1+00: CHOD = 10' NWLY. OF B/L SOUND N. 69°39'16" W

Dist Sound Elev Dist Sound Elev

			22.9	17.8		
0+00						
(51)	0.3	+4.8	50	23.0	17.9	
	1.4	+3.7				
<u>3+00</u>	2.0	+3.1				
	2.1	+3.0				
50	2.9	+2.2				
	3.0	+2.1	3+00			
	3.8	+1.3				
	4.0	+1.1				
	4.2	+0.9				
1+00	4.4	+0.7				
	5.0	+0.1				
	5.9	0.8				
	11.9	6.8				
	17.7	12.6				
50	19.3	14.2				
	20.9	15.8				
	21.8	16.7				
	21.9	16.8				
	22.7	17.6				
2+00	22.9	17.8				
	22.8	17.7				
	22.6	17.5				
	22.7	17.6				

BEGIN R.I.P. RAP

(54)

STA 5+00: CHOD = 0.00' NWLY. OF B/L SOUND WEST

Dist Sound Elev Dist Sound Elev

			22.7	17.5		
0+00						
(52)			50	22.9	17.7	
	4.0	+1.2		23.1	17.9	
3+05	4.6	+0.6		23.2	18.0	
<u>    </u>	4.5	+0.7		23.0	17.8	
50	4.9	+0.3				
	4.9	+0.3	3+00			
	5.1	+0.1				
	5.4	0.2				
	5.8	0.6				
1+00	6.0	0.8				
	10.5	5.3				
	16.3	11.1				
	18.0	12.8				
	19.0	13.8				
50	19.0	13.8				
	19.9	14.7				
	21.2	16.0				
	22.0	16.8				
	22.4	17.2				
2+00	22.5	17.3				
	22.5	17.3				
	22.4	17.2				
	22.5	17.3				

8-01-60

BASELINE LAYOUT FOR SOUNDINGS  
OF ELY BASIN GLEN RICK BAY,  
FOR PROPOSED RIP-RAP W.O. 64501

NOTE: See Shore Sec's Loose Leaf  
Notes by Cliff Allen & Co.

STA. 5+25.0+00.0 = B/L. SOUND WEST

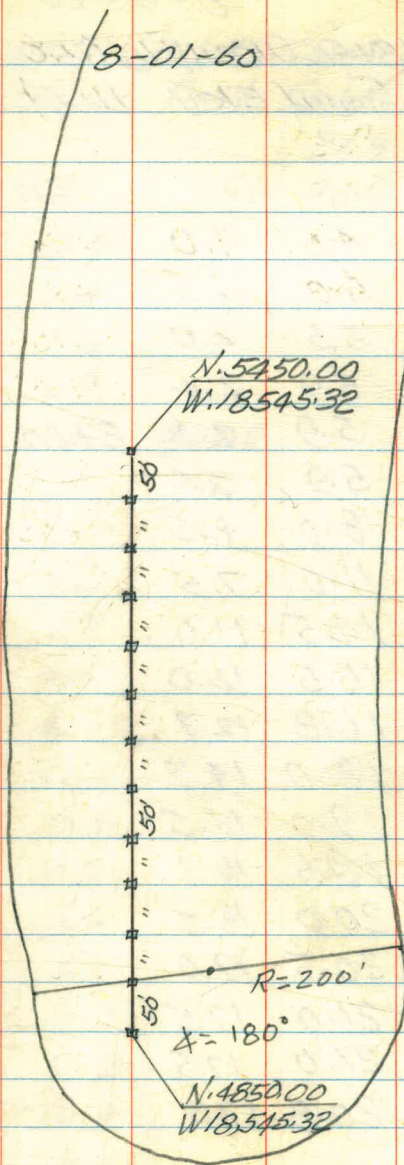
Dist	Sound	Elev	Dist	Sound	Elev
0+00			22.1	16.8	
(5.3)			22.5	17.2	
3.15	4.5	+0.8	2+00	22.5	17.2
	4.9	+0.4			
	5.4	0.1			
50	5.1	+0.2			
	5.4	0.1			
	5.9	0.6	50		
	5.9	0.6			
	6.0	0.7			
1+00	6.4	1.1			
	10.3	5.0			
	16.0	10.7			
	19.0	13.7			
	18.9	13.6			
50	18.5	13.2			
	20.8	15.5			
	21.4	16.1			

See Sketch Pg. 51

Typical - Sec.  
on RIP-RAP

8-01-60

Stamp for  
Wentworth  
Elmore  
Hecht



8-01-60

STA. N. 48+50: 0+00 = W. 18,650 SOUND WEST  
 DIST SOUND ELEV DIST SOUND ELEV

0+00

(3.5)

50

4.5 1.0

12:55 5.0 1.5

5.5 2.0

50 5.9 2.4

5.9 2.4 3+00

5.9 2.4

8.0 4.5

11.0 7.5

1+00 14.5 11.0

15.5 12.0

16.2 12.7

18.0 14.5

19.0 15.5

50 19.6 16.1

20.0 16.5

20.5 17.0

21.0 17.5

21.0 17.5

2+00 20.8 17.3

(50)

STA. N. 49+00: 0+00 = W. 18,650 SOUND WEST  
 DIST SOUND ELEV DIST SOUND ELEV

0+00

(3.6)

20.9 17.3

50 20.9 17.3

4.0 0.4

1:00 5.0 1.4

5.2 1.6

50 5.5 1.9

5.5 1.9 3+00

5.5 1.9

5.8 2.2

9.2 5.6

1+00 13.3 9.7

14.2 10.6

16.5 12.9

16.5 12.9

17.0 13.4

50 17.8 14.2

18.0 14.4

19.0 15.4

19.1 15.5

19.9 16.3

2+00 20.0 16.4

20.2 16.6

20.5 16.9

20.8 17.2

8-01-60

STA. N. 49+50; 0+00 = W. 18,660; SOUND WEST

	Dist	Sound	Elev	Dist	Sound	Elev
0+00						
(3.7)	3.2	+0.5	50			
	4.4	0.7				
<u>1+05</u>	5.0	1.3				
	5.1	1.4				
50	5.2	1.5				
	5.4	1.7	3+00			
	5.4	1.7				
	5.6	1.9				
	9.0	5.3				
1+00	12.0	8.3				
	13.8	10.1				
	16.9	13.2				
	17.6	13.9				
	18.3	14.6				
50	18.4	14.7				
	19.5	15.8				
	19.9	16.2				
	20.3	16.6				
	20.3	16.6				
2+00	20.4	16.7				

(57)

STA. N. 50+00; 0+00 = W. 18,660; SOUND WEST

	Dist	Sound	Elev	Dist	Sound	Elev
0+00						
(3.8)	3.3	+0.5	50	21.8	18.0	
	4.1	0.3		21.9	18.1	
<u>1+15</u>	4.9	1.1				
	5.0	1.2				
50	5.1	1.3				
	5.2	1.4	3+00			
	5.2	1.4				
	5.3	1.5				
	5.4	1.6				
1+00	9.2	5.4				
	13.0	9.2				
	16.1	12.3				
	17.0	13.2				
	18.8	15.0				
50	19.2	15.4				
	19.2	15.4				
	19.5	15.7				
	20.5	16.7				
	21.0	17.2				
2+00	21.1	17.3				
	21.3	17.5				
	21.3	17.5				
	21.5	17.7				

8-01-60

STA. N. 50+50; O+00=N. 18,600 SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00			20.9	17.1		
(3.8)	0.2	+3.6	50	21.0	17.2	
	1.4	+2.4				
<u>1:20</u>	2.9	+0.9				
	2.1	+1.7				
50	1.7	+2.1				
Top-Rip	3.2	+0.6	3+00			
Rap	4.2	0.4				
Nly End	5.0	1.2				
	5.4	1.6				
1+00	5.4	1.6				
	5.6	1.8				
	5.3	1.5				
	5.4	1.6				
	5.6	1.8				
50	5.7	1.9				
	5.8	2.0				
	9.0	5.2				
	10.9	7.1				
	13.9	10.1				
2+00	17.0	13.2				
	17.9	14.1				
	18.9	15.1				
	20.0	16.2				

58

STA. N. 51+00; O+00=W. 18,600 SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00	0.3	+3.7	(40)	20.7	16.7
(4.0)	0.9	+3.1	50	21.0	17.0
	2.2	+1.8		21.0	17.0
<u>1:30</u>	3.1	+0.9		21.1	17.1
	4.0	0.0		21.1	17.1
50	4.7	0.7		21.1	17.1
	5.0	1.0	3+00	21.3	17.3
	5.0	1.0			
	5.1	1.1			
	5.2	1.2			
1+00	5.1	1.1			
	5.1	1.1			
	5.5	1.5			
	5.8	1.8			
	5.5	1.5			
50	5.5	1.5			
	5.1	1.1			
	8.1	4.1			
	12.9	8.9			
	16.4	12.4			
2+00	17.8	13.8			
	18.8	14.8			
	19.3	15.3			
	20.5	16.5			

8-01-60

STA. N. 51+50; 0+00 = W. 18,600; SOUND WEST

	DIST	Sound	Elev	DIST	Sound	Elev
				21.8		17.7
0+00				50	22.5	18.4
(41)	0.2	+3.9				
	1.1	+3.0				
<u>1.40</u>	1.9	+2.2				
	3.0	+1.1				
50	4.2	0.1				
	4.9	0.8	3+00			
	5.0	0.9				
	5.0	0.9				
	5.1	1.0				
1+00	5.1	1.0				
	5.3	1.2				
	5.3	1.2				
	5.4	1.3				
	5.7	1.6				
50	5.7	1.6				
	5.6	1.5				
	9.5	5.4				
	14.6	10.5				
	18.3	14.2				
2+00	19.6	15.5				
	20.3	16.2				
	21.3	17.2				
	21.5	17.4				

59

STA. N. 52+00; 0+00 = W. 18,610; SOUND WEST

	DIST	Sound	Elev	DIST	Sound	Elev
				1	22.2	18.0
0+00				50	22.7	18.5
(42)	0.6	+3.6				
	1.6	+2.6				
<u>1.50</u>	2.0	+2.2				
	2.9	+1.3				
50	3.8	+0.4				
	4.2	0.0	3+00			
	4.7	0.5				
	5.0	0.8				
	5.3	1.1				
1+00	5.2	1.0				
	5.2	1.0				
	5.3	1.1				
	5.7	1.5				
	5.7	1.5				
50	5.9	1.7				
	11.3	7.1				
	14.4	10.2				
	16.8	12.6				
	18.1	13.9				
2+00	20.2	16.0				
	20.9	16.7				
	22.0	17.8				
	21.9	17.7				

8-01-60

STA. N. 52+50; OAD = W. 18,620 SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00

21.4 17.1

(43)

0.6 +3.7

50

21.9 17.6

1.1 +3.2

22.1 17.8

1:55

1.8 +2.5

22.2 17.9

~

1.9 +2.4

22.8 18.5

50

2.7 +1.6

22.8 18.5

3.1 +1.2

3+00

22.9 18.6

4.0 +0.3

4.3 0.0

4.5 0.2

1+00

4.8 0.5

4.8 0.5

4.8 0.5

5.0 0.7

5.4 1.1

50

8.7 4.4

13.3 9.0

15.9 11.6

16.5 12.2

17.0 12.7

2+00

18.4 14.1

19.6 15.3

20.9 16.6

21.0 16.7

(60)

STA. N. 53+00; OAD = W. 18,630 SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00

22.0 17.7

(43)

0.5 +3.8

50

22.0 17.7

1.1 +3.2

2:00

1.8 +2.5

-

2.6 +1.7

50

2.8 +1.5

3+00

3.2 +1.1

3.7 +0.6

3.7 +0.6

1+00

3.8 +0.5

4.0 +0.3

4.1 +0.2

7.3 3.0

13.1 8.8

50

15.2 10.9

17.3 13.0

18.3 14.0

19.6 15.3

20.0 15.7

2+00

20.7 16.4

21.5 17.2

21.5 17.2

21.8 17.5



8-01-60

STA. N. 53+50: 0+00 = W. 18,640 SOUND WEST  
Dist Sound Elev Dist Sound Elev

0+00

(4.4)

50

0.1 +4.3

2:10

0.8 +3.6

1.3 +3.1

50

2.0 +2.4

2.2 +2.2 3+00

3.0 +1.4

2.8 +1.6

3.2 +1.2

1+00

3.9 +0.5

8.1 3.7

14.0 9.6

18.2 13.8

19.1 14.7

50

20.0 15.6

20.9 16.5

21.0 16.6

21.3 16.9

21.9 17.5

2+00

22.0 17.6

61

STA. N. 54+00: 0+00 = W. 18,640 SOUND WEST  
Dist Sound Elev Dist Sound Elev

0+00

(4.5)

50

2:15

0.2 +4.3

0.9 +3.6

50

1.4 +3.1

2.0 +2.5 3+00

3.4 +1.1

3.8 +0.7

4.0 +0.5

1+00

8.5 4.0

15.0 10.5

20.0 15.5

21.1 16.6

21.0 16.5

50

21.3 16.8

22.0 17.5

22.0 17.5

22.3 17.8

22.7 18.2

2+00

23.0 18.5

22.7 18.2

22.7 18.2

8-01-60

STA. N. 54+50, 0+00 = W. 18,640; SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00

(4.6)

150

2+25

0.3 +4.3

1.2 +3.4

50

2.3 +2.3

2.5 +2.1 3+00

2.9 +1.7

3.1 +1.5

3.9 +0.7

1+00

7.9 3.3

14.5 9.9

18.6 14.1

21.1 16.5

21.9 17.3

50

21.9 17.3

22.1 17.5

22.1 17.5

22.0 17.4

22.0 17.4

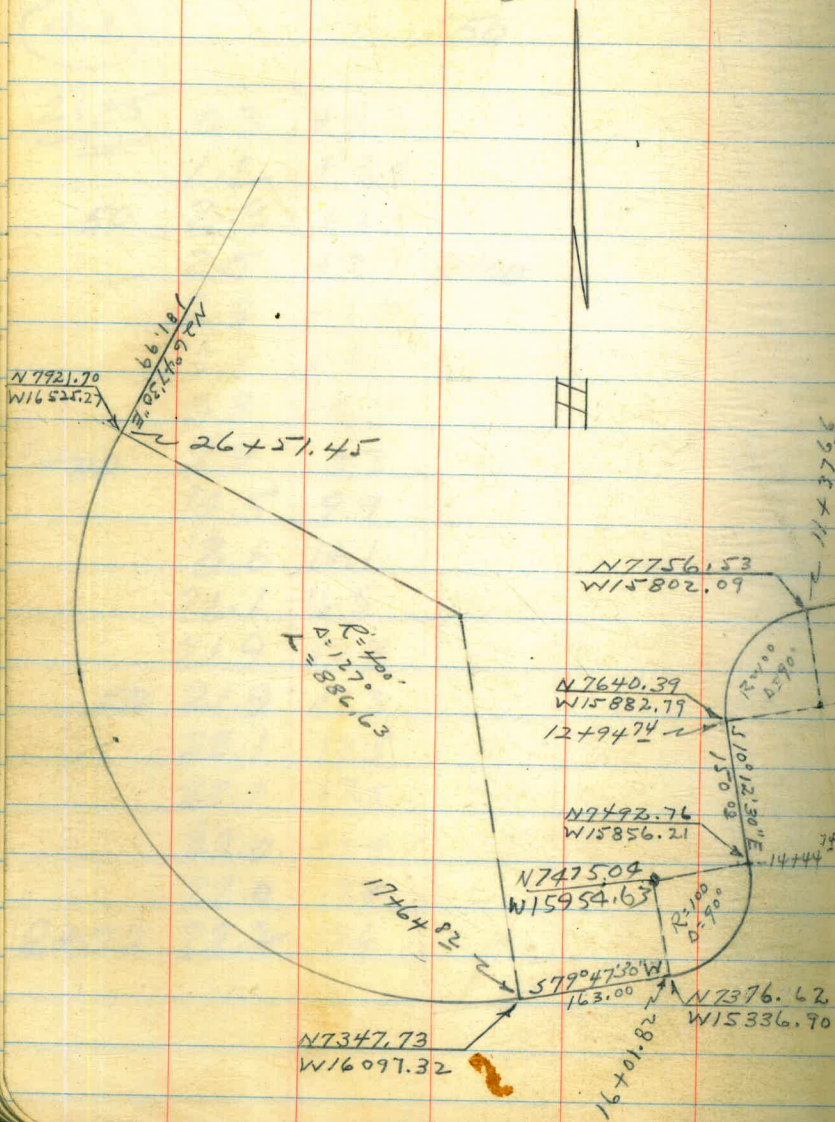
2+00

22.2 17.6

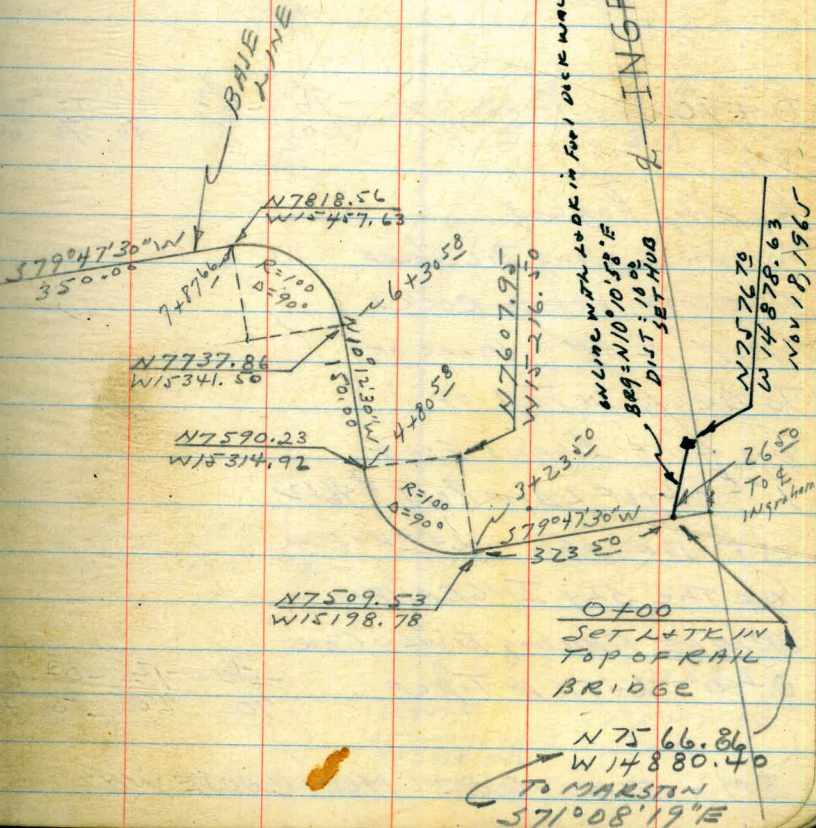
(62)

ALLEN, HAMILTON, GADDY, GLENN

X-SECTIONS OF PORTION OF SHORE  
LINE W/ TY TIERRA DEL FUEGO  
FOR RIP-RAP STUDY - 8-23-6.



BASE LINE FOR  
X-SECTIONS IS  
TOP OF BEACH LINE  
PER DWG 2020-D  
LENGTH OF 100' R = 157.08



X-SECTION ON SHORE LINE WLY

TIERRA DEL FUEGO

BASE  
LINE

64

1450	-6 <sup>0</sup>	-4 <sup>0</sup>	-2 <sup>4</sup>	-1 <sup>0</sup>	-0 <sup>8</sup>	-0 <sup>3</sup>	0 <sup>5</sup>	1 <sup>2</sup>	2 <sup>2</sup>	4 <sup>4</sup>	6 <sup>9</sup>	10 <sup>8</sup>	11 <sup>5</sup>	12 <sup>7</sup>
	110	100	90	80	70	60	50	40	30	23	10	40		25
										H <sub>2</sub> O				

1400	-4 <sup>4</sup>	-3 <sup>4</sup>	-2 <sup>3</sup>	-2 <sup>1</sup>	-0 <sup>5</sup>	0 <sup>1</sup>	-0 <sup>1</sup>	1 <sup>2</sup>	4 <sup>4</sup>	4 <sup>2</sup>	10 <sup>4</sup>	10 <sup>2</sup>	12 <sup>4</sup>
	100	90	80	70	60	50	40	30	20	19	30		25
										H <sub>2</sub> O			

0750	-5 <sup>4</sup>	-4 <sup>5</sup>	-3 <sup>0</sup>	-1 <sup>6</sup>	-0 <sup>2</sup>	0 <sup>2</sup>			0 <sup>8</sup>	1 <sup>5</sup>	2 <sup>5</sup>	4 <sup>2</sup>	11 <sup>7</sup>	12 <sup>6</sup>
	100	90	80	70	60	50			40	30	20	16		25
												H <sub>2</sub> O		

0710	-9 <sup>1</sup>	-6 <sup>6</sup>	-4 <sup>6</sup>	-5 <sup>6</sup>	-1 <sup>2</sup>	-0 <sup>2</sup>	0 <sup>2</sup>	1 <sup>5</sup>	3 <sup>2</sup>	4 <sup>2</sup>	10 <sup>1</sup>	12 <sup>4</sup>	12 <sup>5</sup>
	100	90	80	70	60	50	40	30	20	13		5	30
										H <sub>2</sub> O			

By City Forces  
 Thrown in along the shore  
 Numerous large rocks  
 RIP RAP - There are  
 to bring in top of  
 This line seems fine  
 1' NLY of lamp post #4612

ST BRIDGE - LTK IS  
 OF THE SLY INGRAHAM  
 BRIDGE RAILING NWLY COR

0700 = LTK IN TOP OF

-5 <sup>6</sup>	-1 <sup>2</sup>	-0 <sup>3</sup>	0 <sup>9</sup>
70	60	50	40

-9 <sup>1</sup>	-6 <sup>6</sup>	-4 <sup>6</sup>
100	90	80

15	32	45
30	20	14

6  
6

GROUND  
 AT WING WALL  
 OF BRIDGE

1466  
 Top of wing  
 wall

BM - EN = 10.83 - MON CAUSEWAY

DIRECT ELEV ROD - TRUE ELEV.

SHORE SECTIONS W/RY TIERRA

DEL FUEGO CONT

BASE  
LINE

165

5+00

E.C. Toward Radius Point

TR-12<sup>38</sup> ON STUB - 30' RT OFFSET OF

(END Large Rocks Placed by City Forces.

4+80<sup>58</sup> = EC (Stake Set on 30' offset)

Def = 45°00' - chord = 51.76

Brg ch # 3 N 55° 12' 30" W

4+28<sup>22</sup> - Stake set on 40' offset (inside)

Def 30°00' - chord 51.76

Brg ch # 2 N 70° 12' 30" W

3+75<sup>86</sup> - Stake on 40' offset

Def = 15°00' - chord = 51.76

Section Taken Radial

R = 100' Δ = 90° - Brg ch # 1 = N 85° 12' 30" W

3+23<sup>52</sup> = BC - STAKE ON 20' OFFSET (inside)

3+00

-58 -38 -18 -18 -18 -13 -06  
100 90 80 70 60 50 40

07 32 43 57 92 118 128  
30 30 12 32 92 13 25  
H20

2+50

-38 -22 -12 -08 -02 -03 07 32  
100 90 80 70 60 50 40 30

44 65 113 119 128  
20 10 22 9 25  
H20

2+00

-62 -41 -37 -17 -11 -11 -04 01 02  
100 110 100 90 80 70 60 50 40

38 44 70 113 117 128  
30 25 80 22 11 25

{ -71 -54 -17 -12 -09  
100 90 80 70 60

{ -06 -03 52 17 23 32 63 126 134  
50 40 30 20 10 12 24 50

-68 -62 -42 -22  
100 90 80 70

-15 -15 -12 -12 -12 02 15 35 39 58 119 128  
60 50 40 30 20 10 10 16 25 33 50  
H20

-21 -16 -18 -14 -12 -06 04 22 39 38 66 122 132  
80 70 60 50 40 30 20 10 11 23 33 50  
H20

-73 -42 -22 -16 -16 -13 -08  
100 90 80 70 60 50 40

02 12 32 39 47 118 127  
30 20 10 62 13 25  
H20

8+50

LT	BASE LINE		RT
40	65	107	133
58	34	18	147
H20			25

8+00

39	63	121	134	142
82	46	23		25

7+8765 = EC

Def = 45°00' chord = 51.76

40	61	120	133	141
84	52	30		25
H20				

7+35.30

Def = 30°00' chord = 51.76

39	56	118	128	134
84	59	35		25
H20				

6+8294

Def = 15°00' - chord = 51.76

39	58	118	122	129
77	55	30		25
H20				

Section Taken Radial

R = 100' - Δ = 90°

6+3058 = BC

37	63	112	118	129	132
66	38	22		10	25
H20					

6+00

35	58	115	113	125	130
41	27	14		12	25
H20					

5+50

36	61	120	120	128
30	15	5		30
H20				

LT

RT

12+42<sup>38</sup>

Det = 30°00' - Chord = 51.76

40	59	82	100	113	129
81	64	62	35		25
H <sub>2</sub> O					

11+90<sup>02</sup>

Det = 15°00' Chord = 51.76

39	43	64	87	95	125	130
92	78	62	58	50		25
H <sub>2</sub> O						

## SECTIONS TAKEN RADIAL

R = 100' - Δ = 90°

11+37<sup>66</sup> - BC

40	45	66	90	126	138
92	73	52	47		25
H <sub>2</sub> O					

11+00

40	60	72	102	130	140
95	50	35	31		25
H <sub>2</sub> O					

10+50

41	64	72	100	134	144
86	50	35	30		25
H <sub>2</sub> O					

10+00

41	69	104	134	147
83	41	35		25
H <sub>2</sub> O				

9+50

40	67	103	135	147
73	45	37		25
H <sub>2</sub> O				

9+00

41	61	120	135	145
62	41	15		25
H <sub>2</sub> O				

X-SECT FOR RIP RAMP W/ TY TIERRA DEL  
8-30-60

FUEGO CONT

BASE  
LINE

168

16+0182 (30' off set)  $\eta = EC$ .

Def = 45°00' - ch = 5176  
110    -26   -22   -17   -14   -14   -14  
100    90    80    70    60    50

14   -02   04   18   33   40   66   125   129  
40   30   20   10   30   H20   10   16   50

15+4946 (offset 30')

Def = 30°00' - ch = 5176

-21   -21   -21   -15   -13   -13  
110   100   90   80   70   60

-15   -11   -08   -05   15   32   65   126   132  
50   40   30   20   10   H20   15   21   50

-14   -16  
120   110

14+9710

Def = 15°00' - ch = 5176

-14   -16   -16   -15   -14  
100   90   80   70   60

-12   -06   06   30   32   65   74   119   130  
50   40   30   20   17   H20   6   11   35

Placed by CITY FORESTS

= Begin Large Rocks

R = 100'  $\Delta = 90^\circ 00'$

14+4474 = BC

-06   -04   -02   00   02   00  
120   110   100   90   80   70

-10   -10   -16  
150   140   130

04   18   35   62   78   106   118   125  
60   50   39   20   4   H20   40   25

14+00

34   64   75   122   122   125  
47   31   10   6   H20   25

8-30-60  
13+50

34   62   77   118   119   125  
50   36   18   14   H20   25

TBM - 10' ON HUB AT 12+9474

12+9474 = E.C.

Def = 45°00' - ch = 5176

44   55   72   90   112   110   125  
60   60   58   30   25   H20   25



19+50	-3 <sup>L</sup>	-2 <sup>3</sup>	-2 <sup>1</sup>	-1 <sup>7</sup>	-1 <sup>7</sup>	-1 <sup>7</sup>	-0 <sup>7</sup>	-0 <sup>2</sup>	0 <sup>6</sup>	0 <sup>6</sup>	2 <sup>3</sup>	3 <sup>5</sup>	7 <sup>2</sup>	12 <sup>4</sup>	12 <sup>5</sup>	12 <sup>9</sup>
	140	130	120	110	100	90	80	70	60	50	40	30	12	4 <sup>0</sup>		30

Det = 13° 15.75'

out by here  
FORCES HAS Patches  
Large Rock 1 By city

	-4 <sup>2</sup>	-3 <sup>L</sup>	-2 <sup>9</sup>	-1 <sup>9</sup>
	140	130	120	110

19+00

	-1 <sup>9</sup>	-2 <sup>1</sup>	-1 <sup>7</sup>	-0 <sup>7</sup>	-0 <sup>2</sup>	0 <sup>6</sup>	2 <sup>1</sup>	3 <sup>5</sup>	7 <sup>2</sup>	12 <sup>7</sup>	12 <sup>8</sup>	13 <sup>0</sup>
	100	90	80	70	60	50	40	33	10	4		30

Det = 9° 40.89' ch = 49.97

18+50	-2 <sup>9</sup>	-2 <sup>3</sup>	-2 <sup>2</sup>	-2 <sup>0</sup>	-1 <sup>8</sup>	-1 <sup>6</sup>	-1 <sup>8</sup>	-1 <sup>0</sup>	-0 <sup>2</sup>	0 <sup>4</sup>	2 <sup>2</sup>	3 <sup>2</sup>	7 <sup>8</sup>	11 <sup>2</sup>	12 <sup>6</sup>	12 <sup>9</sup>
	130	120	110	100	90	80	70	60	50	40	30	25	6		1 <sup>0</sup>	30

Det = 6° 06.03' ch = 49.97

18+00	-2 <sup>7</sup>															
	120															
		-2 <sup>5</sup>	-2 <sup>2</sup>	-2 <sup>0</sup>	-1 <sup>9</sup>	-1 <sup>7</sup>	-1 <sup>7</sup>	-0 <sup>9</sup>	-0 <sup>2</sup>	1 <sup>1</sup>	3 <sup>3</sup>	3 <sup>2</sup>	9 <sup>2</sup>	12 <sup>3</sup>	13 <sup>0</sup>	
		110	100	90	80	70	60	50	40	30	20	19		5	30	

Det = 2° 31.17' ch = 35.17

Sections Taken Radial

R = 400' - Δ = 127° 00'

17+64 <sup>83</sup> = BC	-2 <sup>4</sup>	-2 <sup>4</sup>	-2 <sup>1</sup>	-1 <sup>8</sup>	-1 <sup>6</sup>	-1 <sup>6</sup>	-1 <sup>4</sup>	-0 <sup>8</sup>	-0 <sup>2</sup>	0 <sup>4</sup>	3 <sup>2</sup>	3 <sup>2</sup>	7 <sup>5</sup>	12 <sup>4</sup>	12 <sup>9</sup>
	120	110	100	90	80	70	60	50	40	30	20	17		7	30

17+50 (30' OFF SET)	-2 <sup>6</sup>	-2 <sup>4</sup>	-2 <sup>1</sup>	-1 <sup>8</sup>	-1 <sup>9</sup>	-1 <sup>6</sup>	-1 <sup>6</sup>	-1 <sup>1</sup>	-0 <sup>1</sup>	1 <sup>0</sup>	3 <sup>2</sup>	3 <sup>2</sup>	7 <sup>7</sup>	12 <sup>6</sup>	12 <sup>8</sup>	13 <sup>0</sup>
	120	110	100	90	80	70	60	50	40	30	20	16		9	30	4 <sup>0</sup>

17+00 (30' OFF SET)	-2 <sup>5</sup>	-2 <sup>5</sup>	-2 <sup>3</sup>	-1 <sup>9</sup>	-1 <sup>9</sup>	-2 <sup>1</sup>	-1 <sup>7</sup>	-1 <sup>3</sup>	-0 <sup>5</sup>	0 <sup>0</sup>	2 <sup>3</sup>	3 <sup>2</sup>	8 <sup>1</sup>	12 <sup>2</sup>	12 <sup>8</sup>	13 <sup>0</sup>
	120	110	100	90	80	70	60	50	40	30	20	15		6	30	4 <sup>0</sup>

16+50 (30' OFF SET)	-2 <sup>6</sup>	-2 <sup>6</sup>	-2 <sup>6</sup>	-1 <sup>8</sup>	-1 <sup>7</sup>	-1 <sup>6</sup>	-1 <sup>6</sup>	-1 <sup>4</sup>	-0 <sup>6</sup>	0 <sup>4</sup>	1 <sup>6</sup>	3 <sup>0</sup>	6 <sup>2</sup>	12 <sup>5</sup>	12 <sup>7</sup>	13 <sup>0</sup>
	120	110	100	90	80	70	60	50	40	30	20	12		9	30	4 <sup>0</sup>

## X-SECT FOR RIP RAP. WLY TIERRA

DEL FUEGO - 8-30-60

BASE  
LINE

170

23+00  
Def 38°19.17'-8° -6° -5° -3° -2° -1° -0°  
150 140 130 120 110 100 90-0° 0° 1° 2° 3° 6° 11° 11° 13°  
80 70 60 50 40 24 15 30  
H<sub>2</sub>O22+50  
34°44.91'-7° -5° -4° -2° -1° -1° -0°  
150 140 130 120 110 100 900° 1° 1° 2° 3° 7° 11° 11° 13°  
80 70 60 50 45 26 20 30  
H<sub>2</sub>O22+00  
Def = 31°10.05'-5° -4° -2° -1° -1° -1° -0°  
150 140 130 120 110 100 90-0° 0° 1° 2° 3° 5° 10° 12° 13°  
80 70 60 50 46 33 24 30  
H<sub>2</sub>O21+50  
Def = 27°35.19'-3° -2° -1° -1° -1° -1° -0°  
150 140 130 120 110 100 90-0° 0° 1° 2° 3° 7° 12° 12° 13°  
80 70 60 50 42 22 19 30  
H<sub>2</sub>O-1° -1° -1° -1°  
140 130 120 11021+00  
Def = 24°00.33'-1° -1° -0° 0° 0° 1° 1°  
100 90 80 70 60 502° 3° 5° 10° 11° 13° 13° 13°  
40 38 24 13 6 3 30  
H<sub>2</sub>O20+50  
Def = 20°25.47'-1° -1° -1° -1° -1° -1° -0°  
140 130 120 110 100 90 800° 1° 1° 2° 3° 6° 12° 12° 13°  
70 60 50 40 34 16 7 30  
H<sub>2</sub>O

TRM - 12°33' ± 506 20 +00

20+00  
Def = 16°50.61'-2° -2° -1° -1° -1° -1° -1° 0°  
140 130 120 110 100 90 80 702° 1° 2° 3° 7° 12° 12° 13°  
60 50 40 28 9 30  
H<sub>2</sub>O

X-SECT FOR RIP RAP WLY TIERRA

DIEZ FUE 90

BASE  
LINE

(71)

26+00      -8° -6° -5° -3° -2° -0° 0° 0°  
 Def = 59° 48.93      170 160 150 140 130 120 110 100

13 12 26 31 54 75 82 92 115  
 70 80 70 60 30 20 18 30  
 H<sub>2</sub>O

25+50      -5°  
 150      -4° -3° -1° -0° -1° -1° 1°  
 Def = 52° 14.07'      140 130 120 110 100 90 80

15 23 28 32 45 73 95 102 118  
 70 60 50 43 27 13 10 30  
 H<sub>2</sub>O

-6° -4° -3°  
 150 140 130

25+00      -12° -12° -0° -0° 0° 11°  
 Def = 52° 39.21      120 110 100 90 80 70

11 26 33 33 71 100 107 122  
 60 50 40 35 16 12 30  
 H<sub>2</sub>O

24+50      -5° -4°  
 150 140      -2° -2° -1° -0° -0° 0°  
 Def = 49° 04.38'      130 120 110 100 90 80

11 17 23 34 73 103 110 128  
 70 60 50 39 18 15 30  
 H<sub>2</sub>O

24+00      -6°  
 150      -5° -4° -2° -1° -0° 0° 0°  
 Def = 45° 29.49'      140 130 120 110 100 90 80

09 16 21 33 74 103 110 128  
 70 60 50 39 18 14 30  
 H<sub>2</sub>O

-8° -6° -5°  
 150 140 130

23+50      -3° -1° -1° -0° -0° 0°  
 Def = 41° 54.63      120 110 100 90 80 70

10 19 28 34 72 110 115 132  
 60 50 40 37 19 12 30  
 H<sub>2</sub>O

X-SECT RIP RAP WLY TIERRA DEL

FUEGO

BASE  
LINE

(72)

TBM - 10<sup>09</sup> ON HUBAT 26 + 51 45 = EC

-77	-69	-58	-47	-30
180	170	160	150	140

26 + 51 45 = EC

-16	0	10
130	120	110

Det = 63° 30' choro = 51.41

20	24	28	31	48	93	101	117
100	90	80	71	44	16		30

H20





BASE  
LINE

X-SECTIONS FOR RIF RAP  
VENTURIA POINT

175

6+72<sup>59</sup>=BC  
10.1 9Z 76 58 4Z  
30 50 100 127

6+50  
10Z 10L 98 84 69 4Z  
30 11 25 50 110  
H<sub>2</sub>O

6+00  
10Z 9Z 69 48  
30 26 82  
H<sub>2</sub>O

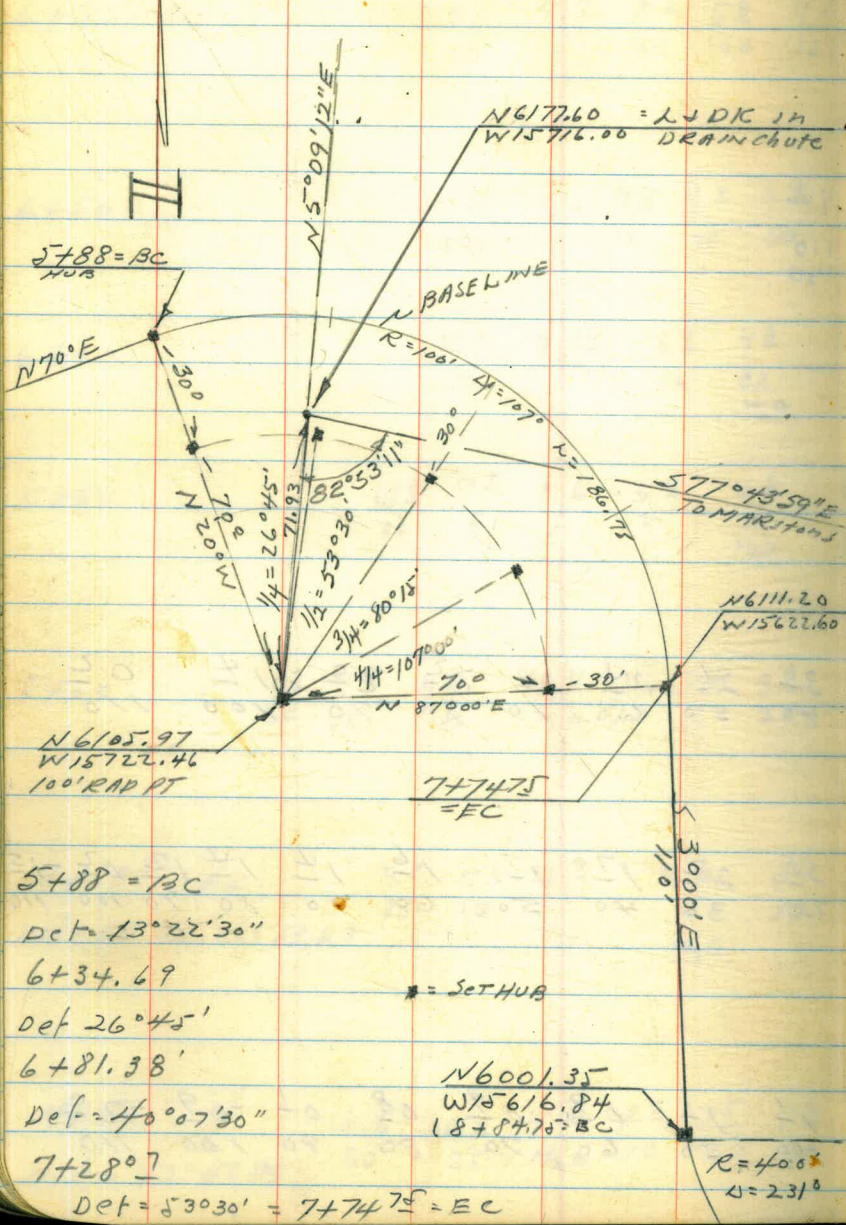
5+50  
10Z 9Z 76 59 46  
30 5 4 16  
H<sub>2</sub>O

5+00  
10Z 9Z 69 44 37 34 30 31 26 24 20 22 20 14 02  
35 25 14 H<sub>2</sub>O 10 20 30 40 50 60 70 80 90 100 110

4+69<sup>32</sup>=EC  
Def = 58°20' - ch = 19.29  
9Z 56 49 46 41 25 22 17 17 16 14 14 13 03 -15  
25 15 42 10 20 30 40 50 60 70 80 90 100 110  
H<sub>2</sub>O

4+50  
Def = 52°47.89'  
10.6 10.2 43 40 35 16 11 11 09 09 08 01 -09 -20  
30 25 H<sub>2</sub>O 10 20 30 40 50 60 70 80 90 100 110

DETAIL OF CURVE SUNSET POINT Sec Pg 1-



N6177.60 L+DK in conc drain chute  
 W15716 } Bearing to MARSTANS = S 77°43'59\"/>

BEARING FROM L+DK TO RAD POINT  
 = S 5°09'12\"/>

L+DK TO RAD PT = 71.93

5+88 = BC  
 Det = 13°22'30"  
 6+34.69  
 Det = 26°45'  
 6+81.38'  
 Det = 40°07'30"  
 7+280  
 Det = 53°30' = 7+7475 = EC

\* = SET HUB

N6001.35  
 W15616.84  
 18+8475 = BC

R=400'  
 Δ=231°

SEE FB 138  
 47



77

IMPROVED TABLE  
AND  
INFORMATION

4612

$$32 + 13 \frac{43}{21} = 786$$

$$31 + 92 \frac{4}{18} = 18$$

252 LT = NLY  
end 1 - ICI

Drain  
 $PL = 3.45$

$$32 + 12 = 6 \text{ in. wing}$$

$$32 + 27 \frac{1}{2} = 270$$

$$\begin{array}{r} 100 \overline{) 3010} \\ \underline{300} \\ 10 \end{array}$$

$$\begin{array}{r} 52 \\ \underline{13} \\ 126 \end{array}$$

$$\begin{array}{r} 81.26 \\ \underline{10-6} \\ 76 \end{array}$$