10226
74
300

10239.8
702
3100

10204.7
813
162900

10131.9
781
2100

10096.4
830
101800

10005.1
949
181000

10054.7
953
101500

~~4659~~
1

9772.2
978
98700

483.9
261
5100

10421
39
10460

10412
38
10450

0439
41
480

430
40

457
33
490

466
34
500

10367.1
529
104200

10394
46
440

448
32
480

492.9
271
5200

NB No 106

0403
37
440

522.8
272
5500

01.9
281
800

10.9
291
400


5.8
6.4

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(Contd from MB 105)

2-7-58

N.130+00; 0+00=W.14,200; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.0	+1.3	(31)	3.1	0.0
(33)	1.9	+1.4	50	3.2	0.1
2:25	1.8	+1.5		3.3	0.2
	1.7	+1.6		3.3	0.2
	1.5	+1.8		3.3	0.2
50	1.8	+1.5		3.4	0.3
	2.0	+1.3	3+00	3.3	0.2
	2.0	+1.3		3.1	0.0
	1.9	+1.4		3.2	0.1
	1.9	+1.4		3.3	0.2
1+00	2.0	+1.3		3.6	0.5
	2.0	+1.3	50	3.6	0.5
	2.0	+1.3		4.3	1.2
	2.1	+1.2		4.8	1.7
	2.0	+1.3	2:30	5.4	2.3
50	2.0	+1.3		6.2	3.1
	2.0	+1.3	4+00	7.0	3.9
	2.1	+1.2		7.5	4.4
	2.2	+1.1		8.3	5.2
	2.4	+0.9		8.3	5.2
2+00	2.5	+0.8		8.4	5.3
	2.7	+0.6	50	8.4	5.3
	2.9	+0.4		8.2	5.1
	3.0	+0.3		8.0	4.9

N130+00; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
(31)	7.9	4.8	2+00	2.0	+1.0
	6.7	3.6	(30)	2.0	+1.0
5+00	3.7	0.6	2:40	1.8	+1.2
	1.4	+1.7		1.5	+1.5
W14,720	0.2	+2.9		1.6	+1.4
SOUND EAST			50	2.0	+1.0
0+10	1.5	+1.5		1.9	+1.1
(30)	1.6	+1.4		1.8	+1.2
2:37	1.5	+1.5		1.9	+1.1
	1.5	+1.5		1.7	+1.3
50	1.6	+1.4	3+00	1.9	+1.1
	1.6	+1.4		1.8	+1.2
	1.5	+1.5		1.8	+1.2
	1.7	+1.3		1.8	+1.2
	1.4	+1.6		1.7	+1.3
1+00	1.5	+1.5	50	2.0	+1.0
	1.5	+1.5		2.8	+0.2
	2.0	+1.0		3.2	0.2
	2.0			3.5	0.5
	2.0			4.5	1.5
50	2.0		4+00	7.0	4.0
	2.0	+1.0		9.0	6.0
	2.1	+0.9		10.0	7.0
	2.1	+0.9		10.0	7.0
	2.0	+1.0		10.5	7.5

N130+00; SOUND EAST 2-7-58

Dist	Sound	Elev	Dist	Sound	Elev
50	10.7	7.8	7+00	11.0	8.1
(29)	10.5	7.6	(29)	10.9	8.0
	11.0	8.1		11.0	8.1
	11.2	8.3		11.0	8.1
	11.1	8.2		10.9	8.0
5+00	11.5	8.6	50	10.9	8.0
	11.9	9.0		10.8	7.9
	11.5	8.6		10.4	7.5
	11.0	8.1		10.3	7.4
	10.8	7.9		10.3	
50	10.4	7.5	8+00	10.3	
	10.8	7.9		10.3	7.4
2:45	10.4	7.5		10.4	7.5
	10.0	7.1		10.4	7.5
	10.0	7.1		10.6	7.7
6+00	10.2	7.3	50	10.7	7.8
	10.6	7.7		11.0	8.1
	11.8	8.9		10.5	7.6
	11.7	8.8		10.5	7.6
	11.3	8.4		10.5	7.6
50	11.0	8.1	9+00	10.7	7.8
	11.0	8.1		10.7	7.8
	11.0	8.1		10.9	8.0
	11.1	8.2		11.1	8.2
	11.1	8.2		11.1	8.2

N130+00; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
50	11.1	8.3			
(28)	11.4	8.6			
	11.6	8.8			
2:50	11.8	9.0			
	11.7	8.9			
10+00	11.7	8.9			
	11.3	8.7			
	11.0	8.2			
	11.1	8.3			
	11.1	8.3			
50	11.1	8.3			
	11.0	8.2			
	10.7	7.9			
	10.0	7.2			
	8.1	5.3			
11+00	5.3	2.5			
	3.0	0.2			
	2.9	0.1			
	2.8	0.0			
	2.8	0.0			
W15,350 50	2.8	0.0			

2-17-58

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

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.9	+1.9	(57)	4.4	+1.3
(58)	3.9	+1.9	50	4.5	+1.2
9:30	3.9	+1.9		4.6	+1.1
	3.8	+2.0		4.8	+0.9
	3.8	+2.0		4.9	+0.8
50	3.9	+1.9		5.1	+0.6
	4.0	+1.8	3+00	5.2	+0.5
	4.0	+1.8		5.8	0.1
	4.2	+1.6		6.6	0.9
	4.5	+1.3		7.8	2.1
1+00	4.6	+1.2		9.9	4.2
	4.8	+1.0	50	10.6	4.9
	4.8			11.5	5.8
	4.8			12.0	6.3
	4.8			12.2	6.5
50	4.8	+1.0		12.1	6.4
	4.7	+1.1	4+00	11.9	6.2
	4.6	+1.2		11.8	6.1
	4.4	+1.4		11.2	5.5
	4.3	+1.5		10.6	4.9
2+00	4.3	+1.5	9:35	9.2	3.5
	4.2	+1.6	50	7.0	1.3
	4.2	+1.6		4.3	+1.4
	4.3	+1.5		3.0	+2.7

N.128+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
(57) W14,600	2.1	+3.6	(56)	3.8	+0.8
4+90	1.1	+4.6		4.3	+0.3
SOUND EAST			50	5.2	+0.4
0+10	3.3	+2.3	9:40	5.9	0.3
(56)	3.6	+2.0		7.9	2.3
9:38	3.6	+2.0		11.4	5.8
	3.4	+2.2		12.1	6.5
50	3.3	+2.3	3+00	12.2	6.6
	3.5	+2.1		12.7	7.1
	3.6	+2.0		12.8	7.2
	3.6	+2.0		12.9	7.3
	3.5	+2.1		13.0	7.4
1+00	3.4	+2.2	50	13.0	7.4
	3.3	+2.3		12.9	7.3
	3.4	+2.2		12.6	7.0
	3.3	+2.3		12.5	6.9
	3.7	+1.9		12.4	6.8
50	3.5	+2.1	4+00	12.9	7.3
	3.4	+2.2		12.9	7.3
	3.7	+1.9		13.1	7.5
	3.6	+2.0		12.7	7.1
	3.6	+2.0		12.8	7.2
2+00	3.6	+2.0	50	13.2	7.6
	3.8	+1.8		13.8	8.2
	3.5	+2.1		14.2	8.6

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N. 128+00; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
(35)	14.7	9.2	(55)	13.2	7.7
9:45	14.6	9.1		13.3	7.8
5+00	14.4	8.9	50	13.4	7.9
	14.5	9.0		13.8	8.3
	14.0	8.5		13.7	8.2
	14.1	8.6		13.6	8.1
	14.1	8.6		13.5	8.0
50	14.2	8.7	8+00	13.4	7.9
	14.2			13.4	7.9
	14.2			13.7	8.2
	14.2	8.7		13.7	8.2
	14.0	8.5		13.7	8.2
6+00	14.1	8.6	50	13.8	8.3
	14.1	8.6		13.9	8.4
	14.0	8.5		14.0	8.5
	14.0	8.5		14.0	
	13.8	8.3		14.0	
50	13.7	8.2	9+00	14.0	8.5
	13.5	8.0		14.1	8.6
	13.3	7.8		14.1	
	13.2	7.7		14.1	
	13.2			14.1	
7+00	13.2		50	14.1	8.6
	13.2	7.7		14.0	8.5
	13.1	7.6		12.9	7.4

N. 128+00; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
(59)	10.0	4.6			
9:50	6.1	0.7			
10+00	5.8	0.4	50		
	5.3	+0.1			
	5.0	+0.4			
	5.0				
	5.0				
50	5.0	+0.4	13+00		
11+00			50		
50			14+00		
12+00			50		

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N.126+00: 0+00 = W.14,200: SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.8	+1.5	(52)	5.3	0.1
(53)	3.9	+1.4	50	5.8	0.6
	3.8	+1.5		6.0	0.8
9:57	3.8	+1.5		6.1	0.9
	4.0	+1.3		7.0	4.8
50	4.0	+1.3		8.3	3.1
	3.9	+1.4	3+00	10.2	5.0
	4.0	+1.3		11.5	6.3
	4.0	+1.3		12.0	6.8
	4.0	+1.3		12.3	7.1
1+00	4.2	+1.1		12.8	7.6
	4.1	+1.2	50	12.8	7.6
	4.1			12.7	7.7
	4.1			12.5	7.3
	4.1	+1.2	10:00	12.2	7.0
50	4.2	+1.1		11.9	6.7
	4.2		4+00	11.2	6.0
	4.2			10.0	4.8
	4.2	+1.1		8.7	3.5
	4.3	+1.0		5.6	0.4
2+00	4.4	+0.9		3.8	+1.4
	4.7	+0.6	50	2.7	+2.5
	5.0	+0.3		1.5	+3.7
	5.1	+0.2	4+70 W14670	0.5	+4.7

N.126+00 EAST

(5)

Dist	Sound	Elev	Dist	Sound	Elev
0+10	3.3	+1.8	(51)	13.1	8.0
(61)	3.6	+1.5		13.0	7.9
10:05	3.5	+1.6		13.0	7.9
	3.4	+1.7		13.1	8.0
50	3.4	+1.7	3+00	13.4	8.3
	3.2	+1.9		13.5	8.4
	3.4	+1.7		13.7	8.6
	3.2	+1.9		13.8	8.7
	3.2	+1.9		13.9	8.8
1+00	3.3	+1.8	50	13.7	8.6
	3.3	+1.8		13.8	8.7
	3.2	+1.9		13.7	8.6
	3.2			13.8	8.7
	3.2			13.8	8.7
50	3.2	+1.9	4+00	13.5	8.4
	3.1	+2.0		13.2	8.1
	3.0	+2.1		13.3	8.2
	3.8	+1.3		13.3	8.2
	4.1	+1.0		13.3	8.2
2+00	4.9	+0.2	50	13.5	8.4
	5.7	0.6		13.2	8.1
	8.1	3.0		13.0	7.9
	11.0	5.9		12.9	7.8
	12.2	7.1		12.8	7.7
50	12.5	7.4	5+00	12.9	7.8

N.126+00 SOUND EAST 2-17-58

Dist	Sound	Elev	Dist	Sound	Elev
(50)	12.5	7.5	(30)	12.4	7.4
	12.4	7.4		12.2	7.2
	12.4	7.4		12.6	7.6
	12.3	7.3		13.1	8.1
50	12.2	7.2	8+00	13.5	8.5
	11.9	6.9		13.7	8.7
	12.0	7.0		13.7	
	13.0	8.0		13.7	
	13.0	8.0		13.7	8.7
6+00	13.1	8.1	50	13.8	8.8
	13.0	8.0		14.0	9.0
10:10	13.0			14.0	9.0
	13.0			13.9	8.9
	13.0			13.9	8.9
50	13.0	8.0	9+00	13.8	8.8
	12.9	7.9		14.2	9.2
	13.0	8.0		14.0	9.0
	12.8	7.8		13.8	8.8
	13.0	8.0		13.7	8.7
7+00	12.8	7.8	50	13.5	8.5
	12.7	7.7		13.5	8.5
	12.8	7.8		13.7	8.7
	12.8	7.8		13.8	8.8
	12.7	7.7		13.9	8.9
50	12.4	7.4	10+00	13.9	8.9

N.126+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
(49)	13.9	9.0			
	13.0	8.1			
	11.3	6.4			
	8.0	3.1			
50	6.1	1.2			
	5.4	0.5			
	4.9	0.0			
	4.5	+0.4			
	4.5	+0.4			
11+00	4.3	+0.6			

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N. 124+00; 0+00 = W. 14,200; Sound West

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.4	+0.4	(48)	9.0	4.2
(48)	4.4	+	50	9.3	4.5
10:20	4.4	+		9.4	4.6
	4.4	+0.4		9.6	4.8
	4.5	+0.3		9.8	5.0
50	4.5	+0.3		10.1	5.3
	4.5	+0.3	3+00	10.1	
	4.6	+0.2		10.1	
	4.7	+0.1		10.1	
	4.8	0.0		10.1	
1+00	4.9	0.1		10.1	5.3
	5.0	0.2	50	9.3	4.5
	5.0	0.2		8.3	3.5
	5.1	0.3		6.9	2.1
	5.2	0.4		5.4	0.7
50	5.2			3.7	+1.1
	5.2		4+00	3.0	+1.8
	5.2			2.1	+2.7
	5.2	0.4		1.1	+3.7
	5.7	0.9	W14630	0.1	+4.7
2+00	6.1	1.3			
	6.4	1.6	50		
	7.3	2.5			
	8.3	3.5			

N 124+00; Sound East

(9)

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.4	+0.3	(46)	14.0	9.4
(47)	4.4	+0.3		14.1	9.5
10:27	4.5	+0.2		14.4	9.8
	4.5	+		14.1	9.5
50	4.5	+	3+00	13.9	9.3
	4.5	+0.2		13.3	8.7
	4.4	+0.3	10:30	13.2	8.6
	4.4			13.3	8.7
	4.4			13.3	8.7
1+00	4.4	+0.3	50	13.5	8.9
	4.7	0.0		13.5	8.9
	4.7	0.0		13.7	9.1
	4.8	0.1		13.8	9.2
	5.2	0.5		13.8	9.2
50	5.9	1.2	4+00	13.9	9.3
	7.0	2.3		14.1	9.5
	11.0	6.3		14.0	9.4
	13.3	8.6		14.0	9.4
	14.7	10.0		13.9	9.3
2+00	15.3	10.6	50	13.9	9.3
	15.3	10.6		13.9	9.3
	14.7	10.0		13.8	9.2
	14.2	9.5		13.4	8.8
	14.0	9.3		13.8	9.2
50	14.0	9.3	5+00	14.1	9.5

N.124+00 CONTD EAST 2-17-58

Dist	Sound	Elev	Dist	Sound	Elev
46	13.9	9.3	45	12.2	7.7
	13.7	9.1		12.2	7.7
	13.4	8.8		12.2	7.7
	13.1	8.5		12.5	8.0
50	12.9	8.3	8+00	12.6	8.1
	12.4	7.8		12.7	8.2
	12.1	7.5	10:35	12.7	8.2
	12.0	7.4	=	12.6	8.1
	11.9	7.3		12.7	8.2
6+00	11.5	6.9	50	12.8	8.3
	11.1	6.5		12.8	|
	10.9	6.3		12.8	|
	10.8	6.2		12.8	8.3
	10.8	6.2		13.0	8.5
50	10.7	6.1	9+00	13.1	8.6
	10.8	6.2		13.1	|
	11.0	6.4		13.1	|
	11.2	6.6		13.1	|
	11.2	6.6		13.1	8.6
7+00	11.3	6.7	50	13.2	8.7
	11.7	7.1		13.2	8.7
	11.7	7.1		13.3	8.8
	12.1	7.5		13.5	9.0
	12.0	7.4		13.8	9.3
50	12.1	7.5	10+00	13.9	9.4

N.124+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
45	13.9	9.4			
	13.8	9.3			
	13.7	9.2			
	13.4	8.9			
50	13.3	8.8			
	13.3	8.8			
	13.2	8.7			
	13.1	8.6			
	13.1	8.6			
11+00	12.9	8.4			
	11.7	7.2			
	9.2	4.7			
	6.0	1.5			
	5.1	0.6			
50	4.4	+0.1			
	3.9	+0.6			
	3.3	+1.2			
10:38	3.2	+1.3			
=	3.1	+1.4			
12+00	3.1	+1.4			

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N.122+00; 0+00 = W.14,200; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.3	0.0	(42)	8.2	4.0
(43)	4.3		50	8.3	4.1
10:46	4.3			8.5	4.3
	4.3	0.0		9.0	4.8
	4.1	+0.2	10:50	9.3	5.1
50	4.2	+0.1		9.3	
	4.4	0.1	3+00	9.3	
	4.5	0.2		9.3	
	4.5			9.3	5.1
	4.5			9.2	5.0
1+00	4.5	0.2		9.0	4.8
	4.6	0.3	50	8.0	3.8
	4.6	0.3		6.2	2.0
	4.7	0.4		4.6	0.4
	4.7	0.4		3.1	+1.1
50	4.9	0.6		2.1	+2.1
	4.9	0.6	4+00	1.5	+2.7
	5.0	0.7	W14610	0.6	+3.6
	5.1	0.8			
	5.7	1.4			
2+00	6.6	2.3			
	7.0	2.7	50		
	7.7	3.4			
	8.1	3.8			

N.122+00; SOUND EAST

(9)

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.1	0.0	(40)	13.7	9.7
(41)	4.1	0.0		13.7	9.7
10:56	4.2	0.1		13.6	9.6
	4.2	0.1		13.8	9.8
50	4.1	0.0	3+00	13.7	9.7
	3.9	+0.2		14.0	10.0
	3.9	+0.2		13.9	9.9
	4.1	0.0		13.9	9.9
	4.7	0.6		13.7	9.7
1+00	5.2	1.1	50	13.1	9.1
	6.8	2.7		12.8	8.8
	10.9	6.8		12.9	8.9
	12.5	8.4		12.7	8.7
	12.8	8.7		12.9	8.9
50	12.7	8.6	4+00	12.9	8.9
	12.7	8.6		13.0	9.0
	12.8	8.7		13.1	9.1
	13.0	8.9		13.1	9.1
	13.0	8.9		13.1	9.1
2+00	13.1	9.0	50	12.9	8.9
	13.2	9.1		12.9	8.9
	13.7	9.6		13.0	9.0
	13.8	9.7		12.8	8.8
	13.7	9.6		12.8	8.8
50	13.8	9.7	5+00	12.8	8.8

N. 122+00: SOUND EAST 2-17-58

Dist	Sound	Elev	Dist	Sound	Elev
(40)	12.9	8.9	(39)	12.8	8.9
	12.9	8.9		13.4	9.5
11+00	12.6	8.6		14.0	10.1
~	12.2	8.2		14.3	10.4
50	12.2	8.2	8+00	14.2	10.3
	12.0	8.0		14.2	10.3
	11.6	7.6		14.5	10.6
	11.4	7.4		14.9	11.0
	11.7	7.7		14.9	11.0
6+00	11.7	7.7	50	14.5	10.6
	12.0	8.0		13.3	9.4
	12.0	8.0	11+05	13.1	9.2
	11.6	7.6	~	13.2	9.3
	11.5	7.5		13.5	9.6
50	11.6	7.6	9+00	14.0	10.1
	11.2	7.2		14.0	
	11.2	7.2		14.0	
	11.4	7.4		14.0	10.1
	11.4	7.4		13.9	10.0
7+00	11.1	7.1	50	14.2	10.3
	10.9	6.9		14.3	10.4
	11.0	7.0		14.5	10.6
	12.0	8.0		14.6	10.7
	12.5	8.5		14.8	10.9
50	12.8	8.8	10+00	15.0	11.1

N. 122+00 EAST

(10)

Dist	Sound	Elev	Dist	Sound	Elev
(39)	14.8	10.9			
	14.0	10.1			
	13.5	9.6			
	13.9	10.0			
50	13.8	9.9			
	13.9	10.0			
	13.9	10.0			
	13.8	9.9			
	13.7	9.8			
11+00	13.4	9.5			
	13.3	9.4			
	13.1	9.2			
	13.0	9.1			
	13.2	9.3			
50	13.0	9.1			
	12.9	9.0			
	12.8	8.9			
	12.5	8.6			
	12.0	8.1			
12+00	10.1	6.2			
	8.0	4.1			
	4.0	0.1			
	3.7	+0.2			
	3.0	+0.9			
50	2.6	+1.3			

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

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.0	0.3	(37)	6.6	2.9
(37)	4.0	0.3	50	6.8	3.1
11:16	4.0	0.3		7.0	3.3
	3.9	0.2		7.1	3.4
	3.6	+0.1		7.1	3.4
50	3.5	+0.2		7.4	3.7
	3.5	+0.2	3+00	7.9	4.2
	3.6	+0.1		8.1	4.4
	3.5	+0.2		8.2	4.5
	3.5	+0.2		8.2	4.5
1+00	3.8	0.1		8.1	4.4
	3.9	0.2	50	7.8	4.1
	3.9	0.2		7.3	3.6
	4.0	0.3		6.4	2.7
	4.0	0.3		5.0	1.3
50	4.1	0.4		3.6	+0.1
	4.1	0.4	4+00	2.4	+1.3
	4.1	0.4		1.6	+2.1
	4.5	0.8	W14620	0.8	+2.9
	4.6	0.9			
2+00	5.0	1.3			
	5.8	2.1	50		
	6.0	2.3			
	6.7	3.0			

N.120+00; SOUND EAST

(11)

Dist	Sound	Elev	Dist	Sound	Elev
0+10	3.8	0.4	(34)	12.3	8.9
(34)	4.0	0.6		12.3	|
	4.0	0.6		12.3	|
11:23	4.0	0.6		12.3	8.9
50	4.6	1.2	3+00	12.4	9.0
	7.0	3.6		12.4	9.0
	10.9	7.5		12.5	9.1
	11.9	8.5		12.5	|
	12.0	8.6		12.5	|
1+00	12.0	8.6	50	12.5	9.1
	12.1	8.7		12.7	9.3
	11.9	8.5		12.8	9.4
	12.0	8.6		12.7	9.3
	12.0	8.6		12.5	9.1
50	12.2	8.8	4+00	12.3	8.9
	12.2	|		12.2	8.8
	12.2	|		12.5	9.1
	12.2	8.8		12.4	9.0
	12.1	8.7		12.0	8.6
2+00	12.0	8.6	50	11.3	7.9
	11.9	8.5		11.3	7.9
	11.8	8.4		11.4	8.0
	11.8	8.4		11.8	8.4
	11.9	8.5		11.9	8.5
50	12.1	8.7	5+00	11.9	8.5

N.120+00 ; SOUND EAST 2-17-58

Dist	Sound	Elev	Dist	Sound	Elev
	12.0	8.7	(33)	11.1	7.8
(33)	12.0	8.7		11.0	7.7
	12.0	8.7		11.0	7.7
	12.1	8.8	11+30	11.0	7.7
50	12.1	8.8	8+00	11.2	7.9
	12.3	9.0		11.7	8.4
	12.2	8.9		11.9	8.6
	12.2	8.9		11.8	8.5
	12.1	8.8		11.1	7.8
6+00	12.1		50	11.2	7.9
	12.1			11.6	8.3
	12.1	8.8		11.7	8.4
	12.0	8.7		11.8	8.5
	12.0	8.7		12.0	8.7
50	11.6	8.3	9+00	12.1	8.8
	11.0	7.7		12.1	
	11.0	7.7		12.1	
	11.2	7.9		12.1	
	11.2	7.9		12.1	
7+00	11.2	7.9	50	12.1	
	11.3	8.0		12.1	8.8
	11.2	7.9		12.0	8.7
	11.1	7.8		11.8	8.5
	11.1	7.8		11.6	8.3
50	11.1	7.8	10+00	11.8	8.5

N.120+00 EAST

Dist	Sound	East	Dist	Sound	Elev
(32)	11.8	8.6	(32)	13.0	9.8
	11.9	8.7		12.1	8.9
	12.1	8.9		10.0	6.8
	12.1			6.3	3.1
50	12.1		13+00	3.8	0.6
	12.1	8.9		3.1	+ 0.1
	12.0	8.8		2.4	+ 0.8
	12.0	8.8		2.0	+ 1.2
	12.0	8.8		1.7	+ 1.5
11+00	12.1	8.9	50		
	12.3	9.1			
11+33	12.2	9.0			
	12.2	9.0			
	12.6	9.4			
50	13.1	9.9			
	13.1				
	13.1				
	13.1				
	13.1	9.9			
12+00	13.5	10.3			
	13.8	10.6			
	13.9	10.7			
	13.8	10.6			
	13.3	10.1			
50	13.1	9.9			

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N. 118+00; 0+00 = W 14+200; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	7.0	0.8	(62)	7.9	1.7
(62)	6.3	0.1	50	8.7	2.5
	6.0	+0.2		9.0	2.8
9:10	6.0			9.3	3.1
	6.0			9.8	3.6
50	6.0	+0.2		10.2	4.0
	5.9	+0.3	3+00	10.6	4.4
	5.8	+0.4		10.9	4.7
	5.8	+0.4		11.0	4.8
	5.9	+0.3		10.9	4.7
1+00	5.8	+0.4		10.2	4.0
	5.5	+0.7	50	9.6	3.4
	5.4	+0.8		8.7	2.5
	5.3	+0.9		7.8	1.6
	5.3	+0.9		6.1	+0.1
50	5.3	+0.9		5.2	+1.0
	5.7	+0.5	4+00	4.1	+2.1
	5.7	+0.5		3.2	+3.0
	5.8	+0.4		2.7	+3.5
	6.2	0.0		2.8	+3.4
2+00	6.3	0.1		2.7	+3.5
	6.4	0.2	50	2.4	+3.8
	6.4	0.2		2.0	+4.2
	7.1	0.9		1.7	+4.5
				1.2	+5.0
			W 14+90	0.7	+5.5

N. 118+00 SOUND EAST

(13)

Dist	Sound	Elev	Dist	Sound	Elev
0+10	10.2	4.0	(62)	14.5	8.3
(62)	12.8	6.6		14.5	8.3
	13.5	7.3	9:20	14.5	8.3
9:17	13.6	7.4		14.3	8.1
50	13.7	7.5	3+00	14.2	8.0
	13.7	7.5		14.0	7.8
	13.4	7.2		13.9	7.7
	13.4	7.2		14.0	7.8
	13.6	7.4		14.4	8.2
1+00	13.5	7.3	50	14.3	8.1
	13.7	7.5		14.3	
	13.7	7.5		14.3	
	13.9	7.7		14.3	
	14.0	7.8		14.3	
50	14.0	7.8	4+00	14.3	8.1
	14.0	7.8		14.6	8.4
	14.1	7.9		14.6	
	14.2	8.0		14.6	
	14.2	8.0		14.6	
2+00	14.2	8.0	50	14.6	8.4
	14.3	8.1		14.5	8.3
	14.3	8.1		14.5	8.3
	14.4	8.2		14.8	8.6
	14.5	8.3		15.0	8.8
50	14.5	8.3	5+00	15.2	9.0

N.118+00; SOUND EAST 2-18-58

Dist	Sound	Elev	Dist	Sound	Elev
(62)	15.0	8.8	(61)	13.2	7.1
	14.8	8.6		13.2	7.1
	14.3	8.1	9+25	13.3	7.2
	13.9	7.7		13.2	7.1
50	13.8	7.6	8+00	13.2	
	13.8	7.6		13.2	
	14.0	7.8		13.2	
	14.1	7.9		13.2	7.1
	14.2	8.0		13.5	7.4
6+00	14.5	8.3	50	14.4	8.3
	14.6	8.4		14.2	8.1
	14.8	8.6		14.3	8.2
	15.1	8.9		14.3	8.2
	15.1	8.9		14.7	8.6
50	15.2	9.0	9+00	14.6	8.5
	15.0	8.8		14.5	8.4
	14.7	8.5		14.5	8.4
	14.6	8.4		14.5	8.4
	14.5	8.3		14.4	8.3
7+00	14.3	8.1	50	14.5	8.4
	14.1	7.9		14.6	8.5
	13.9	7.7		14.5	8.4
	13.7	7.5		14.5	8.4
	12.9	6.7		14.7	8.6
50	12.9	6.7	10+00	14.7	8.6

N.118+00; EAST

Dist	Sound	Elev	Dist	Sound	Elev
(61)	14.8	8.7	(61)	15.0	8.9
	14.7	8.6		15.1	9.0
	14.4	8.3	9+30	15.3	9.2
	14.4	8.3		15.8	9.7
50	14.4	8.3	13+00	16.2	10.1
	14.2	8.1		16.4	10.3
	14.2			16.4	10.3
	14.2			16.3	10.2
	14.2			16.2	10.1
11+00	14.2		50	16.2	10.1
	14.2			15.9	9.8
	14.2	8.1		15.4	9.3
	14.1	8.0		13.8	7.7
	13.9	7.8		9.9	3.8
50	13.8	7.7	14+00	6.4	0.3
	13.3	7.2		5.7	+0.4
	13.7	7.6		5.1	+1.0
	14.0	7.9		4.7	+1.4
	14.2	8.1		4.2	+1.9
12+00	14.4	8.3	50	3.8	+2.3
	14.3	8.2			
	15.0	8.9			
	14.9	8.8			
	14.8	8.7			
50	14.8	8.7			

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N.116+00; 0+00 = W.14,200; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	14.4	8.4	(60)	9.5	3.5
(60)	14.5	8.5	50	9.2	3.2
	13.9	7.9		9.2	3.2
9:40	9.3	3.3		9.3	3.3
	6.0	0.0		9.1	3.1
50	5.2	+0.8		9.1	3.1
	4.7	+1.3	3+00	8.9	2.9
	4.5	+1.5		8.0	2.0
	4.8	+1.2		7.7	1.7
	5.0	+1.0		7.2	1.2
1+00	5.2	+0.8		6.9	0.9
	5.4	+0.6	50	6.8	0.8
	5.5	+0.5		6.5	0.5
	5.8	+0.2		6.1	0.1
	5.7	+0.3		6.0	0.0
50	6.1	0.1		5.8	+0.2
	6.6	0.6	4+00	5.3	+0.7
	6.9	0.9		5.1	+0.9
	7.8	1.8		5.0	+1.0
	8.8	2.8		4.9	+1.1
2+00	8.9	2.9		4.7	+1.3
	8.9	2.9	50	4.2	+1.8
	9.0	3.0		3.9	+2.1
	9.3	3.3		3.4	+2.6

N.116+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
(60)	3.1	+2.9	(59)	13.9	8.0
	2.7	+3.3		14.0	8.1
5+00	2.1	+3.9		13.7	7.8
	1.8	+4.2	2+00	13.3	7.4
W.14,200	1.0	+5.0		13.4	7.5
				13.5	7.6
				13.8	7.9
50				14.0	8.1
SOUND EAST			50	14.0	8.1
0+10	14.3	8.4		14.2	8.3
(59)	14.2	8.3		14.2	8.3
9:55	14.1	8.2		14.3	8.4
	14.3	8.4		14.2	8.3
50	14.0	8.1	3+00	14.3	8.4
	14.0	8.1		14.3	8.4
	13.9	8.0		14.1	8.2
	14.1	8.2		14.1	8.2
	14.1	8.2		14.2	8.3
1+00	14.1	8.2	50	14.2	
	14.0	8.1		14.2	
	14.2	8.3		14.2	8.3
	14.1	8.2		14.3	8.4
	14.1	8.2		14.3	8.4
50	14.2	8.3	4+00	14.1	8.2
	14.0	8.1		14.1	8.2

N.116+00; SOUNDEAST 2-18-58

Dist	Sound	Elev	Dist	Sound	Elev
(57)	14.1	8.4	(57)	14.0	8.3
	14.0	8.3		14.0	8.3
	14.0	8.3		14.0	8.3
50	14.0	8.3	7+00	14.2	8.5
	14.1	8.4		14.2	
	14.6	8.9		14.2	
	14.3	8.6		14.2	
	14.5	8.8		14.2	8.5
5+00	14.5	8.8	50	14.3	8.6
	14.5	8.8		14.3	8.6
	14.7	9.0		14.2	8.5
	14.7	9.0		14.1	8.4
	14.8	9.1		14.4	8.7
50	14.6	8.9	8+00	14.0	8.3
	14.8	9.1		14.3	8.6
10,00	14.9	9.2		13.9	8.2
≈	15.0	9.3		13.6	7.9
	15.0	9.3		13.5	7.8
6+00	14.8	9.1	50	13.4	7.7
	14.7	9.0		13.3	7.6
	14.2	8.5		13.3	
	14.3	8.6		13.3	
	14.1	8.4		13.3	7.6
50	14.2	8.5	9+00	13.1	7.4
	14.0	8.3		13.1	7.4

N.116+00; EAST

Dist	Sound	Elev	Dist	Sound	Elev
(56)	13.1	7.5	(56)	13.4	7.8
	13.2	7.6		13.5	7.9
	13.2	7.6		13.9	8.3
50	13.1	7.5	12+00	14.2	8.6
	13.1	7.5		14.4	8.8
	13.1	7.5		14.8	9.2
10,05	13.0	7.4		14.9	9.3
≈	13.0	7.4		15.0	9.4
10+00	13.0	7.4	50	14.9	9.3
	13.3	7.7		14.6	9.0
	13.2	7.6		14.4	8.8
	13.2	7.6		14.3	8.7
	13.4	7.8		14.2	8.6
50	13.3	7.7	13+00	14.5	8.9
	13.3	7.7		14.4	8.8
	13.5	7.9		14.1	8.5
	13.6	8.0		13.9	8.3
	13.8	8.2		13.9	8.3
11+00	13.9	8.3	50	14.0	8.4
	13.8	8.2		14.1	8.5
	13.8	8.2		14.2	8.6
	13.7	8.1		14.0	8.4
	13.4	7.8		14.0	
50	13.5	7.9	14+00	14.0	
	13.5	7.9		14.0	8.4

N. 116+00; SOUND EAST 2-18-58

Dist	Sound	Elev	Dist	Sound	Elev
(55)	14.0	8.5	(55)	5.0	+0.5
	13.9	8.4		4.1	+1.4
	13.6	8.1		3.7	+1.8
50	13.7	8.2	17+00	3.2	+2.3
	13.1	7.6			
	10.6	5.1			
10.10	9.3	3.8			
≈	8.7	3.2			
15+00	9.9	4.4			
	10.1	4.6			
	10.5	5.0			
	11.9	6.4			
	11.9	6.4			
50	11.8	6.3			
	11.8	6.3			
	11.8	6.3			
	11.6	6.1			
	11.3	5.8			
16+00	11.4	5.9			
	11.4	5.9			
	11.0	5.5			
	10.4	4.9			
	9.0	3.5			
50	7.8	2.3			
	6.1	0.6			

N. 114+00; 0+00 = W. 14,200; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	13.9	8.6	(53)	6.9	1.6
(53)	13.9	8.6	50	6.5	1.2
	13.7	8.4		6.1	0.8
10.23	13.5	8.2		6.0	0.7
≈	13.3	8.0		5.8	0.5
50	13.2	7.9		5.3	0.0
	13.1	7.8	3+00	5.2	+0.1
	13.2	7.9		5.4	0.1
	13.1	7.8		4.9	+0.4
	11.2	5.9		4.9	+0.4
1+00	8.4	3.1		4.9	+0.4
	8.1	2.8	50	4.7	+0.6
	7.9	2.6		4.6	+0.7
	8.1	2.8		4.5	+0.8
	8.3	3.0		4.5	+0.8
50	8.4	3.1		4.4	+0.9
	8.5	3.2	4+00	4.3	+1.0
	8.4	3.1		4.3	+1.0
	8.4	|		4.3	+1.0
	8.4	|		4.2	+1.1
2+00	8.4	3.1		4.2	+1.1
	8.2	2.9	50	4.2	+1.1
	7.5	2.2		4.1	+1.2
	7.0	1.7		4.0	+1.3

N.114+00; SOUND WEST 2-18-58

Dist	Sound	Elev	Dist	Sound	Elev
(52)	3.6	+1.6	(52)	14.1	8.9
	3.3	+1.9		14.1	
5+00	3.0	+2.2		14.1	
	2.4	+2.8	50	14.1	8.9
1030	1.7	+3.5		14.0	8.8
	1.1	+4.1		14.0	
	0.5	+4.7		14.0	
50	0.4	+4.8		14.0	8.8
W14760	0.0	+5.2	2+00	13.9	8.7
				13.9	8.7
				13.9	8.7
				14.0	8.8
6+00				14.0	8.8
SOUND EAST			50	14.0	8.8
0+10	13.8	8.6		13.9	8.7
	13.8	8.6		13.6	8.4
1033	13.9	8.7		13.3	8.1
	14.0	8.8		13.0	7.8
50	14.0		3+00	13.0	
	14.0			13.0	
	14.0			13.0	
	14.0		1035	13.0	7.8
	14.0	8.8		13.2	8.0
1+00	14.1	8.9	50	13.4	8.2
	14.1	8.9		13.5	8.3

N.114+00; SOUND EAST (10)

Dist	Sound	Elev	Dist	Sound	Elev
(51)	13.6	8.5	(51)	14.1	9.0
	14.0	8.9		14.1	9.0
	14.0	8.9		14.2	9.1
4+00	14.0	8.9	50	14.2	
	14.1	9.0		14.2	
	14.3	9.2		14.2	9.1
	14.4	9.3		14.1	9.0
	14.4	9.3		14.0	8.9
50	14.4	9.3	7+00	13.7	8.6
	14.3	9.2		13.5	8.4
	14.2	9.1		13.6	8.5
	13.9	8.8		13.5	8.4
	13.7	8.6		13.2	8.1
5+00	13.5	8.4	50	13.1	8.0
	13.5			13.1	8.0
	13.5			13.2	8.1
	13.5	8.4		13.2	
	13.6	8.5		13.2	
50	13.8	8.7	8+00	13.2	
	13.9	8.8		13.2	
	14.0	8.9		13.2	
	14.1	9.0		13.2	
	14.1			13.2	
6+00	14.1		50	13.2	
	14.1	9.0		13.2	8.1

N. 114+00; SOUND EAST 2-18-58

Dist	Sound	Elev
(5.0)	13.2	8.2
	13.2	8.2
	13.2	8.2
9+00	13.0	8.0
	13.2	8.2
10+40	13.2	8.2
	13.2	8.2
	13.9	8.9
50	14.2	9.2
	14.2	9.2
	14.3	9.3
	14.4	9.4
	14.4	9.4
10+00	14.0	9.0
	13.6	8.6
	13.3	8.3
	12.8	7.8
	12.3	7.3
50	12.0	7.0
	12.1	7.1
	12.3	7.3
	12.5	7.5
	12.9	7.9
11+00	13.1	8.1
	13.1	8.1
	13.1	8.1

Dist	Sound	Elev
(5.0)	13.2	8.2
	13.1	8.1
50	13.1	|
	13.1	|
	13.1	8.1
	13.2	8.2
	13.2	8.2
12+00	13.3	8.3
	13.3	8.3
	13.4	8.4
	13.4	8.4
	13.4	8.4
50	13.3	8.3
	13.2	8.2
	13.3	8.3
	13.2	8.2
	13.2	|
13+00	13.2	|
	13.2	8.2
	13.3	8.3
	13.5	8.5
	13.4	8.4
50	13.5	8.5
	13.9	8.9
	14.2	9.2

N. 114+00 EAST (19)

Dist	Sound	Elev	Dist	Sound	Elev
(49)	14.3	9.4			
	14.7	9.8			
14+00	14.9	10.0			
	14.9	10.0			
	15.0	10.1			
10+45	15.0	10.1			
	14.9	10.0			
50	14.9	10.0			
	14.8	9.9			
	14.8	|			
	14.8	|			
	14.8	9.9			
15+00	14.7	9.6			
	14.7	9.8			
	14.6	9.7			
	14.0	9.1			
	12.8	7.9			
50	10.5	5.6			
	5.6	0.6			
	5.1	0.2			
	4.2	+0.7			
	3.9	+1.0			
16+00	3.3	+1.6			

2-18-58

N. 112+00; 0+00 = N. 14,200; Sound

Dist	Sound	Elev
0+00	13.2	8.5
(47)	13.3	8.6
	13.6	8.9
10:55	13.5	8.8
	13.4	8.7
50	13.3	8.6
	13.2	8.5
	13.2	8.5
	13.0	8.3
	12.9	8.2
1+00	13.0	8.3
	13.0	
	13.0	
	13.0	8.3
	12.6	7.9
50	8.5	3.8
	5.3	0.6
	4.3	+1.4
	3.4	+1.3
	3.4	+1.3
2+00	3.5	+1.2
	3.3	+1.4
	3.6	+1.1
	3.6	+1.1

West

Dist	Sound	Elev
(47)	3.7	+1.0
50	3.8	-0.9
	3.8	-0.9
	3.7	+1.0
	3.9	+0.8
	3.8	+0.9
3+00	3.8	+0.9
	3.9	+0.8
	3.9	+0.6
	3.8	+0.9
	3.8	+0.9
50	3.4	+1.3
	3.3	+1.4
	3.3	+1.4
	3.4	+1.3
	3.6	+1.1
4+00	3.5	+1.2
	3.5	
	3.5	
	3.5	
50	3.5	+1.2
	3.4	+1.3
	3.4	+1.3

N. 112+00 West

Dist	Sound	Elev
(46)	3.3	+1.3
	3.3	+1.3
5+00	3.2	+1.4
	3.1	+1.5
11:00	3.0	+1.6
	2.8	+1.8
	2.8	+1.8
50	2.6	+2.0
	2.1	+2.5
	1.9	+2.7
	1.2	+3.4
	0.9	+3.7
W14800 6+00	0.4	+4.2

Sound East

Dist	Sound	Elev
0+10	13.0	8.5
(45)	13.2	8.7
	13.2	8.7
11:05	13.0	8.5
50	13.0	8.5
	13.1	8.6
	13.1	8.6
	13.0	8.5
	13.0	8.5
1+00	13.0	8.5
	12.8	8.3
	12.8	8.3
	12.8	8.3
	12.7	8.2
50	12.8	8.3
	12.8	8.3
	12.8	8.3
	13.0	8.5
	13.2	8.7
2+00	13.3	8.8
	13.1	8.6
	13.1	8.6
	13.0	8.5
	12.9	8.4

N.112+00; SOUND EAST 2-18-58

Dist	Sound	Elev	Dist	Sound	Elev
50	13.0	8.5	5+00	13.1	8.7
(45)	13.0	8.5	(44)	13.0	8.6
	13.1	8.6		12.9	8.5
	13.1	8.6	11:10	12.9	8.5
	13.2	8.7		13.0	8.6
3+00	13.7	9.2	50	12.9	8.5
	14.0	9.5		12.9	8.5
	14.0	9.5		12.8	8.4
	13.5	9.0		12.7	8.3
	13.4	8.9		12.7	8.3
50	13.3	8.8	6+00	12.7	8.3
	13.5	9.0		12.9	8.5
	13.8	9.3		12.9	8.5
	13.7	9.2		12.9	8.5
	13.6	9.1		13.1	8.7
4+00	13.1	8.6	50	12.8	8.4
	13.0	8.5		12.8	8.4
	13.1	8.6		12.6	8.2
	13.2	8.7		12.3	7.9
	13.3	8.8		12.1	7.7
50	13.2	8.7	7+00	12.1	7.7
	13.3	8.8		12.1	7.7
	13.3	8.8		12.4	8.0
	13.3	8.8		12.4	8.0
	13.1	8.6		12.5	8.1

N.112+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
50	12.7	8.3	10+00	12.4	8.0
(44)	12.8	8.4	(44)	12.9	8.5
	12.8	8.4		13.0	8.6
	12.8	8.4	11:15	12.8	8.4
	12.9	8.5		12.6	8.2
8+00	12.8	8.4	50	12.6	8.2
	12.8	8.4		12.4	8.0
	12.5	8.1		12.2	7.8
	12.3	7.9		11.8	7.4
	12.1	7.7		11.7	7.3
50	12.1	7.7	11+00	12.0	7.6
	12.2	7.8		12.2	7.8
	12.2	7.8		12.1	7.7
	11.9	7.5		12.1	7.7
	12.0	7.6		12.0	7.6
9+00	12.2	7.8	50	12.0	
	12.0	7.6		12.0	
	11.9	7.5		12.0	7.6
	12.0	7.6		11.9	7.5
	12.2	7.8		12.1	7.7
50	12.3	7.9	12+00	12.6	8.2
	12.8	8.4		12.7	8.3
	12.7	8.3		12.8	8.4
	12.7	8.3		12.7	8.3
	12.7	8.3		12.7	8.3

N.112+00; SOUND EAST 2-18-58

Dist	Sound	Elev
50	12.9	8.6
43	12.9	
	12.9	
	12.9	
	12.9	8.6
13+00	12.7	8.4
	12.8	8.5
	12.8	8.5
	12.6	8.3
	12.6	8.3
50	12.7	8.4
	12.9	8.6
	13.0	8.7
	13.0	8.7
	12.9	8.6
14+00	12.8	8.5
	13.4	9.1
	13.7	9.4
	13.7	9.4
	13.5	9.2
50	13.8	9.5
	13.8	9.5
	14.0	9.7
	14.0	9.7
	14.0	9.7

Dist	Sound	Elev
15+00	14.0	9.7
43	14.0	9.7
	13.9	9.6
	13.9	9.6
	14.0	9.7
50	14.0	9.7
11.20	13.6	9.3
	13.3	9.0
	13.4	9.1
	13.2	8.9
16+00	13.1	8.8
	13.0	8.7
	12.9	8.6
	12.4	8.1
	11.5	7.2
50	8.3	4.0
	4.9	0.6
	4.1	+0.2
	3.4	+0.9
	3.0	+1.3
17+00	2.7	+1.6

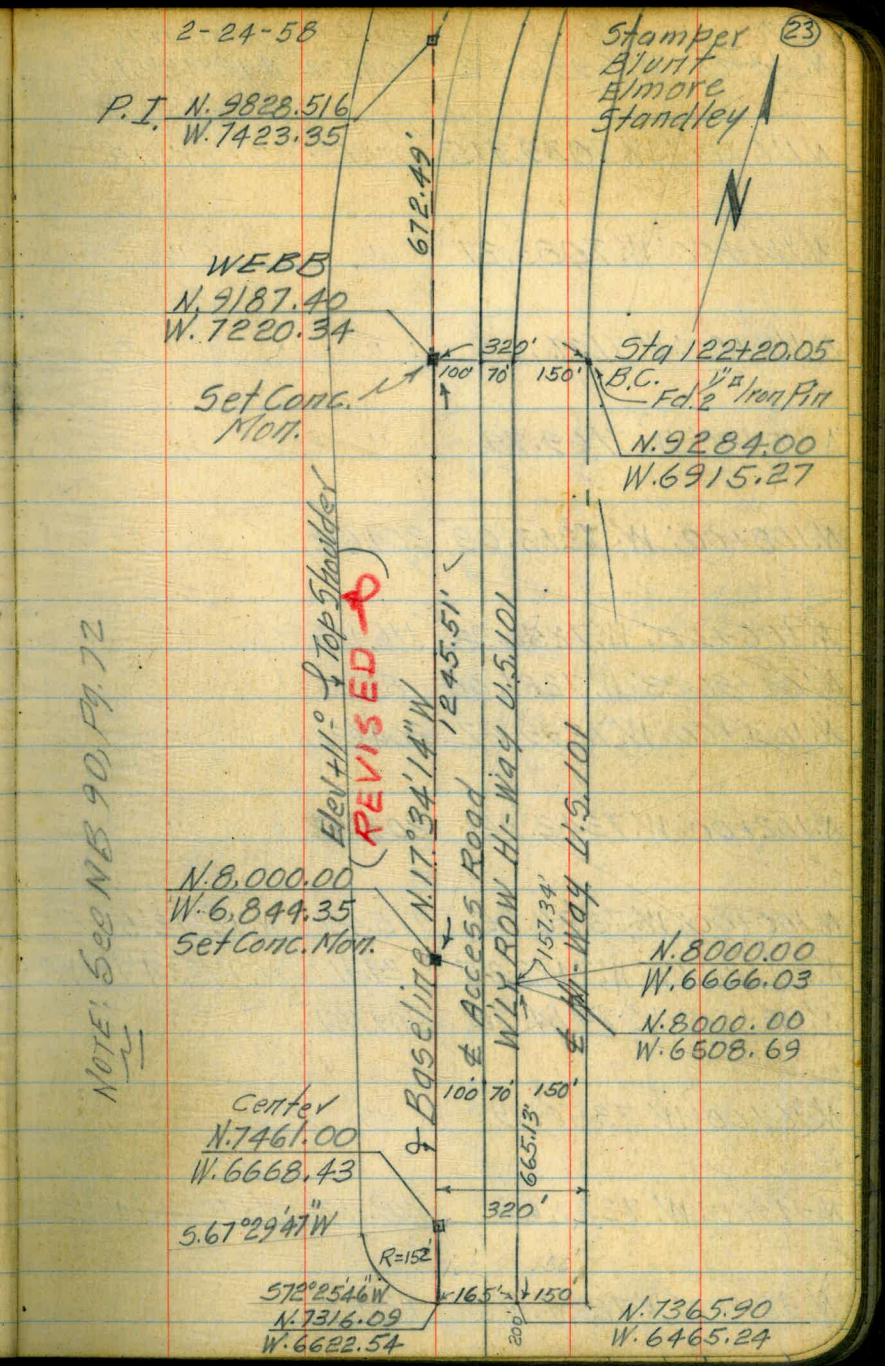
(CONTINUED)
(SEE MB #96 PAGE 40)

BASELINE LAYOUT FOR CROSS SECTIONS
ELY. SHORE AREA MISSION BAY W.O. 64501

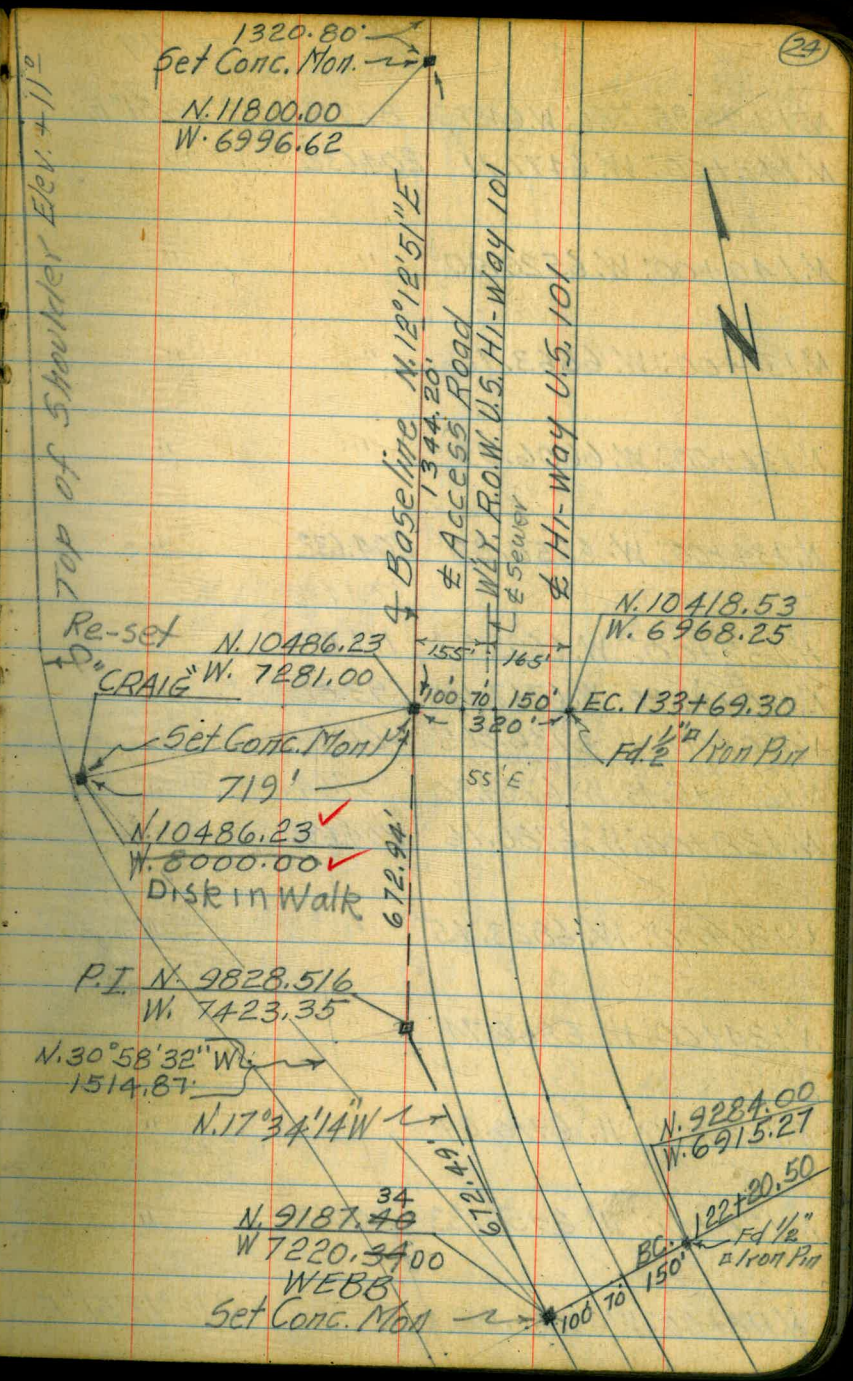
N.	W	B/L Dist	Bearing
N. 92+00;	W. 7224.33	13.216	N. 17°34'14" W
BC N. 91+87.40;	W. 7220.34	196.57	"
N. 90+00;	W. 7161.00	209.787	"
N. 88+00;	W. 7097.67	"	"
N. 86+00;	W. 7034.34	"	"
N. 84+00;	W. 6971.01	"	"
N. 82+00;	W. 6907.68	209.787	"
N. 80+00;	W. 6844.35		N. 17° 34'14" W

NOTE: For additional X-Sec's & Soundings
See N.B. No 104 Pg. 29
For Original B/L. See N.B. No 90

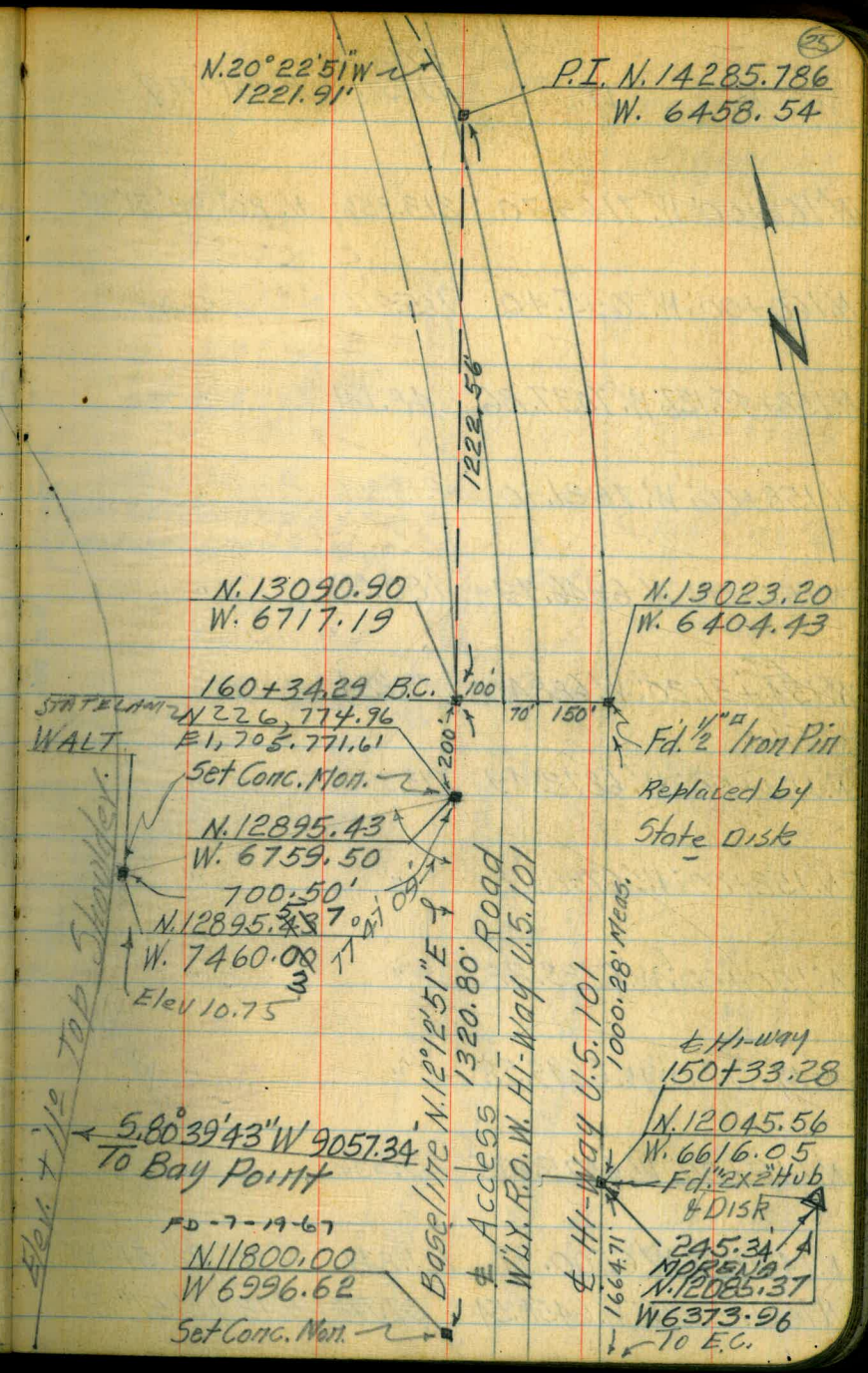
Set "2x2" R/W. Hubs & Tks. on 200'
Grid Sta's. & @ P.I. of Curves



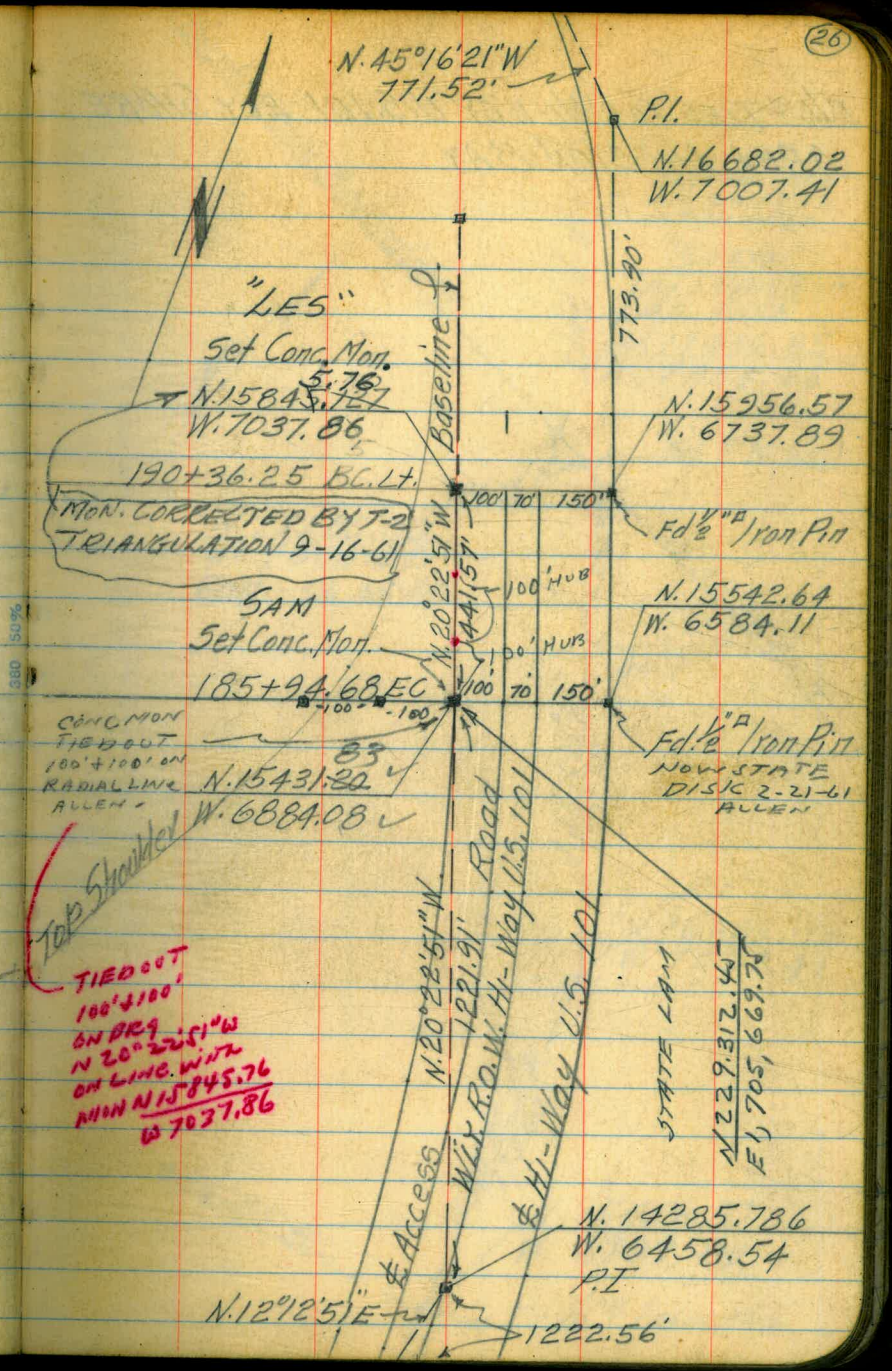
N. W.	B/L Dist	Bearing
N.118+00; W.6996.62	204.632	N.12°12'51"E
N.116+00; W.7039.915	"	"
N.114+00; W.7083.21	"	"
N.112+00; W.7126.50	"	"
N.110+00; W.7169.79	"	"
N.108+00; W.7213.09	204.632	"
N.106+00; W.7256.38	116.405	"
E.C. N.104+86.23; W.7281.00	88.23	"
N.104+00; W.7299.67	204.632	"
N.102+00; W.7342.96	204.632	"
N.100+00; W.7386.25	175.456	N.12°12'51"E
P.I. N.98+28.52; W.7423.35	29.91	N.17°34'14"W
N.98+00; W.7414.32	209.787	
N.96+00; W.7350.99	"	
N.94+00; W.7287.66	209.787	N.17°34'14"W
N.92+00; W.7224.33	13.216	



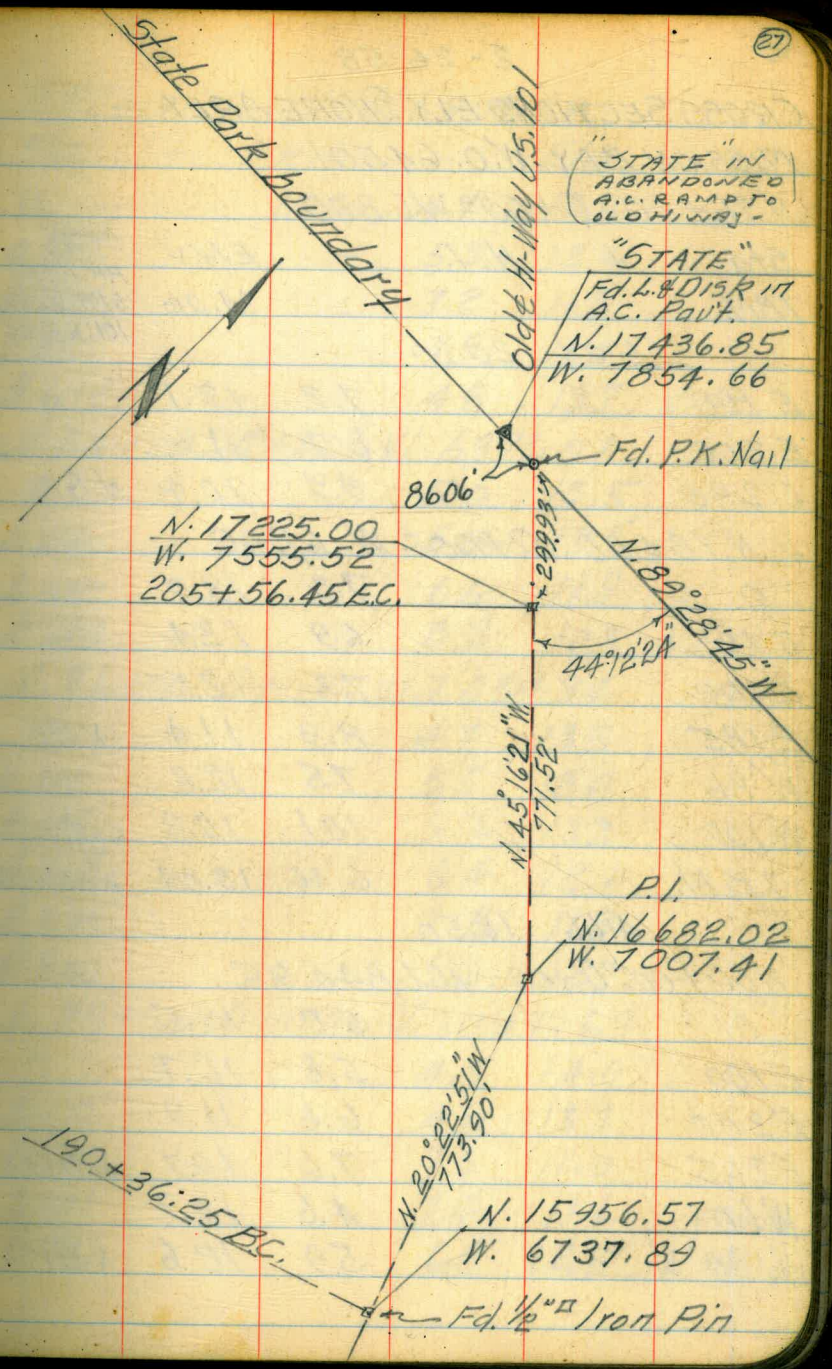
N.	W.	B/L Dist.	Bearing
N.142+85.786	W.6458.54	87.773	N.12°12'51"E
N.142+00	W. 6477.11	204.632	"
N.140+00	W. 6520.40	"	"
N.138+00	W. 6563.70	"	"
N.136+00	W. 6606.99	"	"
N.134+00	W. 6650.28	204.632	"
N.132+00	W. 6693.57	111.63	"
B.C. N.130+90.90	W. 6717.19	93.01	"
N.130+00	W. 6736.865	106.99	"
Conc. Mon. 200' SLY OF B.C. N.128+95.43	W. 6759.50	97.64	"
N.128+00	W. 6780.16	204.632	"
N.126+00	W. 6823.45	"	"
N.124+00	W. 6866.74	"	"
N.122+00	W. 6910.04	"	"
N.120+00	W. 6953.33	204.632	"
N.118+00	W6996.62		N.12°12'51"E



N.	W.	B/L Dist.	Bearing
N.162+00;	W.7169.70	213.356	N. 20° 22' 51" W
N.160+00;	W.7095.40	165.216	"
N.158+45.127;	W.7037.86	48.141	"
N.158+00;	W.7021.10	213.356	"
N.156+00;	W. 6946.79	180.072	"
E.C. N.154+31.20;	W.6884.08	33.284	"
N.154+00;	W.6872.49	213.356	"
N.152+00;	W.6798.18	"	"
N.150+00;	W.6723.88	"	"
N.148+00;	W.6649.58	"	"
N.146+00;	W.6575.275	213.356	"
N.144+00;	W6500.97	121.841	N. 20° 22' 51" W
P.I. N.142+85.786;	W.6458.54	87.773	N. 12° 12' 51" E



B/L & TIES TO ℄ HI-WAY U.S. 101 ELY. SHORE
AREA MISSION BAY



2-26-58

CROSS SECTIONS ELY. SHORE AREA

MISSION BAY W.O. 64501

N.76+00; 0+00 = W6,800

Sta	+	H.I.	-	Elev	
TBM.				14.06	NB90; 67 P.K. P.P. No 5170 W. Side 101; N7900±
	6 24	20.30			
E 100			7.2	13.1	
E 200			8.7	11.6	
E 290			9.9	10.4	N. Gr.

N.78+00; 0+00 = W. 6,800

0			7.3	13.0	
E 72			6.9	13.4	
E 100			7.8	12.5	
E 185			8.9	11.4	N. Gr.
W 86			7.5	12.8	
W 100			10.1	10.2	Conc. Mon. N8000 W6844.35
TBM.			6.46	13.84	
	4.66	18.50			

N80+00; 0+00 = W. 6,844.35

0			5.0	13.5	
E 100			5.8	12.7	
E 200			6.6	11.9	
E 265			7.6	10.9	N. Gr.
W 60			4.6	13.9	
W 100			5.9	12.6	N. Gr.

N.82+00; 0+00 = W.6907.68

Sta	+	H.I.	-	Elev	
0		18.50	4.7	13.8	
E 100			5.3	13.2	
E 200			7.2	11.3	
E 285			7.5	11.0	
E 298			4.8	13.7	N. Gr.

N. 84+00; 0+00 = W. 6,971.01

0			5.0	13.5	
E 100			5.0	13.5	
E 200			6.6	11.9	
E 284			8.2	10.3	N. Gr.

N. 86+00; 0+00 = W. 7,034.34

0			4.7	13.8	
E 100			5.5	13.0	
E 140			5.2	13.3	
E 200			6.4	12.1	
E 295			7.2	11.3	
E 300			5.8	12.7	

N. 88+00; 0+00 = W. 7097.67

0			4.5	14.0	
E 100			4.8	13.7	
E 200			7.5	11.0	
E 291			7.4	11.1	
E 297			6.2	12.3	N. Gr.

2-26-58

N.90+00; 0+00 = W 7161.00.

Sta	+	H.I.	−	Elev	
0		18.50	4.5	14.0	
E100			4.8	13.7	
E200			7.0	11.5	
E290			8.3	10.2	
E299			6.8	11.7	N.Gr.
W100			5.2	13.3	
TP.			4.52	13.98	
	4.10	18.08			

N.92+00; 0+00 = W 7224.33

0			3.7	14.4	
E45			3.2	14.9	
E100			4.1	14.0	
E200			5.9	12.2	
E294			7.7	10.4	
E299			6.6	11.5	N.Gr
W100			4.8	13.3	
W200			5.9	12.2	

N.94+00; 0+00 = W. 7287.66

0			4.0	14.1	
E100			3.8	14.3	
E200			5.6	12.5	
E297			6.9	11.2	
E302			5.1	13.0	N. Gr
W.100			3.9	14.2	

N.94+00; WEST

Sta	+	H.I.	−	Elev	
		18.08			
W157			3.8	14.3	
W200			5.7	12.4	

NOTE: N.96+00 Would Cross drain Ditch if taken on grid; but ditch is ignored & Average ground is Taken Alongside (N.98+00 Also)

N.96+00; 0+00 = W. 7351

0			3.0	15.1	
E45			3.0	15.1	
E100			4.3	13.8	
E140			3.7	14.4	
E200			5.3	12.8	
E300			6.8	11.3	
E318			6.8	11.3	
E325			4.7	13.4	N.Gr.
W100			3.5	14.6	
W200			5.1	13.0	
TBM. (Side Shot)			3.21	14.87	Top BC. Mon. N.9187.40 W.7220.34
TP.			4.09	13.99	
	5.19	19.18			

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N.98+00; 0+00 = W.7414.32

Sta	+	H.I.	-	Elev	
0		19.18	4.5	14.7	
E45			5.7	13.5	
E100			4.9	14.3	
E150			5.7	13.5	
E200			6.3	12.9	
E300			7.3	11.9	
E359			7.7	11.5	
E365			4.9	14.3	Shldr
W.50			3.8	15.4	
W.100			4.4	14.8	
W200			5.9	13.3	

N.100+00; 0+00 = W.7,386.25

0			4.6	14.6	
E50			3.9	15.3	
E100			4.8	14.4	
E200			5.8	13.4	
E300			6.5	12.7	
E314			6.3	12.9	
E327			5.1	14.1	Shldr.
W100			3.6	15.6	
W200			4.1	15.1	
W300			5.9	13.3	
W337			6.1	13.1	
W400			5.5	13.7	

N.102+00; 0+00 = W.7342.96

Sta.	+	H.I.	-	Elev	
0		19.18	4.8	14.4	
E70			6.3	12.9	
E100			5.8	13.4	
E176			5.1	14.1	
E200			5.6	13.6	
E248			7.5	11.7	
E272			7.1	12.1	
E279			6.5	12.7	Shldr
W.100			4.2	15.0	
W.200			3.8	15.4	
W.260			4.3	14.9	
W300			5.4	13.8	
W360			6.4	12.8	
W400			5.7	13.5	
W500			5.7	13.5	
W557			6.2	13.0	

N.104+00; 0+00 = W7,299.67

0			5.1	14.1	
E69			5.4	13.8	
E100			6.0	13.2	
E195			6.8	12.4	
E255			8.3	10.9	
E265			8.3	10.9	
E270			7.2	12.0	

SCOTT EDKINS
619-235-6471

TP Book 25

arnold line

FB 106
Allen 1-14-70 - 10/4
P. 24-25
2-24-58
214-1692

Gary Hus
619-235-6471

Arnold Line —

Pipes —

D- 20016 WO
7-10-72
210-1689

1538-2-D 1 #2

N.104+00 CONTD WEST

Sta	+	H.I.	-	Elev	
W.56		19.18	5.7	13.5	
W.100			5.1	14.1	
W.200			4.7	14.5	
W.300			3.9	15.3	
W400			5.1	14.1	
W470			4.3	14.9	
W500			4.7	14.5	
W600			5.4	13.8	
N106+00; 0+00 = W7256.38					
0			6.3	12.9	
E100			6.0	13.2	
E200			7.9	11.3	
E254			8.7	10.5	
E266			8.4	10.8	
E270			8.3	10.9	
W.100			5.0	14.2	
W170			3.5	15.7	
W200			4.0	15.2	
W300			5.1	14.1	
W400			4.4	14.8	
W480			4.7	14.5	
W500			5.7	13.5	
W600			6.4	12.8	
W700			6.4	12.8	

N.108+00; 0+00 = W.7213.09

Sta	+	H.I.	-	Elev	
0		19.18	5.9	13.3	
E100			6.8	12.4	
E200			8.8	10.4	
E263			9.0	10.2	
E268			8.7	10.5	Shldr
W.100			4.7	14.5	
W.200			4.5	14.7	
W300			4.3	14.9	
W373			5.5	13.7	
W400			4.9	14.3	
W500			5.9	13.3	
W600			5.8	13.4	
W693			5.5	13.7	
W700			5.3	13.9	
N.110+00; 0+00 = W.7169.79					
0			5.5	13.7	
E100			6.6	12.6	
E200			8.7	10.5	
E263			9.3	9.9	
E269			8.9	10.3	Shldr
W100			3.9	15.3	
W200			3.3	15.9	
W300			3.1	16.1	
W400			3.9	15.3	

N.110+00 CONT'D WEST

Sta	+	H.I.	−	Elev	
W500		19.18	5.2	14.0	
W600			5.3	13.9	
W700			7.1	12.1	
W800			6.7	12.5	
B.M. (Sideshot)			5.27	13.91	Conc. Mon N.10986.12 W.7281.00
TP.			5.49	13.69	N.11000 W.7169.79
	6.51	20.20			

N.112+00; 0+00 = W.7,126.50

0			7.4	12.8	
E100			8.5	11.7	
E200			9.5	10.7	
E263			10.0	10.2	
E269			9.7	10.5	Shldr.
W100			6.7	13.5	
W200			5.3	14.9	
W300			5.2	15.0	
W400			5.4	14.8	
W500			5.9	14.3	
W600			6.2	14.0	
W700			6.6	13.6	
W800			7.8	12.4	

N.114+00; 0+00 = W.7,083.21

0			7.4	12.8	
E100			7.9	12.3	

N.114+00 CONT'D EAST

Sta	+	H.I.	−	Elev	
E200		20.20	9.1	11.1	
E268			9.7	10.5	
E271			9.1	11.1	Shldr.
W100			6.8	13.4	
W200			6.1	14.1	
W300			6.0	14.2	
W400			6.2	14.0	
W500			6.1	14.1	
W600			6.1	14.1	
W700			6.8	13.4	
W800			7.5	12.7	Conc. Mon N.11800 W.6996.62
B.M.			6.28	13.92	
	6.99	20.91			

N.116+00; 0+00 = W.7,039.9

0	7.8	13.1	
E100	8.0	12.9	
E200	9.1	11.8	
E268	10.0	10.9	
E270	9.2	11.7	Shldr.
W100	6.7	14.2	
W200	6.2	14.7	
W300	5.7	15.2	
W400	6.9	14.0	
W500	6.8	14.1	

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N.116+00 CONT'D WEST

Sta	+	H.I.	-	Elev	
W.528		20.91	6.5	14.4	
W.600			7.7	13.2	
W.700			8.3	12.6	
W.760			9.2	11.7	
W 800			8.4	12.5	
N.118+00; 0+00=W.			6,996.62		
0			7.4	13.5	
E 100			8.2	12.7	
E 200			8.8	12.1	
E 268			9.6	11.3	
E 270			8.8	12.1	Shldr.
W 100			6.6	14.3	
W 200			6.3	14.6	
W 300			5.7	15.2	
W 400			6.2	14.7	
W 500			6.4	14.5	
W 600			6.9	14.0	
W 700			8.5	12.4	
W 800			8.5	12.4	
N.120+00; 0+00=W.			6,953.33		
0			7.2	13.7	
E 100			7.7	13.2	
E 200			9.3	11.6	
E266			9.7	11.2	

N.120+00 CONTD

Sta	+	H.I.	-	Elev	
E 269		20.91	8.6	12.3	Shldr.
W 67			7.2	13.7	
W 100			6.9	14.0	
W 200			7.2	13.7	
W 300			6.1	14.8	
W 400			6.0	14.9	
W 500			6.8	14.1	
W 600			7.6	13.3	
W 700			8.5	12.4	
W 800			8.3	12.6	
N.122+00; 0+00=W.			6,910		
0			6.9	14.0	
E 100			7.9	13.0	
E 200			9.3	11.6	
E 267			10.2	10.7	
E 271			9.0	11.9	Shldr.
W 100			6.9	14.0	
W 200			6.0	14.9	
W 300			6.0	14.9	
W 400			6.8	14.1	
W 500			7.2	13.7	
W 600			7.8	13.1	
W 700			8.6	12.3	
W 800			10.3	10.6	

N.124+00; 0+00 = W. 6866.74

Sta	+	H.I.	−	Elev	
0		20.91	7.3	13.6	
E100			8.3	12.6	
E200			10.3	10.6	
E271			10.9	10.0	
E274			9.8	11.1	Shldr.
W100			6.2	14.7	
W153			6.5	14.4	
W200			5.3	15.6	
W250			4.8	16.1	
W300			5.6	15.3	
W400			7.0	13.9	
W500			7.6	13.3	
W600			8.0	12.9	
W700			9.1	11.8	

N.126+00; 0+00 = W. 6823.45

0			8.9	12.0	
E100			9.9	11.0	
E200			10.2	10.7	
E272			10.6	10.3	
E275			10.2	10.7	Shldr.
W100			7.5	13.4	
W200			6.0	14.9	
W300			5.9	15.0	
N.345			5.7	15.2	

N.126+00 CONTD WEST

Sta	+	H.I.	−	Elev	
W400		20.91	7.2	13.7	
W500			7.1	13.8	
W600			7.8	13.1	
W700			9.6	11.3	

N.128+00; 0+00 = W. 6780.16

0			8.3	12.6	
E100			9.6	11.3	
E200			9.9	11.0	
E270			11.2	9.7	
E272			10.9	10.0	Shldr
W100			7.7	13.2	
W200			7.3	13.6	
W300			7.3	13.6	
W400			7.0	13.9	
W500			6.8	14.1	
W600			8.0	12.9	

N.130+00; 0+00 = W 6736.86

0			7.9	13.0	
E100			9.0	11.9	
E200			10.2	10.7	
E266			10.7	10.2	
E270			10.3	10.6	Shldr.
W100			6.6	14.3	
W200			6.3	14.6	

N. 130+00 CONTD WEST

Sta	+	H.I.	−	Elev	
W 300		20.91	7.5	13.4	
W 400			6.9	14.0	
W 500			7.7	13.2	
W 600			8.4	12.5	
W 700			10.2	10.7	
					BC Mon. N13090.96 W6717.19
B.M. (Side Shot)			7.93	12.98	
T.B.M.			7.81	13.10	Hi-Way W. Side bolt W. Side Sly. barricade Post + N1317
	7.70	20.80			
N. 132+00; 0+00 = W. 6693.57					
0			6.8	14.0	
E 100			8.8	12.0	
E 200			9.8	11.0	
E 283			9.8	11.0	Shldr.
W 100			5.7	15.1	
W 200			5.8	15.0	
W 300			5.2	15.6	
W 400			6.3	14.5	
W 500			7.0	13.8	
W 600			7.9	12.9	
W 700			8.1	12.7	

N 134+00; 0+00 = W 6650.28

Sta	+	H.I.	−	Elev	
0		20.80	6.9	13.9	
E 100			8.1	12.7	
E 200			9.0	11.8	
E 266			9.1	11.7	Shldr.
W 100			4.9	15.9	
W 200			5.1	15.7	
W 300			4.8	16.0	
W 400			6.3	14.5	
W 500			6.4	14.4	
W 600			7.1	13.7	
W 700			7.8	13.0	
W 800			8.9	11.9	
N. 136+00; 0+00 = W. 6607					
0			7.2	13.6	
E 100			9.2	11.6	
E 200			9.1	11.7	
E 241			8.7	12.1	Shldr.
W 100			5.9	14.9	
W 200			4.6	16.2	
W 300			5.3	15.5	
W 400			5.7	15.1	
W 500			5.3	15.5	
W 600			5.9	14.9	
W 700			6.9	13.9	

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N.138+00; 0+00 = W. 6,563.70

Sta	+	H.I.	-	Elev	
0		20.80	8.4	12.4	
E100			9.2	11.6	
E190			8.8	12.0	
E197			8.1	12.7	Shldr.
W100			7.2	13.6	
W170			5.7	15.1	
W200			5.8	15.0	
W300			5.7	15.1	
W400			5.1	15.7	
W500			5.8	15.0	
W600			5.8	15.0	
W700			5.9	14.9	
W800			6.9	13.9	
W900			7.5	13.3	

N.140+00; 0+00 = W. 6520.40

NOTE: This Sec Would Cross drain Ditch
Sec. is Taken along Side Av. Grade

0			9.7	11.1	
E100			8.9	11.9	
E124			9.0	11.8	N.Gr.
W100			8.9	11.9	
W200			7.5	13.3	
W300			6.0	14.8	
W400			6.4	14.4	

N.140+00 CONTD. WEST.

Sta	+	H.I.	-	Elev	
W500		20.80	6.4	14.4	
W600			6.3	14.5	
W700			6.8	14.0	
W800			6.7	14.1	
W900			7.6	13.2	
W1000			8.9	11.9	"2x2" Hub N 14200 W 6477.11
TP.			9.52	11.28	
	6.02	17.30			

N.142+00; 0+00 = W. 6,477.11

0			6.0	11.3	
E52			6.9	10.4	N.Gr.
W100			5.5	11.8	
W200			5.0	12.3	
W300			4.5	12.8	
W400			4.0	13.3	
W500			4.5	12.8	
W600			4.2	13.1	
W700			4.4	12.9	
W800			4.3	13.0	
W900			5.3	12.0	
W1000			5.9	11.4	

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N.144+00; 0+00 = W.6500.97

Sta	+	H.I.	−	Elev	
0		17.30	5.9	11.4	
E 100			6.8	10.5	
E 117			3.5	13.8	N.Gr.
W.100			5.3	12.0	
W 200			5.2	12.1	
W 300			4.2	13.1	
W 400			4.1	13.2	
W 500			4.3	13.0	
W 600			4.6	12.7	
W 700			4.8	12.5	
W 800			5.2	12.1	
W 900			5.9	11.4	

N.146+00; 0+00 = W.6575.27

0			5.7	11.6	
E 100			6.4	10.9	
E 164			6.4	10.9	
E 169			3.2	14.1	N.Gr.
W.100			5.6	11.7	
W 200			5.3	12.0	
W 300			4.5	12.8	
W 400			4.2	13.1	
W 500			4.6	12.7	
W 600			5.1	12.2	
W 700			5.9	11.4	

N.146+00 CONTD WEST

Sta	+	H.I.	−	Elev	
W 800		17.30	6.5	10.8	
W 900			6.9	10.4	

N.148+00; 0+00 = W.6649.58

0			6.0	11.3	
E 100			6.2	11.1	
E 200			6.5	10.8	
E 208			6.3	11.0	
E 212			3.4	13.9	N.Gr.
W.100			6.0	11.3	
W 200			4.8	12.5	
W 300			4.8	12.5	
W 400			4.6	12.7	
W 500			5.2	12.1	
W 600			6.1	11.2	

N.150+00; 0+00 = W.6723.88

0			6.3	11.0	
E 100			6.2	11.1	
E 200			6.9	10.4	
E 243			6.4	10.9	
E 245			4.9	12.4	N. Gr.
W 100			5.6	11.7	
W 200			4.8	12.5	
W 300			4.7	12.6	
W 400			5.5	11.8	

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NOTE: This Sec. Taken on Av. Ground Alongside Ditch

N. 152+00; 0+00 = W. 6798.18

Sta	+	H.I.	-	Elev	
0		17.30	5.2	12.1	
E 100			6.0	11.3	
E 200			6.5	10.8	
E 277			7.1	10.2	
E 282			4.5	12.8	N.Gr.
W 100			4.3	13.0	
W 200			4.3	13.0	
W 300			5.8	11.5	

N. 154+00; 0+00 = W 6872.49

TP.			5.44	11.86	
	5.17	17.03			
0			5.2	11.8	
E 100			5.7	11.3	
E 200			6.4	10.6	
E 274			5.8	11.2	
W 100			4.8	12.2	
W 153			4.8	12.2	
W 200			5.4	11.6	
E 250			6.7	10.3	

NOTE: New fill Meets Existing fill @ N 160+50 ±

N 156+00; 0+00 = W 6946.79

Sta	+	H.I.	-	Elev	
0		17.03	4.7		
W 100			5.2	11.8	
E 100			5.6	11.4	
E 200			6.1	10.9	
E 279			6.2	10.8	
E 286			5.3	11.7	N. Gr.

N. 158+00; 0+00 = W 7021.10

0		5.3	11.7	
E 100		6.2	10.8	
E 200		6.5	10.5	
E 237		6.5	10.5	
E 281		5.6	11.4	N. Gr.

N. 160+00; 0+00 = W. 7095.40

0	6.1	10.9	
W 37	6.5	10.5	
W 56	11.2	5.8	
W 95	13.2	3.8	
E 100	5.7	11.3	
E 200	6.5	10.5	
E 215	6.9	10.1	
E 220	6.1	10.9	
E 286	6.3	10.7	EC. Mon. N 15431.20 W 6884.08
B.M. (Side Shot)	5.03	12.00	
B.M. Chis'd in E. Culv. Hdwall Hi-Way Sta. 182+25	3.50	13.53 ~ 13.53 MB. 90, Pg. 51	

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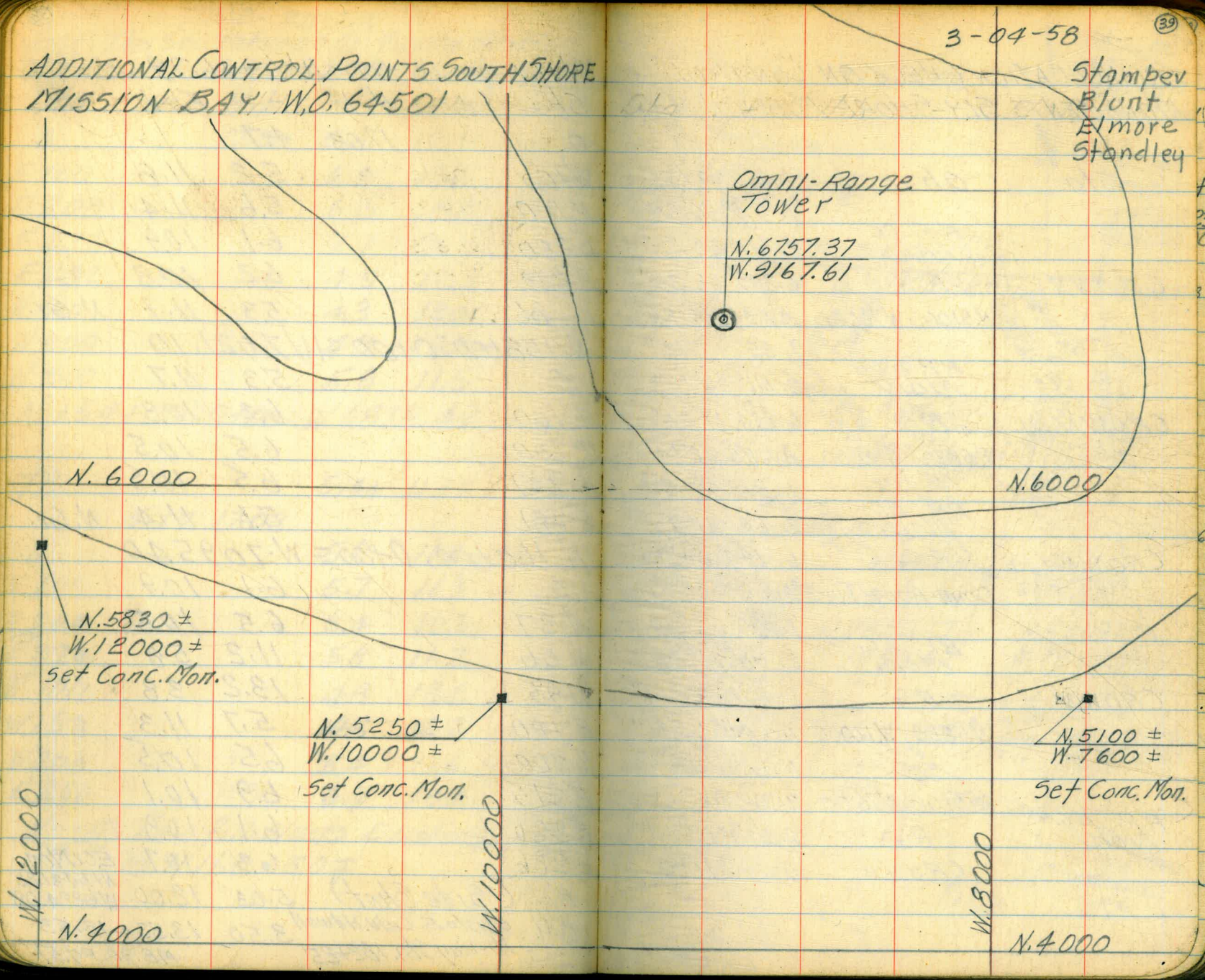
ADDITIONAL CONTROL POINTS SOUTH SHORE MISSION BAY W.O. 64501



TRIANGULATION CHECK ON CONTROL MONUMENTS SLY SHORE MISSION BAY

Sta	Object	Angles
		1. 34°56'30"
	RP EC Mon.	2. 69°52'55"
CROWN	R 7	6.209°38'36"
	N.5100; W7600	Av. 34°56'26"
		1. 55°43'15"
	RP. EC. Mon.	2. 111°26'10"
CROWN	R 7	6.334°17'24"
	N5830; W12000	Av. 55°42'54"
		1. 31°50'50"
	RP. E.C. Mon.	2. 63°41'40"
CROWN	R 7	6. 191°04'15"
	Omni-Range Twr.	Av. 31°50'42.5"
		1. 45°05'25"
	RP. EC. Mon.	2. 90°11'00"
CROWN	R 7	6. 270°33'06"
	N5250; W.10000	Av. 45°05'31"
		1. 96°10'55"
	N.5100; W7600	2 192°21'35"
RP. EC. Mon.	R 7	6. 577°04'30"
	CROWN	Av. 96°10'45

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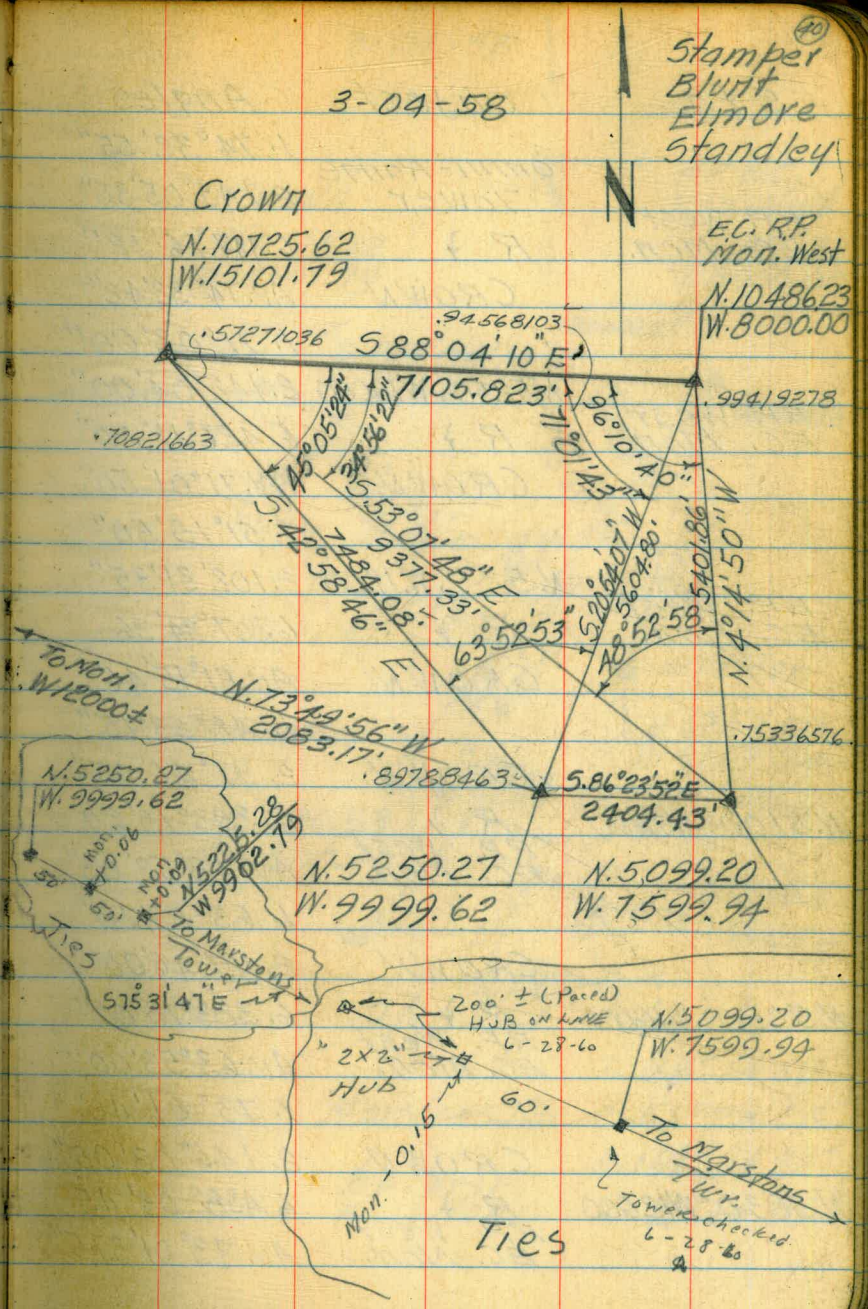
Stamper
Blunt
Elmore
Standley



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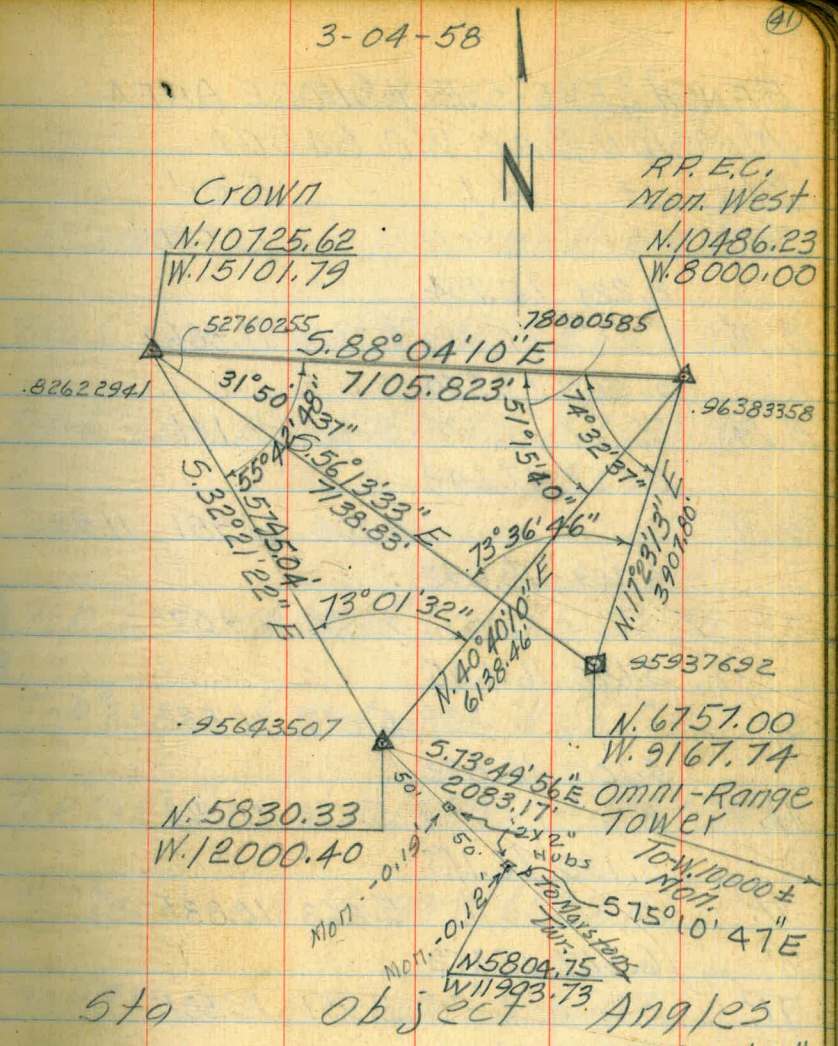
Sta.	object	Angles
		1. 74°32'55"
	omni-Range Tower	2. 149°05'35"
RP. West EC. Mon.	R ↗	6. 447°16'12"
	CROWN	Av. 74°32'42"
		1. 71°02'00"
	N5250; W10000	2. 142°04'00"
RP. West EC. Mon.	R ↗	6. 426°11'00"
	CROWN.	Av. 71°01'50"
		1. 51°15'50"
	N.5 ; W.12000	2. 102°31'35"
RP. West EC. Mon.	R ↗	6. 307°34'36
	CROWN	Av. 51°15'46"
		1. 48°53'15"
	CROWN	2. 97°46'05"
N.5100; W7600	R ↗	6. 293°18'20
	RP. West EC. Mon.	Av. 48°53'03"
		1. 63°53'10"
	CROWN	2. 127°46'00"
N.5250; W10000	R ↗	6. 383°18'00"
	RP. West EC. Mon.	Av. 63°53'00"
		1. 73° 01'40"
	CROWN	2. 146° 03'05"
N.5830; W12000	R ↗	6. 438° 09' 45
	RP. West EC. Mon.	Av. 73° 01'37.5"



Sta	Object	Angles
		1. 28°14'10"
	Marstons Twr	2. 56°28'20"
CROWN	↙	6. 169°24'30"
	RP. West EC. Mon	Av. 28°14'05"

BENCH LEVELS ELY SHORE AREA
MISSION BAY W.O. 64501

Sta	+	H.I.	-	Elev		
B.M.				13.530		
	2.224	15.754				
B.M.			3.768	11.986		
	5.563	17.549				
B.M.			5.408	12.141		
	5.558	17.699				
B.M.			5.708	11.991	11.986	
	6.709	18.695				
T.P.			7.788	10.907		
	5.698	16.605				
T.P.			5.073	11.532		
	5.100	16.632				
T.P.			5.669	10.963		
	5.190	16.153				
T.P.			5.268	10.885		
	6.567	17.452				
T.P.			3.951	13.501		
	5.554	19.055				
T.P.			5.127	13.928		
	7.850	21.778				
B.M.			8.858	12.920		
	4.589	17.509				
T.P.			5.573	11.936		

3-13-58 Stamper Pope, Blunt Standley

Chiseled □ E. Culv. Headwall Hi-Way Sta. 18325

Top 6" Conc. Mon. N. 15,431.20; W. 6884.08

Top 6" Conc. Mon. N. 1584513; W. 7,037.86

Top "2×2" Hub. N. 15,000; W. 6723.88

Top "2×2" Hub N. 14 6000; W. 6575.27

Top "2×2" P.I. Hub N. 14285.79; W 6458.54

Top "2×2" Hub N. 14000 W. 6520.40

Top "2×2" Hub N. 13,600; W. 6607

Top 2×2 Hub N 13,200; W. 6693.57

Top 6" Conc. Mon. N. 12895.43; W. 6759.50

Top "2×2" Hub N. 12600; W. 6823.45

BENCH LEVELS ELY SHORE CONT'D.

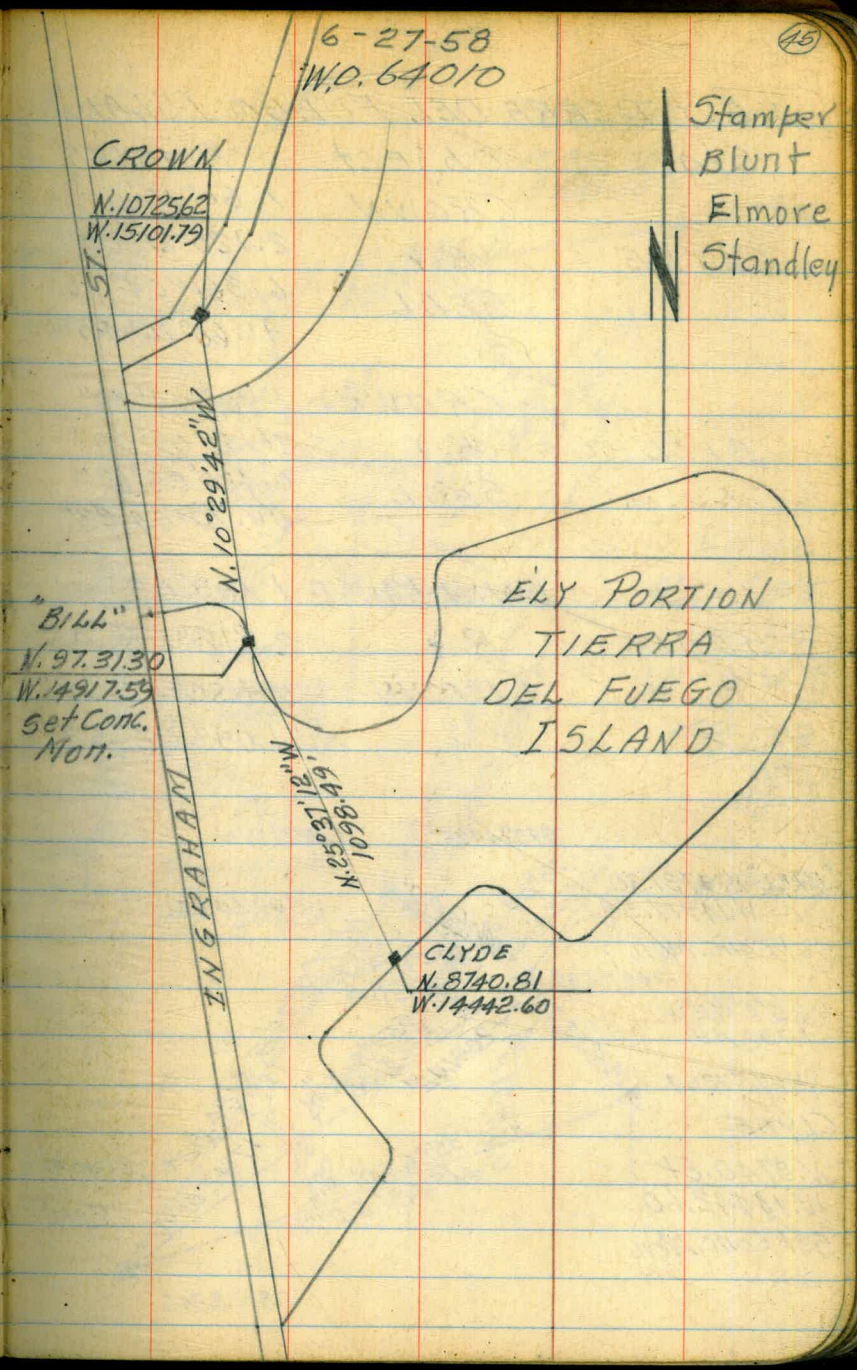
Sta	+	H.I.	-	Elev.	
				11.936	
	6.600	18.536			
TP.			4.536	14.000	Top "2×2" Hub N. 12,200; W 6910.04
	4.725	18.725			
BM.			4.843	13.882	Top 6" Conc. Mon. N 11800; W. 6996.62
	4.378	18.260			
TP.			5.463	12.797	Top "2×2" Hub N. 11,400; W. 7083.21
	6.131	18.928			
TP.			5.262	13.666	Top "2×2" Hub N. 11,000 W. 7169.79
	4.951	18.617			
TP			5.719	12.898	Top "2×2 Hub N. 10,600 W. 7256.38
	5.751	18.649			
BM			4.782	13.57 ~~13.867~~	Top 6" Conc. Mon. N. 10,486.23 W. 7281.00
	5.633	19.500			
TP			4.005	15.495	Top Guard Stake
	4.183	19.678			
TP			5.998	13.680	Top Guard Stake
	4.912	18.592			
BM			5.562	13.030 ?	Top 6" Conc. Mon. N. 10,486.23 W. 8000.00
	4.218	17.248			
TP			5.774	11.474	Top Guard Stk.
	5.223	16.697			
TP			4.838	11.859	Top Guard Stk.

BENCH LEVELS E'LY SHORE AREA

STA	+	H.I.	−	ELEV.	
				11.859	
	5.801	17.660			
TP			4.066	13.594	
	4.791	18.385			
TP			4.000	14.385	
	4.326	18.711			
BM			3.885	14.826	Top 6" Conc. Mon. N.9187.40 W.7220.34
	3.987	18.813			
TP			4.915	13.898	Top of Guard Stk.
	5.095	18.993			
TP			5.438	13.555	Top "2x2" Hub N.8400.00 W.6971.01
	5.421	18.976			
BM			5.162	13.814	Top 6" Conc. Mon. N.8000.00 W.6844.35
	2.830	16.644			
CK. BM			2.866	13.778 = 13.79 MB30 T5	BP in Bridge 57-44 101 Hwy (MK'D 7.74)
BM				~~13.814~~ Sommermeyer 12.49	Top 6" Conc. Mon. N.8000.00 W.6844.35 {SEE ABOVE
	2.343	16.157			
TP			2.449	13.708	Top Guard Stk.
	4.319	18.027			
TP			6.009	12.018	Top "2x2" Hub MK'D Center 152' Radius
	5.562	17.580			
TP			9.641	7.939	Top of Guard Stk. (Cont'd on Page 47)

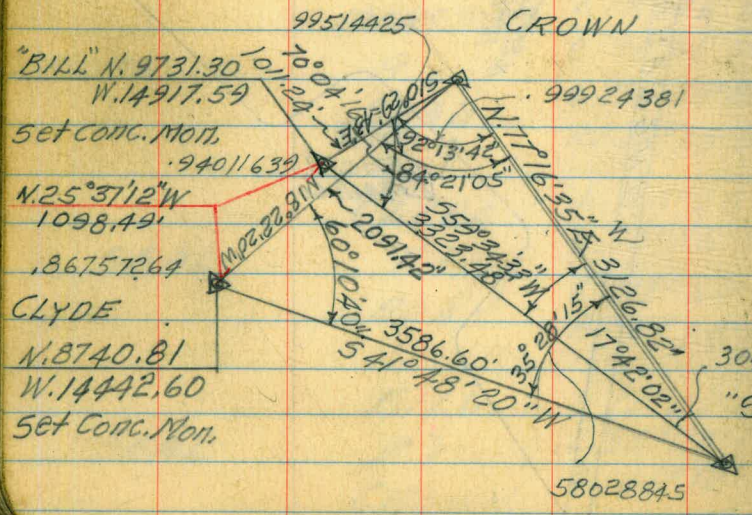
△ SHORE CONTROL ELY TIERRA DEL FUEGO ISLAND MISSION BAY

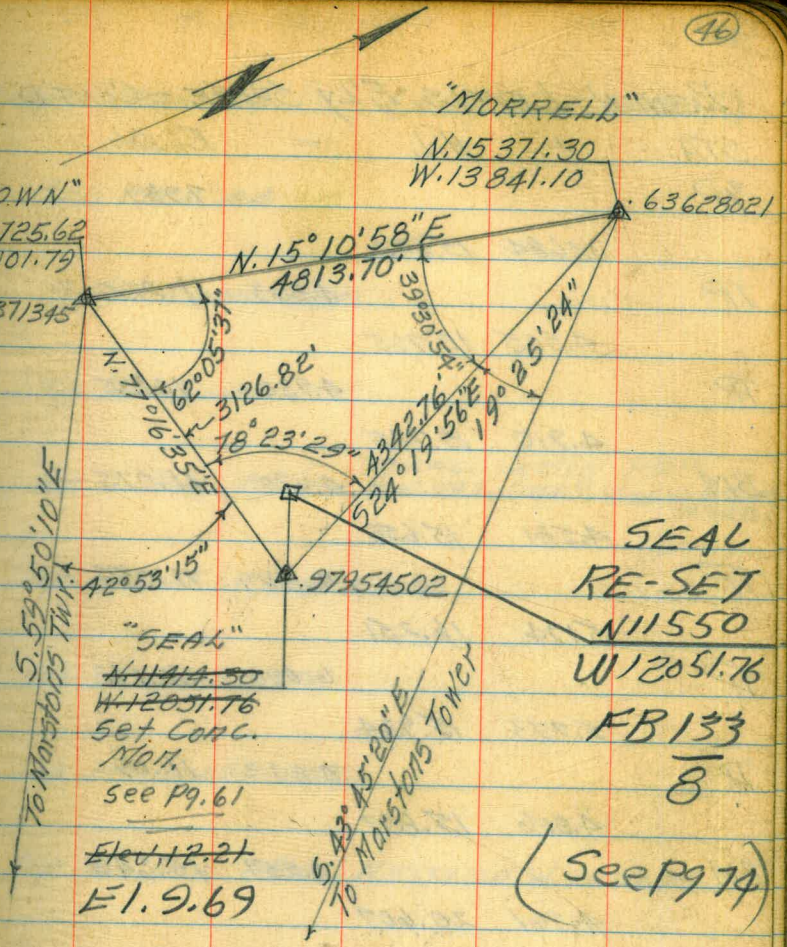
Sta	Object	Angles
	SEAL	1. 42°53'30"
CROWN	R ↴	2. 85°46'45"
	MARSTONS TWR.	6. 257°19'30"
		AV. 42°53'15"
		1. 92°13'55"
	SEAL	2. 184°27'50"
CROWN	R ↴	6. 553°22'48"
	BILL	AV. 92°13'48"
		1. 84°21'05"
	SEAL	2. 168°42'00"
CROWN	R ↴	6. 506°06'54"
	CLYDE	AV. 84°21'09"
	MARSTONS	1. 19°25'30"
	R ↴	2. 38°51'05"
MORRELL	SEAL	6. 116°32'24"
		AV. 19°25'24"
	CLYDE	1. 35°28'25"
	R ↴	2. 70°56'55"
SEAL	CROWN	6. 212°50'00"
		AV. 35°28'20"
	BILL	1. 17°42'10"
	R ↴	2. 35°24'15"
SEAL	CROWN	6. 106°12'48"
		AV. 17°42°08"



Δ ELY TIERRA DEL FUEGO ISLAND

Sta.	Object	Angles
	CROWN	1. 60°10'50"
CLYDE	R ↓	2. 120°21'25"
	SEAL	6. 361°04'30"
		Av. 60°10'45"
	CROWN	1. 70°04'30"
BILL	R ↓	2. 140°09'00"
	SEAL	6. 420°26'12"
		Av. 70°04'22"
	OMNI-RANGE	1 109°02'50"
SEAL	R ↓	2 218°05'45"
	CROWN	6. 654°17'18"
		Av. 109°02'53"





BENCH LEVELS E'LY SHORE – CONT'D

STA.	+	H.I.	–	ELEV.
TP				7.939
	7.684	15.623		
TP			4.363	11.260
	4.505	15.765		
TP			4.930	10.835
	4.910	15.745		
BM			4.670	11.075
	4.581	15.656		
TP			4.599	11.057
	5.194	16.251		
TP			6.090	10.161
	5.773	15.934		
TP			4.843	11.091
	4.806	15.897		
BM			0.251	15.646
	4.961	20.607		
TP			5.332	15.275
	5.805	21.080		
TP			4.010	17.070
	4.917	21.987		
TP			5.254	16.733
	4.311	21.044		
TP			5.687	15.357
		(CONT'D)		

FROM PAGE 44 (HAZY SUN & BREEZY)

SEE PAGE 44

Top of GUARD STK.

Top of GUARD STK.

Top 6" CONC. MON. TRIANGULATION MON. 9F282. (200' W. of W. RADIO TOWER)

Top of BOLT IN CONC. FLOOR

Top of GUARD STK.

Top of GUARD STK.

Top 6" CONC. MON. N.5099.20 W.7599.94

Top of GUARD STK.

Top of GUARD STK.

Top of GUARD STK.

Top of GUARD STK.

BENCH LEVELS E'Ly & S'Ly SHORE - CONT'D

HAZY SUN & BREEZY

STA.	+	H.I.	−	ELEV	
TP				15.357	Top of Guard Stk.
	4.517	19.874			
BM			5.978	13.896	Top 1¼x1¼" Hub N. 5100.00 W. 9000.00
	2.856	16.752			
TP			4.702	12.050	Top "1¼x1¼" Hub N. 5100.00 W. 9400.00
	6.019	18.069			
TP			4.747	13.322	Top of Guard Stk.
	5.280	18.602			
BM			5.407	13.195	Top 6" Conc. Mon. N. 5250.27 W. 9999.62
	3.825	17.020			
TP			6.134	10.886	Top "1¼x1¼" Hub N. 5300.00 W. 10,400.00
	6.104	16.990			
TP			3.400	13.590	Top of Guard Stk.
	3.912	17.502			
TP			3.992	13.510	Top of Guard Stk.
	5.005	18.515			
TP			5.010	13.505	Top of Guard Stk.
	4.633	18.138			
TP			4.750	13.388	Top of Guard Stk.
	4.389	17.777			
TP			4.455	13.322	Top of Guard Stk.
	4.344	17.666			
BM			4.798	12.868	Top 6" Conc. Mon. N. 5830.33 W. 12,000.40

BENCH LEVELS ~ E'Ly & S'Ly SHORE (CONT'D)

STA.	+	H.I.	−	ELEV.	
BM				12.868	Top 6" Conc. Mon. N. 5830.33 W. 12,000.40
	4.397	17.265			
TP			3.937	13.328	Top of Guard Stk.
	3.127	16.455			
TP			6.664	9.791	Top "1½ x 1¼" Hub N. 5900.00 W 12,600.00
	5.941	15.732			
TP			2.270	13.462	Top of Guard Stk.
	3.500	16.962			
TP			4.325	12.637	" " " "
	3.469	16.106			
TP			3.915	12.191	Top of Bolt on "12x12" Timber
	5.034	17.225			
TP			3.575	13.650	Top of Guard Stk. N. 5600.00 W. 13700.00
	5.447	19.097			
TP			5.578	13.519	Top of Guard Stk.
	2.689	16.208			
TP			4.382	11.826	Top of Curb on Causeway
	4.463	16.289			
CK. BM			3.742	12.547 = 12.61	Pt. "Isle" L & T in Water Vault (Out) (See Page 52) } Intersection Ventura & Causeway

(.063)

Hazy Sun & Breeze

BENCH LEVELS E'ly TIERRA DEL FUEGO

STA.	+	H.I.	−	ELEV.
BM				10.835
	5.709	16.544		
TP			5.728	10.816
	5.220	16.036		
TP			5.469	10.567
	5.712	16.279		
BM			6.444	9.835
	2.677	12.512		
TP			4.684	7.828
	4.701	12.529		
BM			3.275	9.254
	5.991	15.245		
TP			1.232	14.013
	3.315	17.328		
TP			5.335	11.993
	4.782	16.775		
TP			5.186	11.589
	4.703	16.292		
TP			4.875	11.417
	5.104	16.521		
TP			4.660	11.861
	4.585	16.446		
TP			5.293	11.153

(CONT'D)

7-9-58 (50)

AREA CLEAR & BREEZY

PT. "CAUSEWAY" U.S.C.&G.S. MON. IN E. CURB CAUSEWAY N. OF SOUTH BRIDGE

TOP OF GUARD STK.

" " " "

TOP 6" CONC. MON. "CLYDE" N.8740.81 W.14442.60

TOP OF GUARD STK.

TOP 6" CONC. MON. "BILL" N.9731.30 W.14917.59

TOP OF E. CURB, N. CAUSEWAY BRIDGE

TOP OF E. CURB CAUSEWAY

" " " "

" " " "

" " " "

" " " "

BENCH LEVELS E'LY TIERRA DEL FUEGO AREA (CONT'D)

CLEAR & BREEZY

STA.	+	H.I.	−	ELEV.	
TP				11.153	
	4.399	15.552			
CK. BM.			4.711	10.841 = 10.835	PT. "CAUSEWAY" (SEE PAGE 50)
BM				10.835	PT. "CAUSEWAY"
	6.369	17.204			
TP			0.738	16.466	PK. NAIL IN WALK SO. CAUSEWAY BRIDGE
	6.314	22.780			
TP			0.458	22.322	PK. NAIL IN BRIDGE DECK " "
	6.533	28.855			
TP			0.208	28.647	" " " " " " "
	6.637	35.284			
TP			3.852	31.432	" " " WALK " "
	0.568	32.000			
TP			6.641	25.359	" " " " " "
	0.865	26.224			
TP			7.031	19.193	" " " " " "
	0.434	19.627			
TP			7.051	12.576	Top OF GUARD STK.
	3.843	16.419			
TP			4.624	11.795	" " " "
	3.549	15.344			
TP			4.017	11.327	" " " "
	4.397	15.724			
TP			4.806	10.918	

(CONT'D)

7-9-58 (52)

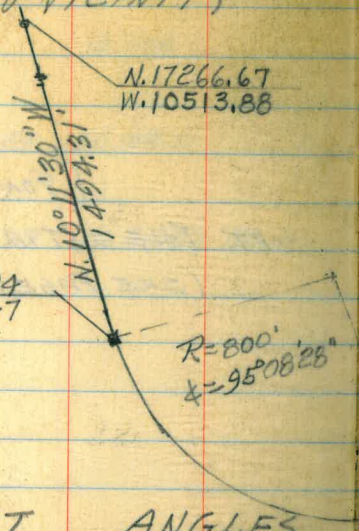
BENCH LEVELS E'LY TIERRA DEL FUEGO AREA (CONT'D) CLEAR & BREEZY

STA.	+	H.I.	−	ELEV.
TP				10.918
	5.267	16.185		
TP			5.240	10.945
	5.496	16.441		
CK.BM			3.777	12.664 = 12.61

(GONE)

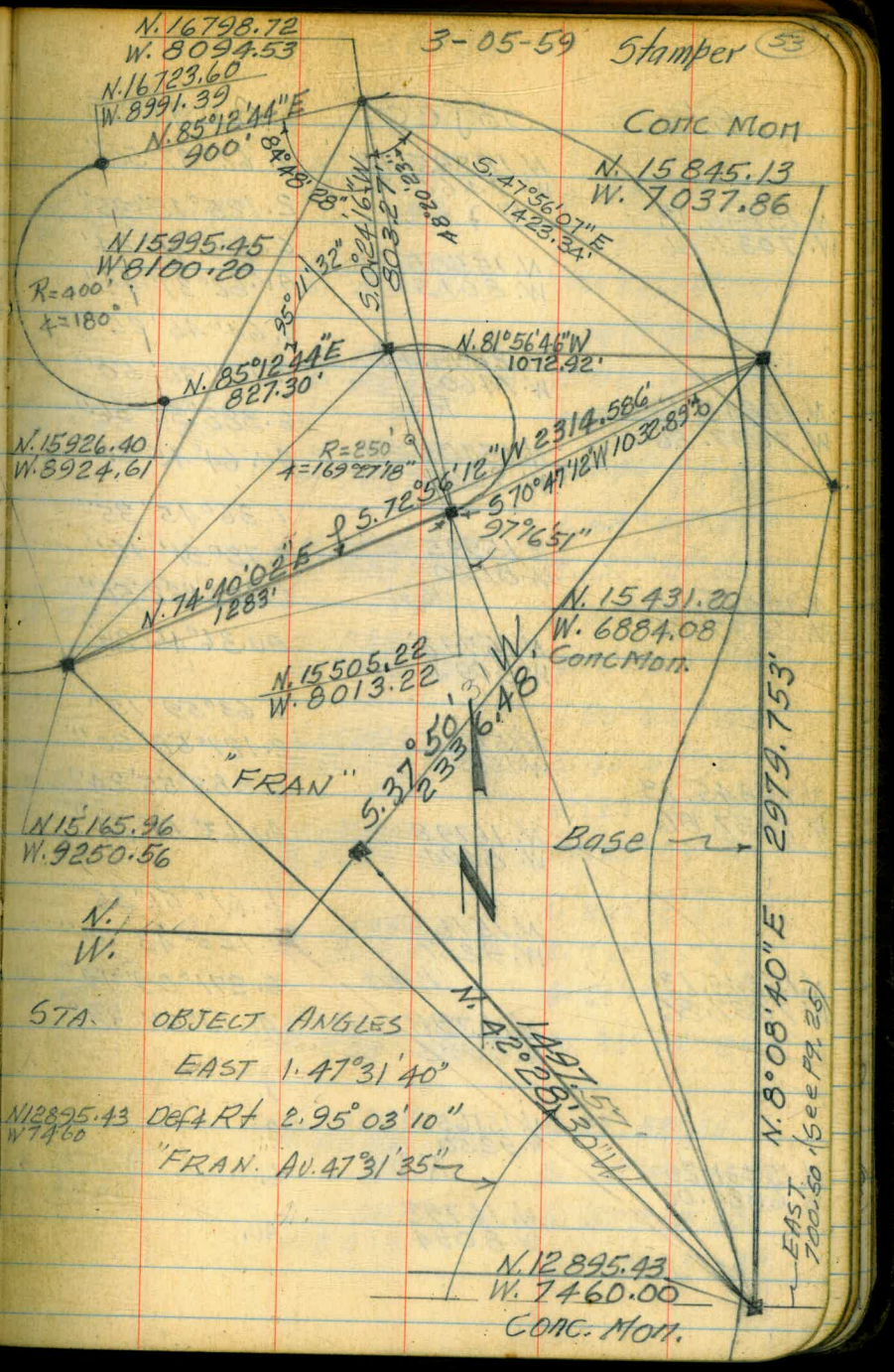
PT. "ISLE" L&T IN WATER VAULT (INTERSECTION VENTURA & CAUSEWAY)
(SEE PAGE 49) (OUT)

TRIANGULATION CONTROL MONUMENTS
MISSION BAY DE ANZA & VICINITY
W.O. 64501



STA.	OBJECT	ANGLES
N.15845.13 W.7037.86	N.12895.43 W.7460.00	1. 29°41'50"
	R	2. 59°23'40"
	FRAN.	6. 178°10'42"
		AV. 29°41'47"
	FRAN	1. 50°37'00"
N.12895.43 W.7460	R	2. 101°14'00"
	N.15845.13 W.7037.86	6. 303°42'30"
		AV. 50°37'05"
	N.15845.13 W.7037.86	1. 99°41'20"
FRAN.	R	2. 199°22'40"
	N.12895.43 W.7460.00	6. 598°07'18"
		AV. 99°41'13"

3-05-59 Stamper (53)



STA.	OBJECT	ANGLES
	EAST	1. 47°31'40"
N12895.43 W7460	Def4 Rt	2. 95°03'10"
	"FRAN.	AV. 47°31'35"

Sta	object	Angles
N.15845.13 W.7037.86	N.12895.43 W.7460 R→	1. 62°37'50" 2. 125°15'35"
	N.15505 W.8013	6. 375°46'24" Av. 62°37'44"
N.15845.13 W.7037.86	N.12895.43 W.7460 R→	1. 64°45'25" 2. 129°30'50" 6. 388°32'36"
	N.15165 W.9250	Av. 64°45'26"
N.15845.13 W.7037.86	N.15995 W.8100 R→	1. 36°45'35" 2. 73°31'10" 6. 220°32'56"
	N.16798 W.8094	Av. 36°45'29"
N.15845.13 W.7037.86	N.15505 W.15995 R→	1. 63°59'15" 2. 127°58'20" 6. 383°55'24"
	N.16798 W.8094	Av. 63°59'14"
N.15845.13 W.7037.86	N.15165 W.9250 R→	1. 61°51'35" 2. 123°43'00" 6. 371°09'14"
	N.16798 W.8094	Av. 61°51'32"
N.15431.20 W.6884.08	N.15165 W.9250 R→	1. 2. 6.
	N.16798 W.8094	Av.

3-06-59 (54)

Sta.	Object	Angles
N.12895.43 W.7460.00	N.15165 W.9250 R→	1. 26°19'15" 2. 52°38'25"
	N.15505 W.8013	6. 157°54'28" Av. 26°19'05"
N.12895.43 W.7460.00	N.15165 W.9250 R→	1. 46°24'50" 2. 92°49'15" 6. 278°27'18" 278°26'48"
	N.15845.13 W.7037.86	Av. 46°24'33" 46 24.28"
N.15165 W.9250	N.15845.13 W.7037.86 R→	1. 68°49'55" 2. 137°39'55" 6. 413°00'18"
	N.12895.43 W.7460.00	Av. 68°50'03"
N.15165 W.9250	N.15995 W.8100 R→	1. 20°24'55" 2. 40°49'25" 6. 122°27'54"
	N.15505 W.8013	Av. 20°24'39"
N.15165 W.9250	N.16798 W.8094 R→	1. 36°15'25" 2. 72°30'50" 6. 217°32'40"
	N.15845.13 W.7037.86	Av. 36°15'26.5"
N.15165 W.9250	N.16798 W.8094 R→	1. 37°58'25" 2. 75°56'35" 6. 227°48'48"
	N.15505 W.8013	Av. 37°58'08"

Sta.	Object	Angles
N. 15165 W. 9250	N. 16798 W. 8094 R	1. 2.
	N. 15431.20 W. 6884.08	6. Av.
N. 15505 W. 8013	N. 15165 W. 9250 R	1. 95°15'55" 2. 190°31'25"
	N. 15995 W. 8100	6. 571°34'00" Av. 95°15'40"
N. 15505 W. 8013	N. 15165 W. 9250 R	1. 105°03'55" 2. 210°07'40"
	N. 16798 W. 8094	6. 630°23'00" Av. 105°03'50"
N. 15505 W. 8013	N 15995 W 8100 R	1. 80°54'05" 2. 161°48'10"
	N. 15845.13 W. 7037.86	6. 485°24'12" Av. 80°54'02"
N. 15505 W. 8013	N. 16798 W. 8094 R	1. 71°05'55" 2. 142°11'50"
	N. 15845.13 W. 7037.86	6. 426°35'30" Av. 71°05'55"
N. 15165 W. 9250	N. 15505 W. 8013 R	1. 67°07'10" 2. 134°14'40"
	N. 12895 W. 7460	6. 402°44'36" Av. 67°07'26"

Sta.	Object	Angles
N. 15505 W. 8013	N. 15845.13 W. 7037.86 R	1. 97°17'00" 2. 194°33'55"
	N. 12895.43 W. 7460.00	6. 583°41'00" Av. 97°16'50"
N. 15505 W. 8013	N. 12895.43 W. 7460.00 R	1. 86°33'40" 2. 173°07'20"
	N. 15165 W. 9250	6. 519°21'00" Av. 86°33'30"
N. 15995 W. 8100	N. 15505 W. 8013 R	1. 64°19'35" 2. 128°39'10"
	N. 15165 W. 9250	6. 385°57'06" Av. 64°19'31"
N. 15995 W. 8100	N. 15165 W. 9250 R	1. 131°20'00" 2. 262°39'55"
	N. 16798 W. 8094	6. 788°00'00" Av. 131°20'00"
N. 15995 W. 8100	N. 16798 W. 8094 R	1. 92°28'15" 2. 184°56'05"
	N. 15845.13 W. 7037.86	6. 554°47'48" Av. 92°27'58"
N. 15995 W. 8100	N. 15845.13 W. 7037.86 R	1. 71°52'30" 2. 143°45'00"
	N. 15505 W 8013	6. 431°15'06" Av. 71°52'31"

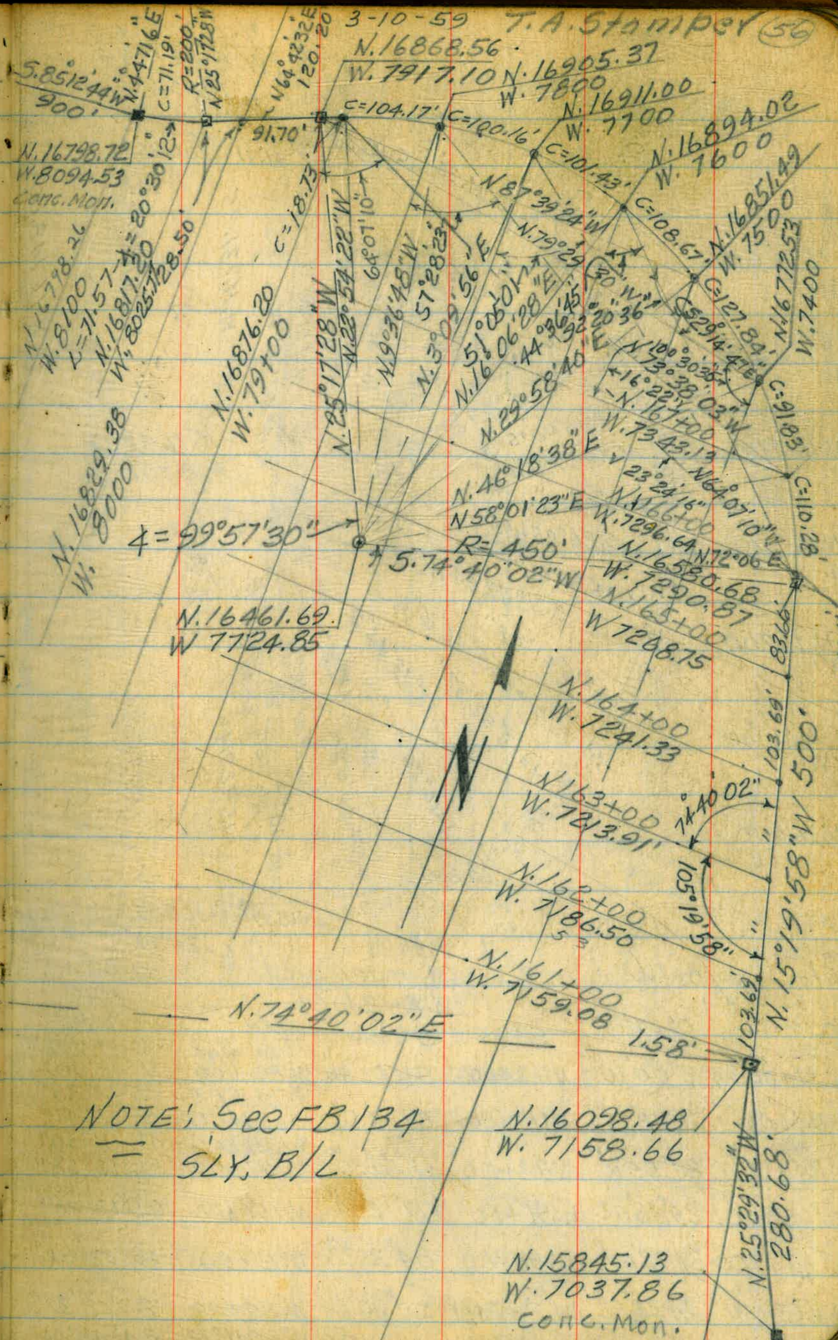
Sta.	Object	Angles
	N. 15845.13 W. 7037.86	1.
N. 16798 W. 8094	R→	2.
	N. 15165 W. 9250	6.
		Av.
	N. 15845.13 W. 7037.86	1. 44°55'15"
N. 16798 W. 8094	R→	2. 89°50'05"
	N. 15505 W. 8013	6. 269°30'06"
		Av. 44°55'01"
	N. 15845.13 W. 7037.86	1. 50°46'35"
N. 16798 W. 8094	R→	2. 101°33'05"
	N. 15995 W. 8100	6. 304°39'12"
		Av. 50°46'32"
	N. 15995 W. 8100	1. 31°06'30"
N. 16798 W. 8094	R→	2. 62°13'00"
	N. 15165 W 9250	6. 186°39'00"
		Av. 31°06'30"
	N 15505 W. 8013	1. 36°58'10"
N 16798 W 8094	R→	2. 73°56'05"
	N. 15165 W. 9250	6. 221°48'06"
		Av. 36°58'01"

3-11-59

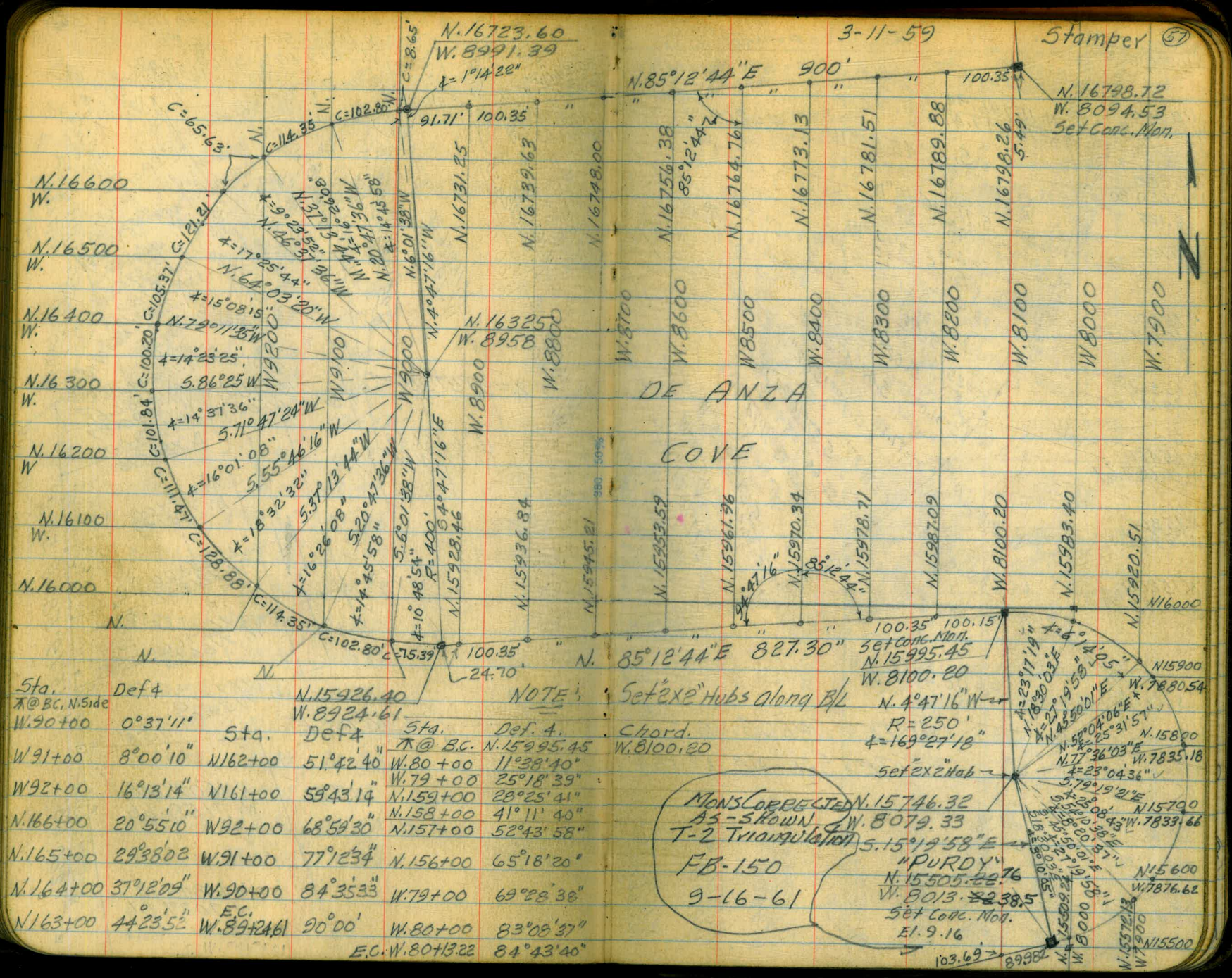
NOTE: FOR X-SEC'S & SOUNDINGS SEE M.B. 110

BASELINE LAYOUT FOR X-SEC'S & SOUNDINGS OF MISSION BAY DE ANZA POINT & VIC. W.O. 64501

Sta.	object	Def ∠	Chord	Bearing
d=3.819718	N.166+00	1°17'01"	20.16'	N16°36'59"W
B.C. Lt. N.16580.68 W.7290.87	N.167+00	8°19'19"	110.28'	
	W.74+00	14°10'42"	91.83'	
	W.75+00	22°20'41"	127.84'	
	W.76+00	29°16'47"	108.67'	
	W.77+00	35°45'03"	101.43'	
	W.78+00	42°08'25"	100.16'	
	W.79+00	48°47'12"	104.17'	
	E.C. W.79+17.10	49°58'45"	18.73'	
				EXT. ∠s WEST.
E.C. Mon N15745.94 W10249.47	N157+50	1°40'47"	46.90	78°07'43"
	N157+00	3°32'14"	51.86	76°16'16"
	N156+50	5°25'59"	52.93	74°22'31"
	N156+00	7°22'43"	54.32	72°25'47"
	N155+50	9°23'16"	56.10	70°25'14"
	N155+00	11°28'42"	58.37	68°19'48"
	N154+50	13°40'26"	61.30	66°08'04"
	N154+00	16°00'27"	65.15	63°48'03"
	N153+50	18°31'43"	70.38	61°16'47"
	N153+00	21°19'03"	77.85	58°29'27"
	N152+50	24°31'26"	89.49	55°17'04"
	N152+00	28°30'01"	110.95	51°18'29"



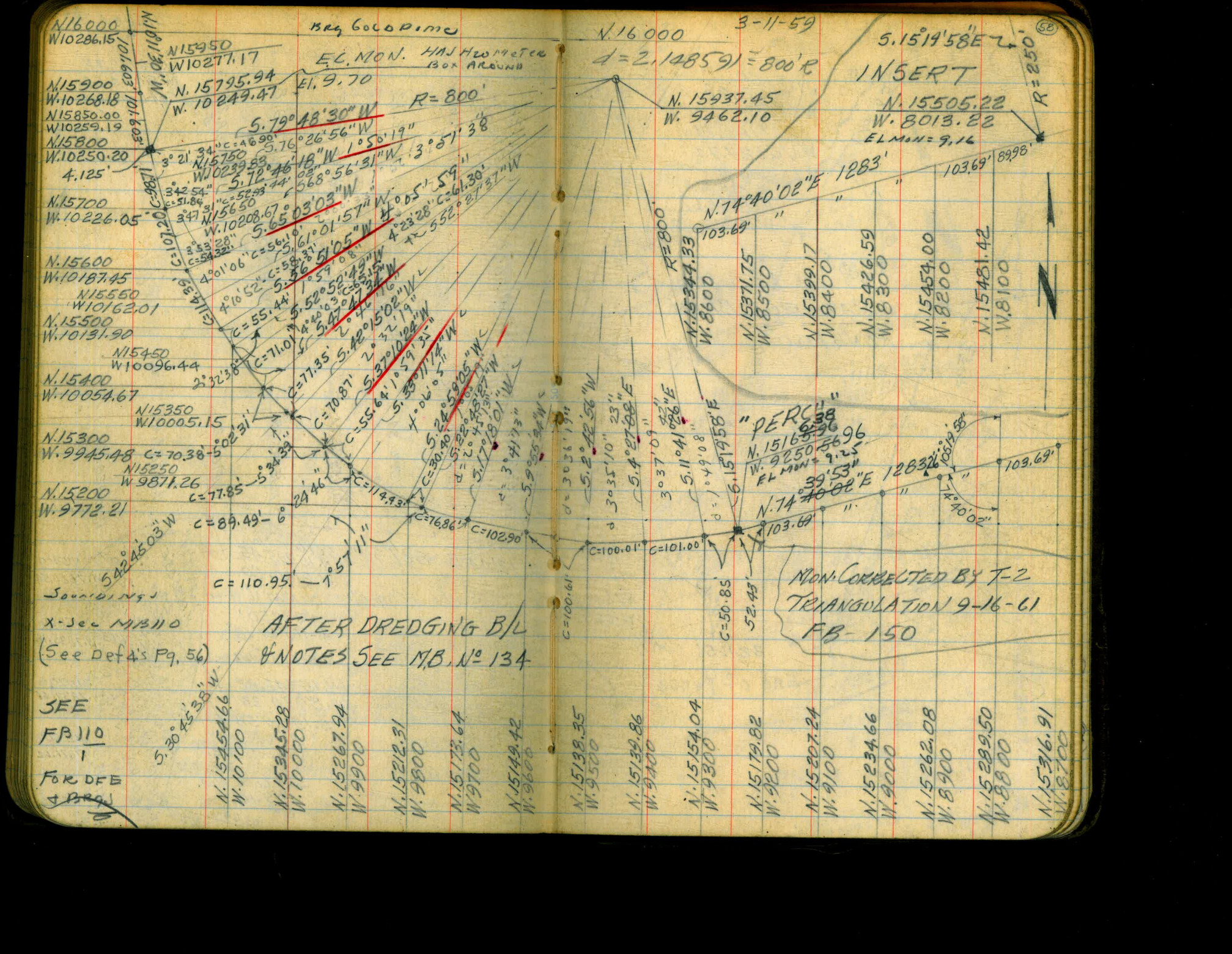
NOTE: See FB 134 SLY. B/L

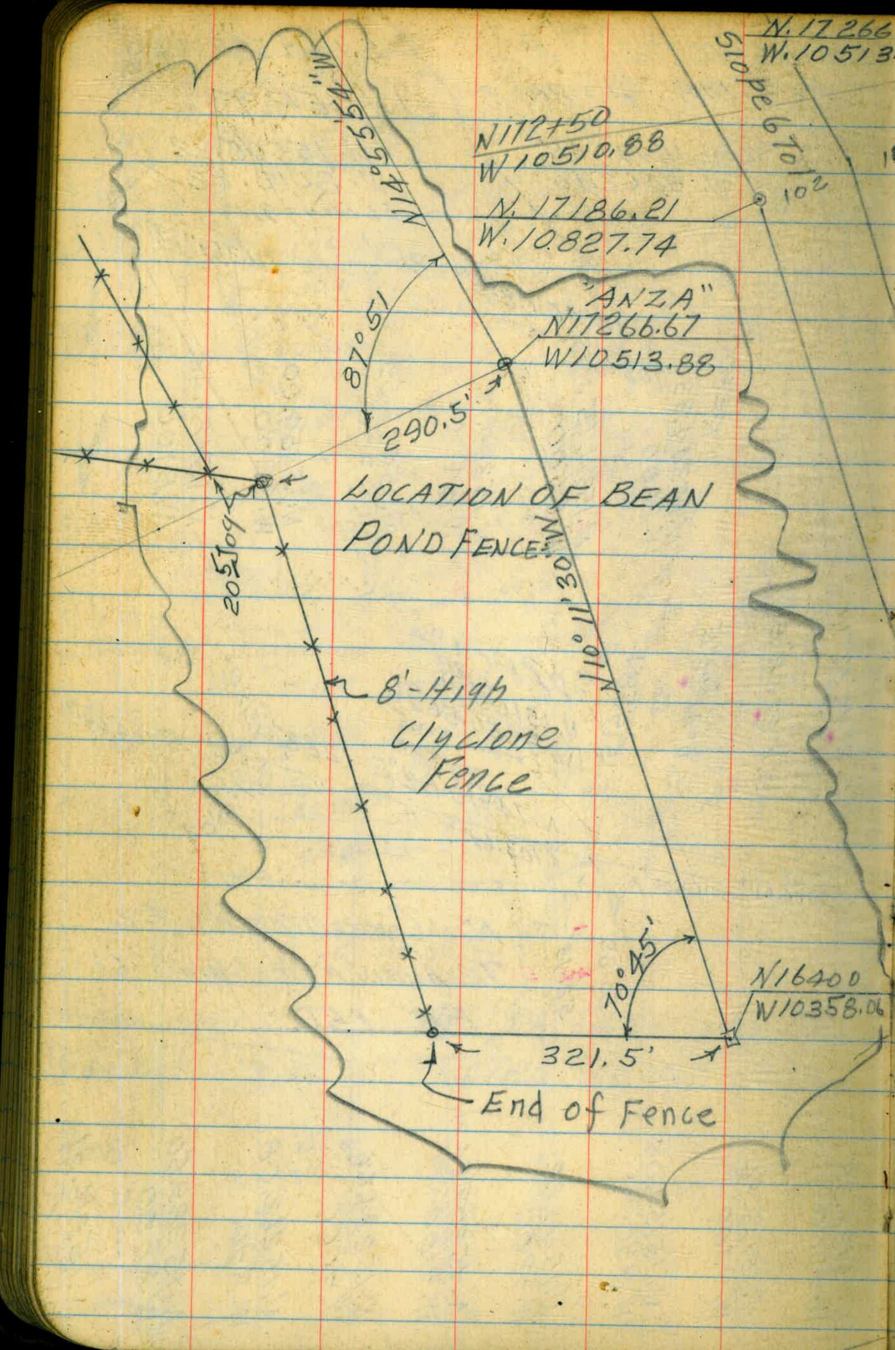


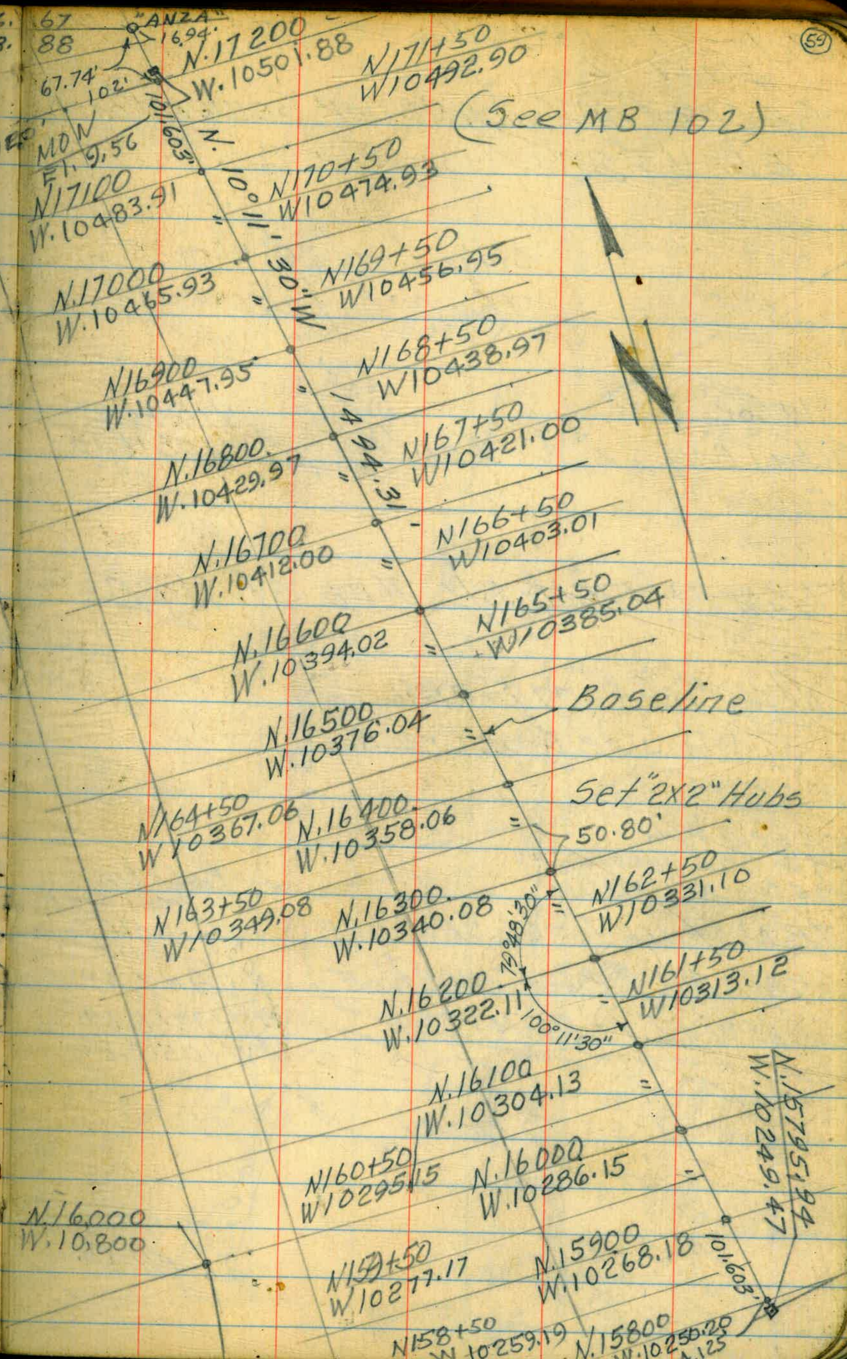
Sta.	Def 4
W.90+00	0°37'11"
W91+00	8°00'10"
W92+00	16°13'14"
N.166+00	20°55'10"
N.165+00	29°38'02"
N.164+00	37°12'09"
N163+00	44°23'52"

Sta.	Def 4
N162+00	51°42'40"
N161+00	59°43'14"
W92+00	68°59'30"
W.91+00	77°12'34"
W.90+00	84°35'33"
E.C. W.89+24.61	90°00'

Sta.	Def. 4.
Δ @ B.C. N.15995.45	
W.80+00	11°38'40"
W.79+00	25°18'39"
N.159+00	28°25'41"
N.158+00	41°11'40"
N.157+00	52°43'58"
N.156+00	65°18'20"
W.79+00	69°28'38"
W.80+00	83°08'37"
E.C. W.80+13.22	84°43'40"


N16000
W10286.15
N15950
W10277.17
N15795.94
W. 10 249.47
El. 9.70
R=800'
5.79°48'30"W
5.76°26'56"W
5.72°46'18"W
5.65°03'03"W
5.61°01'57"W
5.56°51'05"W
5.52°40'13"W
5.47°47'34"W
5.42°15'02"W
5.37°10'24"W
5.33°11'14"W
5.24°59'05"W
5.22°48'27"W
5.17°18'01"W
1°50'19"
3°51'38"
4°23'28"
4°01'06"
4°10'52"
2°46'16"
2°32'38"
2°19"
2°02'31"
5°34'39"
24'46"
1°57'11"
C=110.95'
C=89.49'
C=114.93'
C=76.86'
C=102.90'
C=100.01'
C=101.00'
C=100.61'
C=50.85'
52.45'
N15900
W.10268.18
N15850.00
W10259.19
N15800
W.10250.20
4.125'
N15700
W.10226.05
N15600
W.10187.45
N15550
W10162.01
N.15500
W.10131.90
N15450
W10096.44
N.15400
W.10054.67
N15350
W10005.15
N.15300
W.9945.48
N15250
W.9871.26
N.15200
W.9772.21
S42°45'03"W
S30°45'38"W
Sounding
X-Sec MB110
(See Def 4's Pg. 56)
SEE FB 110 I FOR DEF & DRGS
BRG GOLD DIME
E.C. MON. HAS HUBMETER BOX AROUND
AFTER DREDGING B/L & NOTES SEE M.B. Nº 134
3-11-59
N.16000
d=2.14859 = 800'R
N. 15937.45
W. 9462.10
R=800
N.15344.33
W.8600
N.15371.75
W.8500
N.15399.17
W.8400
N.15426.59
W.8300
N.15454.00
W.8200
N.15481.42
W.8100
N.74°40'02"E 1283'
103.69'
89.98'
INSERT
N. 15505.22
W. 8013.22
EL MON = 9.16
S.15°19'58"E
R=250'
"PERCH"
N. 15165.96
W. 9250.56
EL MON = 9.25
N.74°39'53"E 1283.26'
103.69'
Δ=40°02"
MON. CORRECTED BY T-2 TRIANGULATION 9-16-61
FB-150
N.15138.35
W.9500
N.15139.86
W.9400
N.15154.04
W.9300
N.15179.82
W.9200
N.15207.24
W.9100
N.15234.66
W.9000
N.15262.08
W.8900
N.15289.50
W.8800
N.15316.91
W.8700
N.15454.66
W.10100
N.15345.28
W.10000
N.15267.94
W.9900
N.15212.31
W.9800
N.15172.64
W.9700
N.15149.42
W.9600


N.17266.67
W.10513.88
Slope 6 To 1 102
N172+50
W10510.88
N.17186.21
W.10827.74
N14°55'54"W
"ANZA"
N17266.67
W10513.88
87°51'
290.5'
LOCATION OF BEAN
POND FENCE
205.1'
N10°11'30"W
8'-High
Clyclone
Fence
10°45'
321.5'
End of Fence
N16400
W10358.06
N.16000
W.10,800


"ANZA"
16.94'
67.74'
102'
MON
El. 9.56
N.17200
W.10501.88
101.603'
N171+50
W10492.90
(See MB 102)
N17100
W.10483.91
N.10°11'30"W
N170+50
W10474.93
N.17000
W.10465.93
N169+50
W10456.95
N16900
W.10447.95
N168+50
W10438.97
1494.31'
N.16800
W.10429.97
N167+50
W10421.00
N.16700
W.10412.00
N166+50
W10403.01
N.16600
W.10394.02
N165+50
W10385.04
Baseline
N.16500
W.10376.04
Set "2X2" Hubs
N164+50
W10367.06
N.16400
W.10358.06
50.80'
N163+50
W10349.08
N.16300
W.10340.08
79°48'30"
N162+50
W10331.10
N.16200
W.10322.11
100°11'30"
N161+50
W10313.12
N.16100
W.10304.13
N160+50
W10295.15
N.16000
W.10286.15
N.15795.94
W.10249.47
N159+50
W10277.17
N.15900
W.10268.18
101.603'
N158+50
W10259.19
N.15800
W.10250.20
A.125

TOP C.I. COVER COLV. SE. COR SEWER POND
Elev. 7.02

SECOR CON. COLV. NE COR SEWER POND
ELEV. 8.88

Stake Line 7.6' W of B/L
Throw of fence Area

N'ly Cor.
School Bdry
Fence

306'

80° 45'

N 18400
W 10816.10

(TBM N 17800, B/L HUB El. 11.08)

NOTE: See Pg. 77 For B/L.
W'LY. Side Rose Creek.

NOTE:
See FB 146
Pg 30 FOR PARTIAL &
RESOLVED 12/13/60

T.B.M. Chisled Top C.B. S.E.LY COR
GRAND AVE BRIDGE OVER ROSE
CREEK EL. 19.59-146.38

N 14° 55' 54" W

Baseline
(Nail Cor. Fence
Golf Course
Bdry
"ANZA"
N 17266.67
W 10513.88

57.93'

TIES TO NOT
"ANZA"

MB 102
8

196.09'

NON.

S'ly Line Grand Ave.

40' = E.P.K.

Ch 31 + 60 ±
Existing
Stabilizer

0.64

N. 18317.13
W. 11129.35

N 183+50
W 10802.77

N 182+50
W 10776.10

N 181+50
W 10749.44

N 180+50
W 10722.77

N 179+50
W 10696.10

N 178+50
W 10669.44

N 177+50
W 10642.77

N 176+50
W 10616.10

N 175+50
W 10589.44

N 174+50
W 10562.77

N 173+50
W 10536.10

N. 17186.21
W. 10827.74

N. 18400.62
W. 10816.27

N. 184+00
W. 10816.10

N. 183+00
W. 10789.44

N. 182+00
W. 10762.77

N. 181+00
W. 10736.10

N. 180+00
W. 10709.43

N. 179+00
W. 10682.77

N. 178+00
W. 10656.10

N. 177+00
W. 10629.43

N. 176+00
W. 10602.77

N. 175+00
W. 10576.10

N. 174+00
W. 10549.43

N. 173+00
W. 10522.77
"ANZA"
Set 2" Pipe

103.44'

51.74'

102'

120'

102'

75° 04'

N. 18,000

W. 11,000

1173.58'

104° 55' 54" W

N. 14° 55' 54" W

Slope 6 to 1

Slope 6 to 1

103.44'

34.49'

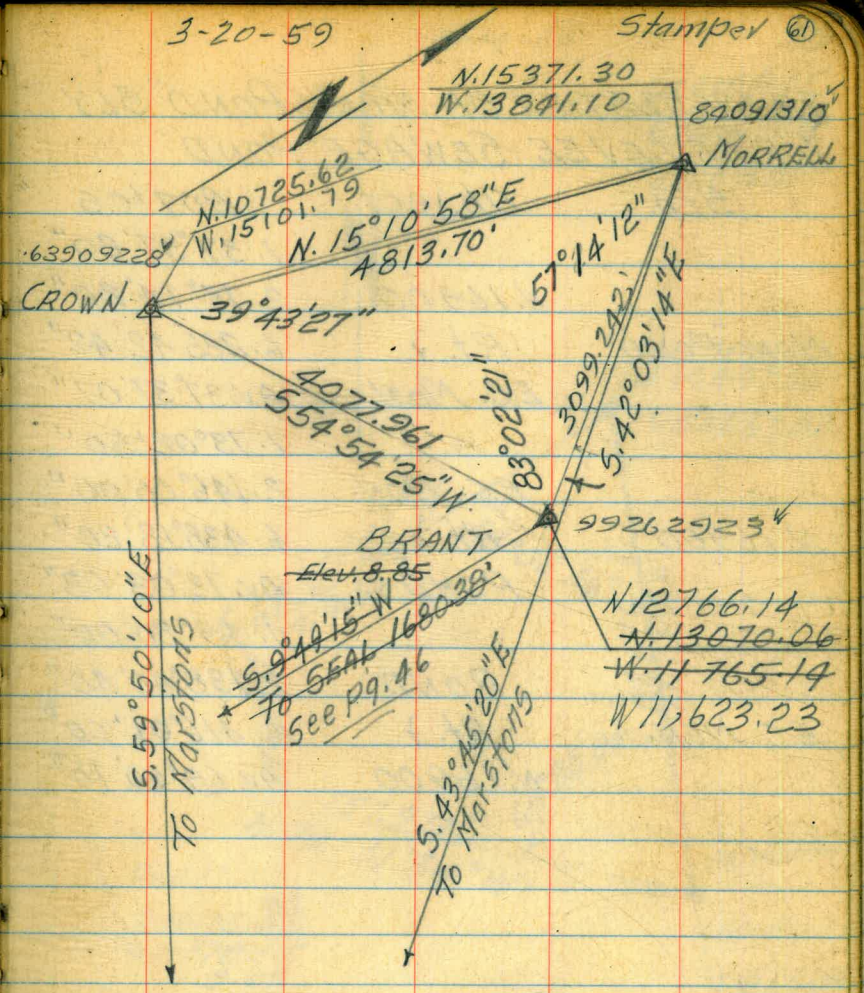
N. 17266.67
W. 10513.88

ROSE CREEK

TRIANGULATION OF MON. BRANT
N'ELY LAPATERA ISLAND MISSION BAY

Sta.	Object	Angles
	CROWN	1. 83°02'15"
BRANT	R ℄	2. 166°04'20"
	MORRELL	6. 498°13'36"
		Av. 83°02'16"
	BRANT	1. 65°15'30"
CROWN.	R ℄	2. 130°30'50"
	MARSTONS	6. 391°33'00"
		Av. 65°15'30"
	MARSTONS	1. 1°42'10"
MORRELL	R ℄	2. 3°24'35"
	BRANT	6. 10°13'06"
		Av. 1°42'11"

3-20-59 Stamper (61)



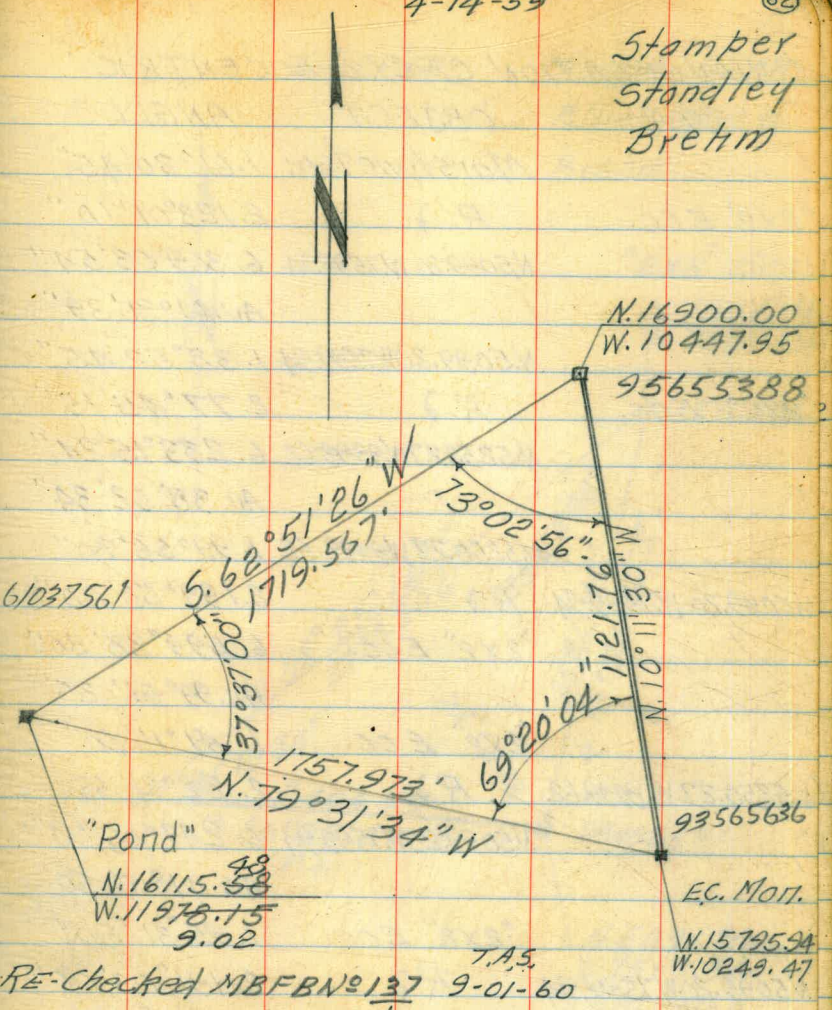
TRIANGULATION OF MON. "POND" SLY TOP OF LEVEE SEWAGE POND

Sta.	Object	Angles
		1. 37°37'20"
	N. 16900	2. 75°14'20"
MON. "POND"	Rt. ↴	6. 225°42'42"
	E.C. MON.	AV. 37°37'07"
		1. 73°02'50"
	E.C. MON.	2. 146°06'00"
N. 16900	Rt. ↴	6. 438°18'20"
	POND	AV. 73°03'03"
		1. 69°20'00"
	POND	2. 138°40'40"
E.C. MON.	Rt. ↴	6. 416°01'00"
	N. 16900	AV. 69°20'10"

4-14-59

(62)

Stamper
Standley
Brehm

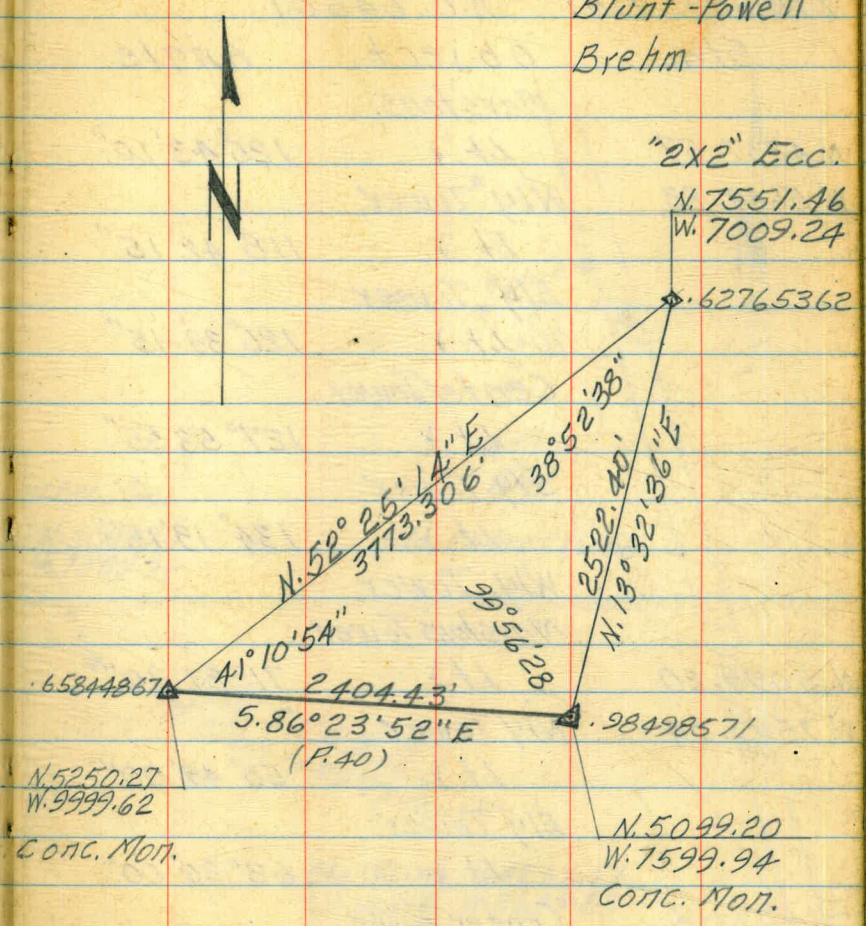


T.A.S.
RE-Checked MBFBN° 137/1 9-01-60

6-12-59 Stamper-Allen
Blunt-Powell
Brehm

TRIANGULATION OF "2X2" ECCENTRIC

STA	OBJECT	ANGLES
	Marstons Twr.	1. 61°30'45"
"2X2" ECC.	R 7	2. 123°01'10"
	N.5099.20 W.7599.94	6. 369°03'54"
		Av. 61°30'39"
	N.5099.20 W.7599.94	1. 38°52'45"
"2X2" ECC.	R 7	2. 77°45'15"
	N.5250.27 W.9999.62	6. 233°15'24"
		Av. 38°52'34"
	N.5250.27 W9999.62	1. 99°56'30"
N.5099.20 W.7599.94	R 7	2. 199°53'00"
	"2X2" ECC.	6. 599°38'30"
		Av. 99°56'25"
	"2X2" ECC.	1. 41°11'20"
N.5250.27 W.9999.62	R 7	2. 82°21'55"
	N.5099.20 W.7599.94	6. 247°05'00"
		Av. 41°10'50"
	"2X2" ECC.	1. 95°31'30"
N5099.20 W.7599.94	R 7	2. 191°03'00"
	Marstons. Twr.	6. 573°08'00"
		Av. 95°31'20"

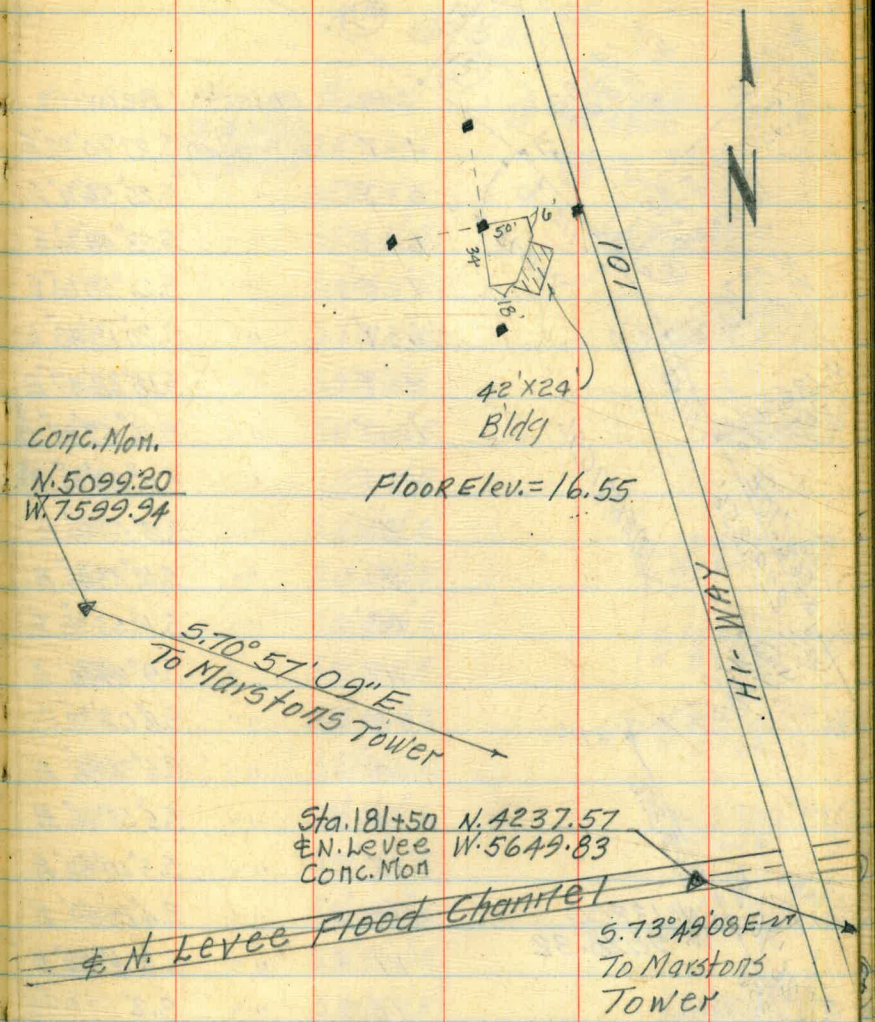


LOCATION OF RADIO TOWERS SELY. MISSION BAY W.O. 64501

Sta.	object	Angle
	Marstons.	
N. 4237.57	Lt 7	125°43'10"
W. 5649.83	Nly Tower	
	Lt. 7	118°42'15"
	Ely Tower	
	Lt. 7	126°39'15"
	Center Tower	
	Lt 7	127°53'55"
	Sly Tower	
	Lt. 7	134°19'15"
	Wly. Tower	
	Marstons Tower	
N. 5099.20	Lt 7	71°27'30"
W. 7599.94	Nly Tower	
	Lt. 7	58°49'00"
	Ely Tower	
	Lt. 7	63°30'00"
	Center Tower	
	Lt. 7	53°56'45"
	Sly. Tower	
	Lt. 7	69°52'00"
	Wly. Tower	
B.M.		17.39 Chisled

6-26-59

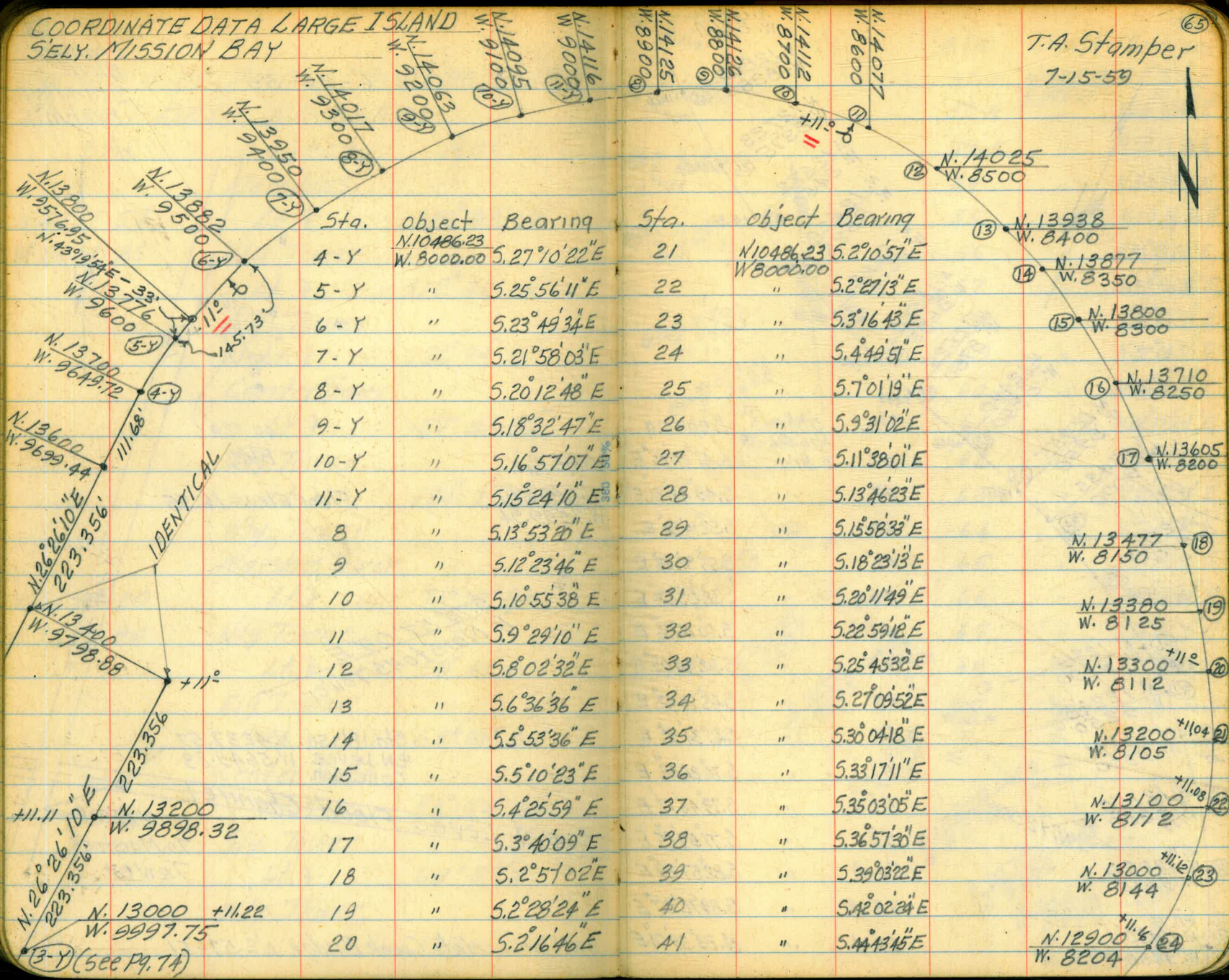
Stamper
Blunt
Standley
Brehm



S.W. Cor Tecolote Creek Bridge No 51-51

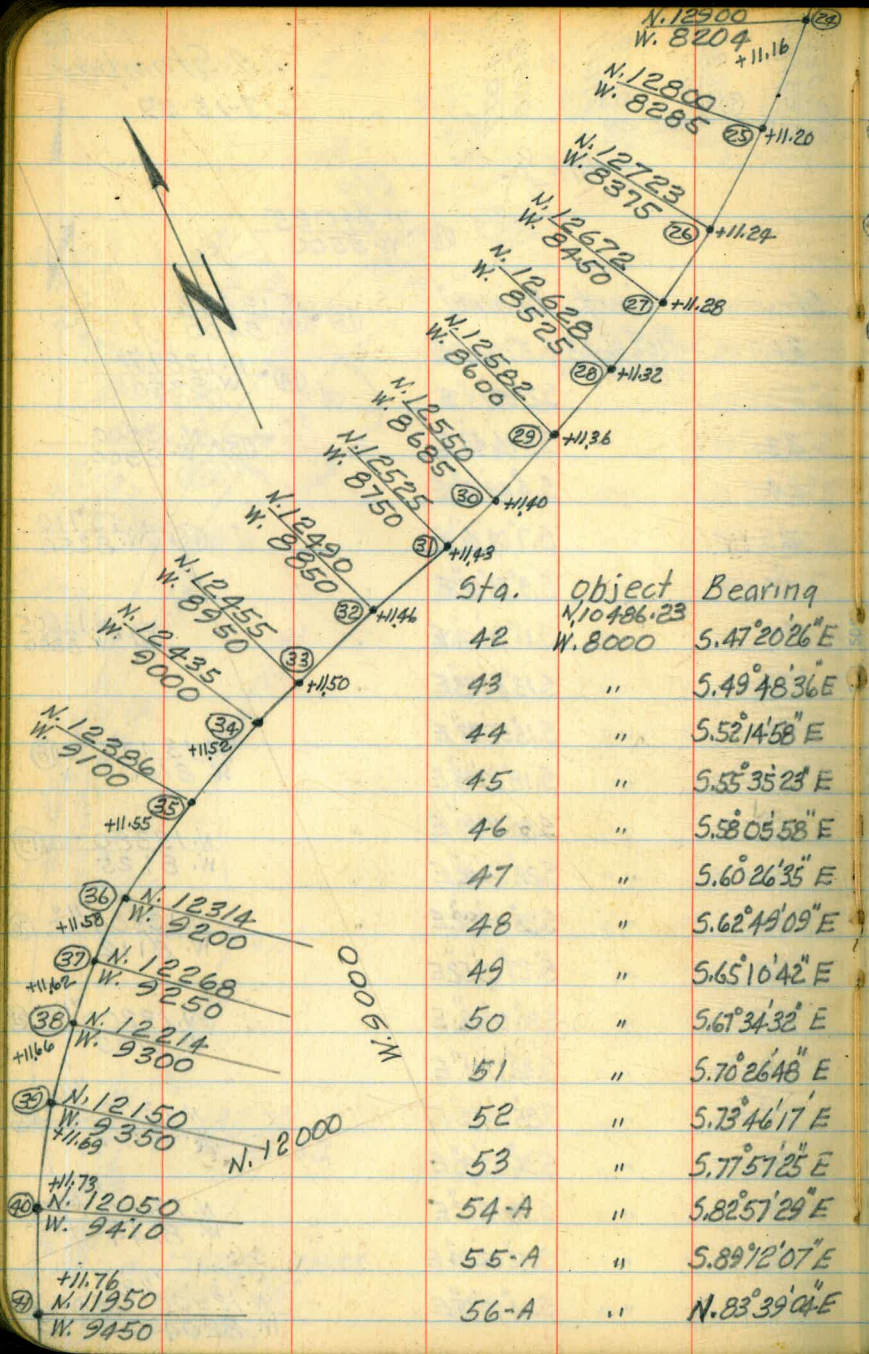
COORDINATE DATA LARGE ISLAND
SELY. MISSION BAY

T.A. Stamper
7-15-59

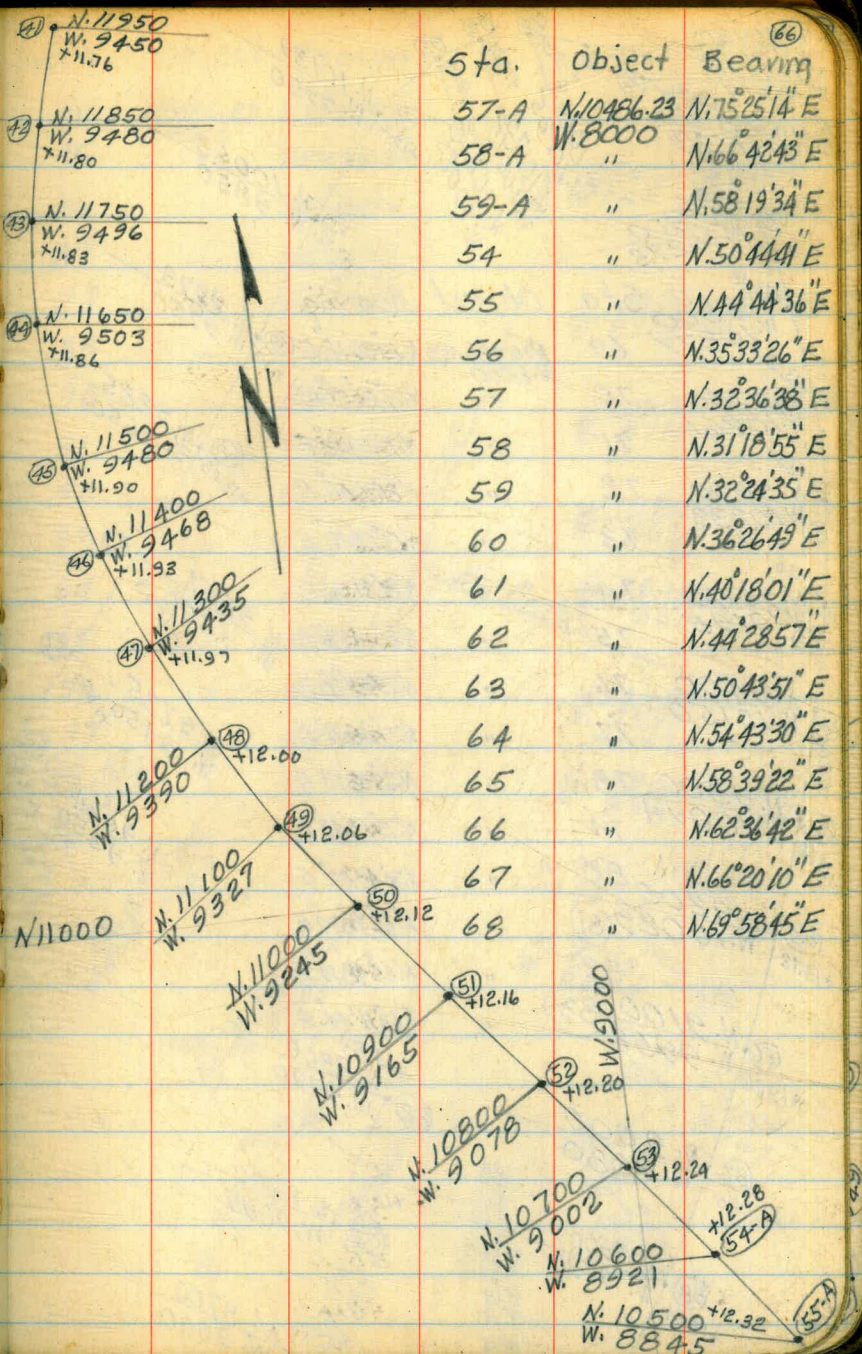


Sta.	object	Bearing
4 - Y	N. 10486.23 W. 8000.00	S. 27°10'22" E
5 - Y	"	S. 25°56'11" E
6 - Y	"	S. 23°49'34" E
7 - Y	"	S. 21°58'03" E
8 - Y	"	S. 20°12'48" E
9 - Y	"	S. 18°32'47" E
10 - Y	"	S. 16°57'07" E
11 - Y	"	S. 15°24'10" E
8	"	S. 13°53'20" E
9	"	S. 12°23'46" E
10	"	S. 10°55'38" E
11	"	S. 9°29'10" E
12	"	S. 8°02'32" E
13	"	S. 6°36'36" E
14	"	S. 5°53'36" E
15	"	S. 5°10'23" E
16	"	S. 4°25'59" E
17	"	S. 3°40'09" E
18	"	S. 2°57'02" E
19	"	S. 2°28'24" E
20	"	S. 2°16'46" E

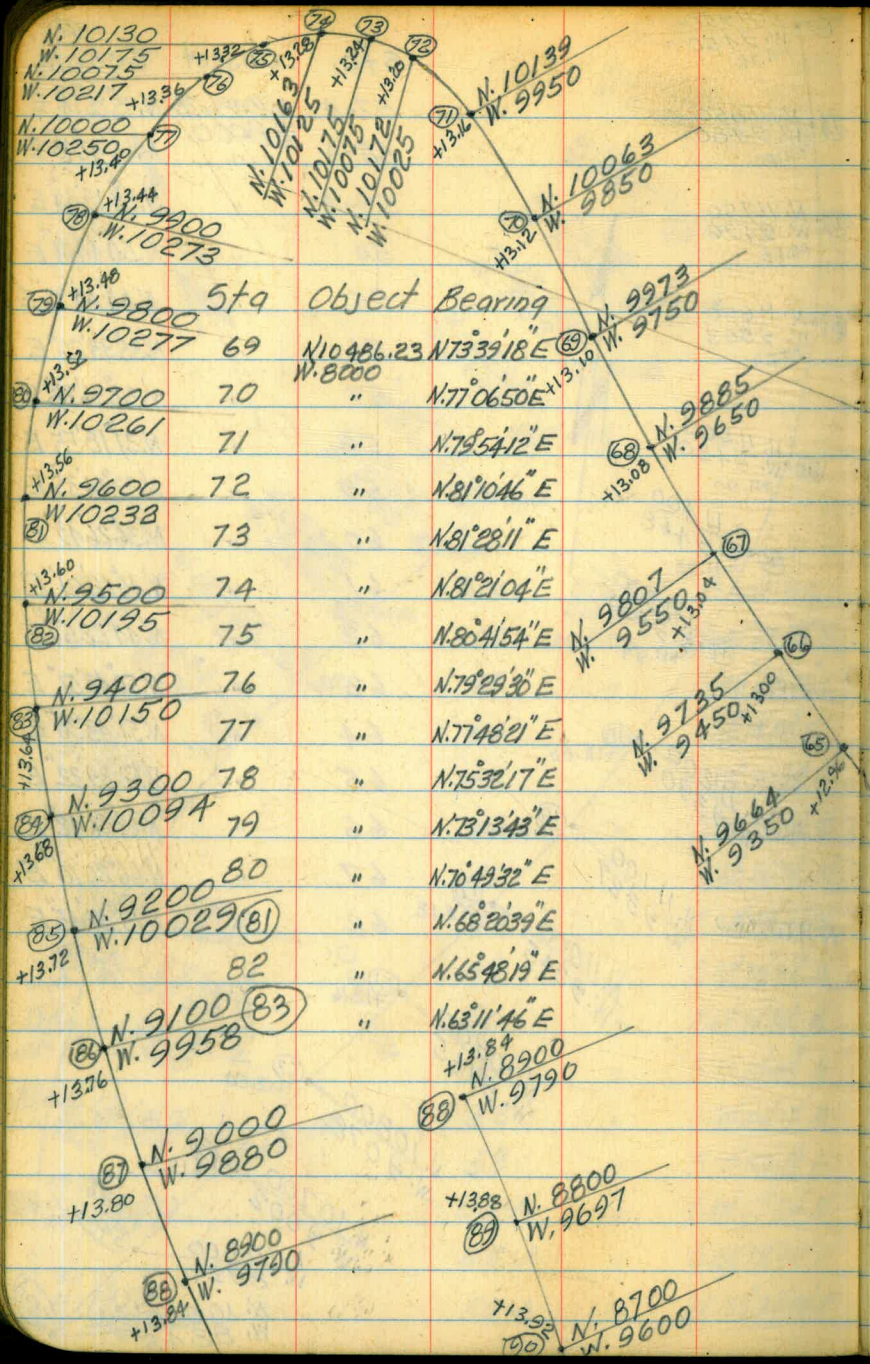
Sta.	object	Bearing
21	N 10486.23 W 8000.00	S. 2°10'57" E
22	"	S. 2°27'13" E
23	"	S. 3°16'43" E
24	"	S. 4°49'51" E
25	"	S. 7°01'19" E
26	"	S. 9°31'02" E
27	"	S. 11°38'01" E
28	"	S. 13°46'23" E
29	"	S. 15°58'33" E
30	"	S. 18°23'13" E
31	"	S. 20°11'49" E
32	"	S. 22°59'18" E
33	"	S. 25°45'32" E
34	"	S. 27°09'52" E
35	"	S. 30°04'18" E
36	"	S. 33°17'11" E
37	"	S. 35°03'05" E
38	"	S. 36°57'30" E
39	"	S. 39°03'22" E
40	"	S. 42°02'24" E
41	"	S. 44°13'45" E



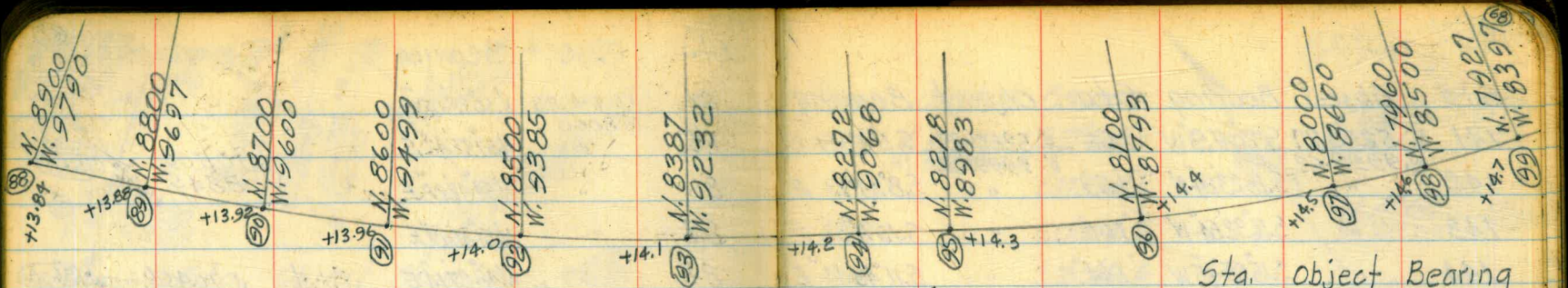
Sta.	Object	Bearing
42	N. 10486.23 W. 8000	S. 47° 20' 26" E
43	"	S. 49° 48' 36" E
44	"	S. 52° 14' 58" E
45	"	S. 55° 35' 23" E
46	"	S. 58° 05' 58" E
47	"	S. 60° 26' 35" E
48	"	S. 62° 49' 09" E
49	"	S. 65° 10' 42" E
50	"	S. 67° 34' 32" E
51	"	S. 70° 26' 48" E
52	"	S. 73° 46' 17" E
53	"	S. 77° 57' 25" E
54-A	"	S. 82° 57' 29" E
55-A	"	S. 89° 12' 07" E
56-A	"	N. 83° 39' 04" E

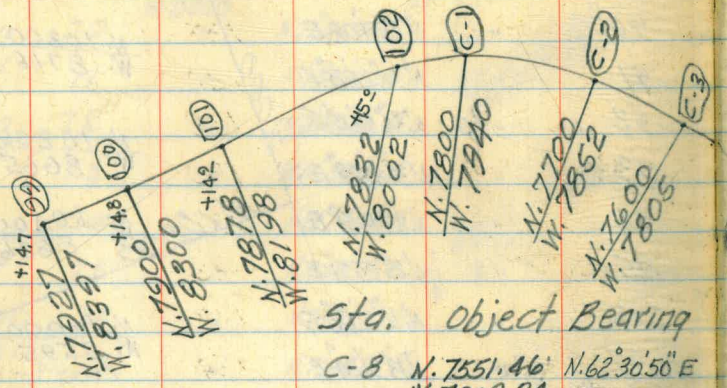


Sta.	Object	Bearing
57-A	N. 10486.23 W. 8000	N. 75° 25' 14" E
58-A	"	N. 66° 42' 43" E
59-A	"	N. 58° 19' 34" E
54	"	N. 50° 44' 41" E
55	"	N. 44° 44' 36" E
56	"	N. 35° 33' 26" E
57	"	N. 32° 36' 38" E
58	"	N. 31° 18' 55" E
59	"	N. 32° 24' 35" E
60	"	N. 36° 26' 49" E
61	"	N. 40° 18' 01" E
62	"	N. 44° 28' 57" E
63	"	N. 50° 43' 51" E
64	"	N. 54° 43' 30" E
65	"	N. 58° 39' 22" E
66	"	N. 62° 36' 42" E
67	"	N. 66° 20' 10" E
68	"	N. 69° 58' 45" E



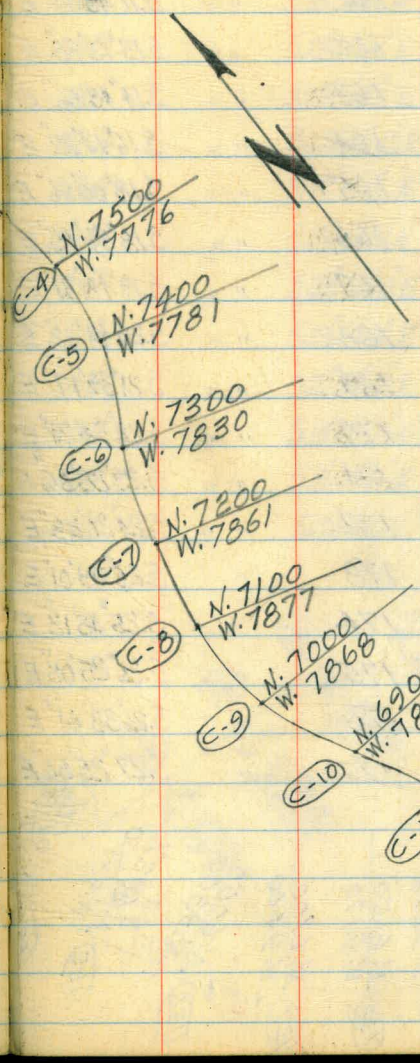
Sta	Object	Bearing
69	N10486.23 W.8000	N.73°39'18"E
70	"	N.77°06'50"E
71	"	N.79°54'12"E
72	"	N.81°10'46"E
73	"	N.81°28'11"E
74	"	N.81°21'04"E
75	"	N.80°41'54"E
76	"	N.79°29'36"E
77	"	N.77°48'21"E
78	"	N.75°32'17"E
79	"	N.73°13'43"E
80	"	N.70°49'32"E
81	"	N.68°20'39"E
82	"	N.65°48'19"E
83	"	N.63°11'46"E
84	N10486.23 W.8000	N.60°28'08"E
85	"	N.57°37'42"E
86	"	N.54°42'08"E
87	"	N.51°40'19"E
88	"	N.48°27'14"E
89	"	N.45°10'57"E
90	"	N.41°51'08"E
91	"	N.38°28'28"E
92	"	N.34°53'18"E
93	"	N.30°24'29"E
94	"	N.25°44'59"E
95	"	N.23°25'51"E
96	"	N.18°22'58"E
97	"	N.13°31'04"E
98	"	N.11°11'44"E





Sta.	object	Bearing
99	N.10486.23 W.8000	N.8°50'22"E
100	"	N.6°37'00"E
101	"	N.4°20'28"E
102	"	N.0°02'35"E
C-1	N.7551.46 W.7009.24 "2x2" ECC.	S.75°02'57"E
C-2	"	S.86°06'15"E
C-3	"	S.86°30'34"E
C-4	"	N.86°09'40"E
C-5	"	N.78°53'49"E
C-6	"	N.72°57'58"E
C-7	"	N.67°34'39"E

Sta.	object	Bearing
C-8	N.7551.46 W.7009.24	N.62°30'56"E
C-9	"	N.57°17'35"E
C-10	"	N.51°02'40"E
C-11	"	N.45°06'54"E
C-12	"	N.40°42'54"E
C-13	"	N.37°54'00"E
C-14	"	N.36°10'19"E
C-15	"	N.35°07'00"E
C-16	"	N.34°31'13"E
C-17	"	N.34°33'20"E
123	N.5250.27 W.9999.62	S.65°56'30"W
124	"	S.66°04'35"W
125	"	S.66°02'25"W

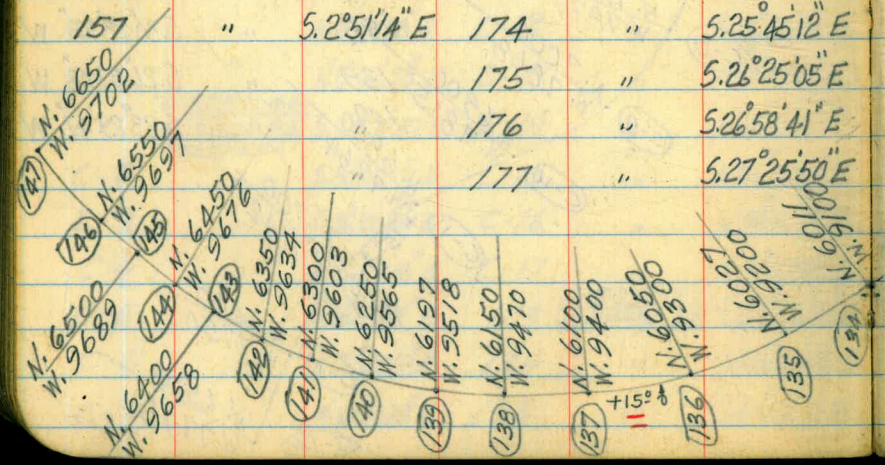


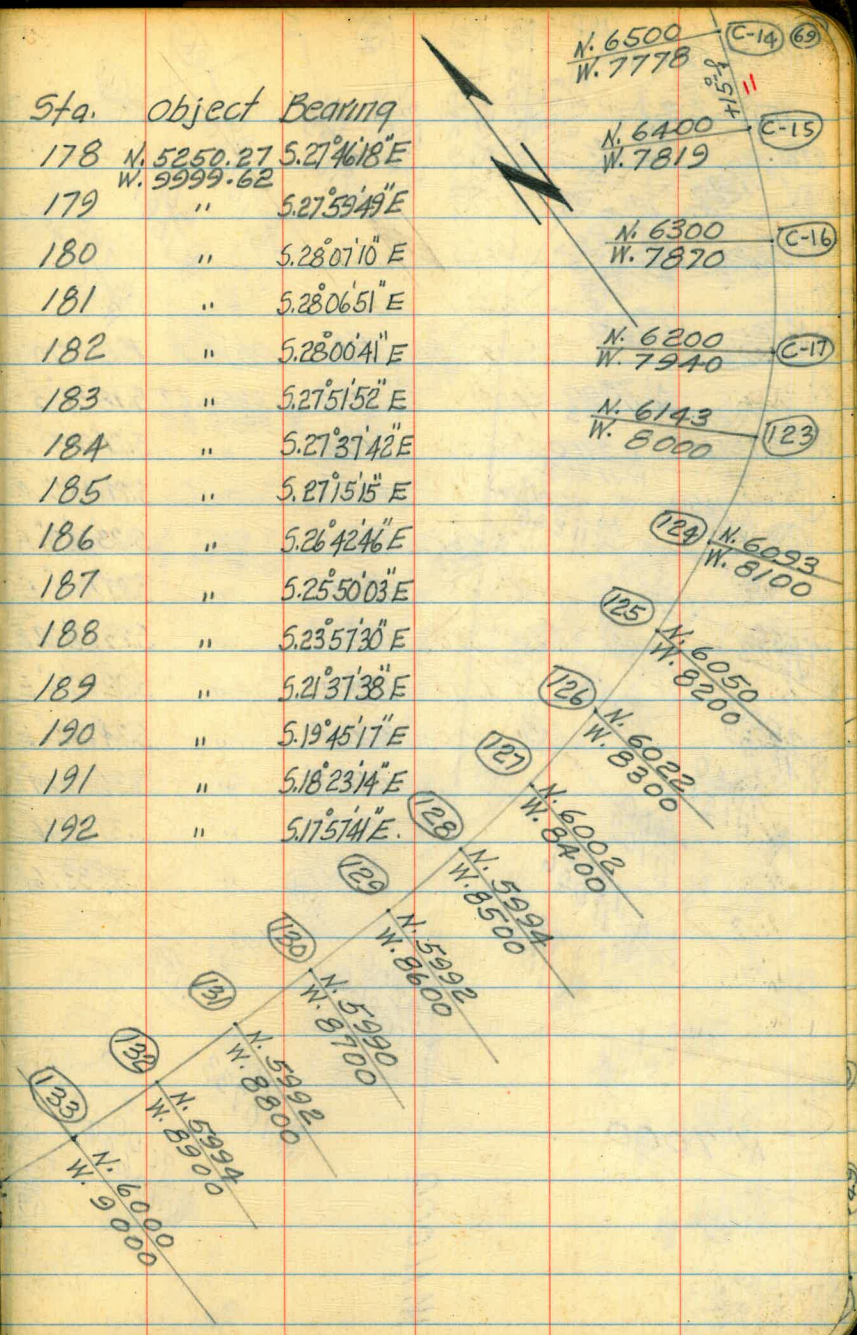
Sta.	object	Bearing
126	N.5250.27 W.9999.62	S.65°34'45"W
127	"	S.64°49'45"W
128	"	S.63°37'16"W
129	"	S.62°04'43"W
130	"	S.60°21'07"W
131	"	S.58°16'17"W
132	"	S.55°55'39"W
133	"	S.53°07'46"W
134	"	S.49°46'54"W
135	"	S.45°49'55"W
136	"	S.41°10'48"W
137	"	S.35°12'33"W
138	"	S.30°28'58"W
139	"	S.26°57'48"W
140	"	S.23°29'47"W

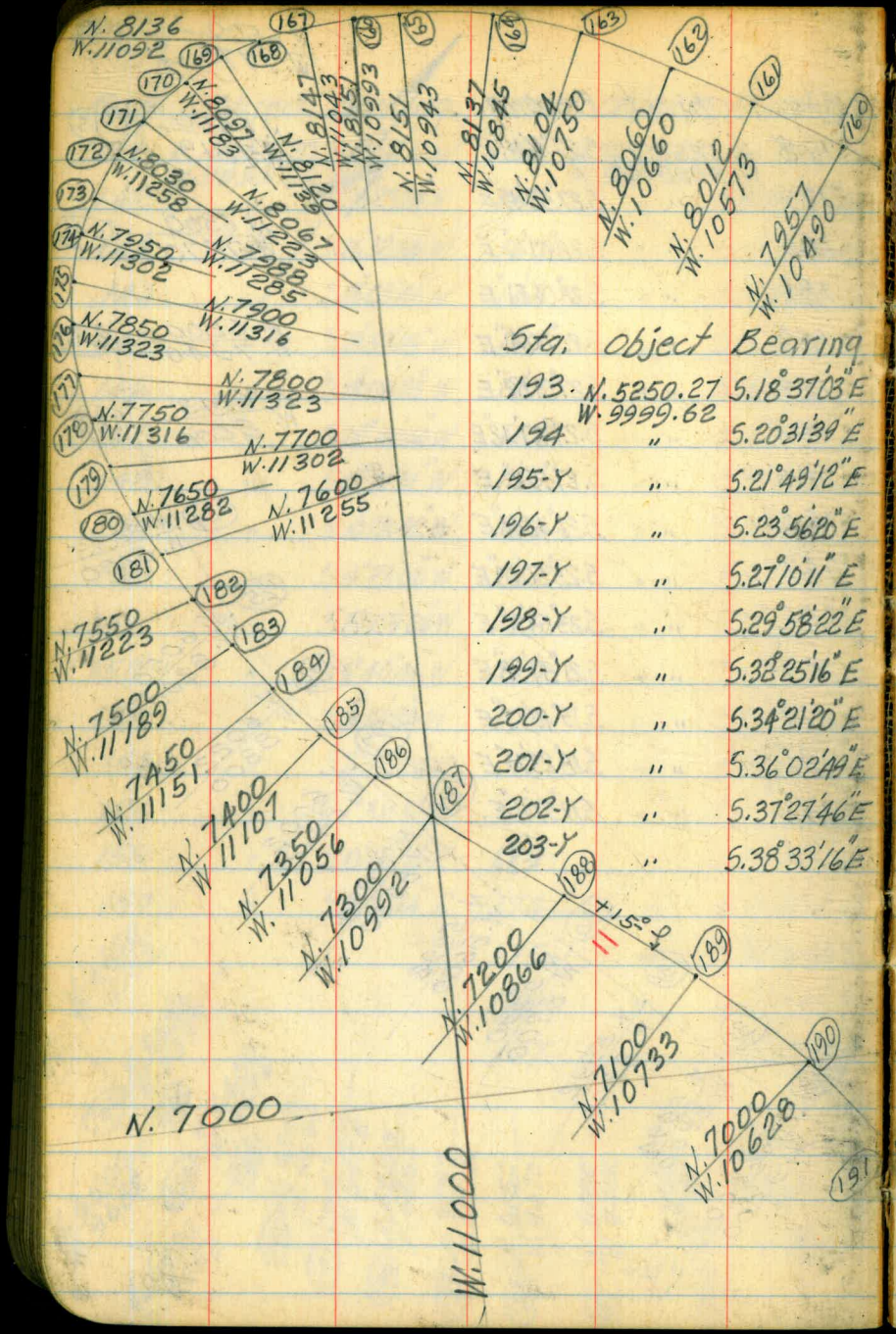
Sta.	Object	Bearing
141	N. 5250.27 W. 9999.62	S. 20°41'53" W
142	"	S. 18°23'24" W
143	"	S. 16°32'54" W
144	"	S. 15°05'45" W
145	"	S. 13°57'29" W
146	"	S. 13°06'25" W
147	"	S. 12°00'14" W
148	"	S. 11°31'31" W
149	"	S. 10°28'42" W
150	"	S. 9°23'00" W
151	"	S. 8°09'04" W
152	"	S. 6°40'46" W
153	"	S. 4°56'34" W
154	"	S. 3°20'24" W
155	"	S. 1°38'31" W
156	"	S. 0°15'52" E
157	"	S. 2°51'14" E

Sta.	Object	Bearing
158	N. 5250.27 W. 9999.62	S. 5°50'21" E
159	"	S. 8°47'21" E
160	"	S. 10°16'08" E
161	"	S. 11°43'44" E
162	"	S. 13°13'35" E
163	"	S. 14°43'56" E
164	"	S. 16°19'22" E
165	"	S. 18°00'56" E
166	"	S. 18°54'15" E
167	"	S. 19°48'31" E
168	"	S. 20°44'02" E
169	"	S. 21°39'17" E
170	"	S. 22°34'21" E
171	"	S. 23°28'36" E
172	"	S. 24°21'23" E
173	"	S. 25°09'01" E
174	"	S. 25°45'12" E
175	"	S. 26°25'05" E
176	"	S. 26°58'41" E
177	"	S. 27°25'50" E

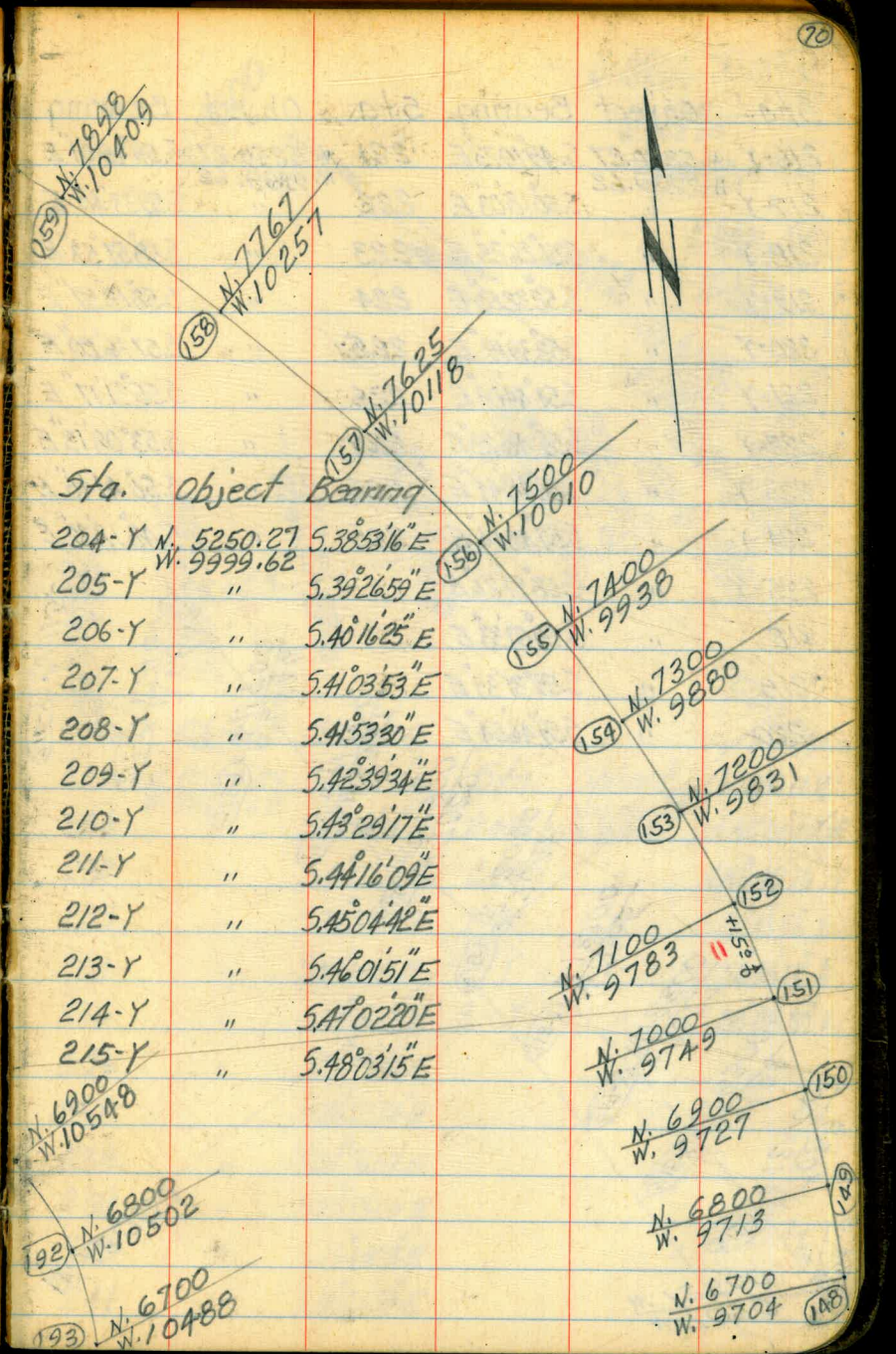
Sta.	Object	Bearing
178	N. 5250.27 W. 9999.62	S. 27°46'18" E
179	"	S. 27°59'49" E
180	"	S. 28°07'10" E
181	"	S. 28°06'51" E
182	"	S. 28°00'41" E
183	"	S. 27°51'52" E
184	"	S. 27°37'42" E
185	"	S. 27°15'15" E
186	"	S. 26°42'46" E
187	"	S. 25°50'03" E
188	"	S. 23°57'30" E
189	"	S. 21°37'38" E
190	"	S. 19°45'17" E
191	"	S. 18°23'14" E
192	"	S. 17°57'41" E





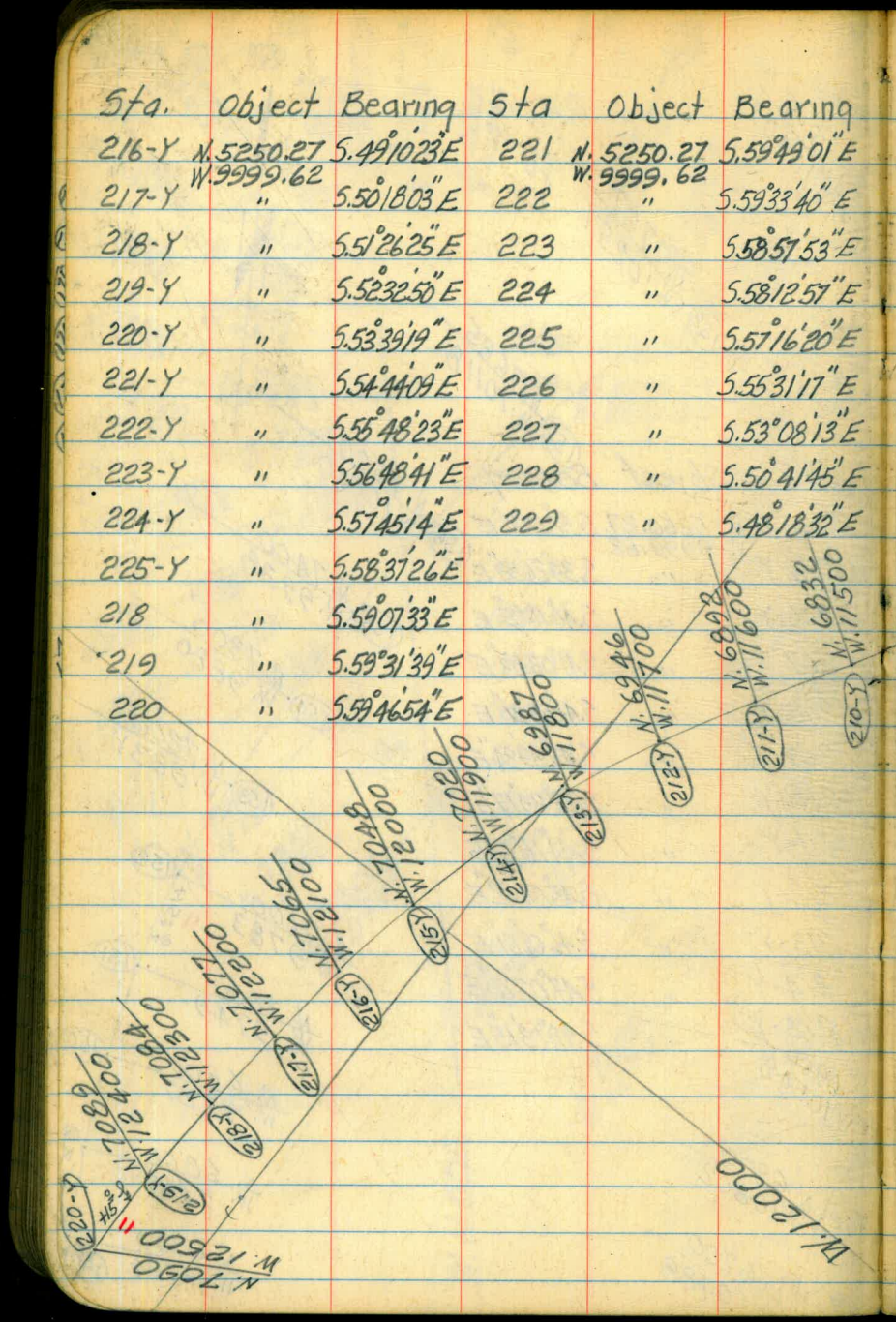


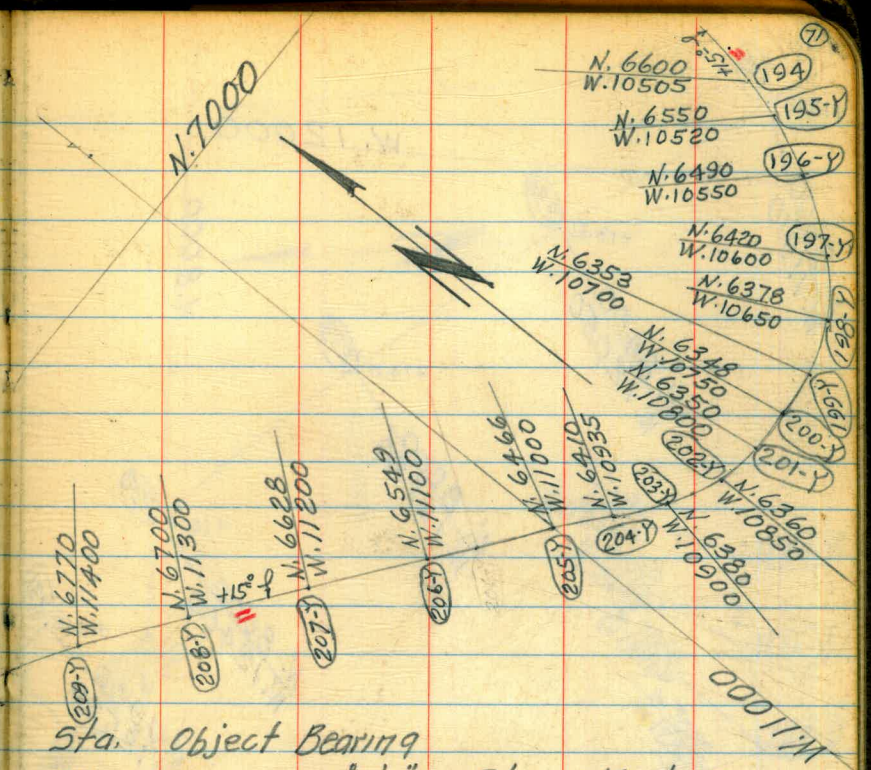
Sta.	object	Bearing
193	N. 5250.27 W. 9999.62	S. 18° 37' 03" E
194	"	S. 20° 31' 39" E
195-Y	"	S. 21° 49' 12" E
196-Y	"	S. 23° 56' 20" E
197-Y	"	S. 27° 10' 11" E
198-Y	"	S. 29° 58' 22" E
199-Y	"	S. 32° 25' 16" E
200-Y	"	S. 34° 21' 20" E
201-Y	"	S. 36° 02' 49" E
202-Y	"	S. 37° 27' 46" E
203-Y	"	S. 38° 33' 16" E



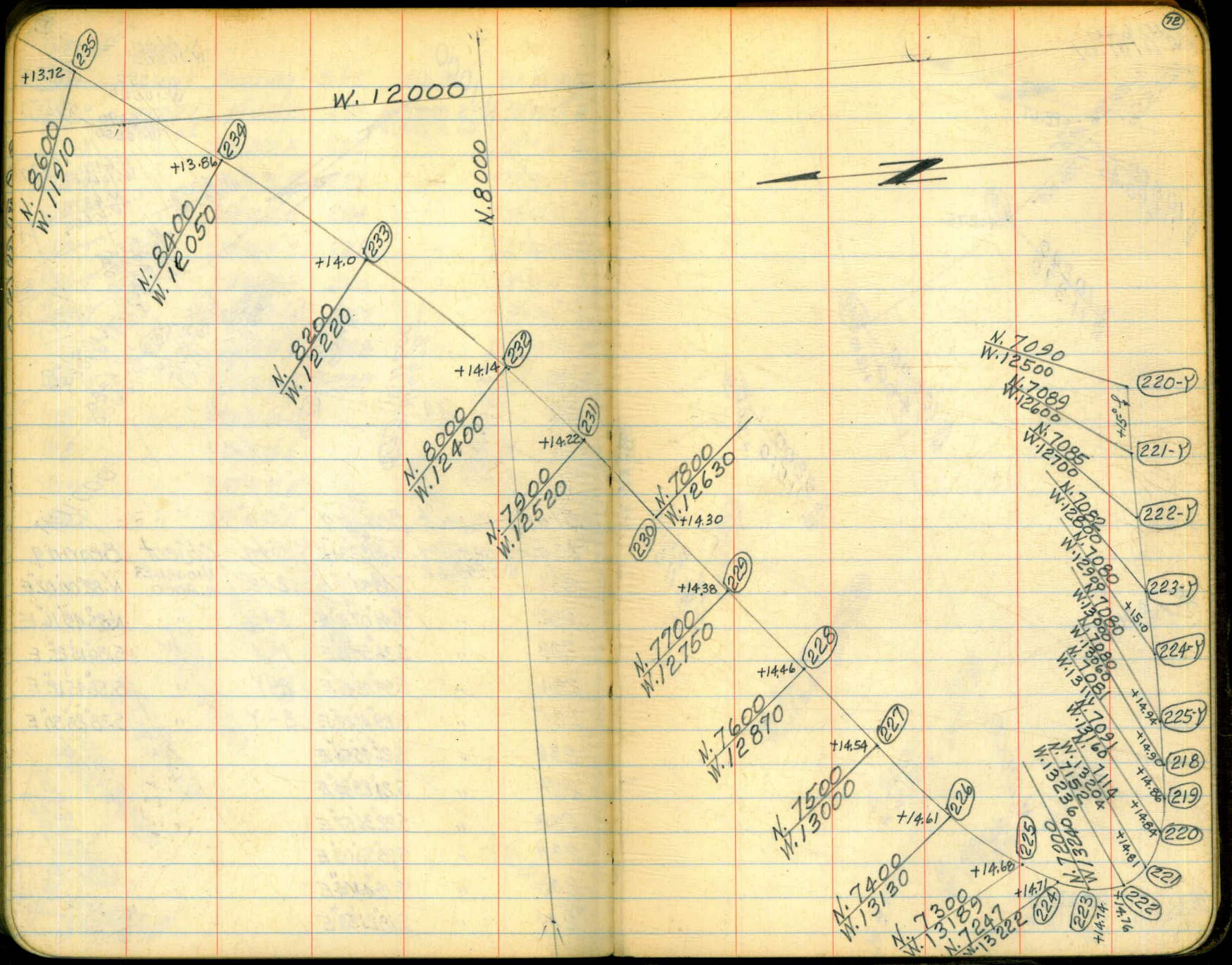
Sta.	object	Bearing
204-Y	N. 5250.27 W. 9999.62	S. 38° 53' 16" E
205-Y	"	S. 39° 26' 59" E
206-Y	"	S. 40° 16' 25" E
207-Y	"	S. 41° 03' 53" E
208-Y	"	S. 41° 53' 30" E
209-Y	"	S. 42° 39' 34" E
210-Y	"	S. 43° 29' 17" E
211-Y	"	S. 44° 16' 09" E
212-Y	"	S. 45° 04' 42" E
213-Y	"	S. 46° 01' 51" E
214-Y	"	S. 47° 02' 20" E
215-Y	"	S. 48° 03' 15" E

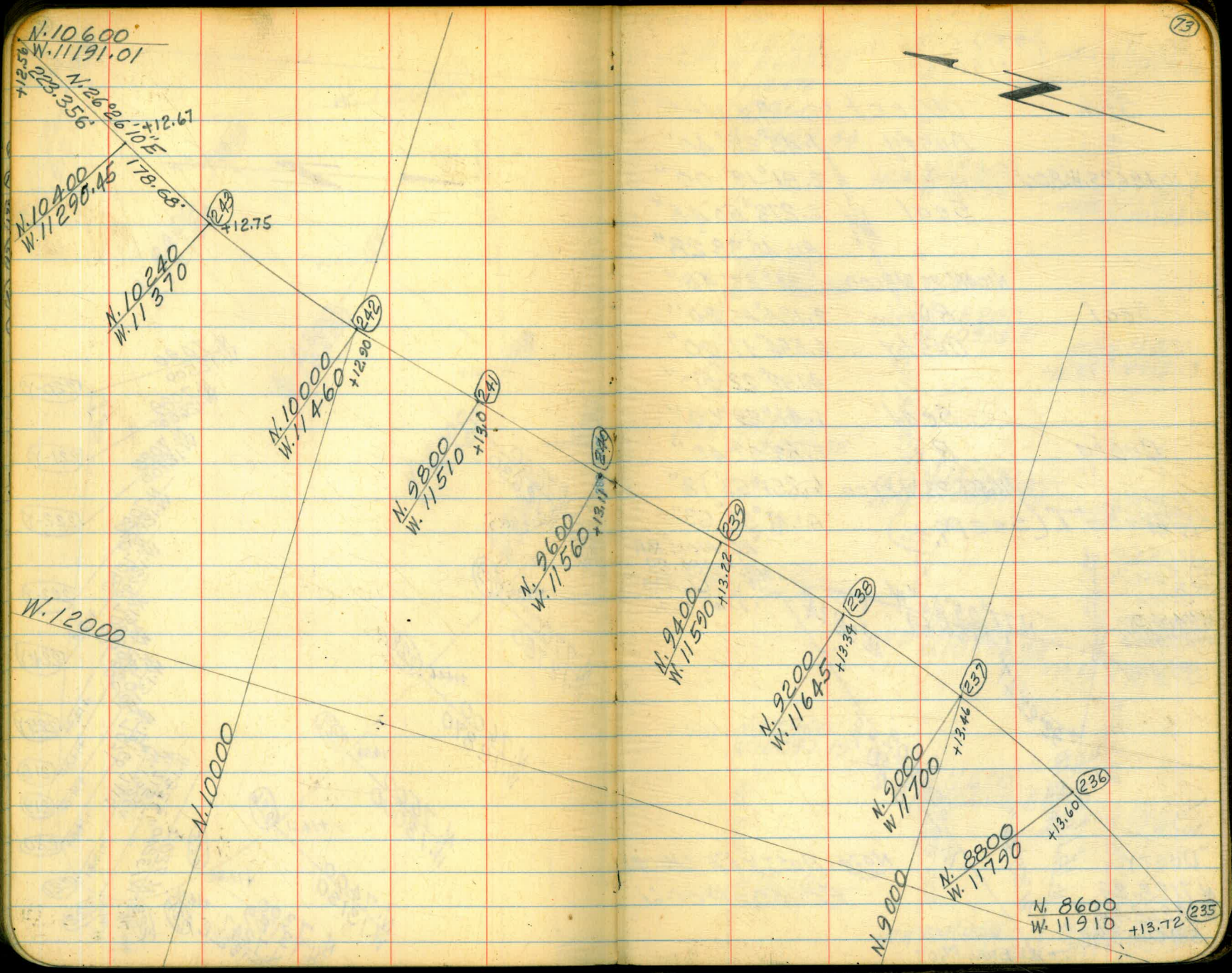
Sta.	Object	Bearing	Sta	Object	Bearing
216-Y	N. 5250.27 W. 9999.62	S. 49°10'23" E	221	N. 5250.27 W. 9999.62	S. 59°49'01" E
217-Y	"	S. 50°18'03" E	222	"	S. 59°33'40" E
218-Y	"	S. 51°26'25" E	223	"	S. 58°57'53" E
219-Y	"	S. 52°32'50" E	224	"	S. 58°12'57" E
220-Y	"	S. 53°39'19" E	225	"	S. 57°16'20" E
221-Y	"	S. 54°44'09" E	226	"	S. 55°31'17" E
222-Y	"	S. 55°48'23" E	227	"	S. 53°08'13" E
223-Y	"	S. 56°48'41" E	228	"	S. 50°41'45" E
224-Y	"	S. 57°45'14" E	229	"	S. 48°18'32" E
225-Y	"	S. 58°37'26" E			
218	"	S. 59°07'33" E			
219	"	S. 59°31'39" E			
220	"	S. 59°46'54" E			





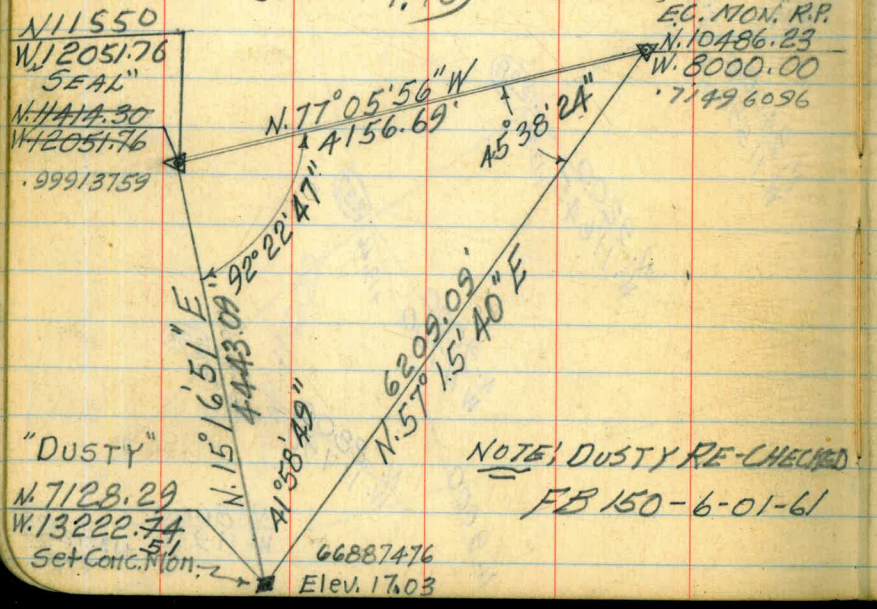
Sta.	Object	Bearing	Sta.	Object	Bearing
230	N. 5250.27 W. 9999.62	S. 45°53'31" E	242	N. 10486.23 W. 8000	N. 82°00'02" E
231	"	S. 43°34'01" E	243	"	N. 85°49'16" E
232	"	S. 41°07'10" E	1-Y	"	S. 80°15'25" E
233	"	S. 36°58'13" E	2-Y	"	S. 58°45'12" E
234	"	S. 33°03'47" E	3-Y	"	S. 38°28'30" E
235	"	S. 29°41'47" E			
236	"	S. 26°45'54" E			
237	"	S. 24°23'34" E			
238	"	S. 22°36'57" E			
239	"	S. 20°58'09" E			
240	"	S. 19°44'04" E			
241	"	S. 18°21'53" E			


W. 12000
N. 8000
+13.72
235
N. 8600
W. 11910
+13.86
234
N. 8400
W. 12050
+14.0
233
N. 8200
W. 12220
+14.14
232
N. 8000
W. 12400
+14.22
231
N. 7900
W. 12520
230
N. 7800
W. 12630
+14.30
+14.38
229
N. 7700
W. 12760
+14.46
228
N. 7600
W. 12870
+14.54
227
N. 7500
W. 13000
+14.61
226
N. 7400
W. 13130
+14.68
225
N. 7300
W. 13189
+14.71
224
N. 7247
W. 13222
+14.74
223
+14.76
222
+14.81
221
+14.84
220
+14.86
219
+14.90
218
+14.94
225-Y
+15.0
224-Y
223-Y
222-Y
221-Y
+15.04
220-Y
N. 7090
W. 12500
N. 7089
W. 12600
N. 7085
W. 12700
N. 7080
W. 12800
N. 7080
W. 12898
N. 7080
W. 13000
N. 7080
W. 13080
N. 7080
W. 13160
N. 7081
W. 13114
N. 7021
W. 13204
N. 7152
W. 13236
N. 7200
W. 13240


N. 10600
W. 11191.01
+12.58
N. 223.356
N. 22626'10" E
178.68'
+12.67
N. 10400
W. 11290.46
243
+12.75
N. 10240
W. 11370
242
+12.90
N. 10000
W. 11460
241
+13.0
N. 9800
W. 11510
240
+13.11
N. 9600
W. 11560
239
+13.22
N. 9400
W. 11590
238
+13.34
N. 9200
W. 11645
237
+13.46
N. 9000
W. 11700
236
+13.60
N. 8800
W. 11750
235
+13.72
N. 8600
W. 11910
W. 12000
N. 10000
N. 9000

N77-05-55 W
4156.692'

Sta.	Object	Angles
	Dusty	1. 45°38'40"
N.10486.23, W.8,000	〃	2. 91°17'00"
	Seal	6. 273°50'48"
		Av. 45°38'28"
	N10486.23 W8000	1. 92°22'45"
Seal	R〃	2. 184°45'30"
	Dusty	6. 554°17'00"
		Av. 92°22'50"
	Seal	1. 41°59'00"
Dusty	R〃	2. 83°57'40"
	N10486.23 W.8,000	6. 251°53'18"
RE-SET (see Pg. 46)		Av. 41°58'53"



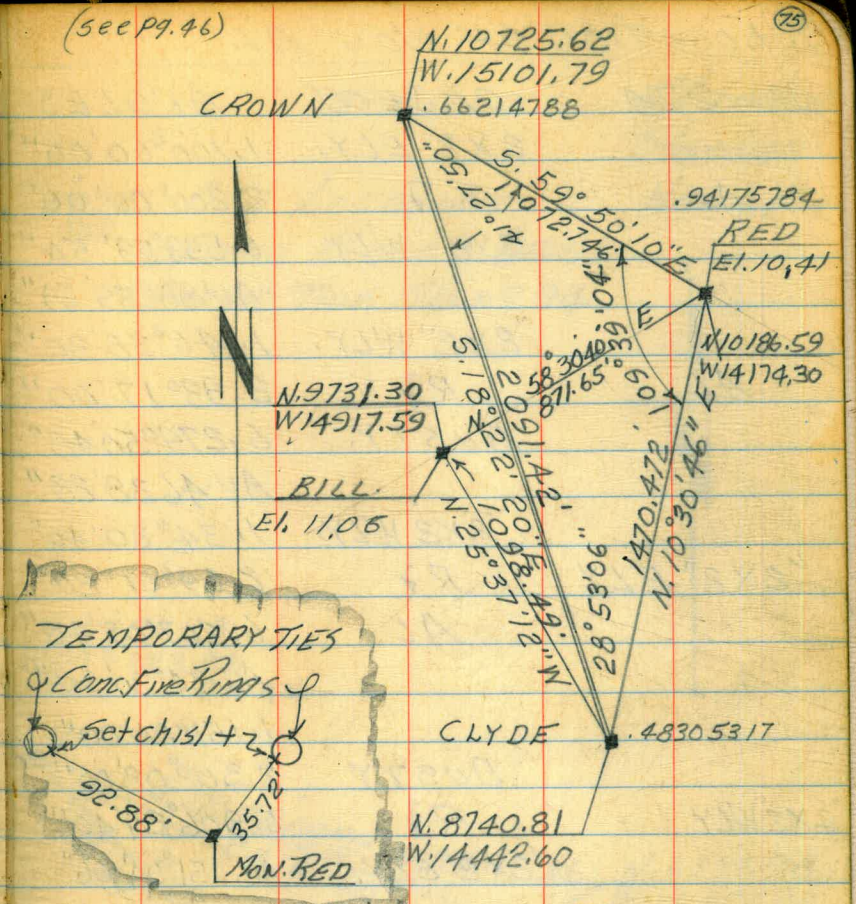
NOTE: DUSTY RE-CHECKED
FB 150-6-01-61

(See Pg. 65)

		N.12600 W.10196.63		
4-Y	N.13700 W.9649.72	+11.44		
	111.678'			
	N.13600 W.9699.44	+12.11		N.11400 W.10793.26
223.356'		223.356'		223.356'
		N.12400 W.10296.07	+11.56	
			+12.22	N.11200 W.10892.70
+11°	N.13400 W.9798.88			
N.26°26'10"E		N.12200 W.10395.51	+11.57	
N.26°26'10"E			1-Y +12.33	N.11000 W.10992.13
+11.11	N.13200 W.9898.32			
		N.12000 W.10494.94	2-Y +11.78	
			+12.44	N.10800 W.11091.57
+11.22	3-Y N.13000 W.9997.75			
N.26°26'10"E				N.26°26'10"E
		N.11800 W.10594.38	+11.89	
			+12.56	N.10600 W.11191.01
+11.33	N.12800 W.10097.19			
223.356'		223.356'		223.356'
		N.11600 W.10693.82	+12°	
			+12.67	N.10400 W.11290.45
223.356'		223.356'		178.68'
+11.44	N.12600 W.10196.63			
		N.11400 W.10793.26	+12.11	243 N.10240 W.11370 +12.75

Δ LOCATION MON. "RED"

Sta.	Object	Angles
	MARSTONS	
CROWN		0°00'00"
	RED	
		1. 109°39'15"
	CLYDE	2. 219°18'15"
RED	R ↴	6. 657°54'54"
	CROWN	Av. 109°39'09"
		1. 28°53'25"
	CROWN	2. 57°46'15"
CLYDE	R ↴	6. 173°19'06"
	RED	Av. 28°53'11"
		1. 105°34'50"
	DUSTY	2. 211°09'30"
"2X2" W'LY.	R ↴	6. 633°26'42"
	A L	Av. 105°34'27"
		1. 45°29'50"
	A L	2. 91°00'00"
"2X2" W'LY.	R ↴	6. 272°58'00"
	"2X2" E'LY.	Av. 45°29'40"
		1. 27°47'30"
	A L	2. 55°34'40"
DUSTY	R ↴	6. 166°44'18"
	2X2 W'LY.	Av. 27°47'23"



Sta	+	H. I.	−	Elev	
B.M.				17.03	MON DOSTY
	2.60	19.63			
T.B.M.			4.65	14.98	R.P. 50'
T.B.M.			4.50	15.13	R.P. 100'

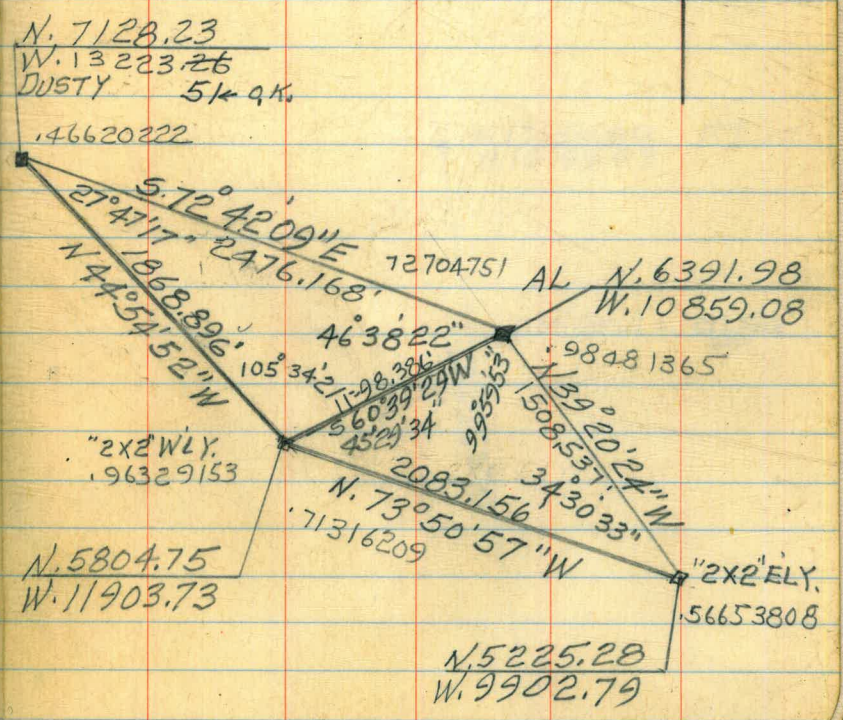
Δ LOCATION OF MON. AL

STA	OBJECT	ANGLES
	"2X2" ELY.	1, 100°00'00"
AL	R 7	2, 200°00'00"
	"2X2" WLY.	6, 599°59'54"
		AV. 99°59'59"
	"2X2" WLY.	1, 46°38'30"
AL	R 7	2, 93°17'00"
	DUSTY.	6, 279°50'48"
		AV. 46°38'28"
	"2X2" WLY.	1, 34°30'40"
"2X2" ELY	R 7	2, 69°01'20"
	AL	6, 207°03'48"
		AV. 34°30'38"
		1, 151°04'00"
	DUSTY	2, 302°08'00"
"2X2" WLY	R 7	6, 906°24'40"
	"2X2" ELY.	AV. 151°04'06"

3-29-60

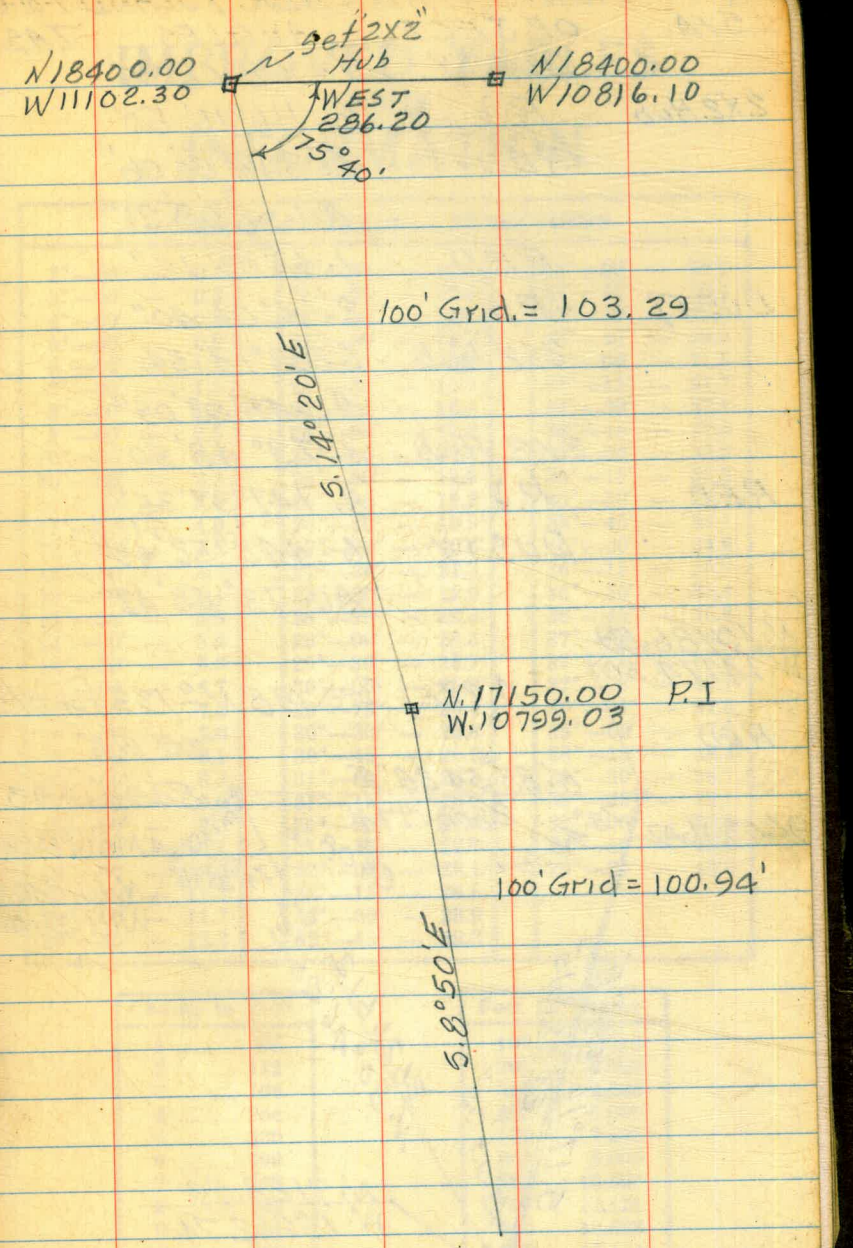
Stampfel
Standley
Hecht

NOTE: See Location of Mon Moose & Omni-Range Twr. NB No 94



B/L WLY SIDE OF ROSE CREEK

STA	BEARING
N184+00 W	
N183+50 W	
N183+00 W	
N182+50 W	
N182+00 W	
N181+50 W	
N181+00 W	
N180+50 W	
N180+00 W	
N179+50 W	
N179+00 W	

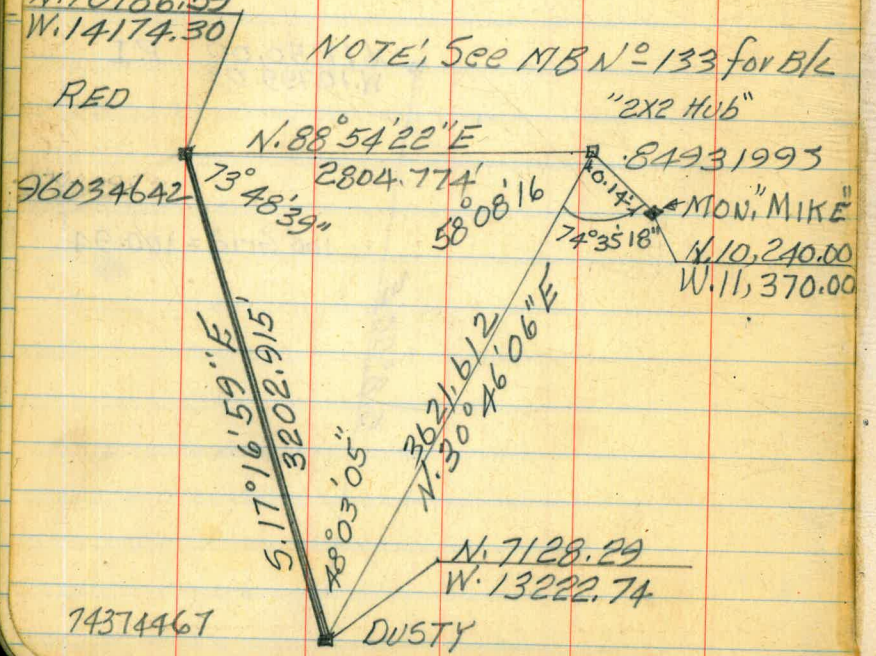


∠ OF MON. MIKE CABR. ISLAND 7-01-60

STA.	OBJECT	ANGLES	T.A.S.
	DUSTY	1. 58°08'35"	
2X2 Hub	R	2. 116°16'50"	
	RED	6. 348°50'06"	
		AV. 58°08'21"	
	RED	1. 48°03'15"	
DUSTY	R	2. 96°06'40"	
	"2X2" Hub	6. 288°18'54	
		AV. 48°03'09"	
	"2X2" Hub	1. 73°48'50"	
RED	R	2. 147°37'35"	
	DUSTY	6. 442°52'18"	
		AV. 73°48'43"	

N. 10186.59
W. 14174.30

NOTE; See MB N° 133 for B/L



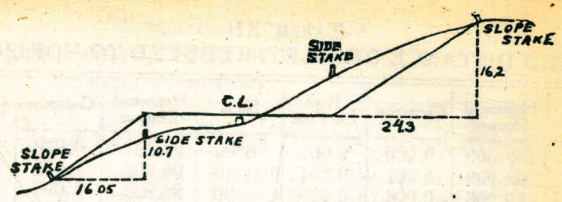
IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°—00′ — 0.1	21°—00′ — 12.8	33°—00′ — 29.7
3°—00′ — 0.3	21°—30′ — 13.4	33°—15′ — 30.1
4°—00′ — 0.5	22°—00′ — 14.0	33°—30′ — 30.5
5°—00′ — 0.8	22°—30′ — 14.7	33°—45′ — 30.9
6°—00′ — 1.1	23°—00′ — 15.3	34°—00′ — 31.3
7°—00′ — 1.5	23°—30′ — 15.9	34°—15′ — 31.7
8°—00′ — 1.9	24°—00′ — 16.5	34°—30′ — 32.1
9°—00′ — 2.5	24°—30′ — 17.2	34°—45′ — 32.5
10°—00′ — 3.0	25°—00′ — 17.9	35°—00′ — 32.9
10°—30′ — 3.3	25°—30′ — 18.6	35°—15′ — 33.3
11°—00′ — 3.6	26°—00′ — 19.2	35°—30′ — 33.7
11°—30′ — 4.0	26°—30′ — 19.9	35°—45′ — 34.1
12°—00′ — 4.3	27°—00′ — 20.6	36°—00′ — 34.6
12°—30′ — 4.7	27°—30′ — 21.3	36°—15′ — 35.0
13°—00′ — 5.1	28°—00′ — 22.0	36°—30′ — 35.4
13°—30′ — 5.5	28°—30′ — 22.8	36°—45′ — 35.8
14°—00′ — 5.9	29°—00′ — 23.5	37°—00′ — 36.2
14°—30′ — 6.3	29°—30′ — 24.3	37°—15′ — 36.6
15°—00′ — 6.7	30°—00′ — 25.0	37°—30′ — 37.1
15°—30′ — 7.2	30°—15′ — 25.4	37°—45′ — 37.5
16°—00′ — 7.6	30°—30′ — 25.8	38°—00′ — 37.9
16°—30′ — 8.1	30°—45′ — 26.2	38°—15′ — 38.3
17°—00′ — 8.5	31°—00′ — 26.5	38°—30′ — 38.7
17°—30′ — 9.0	31°—15′ — 26.9	38°—45′ — 39.1
18°—00′ — 9.5	31°—30′ — 27.3	39°—00′ — 39.6
18°—30′ — 10.1	31°—45′ — 27.7	39°—15′ — 40.0
19°—00′ — 10.6	32°—00′ — 28.1	39°—30′ — 40.5
19°—30′ — 11.2	32°—15′ — 28.5	
20°—00′ — 11.7	32°—30′ — 28.9	
20°—30′ — 12.3	32°—45′ — 29.3	

Chains to Feet	
1	66
2	132
3	198
4	264
5	330
6	396
7	462
8	528
9	594
10	660

Feet to Chains	
100	1.515
200	3.030
300	4.545
400	6.060
500	7.575
600	9.090
700	10.606
800	12.121
900	13.636
1,000	15.151



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1 65	1 80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3 45	3.60	3 75	3.90	4.05	4.20	4 35	2
3	4.50	4 65	4.80	4.95	5.10	5 25	5 40	5.55	5.70	5.85	3
4	6.00	6 15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7 50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9 00	9 15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10 65	10.80	10.95	11.10	11.25	11.40	11.55	11 70	11.85	7
8	12.00	12 15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13 50	13.65	13 80	13 95	14.10	14.25	14.40	14 55	14.70	14.85	9
10	15.00	15 15	15 30	15 45	15.60	15.75	15.90	16.05	16.20	16 35	10
11	16 50	16 65	16 80	16.95	17 10	17.25	17.40	17.55	17.70	17.85	11
12	18 00	18.15	18.30	18 45	18.60	18 75	18.90	19.05	19.20	19.35	12
13	19 50	19 65	19.80	19.95	20.10	20.25	20 40	20.55	20.70	20.85	13
14	21.00	21 15	21.30	21.45	21 60	21.75	21.90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24 15	24 30	24 45	24.60	24.75	24 90	25 05	25.20	25.35	16
17	25.50	25 65	25.80	25 95	26.10	26 25	26 40	26.55	26.70	26.85	17
18	27.00	27 15	27.30	27 45	27.60	27.75	27.90	28.05	28 20	28.35	18
19	28 50	28 65	28 80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30 00	30 15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31 50	31 65	31.80	31.95	32 10	32 25	32.40	32.55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33.60	33 75	33.90	34.05	34.20	34.35	22
23	34 50	34 65	34.80	34.95	35.10	35 25	35 40	35.55	35.70	35 85	23
24	36.00	36 15	36.30	36 45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37 80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39 00	39 15	39.30	39 45	39 60	39.75	39.90	40.05	40.20	40.35	26
27	40 50	40 65	40 80	40.95	41.10	41.25	41 40	41.55	41.70	41.85	27
28	42 00	42 15	42.30	42.45	42.60	42 75	42.90	43.05	43.20	43.35	28
29	43 50	43 65	43.80	43 95	44.10	44 25	44 40	44.55	44.70	44 85	29
30	45 00	45 15	45.30	45 45	45.60	45.75	45.90	46.05	46 20	46.35	30
31	46.50	46.65	46.80	46 95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48 00	48.15	48.30	48 45	48.60	48 75	48.90	49.05	49 20	49.35	32
33	49.50	49 65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51 00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52 50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54 00	54.15	54.30	54 45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55 50	55 65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57 45	57.60	57.75	57.90	58.05	58.20	58 35	38
39	58 50	58.65	58 80	58.95	59.10	59 25	59.40	59 55	59.70	59.85	39
40	60 00	60.15	60 30	60 45	60 60	60.75	60 90	61.05	61 20	61.35	40
41	61.50	61 65	61 80	61 95	62 10	62 25	62.40	62 55	62 70	62.85	41
42	63 00	63.15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64.35	42
43	64.50	64 65	64 80	64.95	65.10	65 25	65 40	65.55	65.70	65.85	43
44	66 00	66 15	66 30	66.45	66.60	66 75	66.90	67.05	67.20	67.35	44
45	67 50	67 65	67 80	67.95	68.10	68.25	68 40	68.55	68.70	68.85	45
46	69 00	69 15	69 30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70 50	70 65	70 80	70 95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72 15	72.30	72.45	72.60	72.75	72.90	73 05	73.20	73 35	48
49	73 50	73 65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

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