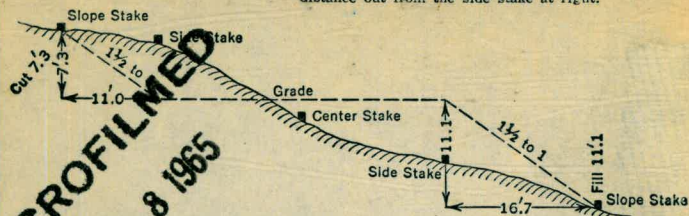


96

MISSION BAY

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

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



MICROFILMED
JAN 8 1965

MB No 96

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

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

PAGES	INDEX	DATE
1-24	CROSS SECTIONS E. SHORE AREA	12-10-56
25-28	PROFILE LEVELS N. 45. LEVEES FLOOD CHANNEL	1-16-57
29-76	SOUNDINGS N.E. AREA MISSION BAY	1-24-58

N. 42+37.57; 0+00 = W 5649.83 12-5-56

CROSS SECTIONS MISSION BAY PROJ. N. 64501

Sta	+	H.I.	-	Elev.
B.M.	4.80	26.30		21.50
0			4.5	21.8
W 100			5.2	21.1
W 120			5.3	21.0
W 150			7.1	19.2
W 200			7.1	19.2
W 300			8.8	17.5
W 350			9.2	17.1

NOTE: FOR B/L. SEE MB 90

(MB 90, P. 70)
6" Conc. Man.
Sta 181+50
± N. Level
N. 4237.57
W. 5649.83

N. 43+00; 0+00 = W 5669.60

0			9.5	16.8
W 100			11.6	14.7
W 200			12.4	13.9
W 300			12.4	13.9
W 330			10.00	16.30
E 100			7.1	19.2
E 200			8.0	18.3
E 282			5.1	21.2
E 300			(-3.0)	29.3

Top
Hi-way
TOP
Hi-way
Shoulder

N. 44+00; 0+00 = W 5701.27

Sta	+	H.I.	-	Elev
0		26.30	9.7	16.6
W 100			11.4	14.9
W 200			13.8	12.5
W 235			12.16	14.20
W 261			12.10	14.20
W 272			14.0	12.3
W 300 (cont'd pg 2)			14.1	12.2

N. 45+00; 0+00 = W 5732.93

0			10.6	15.7
W 100			12.3	14.0
W 131			12.30	14.00
W 160			12.65	13.65
W 200			13.1	13.2
W 267			13.4	12.9
E 100			9.8	16.5
E 200			8.6	17.7
E 255			6.3	20.0
E 288			(-0.6)	26.9

Toe
Hi-way
TOP
Shoulder

N. 46+00; 0+00 = W 5764.60 12-5-56

Sta.	+	H.I.	-	Elev
0		26.30	12.0	14.3
W 30			12.60	13.70 Ely EP
W 58			12.70	13.60 Wly EP
W 100			13.1	13.2
W 200			12.5	13.8
W 235			13.0	13.3
E 100			11.6	14.7
E 200			8.6	17.7
E 250			6.4	19.9 Toe Hi-Way
E 275			0.9	25.4 Top Shoulder

N. 44+00; 0+00 = 5701.27 (2)

Sta.	+	H.I.	-	Elev
E 100		26.30	8.4	17.9
E 200			8.1	18.2
E 270			7.2	19.1 Toe Hi-Way
E 297			(-2.1)	28.4 Top Shoulder
TP	12.07	25.30	13.07	13.23 N. 4700 W 5796.20
N. 47+00; 0+00 = W 5796.26				
0			12.3	13.0
E 45			11.80	13.50 Wly EP
E 71			11.95	13.35 Ely EP
E 100			11.8	13.5
E 200			8.7	16.6
E 247			7.3	18.0 Toe Hi-Way
E 272			1.50	23.80 EP
W 100			11.8	13.5
W 200			12.1	13.2

N. 48+00; 0+00 = W. 5827.92 12.5-56

Sta	+	H.I.	-	Elev
0		25.30	12.2	13.1
E23			12.8	12.5 W.E.P.
E55			12.4	12.9 E.E.P.
E70			12.8	12.5
E77			11.2	14.1
E100			11.7	13.6
E147			10.90	14.40 W14.E.P.
E187			9.20	16.10 E14.E.P.
E200			9.8	15.5
E238			9.3	16.0 ^{Toe} Hi-way
E266			2.85	22.45 E.P.
W100			12.3	13.0
W170			12.5	12.8

N. 49+00; 0+00 = W. 5859.59

Sta	+	H.I.	-	Elev	
0		25.30	12.2	13.1	
E100			12.2	13.1	
E186			12.1	13.2	
E200			10.0	15.3	
E248			9.2	16.1	Toe Hi-way
E265			4.65	20.65	E.P.
W27			11.4	13.9	
W30			13.1	12.2	
W41			12.9	12.4	E.P.
W73			13.1	12.2	E.P.
W100			13.3	12.0	
W140			12.9	12.4	

N. 50+00; 0+00 = W 5891.25 12-5-56

Sta	+	H.I.	-	Elev
0		25.30	12.3	13.0
E100			12.6	12.7
E204			12.3	13.0
E211			8.3	17.0
E260			8.5	16.8
E280			4.95	20.35
W110			12.8	12.5

N. 51+00; 0+00 = W 5922.92

0			12.4	12.9	
E100			12.6	12.7	
E200			13.4	11.9	
E228			12.4	12.9	Toe fill
E235			6.9	18.4	Top fill
E275			6.5	18.8	Toe Hi-Way
E285			5.30	20.00	EP

N. 52+00; 0+00 = W 5954.58

Sta	+	H.I.	-	Elev
0		25.30	13.1	12.2
E100			13.3	12.0
E200			13.1	12.2
E258			13.1	12.2
E267			6.5	18.8
E280			6.6	18.7
E291			5.45	19.85

N. 53+00; 0+00 = W 5986.25

0			13.4	11.9	
E100			13.6	11.7	
E200			13.6	11.7	
E277			12.8	12.5	
E286			6.7	18.6	
E296			5.50	19.80	EP

N. 54+00; 0+00 = W 6017.91 12-5-56

Sta + H.I. - Elev.

0 25.30 13.7 11.6

E 100 14.0 11.3

E 200 13.8 11.5

E 290 11.1 14.2

E 300 5.6 19.7

E 303 5.30 20.00

TOP
Curb

E 303 5.70 19.60

GUTER
N. 54+00

TR. 12.80 24.40 13.70 11.60 W. 6017.91

N. 55+00; 0+00 = W 6049.58

0 12.5 11.9

E 100 12.3 12.1

E 200 13.2 11.2

E 300 12.4 12.0

E 308 13.4 11.0

NOTE: See Location of Bridge Pg. 6

==

N. 56+00; 0+00 = W. 6081.25

Sta + H.I. - Elev

0 24.40 13.7 10.7

E 100 14.0 10.4

E 200 13.7 10.7

E 290 13.6 10.8

E 297 15.4 9.0

N. 57+00; 0+00 = W. 6112.91

0 14.4 10.0

E 100 14.5 9.9

E 200 15.2 9.2

E 288 14.3 10.1

E 298 15.7 8.7

N. 58+00; 0+00 = W. 6144.58

0 14.4 10.0

E 100 14.4 10.0

E 200 14.0 10.4

E 300 15.8 8.6

E 305 17.8 6.6

5

LOCATION OF CUDAHY SLOUGH BRIDGE

W.O. 64501

6

$\frac{N. 55+75.3}{\text{Grid. Sta.}}$

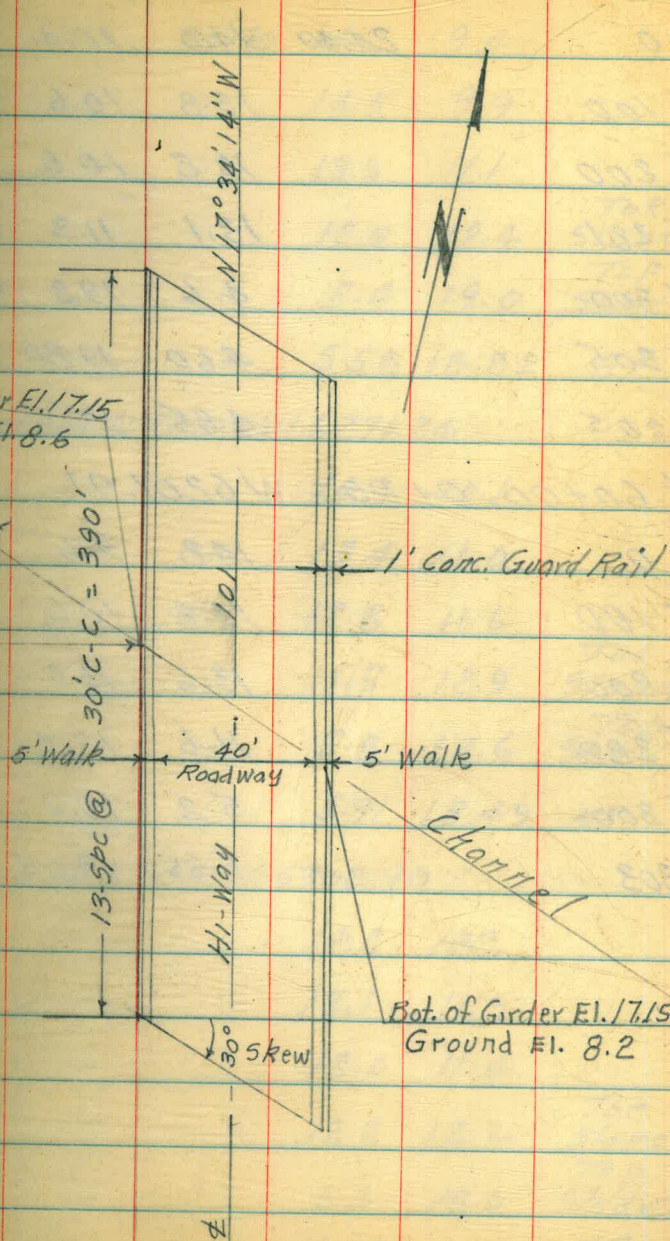
291.1'



NOTE: See Baseline Layout
in Field book No 90
Pg. 64

Baseline

N. 17° 34' 14" W



N 59+00; 0+00=W 6176.24 12-6-56

Sta + H.I. - Elev

0	24.40	14.0	10.4	
E 100		13.8	10.6	
E 200		13.8	10.6	
E 281		13.1	11.3	Toe Slope
E 300		4.6	19.8	Top Shldr
E 305		4.60	19.80	Top Ch
E 305		4.85	19.55	Gutter

N 60+00; 0+00=W 6207.91

0	14.8	9.6		
E 100		13.8	10.6	
E 200		13.6	10.8	
E 282		11.6	12.8	Toe Slope
E 300		5.2	19.2	Top Shldr
E 303		5.35	19.05	EP

N 61+00; 0+00=W 6239.57

Sta + H.I. - Elev

0	24.90	14.7	9.4	
E 100		14.5	9.9	
E 200		13.3	11.1	
E 284		12.0	12.4	Toe Slope
E 302		5.4	19.0	Top Shldr
E 304		5.58	18.82	EP

N 62+00; 0+00=W 6271.24

0	14.3	10.1		
E 100		13.4	11.0	
E 200		12.8	11.6	
E 291		11.5	12.9	Toe Slope
E 300		5.8	18.6	Top Shldr
E 304		5.91	18.49	EP

N 63+00; 0+00=W 6362.90

0	14.2	10.2		
E 100		13.1	11.3	
E 200		13.0	11.4	
E 292		12.2	12.2	Toe Slope
E 300		6.4	18.0	Top Shldr
E 304		6.43	17.97	EP

N.64+00; 0+00 = W 6334.57 12-6-56

Sta + H.I. - Elev.

0 24.40 14.0 10.4

E100 13.3 11.1

E200 12.7 11.7

E288 12.4 12.0

E300 6.6 17.8

E304 6.35 18.05

TP 10.34 20.84 13.90 10.50
N.65+00; 0+00 = W 6366.23

0 10.5 10.3

E100 9.6 11.2

E200 9.3 11.5

E290 7.9 12.9

E300 3.4 17.4

E303 3.30 17.54

N.66+00; 0+00 = W 6397.90

0 10.3 10.5

E100 9.7 11.1

E200 9.9 10.9

E289 9.1 11.7

E300 3.5 17.3

E303 3.52 17.32

N.67+00; 0+00 = W 6429.56

Sta + H.I. - Elev

0 20.84 10.2 10.6

E100 9.4 11.4

E200 10.0 10.8

E288 8.8 12.0

E300 4.0 16.8

E304 3.80 17.04

TP 9.84 20.90 9.78 11.06

N.68+00; 0+00 = W 6461.23

0 10.0 10.9

E100 9.8 11.1

E200 10.2 10.7

E289 9.6 11.3

E300 4.2 16.7

E303 4.30 16.60

Toe

Slope

TOP

Slope

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N 69+00; 0+00 = W 6492.89 12.6.56

Sta. + H.I. - Elev.

0	20.90	10.6	10.3
E 100		9.6	11.3
E 200		10.4	10.5
E 292		10.0	10.9
E 300		4.5	16.4
E 302		4.52	16.38

N. 70+00; 0+00 = W 6524.56

0	9.6	11.3	
E 9	5.2	15.7	
E 37	9.4	11.5	
E 68	6.2	14.7	
E 80	10.2	10.7	
E 100	10.6	10.3	
E 200	10.6	10.3	
E 290	10.1	10.8	Top Slope
E 300	4.7	16.2	Top Shldv
E 302	4.92	15.98	EP

N. 71+00; 0+00 = W 6556.22

Sta. + H.I. - Elev.

0	20.90	10.7	10.2
E 7		8.1	12.8
E 19		10.5	10.4
E 100		10.8	10.1
E 200		10.2	10.7
E 291		10.4	10.5
E 300		5.0	15.9
E 303		4.96	15.94

N. 72+00; 0+00 = W 6587.89

0	10.4	10.5	
E 100	10.4	10.5	
E 200	10.6	10.3	
E 290	9.9	11.0	Top Slope
E 300	4.8	16.1	Top Shldv
E 304	4.89	16.01	Top Curb
E 304	5.35	15.55	Gut
TP.	11.21	9.69	N. 7300 W 6619.55

10.91 20.60

LOCATION OF BRIDGE @ TECOLOTE CREEK MISSION BAY

NOTE: See B/L Layout in
Field Book No 90
Pg. 64

N. 12740
Grid. Sta.

N 17° 34' 14" W

90°

Baseline

Bot. Girder El. 13.20
Ground El. 9.2

291'

FLOW

3' Roadway

Hi-Way



101'

60°

SKEN 120'

Bot. Girder El. 13.20
Ground El. 9.4

5' WALKS

4-SPCS @ 30'

N.73+00; 0+00=W 6619.55 12-6-56

N.76+00; 0+00=W 6714.55

Sta	+	H.I.	-	Elev
0		20.60	10.9	9.7
E100			10.7	9.9
E200			10.2	10.4
E300			11.3	9.3

Sta	+	H.I.	-	Elev	
0		20.60	10.2	10.4	
E100			10.3	10.3	
E200			10.1	10.5	
E282			9.5	11.1	Toe Slope
E291			5.8	14.8	Top Shldr.
E303			5.45	15.15	E.P.

N.74+00; 0+00=W 6651.22

N.77+00; 0+00=W 6746.21

0		10.7	9.9	
E100		10.1	10.5	
E200		9.7	10.9	
E285		9.0	11.6	Toe Slope
E295		4.5	16.1	Top Shldr
E311		4.20	16.40	Top Curb
E311		4.60	16.00	Gutter

0		10.7	9.9	
E100		9.9	10.7	
E200		9.8	10.8	
E282		9.4	11.2	Toe Slope
E296		5.8	14.8	Top Shldr
E302		5.72	14.88	E.P.

N.75+00; 0+00=W 6682.88

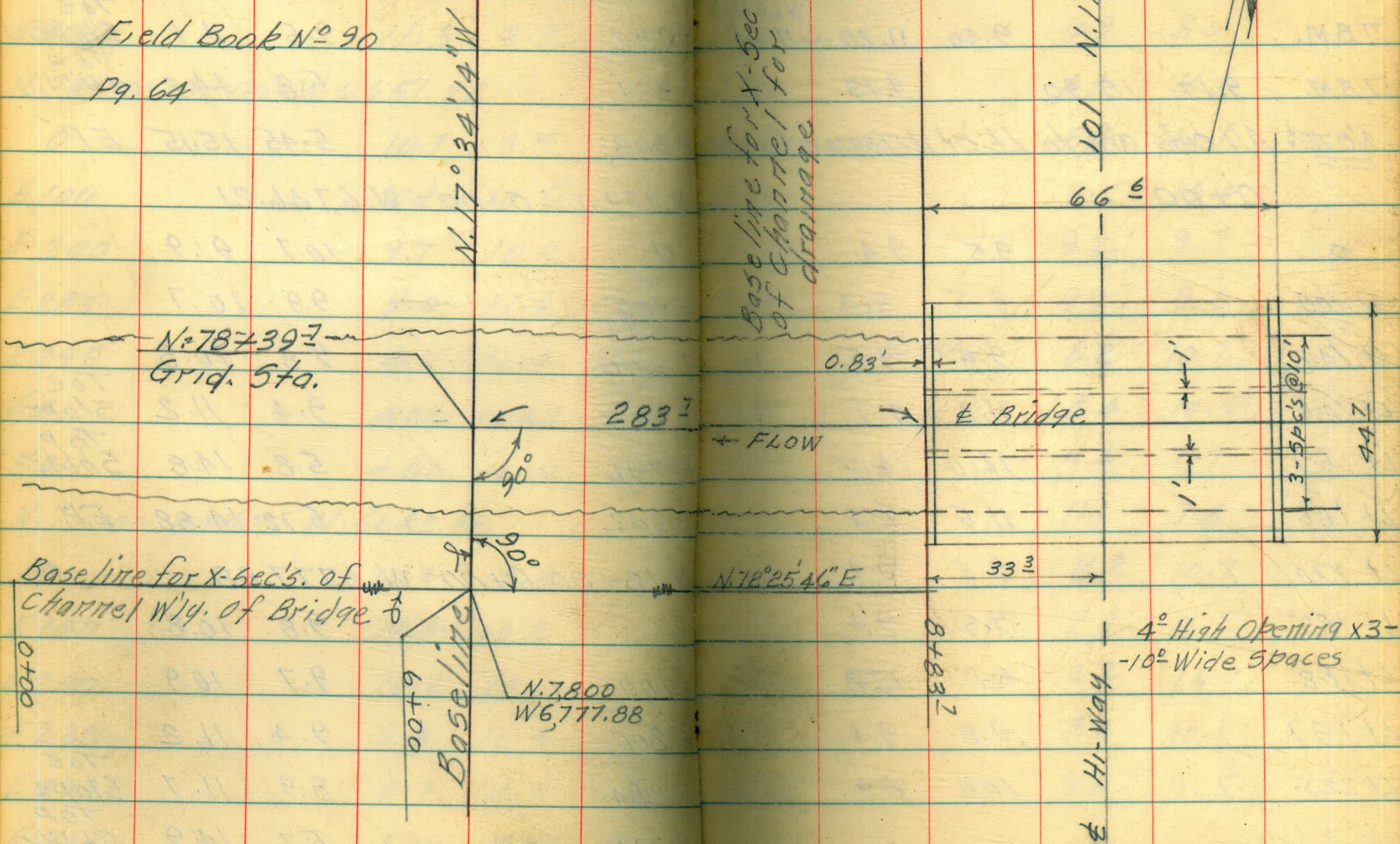
N.78+00; 0+00=W 6777.88

0		10.7	9.9	
E100		10.4	10.2	
E200		10.1	10.5	
E282		9.8	10.8	Toe Slope
E290		5.7	14.9	Top Shldr
E304		5.25	15.35	E.P.

0		9.8	10.8	
E100		9.7	10.9	
E200		9.4	11.2	
E284		8.9	11.7	Toe Slope
E294		5.7	14.9	Top Shldr
E302		5.73	14.87	E.P.

LOCATION OF BRIDGE No 57-143 ON
HI-WAY 101- MISSION BAY AREA

NOTE: For B/L Layout See
Field Book No 90
Pg. 64



CROSS SECTION OF CHANNEL W/ Y OF
BRIDGE N° 57-143 (see Sketch Pg. 12)

Sta + H.I. - Elev

20.60
TBM. 9.40 11.20 ~ 11.24

TBM. 9.17 18.90 9.73

NOTE: All outs are to Lt. Or N 173414 W from Bl.

0+00

0 9.5 9.4

Lt 100 9.5 9.4

Lt 144 9.4 9.5

Lt 146 11.2 7.7

Lt 157 12.0 6.9

Lt 166 11.5 7.4

Lt 170 9.5 9.4

Lt 185 9.5 9.4

Lt 188 6.1 12.8

Lt 197 9.8 9.1

Lt 225 10.0 8.9

Lt 80

Lt 83

Lt 100

Lt 104

Lt 122

Lt 135

Lt 144

Lt 200

0

Lt 34

Lt 40

Lt 56

Lt 62

Lt 72

Lt 82

Lt 99

Lt 150

1+00

H.I.

18.90

2+00

12-7-56

- Elev

9.3 9.6

8.8 10.1

11.5 7.4

10.9 8.0

8.8 10.1

8.8 10.1

5.5 13.4

9.2 9.7

9.9 9.0

8.2 10.7

8.4 10.5

11.2 7.7

11.1 7.8

8.2 10.7

7.7 11.2

2.2 16.7

8.8 10.1

9.4 9.5

(13)

	3+00	12-7-56		
Sta	+ H.I.	-	Elev	
0	18.90	9.7	9.2	
Lt 18		9.1	9.8	
Lt 32		6.0	12.9	
Lt 43		10.8	8.1	
Lt 56		10.5	8.4	
Lt 61		8.1	10.8	
Lt 77		7.3	11.6	
Lt 82		8.8	10.1	
Lt 100		8.8	10.1	
0	4+00	9.5	9.4	
Lt 19		9.1	9.8	
Lt 25		6.6	12.3	
Lt 37		6.6	12.3	
Lt 43		10.4	8.5	
Lt 58		10.4	8.5	
Lt 62		10.0	8.9	
Lt 72		7.0	11.9	
Lt 80		5.8	13.1	
Lt 84		9.1	9.8	
Lt 100		9.4	9.5	

	5+00			
Sta	+ H.I.	-	Elev	(14)
0	18.90	8.4	10.5	
Lt 13		8.4	10.5	
Lt 22		4.9	14.0	
Lt 35		5.0	13.9	
Lt 42		10.2	8.7	
Lt 56		10.2	8.7	
Lt 62		7.0	11.9	
Lt 77		5.6	13.3	
Lt 82		8.7	10.2	
Lt 100		8.8	10.1	
0	6+00	8.0	10.9	
Lt 8		7.8	11.1	
Lt 15		4.0	14.9	
Lt 34		5.7	13.2	
Lt 38		9.8	9.1	
Lt 57		9.8	9.1	
Lt 63		5.6	13.3	
Lt 78		4.7	14.2	
Lt 85		8.0	10.9	
Lt 100		8.2	10.7	

8+83.2 = Wly face of Hi-Way Bridge (15)

Sta	7+00	12-7-56	Elev
0	18.90	7.5	11.4
Lt 6		7.4	11.5
Lt 10		4.2	12.7
Lt 33		9.6	9.3
Lt 51		9.2	9.7
Lt 77		3.4	15.5
Lt 85		7.4	11.5
Lt 100		7.2	11.7
0	8+00	4.4	14.5
Rt 15		4.5	14.4
Rt 21		7.4	11.5
Lt 19		3.6	15.3
Lt 32		9.2	9.7
Lt 57		9.2	9.7
Lt 72		2.2	16.7
Lt 87		6.8	12.1
Lt 100		7.0	11.9
TP		7.62	11.28 - 11.24

Sta	+	H.I.	-	Elev
TBM.	11.16	22.40		11.24
0			7.7	14.7
Lt 70			7.8	14.6
Lt 26			12.1	10.3
Lt 42			13.50	8.90
Lt 58			11.9	11.5
Lt 66			7.7	14.7

7+50.3 = Ely Face of Bridge

Lt 42	13.35	9.05	Ely F.L.
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N. 8,000

W. 6561.15

F.L.

4" High opening

Ely F.L.

N.79+00; 0+00 = W 6809.54 12-7-56

Sta + H.I. - Eled

0 22.40 11.6 10.8
 E 70 11.3 11.1
 E 95 7.9 14.5
 E 168 12.8 9.6
 E 200 12.7 9.7
 E 250 12.6 9.8
 E 285 7.2 15.2
 E 300 8.10 14.30 E.P.
 TBM. 11.16 11.24 ~ 11.21

N. 52+00; 0+00 = W. 8,000

TBM. 6.34 18.30 11.96
 E 0 7.0 11.3
 E 100 7.4 10.9
 E 200 7.7 10.6
 E 300 7.8 10.5
 E 400 7.7 10.6
 E 500 8.0 10.3
 E 600 7.1 11.2
 E 700 6.9 11.4
 E 800 7.1 11.2

N. 52+00 CONTD EAST

Sta + H.I. - Eled

E 900 18.30 7.8 10.5
 E 1000 7.8 10.5
 E 1100 7.3 11.0
 E 1200 6.3 12.0
 E 1300 6.1 12.2
 E 1400 7.2 11.1
 E 1500 6.7 11.6
 E 1600 6.2 12.1
 E 1648 6.5 11.8

E 1690 6.8 11.5
 E 1696 7.2 11.1
 E 1700 5.7 12.6
 E 1800 6.6 11.7
 E 1900 6.3 12.0
 E 2000 6.2 12.1

W Edge
Ac. Road

E.H.P.

N. 52+00
W 8,000

N.54+00; 0+00 = W.6,100 12-7-56

Sta	+	H.I.	-	Elev
0		18.30	7.1	11.2
W 100			7.4	10.9
W 200			6.8	11.5
W 300			6.9	11.4
W 400			7.1	11.2
W 500			7.4	10.9
W 508			7.6	10.7
W 516			7.6	10.7
W 600			7.0	11.3
W 700			7.2	11.1
W 800			8.0	10.3
W 900			7.7	10.6
W 1000			8.2	10.1
W 1100			8.0	10.3
W 1200			8.0	10.3
W 1300			7.8	10.5
W 1400			7.6	10.7
W 1500			8.0	10.3
W 1600			8.6	9.7
W 1700			8.1	10.2

N.54+00 CONTD WEST

Sta	+	H.I.	-	Elev
W 1800		18.30	8.3	10.0
W 1900			7.9	10.4
N.56+00; 0+00 = W.8,000				
0			9.1	9.2
E 100			9.1	9.2
E 200			8.7	9.6
E 300			8.2	10.1
E 400			8.4	9.9
E 500			8.3	10.0
E 600			8.8	9.5
E 700			8.6	9.7
E 800			8.4	9.9
E 900			9.0	9.3
E 1000			8.4	9.9
E 1092			8.0	10.3
E 1100			7.9	10.4
E 1129			7.6	10.7
E 1200			7.4	10.9

Contd Pg 18.

N. 58+00; 0+00 = W. 8,000 12-7-56				
Sta	+	H. I.	-	Elev.
0		18.30	8.6	9.7
E 100			8.9	9.4
E 200			9.4	8.9
E 300			10.3	8.0
E 400			10.2	8.1
E 500			9.4	8.9
E 600			9.5	8.8
E 700			8.8	9.5
E 800			9.2	9.1
E 900			7.6	10.7
E 1000			7.6	10.7
TR.	7.35	17.60	8.05	10.25
E 1100			7.4	10.2
E 1200			7.8	9.8
E 1300			8.0	9.6
E 1400			7.5	10.1
E 1500			6.8	10.8
E 1600			6.5	11.1
E 1700			6.8	10.8
E 1800			6.8	10.8

N. 56+00; 0+00 = W. 6,100 (13)				
Sta	+	H. I.	-	Elev.
0		17.60	6.1	11.5
W 100			5.6	12.0
W 200			5.8	11.8
W 300			6.1	11.5
W 400			6.6	11.0
W 500			6.9	10.7
W 600			6.5	11.1
N. 60+00; 0+00 = W. 6,300				
0			6.9	10.7
W 100			7.1	10.5
W 200			6.2	11.4
W 300			6.6	11.0
W 400			6.3	11.1
W 500			7.9	9.7
W 600			6.9	10.7
W 700			6.8	10.8
W 800			7.1	10.5
W 900			7.5	10.1
W 1000			7.8	9.8
W 1100			8.0	9.6

N. 60+00; CONTD. WEST 12-7-56

N. 62+00 CONTD. EAST

Sta	+	H.I.	-	Elev
W1200		17.60	7.8	9.8
W1300			8.3	9.3
W1400			9.0	8.6
W1500			8.4	9.2
W1600			9.9	7.7
W1700			8.1	9.5

Sta	+	H.I.	-	Elev
E1300		17.60	7.1	10.5
E1400			7.2	10.4
E1500			6.7	10.9
E1600			6.8	10.8
E1700			7.3	10.3

N. 62+00; 0+00 = W. 8.000

N. 64+00; 0+00 = W. 6400

0			9.8	7.8
E100	7900		8.0	9.6
E200	7800		8.3	9.3
E300	77		7.7	9.9
E400	76		7.9	9.7
E500	75		7.4	10.2
E600	74		7.2	10.4
E700	73		6.9	10.7
E800	72		8.0	9.6
E900	71		8.1	9.5
E1000			7.2	10.4
E1100			6.7	10.9
E1200			6.9	10.7

0	64		6.9	10.7
W100	65		7.0	10.6
W200	66		6.5	11.1
W300	67		7.4	10.2
W400	68		6.5	11.1
W500	69		7.4	10.2
W600	70		7.1	10.5
W700	71	10400	7.0	10.6
W800	72		5.7	11.9
W900	73		7.9	9.7
W1000	74		8.6	9.0
W1100	75		7.4	10.2
W1200	76		7.6	10.0
W1300	77		7.9	9.7

N. 64+00 CONTD WEST 12-7-56

Sta + H.I. - Elev

W/400 78 17.60 7.8 9.8

W/500 79 8.4 9.2

W/600 80 9.9 7.7

N 66+00; 0+00 = W. 8,000

0 7.6 10.0

E 100 7900 7.8 9.8

E 200 7800 8.1 9.5

E 300 7700 9.1 8.5

E 400 7600 8.8 8.8

E 500 7500 7.8 9.8

E 600 7400 7.3 10.3

E 700 7300 7.1 10.5

E 800 7200 7.3 10.3

E 900 7100 7.3 10.3

E 1000 6.9 10.7

E 1100 7.4 10.2

E 1200 6.8 10.8

E 1300 6.9 10.7

E 1400 7.3 10.3

E 1500 6.7 10.9

E 1600 6.9 10.7

N. 68+00; 0+00 = W 6,500 12-10-56

Sta + H.I. - Elev

TBM. 17.60 8.00 9.60 ~ 9.59

TBM. 5.56 16.10 10.54

0 5.1 11.0

W 100 6600 5.3 10.8

W 200 6700 5.5 10.6

W 300 6800 5.3 10.8

W 400 6900 5.8 10.3

W 500 7000 5.4 10.7

W 600 7100 6.2 9.9

W 700 7200 6.2 9.9

W 800 7300 6.4 9.7

W 900 7400 6.4 9.7

W 1000 7500 6.5 9.6

W 1100 7600 7.2 8.9

W 1200 7700 6.4 9.7

W 1300 7800 7.0 9.1

W 1400 7900 7.4 8.7

W 1500 8000 6.8 9.3

(20)

N. 6000

W 6207.91

9.59

N 890, P 9.67

N 7000

W 6524.56

N.70+00; 0+00=W.8,000 12-10-56

Sta	+	H.I.	-	Ele
0		16.10	7.6	8.5
E 100	7900		6.9	9.2
E 200	7800		7.2	8.9
E 300	7700		7.7	8.4
E 400	76		7.1	9.0
E 500	75		7.1	9.0
E 600	74		6.4	9.7
E 700	73		6.7	9.4
E 800	72		6.5	9.6
E 900	71		6.6	9.5
E 1000	7000		5.9	10.2
E 1100			5.8	10.3
E 1200			5.9	10.2
E 1300			5.8	10.3
E 1400			5.6	10.5

N.72+00; 0+00=W.6,600 (2)

Sta	+	H.I.	-	Ele
0		16.10	6.2	9.9
W 52	6652		7.4	8.7
W 60	6660		4.4	11.7
W 75	6675		8.5	7.6
W 84	6684		8.7	7.4
W 91	6691		5.4	10.7
W 100	6700		5.4	10.7
W 200	6800		5.4	10.7
W 300	6900		6.2	9.9
W 391	6991		6.3	9.8
W 404	7004		8.9	7.2
W 422	7022		9.5	6.6
W 432	7032		6.1	10.0
W 500	7100		6.2	9.9
W 600	7200		6.6	9.5
W 700	7300		6.7	9.4
W 800	7400		6.5	9.6
W 900	7500		6.9	9.2
W 1000	7600		7.0	9.1
W 1100	7700		7.6	8.5

N.72+00 CONTD. WEST 12-10-56

N.74+00 CONTD EAST

Sta	+	H.L.	-	Elev
W.1200	7800	16.10	7.5	8.6
E W1300	7900		7.5	8.6
E W1400	8000		7.0	9.1
E N.74+00; 0+00 = W.8,000				
E 0	8000		7.8	8.3
E E 15	7985		8.2	7.9
E E 21	7979		10.1	6.0
E E 31	7969		10.7	5.4
E E 37	7963		8.9	7.2
E E 100	7900		7.4	8.7
E E 200	7800		7.0	9.1
E E 300	7700		7.2	8.9
E E 400	7600		7.4	8.7
E E 500	7500		7.2	8.9
E E 600	7400		7.0	9.1
E 700	7300		6.7	9.4
E 800	7200		6.0	10.1
E 807	7193		5.9	10.2
E 817	7183		9.3	6.8
E 836	7164		10.0	6.1

Sta	+	H.L.	-	Elev
E 848	7152	16.10	6.6	10.1
E 900	7100		6.4	9.7
E 1000			6.8	9.3
E 1100			6.1	10.0
E 1160			7.0	9.1
E 1164			8.9	7.2
E 1173			9.0	7.1
E 1187			5.4	10.7
E 1200			6.7	9.4
E 1300			6.4	9.7
TP	10.20	20.10	6.20	9.90
N.76+00; 0+00 = W 6800				
0			10.1	10.0
W 100	6900		10.8	9.3
W 184	6984		10.9	9.2
W 200	7000		7.8	12.3
W 212	7012		11.3	8.8
W 223	7023		11.0	9.1
W 232	7032		10.0	10.1
W 300	7100		10.5	9.6

N.76+00 CONTD WEST 12-10-56

Sta	+	H.I.	-	Elev
W 400	7200	20.10	10.1	10.0
E W 500	7300		10.5	9.6
E W 600	7400		11.0	9.1
E W 700	7500		11.3	8.8
E W 800	7600		11.5	8.6
E W 870	7670		12.2	7.9
E W 875	7675		14.5	5.6
E W 882	7682		11.8	8.3
E W 900	7700		10.8	9.3
E W 1000	7800		12.0	8.1
E W 1100	7900		12.0	8.1
E W 1200	8000		11.6	8.5
E N.78+00; 0+00 = W. 8.000				
A 0			11.9	8.2
E 100	7900		12.1	8.0
E 200	7800		12.0	8.1
E 300	7700		11.4	8.7
E 374	7626		10.9	9.2
E 376	7624		14.4	5.7
E 387	7613		11.7	8.4

N.78+00; CONTD EAST

Sta	+	H.I.	-	Elev
E 400	7600	20.10	11.2	8.9
E 491	75019		11.2	8.9
E 500	7500		15.1	5.0
E 536	7464		11.5	8.6
E 560	7440		10.8	9.3
E 590	7410		8.1	12.0
E 610	7390		7.8	12.3
E 624	7376		11.0	9.1
E 700	7300		10.4	8.7
E 800	7200		10.4	8.7
E 900	7100		10.0	10.1
E 950			10.4	8.7
E 980			8.5	11.6
E 1000			8.6	11.5
E 1027			9.3	10.8
E 1043			12.1	8.0
E 1080			11.7	8.4
E 1100			6.9	13.2
E 1153			5.1	15.0

N. 78+00 CONTD EAST. 12-10-56

Sta + H.I - Elev

E1178 20.10 9.1 11.0

E1200 9.2 10.9 (pg. 9)
N-7300

TP 10.40 9.70 - 9.69
W66195

PROFILE LEVELS ALONG \pm OF NORTH
 \pm SOUTH LEVEES OF FLOOD CHANNEL
 MISSION BAY W.O. 64501

INDEXED

1-16-57

(25)

Stamper
 Huffmann
 Blott
 Kelley

Sta + H.I. - Elev

(NB 95, Pg. 26)

B.M. 12.20

B.P.E. Culu. Hdwall; 1-st Culu. N. of Midway Bridge

10.85 23.05

112+00 4.9 18.1 \pm N. Levee

TP. 4.88 18.17

4.38 22.55

120+00 4.15 18.40 \pm N. Levee

TP. 4.85 17.70 P.K. Tel. Pole N. Side N. Levee Sta. 120+60 \pm

6.10 23.80

130+00 5.2 18.6 \pm N. Levee

TP. 4.50 19.30 P.K. Tel Pole N. Side N. Levee Sta 130+13 \pm

5.91 25.21

140+00 5.95 19.26 \pm N. Levee

TP. 6.28 18.93 P.K. P.P. N. Side N. Levee Sta 141+00 \pm N° 279773

5.67 24.60

150+00 4.50 19.90 \pm N. Levee

TP. 4.60 20.00 P.K. P.P. N° 279770 N. Side N. Levee 150+03 \pm

5.40 25.40

PROFILE & N. LEVEE CONTD

1-23-57

Sta	+	H.I.	-	Elev	
		25.40			
160+00			5.20	20.20	& N. Levee
TP.			4.02	21.38	P.K. P.P. N. Side N. Levee Sta. 158+95 ±
	5.17	26.55			
170+00			5.20	21.35	& N. Levee
TP.			6.03	20.52	Set Nail P.P. No 279763 Sta 170+80 ±
	6.58	27.10			
180+00			5.6	21.5	& N. Levee
B.M.			5.42	21.68 ~ 21.50	181+50 & N. Levee (M.B. 90 Pg. 70)
181+50			5.1	22.00	
B.M.				21.50	
	13.67	35.17			
B.M.			3.68	31.49	U.S.E.D. River Wly Walk Hi-way 101-Bridge
	2.00	33.49			over Flood Control Channel Approx & Bridge
185+00			8.9	24.6	& S. Levee
181+50			9.6	23.9	& S. Levee
B.M.			9.98	23.51	6" Conc. Nail 181+50 & S. Levee
	5.32	28.83			
180+00			5.0	23.8	& S. Levee
170+00			5.8	23.0	& S. Levee

PROFILE & S. LEVEE CONTD.

Sta	+ H.I.	- Elev	
	28.83		
TP.		6.83	22.00
	5.65	27.65	
160+00		5.4	22.2
TP.		5.20	22.45
	5.25	27.70	
150+00		5.8	21.9
B.M.		6.05	21.65
	5.71	27.36	
B.M.		6.08	21.28
	5.81	27.09	
140+00		4.7	22.4
B.M.		6.26	20.83
	4.15	24.98	
130+00		4.7	20.3
B.M.		6.17	18.81
	3.75	22.56	
120+00		3.8	18.8
TP.		0.38	22.18
	4.64	26.82	

1-23-57

PK. P.P. No 279901 Sta. 170+00 ± 5.5. Levee.

± 5. Levee

± 5. Levee

153+00 ± 5. Levee 6" Conc. Mort.

143+00 ± 5. Levee 6" Conc. Mort.

± 5. Levee

133+00 ± 5. Levee 6" Conc. Mort.

± 5. Levee

123+00 ± 5. Levee 6" Conc. Mort.

± 5. Levee

LEVELS CONTD

1-23-57

Sta	+	H.I	-	Elev
		26.82		

TP.			5.19	21.63
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	0.78	22.41		
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B.M.			11.72	10.69 ~ 10.84
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Chis/a S.W. Cor Culv Inlet Sta. 104+00
 @ S. Levee (M.B. 55, Pg. 26)

Ref NB 102 1-10-57 W064501
 SOUNDINGS NELY AREA MISSION BAY

W152+00; 0+00 = N/0444.44 SOUND SOUTH (29)
 Dist Sound Elev Dist Sound Elev

Sta	Dist	Sound	Elev	Dist	Sound	Elev	Sta	Dist	Sound	Elev		
57A. W. 153+00; 0+00 = N/0388.89; SOUND SOUTH	0+00						2+00	6.4	2.7			
				(3.7)	0.5	+3.2	(3.7)	9.2	5.5			
	0+00	1.8	+1.8	(3.6)	6.0	2.4	<u>9.35</u>	11.4	7.7			
	(3.6)	2.2	+1.4		8.0	4.4		12.1	8.4			
	<u>9.25</u>	3.0	+0.6	2+00	7.7	3.1		12.6	8.9			
		4.0	0.4		8.1	4.5	50	13.1	9.4			
		5.1	1.5		11.4	7.8		13.5	9.8			
	50	5.8	2.2		13.0	8.4		13.4	9.7			
		6.3	2.7		14.3	10.7		13.5	9.8			
		4.8	1.2	50	14.9	11.3		14.1	10.4			
		3.5	+0.9	SOUND NORTH			1+00	5.3	1.6	3+00	14.1	10.4
		3.7	0.1	^{2:30} 0+10	1.1	+2.5		5.3	1.6		13.6	9.9
	1+00	4.0	0.4	(3.6)	0.7	+2.9		4.7	1.0		14.0	10.3
		4.7	1.1	0+30	0.2	+3.4		4.3	0.6		14.2	10.5
		4.9	1.3					3.9	0.2		14.3	10.6
		4.5	0.9				50	3.6	+0.1	50	14.7	11.0
		4.6	1.0					3.3	+0.4		13.9	10.2
	50	5.2	1.6					3.2	+0.5		13.9	10.2
		5.5	1.9					3.0	+0.6		14.0	10.3
		5.5	1.9					3.6	+0.1		14.1	10.4

W152+00 CONTD SOUTH 1-10-58

Dist Sound Elev Dist Sound Elev

4+00 14.3 10.6 6+00

(3.7) 14.4 10.7

9.40 14.2 10.5

13.6 9.9

13.0 9.3

50 12.4 8.7

11.9 8.2

11.0 7.3

8.9 5.2

3.3 +0.4

5+00 1.6 +2.1

50

(30)

W151+00; 0+00=N.10500; SOUND SOUTH

Dist Sound Elev Dist Sound Elev

0+30 0.0 +3.8 (3.8) 10.9 7.1

(38) 0.6 +3.2 11.9 8.1

50 1.2 +2.6 12.6 8.8

9.45 1.9 +1.9 50 12.6 8.8

2.4 +1.4 12.3 8.5

3.1 +0.7 12.3 8.5

3.6 +0.2 12.8 9.0

1+00 3.9 0.1 12.4 8.6

3.9 0.1 3+00 12.3 8.5

3.8 0.0 9.50 12.6 8.8

3.8 0.0 12.9 9.1

3.8 0.0 13.0 9.2

50 4.3 0.5 13.3 9.5

4.8 1.0 50 13.5 9.7

5.0 1.2 13.9 10.1

5.0 1.2 13.9

4.8 1.0 13.9

2+00 4.8 1.0 13.9

8.1 4.3 4+00 13.9 10.1

W151+00 CONTD SOUTH 1-10-58.

Dist Sound Elev Dist Sound Elev

(3.9) 13.6 9.7

13.6 9.7

13.6 9.7

13.3 9.4

50 12.9 9.0

12.4 8.5

9.7 5.8

4.9 1.0

9.53 3.7 +0.2

5+00 2.4 +1.5

(3)

W150+00; 0+00 = N10.555.55; SOUND SOUTH

Dist Sound Elev Dist Sound Elev

0+70 0.6 +3.3

(3.9) 1.2 +2.7

1.8 +2.1

1+00 2.4 +0.5

9.58 3.2 +0.7

3.9 0.0

4.2 0.3

4.3 0.4

50 4.1 0.2

3.9 0.0

3.9 0.0

3.7 +0.2

3.4 +0.5

2+00 4.5 0.6

7.3 3.4

9.6 5.7

10.4 8.5

12.3 8.4

50 12.4 8.5

13.0 9.1

(3.9) 13.3 9.4

13.3 9.4

13.4 9.5

3+00 13.4 9.5

13.4 9.5

13.5 9.6

13.7 9.8

13.7 9.8

50 13.6 9.7

13.4 9.5

13.4 9.5

13.4 9.5

13.1 9.2

4+00 13.1 9.2

12.9 9.0

13.0 9.1

13.3 9.4

13.3 9.4

50 13.2 9.3

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W. 149+00: 0+00 = N. 10.611.11. SOUND SOUTH

Dist. Sound Elev. Dist. Sound Elev.

0+00 (4.0) 4.2 0.2

(4.0) 2+00 4.2 0.2

5.3 1.3

8.1 4.1

10.3 6.3

10.8 6.8

50 11.6 7.6

0.9 +3.1 12.0 8.0

1.1 +2.9 12.3 8.3

1.4 +2.6 12.7 8.7

1+00 1.8 +2.2 13.0 9.0

2.6 +1.4 3+00 13.3 9.3

3.0 +1.0 13.3 9.3

3.4 +0.6 13.5 9.5

3.8 +0.2 13.8 9.8

50 4.0 0.0 13.8 9.8

4.2 0.2 50 14.0 10.0

4.2 0.2 14.2 10.2

4.2 0.2 14.2 10.2

W. 149+00 CONTD SOUTH

(32)

Dist. Sound Elev. Dist. Sound Elev.

(4.0) 14.2 10.2

14.2 10.2

4+00 14.0 10.0 6+00

14.2 10.2

14.0 10.0

13.9 9.9

13.4 9.4

50 13.4 9.4

12.9 8.1

11.2 7.2

8.7 4.7

6.2 2.2

5+00 5.1 1.1

13.3 9.3

13.5 9.5

13.8 9.8

13.8 9.8

50 14.0 10.0

14.2 10.2

14.2 10.2

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W. 148+00; 0+00 = NY 0666.66; SOUND SOUTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	2.7	+1.4	(4.1)	3.9	+0.2
(4.1)	2.7	+1.4	2+00	4.5	0.4
10:20	3.0	+1.1		7.2	7.1
<u> </u>	3.1	+1.0		10.4	6.3
	3.1			11.0	6.9
50	3.1			11.7	7.6
	3.1	+1.0	50	12.5	8.4
	3.3	+0.8	4	12.9	8.8
	3.1	+1.0		12.9	
	3.0	+1.1		12.9	
1+00	2.8	+1.3		12.9	8.8
	2.8	+1.3	3+00	12.8	8.7
	3.0	+1.1		12.8	8.7
	3.0	+1.1		12.8	8.7
	3.2	+0.9		13.1	9.0
50	3.4	+0.7		13.3	9.2
	3.4		50	13.4	9.3
	3.4	+		14.0	9.9
	3.4	+0.7		14.0	9.9

W. 148+00 CONTD SOUTH

DIST SOUND ELEV DIST SOUND ELEV

(4.2) 13.8 9.6 SOUND NORTH

10:25	13.8	9.6	0+10	2.8	+1.4
4+00	14.0	9.8	(4.2)	3.0	+1.2
	14.0		10:30	2.8	+1.4
	14.0		<u> </u>	2.9	+1.3
	14.0	9.8	50	2.8	+1.4
	13.7	9.5		2.7	+1.5
50	13.4	9.2		2.7	+1.5
	13.1	8.9		2.7	+1.5
	12.5	8.3		2.6	+1.6
	10.0	5.8	1+00	2.5	+1.7
	7.9	3.7		2.5	
5+00	6.0	1.8		2.5	
	6.1	1.9		2.5	+1.7
	6.0	1.8		2.4	+1.8
	6.3	2.1	50	2.6	+1.6
	6.0	1.8		2.5	+1.7
50	5.3	1.1		2.3	+1.9
				2.3	+1.9
				2.8	+1.4
			2+00	3.0	+1.2

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W148+00 CONTD NORTH

DIST	Sound	Elev	DIST	Sound	Elev
2+10	2.6	+1.7	(4.3)		
(4.3)	2.8	+1.5	4+00	2.0	+2.3
1033	2.6	+1.7		2.0	+2.3
50	2.7	+1.6		2.0	+2.3
50	2.6	+1.7		1.9	+2.4
50	2.6	+1.7		1.7	+2.6
	2.6	+1.7	50	1.6	+2.7
	2.7	+1.6		1.4	+2.9
	2.7	+1.6		1.4	+2.9
3+00	2.7	+1.6			
1+00	2.4	+1.9			
	2.4	+1.9	3+00		
	2.3	+2.0			
	2.3	+2.0			
50	2.1	+2.2			
50	2.1				
	2.1		50		
	2.1	+2.2			
	2.0	+2.3			

P → (39)

W147+00:0+00=N1072222: SOUND NORTH

DIST	Sound	Elev	DIST	Sound	Elev
0+00	3.1	+1.2	(4.3)	4.4	0.1
(4.3)	3.1	+1.2	2+00	5.1	0.8
1040	3.2	+1.1		6.2	1.9
50	3.3	+1.0		9.1	4.8
	3.2	+1.1		10.4	6.1
50	3.0	+1.3		11.3	7.0
	3.2	+1.1	50	12.0	7.7
	3.4	+0.9		12.1	7.8
	3.7	+0.6		12.4	8.1
	3.6	+0.7		12.6	8.3
+00	3.7	+0.6		12.7	8.4
	3.8	+0.5	3+00	12.8	8.5
	4.1	+0.2		12.7	8.4
	4.1			13.0	8.7
	4.1			13.0	8.7
50	4.1	+0.2		13.1	8.8
	4.0	+0.3	50	13.3	9.0
	4.2	+0.1		13.6	9.3
	4.3	0.0		13.7	9.4

W/47+00 CONTD SOUTH					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.3)	13.7	9.4	(4.4)	3.2	+1.2
	13.4	9.1		3.1	+1.3
4+00	13.1	8.8		3.0	+1.4
	13.1	8.8	1+00	2.9	+1.5
	13.2	8.9		2.9	
	13.1	8.8		2.9	
	13.1	8.8		2.9	
50	13.2	8.9		2.9	
	12.8	8.5	50	2.9	
	12.2	7.9		2.9	
	10.8	6.5		2.9	
	6.9	2.6		2.9	
5+00	5.3	1.0		2.9	+1.5
SOUND NORTH?			2+00	3.0	+1.4
				2.9	+1.5
0+10	3.2	+1.1		2.9	+1.5
(4.3)	3.2			2.9	+1.7
				2.7	+1.7
<u>10.47</u>	3.2		50	2.7	+1.7
50	3.2			2.8	+1.6
50	3.2			2.8	+1.6
	3.2	+1.1	2+80	2.8	+1.6

W/46+00; 0+00=N/10, 777.78; SOUND SOUTH					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	3.6	+0.9	2+00	5.1	0.6
(4.5)	3.7	+0.8	(4.5)	6.5	2.0
<u>10.57</u>	3.6	+0.9	<u>11.00</u>	9.1	4.6
	3.6			10.4	5.9
	3.6			11.5	7.0
50	3.6		50	12.0	7.5
	3.6	+0.9		12.1	7.6
	3.8	+0.7		12.2	7.7
	3.8	+0.7		12.6	8.1
	3.8	+0.7		12.8	8.3
1+00	3.9	+0.6	3+00	12.7	8.2
	4.0	+0.5		12.7	8.2
	4.0	+0.5		12.5	8.0
	4.2	+0.1		12.8	8.3
	4.2	+0.1		13.0	8.5
50	4.4	+0.1	50	13.0	8.5
	4.7	0.2		13.2	8.7
	5.1	0.6		13.0	8.5
	4.8	0.3		13.0	8.5
	4.8	0.3		13.0	8.5

W146+00 CONTD SOUTH / -10-58
 Dist Sound Elev Dist Sound Elev

4+00	13.0	8.5	(4.5)	3.7	+0.8
(4.5)	13.0		1+00	3.7	
	13.0			3.7	
	13.0			3.7	
	13.0	8.5		3.7	
50	12.8	8.3		3.7	
	12.4	7.9	50	3.7	
	11.1	6.6		3.7	+0.8
	8.1	3.6		3.4	+1.1
<u>1105</u>	4.9	0.9		3.4	
5+00	4.4	+0.1		3.4	
SOUND NORTH			2+00	3.4	
0+10	3.7	+0.8		3.4	
	3.9	+0.6	2+20	3.4	+1.1
<u>1107</u>	3.7	+0.8			
	3.7				
50	3.7				
	3.7				
	3.7				
	3.7	+0.8			

W145+00: 0+00 = N10833.33. SOUND SOUTH (56)

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.4	+1.2	(4.6)	4.8	0.2
(4.6)	3.4	+1.2	2+00	4.9	0.3
11V5	3.5	+1.1		5.3	0.7
	3.8	+0.8		6.9	2.3
	4.0	+0.6		9.7	5.1
50	4.1	+0.5		11.2	6.6
	4.2	+0.4	50	11.8	7.2
	4.1	+0.5		12.0	7.4
	4.2	+0.4		12.1	7.5
	4.2	+0.4		12.2	7.6
1+00	4.1	+0.5		12.2	
	4.1	+0.5	3+00	12.2	
	4.1	+0.5		12.2	7.6
	4.4	+0.2		12.3	7.7
	4.6	0.0		12.7	8.1
50	4.5	+0.1		12.6	8.0
	4.3	+0.3	50	12.6	8.0
	4.3	+0.3		12.7	8.1
	4.5	+0.1		12.8	8.2

W145+00 CONTD SOUTH 1-10-58

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.7)	13.0	8.3	(4.7)	3.3	+1.4
	13.0	8.3		3.3	+1.4
4+00	13.1	8.4		3.3	+1.4
	13.2	8.5	1+00	3.4	+1.3
	13.3	8.6		3.4	+1.3
	13.6	8.9		3.4	+1.3
	13.7	9.0		3.5	+1.2
50	13.6	8.9		3.6	+1.1
	13.5	8.8	50	3.8	+0.9
	13.0	8.3		3.9	+0.8
	8.9	4.2	1+70	4.0	+0.7
	5.3	0.6			
5+00	4.7	0.0			
SOUND NORTH					
0+10	3.7	+1.0			
	3.7	+1.0			
<u>11:20</u>	3.6	+1.1			
	3.5	+1.2			
50	3.4	+1.3			
	3.3	+1.4			

W144+00:0+00 = N10888.89. SOUND SOUTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	12.3	7.6	(4.7)	13.9	9.2
(4.7)	12.2	7.5	2+00	14.0	9.3
11:25	12.4	7.7		14.0	9.3
	12.8	8.1		14.2	9.5
	13.0	8.3		14.0	9.3
50	13.0	8.3		14.1	9.4
	13.2	8.5	50	14.2	9.5
	13.2	8.5		14.2	9.5
	13.3	8.6		14.2	9.5
	13.4	8.7		14.3	9.6
1+00	13.2	8.5		13.9	9.2
	13.4	8.7	3+00	13.1	8.4
	13.1	8.4		12.0	7.3
	13.5	8.8		12.2	7.5
	13.3	8.6		12.0	7.3
50	13.4	8.7		12.3	7.6
	13.7	9.0	50	12.7	8.0
	13.8	9.1		12.9	8.2
	13.8	9.1		13.0	8.3

W/44+00 CONTD SOUTH			1-10-58		
Dist	Sound	Elev	Dist	Sound	Elev
(4.7)	13.2	8.5	(4.8)	11.5	6.7
<u>1130</u>	13.0	8.3		7.3	2.5
<u>4+00</u>	13.0	8.3	6+00	5.4	0.6
	13.5	8.8	SOUND NORTH		
	13.6	8.9	0+10	13.1	8.3
	14.2	10.5		13.0	8.2
	15.2	10.5	<u>11137</u>	12.8	8.0
50	15.6	10.9		12.6	7.8
	15.8	11.1	50	12.3	7.5
	15.6	10.9		12.1	7.3
	15.3	10.6		12.1	7.3
	15.1	10.4		11.9	7.1
5+00	15.0	10.3		10.8	6.0
	14.8	10.1	1+00	10.1	5.3
	14.9	10.2	+10	10.0	5.2
	14.7	10.0		8.1	3.3
	14.5	9.8		6.0	1.2
50	14.5	9.8		5.5	0.7
	14.7	10.0	50	5.3	0.5
	13.9	9.2			

W/43+00; 0+00-N/10,944.44			SOUND NORTH		
Dist	Sound	Elev	Dist	Sound	Elev
0+00	14.1	9.2	(4.9)	13.6	8.7
(4.9)	14.1	9.2	2+00	13.6	8.7
<u>1145</u>	14.0	9.1		13.6	8.7
	13.8	8.9		13.7	8.8
	13.7	8.8		13.9	9.0
50	13.7	8.8		14.0	9.1
	13.5	8.6	50	14.0	
	13.4	8.5		14.0	
	13.3	8.4		14.0	9.1
	13.2	8.3		14.1	9.2
1+00	13.1	8.2		14.1	9.2
	13.0	8.1	3+00	14.1	9.2
	13.0	8.1		14.2	9.3
	13.0	8.1		13.8	8.9
	13.1	8.2		12.8	7.9
50	13.2	8.3		12.7	7.8
	13.3	8.4	50	12.9	8.0
	13.3	8.4		13.1	8.2
	13.4	8.5		13.1	8.2

W. 143+00 CONTD SOUTH / -10-58

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.9)	132	8.3	(4.9)	139	9.0
	133	8.4		143	9.4
4+00	133	8.4	6+00	14.8	9.9
	133	8.4		15.1	10.2
	134	8.5		15.1	10.2
	14.0	9.1	<u>1150</u>	15.0	10.1
	14.4	9.5		14.9	10.0
50	14.8	9.9	50	14.9	10.0
	14.9	10.0		15.1	10.2
	15.2	10.3		14.1	9.2
	15.3	10.4		8.9	4.0
	15.4	10.5		6.0	1.1
5+00	15.3	10.4	7+00	5.2	0.3
	14.9	10.0	SOUND NORTH		
	14.6	9.7	0+10	14.0	9.1
	14.3	9.4		14.2	9.3
	14.3	9.4	<u>1155</u>	14.2	9.3
50	14.2	9.3		14.3	9.4
	14.0	9.1	50	14.0	9.1
	13.9	9.0	60	13.9	9.0

W. 142+00; 0+00 = N. 11,000; SOUND SOUTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	14.0	9.1	(4.9)	13.5	8.6
(4.9)	14.0	9.1	2+00	13.6	8.7
<u>1200</u>	14.0	9.1		14.0	9.1
	14.3	9.4		13.5	8.6
	14.9	10.0		12.8	7.9
50	14.9	10.0		12.3	7.4
	15.1	10.2	50	12.2	7.3
	14.3	9.4		12.1	7.2
	13.2	8.3		12.0	7.1
	13.1	8.2		11.8	6.9
1+00	13.1	8.2		11.9	7.0
	13.2	8.3	3+00	12.0	7.1
	13.3	8.4		12.1	7.2
	13.4	8.5		12.1	7.2
	13.4	8.5		12.1	7.2
50	13.3	8.4		12.7	7.8
	13.3	8.4	50	13.2	8.3
	13.3	8.4		13.3	8.4
	13.4	8.5		13.4	8.5

W142+00 CONTD SOUTH 1-10-58

N110+00; 0+00 = W14200; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
(5.0)	135	8.5	(5.0)	14.0	9.0
1205	136	8.6		13.9	8.9
4+00	136	8.6	6+00	13.9	8.9
	13.8	8.8		13.8	8.8
	13.7	8.7		13.9	8.9
	13.3	8.3		14.1	9.1
	14.2	9.2		14.1	
50	14.2	9.2	50	14.1	
	14.8	9.8		14.1	9.1
	14.9	9.9		13.9	8.9
	14.9	9.9		13.7	8.7
	14.7	9.7		13.8	8.8
5+00	14.3	9.3	7+00	13.9	8.9
	14.3	9.3		13.9	8.9
	14.6	9.6		13.8	8.8
	14.3	9.3		13.5	8.5
	14.2	9.2		13.2	8.2
50	14.2		50	12.3	7.3
	14.2			9.8	4.8
	14.2	9.2		5.3	0.3
			7+80	4.7	+0.3

DIST	Sound	Elev	DIST	Sound	Elev
0+10	14.0	8.9	2+00	14.3	9.2
(5.1)	14.1	9.0	(5.1)	14.2	9.1
1212	14.2	9.1		14.1	9.0
	14.3	9.2		14.1	9.0
50	14.4	9.3	50	14.0	8.9
	14.4	9.3	50	14.0	8.9
	14.7	9.6		13.8	8.7
	14.3	9.2		13.7	8.6
	14.0	8.9		13.6	8.5
1+00	13.7	8.6	3+00	13.5	8.4
	13.6	8.5	3+00	13.5	8.4
	13.9	8.8		13.5	8.4
	14.0	8.9		13.6	8.5
	14.0	8.9		13.6	
50	14.0	8.9	50	13.6	
	14.1	9.0	50	13.6	8.5
	14.2	9.1		13.7	8.6
	14.3	9.2		13.8	8.7
	14.4	9.3		13.8	8.7
				13.7	8.6

N110+00 CONTD EAST			1-10-58		
DIST	Sound	Elev	DIST	Sound	Elev
4+00	13.6	8.5	6+00	11.7	6.6
(51)	13.8	8.7	(51)	11.1	6.0
<u>1215</u>	13.4	8.3		11.0	5.9
	13.2	8.1		11.1	6.0
	13.0	7.9		11.2	6.1
50	12.9	7.8	50	11.3	6.2
	12.6	7.5		11.4	6.3
	12.3	7.2		11.9	6.8
	12.1	7.0		11.9	6.8
	12.1	7.0		11.9	6.8
5+00	11.9	6.8	7+00	11.8	6.7
	11.8	6.7		11.9	6.8
	11.8	6.7		12.0	6.9
	11.5	6.4		12.2	7.1
	11.3	6.2		12.2	7.1
50	11.3	6.2	50	12.3	7.2
	11.3	6.2		12.3	7.2
	11.5	6.4		12.7	7.6
	11.8	6.7		12.8	7.7
	11.8	6.7		12.8	7.7

N110+00 EAST			(4)		
DIST	Sound	Elev	DIST	Sound	Elev
8+00	13.0	7.9	10+00	12.3	7.2
(51)	13.1	8.0	(51)	13.1	8.0
	13.7	8.6		14.2	9.1
<u>1220</u>	13.8	8.7		15.2	10.1
	13.8	8.7		15.1	10.0
50	14.1	9.0	50	15.1	10.0
	13.6	8.5		13.8	8.7
	13.7	8.6		13.3	8.2
	13.3	8.2		13.1	8.0
	13.1	8.0		13.0	7.9
9+00	13.2	8.1	11+00	12.8	7.7
	13.2	8.1		12.5	7.4
	13.3	8.2		12.4	7.3
	13.5	8.4		12.5	7.4
	13.1	8.0		12.6	7.5
50	13.1		50	12.6	7.5
	13.1			12.8	7.7
	13.1			13.2	8.1
	13.1	8.0		13.3	8.2
	12.7	7.6		13.3	8.2

N/110+00 CONTD WEST 1-10-58			N/110+00 WEST		
Dist	Sound	Elev	Dist	Sound	Elev
(51)	4.2	+0.9	(51)	3.3	+1.8
50	4.4	+0.7	50	3.2	+1.9
	4.4	+0.7		3.3	+1.8
1240	4.0	+1.1		3.1	+2.0
	3.6	+1.5		3.0	+2.1
	3.9	+1.2		3.2	+1.9
3+00	3.9	+1.2	5+00	3.2	+1.9
	4.0	+1.1		3.1	+2.0
	4.0			3.0	+2.1
	4.0			3.0	
	4.0			3.0	
50	4.0		50	3.0	+2.1
	4.0	+1.1		2.9	+2.2
	3.8	+1.3		2.9	+2.2
	3.7	+1.4		3.0	+2.1
	3.5	+1.6		3.0	+2.1
4+00	3.4	+1.7	6+00	2.9	+2.2
	3.5	+1.6		2.8	+2.3
	3.5	+1.6		2.6	+2.5
	3.6	+1.5		2.5	+2.6

N/110+00 WEST		
Dist	Sound	Elev
(51)	2.3	+2.8
50	2.0	+3.1
	1.3	+3.8
114070	0.5	+4.6

1-10-58
 W/41+00: 0+00 = N/4400: SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.4	+2.1	(44)	2.8	+1.6
(4.5)	2.3	+2.2		2.8	+1.6
<u>1:50</u>	2.1	+2.4		2.9	+1.5
	2.0	+2.5		2.7	+1.7
	1.8	+2.7	50	2.8	+1.6
50	1.4	+3.1		2.8	+1.6
	1.1	+3.4		2.9	+1.5
	0.4	+4.1		2.9	+1.5

(cont'd N. MB 102, Pg. 16)
 SOUND SOUTH

0+10	2.6	+1.9	2+00	3.0	+1.4
	2.7	+1.8		3.0	+1.4
<u>1:55</u>	2.7	+1.8		3.1	+1.3
	2.8	+1.7		3.3	+1.1
50	2.8	+1.7		3.6	+0.8
	3.0	+1.5	50	4.0	+0.4
	3.0	+1.5		4.9	0.5
	2.8	+1.7		5.5	1.1
	2.8	+1.7		7.1	2.7
1+00	2.7	+1.8		8.5	4.1

W/41+00 SOUTH
 Dist Sound Elev

3+00	9.8	5.4
(14)	10.4	6.0
	10.4	6.0
	10.3	5.9
	10.1	5.7
50	9.8	5.4
	8.9	4.5
	7.8	3.4
	6.4	2.0
	5.9	1.5
4+00	5.2	0.8

1-10-58

W140+00; 0+00 = N14400; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.4	+1.8	(42)	2.3	+1.9
(42)	2.3	+1.9	0.0	2.2	+2.0
<u>2:03</u>	2.4	+1.8	50	2.1	+2.1
	2.3	+1.9	52	2.0	+2.2
	2.2	+2.0	53	2.0	
50	2.1	+2.1	54	2.0	
	2.1	+2.1	55	2.0	+2.2
	2.0	+2.2	1+00	1.9	+2.3
	1.8	+2.4	21	1.9	
	1.6	+2.6	80	1.9	
1+00	1.5	+2.7		1.9	
	1.3	+2.9		1.9	+2.3
	1.2	+3.0	50	2.0	+2.2
	1.0	+3.2		2.0	
	0.8	+3.4		2.0	
50	0.2	+4.0		2.0	+2.2
(Cont'd NORTH NISMS, Pg 16)					
SOUND SOUTH				2.1	+2.1
0+10	2.4	+1.8	2+00	2.3	+1.9
<u>2:10</u>	2.3	+1.9		2.3	+1.9

W140+00. SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(42)	2.4	+1.8	(42)	6.8	2.6
	2.6	+1.6		5.6	1.4
	2.7	+1.5		5.0	0.8
50	2.8	+1.4	50	4.7	0.5
	3.1	+1.1	105	4.8	0.6
	3.3	+0.9		4.9	0.7
	3.8	+0.4		4.8	0.6
	4.2	0.0		4.7	0.3
3+00	5.1	0.9	5+00	4.6	0.4
	6.1	1.9		4.6	
	7.3	3.1		4.6	
	8.2	4.0		4.6	0.4
	9.0	4.8		4.5	0.3
50	9.3	5.1	50	4.6	0.4
	9.4	5.2	22	4.5	0.3
	9.5	5.3	82	4.4	0.2
	9.4	5.2	28	4.3	0.1
	9.2	5.0		4.2	0.0
4+00	8.8	4.6	6+00	4.1	+0.1
	7.8	3.6		4.0	+0.2

W140+00 CONTD SOUTH 1-16-58

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(41)	3.9	+0.2	(41)	16.7	12.6
	3.8	+0.3		17.0	12.9
	3.7	+0.4		17.3	13.0
50	3.6	+0.5	50	17.6	13.5
	3.5	+0.6		17.3	13.2
	3.5	+		16.9	12.8
	3.5	+		16.0	11.9
	3.5	+0.6		15.4	11.3
7+00	3.6	+0.5	9+00	13.8	9.7
	3.6	+0.5		11.0	6.9
	3.8	+0.3		5.2	1.1
	4.4	0.3		5.0	0.9
<u>2:15</u>	5.2	1.1		4.3	0.2
50	6.2	2.1	50	3.1	+1.0
	7.6	3.5			
	12.1	8.0			
	12.1	8.0			
	13.7	9.6			
8+00	16.2	12.1			
	16.1	12.0			

(46)

W139+00; 0+00=N14400; SOUND NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	1.8	+2.2	(40)	1.0	+3.0
(40)	1.9	+2.1	2+00	0.8	+3.2
<u>2:25</u>	1.8	+2.2	(Cont. N. MB 102 P. 16)		
	1.8	+2.2			
	1.8	+2.2			
50	1.9	+2.1			
	1.9	+2.1	50		
	1.9	+2.1	SOUND SOUTH		
	1.8	+2.2	0+10	1.9	1.9
	1.8		(38)	1.8	2.0
1+00	1.8		<u>2:33</u>	1.8	2.0
	1.8	+2.2		1.8	2.0
	1.7	+2.3	50	1.6	2.2
	1.6	+2.4		1.5	2.3
	1.6	+2.4		1.5	2.3
50	1.6	+2.4		1.4	2.4
	1.4	+2.6		1.4	2.4
	1.3	+2.7	1+00	1.4	2.4
	1.2	+2.8		1.3	2.5

W.139+00; CONTD SOUTH 1-10-58

Dist	Sound	Elev	Dist	Sound	Elev
(38)	1.2	+2.6	(3.8)	2.8	+1.0
	1.3	+2.5	<u>2.35</u>	3.1	+0.7
	1.2	+2.6		3.8	0.0
50	1.3	+2.5	50	3.9	0.1
	1.2	+2.6		4.0	0.2
	1.0	+2.8		4.9	1.1
	1.1	+2.7		6.1	2.3
	1.1	+2.7		7.0	3.2
2+00	1.0	+2.8	4+00	7.7	3.9
	1.2	+2.6		8.0	4.2
	1.3	+2.5		8.4	4.6
	1.5	+2.3		8.5	4.7
	1.5	+2.3		8.5	
50	1.8	+2.0	50	8.5	
	1.8	+2.0		8.5	4.7
	2.0	+1.8		8.1	4.3
	2.9	+0.9		7.3	3.5
	2.9	+0.9		6.7	2.9
3+00	2.7	+1.1	5+00	6.2	2.4
	2.7	+1.1		5.0	1.2

W.139+00 SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(38)	4.9	1.1	(3.7)	16.0	12.3
	4.7	0.9	<u>2.40</u>	16.0	12.3
	4.3	0.5		16.0	12.3
50	4.5	0.7	50	16.4	12.7
	4.3	0.5		16.3	12.6
	4.3	0.5		16.6	12.9
	4.4	0.6		16.1	12.4
	4.4	0.6		16.2	12.5
6+00	4.4	0.6	8+00	16.3	12.6
	4.7	0.9		16.0	12.3
	4.9	1.1		15.9	12.2
	5.8	2.0		15.7	12.0
	7.1	3.3		15.9	12.2
50	8.5	4.7	50	15.8	12.1
	8.7	4.9		15.6	11.9
	9.2	5.4		15.3	11.6
	10.3	6.5		15.4	11.7
	12.4	8.6		15.1	11.4
7+00	15.1	11.3	9+00	15.3	11.6
	15.8	12.0		15.3	11.6

(47)

W139+00 CONTD SOUTH 1-10-58

Dist Sound Elev

3.6 15.3 11.7

15.3 11.7

15.3 11.7

50 15.7 12.1

15.2 11.6

12.1 8.5

9.2 5.6

2.44 8.0 4.4

10+00 4.4 0.8

Contd E. Pg. 53.

(Contd N.NB 102 P 930) 1-16-58

W. 99+00; 0+00 = N 75, 200 SOUND SOUTH

(48)

Dist Sound Elev Dist Sound Elev

0+00 1.8 +3.3 (51) 4.3 +0.8

(51) 1.8 +3.3 2+00 5.2 0.1

9:00 2.0 +3.1 5.2 0.1

2.0 5.0 +0.1

2.0 5.0

50 2.0 5.0

2.0 50 5.0 +0.1

2.0 4.9 +0.2

2.0 4.9

2.0 4.9

1+00 2.0 +3.1 4.9 +0.2

2.0 +3.1 3+00 4.6 +0.5

1.9 +3.2 3.4 +1.7

1.9 3.8 +1.3

1.9 +3.2 3.8 +1.3

50 2.0 +3.1 3.9 +1.2

2.1 +3.0 50 3.9 +1.2

2.3 +2.8 4.0 +1.1

3.0 +2.1 4.8 +0.3

W 99+00 CONTD SOUTH 1-16-57
 DIST SOUND ELEV DIST SOUND ELEV

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(51)	4.5	+0.6	(50)	12.7	7.1
	4.5	+0.6		12.3	7.3
4+00	4.7	+0.4	6+00	10.3	5.3
	4.7	+0.4		8.8	3.9
	4.7	+0.4		8.0	3.0
	4.7	+0.4		7.4	2.9
	5.2	0.1	9:05	7.0	2.0
50	6.1	1.0	<u>50</u>	7.1	2.1
	7.0	1.9			
	7.0	1.9			
	7.3	2.2			
	9.5	4.4			
5+00	10.5	5.4			
	11.1	6.0			
	11.3	6.2			
	11.8	6.7			
	12.0	6.9			
50	11.8	6.7			
	11.8	6.7			
	12.7	7.6			

Capitol N. M. B. 102, P. 30 (49)
 W 100+00: 0+00 = N 15200: SOUND SOUTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	1.7	+3.2	(4.9)	3.0	+1.9
(4.9)	2.0	+2.9	2+00	3.0	~
9:10	1.7	+3.2		3.0	+1.9
<u>1.6</u>	+3.3			2.9	+2.0
	3.4	+1.5		3.2	+1.7
50	4.4	+0.5		3.3	+1.6
	4.4	+0.5	50	3.3	+1.6
	4.3	+0.6		2.8	+2.1
	4.7	+0.2		2.5	+2.4
	4.1	+0.8		2.5	+2.4
1+00	4.0	+0.9		2.4	+2.5
	4.1	+0.8	3+00	2.5	+2.4
	3.9	+1.0		2.6	+2.3
	4.0	+0.9		2.7	+2.2
	4.0	+0.9		2.8	+2.1
50	3.7	+1.2		2.9	+2.0
	3.0	+1.9	50	2.9	+2.0
	3.0	~		3.0	+1.9
	3.0	+1.9		2.9	+2.0

W. 100+00 CONT'D SOUTH 1-16-58
 Dist Sound Elev Dist Sound Elev

(Cont'd N. MB 102, P 930)
 W. 100+00; 0+00 = N 15200; SOUND SOUTH ⁽⁵⁰⁾
 Dist Sound Elev Dist Sound Elev

(49)	2.9	+2.0	(48)	11.8	7.0
	2.9	+2.0	<u>9:15</u>	11.7	6.9
4+00	3.1	+1.8	6+00	11.2	6.4
	3.2	+1.7		12.2	7.4
	3.2	+1.7		11.6	6.8
	4.1	+0.8		9.8	5.0
	4.9	0.0		8.3	3.5
50	5.3	0.4	50	7.1	2.3
	6.2	1.3			
	7.3	2.4			
	7.4	2.5			
	7.9	3.0			
5+00	8.8	3.9			
	9.8	4.9			
	10.2	5.3			
	10.5	5.6			
	11.0	6.1			
50	11.3	6.4			
	11.3	6.4			
	11.7	6.8			

0+00	3.3	+1.4	(47)	2.0	+2.7
(47)	3.5	+1.2	2+00	2.0	}
<u>9:21</u>	2.4	+2.3		2.0	+2.7
	2.4	+2.3		2.3	+2.4
	2.2	+2.5		2.1	+2.6
50	2.3	+2.4		2.1	}
	2.2	+2.5	50	2.1	+2.6
	2.1	+2.6		2.2	+2.5
	2.1	+2.6		2.1	+2.6
	2.0	+2.7		2.0	+2.7
1+00	2.0			2.0	+2.7
	2.0		3+00	2.8	+1.9
	2.0			2.9	+1.8
	2.0			2.9	+1.8
	2.0			2.7	+2.0
50	2.0			2.4	+2.3
	2.0	+2.7	50	2.1	+2.6
	2.4	+2.3		2.0	+2.7
	2.0	+2.7		2.0	+2.7

W/10/100 CONTD SOUTH			W/10/100 SOUND NORTH		
Dist	Sound	Elev	Dist	Sound	Elev
(46)	2.3	+2.3	(46)	11.4	6.8
9:25	3.1	+1.5		11.8	7.2
<u>4:00</u>	3.9	+0.7	6:00	11.9	7.3
	5.1	0.5		12.1	7.5
	6.8	2.2		12.1	7.5
	7.3	2.7		11.7	7.1
	7.8	3.2		11.0	6.4
50	8.0	3.4	50	9.9	5.3
	8.3	3.7		8.8	4.2
	8.9	4.3		7.4	2.8
	8.7	4.1	9:28	6.8	2.2
	8.4	3.8	<u> </u>	6.1	1.5
5:00	8.4	3.8	7:00	5.9	1.3
	8.6	4.0	SOUND NORTH		
	9.0	4.4	0:10	3.5	+1.0
	9.2	4.6	(45)	3.6	+0.9
	9.6	5.0	9:32	3.8	+0.7
50	9.9	5.3	<u> </u>	3.6	+0.9
	10.3	5.7	50	3.5	+1.0
	10.7	6.1		3.4	+1.1

1-16-58
W/10/100 SOUND NORTH

Dist Sound Elev
(45) 2.6 +1.9
1.5 +3.0
0.5 +4.0

1:00

(51)

1-16-58

W102+00: 0+00 = N15200: SOUND SOUTH

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
	0+00	1.4	+2.9	(42)	0.7	+3.5
(43)	1.4	+2.9		2+00	0.8	+3.4
<u>9.37</u>	1.2	+3.1			0.8	
	1.2	+3.1			0.8	
	1.3	+3.0			0.8	
50	1.3	+3.0			0.8	+3.4
	1.1	+3.2		50	1.0	+3.2
	0.9	+3.4			0.9	+3.3
	0.9				1.0	+3.2
	0.9				1.0	
1+00	0.9			<u>9.43</u>	1.0	+3.2
	0.9	+3.4		<u>3+00</u>	1.0	+3.2
	1.0	+3.3			0.9	+3.3
	1.1	+3.2			1.1	+3.1
	1.0	+3.3			2.1	+2.1
50	0.9	+3.4			1.2	+3.0
	0.9	+3.4		50	2.5	+1.7
	0.8	+3.5			1.7	+2.5
	0.7	+3.6			1.7	+2.5

W. 102+00 SOUTH (52)

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
(42)	1.2	+3.0		(41)	9.7	5.6
	1.3	+2.9		<u>9.45</u>	10.4	6.3
4+00	1.4	+2.8		6+00	11.2	7.1
	1.8	+2.4			11.5	7.4
	2.7	+1.5			12.1	8.0
	3.7	+0.5			11.4	7.3
	4.9	0.7			11.2	7.1
50	7.0	2.8		50	10.8	6.7
	7.6	3.4			10.2	6.1
	7.8	3.6			9.8	5.7
	8.0	3.8			9.3	5.2
	8.2	4.0			7.5	3.4
5+00	8.4	4.2		7+00	6.5	2.4
	8.8	4.6			5.2	1.1
	9.0	4.8		SOUND NORTH		
	9.2	5.0		0+10	1.0	+2.8
	9.4	5.2		(3.8)	1.0	+2.8
50	10.1	5.8		<u>9.55</u>	1.1	+2.7
	10.2	6.0			1.3	+2.5
	9.6	5.4		50	1.3	+2.5

W102+00 SOUND NORTH 1-16-58

Dist	Sound	Elev
(38)	1.2	+2.6
	1.9	+1.9
	2.0	+1.8
	1.6	+2.2
1+00	1.6	+2.2
	2.3	+1.5
	2.9	+0.9
	2.8	+1.0
	2.8	S
50	2.8	+1.0
	3.0	+0.8
	2.4	+1.4
	2.4	}
	2.4	}
2+00	2.4	}
9.55	2.4	+1.4
	1.7	+2.1
	1.6	+2.2
	0.8	+3.0

50 (Cont'd MB102, Pg 29)

1-17-58 (53)
W138+00; 0+00 = N14400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.0	+2.4	(54)	2.8	+2.6
(54)	3.0	+2.4	2+00	2.8	
9.30	3.0	+2.4		2.8	
	3.1	+2.3		2.8	
	3.0	+2.4		2.8	
50	3.2	+2.2		2.8	+2.6
	2.9	+2.5	50	3.0	+2.4
	2.9	+2.5		3.0	+2.4
	2.9	+2.5		3.1	+2.3
	2.8	+2.6		3.1	+2.3
1+00	2.8			3.0	+2.4
	2.8		3+00	3.0	+2.4
	2.8			3.1	+2.3
	2.8			3.1	+2.3
	2.8			3.5	+1.9
50	2.8			3.9	+1.5
	2.8		50	3.7	+1.7
	2.8			4.0	+1.4
	2.8	+2.6		4.0	+1.4

W138+00 CONTD SOUTH 1-17-58

DIST	Sound	Elev	DIST	Sound	Elev
(54)	4.2	+1.2	(53)	6.6	1.3
	4.7	+0.7	<u>945</u>	7.2	1.9
4+00	5.0	+0.4	6+00	8.8	3.5
	5.3	+0.1		11.1	5.8
	5.6	0.2		13.5	8.2
	6.0	0.6		14.1	8.8
	6.3	0.9		14.8	9.5
50	7.0	1.4	50	14.8	9.5
	7.7	2.3		14.8	9.5
	8.4	3.0		14.9	9.6
	9.1	3.7		15.0	9.7
	9.8	4.4		15.0	9.7
5+00	9.9	4.5	7+00	15.2	9.9
	10.1	4.7		15.4	10.1
	10.0	4.6		15.8	10.5
	9.6	4.2		16.0	10.8
	9.0	3.6		16.3	11.0
50	8.4	3.0	50	16.1	10.8
	7.6	2.2		16.6	11.3
	7.0	1.6		16.7	11.4

W138+00 SOUTH (54)

DIST	Sound	Elev	DIST	Sound	Elev
(53)	16.4	11.1	(52)	17.2	12.0
	16.3	11.0		17.4	12.2
8+00	16.3	11.0	10+00	17.2	12.0
	16.0	10.7		17.0	11.8
	16.0	}	<u>956</u>	16.2	11.0
	16.0			15.8	10.6
	16.0			15.4	10.2
50	16.0	10.7	50	15.2	10.0
	16.2	10.9		14.5	9.3
	16.2	10.9		14.1	8.9
	16.0	10.7		14.0	8.8
	16.0	10.7		14.1	8.9
9+00	16.0	10.7	11+00	14.1	8.9
	15.9	10.6		14.3	9.1
	15.9	}		14.7	9.5
	15.9			14.9	9.7
	15.9	10.6		14.9	9.7
50	15.8	10.5	50	14.7	9.5
	15.9	10.6		11.1	5.9
	16.5	11.2		9.5	4.3

W.138+00 CONTD SOUTH 1-17-58

Dist Sound Elev Dist Sound Elev

(52)	7.0	1.8	(50)	2.6	+2.4
	6.0	0.8		2.5	+2.5
12+00	5.2	0.0		2.6	+2.4
SOUND NORTH			2+00	2.4	+2.6
0+10	2.7	+2.4		2.3	+2.7
(51)	2.8	+2.3		2.2	+2.8
<u>9.56</u>	2.8	~		2.2	+2.8
	2.8	+2.3		2.3	+2.7
50	2.7	+2.4	50	2.3	~
	2.7			2.3	+2.7
	2.7			2.4	+2.6
	2.7		<u>10.00</u>	2.3	+2.7
	2.7	+2.4		2.2	+2.8
1+00	2.8	+2.3	3+00	2.0	+3.0
	2.8	+2.3		1.9	+3.1
	2.7			1.4	+3.6
	2.7			0.8	+4.2
	2.7	+2.4	(Contd. N. NB. 102 P. 17)		
50	2.6	+2.5	50		
	2.6	+2.5			

(55)

W.137+00; 0+00 = N/14400; SOUND SOUTH

Dist Sound Elev Dist Sound Elev

0+00	2.4	+2.4	(48)	2.5	+2.3
	2.4	+2.4	2+00	2.5	~
<u>1005</u>	2.3	+2.5		2.5	+2.3
	2.3	+2.5		2.6	+2.2
	2.3	~		2.7	+2.1
50	2.3	+2.5		2.6	+2.2
	2.2	+2.6	50	2.5	+2.3
	2.2	+2.6		2.6	+2.2
	2.3	+2.5		2.7	+2.1
	2.3			2.8	+2.0
1+00	2.3			2.8	~
	2.3		3+00	2.8	+2.0
	2.3			3.1	+1.7
	2.3			3.1	+1.7
	2.3			2.9	+1.9
50	2.3	+2.5		3.0	+1.8
	2.7	+2.1	50	2.9	+1.9
	2.4	+2.4		2.8	+2.0
	2.5	+2.3		2.7	+2.1

W. 137+00; CONTD SOUTH					
Dist	Sound	Elev	Dist	Sound	Elev
(47)	2.8	+1.9	(47)	9.2	4.5
	3.1	+1.6		9.0	4.3
4+00	3.2	+1.5	6+00	8.4	3.9
	3.2	+1.5		7.9	3.2
10/10	3.1	+1.6		7.3	2.6
<u> </u>	3.2	+1.5		7.7	3.0
	3.5	+1.2		7.8	3.1
50	3.6	+1.1	50	8.8	4.1
	3.9	+0.8		11.1	6.9
	4.0	+0.7		13.2	8.5
	4.3	+0.4		13.9	9.2
	5.0	0.3		14.1	9.4
5+00	5.5	0.8	7+00	14.4	9.9
	6.4	+1.7		14.5	9.8
	7.2	2.5		14.6	9.9
	7.8	3.1		14.7	10.0
	8.7	4.0		14.7	10.0
50	9.2	4.5	50	14.9	10.2
	9.3	4.6		15.0	10.3
	9.2	4.5		15.2	10.6

W. 137+00 SOUTH 1-17-58 (50)					
Dist	Sound	Elev	Dist	Sound	Elev
(46)	15.4	10.8	(46)	15.0	10.4
	16.1	11.5		15.1	10.5
8+00	16.1	11.5	10+00	15.2	10.6
	16.0	11.4		15.2	
	16.0	11.4		15.2	
	15.9	11.3		15.2	10.6
	15.7	11.1		15.3	10.7
50	15.1	10.5	50	15.6	11.0
	14.7	10.1		16.0	11.4
<u>10/15</u>	14.7	10.1		16.0	11.4
	14.6	10.0		16.1	11.5
	14.5	9.9		16.2	11.6
9+00	14.7	10.1	11+00	16.6	12.0
	14.7	~		16.7	12.1
	14.7	10.1		16.7	12.1
	14.8	10.2		16.4	11.8
	15.0	10.4		15.9	11.3
50	15.1	10.5	50	15.1	10.5
	14.8	10.2		15.3	10.7
	15.0	10.4		15.5	10.9

W. 137+00 CONT'D SOUTH 1-18-58

Dist	Sound	Elev	Dist	Sound	Elev
(43)	15.4	10.9	(43)	13.1	8.6
	14.4	9.9		12.9	8.4
12+00	11.5	7.0	14+00	12.9	~
	10.9	6.4		12.0	8.4
	11.2	6.7		13.2	8.7
	12.2	7.7		13.3	8.8
	13.0	8.5		13.3	8.8
50	13.5	9.0	50	13.4	8.9
	13.8	9.3		13.4	8.9
	14.0	9.5		13.4	8.9
	14.0	9.5		13.3	8.8
	14.1	9.6		13.2	8.7
13+00	13.7	9.2	15+00	13.1	8.6
	13.2	8.7		13.1	8.6
	12.8	8.3		13.2	8.7
	12.5	8.0		13.3	8.8
	12.4	7.9		13.4	8.9
50	12.5	8.0	50	13.3	8.8
	12.8	8.3		13.2	8.7
	12.9	8.4		13.1	8.6

W. 137+00 CONT'D SOUTH (51)

Dist	Sound	Elev	Dist	Sound	Elev
(44)	13.3	8.9	(44)	11.9	7.5
	13.3	8.9		11.9	7.5
16+00	13.4	9.0	18+00	12.0	7.6
	13.2	8.8		12.0	
10+00	13.2	~		12.0	
~	13.2	~		12.0	
	13.2	~		12.0	
50	13.2	8.8	50	12.0	7.6
	13.0	8.6		12.2	7.8
	12.9	8.5		12.3	7.9
	12.9	8.5		12.4	8.0
	12.9	8.5		12.3	7.9
17+00	12.8	8.4	19+00	12.6	8.2
	12.8	~		12.8	8.4
	12.8	~		12.8	8.4
	12.8	~		13.0	8.6
	12.8	8.4		13.0	8.6
	12.4	8.0	50	13.2	8.8
	12.4	8.0		13.2	8.8
	12.4	8.0		13.8	9.4
50	12.2	7.8	50	13.8	9.4
	12.0	7.6		13.3	8.9
	12.0	7.6	20+00	13.6	9.2

W137+00; SOUND NORTH 1-17-58

DIST	Sound	Elev	DIST	Sound	Elev
0+10	1.8	+2.4	(4.2)	1.7	+2.5
(4.2)	1.8	+2.4		1.8	+2.4
<u>10:30</u>	1.7	+2.5		1.8	
	1.8	+2.4		1.8	
50	1.8	-	50	1.8	+2.4
	1.8	+2.4		1.7	+2.5
	1.9	+2.3		1.6	+2.6
	1.8	+2.4		1.6	+2.6
	1.8			1.7	+2.5
1+00	1.8		3+00	1.8	+2.4
	1.8	+2.4		1.7	+2.5
	1.7	+2.5		1.4	+2.8
	1.8	+2.4		1.4	
	1.9	+2.3		1.4	
50	1.9	+2.3	50	1.4	+2.8
	1.8	+2.4		1.3	+2.9
	1.8	-		1.4	+2.8
	1.8	+2.4		1.4	+2.8
	1.8	+2.4		1.3	+2.9
	1.7	+2.5	4+00	1.4	+2.8
2+00	1.7	+2.5			

(Cont'd N. NB 102 P. 17)

W136+00; 0+00=N14400; SOUND SOUTH

DIST	Sound	Elev	DIST	Sound	Elev
0+00	1.7	+1.1	(38)	2.0	+1.8
	1.7	+1.1	2+00	2.0	
<u>10:45</u>	1.8	+1.0		2.0	
	1.8			2.0	+1.8
	1.8			2.3	+1.5
50	1.8	+1.0		2.0	+1.8
	1.9	+0.9	50	2.1	+1.7
	1.9			2.1	-
	1.9			2.1	+1.7
	1.9	+0.9		2.0	+1.8
1+00	2.0	+1.8		2.1	+1.7
	2.0		3+00	2.1	-
	2.0			2.1	+1.7
	2.0			2.9	+0.9
	2.0			3.1	+0.7
50	2.0			3.7	+0.1
	2.0		50	4.2	0.4
	2.0			5.0	1.2
	2.0	+1.8		5.8	2.0

LAH
N14800
+2.8

W136+00 CONTD SOUTH 1-17-58

Dist	Sound	Elev	Dist	Sound	Elev
(37)	8.1	4.4	(37)	10.8	7.1
	10.1	6.3		12.5	8.8
4+00	11.4	7.7	6+00	14.3	10.6
	12.7	9.0		15.8	12.1
	13.6	9.6		16.3	12.6
10:50	13.7	10.0		17.1	13.4
	14.0	10.3		17.3	13.6
50	14.1	10.4	50	17.1	13.4
	14.3	10.6		16.2	12.5
	14.1	10.4		15.9	12.2
	13.5	9.8		15.4	11.7
	13.1	9.4		15.7	12.0
5+00	11.3	7.6	7+00	15.3	11.6
	7.9	4.2	SOUND NORTH		
	7.0	3.3	0+10	1.3	+2.3
	6.3	2.6	(36)	1.3	+2.3
	5.6	1.9	1055	1.4	+2.2
50	6.0	2.3		1.5	+2.1
	7.1	3.4	50	1.5	+2.1
	9.0	5.3		1.5	+2.1

W136+00; SOUND NORTH (59)

Dist	Sound	Elev	Dist	Sound	Elev
(35)	1.4	+2.2	(35)	1.0	+2.5
	1.3	+2.3		1.0	~
	1.3	?	11:00	1.0	+2.5
1+00	1.3	?	3+00	1.0	+2.5
	1.3	+2.3			+2.5
	1.4	+2.2	(Contd N.M.B. 102 P. 17)		
	1.2	+2.4			
	1.3	+2.3			
50	1.2	+2.4			
	1.2	?			
	1.2	?			
	1.2	+2.4			
	1.1	+2.5			
	1.1	+2.5	2+00	1.1	+2.5
	1.0	+2.6			
	1.0	+2.6			
	1.2	+2.4			
	1.0	+2.6			
50	1.0	+2.6			
	1.0	+2.6			

1-17-58

W135+00; 0+00 = N14400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.3	+1.9	(32)	1.6	+1.6
(32)	1.2	+2.0	2+00	1.7	+1.5
<u>1010</u>	1.2			1.8	+1.4
	1.2	+2.0		1.9	+1.3
	1.3	+1.9		1.9	
50	1.3	+1.9		1.9	
	1.4	+1.8	50	1.9	+1.3
	1.4	+1.8		2.0	+1.2
	1.3	+1.9	<u>1017</u>	2.0	+1.0
	1.3	+1.9	(30)	2.8	+0.2
1+00	1.4	+1.8		3.5	0.5
	1.4	+1.8	3+00	5.7	2.7
	1.5	+1.7		10.4	7.4
	1.5			13.4	10.4
	1.5			14.0	11.0
50	1.5	+1.7		13.8	10.8
	1.6	+1.6	50	13.7	10.7
	1.5	+1.7		13.7	10.7
	1.6	+1.6		13.7	10.7

W135+00 SOUTH 1-20-58 (60)

Dist	Sound	Elev	Dist	Sound	Elev
(30)	13.4	10.4	(69)	5.0	+1.9
	13.4	10.4		5.0	
4+00	13.2	10.2		5.0	
	13.2	10.2	1+00	5.0	+1.9
	13.2	10.2		4.9	+2.0
	13.1	10.1		4.9	
	13.1			4.9	
50	13.1			4.9	
	13.1		50	4.9	+2.0
	13.1			4.8	+2.1
	13.1			4.8	+2.1
	13.1			4.7	+2.2
5+00	13.1	10.1		4.7	+2.2
	SOUND NORTH		2+00	4.4	+2.5
0+00	5.0	+1.9		4.5	+2.4
(69)	5.1	+1.8		4.5	+2.4
<u>923</u>	5.1	+1.8		4.5	+2.4
	5.0	+1.9		4.4	+2.5
50	5.0	+1.9	50	4.4	+2.5
	5.0	+1.9		4.5	+2.4

W.135+00 CONTD NORTH 1-20-58

DIST	Sound	Elev	DIST	Sound	Elev
(69)	4.3	+2.6	(69)	3.0	+3.9
925	4.3	+2.6		3.0	+3.9
<u> </u>	4.2	+2.7		3.0	+3.9
3+00	4.1	+2.8	5+00	2.8	+4.1
	4.2	+2.7		2.6	+4.3
	4.2	+2.7		2.5	+4.4
	4.1	+2.8		2.5	+4.4
	4.1	+2.8		2.5	+4.4
50	4.0	+2.9	50	2.3	+4.6
	4.0	+2.9		2.1	+4.8
	3.9	+3.0		2.1	+4.8
1+00	3.9	+3.0		2.2	+4.7
	3.8	+3.1	3+00	2.0	+4.9
4+00	3.8	+3.1	6+00	2.0	+4.9
	3.6	+3.3		2.0	+4.9
	3.3	+3.6		2.1	+4.8
	3.3	+3.6		1.9	+5.0
50	3.3	+3.6	50	2.0	+4.9
	3.2	+3.7		2.0	+4.9
50	3.1	+3.8	LatH N15/50 7+00	2.0	+4.9
	3.1	+3.8		2.2	+4.7

(67)

W.134+00; 0+00=N14.400; SOUND SOUTH

DIST	Sound	Elev	DIST	Sound	Elev
0+00	5.1	+1.7	(68)	5.7	+1.1
(68)	5.1		2+00	5.8	+1.0
938	5.1		940	5.7	+1.1
<u> </u>	5.1	+1.7	<u> </u>	5.6	+1.2
	5.8	+1.6		5.6	+1.2
50	5.2	+1.6		5.6	+1.2
	5.1	+1.7	50	6.0	+0.8
	5.1	+1.7		7.0	0.2
	5.1	+1.7		7.4	0.6
	5.2	+1.6		10.1	3.3
1+00	5.9	+0.9		14.7	7.9
	5.3	+1.5	3+00	17.2	10.4
	5.2	+1.6		17.3	10.5
	5.4	+1.4		17.5	10.7
	5.4			17.4	10.6
50	5.4			17.3	10.5
	5.4		50	17.2	10.4
	5.4	+1.4		17.1	10.3
	6.0	+0.8		17.6	10.8

W134+00 CONTD 1-20-58

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(68)	17.9	11.1	(68)	4.9	+1.9
<u>9.42</u>	17.2	10.4		4.8	+2.0
4+00	16.9	10.1		4.7	+2.1
	16.9	10.1	1+00	4.7	+2.1
	16.8	10.0		4.6	+2.2
	16.8	10.0		4.5	+2.3
	16.7	9.9		4.4	+2.4
50	16.7	}		4.3	+2.5
	16.7		50	4.4	+2.4
	16.7	9.9		4.3	+2.5
	16.8	10.0		4.3	+2.5
	16.7	9.9		4.3	+2.5
5+00	16.6	9.8		4.2	+2.6
SOUND NORTH			2+00	4.1	+2.7
0+10	5.1	+1.7		4.1	+2.7
	5.1	}		4.0	+2.8
<u>9.45</u>	5.1			4.0	+2.8
	5.1	+1.7		4.0	+2.8
50	5.0	+1.8	50	4.1	+2.7
	5.0	+1.8		4.0	+2.8

W134+00; SOUND NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(68)	4.1	+2.7			
	4.0	+2.8			
	3.9	+2.9			
3+00	3.9	+2.9	5+00		
	3.8	+3.0			
	3.7	+3.1			
	3.4	+3.4			
	3.0	+3.8			
50	3.1	+3.7	50		
	3.0	+3.0			
	3.0	+3.8			
	3.0	+3.8			
	2.8	+4.0			
4+00	2.5	+4.3	6+00		
	2.5	+4.3			
	2.1	+4.7			
	2.0	+4.8			
Loth	1.9	+4.9			
114850	2.0	+4.8			
50	2.0	+4.8			

(Contd N NB 10 2 Pg. 20)

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W/133+00; 0+00 = N/4,400; SOUND NORTH

W/133+00 CONTD SOUTH

(63)

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
			(66)	17.0	10.4	(66)	4.5	+2.1			
0+00	5.0	+1.7	(67)	5.5	+1.2	9.58	17.0	~		4.5	+2.1
(67)	5.0	~	2+00	5.8	+0.9	4+00	17.0	10.4		4.4	+2.2
9.55	5.0	+1.7		5.8	+0.9		16.8	10.2	1+00	4.4	+2.2
~	5.1	+1.6		5.6	+1.1		17.2	10.6		4.3	+2.3
	5.1			6.0	+0.7		17.0	10.4		4.3	~
50	5.1			6.9	0.2		17.1	10.5		4.3	+2.3
	5.1		50	7.6	0.9	50	17.2	10.6		4.2	+2.4
	5.1	+1.6		10.4	3.7		17.2	10.6	50	4.1	+2.5
	5.2	+1.5		14.8	8.1		17.4	10.8		4.1	~
	5.1	+1.6		16.7	10.0		17.4	10.8		4.1	+2.5
1+00	5.2	+1.5		17.0	10.3		18.0	11.4		4.0	+2.6
	5.2	+1.5	3+00	17.6	10.9	5+00	17.5	10.9		4.0	+2.6
	5.3	+1.4		17.4	10.7	SOUND NORTH	2+00	3.9		3.9	+2.7
	5.3	~		17.2	10.5	0+10	4.7	+1.9		3.9	+2.7
	5.3	+1.4		17.2	10.5		4.8	+1.8		4.0	+2.6
50	5.4	+1.3		17.2	10.5	10+02	4.8	+1.8		3.8	+2.8
	5.5	+1.2	50	17.1	10.4	~	4.7	+1.9		3.9	+2.7
	5.5	~		17.1	10.4	50	4.7	+1.9	50	3.7	+2.9
	5.5	+1.2		17.2	10.5		4.6	+2.0		3.6	+3.0

W133+00; SOUND NORTH
Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
(63)	3.5	+3.0			
	3.2	+3.3			
	3.2	+3.3			
3+00	3.1	+3.4	5+00		
	2.9	+3.6			
	2.7	+3.8			
	2.6	+3.9			
	2.5	+4.0			
50	2.3	+4.2			
	2.0	+4.5			
	1.9	+4.6			
<u>10:05</u>	2.0	+4.5			
Lott	2.0	~			
N14800					
4+00	2.0	+4.5			
(Contd NMB102, P920)					
50					

1-20-58 (64)

W132+00; 0+00=N14400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.8	+1.7	(65)	5.7	+0.8
(65)	4.8		2+00	6.2	+0.3
<u>10:10</u>	4.8			6.9	0.4
	4.8	+1.7		7.7	1.2
	5.0	+1.5		10.0	3.5
50	5.1	+1.4		11.9	5.4
	5.2	+1.3	50	13.7	7.2
	5.2	+1.3		17.2	10.7
	5.2			18.0	11.5
	5.2			18.2	11.7
1+00	5.2			18.3	11.8
	5.2		3+00	18.0	11.5
	5.2			17.8	11.3
	5.2	+1.3		17.7	11.2
	5.3	+1.2		17.7	11.2
50	5.4	+1.1		17.4	10.9
	5.4		50	17.3	10.8
	5.4	+1.1		17.3	10.8
	5.5	+1.0		17.2	10.7

W132+00 CONTD SOUTH 1-20-58

Dist Sound Elev Dist Sound Elev

(64) 17.6 11.2 (64) 4.3 +2.1

10:15 17.7 11.3 4.3 +2.1

4+00 17.7 11.3 4.2 +2.2

17.8 11.4 1+00 4.1 +2.3

17.8 11.4 4.0 +2.4

18.2 11.8 4.0 ~

17.9 11.5 4.0 +2.4

50 18.1 11.7 3.9 +2.5

18.0 11.6 50 3.8 +2.6

17.8 11.4 3.4 +3.0

17.2 10.8 3.8 +2.6

16.7 10.3 3.7 +2.7

5+00 16.9 10.5 3.5 +2.9

SOUND NORTH 2+00 3.3 +3.1

0+10 4.5 +1.9 3.3 +3.1

4.4 +2.0 3.4 +3.0

10:18 4.3 +2.1 3.2 +3.2

4.3 +2.1 3.1 +3.3

50 4.3 +2.1 50 3.0 +3.4

4.2 +2.2 2.7 +3.7

W132+00; SOUND NORTH (65)

Dist Sound Elev Dist Sound Elev

(63) 2.3 +4.0

10:20 2.1 +4.2

2.1 -

3+00 2.1 +4.2

2.0 +4.3

2.1 +4.2

2.0 +4.3

with 1.8 +4.5

W14+50 50 1.7 +4.6

(cont'd N. MB 102 P. 21)

1-20-58						W131+00 CONTD SOUTH					(66)
W.131+00: 0+00 = N14.400: SOUND SOUTH			Dist Sound Elev			Dist Sound Elev			Dist Sound Elev		
Dist	Sound	Elev	Dist	Sound	Elev	(61)	16.0	9.9	(61)	3.9	+2.2
0+00	4.4	+1.9	(62)	17.3	11.1		16.1	10.0		3.9	+2.2
(63)	4.3	+2.0	2+00	17.8	11.6	4+00	16.0	9.9		3.8	+2.3
<u>10:27</u>	4.3	+2.0	<u>10:30</u>	17.8	11.6		16.3	10.2	1+00	3.8	+2.3
	4.5	+1.8		17.8	~		16.6	10.5		3.6	+2.5
	4.6	+1.7		17.8	11.6		16.7	10.6		3.6	+2.5
50	4.7	+1.6		17.9	11.7		16.5	10.4		3.7	+2.4
	4.8	+1.5	50	17.8	11.6	50	16.9	10.8		3.7	+2.4
	4.9	+1.4		17.7	11.5		17.0	10.9	50	3.6	+2.5
	5.0	+1.3		17.7	11.5		17.2	11.1		3.3	+2.8
	5.0	+1.3		17.6	11.4	<u>10:33</u>	17.3	11.2		3.0	+3.1
1+00	5.0	+1.3		17.5	11.3		16.9	10.8		2.0	+4.0
	5.1	+1.2	3+00	17.0	10.8	5+00	16.8	10.7	Loth	1.8	+4.3
	5.1	~		17.0	~	SOUND NORTH		2+00	1.7	+4.4	
	5.1	+1.2		17.0	10.8	0+10	4.2	+1.9 (contd N. NB 102 Pg 21)			
	5.9	+0.7		16.9	10.7		4.2	+1.9			
50	7.0	0.7		16.8	10.6	<u>10:35</u>	4.1	+2.0			
	9.1	2.8	50	16.4	10.2		4.0	+2.1			
	14.2	7.9		16.3	10.1	50	4.0	~	50		
	16.3	10.0		16.3	10.1		4.0	+2.1			

W/30+00; 0+00 = N/4400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.1	+1.9	(60)	15.5	9.5
(60)	4.1	-	2+00	17.1	11.1
10+2	4.1	+1.9		17.2	11.2
<u>10+2</u>	4.2	+1.8	10+45	17.3	11.3
	4.3	+1.7	<u>10+45</u>	17.3	
50	4.4	+1.6		17.3	
	4.5	+1.6	50	17.3	11.3
	4.5			17.7	11.7
	4.5			17.9	11.9
	4.5	+1.5		17.6	11.6
1+00	4.4	+1.6		17.4	11.4
	4.4	+1.6	3+00	17.3	11.3
	4.3	+1.7		17.2	11.2
	4.4	+1.6		17.0	11.0
	5.2	+0.8		17.1	11.1
50	6.2	0.2		17.0	11.0
	7.1	1.1	50	16.9	10.9
	8.2	2.2		16.7	10.7
	11.0	5.0		16.8	10.8

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(67)

W/130+00; 0+00 = N/4400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(59)	16.3	10.4	(59)	3.4	+2.5
	16.2	10.3		3.4	+2.5
4+00	16.3	10.4		3.3	+2.6
	16.3	10.4		3.4	+2.5
	16.8	10.9	1+00	3.2	+2.7
	16.5	10.6		3.2	+2.7
	16.9	11.0		3.1	+2.8
50	16.9	11.0		2.9	+3.0
	17.2	11.3	Lath	2.6	+3.3
	17.1	11.2	N14550	1.5	+4.4
	17.1	11.2	50		
	16.7	10.8	(cont'd N. MB 102 Pg 22)		
	16.1	10.2			
5+00	16.0	10.1			
SOUND NORTH					
0+10	3.9	+2.0	2+00		
	3.9	+2.0			
10:50	3.6	+2.3			
	3.6	+2.3			
50	3.5	+2.4			

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W. 129+00; 0+00=N. 14400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.0	+1.8	(58)	15.8	10.0
(58)	3.9	+1.9	2+00	15.9	10.1
10.55	3.9			16.0	10.2
	3.9	+1.9		16.0	10.2
	4.0	+1.8		16.1	10.3
50	4.0			16.0	10.2
	4.0	+1.8	50	16.0	10.2
	3.9	+1.9		16.2	10.4
	3.8	+2.0		16.1	10.3
	4.0	+1.8		16.5	10.7
1+00	4.9	+0.9		16.4	10.6
	6.0	0.2	3+00	16.5	10.7
	7.1	1.3		16.6	10.8
	11.4	5.6		16.7	10.9
	14.6	8.8		16.7	10.9
50	15.1	9.3		16.8	11.0
	15.3	9.5	50	16.5	10.7
	15.3	9.5		16.6	10.8
	15.4	9.6		16.7	10.9

W. 129+00 CONTD SOUTH (68)

Dist	Sound	Elev	Dist	Sound	Elev
(57)	16.9	11.2	(57)	3.2	+2.5
	17.0	11.3		3.1	+2.6
4+00	17.0	11.3		3.0	+2.7
	17.4	11.7	1+00	2.8	+2.9
	17.3	11.6		2.1	+3.6
	17.0	11.3	Loth N14520	1.5	+4.2
	16.8	11.1	(cont'd N MB 102 P 9 22)		
50	16.0	10.3			
	16.1	10.4	50		
	16.2	10.5			
	16.3	10.6			
	16.7	11.0			
5+00	17.1	11.4			
	SOUND NORTH		2+00		
0+10	3.7	+2.0			
	3.6	+2.1			
11.02	3.3	+2.4			
	3.3				
50	3.3	+2.4			
	3.2	+2.5			

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W/28+00; 0+00 = N. 14,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.1	+2.4	(55)	10.0	4.5
(53)	3.1	+2.4	2+00	13.5	8.0
11/10	3.2	+2.3		15.1	9.6
~	3.3	+2.2		15.5	10.0
	3.3	+2.2		16.0	10.5
50	3.3	}		16.1	10.6
	3.3		50	16.2	10.7
	3.3	+2.2		16.3	10.8
	3.1	+2.4		16.7	11.2
	2.8	+2.7		17.0	11.5
1+00	3.1	+2.4		17.0	11.5
	3.7	+1.8	3+00	16.9	11.4
	4.3	+1.2		17.0	11.5
	5.2	+0.3		17.0	11.5
	6.5	1.0		16.9	11.4
50	10.0	4.5		17.0	11.5
	11.3	5.8	50	17.1	11.6
	8.8	3.3		17.1	11.6
	6.3	0.8		17.2	11.7

W/28+00 CONTD SOUTH (69)

Dist	Sound	Elev	Dist	Sound	Elev
(53)	17.6	12.3	(53)	2.9	+2.4
	17.9	12.6		2.4	+2.9
4+00	18.1	12.8	Left	1.9	+3.4
	18.0	12.7	N/4500	1.1	+4.2
	17.8	12.5	(cont'd N. MB. 102, pg 23)		
	17.3	12.0			
	17.0	11.7			
50	17.1	11.8			
	17.2	11.9	50		
	17.3	12.0			
	17.3	12.0			
	17.0	11.7			
5+00	16.7	11.4			
SOUND NORTH			2+00		
0+10	3.1	+2.2			
	3.1	}			
11/17	3.1				
~	3.1	}			
50	3.1		+2.2		
	3.0	+2.3			

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W127+00:0+00=N14400: SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.0	+2.2	(52)	2.9	+2.3
(52)	2.8	+2.4	2+00	2.9	+2.3
<u>11:22</u>	2.7	+2.5		3.1	+2.1
<u>2.8</u>	+2.4			3.9	+1.3
	2.8	+2.4		4.7	+0.5
50	2.9	+2.3		6.0	0.8
	2.9	~	50	8.5	3.3
	2.9	+2.3		12.4	7.2
	3.0	+2.2	<u>11:25</u>	15.3	10.1
	3.0	~		18.4	13.2
1+00	3.0	+2.2		19.1	13.9
	2.8	+2.4	3+00	18.8	13.6
	2.8	+2.4		19.0	13.8
	2.9	+2.3		18.3	13.1
	2.8	+2.4		18.2	13.0
50	3.0	+2.2		18.0	12.8
	3.4	+1.8	50	17.0	11.8
	5.0	+0.2		16.4	11.2
	4.6	+0.6		16.2	11.0

W127+00 CONTD SOUTH

(70)

Dist	Sound	Elev	Dist	Sound	Elev
(51)	16.5	11.4	(50)	2.0	+3.0
	16.7	11.6		1.6	+3.4
4+00	16.9	11.8		1.0	+4.0
	17.1	12.0	1+00	0.7	+4.3
	16.9	11.8		0.6	+4.4
	16.5	11.4		2.0	+3.0
	16.1	11.0		3.2	+1.8
50	16.0	10.9	<u>11:33</u>	2.1	+2.9
	16.0	10.9	50	2.1	+2.9
	16.0	10.9		2.2	+2.8
	16.0	10.9	Lath N14570	2.1	+2.9
	15.8	10.7	(Contd North MB105P926)		
5+00	15.8	10.7			
SOUND NORTH					
0+10	2.7	+2.3	2+00		
	2.9	+2.1			
<u>11:30</u>	2.9	+2.1			
	2.9	+2.1			
50	2.6	+2.4			
	2.4	+2.6			

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 W. 126+00; 0+00 = N 14.400; SOUND SOUTH

W 126+00 CONTD SOUTH (71)
 Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
			(48)	13.9	9.1	(48)	6.9	2.1			
0+00	3.0	+1.9	(49)	2.3	+2.6		14.0	9.2		7.7	2.9
(49)	3.0	+1.9	2+00	2.4	+2.5	4+00	14.2	9.4	6+00	8.8	4.0
<u>11+20</u>	3.9	+1.0		2.6	+2.3		14.4	9.6		9.9	5.1
	3.0	+1.9		3.3	+1.6		14.7	9.9		11.2	6.4
	3.0			4.2	+0.7		15.0	10.2		12.1	7.2
50	3.0			5.7	0.8		15.0	~		13.0	8.2
	3.0		50	9.9	6.0	50	15.0	10.2	50	13.0	8.2
	3.0	+1.9		14.2	9.3		14.8	10.0		13.1	8.3
	3.8	+1.1		17.1	12.2		14.7	9.9		13.3	8.5
	4.0	+0.9		18.3	13.4		14.4	9.6		14.0	9.2
1+00	3.9	+1.0		18.8	13.9		14.2	9.4		14.2	9.4
	2.7	+2.2	3+00	18.0	13.1	5+00	14.0	9.2	7+00	14.5	9.7
	2.1	+2.8		18.0	13.1		14.0	9.2		14.5	9.7
	2.4	+2.5		17.8	12.9		13.6	8.8		14.5	9.7
	2.3	+2.6		16.7	11.5	<u>11+45</u>	13.0	8.2		14.6	9.8
50	2.2	+2.7		14.4	9.5		10.9	6.1		14.7	9.9
	2.3	+2.6	50	13.9	9.0	50	7.9	3.1	50	14.9	10.1
	2.2	+2.7		13.9	9.0		6.5	1.7		15.0	10.2
	2.2	+2.7		13.8	8.9		6.3	1.5		15.0	10.2

W126+00 CONTD SOUTH			W126+00 CONTD		
Dist	Sound	Elev	Dist	Sound	Elev
(48)	14.8	10.0	(47)	17.1	12.4
	14.7	9.9		17.2	12.5
8+00	14.8	10.0	10+00	17.3	12.6
	15.1	10.3		17.3	12.6
	15.2	10.4		17.4	12.7
	15.3	10.5		17.5	12.8
	15.3	10.5		17.6	12.9
50	15.8	11.0	50	17.6	12.9
	16.0	11.2		17.6	12.9
	16.2	11.4		17.6	12.9
	16.3	11.5		17.7	13.0
	16.5	11.7		17.8	13.1
9+00	16.6	11.8	11+00	17.8	13.1
	16.7	11.9		17.9	13.2
	16.7	11.9	11:50	17.7	13.0
	16.0	11.2		17.6	12.9
	16.3	11.5		16.3	11.6
50	16.9	12.1	50	12.7	8.0
	17.0	12.2		9.2	4.5
	17.0	12.2		6.8	2.1

W126+00 CONTD			1-20-58 (72)		
Dist	Sound	Elev	Dist	Sound	Elev
(46)	5.5	0.9			
	5.2	0.6			
12+00	4.9	0.3			
	SOUND NORTH		2+00		
0+10	2.8	+1.8			
	2.4	+2.2			
11:57	2.2	+2.4			
	3.2	+1.4			
50	2.3	-2.3	50		
	2.2	+2.4			
	2.3	+2.3			
	3.2	+1.4			
	2.7	+1.9			
1+00	2.4	+2.2			
	2.7	+1.9			
	3.0	+1.6			
	1.2	+3.4			
	0.7	+3.9			
50	(Contd North)				
	MB 105 P92B				

1-20-58
 W125+00; 0+00 = N. 14,400; SOUND SOUTH

W125+00; SOUTH (72)
 Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.8	+2.5	(43)	1.9	+2.4
(43)	1.5	+2.8	2+00	2.1	+2.2
<u>1203</u>	1.5	+2.8		2.0	+2.3
	1.5	+2.8		2.0	
	1.4	+2.9	<u>1205</u>	2.0	+2.3
50	1.4	+2.9		3.0	+1.3
	1.2	+3.1	50	3.9	+0.4
	1.2	+3.1		5.9	1.6
	1.0	+3.3		7.3	3.0
	0.9	+3.4		8.9	4.6
1+00	1.0	+3.3		10.6	6.3
	1.4	+2.9	3+00	12.0	7.7
	1.9	+2.4		13.1	8.8
	1.8	+2.5		13.3	9.0
	1.0	+2.5		13.0	8.7
50	1.9	+2.4		12.9	8.6
	1.9	+2.4	50	12.8	8.5
	2.0	+2.3		12.7	8.4
	2.0	+2.3		13.4	9.1

Dist	Sound	Elev	Dist	Sound	Elev
(42)	13.6	9.4	SOUND NORTH		
	13.9	9.7	0+10	1.5	+2.6
4+00	14.0	9.8	(41)	1.4	+2.7
	14.1	9.9	<u>1215</u>	1.4	+2.7
	14.2	10.0	<u>1215</u>	1.1	+3.0
	14.5	10.3	<u>1215</u>	1.0	+3.1
	14.9	10.7	(Could North MB 1051930)		
50	14.7	10.5	50		
	14.7	10.5			
	14.7	10.5			
	14.3	10.1	1+00		
	12.3	8.1			
5+00	9.9	5.7			
	7.8	3.6			
	6.0	1.8			
	4.6	0.4	50		
	4.0	+0.2			
50	3.5	+0.7			

1-24-58			W. 124+00; SOUTH			W. 124+00; SOUTH			(74)		
W. 124+00; 0+00 = N. 14,400; SOUND SOUTH			W. 124+00; SOUTH			W. 124+00; SOUTH			W. 124+00; SOUTH		
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
						(47)	15.1	10.4	SOUND NORTH		
0+00	1.9	+2.8	(47)	2.0	+2.7	<u>922</u>	15.1	10.4	0+10	1.8	+2.9
(47)	1.8	+2.9	2+00	1.9	+2.8	<u>4+00</u>	15.0	10.3	(47)	1.7	+3.0
<u>9:18</u>	1.8	+2.9	<u>920</u>	2.7	+2.0		15.2	10.5	<u>928</u>	1.5	+3.2
	2.1	+2.6		3.3	+1.4		15.4	10.7		1.2	+3.5
	2.4	+2.3		4.0	+0.7		15.3	10.6	50	1.1	+3.6
50	2.1	+2.6		5.3	0.6		15.0	10.3		1.0	+3.7
	2.1	+2.6	50	8.1	3.4	50	14.7	10.0		1.0	+3.7
	2.0	+2.7		10.4	5.7		12.8	8.1		0.7	+4.0
	2.0			11.6	6.9		12.0	7.3		0.9	+3.8
	2.0			12.4	7.7		10.4	5.7	1+00	0.9	+3.8
1+00	2.0	+2.9		12.4	7.7		8.0	3.3		0.5	+4.2
	2.2	+2.5	3+00	12.4	7.7	5+00	6.8	2.1		0.7	+4.0
	2.2	+2.5		12.3	7.6		5.9	1.2		0.7	+4.0
	2.2	+2.5		12.7	8.0		5.1	0.4		1.0	+3.7
	2.0	+2.7		13.0	8.3		4.2	+0.5	50	0.9	+3.8
50	2.1	+2.6		13.6	8.9		4.2	+0.5		1.1	+3.6
	2.0	+2.7	50	14.2	9.5	50	4.2	+0.5		2.1	+2.6
	2.0	+2.7		15.0	10.3					2.2	+2.5
	2.0	+2.7		15.1	10.4					1.4	+3.7

W124+00; CONTD NORTH			NORTH		
DIST	Sound	Elev	DIST	Sound	Elev
2+00	1.4	+3.4	4+00	2.1	+2.7
(48)	1.6	+3.2	(48)	2.2	+2.6
	1.5	+3.3		2.2	+2.6
<u>933</u>	1.5	+3.3		2.2	+2.6
	1.4	+3.4		2.4	+2.4
50	1.3	+3.5	50	2.7	+2.1
	1.5	+3.3		3.0	+1.8
	1.8	+3.0		2.7	+2.1
	1.7	+3.1		2.8	+2.0
	1.7	+3.1		2.8	
3+00	1.7	+3.1	5+00	2.8	
	1.9	+2.9		2.8	
	1.8	+3.0		2.8	+2.0
	2.0	+2.8		3.0	+1.8
	1.8	+3.0		3.0	+1.8
50	2.0	+2.8	50	2.9	+1.9
	2.0	+2.8		2.9	
	1.9	+2.9		2.9	
	1.9	+2.9		2.9	
	2.0	+2.8		2.9	+1.9

W124+00 NORTH			NORTH		
DIST	Sound	Elev	DIST	Sound	Elev
6+00	2.9	+1.9	8+00	3.0	+1.8
(48)	3.0	+1.8	(48)	3.1	+1.7
	3.0	+1.8		3.0	+1.8
<u>935</u>	3.0	+1.8		3.2	+1.6
	3.1	+1.7		3.3	+1.5
	3.1	+1.7		3.3	+1.5
50	3.1	+1.7	50	3.1	+1.7
	3.2	+1.6		3.2	+1.6
	3.3	+1.5		3.1	+1.7
	3.1	+1.7		3.3	+1.5
	3.3	+1.5		3.3	
7+00	3.2	+1.6	9+00	3.3	
	3.3	+1.5		3.3	
	3.1	+1.7		3.3	
	3.0	+1.8		3.3	+1.5
	3.0	+1.8		3.1	+1.7
50	3.0	+1.8	50	3.1	
	3.2	+1.6		3.1	
	3.2	+1.6		3.1	+1.7
	3.1	+1.7		3.2	+1.6
	3.1	+1.7		3.2	+1.6

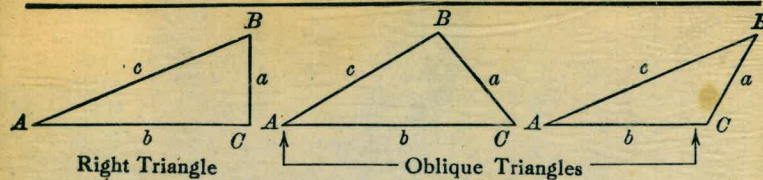
W124+00 NORTH 1-24-58			W124+00 NORTH		
Dist	Sound	Elev	Dist	Sound	Elev
10+00	3.3	+1.5	12+00	2.8	+2.0
(48)	3.0	+1.8	(48)	2.8	+2.0
	3.0		<u>940</u>	2.8	+2.0
	3.0		<u> </u>	3.0	+1.8
	3.0	+1.8		3.0	
50	3.2	+1.6	50	3.0	
	3.2	+1.6		3.0	+1.8
	2.9	+1.9		2.8	+2.0
	3.2	+1.6		2.8	
	3.0	+1.8		2.8	
11+00	3.0	+1.8	13+00	2.8	+2.0
	2.9	+1.9		2.6	+2.2
	2.9	+1.9		2.6	+2.2
	3.1	+1.7		2.8	+2.0
	3.1			2.3	+2.5
50	3.1		50	2.5	+2.3
	3.1	+1.7		2.4	+2.4
	2.8	+2.0		2.3	+2.3
	2.9	+1.9		2.4	+2.4
	2.8	+2.0		2.4	+2.4

(76)

W124+00 NORTH		
Dist	Sound	Elev
14+00	2.2	+2.6
(48)	2.0	+2.8
<u>942</u>	2.2	+2.6
<u> </u>	2.0	+2.8
	1.7	+3.1
50	1.1	+3.7
	0.9	+3.9
Lat/4 N15.870	0.2	+4.6 (cont'd N. NB102 P. 924)

CONTD EAST FB N^o 105

TRIGONOMETRIC FORMULÆ



Right Triangle
Oblique Triangles

Solution of Right Triangles
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. $\operatorname{Cosine} 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$ ft.
When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.