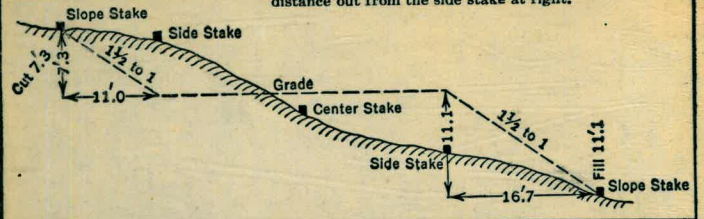
MISSION BAY

59

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

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



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

KEUFFEL & ESSER CO., N. Y.

Book No 59

C.18 2" x 2" 191+00

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C. BARRAGAN 8-14-50
A. SHERRY
W. CARVER

(2)

X-SECTION OF AREA EAST OF MIDWAY DRIVE - PROJECT No 16

P.T. STA - 44+00-N

	DIST	+	H.I.	-	ELEV
	T.P.	4.82	11.00		6.18
2"x2" 10' STA-44+00 127+00	0+00 = (N-44+00 W 127+00)		SECTION DUE EAST		
	0+00			5.1	5.9
	E-0+40			4.5	6.5
	E 1+00			4.6	6.4
	E 150			4.7	6.3
	E 205			4.6	6.4
	E 260			4.6	6.4
	E 320			4.9	6.1
	E 390			4.6	6.4
	E 400			3.2	7.8
	E 404			2.1	8.9
	E 408			4.1	6.9
	E 425			4.7	6.3
	E 480			4.5	6.5
	E 600			4.5	6.5
	E 710			4.3	6.7

Sta 44+00

Sta	+	H.I. 11.00	-	Elev
P.T.				
E 825			4.3	6.7
E 940			4.4	6.6
E 1055			4.3	6.7
T.P.		11.00	4.30	6.70

2"x2" STA 96+00 N 127+00 W

PT STA. 45+00 N

DIST	+	H.I.	−	ELEV.
T.P	5.14	11.84		6.70

0+00 = {45+00N / 127+00W} SECT E/E W

E 1065			5.1	6.7
E 980			4.8	7.0
E 925			5.2	6.6
E 865			5.2	6.6
E 755			4.9	6.9
E 640			5.1	6.7
E 515			5.6	6.2
E 490			5.2	6.6
E 479			4.0	7.8
E 476			2.1	9.7
E 474			3.7	8.1
E 463			5.0	6.8
E 410			5.6	6.2
E 350			5.1	6.7
E 290			4.9	6.9
E 240			4.9	6.9
E 180			5.1	6.7

PT Sta 45+00

Sta	+	H.I. 11.84	−	Elev
E 125			4.9	6.9
E 0+68			4.8	7.0
0+00			4.9	6.9
W 0+30			5.7	6.1
W 0+54			5.2	6.6
W 110			5.3	6.5
W 170			5.4	6.4
W 210			5.5	6.3
W 280			5.7	6.1
W 330			5.4	6.4
W 385			5.6	6.2
W 440			5.7	6.1
W 495			5.7	6.1
W 545			6.0	5.8
W 605			6.3	5.5
W 660			6.0	5.8
W 672			6.9	4.9
W 690			6.5	5.3
W 745			6.6	5.2

PX

Sta 45+00

Sta	+	HI	−	Elev
W810		11.84	6.6	5.2
W820			6.4	5.4
W882			7.7	4.1
W889			9.9	1.9
W894			10.7	1.1

8-14-50 (4)

PX

STA − 46+00 − N (N-46+00 (W-12700))

DIST	+	HI	−	ELEV
T.P.	7.69	11.39		6.70
W964			9.4	1.0
~~W950~~			7.0	~~4.7~~ 3.4
W946			7.0	4.4 ~~3.4~~
W943			5.3	6.1
W912			6.1	5.3
W907			6.1	5.3
W900			5.6	5.8
W895			6.8	4.6
W888			6.5	4.9
W820			6.0	5.4
W775			5.9	5.5
W710			5.6	5.8
W660			5.6	5.8
W610			5.6	5.8
W560			5.5	5.9
W500			5.2	6.2
W442			5.2	6.2
W385			5.0	6.4

10°E 2°35'
STA − SN-46+00
(W-12700

Sta 46+00 - N

Sta	+	HI	−	Elev
W 330		11.39	5.1	6.3
W 260			5.1	6.3
W 200			5.1	6.3
W 148			5.1	6.3
W 0+90			5.1	6.3
W 0+40			5.3	6.1
0+00			5.0	6.4
E 0+50			5.1	6.3
E 0+82			5.2	6.2
E 130			4.7	6.7
E 185			4.7	6.7
E 245			4.4	7.0
E 300			4.6	6.8
E 350			4.3	7.1
E 413			4.1	7.3
E 455			4.3	7.1
E 490			5.3	6.1
E 545			4.6	6.8
E 555			7.0 (4.0)	4.4

46+00 N

8-14-53

Sta	+	HI	−	
Sta		11.39		
560 E 440			1.9	9.5
5660 E 345			3.9	7.5
5710 E 456			5.1	6.3
E 622			5.1	6.3
E 735			5.1	6.3
E 850			4.9	6.5
E 930			4.7	6.7
E 1065			4.7	6.7
E 1175			4.8	6.6

8-1450

A400 = (N-47+00 / W-127+00) STA - 47+00 N

DIST	+	H.I.	-	ELEV
T.P	5.21	12.01		6.70
E 1185			5.5	6.5
E 1060			5.2	6.8
E 955			5.5	6.5
E 860			5.9	6.1
E 810			5.9	6.1
E 755			6.0	6.0
E 710			6.0	6.0
E 640			5.9	6.1
E 62~~8~~ 16			4.6	6.4
E 622 2			3.1	8.9
E 618 4			4.3	7.7
E 612 6			5.4	6.8
E 570			6.3	5.7
E 530			5.5	6.5
E 475			5.3	6.7
E 410			5.7	6.3
E 355			5.9	6.1
E 300			5.9	6.1

C. GALLAGHAN
A. SHERRY
W. CARVER

8-19-50

PY 8-15-50

(6)

N-47+00

Sta.	+	HI	-	Elev
E 245		12.01	5.5	6.5
E 190			5.4	6.6
E 135			5.1	6.9
E 0+80			5.5	6.5
E 0+58			5.5	6.5
0+00			5.1	6.9

PX

STA - 79+00 - N 8-16-15

0+00 = Pt. 340' E/of West Causeway B/L.

	Sound	East		Sound	
Dist	Sound		Dist	Sound	
0+00	+?.		1+70	14.0	11.4
+14	0.0	+2.6		13.8	11.2
+20	1.2	+1.4	2.6	13.9	11.3
	3.3	0.7	2+00		
	6.1	3.5		12.8	10.2
50	8.2	5.6		12.0	9.4
	9.8	7.2		11.4	8.8
	9.8	7.2		11.2	8.6
	11.2	8.6	+50	11.1	8.5
	12.3	9.7		10.4	7.8
1+00	13.4	10.8		9.0	6.4
	13.9	11.3		9.0	6.4
	13.9	11.3		8.1	5.5
	13.9	11.3	3+00	7.7	5.1
	14.6	12.0		7.4	4.8
50	14.6	12.0		7.3	4.7
60	14.2	11.6	+30	7.4	4.8

79+00-N 8-16-50 PX

Sound East

Dist	Sound		Dist	Sound	
3+40	7.1	4.4	+50	1.8	+1.0
+50	7.1	4.4	+50 60	1.8	+1.0
				1.8	+1.0
80	6.8	4.1	9:20	1.8	+1.0
	6.8	4.1	2.8	1.6	+1.2
4+00	6.6	3.9	6+00	1.5	+1.3
2.7	6.7	4.0		1.4	+1.4
	6.2	3.5		1.6	+1.2
	5.6	2.9		1.6	+1.2
	5.1	2.4		1.5	+1.3
+50	5.1	2.4	+60	1.6	+1.2
	4.8	2.1		1.6	+1.2
	4.9	2.2		1.7	+1.1
	4.7	2.0		1.8	+1.0
	3.9	1.2		1.9	+0.9
5+00	3.5	0.8	7+00	2.0	+0.8
	3.4	0.7		2.1	+0.7
	2.9	0.2		2.2	+0.6
	2.3	+0.4		2.1	+0.7
+50	2.2	+0.5	140	2.0	+0.8

P7

7+60 N Sound East 8-16-50

Dist.	Sound		Dist.	Sound
7+50	2.1	+0.9	7.0	4.0
3.0	2.2	+0.8	7.9	4.9
	2.2	+0.9 +50	8.1	5.1
	2.3	+0.7	8.1	5.1
	3.7	0.7	8.1	5.1
8+00	3.8	0.8	6.1	3.1
	5.0	2.0	4.9	1.9
	5.4	2.4 10+00	3.0	0.0
	6.0	3.0	2.0	+1.0
	6.0	3.0	1.6	+1.4
9'25 +50	6.0	3.0	1.0	+2.0
	6.3	3.3	0.4	+2.6
3.0	6.5	3.5 10+50	0.2	+2.8
	6.8	3.8	0.0	+3.0
	6.9	3.9		
9+00	6.9	3.9		
	6.9	3.9		
+20	7.0	4.0		

8-16-50 (B)

80+00-N 10

2+00 = PT 430' E/C ELSEWAY B/L (WEST)

SOUND EAST

PX

Dist.	Sound		Dist.	Sound
0+00	+.7		1+70	13.9
+10	0.0	+3.3		13.3
20	3.0	+0.3		13.1
3.7	7.1	3.8	2+00	12.7
	9.6	6.3		12.6
50	11.3	8.0		11.1
	12.8	9.5		11.1
	13.1	9.8		11.3
	13.2	9.9	50	11.4
	13.4	10.1		10.0
1+00	13.4	10.1		10.7
	14.0	10.7		9.5
	14.0	10.7		9.5
	14.9	11.6	3+00	9.2
	15.0	11.7		8.1
50	15.0	11.7		8.3
1+60	14.5	11.2	3+30	8.6

	10.6
	10.0
	9.8
	9.4
	9.3
	7.8
	7.8
	8.0
	8.1
	6.7
	7.4
	6.2
	6.2
	5.9
	4.8
	5.0
	5.3

P1 80+00N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
3+40	8.8	5.5	5+30	5.1	1.8
+50	8.0	4.7		4.9	1.6
(3.3)	8.0	4.7	+50	4.8	1.5
	8.0	4.7		4.6	1.3
	7.6	4.3		3.8	0.5
	7.4	4.1		3.5	0.2
4+00	7.3	4.0		3.6	0.3
	7.1	3.8	6+00	3.3	0.0
	7.2	3.9	(3.3)	3.1	+02
	7.7	4.4	(3.4)	3.0	+0.4
	6.3	3.0		3.0	+0.4
4+50	6.2	2.9		3.0	+0.4
	6.9	3.6	+50	2.8	+0.6
	6.1	2.8		3.1	+0.3
	7.1	3.8		3.1	+0.3
	6.2	2.9		3.1	+0.3
5+00	7.0	3.7 9+50		3.1	+0.3
	5.3	2.0	7+00	3.1	+0.3
+20	4.9	1.6	7+10	3.0	+0.4

80+00N Sound East 8-16-50 P1 (3)

Dist.	Sound		Dist.	Sound	
7+20	3.0	+0.4	9+10	4.1	0.7
(3.4)	2.9	+0.5	(3.4)	6.5	3.1
	3.0	+0.4		6.8	3.4
+50	2.9	+0.5		6.0	2.6
	3.0	+0.4	+50	6.2	2.8
	3.0	+0.4		6.5	3.1
	3.0	+0.4		6.6	3.2
	2.9	+0.5		6.6	3.2
8+00	2.9	+0.5		6.6	3.2
	3.0	+0.4	10+00	6.5	3.1
	2.9	+0.5		5.7	2.3
	2.9	+0.5		5.0	1.6
	2.9	+0.5		3.8	0.4
+50	3.1	+0.4		3.3	+0.1
	3.2	+0.2	+50	2.1	+1.3
	3.1	+0.3		2.5	+0.9
	3.3	+0.1		1.8	+1.6
	3.4	0.0		1.5	+1.9
9+00	4.8	0.4	10+90	1.1	+2.3

SounD East

PX

80+00 N 8-16-50

Dist.	SounD		Dist.	SounD
9:55				
11+00	1.0	+2.4		
(3.4)	0.4	+3.0		
	0.4	+3.0		
9:58	0.2	+3.2		
9:48				
+40	0.1	+3.3		

(10)

81+00 N 8-16-50

0+00 = PT. 520' E/causeway B/t west

PX

SounD East

Dist.	SounD		Dist.	SounD	
10:15					
0+00	0.0	+3.8	1+70	13.9	10.1
	2.1	+1.7		13.6	9.8
(3.8)	7.7	3.4	(3.8)	13.3	9.5
	10.0	6.2	2+00	13.4	9.6
	11.9	8.1		12.8	9.0
+50	12.8	9.0		12.2	8.4
	13.3	9.5		12.3	8.5
	14.6	11.0		12.1	8.3
	14.2	10.4	+50	11.4	7.6
	14.0	10.2		11.3	7.5
11+00	14.6	10.8		11.0	7.2
	14.0	10.2		10.2	6.4
	14.0	10.2		10.1	6.3
	13.6	9.8	3+00	9.0	5.2
	13.1	9.3		9.6	5.8
+80	13.3	9.5		9.6	5.8
+60	14.0	10.2	3+30	9.4	5.6

PX

8+00 N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
140	8.9	5.1	5+30	7.0	3.2
+50	8.6	4.8		7.7	3.9
	8.9	5.1	+50	6.9	3.1
(3.8)	9.0	5.2	(3.8)	7.1	3.3
	8.7	4.9		7.0	3.2
	8.8	5.0		6.6	2.9
4+00	8.9	5.1		6.2	2.4
	8.8	5.0	6+00	6.0	2.2
	8.0	4.2		6.1	2.3
	8.1	4.3		5.8	2.0
	8.1	4.3			
+50	8.7	4.9			
	8.2	4.4	+50	5.0	1.2
	8.1	4.3		4.9	1.1
	7.9	4.1		4.9	1.1
	7.8	4.0		4.6	0.8
5+00	7.6	3.8		4.8	1.0
	7.9	4.1	7+00	5.0	1.2
+20	7.4	3.4	+10	4.0	0.2

8+00 N Sound East 8-16-50 PX

Dist.	Sound		Dist.	Sound	
7+20	3.8	0.0	9+00	3.3	+0.6
	4.0	0.2	(3.9)	3.2	+0.7
	4.0	0.2		3.2	+0.7
				3.1	+0.8
+50	4.0	0.2		4.0	0.1
	4.0	0.2	+50	5.1	1.2
(3.8)	3.9	0.1		6.2	2.3
(3.9)	3.8	+0.1		5.7	1.8
	3.9	0.0		6.1	2.2
8+00	3.8	+0.1		6.5	2.6
	3.6	+0.3	10+00	6.6	2.7
	3.8	+0.1		6.9	3.0
10+20	3.8	+0.1		6.7	2.8
	3.9	0.0	(3.9)	6.8	2.9
+50	3.6	+0.3	(4.0)	7.0	3.0
	3.4	+0.5	+50	6.6	2.6
	3.5	+0.4		5.0	1.0
	3.5	+0.4		3.0	+1.0
+90	3.4	+0.5	+80	2.2	+1.8

8+00N Sound East 8-16-50 PX

Dist.	Sound	
10+90	1.6	+2.4
11+00	1.3	+2.7
10:25	1.7	+2.3
(4.0)	2.0	+2.0
	2.4	+1.6
	1.6	+2.4
+50	2.0	+2.0
	2.1	+1.9
	2.1	+1.9
	2.5	+1.5
10:30	2.6	+1.4
12+00	0.2	+3.8

82+00N PX

0+00 = Pt 530' S/Gooseneck 3/4 west.

Sound East

Dist. 11.50	Sound		Dist.	Sound	
0+00	?		1+70	13.3	8.9
+10	0.0	+4.3		14.1	9.8
(4.3)	1.8	+2.5	(4.3)	15.0	10.7
	2.7	+1.6	2+00	15.1	10.8
	3.0	+1.3		15.7	11.4
+50	3.2	+1.1		15.4	11.1
	4.0	+0.3		14.9	10.6
	4.9	0.5		15.0	10.7
	4.9	1.6	+50	15.0	10.7
	6.2	1.9		15.3	11.0
1+00	7.3	3.0		15.0	10.7
	8.0	3.7		14.7	10.4
	10.7	6.4		13.5	9.2
	11.1	6.8	3+00	13.8	9.5
	11.2	6.9		13.3	9.0
+50	12.0	7.7		12.8	8.5
+60	12.7	8.4	+30	11.9	7.6

PX

82+00N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
+40	12.0	7.7	5+30	9.0	4.7
3+50	11.6	7.3		9.7	5.4
	11.6	7.3	+50	9.3	5.0
(4.3)	11.3	7.0	(4.3)	9.0	4.7
	10.9	6.6		9.1	4.8
	10.8	6.5		9.0	4.7
4+00	10.6	6.3		8.8	4.4
	10.3	6.0	6+00	8.9	4.5
	9.7	5.4		9.1	4.8
	9.8	5.5		9.2	4.9
	10.1	5.8		9.3	5.0
+50	9.8	5.5		9.0	4.7
	9.0	4.7	+50	8.9	4.6
	9.1	4.8		9.0	4.7
	9.6	5.3		8.7	4.4
	9.3	5.0		8.5	4.2
5+00	8.8	4.5		8.7	4.4
	8.8	4.5	7+00	8.9	4.6
+20	8.8	4.5	+10	8.9	4.6

82+00N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
7+20	7.7	3.4	9+10	4.9	0.5
	7.1	2.8	(4.4)	5.3	0.9
	7.2	2.9		4.9	0.5
+50	7.1	2.8		4.9	0.0
	7.0	2.7	+50	4.0	+0.4
(4.3)	8.1	3.8		3.5	+0.9
(4.4)	7.0	2.6		3.5	+0.9
	7.1	2.7		3.7	+0.7
8+00 10:35	7.0	2.6		3.7	+0.7
	6.1	1.7	10+00	3.5	+0.9
	6.3	1.9		3.3	+1.1
	6.8	2.4		3.4	+1.0
	5.5	1.1		3.4	+1.0
+50	5.8	1.3		3.3	+1.1
	8.1	4.3	+50	3.7	+0.7
	8.8	4.4		4.5	0.1
	7.0	2.6		4.6	0.2
	5.7	1.3		4.8	0.4
9+00	5.2	0.8	10+90	6.0	1.6

PX

PX 82+00 N Sound East 8-16-50

Dist.	Sound		Dist.	Sound
11+00	6.8	2.4		
	7.5	3.1		
(4.4)	7.2	2.8		
	7.0	2.6		
	5.9	1.5		
+50	4.0	+0.4		
	3.0	+1.4		
	2.6	+1.8		
	2.0	+2.4		
	1.5	+2.9		
12+00	1.0	+3.4		
	1.0	+3.4		
	2.1	+2.3		
	2.0	+2.4		
	2.5	+1.9		
11:00 +50	2.7	+1.7		
	1.8	+2.6		
	1.3	+3.1		
+80	1.4	+3.0		

83+00N - 8-16-50 PX (4)

0+00 = Pt. 460' ± Roadway 3/4 west.

Sound East

Dist. 11:15	Sound		Dist.	Sound	
0+00	0.0	+4.7	1+70	2.9	+1.8
	1.7	+3.0		2.9	+1.8
(4.7)	2.2	+2.5	(4.7)		
	2.8	+1.9	2+00	2.7	+2.0
	3.3	+1.4		2.0	+2.7
+50	3.6	+1.1		2.0	+2.7
	3.9	+0.8		2.0	+2.7
	4.1	+0.6		2.0	+2.7
	4.2	+0.5		3.0	+1.7
	4.1	+0.6		3.9	+0.8
1+00	3.9	+0.8		5.5	0.8
	3.9	+0.8		7.7	3.0
	4.0	+0.7		7.8	3.1
	3.7	+1.0	3+00	8.0	3.3
	3.4	+1.3		10.0	5.3
+60	3.2	+1.5		12.2	7.5
+60	5.0	+1.7	+30	12.9	8.2

83+00 N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
3+40	13.4	8.7	5+30	12.0	7.3
+50	14.2	9.5		11.8	7.1
(4.7)	14.8	10.1	11:20 +50	11.7	7.0
	15.0	10.3	(4.7)	11.2	6.5
	15.3	10.6		11.2	6.5
	15.5	10.8		11.1	6.4
4+00	15.6	10.9		10.8	6.1
	15.3	10.6	6+00	10.9	6.2
	15.3	10.6		10.7	7.0
	15.2	10.5		10.6	5.9
	15.1	10.4		10.4	5.7
+50	15.0	10.3		9.5	4.8
	14.1	9.4	+50	9.6	4.9
	14.1	9.4		9.7	5.0
	14.4	9.7		10.2	5.5
	14.3	9.6		11.0	6.3
5+00	13.8	9.1		10.1	5.4
	13.0	8.3	7+00	9.9	5.2
+20	12.3	7.6	+10	10.1	5.4

83+00 N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
7+20	10.0	5.3	9+10	11.1	5.4
	9.8	5.1		10.2	5.5
(4.7)	10.0	5.3	(4.7)	10.2	5.5
+50	10.0	5.3	(4.8)	10.3	5.5
	9.8	5.1	+50	10.2	5.4
	9.6	4.9		10.0	5.2
	9.5	4.8		9.8	5.0
	10.1	5.4		9.8	5.0
8+00	10.1	5.4		9.6	4.8
	10.4	5.7	10+00	9.7	4.9
	10.4	5.7		11.8	7.0
	10.3	5.6	N.25	13.0	8.2
	10.2	5.5		12.8	8.0
+50	10.3	5.6		11.1	6.3
	11.0	6.3	+50	8.0	3.2
	10.7	6.0		7.7	2.9
	9.9	5.2		7.3	2.5
	10.2	5.5		7.4	2.6
9+00	10.1	5.4	+98	8.3	3.5

PX 83+00N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
11+00	7.1	2.3	12+90	6.1	1.3
(4.8)	6.9	2.1	13+00	6.0	1.2
	6.8	2.0	(4.8)	5.1	0.3
	6.3	1.5		4.8	0.0
	6.0	1.2		4.0	+0.8
+50	5.1	0.3		3.7	+1.1
	4.0	+0.8	+50	3.0	+1.8
	3.6	+1.2		2.8	+2.0
	3.4	+1.4		2.7	+2.1
	3.4	+1.4		2.3	+2.5
12+00	3.5	+1.3		2.1	+2.7
	3.7	+1.1	14+00	2.5	+2.3
	3.8	+1.0		2.2	+2.6
	4.0	+0.8		2.0	+2.8
	4.2	+0.6		2.1	+2.7
+50	4.5	+0.3		2.3	+2.5
	5.0	0.2	+50	2.0	+2.8
	4.9	0.1		1.8	+3.0
+80	4.6	+0.2	+70	1.7	+3.1

83+00N Sound East 8-16-50

PX

Dist.	Sound	
14+80	1.7	+3.1
(4.8)	1.5	+3.3
15+00	1.5	+3.3
	1.4	+3.4
	1.2	+3.6
11:30 +30	0.8	+4.2

PX

8+00N – 8-16-50

0+00 = Pt. 400' S/causeway & west.

Sound East

Dist. 11:50	Sound		Dist.	Sound	
0+00	0.0	+5.0	1+70	3.1	+1.9
	1.7	+3.3		3.3	+1.7
(5.0)	2.8	+2.2	(5.0)	3.2	+1.8
	3.0	+2.0	2+00	3.2	+1.8
	3.0	+2.0		3.1	+1.9
+50	3.2	+1.8		3.0	+2.0
	3.3	+1.7		3.0	+2.0
	3.6	+1.4		2.8	+2.2
	4.0	+1.0	+50	2.5	+2.5
	4.0	+1.0		2.4	+2.6
1+00	4.0	+1.0		2.1	+2.9
	4.0	+1.0		1.8	+3.2
	4.0	+1.0		1.9	+3.1
	3.6	+1.4	3+00	1.8	+3.2
	3.1	+1.9		1.7	+3.3
+50	3.0	+2.0		1.4	+3.6
+60	3.0	+2.0	+30	1.4	+3.6

8+00N – Sound East 8-16-50

PX

Dist. 11:65	Sound		Dist	Sound	
3+40	1.5	+3.5	5+20	14.6	9.6
+50	1.6	+3.4		15.0	10.0
	1.4	+3.6	(5.0)	14.9	9.9
(5.0)	1.4	+3.6	+50	14.9	9.9
	1.3	+3.7		15.0	10.0
	1.0	+4.0		15.0	10.0
4+00	1.0	+4.0		15.0	10.0
	0.6	+4.4		15.0	10.0
	##		6+00	14.8	9.8
2+00	1.2	+3.8		14.6	9.6
	1.9	+3.1		14.5	9.5
+50	2.8	+2.2		13.8	8.8
+50	4.1	+0.9		13.7	8.7
	6.0	1.0	+50	14.0	9.0
	7.7	2.7		14.1	9.1
	9.4	4.4		13.5	8.5
	10.8	5.8		12.9	7.9
5+00	11.5	6.5		12.1	7.1
+10	13.7	8.7	7+00	12.2	7.2

PX 84+00N Sound East 8-16-50

Dist.	Sound		Dist.	Sound	
7+10	12.2	7.2	9+00	10.2	5.2
	11.9	6.9		10.1	5.1
(5.0)	11.4	6.4	(5.0)	10.2	5.2
	11.2	6.2		10.1	5.1
+50	11.1	6.1		10.3	5.3
	10.9	5.9	+50	10.2	5.2
	10.6	5.6		10.1	5.1
	10.8	5.8		10.1	5.1
	10.3	5.3		10.3	5.3
8+00	9.8	4.8		10.0	5.0
	10.2	5.2	10+00	10.3	5.3
12:05	10.1	5.1		10.5	5.5
	10.0	5.0		10.6	5.6
	10.1	5.1		10.7	5.7
+50	10.0	5.0		10.8	5.8
	10.1	5.1	+50	10.9	5.9
	9.9	4.9		10.9	5.9
	10.0	5.0		11.0	6.0
T.90	10.3	5.3	+80	11.1	6.1

E4+00N. Sound East 8-16-50 PX

Dist.	Sound		Dist.	Sound	
10+90	11.1	6.1	12+80	11.0	6.0
11+00	11.2	6.2		10.8	5.8
	11.4	6.4	13+00	10.0	5.0
(5.0)	11.2	6.2	(5.0)	9.6	4.6
	11.1	6.1		8.7	3.7
	11.2	6.2		7.9	2.9
+50	11.3	6.3		7.1	2.1
	11.2	6.2	+50	5.9	0.9
	11.2	6.2		4.0	+1.0
	11.2	6.2		3.8	+1.2
	11.3	6.3		4.0	+1.0
12+00	11.3	6.3		3.9	+1.1
	11.4	6.4	14+00	4.0	+1.0
	11.0	6.0		4.1	+0.9
	11.0	6.0		4.2	+0.8
	11.0	6.0		4.3	+0.7
+50	11.0	6.0		4.2	+0.8
	11.1	6.1	+50	4.5	+0.5
+70	11.1	6.1	+60	5.3	0.3

RX 84+00N SOUND East 8-16-50

Dist.	Sound		Dist	Sound	
14+70	6.0	1.0	16+60	4.8	+0.2
	5.1	0.1		5.1	0.1
(5.0)	5.0	0.0	(5.0)	4.8	+0.2
15+00	4.8	+0.2		4.8	+0.2
	4.5	+0.5	17+00	6.2	1.2
	4.2	+0.8		6.8	1.8
	4.1	+0.9	(3.0)	6.8	1.8
12:10	4.4	+0.6	(5.1)	5.9	0.8
+50	4.2	+0.8		5.2	0.1
	4.5	+0.5	+50	5.1	0.0
	5.1	0.1		5.0	+0.1
	6.8	1.8		5.0	+0.1
	6.3	1.3		5.0	+0.1
16+00	6.2	1.2		5.0	+0.1
	6.2	1.2	18+00	5.0	+0.1
	4.8	+0.2		5.0	+0.1
	4.7	+0.3		5.0	+0.1
	4.6	+0.4		5.0	+0.1
+50	4.8	+0.2	+40	5.5	+0.1

8-16-50 (2)

84+00N SOUND East 8-16-50 RX

Dist.	Sound		Dist	Sound
18+50	5.8	0.7		
	6.0	0.9		
(5.1)	5.4	0.3		
	5.0	+0.1		
	4.8	+0.3		
19+00	4.7	+0.4		
	4.4	+0.7		
	4.7	+0.4		
	4.7	+0.4		
	4.5	+0.6		
+50	4.4	+0.7		
	4.3	+0.8		
12+15	4.4	+0.7		
	4.2	+0.9		
	4.0	+1.1		
20+00	3.7	+1.4		

8-22-50

X-Sections of Prov. 16

(Area South of Detour)

PX

STA - N- 35+00

STA +	+ H.I.	-	ELEV
.0+00 = (N-35+00 / W-123+50)	SEC - E/E/W		
B.M	2.31	12.66	10.35
W-285		8.2	4.5
W272		6.6	6.1
W250		6.3	6.4
W200		6.1	6.6
W150		6.1	6.6
W100		6.0	6.7
W0+50		6.0	6.7
W0+45		6.1	6.6
W0+38		6.9	5.8
W0+28		5.7	6.8
W0+21		7.0	5.7
W0+08		5.8	6.9
0+80		4.2	8.5
E0+30		3.2	9.5
E0+75		2.3	10.4

Top Hill Sta 1+23

PX

B

8-22-50

(10)

Sta N 35+00 Cont

Sta +	HI	-	Elev
E103	12.66	1.9	10.7
E115		5.9	6.7
E150		6.6	6.1
E200		5.6	7.1
E250		6.5	6.2
E300		6.6	6.1
E350		6.4	6.3
E400		6.2	6.5
E450		6.3	6.4
E500		6.2	6.5
E550		6.1	6.6
E600		6.0	6.7
E650		6.2	6.5
E700		6.1	6.6
E750		6.2	6.5
E800		6.4	6.3
E825		5.8	6.9
E845		6.8	5.9
E850		6.3	6.4

PX

Sta N 35+00

Sta	+	HI	−	Elev	
E900		12.66	5.2	7.5	
E914			2.9	9.8	
E925			4.8	7.9	
E950			5.5	7.2	
E1000			5.6	7.1	
E1050			5.0	7.7	
T.P.			4.71	7.95	Top 12" TAP
T.P.			6.21	6.45	OPP Sta 120+00
T.P.	1.16	11.51		10.35	
0+00 = (N-35+00 W-127+00)					SEC. EAST
0+25 E		14.23	7.7	6.6	
0+42 E			8.2	6.1	
0+43 E			9.8	4.5	
0+49 E			11.4	2.9	
W				6.7	
W1+55			7.2	4.3	
W2+30			7.1	4.4	
W2+54			6.4	5.1	
W2+75			0.0	11.51	
T.P		11.51	4.67	6.84	

Pick Up on Sec To Shore

8.22+00 (21)

Sta W118+00 - N 35+00

0+00 = (Sta W 118+00, Sta N 35+00)

Sta	+	HI	−	Elev	
0:00	5.18	11.63	5.0	6.6	TP OPP 120+00 6.45
0+35			5.2	6.4	
0+70			5.1	6.5	
0+80			4.8	6.8	
1+20			2.4	9.2	

Sta W119+00 - N 36+00

Sta	+	HI	−	Elev
	4.98	11.43		6.45
5000			5.1	6.3
0+45			5.0	6.4
0+93			4.9	6.5
1+30			4.9	6.5
1+39			1.0	10.4

8-22+00

PX Sta W 120+00 - N 35+00

Sta	+	HI	-	Elev	
0+00	4.77	11.22		6.45	T.P. 120+00
0+00			5.1	6.1	
S 0+45			5.0	6.2	
S 0+92			4.8	7.4	
S 155			4.8	7.4	
S 163			3.1	8.1	

Sta W 121+00 N 35+00

Sta	+	HI	-	Elev	
	4.86	11.31		6.45	T.P. 120+00
0+00			5.2	6.1	
S 0+41			5.2	6.1	
S 0+95			4.6	6.7	
S 104			2.0	9.3	
S 117			1.7	9.6	

PY Sta W 122+00 N 35+00

Sta	+	HI	-	Elev	
	4.59	11.04		6.45	T.P. Sta 120+00
0+00			5.0	6.0	T.P. Sta 120+00
S 0+07			4.4	6.6	
S 0+18			4.3	6.7	
S 0+33			0.7	10.3	
S 0+49			1.1	9.9	N. Edge of Pad
S 0+86			1.4	9.6	
S 102			1.8	9.2	
S 112			4.5	6.5	
S 143			5.0	6.0	

Sta W 124+00 N 35+00

Sta	+	HI	-	Elev	
	3.88	11.83		7.95	Water Pipe
0+00			5.1	6.7	
S 0+50			5.3	6.5	
S 1+00			5.7	6.1	
S 1+50			5.9	5.9	
S 1+75			5.7	6.1	

8-22-50

PX Sta W 123+00 - N 34+00

Sta	+	HI	−	Elev	
	3.59	11.54		7.95	T.P. 12" Water Line
N. 1+00			1.8	9.7	
N. 0+88			2.1	9.4	
N. 0+77			2.2	9.3	
N. 0+70			5.3	6.2	
S 0+00			5.1	6.4	
S 0+45			5.3	6.2	
S 0+82			5.3	6.2	
S					

PX Sta W 125+00 N. 35+00

8-22-50 (23)

Sta	+	HI	−	Elev	
	3.72	11.67		7.95	T.P. 12" Water Line
0+00			5.1	6.7	
S. 0+50			5.3	6.5	
S 0+92			5.5	6.3	
S 1+40			5.8	6.0	
S 1+89			5.8	6.0	
S 2+20			5.6	6.2	

8-22-50

PX Sta W 126+00 N 35+00

Sta	+	HI	−	Elev
1	2.60	10.55		7.95 (Water)
0+00			5.2	5.3
S 0+40			5.1	5.4
S 0+95			6.4	4.1
S 110			6.9	3.6
S. 125			6.9	3.6
S 146			6.0	4.5
S. 172			6.8	3.7
S. 190			0.0	10.5

Sta W 127+00 N 35+00 Sec South

Sta	+	HI	−	Elev
	1.35	11.70		10.35 (Top nail Sta 127+00)
0+00			5.2	6.5
S. 0+36			5.1	6.6
S 0+50			5.2	6.5
S. 0+62			6.2	5.5
S. 0+68			7.5	4.2
S. 118.			6.8	4.9

8-23-50 (39)

PX

Sta 127+00 W 35+00 N

Sta	+	HI	−	Elev
0+00		11.51		6.5
S 1+20			6.7	4.8
S 1+35			6.6	4.9
S 1+53			5.3	6.2
S 1+61			0.7	10.8
S 1+64			2.7	8.8
S 1+78			2.3	9.2

Page 21 ←

Sta W 128+00 N 35+00 sec South

PX

Sta	+	HI	−	Elev
T.P.	4.85	11.69		6.84 {128+00 / 35+00}
S 1+14			0.0	11.7
S 1+00			3.5	8.2
S 0+88			5.0	6.7
S 0+90			6.0	5.7
S 0+90			8.3	3.4
S 0+83			8.6 (63)	3.1
S 0+83			6.3 (63)	5.4
S 0+75			5.2	6.5
S 0+92			5.4	6.3
S 0+00			5.1	6.6

8-23-50 PX

N- 35+00

0+00 = {N-35+00 / W-128+00}

STA	+	H.I.	−	ELEV
		11.69		
E 1+00			5.2	6.5
E 0+50			5.2	6.5
0+00			5.1	6.6
W 0+29			5.2	6.5
W 0+46			4.8	6.9
W 0+51			5.4	6.3
W 0+53 2			6.8	4.9
W 0+55 2			7.5	4.2
W 0+64			7.4	4.3
W 0+66 2			6.8	4.9
W 0+74			5.9	5.8
W 0+87			5.8	5.9
W 0+98			6.8	4.9
W 1+01 3			7.6	4.1
W 1+50			7.3	4.4
W 1+54			6.6	5.1
W 1+75			0.2	11.5

8-23-50 (25) PX

STA - 129+00-W

0+00 = {N-36+00 / W-129+00}

SEC. SOUTH

STA	+	H.I.	−	ELEV
T.P	4.77	11.61		6.84
E 1+45			0.0	11.6
E 1+39			5.9	5.7
E 1+32			6.7	4.9
E 1+28			7.3	4.3
E 1+23			7.6	4.0
E 1+02			7.3	4.3
E 0+98			6.7	4.9
E 0+96			6.2	5.4
E 0+68			5.0	6.6

H₂O SEWER

PX

STA - 36+00-N

0+00 = (N-36+00, W-127+00) SEC. WEST

STA	+	H.I.	-	ELEV
T.P.	4.43	11.27		6.84
W-4+07			0.0	11.3
W-3+96			4.5	6.8
W-3+70			5.1	6.2
W-3+68			7.1	4.2
W-3+64			8.3	3.0
— SLOUGH —				
W-3+50		11.3	8.5	2.8
W-3+49			7.3	4.0
W-3+48			5.3	6.0
W-3+04			4.9	6.4
W-2+55			4.8	6.5
W-1+73			4.8	6.5
W-1+58			5.2	5.1
W-1+55			6.6	4.7
W-1+51			7.3	4.0
W-1+47			7.1	4.2
W-1+45			6.4	4.9

C. BARRAGAN
A. SHEPPAY
H. BROWN
W. CARVER

8-23-50

PX

36

5 - .7

N-36+00

STA	+	H.I.	-	ELEV
N-1+43		11.3	5.5	5.8
E-1+32			4.8	6.5
E-1+00			5.1	6.2
E-0+52			5.0	6.3
E+0+00			5.0	6.3
E+0+50			5.1	6.2
E+1+04			4.6	6.7
E+1+52			4.7	6.6
E+1+82			3.3	8.0
T.P.			2.53	8.74

S/E FOR CONCRETE ON 12" LINE 40' S of (125+00 W, 36+00 N)

0+00 = (125+00 W, 36+00 N) SEC EAST.

STA	+	H.I.	-	ELEV
T.P.	5.52	14.26		8.74
E+0+00			4.7	9.6
E+0+05			5.6	8.7
E+0+31			3.1	11.2
E+1+14			2.6	11.7
E+1+19			2.9	11.4
E+1+30			6.9	7.4
E+1+73			6.8	7.5

PX

N-36+00

STA	+	H.I.	−	ELEV
		14.26		
E-2+06			7.7	6.6
E-2+23			8.6	5.7
E-2+28			9.6	4.7
E-2+55			10.3	4.0
E-2+61			9.4	4.9
E-2+62			7.5	6.8
E-3+05			7.4	6.9
E-3+60			7.5	6.8
E-4+14			7.6	6.7
E-4+68			7.7	6.6
E-5+22			7.6	6.7
E-5+73			7.6	6.7
E-6+27			7.6	6.7
E 6+85			7.7	6.6

8-23-50

PX (27)

STA - N-37+00

STA	+	H.I.	−	ELEV	
		15.15		10.35	2"x3" 37+00N (127+00W)
T.B.M.	4.80				
[illegible]-5+21			4.5	10.6	Top manhole
[illegible]W 4+75			5.0	10.1	
[illegible]W 2+82			4.9	10.2	
[illegible]W 1+03			4.9	10.2	
[illegible]E 3+20			4.6	10.5	
[illegible]E 0+00			5.0	10.1	
[illegible]E 0+10			5.4	9.7	
[illegible]E 0+92			8.8	6.3	
[illegible]E 1+42			8.9	6.2	
[illegible]E 2+00			8.9	6.2	
[illegible]E 2+50			8.9	6.2	
[illegible]E 3+10			8.8	6.3	
[illegible]E 3+60			8.7	6.4	
[illegible]E 4+05			9.0	6.1	
[illegible]E 4+07 (7)			10.2	4.9	
[illegible]E 4+13 (6)			10.8	4.3	
[illegible]E 4+28			10.3	4.8	
[illegible]E 4+31 (5)			9.7	5.4	

PX

N 37+00

Sta	+	Hi	−	Elev
E 4+35 ④		15.15	9.0	6.1
E 4+90			8.8	6.3
E 5+40			8.6	6.5
E 6+00			8.6	6.5
E 6+65			8.5	6.6
E 7+40			8.5	6.6
E 8+05			8.6	6.5
E 8+85			8.9	6.2

8-23-50 (28)

N 17+00 W 127+00 PX

Sta	+	Hi	−	Elev	
TP	5.07	11.77		6.70	10 ft East {46+00 N 127+00 W}
W 0+00			4.9	6.9	
W 0+50			5.3	6.5	
W 1+05			5.3	6.5	
W 1+55			5.3	6.5	
W 2+15			5.5	6.3	
W 2+70			5.6	6.2	
W 3+25			5.6	6.2	
W 3+75			5.5	6.3	
W 4+35			5.8	6.0	
W 4+90			6.1	5.7	
W 5+45			5.9	5.9	
W 6+05			5.9	5.9	
W 6+65			5.9	5.9	
W 7+25			6.2	5.6	
W 7+75			6.3	5.5	
W 8+40			6.3	5.5	
W 9+00			6.3	5.5	
W 9+65			6.5	5.3	

N 47+00 W 127+00

Sta	+	H.I.	−	Elev
2		11.77	9.4	2.4

8-23-50 (29)

PX

N 48+00 W 127+00

10 ft East 48+00 N 127+00 W

Sta	+	H.I.	−	Elev
TP	4.54	11.24		6.70
				-8
W 10+68			8.4	2.8
W 10+66			6.4	4.8
W 10+34			6.1	5.1
W 9+86			5.7	5.3
W 9+20			6.0	5.2
W 8+75			5.7	5.5
W 8+70			5.7	5.5
W 7+63			5.7	5.5
W 7+10			5.6	5.6
W 6+65			5.4	5.8
W 6+10			5.4	5.8
W 5+55			5.3	5.9
W 5+00			5.0	6.2
W 4+45			4.9	6.3
W 3+85			4.8	6.4
W 3+30			4.7	6.5
W 2+75			4.8	6.4

8-23-50

PX N 48+00 W 127+00

Sta	+	Hi	−	Elev
W 2+22		11.24	4.7	6.5
W 1+65			5.0	6.2
W 1+10			5.0	6.2
W 0+45			4.8	6.4
0+00			5.0	6.2
E 0+44			5.5	5.7
E 0+85			5.9	5.3
E 1+20			5.2	6.0
E 1+60			5.3	5.9
E 2+05			6.5	4.7
E 2+58			6.3	4.9
E 2+65			4.9	6.3
E 3+20			5.1	6.1
E 4+00			5.8	5.4
E 4+56			5.7	5.5
E 5+00			6.0	5.2
E 5+60			5.8	5.4
E 6+25			5.3	5.9
E 6+75			5.1	6.1

N 48+00 W 127+00 PX

Sta	+	Hi	−	Elev
E 6+90		11.24	4.2	7.0
E 7+00			5.1	6.1
E 7+77			5.1	6.1
E 8+34			4.9	6.3
E 8+08			4.7	6.5
E 9+64			5.0	6.2
E 10+22			4.9	6.3
E 10+87			4.8	6.4

8-23-50

PX N 98+00 W 127+00

Sta	+	Hi	−	Elev
T.P	4.75	11.45		6.70
E 12+40			5.0	6.4
E 11+54			5.1	6.3
E 11+00			4.9	6.5
E 10+27			4.9	6.5
E 9+60			5.0	6.4
E 8+90			5.3	6.1
E 8+52			5.3	6.1
E 8+37			5.4	6.0
E 7+80			4.4	7.0
E 7+72			1.7	9.7
E 7+61			4.3	7.1
E 7+10			5.7	5.7
E 6+50			4.6	6.8
E 5+85			4.4	7.0
E 5+20			4.6	6.8
E 4+50			4.7	6.7
E 3+80			5.1	6.3
E 3+10			4.7	6.7

8-23-50 (31)

N 98 +00 W 127+00 PX

Sta	+	Hi	−	Elev
E 2+70		11.45	5.2	6.2
E 2+55			6.8	4.6
E 2+40			5.6	5.8
E 1+80			5.4	6.0
E 1+05			5.5	5.9
E 0+71			7.9	3.5
E 0+55			5.5	5.9
E 0+37			5.3	6.1
0+00			4.9	6.5

8-24-50

PX

89+00N

0+00 = {89+00N / 130+00W

Dist	Sound		Dist	Sound	
0+00	8.8	6.0	(2.8)	9.9	7.1
(1:50)	8.5	5.7		10.2	7.4
(2.8)	8.2	5.4	2+00	10.3	7.5
	8.0	5.2		10.2	7.4
	8.0	5.2		11.3	8.5
+50	8.0	5.2		11.7	8.9
	8.2	5.4		12.2	9.4
	8.7	5.9	+50	12.5	9.7
	8.8	6.0		13.2	10.4
	8.5	5.7		13.5	10.7
1+00	8.0	5.2		14.3	11.5
	8.5	5.7		15.6	12.8
	8.0	5.2	3+00	16.8	14.0
	8.3	5.5		17.0	14.2
	8.4	5.6		17.2	14.4
+50	8.7	5.9		17.8	15.0
	8.9	6.1		18.1	15.3
	9.4	6.6	+50	18.4	15.6

8-24-50

89+00N

PX

(32)

Dist	Sound		Dist	Sound	
3+60	17.9	15.1	20	8.3	5.6
(2.8)	16.8	14.0	(2.7)	8.2	5.5
	15.8	13.0		8.3	5.6
	15.0	12.2	0+50	8.0	5.3
4+00	14.6	11.8		8.0	5.3
	13.7	10.9		8.1	5.4
	12.6	9.8		7.2	4.5
	12.0	9.2		7.1	4.4
	11.0	8.2	1+00	7.0	4.3
+50	9.5	6.7		6.8	4.1
	7.0	4.2		6.3	3.6
	3.0	0.2		6.8	4.1
(5.5)	1.9	+0.9		7.0	4.3
	1.5	+1.3	+50	7.0	4.3
5+00	1.0	+1.8		6.5	3.8
	1.0	+1.8		6.5	3.8
Sound west				6.3	3.6
(2.7) 0+00				6.1	3.4
1+10	8.9	6.2	2+00	6.0	3.3

PX 8-24-50 89+00 N Southwest

Dist	Sound		Dist	Sound	
2+10	6.0	3.3	4+00	7.3	4.6
(2.7)	6.1	3.4	(2.7)	7.2	4.5
	6.0	3.3		7.2	4.5
	6.2	3.5		7.7	5.0
+50	6.2	3.5		7.6	4.9
	5.9	3.2	+50	7.9	5.2
	6.0	3.3		8.0	5.3
	6.3	3.6	(2.105)	8.2	5.5
	6.5	3.8		8.4	5.7
3+00	6.0	3.3		8.5	5.8
	6.8	4.1	5+00	8.7	6.0
	6.7	4.0		9.1	6.4
	6.9	4.2		9.0	6.3
	6.8	4.1		9.3	6.6
+50	6.6	3.9		9.4	6.7
	7.0	4.3	+50	9.3	6.6
	6.7	4.0		9.5	6.8
	6.8	4.1		9.6	6.9
+90	7.2	4.5	+80	9.7	7.0

89+00 N PX

Dist	Sound	
5+90	9.7	7.0
6+00	9.8	7.2
(2.7)	10.0	7.3
	10.0	7.3
	9.5	6.8
	9.2	6.5
+50	9.0	6.3
	8.1	5.4
	6.9	4.2
	6.0	3.3
	5.0	2.3
+00	4.3	1.6
	3.9	1.2
	2.5	+0.2
(2.0)	2.0	+0.7
+10	0.2	+2.5

8-24-50

PX

88+00 N

0+00 = {88+00N / 130+00W}

Dist	Sound		Dist	Sound	East
0+00	10.9	8.1	2.8	18.1	15.3
2.25	10.9	8.1		18.0	15.2
2.8	10.9	8.1	2+00	18.0	15.2
	12.0	9.2		18.1	15.3
	12.1	9.3		17.9	15.1
+50	12.5	9.7		17.9	15.1
	12.9	10.1 ~~9.6~~		17.3	14.5
	12.9	10.1	+50	15.4	12.6
	13.0	10.2		14.5	11.7
	13.2	10.4		13.8	11.0
1+00	14.0	11.2		13.2	10.4
	14.7	11.9		12.9	10.1
	15.1	12.3	3+00	11.3	8.5
	15.9	13.1		10.1	7.3
	16.5	13.7		9.0	6.2
+57	17.1	14.3		8.9	6.1
	18.0	15.2		7.3	4.5
	18.3	15.5	+50		

8-24-50

88+00 N

PX

34

Dist	Sound		Dist	Sound	
2.8	5.6	2.8	2.8	10.6	7.8
	2.9	0.1	1+00	10.3	7.5
	2.3	+0.5		10.2	7.4
	1.8	+1.0		10.1	7.3
4.00	1.1	+1.7		10.1	7.3
	1.0	+1.8		10.0	7.2
	1.1	+1.7	+50	10.0	7.2
2.0	0.7	+2.1		9.8	7.0
2.40	0.5	+2.3		9.9	7.1
Sound west				9.9	7.1
2+00				10.0	7.2
2.35	10.4	7.6	2+00	9.8	7.0
	10.1	7.3		9.8	7.0
	9.9	7.1		9.7	6.9
	10.3	7.5		9.5	6.7
+57	10.4	7.6		9.0	6.2
	10.9	8.1	+50	8.8	6.0
	10.9	8.1		8.8	6.0
	10.8	8.0	+70	8.7	5.9

8-24-50

PX

86+00N

Dist	Sound		Dist	Sound	
2+80	8.5	5.7	4+70	7.6	4.7
(2.8)	8.2	5.4	(2.9)	7.5	4.6
3+00	8.1	5.3		7.7	4.8
	8.0	5.2	5+00	8.0	5.1
	7.7	4.9		8.0	5.1
	7.2	4.4		7.8	4.9
	7.2	4.4		8.3	5.4
+50	7.5	4.7		8.3	5.4
	7.5	4.7	+50	8.5	5.6
	7.0	4.2		8.8	5.9
	7.2	4.4		8.9	6.0
	7.4	4.6		9.2	6.3
4+00	7.5	4.7		9.8	6.9
(2.9)	7.2	4.3	6+00	9.5	6.6
(2.40)	7.0	4.1		9.6	6.7
	7.0	4.1		9.7	6.8
	7.0	4.1		9.9	7.0
+50	7.1	4.2		9.8	6.9
	7.3	4.4	+50	10.3	7.4

8-24-50

88+00N

PX

(35)

Dist	Sound		Dist	Sound	
6+60	10.4	7.5	(2.9) 8+50	0.3	+2.6
(2.9)	10.8	7.9	(2.45)		
	11.0	8.1			
	11.3	8.4			
7+00	11.4	8.5			
	11.5	8.6			
	11.9	9.0			
	11.5	8.6			
	11.2	8.3			
+50	11.0	8.1			
	10.2	7.3			
	9.8	6.9			
	8.8	5.9			
	7.7	4.8			
8+00	7.0	4.1			
	6.0	3.1			
	5.2	2.3			
	2.5	+0.4			
+40	1.5	+1.4			

PX

8-25-50

85+00 N

0+00 = {85+00N / 141+00W}

Dist	Sound		Dist	Sound		Dist	Sound		Dist	Sound	
0+00			1+80	11.5	9.1	3+60	7.5	5.1	5+50	7.7	5.3
0+16	0.0	+2.4		11.3	8.9		7.5	5.1		7.7	5.3
+20	0.9	+1.5	2+00	11.0	8.6		7.3	4.9		7.7	5.3
2.4	2.5	0.1	2.4	10.8	8.4	4+00	7.5	5.1		7.8	5.4
	5.3	2.9		10.8	8.4	2.4	7.4	5.0		7.9	5.5
+50	6.5	4.1		10.8	8.4		7.3	4.9	6+00	7.6	5.2
	7.6	5.2		10.8	8.4		7.2	4.8		8.1	5.7
	8.0	5.6	+50	10.7	8.3		7.4	5.0		8.2	5.8
	10.2	7.8		9.9	7.5		7.7	5.3	2.4	8.2	5.8
	11.1	8.7		9.0	6.6	+50	7.4	5.0	2.20	8.3	5.9
1+00	11.4	9.0		9.1	6.7		7.3	4.9	+50	8.2	5.8
	11.8	9.4		9.1	6.7		7.4	5.0		8.2	5.8
	12.0	9.6	3+00	9.0	6.6		7.4	5.0		8.2	5.8
	11.9	9.5		8.6	6.2		7.5	5.1		8.3	5.9
	11.5	9.1		7.9	5.5	5+00	7.4	5.0		8.4	6.0
+50	11.6	9.2		8.0	5.6		7.3	4.9	7+00	8.6	6.2
	11.7	9.3		8.0	5.6		7.7	5.3		8.7	6.3
+70	11.7	9.3	+50	8.0	5.6	+40	7.4	5.0		8.8	6.4
							8.0	5.6	7+30	8.8	6.4

8-25-50

85+00 N

PX (36)

PX 8-25-50 85+00 N

Dist	Sound		Dist	Sound	
7+40	9.0	6.6	9+30	9.2	6.8
+50	9.1	6.7		9.0	6.6
	9.1	6.7	+50	8.7	6.3
	9.1	6.7		8.1	5.7
	9.1	6.7		7.7	5.3
	9.0	6.6		6.9	4.5
8+00	9.4	7.0		6.2	3.8
	9.1	6.7	10+00	5.1	2.7
(2.4)	9.3	6.9		4.5	2.1
	9.3	6.9	(2.4)	3.8	1.4
	9.3	6.9		3.1	0.7
+50	9.4	7.0		2.9	0.5
	9.3	6.9	+50	3.1	0.7
	9.4	7.0		2.5	0.1
	9.6	7.2		1.7	+0.7
	9.7	7.3		1.5	+0.9
9+00	9.3	6.9		1.1	+1.3
	9.3	6.9	11+00	1.0	+1.4
+20	9.2	6.8	+10	1.0	+1.4

8-25-50 85+00 N (37) PX

Dist	Sound				
11+20	0.9	+1.5	13+10	1.3	+1.1
	1.0	+1.4		1.2	+1.2
	0.9	+1.5		1.4	+1.0
+50	0.9	+1.5		1.3	+1.1
	1.0	+1.4	+50	1.2	+1.2
	1.0	+1.4		1.1	+1.3
	1.1	+1.3		1.2	+1.2
[illegible]	1.1	+1.3		1.0	+1.4
12+00	1.2	+1.2		0.7	+1.7
	1.2		14+00	0.5	+1.9
(2.4)	1.2		(2.4)	0.5	+1.9
	1.2			0.4	+2.0
[illegible]	1.2	+1.2		0.0	+2.4
+50	1.3	+1.1	(2.30)	+0.2	+2.6
(2.25)	1.2	+1.2	+50	+0.6	+3.0
	1.3	+1.1			
	1.3	+1.1			
	1.2	+1.2			
13+00	1.3	+1.1			
			15+00		

8-25-50

PX

86+00N

0+00 = {86+00N / 140+00W}

Dist	Sound		Dist	Sound	
0+00			1+80	10.8	8.4
+13	0.0	+2.4		10.6	8.3
(2:45) +20	0.9	+1.5	2+00	10.3	7.9
(2.4)	1.9	+0.5		10.2	7.8
	2.9	0.5	(2.4)	10.1	7.7
+50	4.7	2.3		10.5	8.1
	6.1	3.7		10.0	7.6
	6.9	4.5	+50	10.2	7.8
	8.2	5.8		10.1	7.7
	9.1	6.7		9.9	7.5
1+00	10.2	7.8		9.3	6.9
	10.5	8.1		9.3	6.9
	10.9	8.5	3+00	9.4	7.0
	11.0	8.6		9.1	6.7
	11.0	8.6		8.3	5.9
+57	11.0	8.6		8.4	6.0
	10.8	8.4		8.3	5.9
+70	10.9	8.5	+57	7.7	5.3

8-25-50

86+00W

(38)

PX

Dist	Sound		Dist	Sound	
3+60	7.0	4.6	5+50	8.1	5.7
	7.3	4.9		8.1	5.7
	7.7	5.3		8.2	5.8
	7.4	5.0		8.3	5.9
4+00	7.2	4.8		8.4	6.0
	7.2	4.8	6+00	8.5	6.1
(2.4)	7.3	4.9		8.7	6.3
	7.3	4.9	(2.4)	9.0	6.6
	7.1	4.7	(2:50)	8.8	6.4
+50	7.0	4.6		8.8	6.4
	7.3	4.9	+50	8.9	6.5
	7.4	5.0		8.6	6.2
	7.4	5.0		8.7	6.3
	7.5	5.1		8.9	6.5
5+00	7.2	4.8		9.2	6.8
	7.6	5.2	7+00	9.0	6.6
	7.7	5.3		9.0	6.6
	7.7	5.3		9.0	6.6
+40	7.8	5.4	+30	8.9	6.5

8-25-50

PX

86+00 N

Dist	Sound		Dist	Sound		Dist	Sound	
7+40	9.0	6.6	9+30	10.2	7.8	11+20	6.0	3.6
+50	9.3	6.9		10.3	7.9	(2.4)	5.8	3.4
	9.4	7.0	+50	10.5	8.1		5.7	3.3
	9.5	7.1		10.5	8.1	+50	5.2	2.8
(2.4)	9.5	7.1	2:55	10.3	7.9		4.0	1.6
	9.4	7.0	(2.4)	10.0	7.6		3.9	1.5
8+00	9.3	6.9		9.5	7.1		2.9	0.5
	9.4	7.0	10+00	9.5	7.1		2.4	0.0
	9.3	6.9		9.2	6.8	12+00	2.0	+0.4
	9.4	7.0		9.1	6.7		1.8	+0.6
	9.4	7.0		8.8	6.4		1.8	+0.6
+50	9.5	7.1		8.5	6.1		1.5	+0.9
	9.5	7.1	+50	8.2	5.8		1.3	+1.1
	9.6	7.2		7.8	5.4	+50	0.2	+2.2
	9.7	7.3		7.3	4.9		0.6	+1.8
	9.8	7.4		7.0	4.6	(2.4)	0.2	+2.2
9+00	9.8	7.4		7.0	4.6		0.1	+2.3
	9.9	7.5	11+00	6.9	4.5	(3:00)	+0.1	+2.5
+20	10.1	7.7	+10	6.3	3.9	13+20	+0.1	+2.5

8-25-50

86+00 N

(39)

PX

8-25-50

PX

N- 87+00

0+00 = (N- 87+00 / W- 140+00)

DIST	SOUND		DIST	SOUND	
0+00			2+80	11.2	8.7
1+15	0.0	+2.5		11.2	8.7
20	0.4	+2.1	3+00	10.9	8.4
(3:15)	1.0	+1.5		10.5	8.0
	1.7	+0.8		10.0	7.5
1+50	3.1	0.6	(2.5)	10.0	7.5
(2.5)	6.1	3.6		10.1	7.6
	6.4	3.9	50	10.0	7.5
	7.2	4.7		10.0	7.5
	8.2	5.7		9.8	7.3
2+00	8.9	-6.4		9.8	7.3
	9.2	6.7		9.4	6.9
	10.2	7.7	4+00	8.7	6.2
	10.8	8.3		8.2	5.7
	11.1	8.6		8.0	5.5
50	11.1	8.6		8.1	5.6
	11.2	8.7		8.3	5.8
2+70	11.3	8.8	4+50	8.2	5.7

8-25-50

N- 87+00

(40)

PX

DIST	SOUND		DIST	SOUND	
4+60	8.2	5.7	6+50	7.7	5.2
	7.8	5.3		7.8	5.4
(2.5)	7.1	4.6	(3:20)	8.0	5.5
	7.2	4.7	(2.5)	8.0	5.5
5+00	7.0	4.5		8.1	5.6
	7.0	4.5	7+00	8.1	5.6
	6.9	4.4		8.3	5.8
	7.0	4.5		8.5	6.0
	7.0	4.5		8.7	6.2
50	7.0	4.5		8.9	6.4
	6.9	4.4	+50	9.0	6.5
	7.0	4.5		9.1	6.6
	7.2	4.7		9.2	6.7
	7.0	4.5		9.3	6.8
6+00	7.2	4.7		9.4	6.9
	7.4	4.9	8+00	9.7	7.2
	7.2	4.7		9.8	7.3
	7.2	4.7		9.8	7.3
6+70	7.1	4.6	8+30	9.7	7.2

PX 8-25-50 87+00N

Dist	sound		Dist	sound	
8+00	10.0	7.5	10+30	11.7	9.2
+50	10.0	7.5		12.0	9.5
	10.1	7.6	+50	12.4	9.9
(2.5)	10.0	7.5		12.8	10.3
	10.0	7.5	(2.5)	12.9	10.4
	9.8	7.3		13.2	10.7
9+00	10.0	7.5		13.8	11.3
	10.0	7.5	11+00	14.2	11.7
	10.1	7.6		14.8	12.3
	10.1	7.6		15.0	12.5
	9.9	7.4		15.2	12.7
+50	9.7	7.2		15.1	12.6
	9.7	7.2	+50	15.3	12.8
	9.8	7.3		15.8	13.3
	10.2	7.7		16.5	14.0
	10.7	8.2		17.0	14.5
10+00	10.9	8.4		16.9	14.4
	11.0	8.5	12+00	16.8	14.3
+20	11.2	8.7	+10	16.0	13.5

8-25-50 87+00N PX (41)

Dist	sound		Dist	sound	
12+20	14.9	12.4	14+10	0.5	+2.0
	13.8	11.3		0.4	+2.1
(3:20)	13.3	10.8	(2.5)	0.2	+2.3
+50	13.3	10.8		0.2	+2.3
(2.5)	13.0	10.5	+50	0.1	+2.4
	11.8	9.3	+60	0.0	+2.5
	9.9	7.4	(3:30) +70	+0.1	+2.6
	9.3	6.8			
13+00	7.7	5.2			
	5.5	3.0			
	4.4	1.9			
	3.0	0.5			
	2.8	0.3			
+50	2.2	+0.3			
	2.0	+0.5			
	1.5	+1.0			
	1.0	+1.5			
	0.6	+1.9			
14+00	0.4	+2.1			

9.1 (9.2)

STA- 73+00-N

0+00 = {N-73+00 / W-140+00} Pick up On STA-73+00 Sec West

DIST + Ht. - ELEV

PX

N- 70+00

0+00 (N-70+00 / W-140+00) Sec East & West

Dist	+	H.I.	−	Elev
Water Lev.	5.15	9.55		4.4
W-390			5.4	4.1
W 383			5.1	4.4
W 340			4.6	4.9
W 290			4.7	4.8
W 240			4.4	5.1
W 185			4.3	5.2
W 130			4.0	5.5
W 0+75			5.2	4.3
W 0+70			5.7	3.8
W 0+52			5.7	3.8
W 0+25			5.3	4.2
0+00			5.0	4.5
E 0+20			5.2	4.3
E 0+23			5.5	4.0
E 0+46			5.2	4.3
E 0+98			4.7	4.8

(44)

8-29-50

Water 5.05

N. 70+00 PX

Sta	+	H.I.	−	Elev
E 116		9.55	5.0	4.5
E 118			5.8	3.7
E 140			8.9	0.6
E 163			6.5	3.0
E 168			5.1	4.4
E 215			4.2	5.3
E 272			4.3	5.2
E 330			4.3	5.2
E 390			4.1	5.4

Surface @ 03:45

PX

N - 69+00

0+00 = (N-69+00 / W-140+00) Sec E. & W.

D. ST	+	H.I.	−	ELEV
	4.7			4.8
WATERLEV	5.87	9.5		4.7
E. 445			4.0	5.5
E- 380			4.2	5.3
E- 325			4.6	4.9
E- 270			5.0	4.5
E- 240			5.3	4.2
E- 225			5.8	3.7
E- 210			6.9	2.6
E- 195			6.5	3.0
E- 175			6.1	3.4
E- 155			5.0	4.5
E 102			4.8	4.7
E 0+53			4.6	4.9
E 0+20			4.5	5.0
0+00			5.0	4.5
W 0+28			5.4	4.1

SURFACE @ 10:00

N. 69+00 Water 4.70 PX (45)

Sta	+	H.I.	−	Elev.
W 0+60		9.5	4.7	4.8
W 115			4.0	5.5
W 175			4.2	5.3
W 230			4.1	5.4
W 285			4.2	5.3
W 340			4.3	5.2
W 390			4.3	5.2
W 430			4.4	5.1
W 434			4.9	4.6
W 450			5.9	3.6
W 475			6.1	3.4

0+00 = W 140+00 N. 68+00 Water 4.0

PX

Sta	+	HI	-	Elev
W	4.08	8.88		4.8
W 4+30			4.9	4.0
W 427			3.9	4.9
W 375			3.8	5.1
W 322			3.5	5.4
W 270			3.5	5.4
W 215			3.4	5.5
W 160			3.2	5.7
W 100			3.4	5.5
W 0+65			3.4	5.5
W 0+61			2.9	6.0
W 0+30			4.1	4.8
W 0+22			4.1	4.8
W 0+15			5.1	3.8
0+00			4.7	4.2
E 0+15			4.7	4.2
E 0+30			4.0	4.9
E 0+36			3.4	5.5

N. 68+00

PX

(76)

Sta	+	HI	-	Elev
E100		8.88	3.8	5.1
E150			3.7	5.2
E205			4.2	4.6
E222			4.4	4.5
E231			4.1	4.8
E270			4.0	4.9
E295			3.6	5.3
E365			3.9	5.0
E415			4.3	4.6
E435			4.2	4.7
E438			4.7	4.2
E455			4.6	4.3
E478			4.4	4.5
E495			4.7	4.2
E515			4.0	4.9
E555			3.6	5.3
E610			3.7	5.2
E				

PX

N. 67+00

Sta	+	HI	−	Elev
E630		10.05	5.1	4.9
E590			5.1	4.9
E570			4.4	5.6
E562 8			5.2	4.8
E551 11			4.4	5.6
E531			5.1	4.9
E480			5.0	5.0
E430			4.8	5.2
E370			4.4	5.6
E315			4.5	5.5
E255			5.0	5.0
E190			4.3	5.7
E130			4.3	5.7
E 0+70			4.2	5.8
E 0+46 6			5.1	4.9
E 0+42			6.3	3.7
E 0+30			7.4	2.6
E 0+12 4			6.4	3.6
0+06			5.1	4.9

0+00 = W 140+00

Sta N 67+00

PX (77)

Sta	+	HI	−	Elev
0+00	4.7	10.05	5.0	5.35 5.0
W 0+46			4.7	5.3
W 0+70			4.5	5.5
W 125			4.7	5.3
W 185			4.6	5.4
W 240			4.9	5.1
W 288			4.9	5.1
W 294 6			5.6	4.4
N				
W				
W				
W				

PX

N. 66+00

Sta	+	HI	−	Elev
PT. 270E 140+00 D/L				
0+00 =	N. 66+00	W 137+30		
WATERLEV	4.27	9.77		5.5
0+00			4.9	4.9
E 0+40			4.6	5.2
E 100			4.3	5.5
E 165			4.2	5.6
E 220			4.1	5.7
E 283			4.4	5.4
E 298			3.5	6.3
E 318			4.0	5.8
E 370			3.9	5.9
E 430			3.5	6.3

Sta < 270'E SURFACE @ 10'S

0+00 = W 140+00

8-29-70

(48)

PX

Sta N. 63+00

Sta	+	HI	−	Elev	Tide
	4.63	10.18		5.5	
E 570			5.1	5.1	
E 535			5.2	5.0	
E 500			5.3	4.9	
E 494			5.7	4.5	
E 487			7.6	2.6	
E 465			9.5	0.7	
E 440			7.7	2.5	
E 430			5.3	4.9	
E 426			4.7	5.5	
E 380			4.6	5.6	
E 320			4.7	5.5	
E 270			4.6	5.6	
E 215			4.8	5.4	
E 163			5.0	5.2	
E 110			5.2	5.0	
E 0+70			5.1	5.1	
E 0+33			5.0	5.2	
0+00			5.0	5.2	

PX

8-29-50 (49)

0+00 = W 140+00

Sta 63+00

Sta	+ S1	HI	−	Elev.
W 0+35		10.18	5.1	5.1
W 0+75			5.5	4.7
W 0+79			6.2	4.0
W 0+84			6.7	3.5
W 0+95			8.8	1.4
W 108			8.7	1.5
W 130			7.7	2.5
W 140			5.6	4.6
W 147			6.2	4.0
W 153			7.5	2.7
W 160			6.3	3.9
W 177			5.5	4.7
W 210			5.1	5.1
W 280			5.3	4.9
W 322			5.6	4.6
W 324 +2			6.8	3.4
W 326 +2			8.9	1.3
W 345			8.9	1.3

Sta 63+00

PX

Sta	+	HI	−	Elev.
		10.18		
W 355			8.9	1.3
W 365 +6			6.3	3.9
W 371			5.4	4.8
W 410			5.3	4.9
W 465			5.3	4.9
W 510			5.3	4.9
W 530			5.4	4.8
W 542			5.7	4.5
W 580			5.1	4.1
W 585 +5			4.6	5.6

8-30-50

PX

Sta 76+00 N

0+00 = {76+00N west curb B/L

"Causeway"

Sta	+	Hi	−	Elev
B.M.	6.67	17.50		10.83
East Gutter			5.25	12.25
" Curb			4.68	12.82
E 0+55			4.7	12.8
E 0+58 (3)			6.1	11.4
E 0+66			12.2	5.3
E 0+71			13.8	3.7

8-30-50

PX

(50)

Sta 77+00 N

0+00 = {77+00N west curb B/L

"Causeway"

Sta	+	Hi	−	Elev
BM	4.33	15.76		10.83
East Gutter			5.68	10.08
Curb			5.03	10.73
E 0+68			5.1	10.7
E 1+07			4.7	11.1
E 1+36			5.7	10.1
E 1+38 (2)			8.2	7.6
E 1+45 (1)			10.2	5.6
E 1+54			12.0	3.8

8-30-50

PX

78+00 N

0+00 = {78+00 N west curb B/L

Sta	+	Hi	−	Elev	
B.M	5.01	15.84		10.83	"Causeway"
East Gutter			5.05	10.79	
" Curb			4.56	11.28	
E 0+75			5.2	10.6	
E 1+10			4.8	11.0	
E 1+50			5.1	10.7	
E 2+11			4.2	11.6	
E 2+30			4.5	11.3	
E 2+40			9.6	6.2	
E 2+53			12.0	3.8	

79+00 N

8-30-50

PX

(51)

0+00 = {79+00 N west curb B/L)

Sta	+	Hi	−	Elev	
B.M.	4.94	15.77		10.83	"Causeway" Lamp Post 4619
T.P.			4.45	11.32	
E 3+40			10.3	5.5	
E 3+27			4.1	11.7	
E 2+65			4.2	11.6	
E 1+58			5.6	10.2	
E 1+09			4.6	11.2	
E 0+75			4.7	11.1	
East curb			4.56	11.21	
East gutter			5.13 ~~5.40~~	10.64	

8-30-50

80+00 N

PT

0+00 = {80+00 N west curb B/c

Sta	+	Hi	−	Elev	
T.P.	4.67	15.99		11.32	Lamp Post 4619
East gutter			5.50	10.49	
" Curb			4.84	11.15	
E 0+85			4.6	11.4	
E 1+30			4.6	11.4	
E 2+00			5.8	10.2	
E 2+75			6.1	9.9	
E 3+75			4.6	11.4	
E 4+10			5.6	10.4	
E 4+28			10.2	5.8	
E 4+37			12.0	4.0	

81 +00 N

8-30-50

PT

0+00 = {81+00 N west curb B/c

Sta	+	Hi	−	Elev	
T.P.	4.77	16.09		11.32	Lamp post 4619
E 5+20			12.0	4.1	
E 5+05			8.8	7.3	
E 4+90			6.3	9.8	
E 4+30			6.2	9.9	
E 3+70			6.0	10.1	
E 2+35			6.4	9.7	
E 1+60			6.6	9.5	
E 1+10			6.0	10.1	
E 1+01			5.2	10.9	
E 0+68			4.5	11.6	
East Curb			4.79	11.30	
East gutter			5.43	10.66	

PX

82+00 N

0+00 = { 82+00 N west curb B/L

Sta	+	H_i	−	Elev	
T.P.	4.90	16.22		11.32	Ramp Post 4619
East gut			5.45	10.77	
Curb			4.85	11.37	
E 0+83			5.2	11.0	
E 0+94			6.5	9.7	
E 1+65			6.7	9.5	
E 2+35			6.8	9.4	
E 3+33			6.8	9.4	
E 4+50			5.7	10.5	
E 5+02			6.1	10.1	
E 5+20			9.6	6.6	
E 5+40			11.7	4.5	

PX

83+00 N 8-30-50

0+00 = { 83+00 N west curb B/L

Sta	+	H_i	−	Elev	
T.P.	4.95	16.27		11.32	Lamp Post 4619
4+65			11.5	4.8	
4+53			8.5	7.8	
4+33			5.0	11.3	
3+75			5.2	11.1	
3+48			6.4	9.9	
2+75			6.3	10.0	
1+95			7.0	9.3	
1+20			6.7	9.6	
0+70			4.8	11.5	
East curb			4.82	11.45	
" gutter			5.42	10.85	15' South Lamp Post 4625
T.P			4.92	11.35	

PX

84+00 N 8-30-50

0+00 = {84+00 N west curb B/L

Sta	+	Hi	−	Elev	15' south Lamp Post 4625
T.P.	4.89	16.24		11.35	
East gutter			5.40	10.84	
East curb			4.79	11.45	
0+82			5.3	10.9	
1+05			6.5	9.7	
1+70			7.0	9.2	
2+30			6.4	9.8	
2+85			6.1	10.1	
3+35			6.0	10.2	
3+65			5.2	11.0	
3+76 (5)			4.1	12.1	
3+90			8.9	7.3	
4+00			11.3	4.9	

85+00 N 8-30-50

PX

0+00 = {85+00 N west curb B/L

Sta	+	Hi	−	Elev	15' south Lamp Post 4625
T.P	4.86	16.21		11.35	
4+30			11.6	4.6	
4+25			11.2	5.0	
4+10			8.6	7.6	
3+80 (7)			3.9	12.3	
3+73			5.6	10.6	
3+30			7.5	8.7	
2+80			7.4	8.8	
2+30			6.7	9.5	
1+80			7.0	9.2	
1+28			6.6	9.6	
0+80			5.2	11.0	
East curb			4.82	11.39	
" gutter			5.44 ~~4.44~~	~~11.77~~ 10.77	

PX

86+00 N 8-30-50

0+00 = {86+00 N / west curb B/L

Sta	+	Hi	−	Elev	
T.P.	4.66	16.01		11.35	15' South Lamp Post #4625
Gut			5.34	10.67	
cb.			4.74	11.27	
0+70			4.6	11.4	
1+20			6.0	10.0	
1+83			6.5	9.5	
2+67			7.1	8.9	
3+46			8.6	7.4	
4+00			7.8	8.2	
4+55			6.8	9.2	
5+05			6.6	9.4	
5+15			5.7	10.3	
5+46			9.0	7.0	
5+57			11.1	4.9	

Sta. 87+00 N 8-30-60

0+00 = {87+00 N / West curb B/L}

PX (55)

Sta.	+	H.I.	−	Elev.	
T.P.	4.28	15.63		11.35	15' South Lamp Post #4625
6+34			10.5	5.1	
6+10			8.2	7.4	
6+02			6.2	9.4	
5+83			8.2	7.4	
5+00			9.1	6.5	
4+10			8.8	6.8	
3+55			8.8	6.8	
3+00			8.2	7.4	
2+55			7.4	8.2	
2+18			6.1	9.5	
1+82			5.9	9.7	
1+31			4.7	10.9	
0+90			4.6	11.0	
0+64			4.3	11.3	
East curb			4.55	11.08	
East Gut			5.08	10.55	
T.P.			4.51	11.12	opposite Bus. Stop. East curb.

PX

Sta. 88+00 N 8-30-50

0+00 = {88+00 N West curb B/L}

Sta.	+	H.I.	−	Elev.	
TP	4.40	15.52		11.12	OPP. BUS stop East curb
East gutter			5.35	10.17	
East curb			4.53	10.99	
1+00			4.8	10.7	
1+30			5.9	9.6	
1+70			5.8	9.7	
2+50			7.2	8.3	
3+20			7.1	8.4	
3+75			8.1	7.4	
4+33			8.6	6.9	
5+25			9.0	6.5	
6+03			8.8	6.7	
6+85			8.8	6.7	
7+08			7.7	7.8	
7+22			5.6	9.9	
7+50			9.4	6.1	
7+60			10.4	5.1	

Stake set at 760' from West curb B/L for a sounding station.

Sta. 89+00 N 8-30-50

PX

(56)

0+00 = {89+00 N West curb B/L}

Sta.	+	H.I.	−	Elev.	
T.P.	4.50	15.62		11.12	OPP. BUS stop East curb
8+70			9.7	5.9	
8+40			8.0	7.6	
8+10			8.7	6.9	
7+60			8.5	7.1	
7+15			8.8	6.8	
6+80			10.0	5.6	
5+90			9.4	6.2	
5+10			8.8	6.8	
4+65			8.6	7.0	
4+20			8.8	6.8	
3+70			8.1	7.5	
2+75			7.5	8.1	
2+23			6.4	9.2	
1+72			6.1	9.5	
1+22			5.8	9.8	
0+80			4.8	10.8	

Stake set at 870' from West curb B/L for a station to finish line by sounding

PX

Sta 89+00 N 8-30-50 (CONTD.

Sta.	+	H.I.	−	Elev.
East curb		15.62	4.50	11.12
East Gutter			5.15	10.47

Sta. 68+00 N 8-30-50

0+00 = Sta {68+00 N on East curb 3/4}

Sta	+	H.I.	−	Elev.	
B.M.	6.21	17.41		11.20	Sta 67+00 N West curb
East Gutter			5.37	12.04	
East curb (0+00)			4.75	12.66	
0+04			4.6	12.8	
0+08			5.5	11.9	
0+08			8.9	8.5	
0+10			10.0	7.4	
0+11			11.0	6.4	
0+13			12.2	5.2	
0+19			13.2	4.2	

PT

Sta. 67+00 N 8-30-50

0+00 = Sta. 67+00 N on Caseway B/L East curb

Sta.	+	H.I.	−	Elev.	
B.M.	4.76	15.96		11.20	Sta. 67+00 N West curb
East Gutter			5.40	10.56	
East (0+00) curb			4.85	11.11	
0+05			4.7	11.2	
0+10			5.4	10.5	
0+15			10.0	5.9	
0+22			12.0	3.9	

Sta. 66+00 N 8-30-50 PT

0+00 = Sta. 66+00 N on Caseway B/L East curb

Sta.	+	H.I.	−	Elev.	
B.M.	4.88	16.08		11.20	Sta 67+00 N West curb
East Gutter			5.40	10.68	
East (0+00) curb			4.80	11.28	
0+05			3.2	12.9	
0+10			3.9	12.2	
0+23			10.6	5.5	
0+30			11.9	4.2	

PX

STA - N - 61+00

DIST	+	H.I.	−	ELEV
WATER LEV	6.02	9.52		3.5
T.P.			3.15	6.37
0+00 =	(N-61+00 / W-140+00)			
0+00		9.52	4.8	4.7
W 0+22			5.0	4.5
W 0+25			6.9	2.6
W 0+39			7.8	1.7
W 0+55			7.3	2.2
W 0+58			4.3	5.2
W 1+10			4.5	5.0
W 1+63			4.4	5.1
W 2+11			4.3	5.2
W 2+60			4.5	5.0
W 2+96			4.9	4.6
W 3+00			6.9	2.6
E 0+20			5.2	4.3
E 0+30			5.9	3.6
E 0+58			5.0	4.5

1/2 SURFACE @ 09:15 A.M.

2"x8" #15 N/OF STA 61+00

8-31-50

N - 61+00

PX

DIST	+	H.I.	−	ELEV
E 0+92		9.52	5.2	4.3
E 1+00			5.8	3.7
E 1+20			7.2	2.3
E 1+60			6.3	3.2
E 2+00			4.7	4.8
E 2+60			4.7	4.8
E 3+20			4.7	4.8
E 4+03			4.6	4.9
E 4+82			4.4	5.1
E 5+50			4.4	5.1
E 5+90			4.7	4.8
E 5+95			7.7	1.8

PX

N-60+00

0+00 = (N-60+00, W-140+10)

DIST	+	H.I.	−	ELEV	
T.P	3.20	9.57		6.37	T.P LAST PAGE
E-6+80			6.9	2.7	
E-6+77			4.5	5.1	
E-6+00			4.4	5.2	
E-5+20			4.6	5.0	
E-4+55			5.2	4.4	
E-4+00			5.1	4.5	
E-3+55			5.5	4.1	
E-3+15			5.4	4.2	
E-2+65			5.2	4.4	
E-2+20			5.4	4.2	
E-1+55			5.0	4.6	
E-0+95			5.1	4.5	
E-0+53			5.0	4.6	
E-0+50 (2)			6.7	2.9	
E-0+33			13.1	−4.1	2.2
E-0+15			11.1	−1.5	
E-0+10			7.2	2.4	

N-60+00

DIST	+	H.I.	−	ELEV	
E-0+08		9.57	5.3	4.3	
0+00			4.8	4.8	
W-0+55			4.4	5.2	
W-1+10			4.5	5.1	
W-1+60			4.7	4.9	
W-2+15			4.9	4.7	
W-2+59			5.3	4.3	
W-2+62			7.8	1.8	LATH 17' W OF (N-59+00, W-140+00)
T.P.		9.57	3.19	6.38	

PX

PX

STA - 59+00 N

H_2O 5.18
Tide 4.4
10.18

0+00 = {N-59+00 / N-140+00}

DIST	+	H.I.	−	ELEV
		10.08		6.38
T.P	3.70	-.89		3.19
W-2+95			7.7	2.4
W-2+89			5.1	5.0
W-2+47			5.2	4.9
W-2+00			5.2	4.9
W-1+55			5.1	5.0
W-1+07			5.0	5.1
W-0+79			5.0	5.1
W-0+76			7.8	2.3
W-0+67			9.2	0.9
W-0+54			6.7	3.4
W-0+50			5.3	4.8
W-0+00			4.9	5.2
E-0+53			4.8	5.3
E-1+10			5.1	5.0
E-1+13			7.4	2.7
E-1+20			8.5	1.6
E 2+20			7.2	2.9

FROM PAGE (60)

4.2

N-59+00

DIST	+	H.I.	−	ELEV
E2+30		10.08	5.7	4.4
E3+03			6.1	4.0
E3+40			6.4	3.7
E3+95			5.7	4.4
E4+73			4.8	5.3
E5+50			4.6	5.5
E6+30			5.3	4.8
E6+40			5.8	4.3
E6+90			5.5	4.6
E7+30			5.3	4.8

(61)

PX

PX

N-58+00

DIST	+	H.I.	−	ELEV
T.P.	2.20	8.58		6.38
0+00 = 5.8.14	(N-58+00 / W-140+00)			
E			2.0	1.6
			2.7	4.9
E 7+40			3.4	5.2
E 6+65			3.8	4.8
E 6+15			4.1	4.5
E 5+85			4.1	4.5
E 5+40			3.5	5.1
E 5+00			3.9	4.7
E 4+36			3.7	4.9
E 3+70			3.6	5.0
E 3+05			3.3	5.3
E 2+75			4.0	4.6
E 2+60			4.7	3.9
E 2+55			5.6	3.0
E 2+50			4.7	3.9
E 2+40			3.7	4.9
E 1+85			3.4	5.2

8-31-50

N-58+00

PX (62)

Dist	+	H.I.	−	Elev
E H20		8.58	3.2	5.4
E 0+58			3.1	5.5
E 0+12			3.5	5.1
E 0+08			5.1	3.5
E 0+05			6.3	2.3
	5.52	10.52		5.0
0+00 = (N-58+00 / W-140+10)			NOTE	
E 0+10		10.5	6.6	3.9
0+00			5.1	5.4
W 0+30			5.2	5.3
W 0+65			5.3	5.2
W 0+70			6.6	3.9
W 0+82			9.5	1.0
W 0+92			7.8	2.7
W 0+94			5.2	5.3
W 1+53			5.3	5.2
W 2+10			5.4	5.1
W 2+60			5.7	4.8
W 3+10			5.9	4.6
W 3+13			6.3	4.2
W 3+30			7.5	3.0

8-31-50

63

PX

N-57+00

0+00 = (N-57+00 / W-140+00)

DIST	+	H.I.	−	ELEV
WATERLEV	5.50	10.60		5.10
W-3+75			7.9	2.7
W-3+73			6.4	4.2
W-3+30			5.7	4.9
W-2+85			5.4	5.2
W-2+40			5.3	5.3
W-1+90			5.1	5.5
W-1+45			5.2	5.4
W-1+20			5.4	5.2
W-1+18			7.7	2.9
W-1+07			9.4	1.2
W-1+00			7.7	2.9
W-0+96			5.3	5.3
W-0+50			5.1	5.5
0+00			5.0	5.6
E-0+45			5.0	5.6
E-0+90			5.3	5.3

N-57+00

PX

DIST	+	H.I.	−	ELEV
E-0+94		10.6	7.4	3.2
E-1+00			5.5	5.1
E-1+95			5.0	5.6
E-2+80			5.3	5.3
E-2+87			7.6	3.0
E-3+00			6.6	4.0
E-335			6.6	4.0
E-365			5.7	4.9
E-455			5.2	5.4
E-545			5.3	5.3
E-640			5.2	5.4
E-730			5.2	5.4

PX

Sta N 56+00

0+00 = { N 56+00 / N 57+00 / W 140+00

Sta	+	HI	−	Elev
T.P.	3.95	10.33		6.38
E 775			4.6	5.7
E 675			5.0	5.3
E 590			5.0	5.3
E 500			5.1	5.2
E 460			5.3	5.0
E 433			6.4	3.9
E 408			6.0	4.3
E 385			5.1	5.2
E 340			4.9	5.4
E 237			4.9	5.4
E 200			5.0	5.3
E 194			6.3	4.0
E 189 -5			4.9	5.4
E 185 -4			4.9	5.4
E 183 2			5.7	4.6
E 180			4.6	5.7

Lath 17' W. 6.90

Sta 56+00

8-31-50 (57)

PX

Sta	+	HI	−	Elev
E 123		10.33	4.9	5.4
E 0+70			5.0	5.3
E 0+28			4.9	5.4
0+00			5.0	5.3
W 0+54			5.0	5.3
W 0+83			5.0	5.3
W 0+86 +3			7.9	2.4
W 0+95			10.9	−0.6
W 110			6.5	3.8
W 115 +5			4.9	5.4
W 207			5.2	5.1
W 300 ?			5.5	4.8
W 245 ?			5.6	4.7
W 384			6.3	4.0
W 387			8.0	2.3
W				

PX

Sta 55+00

0+00 = { W 140+00

TP	3.78	10.16		6.38	L 0+617 W 59 HI
Sta	+	HI	−	Elev	
W 382			7.6	2.6	
W 377			5.5	4.7	
W 335			5.4	4.8	
W 278			5.3	4.9	
W 185			5.0	5.2	
W 125			4.9	5.3	
W 0+68			5.0	5.2	
W 0+65			7.5	2.7	
W 0+53			8.9	1.3	
W 0+44			6.7	3.5	
W 0+41			4.7	5.5	
0+00			4.9	5.3	
E 0+60			4.8	5.4	
E 130			4.7	5.5	
E 225			4.7	5.5	
E 280			4.8	5.4	

Sta 55+00

PX

(65)

Sta	+	HI	−	Elev	
E 284		10.16	6.1	4.1	
E 295			4.8	5.4	
E 386			5.0	5.2	
E 475			5.0	5.2	
E 500			5.2	5.0	
E 525			6.3	3.9	
E 531 HI			5.2	5.0	
E 600			4.8	5.4	
E 700			4.9	5.3	
E					
T.P.			4.34	5.82	2x2 Hub 15' L 65+00

PX

STA - 62+00 N

DIST	+	H.I.	-	ELEV
T.I.P	3.25	9.62		6.37
0+00 = (N-62+00 / W-140+00)			SEC E. & W.	
0+00		9.62	4.9	4.7
E-0+52			4.5	5.1
E-1+03			4.6	5.0
E-1+56			4.8	4.8
E-2+10			4.9	4.7
E-315			4.3	5.3
E 415			4.2	5.4
E 495			4.5	5.1
E 515			4.6	5.0
E 512 3			6.4	3.2
E 522			8.4	1.2
E 533			8.6	1.0
E 550			7.7	1.9
E 555 5			5.9	3.7
E 580			5.6	4.0
E 640			4.7	4.9
E 692			4.8	4.8

9-1-50

(66)

PX

62+00-N

Sta	+	H.I.	-	Elev
		9.62		
W 0+08			5.8	3.8
W 0+13 5			7.4	2.2
W 0+20			8.0	1.6
W 0+27			7.8	1.8
W 0+46			6.9	2.7
W 0+55			8.7	0.9
W 0+76			8.7	0.9
W 0+79 3			6.2	3.4
W 0+80 1			5.2	4.4
W 130			4.7	4.9
W 188			4.6	5.0
W 247			4.6	5.0
W 300			5.0	4.6
W 324			5.5	4.1
W 326 2			7.1	2.5
W 370			8.0	1.6

PX

Sta N 54+00

0+00 = { Sta 54+00 W 14000

Sta	+	HI	−	Elev
T.P.	4.45	10.27		5.82
SET T.P.			4.15	6.12
0+00		10.3	5.1	5.2
E 0+60			5.0	5.3
E 130			4.9	5.4
E 183			4.7	5.6
E 238			4.7	5.6
E 270			4.6	5.7
E 342			4.9	5.4
E 377			4.8	4.5
E 381+4			5.7	4.6
E 386+5			4.7	4.6
E 435			5.2	5.1
E 440+5			5.5	4.8
E 446+6			5.1	5.2
E 503			5.0	5.3
E 560			5.2	5.1

FROM PAGE (65)
1"x2" 15' W 55+
1"x2" 15' W 54+
OF N-54+00

9-1-50

(67)

PX

N-54+00

Dist	+	H.I.	−	Elev
		10.27		
E 617		10.3	4.9	5.4
E 715			4.8	5.5
E 768			4.7	5.6
E 825			5.0	5.3
E 840+2			5.9	4.4
E 842			8.4	1.9
E 847+8			6.9	3.4
E 855+4			5.8	4.5
E 859			4.7	5.6
E 878			5.5	4.8
E 933			4.5	5.8
E 1043			4.7	5.6
E 1140			4.4	5.9
W-0+30+7			5.0	5.3
W-0+37			5.5	4.8
W-0+44			9.7	0.6
W-0+53			10.9	-0.6

PX

54+00

DIST	+	H.I.	−	ELEV
W. 0+60		10.327	6.8	3.5
W. 0+60			5.2	5.1
W. 1+13			5.2	5.1
W. 1+65			5.3	5.0
W. 2+13			5.5	4.8
W. 2+60			5.6	4.7
W. 3+05			6.1	4.2
W. 3+43			6.1	4.2
W. 3+65			6.5	3.8
W. 3+68			8.8	1.5

53+00N

0100 = {53+00N / 14,000 W}

PX

Dist	+	H.I.	−	Elev
BM	3.32	9.44		6.12
E12+86			3.8	5.6
E11+84 (592)			4.0	5.4
E11+48 (574)			4.4	5.0
E11+43 (3)			5.2	4.2
E11+37 (2)			4.3	5.1
E10+90			4.0	5.4
E9+88			3.7	5.7
E9+72			3.7	5.7
E9+71 (1)			5.0	4.4
E9+66 (5)			7.1	2.3
E9+52			6.3	3.1
E9+46 (6)			5.1	4.3
E9+45 (1)			4.2	5.2
E9+13			4.7	4.7
E9+09 (4)			5.5	3.9
E8+85			4.7	4.7

PX

53+00 N

Dist	+	Hi	−	Elev
		9.44		
E 8+33			3.8	5.6
E 7+75			3.4	6.0
E 6+60			3.7	5.7
E 5+90			4.1	5.3
E 5+33			4.0	5.4
E 4+80			3.9	5.5
E 4+74 (6)			4.7	4.7
E 4+70 (4)			3.9	5.8
E 4+15			4.0	5.4
E 3+60			3.8	5.6
E 3+00			4.0	5.4
E 2+46			4.0	5.4
E 1+93			4.1	5.3
E 1+40			4.3	5.1
E 1+38 (2)			5.5	3.9
E 1+31 (7)			5.5	3.9
E 1+29 (2)			4.3	5.1
E 0+43			4.7	4.7
E 0+39 (4)			6.7	2.7

53+00 N

Dist	+	Hi	−	Elev
		9.44		
E 0+19			8.6	0.8
E 0+05			6.2	3.2
0+00			4.5	4.9
W 2+82			7.3	2.1
W 2+81			5.0	4.4
W 2+74 (4)			4.7	4.7
W 2+67 (7)			4.5	4.9
W 2+64			6.6	2.8
W 2+60			6.8	2.6
W 2+57			5.5	3.9
W 2+30			5.0	4.4
W 1+93			4.9	4.5
W 1+55			4.7	4.7
W 1+10			4.5	4.9
W 0+50			4.3	5.1

3.3

PX (69)

9-6-50

Extensions On Sections Near Rt Midway Bridge Detour

Sta - 37+00 N

0+00 = (N-37+00, W-127+00) Sec. East & West.

Dist	+	H.I.	−	Elev
T.P.	4.82	15.17		10.35
W 640			5.1	10.1
W 605			4.8	10.4
W-5+86			4.9	10.3
W-5+67			4.8	10.4
W-5+60			5.0	10.2
W-5+56			3.6	11.6
W-5+52			5.2	10.0
W-5+45			4.3	10.9
W-5+32			4.6	10.6
W-5+17			5.0	10.2
W-4+63			5.0	10.2

2"x2" @ N-37+00 W-127+00

10.35
4.82
15.17

9-5-50

(70)

Rt Sta - 38+00 N

0+00 = (N-38+00, W-127+00) Sec. East & West.

Dist	+	H.I.	−	Elev
T.P.	1.16	11.51		10.35
W 773			0.9	10.6
W 738			0.8	10.7
W 690			1.5	10.0
E 460			4.9	6.6
E 510			5.3	6.2
E 563			5.3	6.2
E 595			4.7	6.8
E 665			5.0	6.5
E 727			5.1	6.4
E 767			5.1	6.4
E 825			4.9	6.6
E 850			4.1	7.4
E 855			1.8	9.7
E 861			4.0	7.5
E 885			5.0	6.5
E 935			4.7	6.8

2"x2" @ N-37+00 W-127+00

10.35
1.16
11.51

9-5-50

C. BARRAGAN
A. SHERRY
W. CARVER

9-5-50

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P+

STA - 39+00 N

0+00 = (N-39+00 / W-127+00) SEC EAST & WEST

DIST	+	H.I.	−	ELEV
T.P.	0.90	11.25		10.35
E 9+30			4.3	7.0
E 860			4.4	6.9
E 795			4.3	7.0
E 751			4.2	7.1
E 723			3.4	7.9
E 717 -6			2.1	9.2
E 710 -7			4.0	7.3
E 690			5.0	6.3
E 636			4.8	6.5
E 580			4.9	6.4
E 528			4.7	6.6
E 523 -5			5.2	6.1
E 520 -3			4.9	6.4
E 487 -C			5.1	6.2
E 481			5.6	5.7
E 467 C			6.3	5.0
E 461			5.0	6.3
E 430			4.7	6.6

2"x2" E
(N-37+00 / W-127+00)
10.35
.90
11.25

PX

3-12-51

SOUND WEST

STA 72+00 - 0+00 = 14160 W

DIST	SOUND		DIST	SOUND	
0+00	0.0	+2.6	1+80	12.0	9.4
(2:49)	4.0	-1.4	(2.6)	12.1	9.5
(2.6)	7.5	-4.9	2+00	12.2	9.6
	12.0	-9.4		12.5	9.9
	12.0	9.4		12.9	10.3
+50	12.1	9.5		12.7	10.1
	11.5	8.9		12.5	9.9
	12.4	9.8	+50	12.5	9.9
	12.1	9.5		14.0	11.4
	12.1	9.5		14.1	11.3
1+00	12.2	9.6		14.0	11.4
	12.0	9.4		13.7	11.1
	12.1	9.5	3+00	13.0	10.4
	12.1	9.5		12.9	10.3
	12.1	9.5		12.7	10.1
+50	12.1	9.5		12.5	9.9
	12.0	9.4	(2:45)	12.2	9.6
	12.0	9.4	+50	12.2	9.6

STA 72+00 3-12-51 (72)

SOUND WEST

DIST	SOUND		DIST	SOUND	
3+60	12.2	9.6	5+50	13.2	10.6
	12.2	9.6		13.0	10.4
(2.6)	12.3	9.7	(2.6)	12.7	10.1
	12.0	9.4		12.5	9.9
4+00	11.8	9.2		12.0	9.4
	11.7	9.1	6+00	12.2	9.6
	11.5	8.9	BR.	11.4	9.8
	11.2	8.6		13.2	10.6
	11.1	8.5		13.8	11.2
+50	11.4	8.8		13.8	11.2
	12.0	9.4	+50	13.6	11.0
	12.0	9.4		13.5	10.9
	12.5	9.9		12.0	9.4
	14.4	11.8		12.3	9.7
5+00	14.4	11.8		11.0	8.4
	14.0	11.4	7+00	10.2	7.6
	14.0	11.4		11.0	8.4
	14.0	11.4		10.0	7.4
	13.6	11.0		8.2	5.6

PX STA 72+00 3-12-51

SOUND WEST

DIST	SOUND		DIST	SOUND	
7+40	9.2	6.6	9+30	10.8	8.2
+50	9.5	6.9		11.4	8.8
(7:50)	10.0	7.4	+50	11.6	9.0
	10.0	7.4			
(2.6)	10.0	7.4			
	10.3	7.7			
8+00	10.3	7.7			
	10.4	7.8	10+00		
	10.3	7.7			
	10.3	7.7			
	10.4	7.8			
+50	10.4	7.8			
	10.1	7.5			
	10.1	7.5			
	10.1	7.5			
	10.1	7.5			
9+00	10.3	7.7			
	10.3	7.7			
	10.0	7.4			

3-12-51 (73)

SOUND WEST

STA 73+00 0+00 = 14140 W

DIST	SOUND		DIST	SOUND	
0+10	0.0	+2.5	1+90	12.3	9.8
+20	1.0	+1.5	2+00	12.3	9.8
(3.00)	3.1	-0.6		12.3	9.8
(2.5)	6.8	4.3	(2.5)	12.8	10.3
+50	12.0	9.5		12.4	9.9
	12.5	10.0		12.5	10.0
	12.4	9.9	+50	12.6	10.1
	12.9	10.4		12.9	10.4
	12.9	10.4		12.5	10.0
1+00	12.0	9.5		12.1	9.6
	12.0	9.5		11.7	9.2
	11.8	9.3	3+00	11.5	9.0
	12.0	9.5		11.7	9.2
	12.0	9.5		12.0	9.5
+50	12.0	9.5		12.4	9.9
	11.9	9.4		12.1	9.6
	11.5	9.0	+50	12.0	9.5
	12.3	9.8		12.0	9.5

PX

3-12-51

STA 73+00 SOUND WEST

DIST	SOUND		DIST	SOUND	
3+70	12.0	9.5	5+60	14.6	12.1
	12.0	9.5		14.5	12.0
	12.0	9.5	(2.5)	14.5	12.0
4+00	12.1	9.6		14.4	11.9
	12.1	9.6	6+00	14.2	11.7
(2.5)	12.0	9.6		14.4	11.9
	11.8	9.3		14.8	12.3
	11.8	9.3		15.5	13.0
+50	13.0	10.5	B.R.	16.0	13.5
	14.4	11.9	+50	15.0	12.5
	13.7	11.2		13.5	11.0
	13.5	11.0		14.5	12.0
	14.2	11.7		14.1	11.6
5+00	14.7	12.2		13.3	10.8
	14.7	12.2	7+00	12.0	9.5
(3:05)	14.5	12.0		11.5	9.0
	14.6	12.1		12.5	10.0
	14.6	12.1		12.8	10.3
+50	14.7	12.2		12.4	9.9

3-12-51 (74)

STA 73+00 SOUND WEST

DIST	SOUND		DIST	SOUND
7+50	12.2	9.7		
	11.8	9.3		
(2.5)	11.0	8.5		
	11.5	9.0		
	12.3	9.8		
8+00	12.1	9.6		
	11.6	9.1		
	11.0	8.5		
	12.0	9.5		
	12.2	9.7		
+50	11.5	9.0		
(3:08)				
9+00				

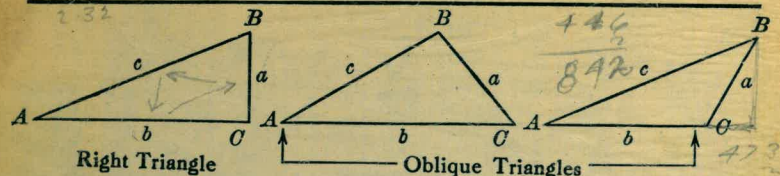
3-14-51

SOUND WEST

STA 72+00 N 0+00 = 14160 W

DIST	SOUND		DIST	SOUND	
6+00	10.2	8.4	7+80	12.4	10.6
	9.8	8.0	1.8	9.0	7.2
1.8	11.5	9.7	8+00	9.4	7.6
10:27	12.4	10.6		9.7	7.9
	12.5	10.7		9.5	7.7
+50	12.3	10.5		9.8	8.0
	12.0	10.2		9.5	7.7
	10.4	8.6	+50	9.4	7.6
	10.8	9.0		9.4	7.6
	10.3	8.5		9.4	7.6
7+00	11.0	9.2		9.5	7.7
	11.8 ~~10.8~~	10.0 ~~9.0~~		9.7	7.9
	11.5	9.7	9+00	10.0	8.2
	10.5	8.7			
	12.0	10.2			
+50	11.4	9.6			
10:10	12.5	10.7			
	12.7	10.9			

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

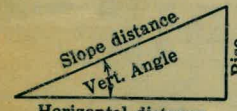
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .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. Cosine 5° 10′ = .9959. 1 — .9959 = .0041. 319.4 × .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.