

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width. Side Slopes $1\frac{1}{2}$ 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

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.

IV 10-11-36" W CAUS. B/k.

Book No 32

311

COASTER-EL-1139

S-75°49'07"E

N 51°27'22"W

24°26'45"W

24°16'45"

65+00 w/kb. B/k EL = 11.41

61+00 = 11.24

62+00 = 10.60

63+00 = 11.38

64+00 = 11.43

65+00 = 11.41

66+00 = 11.29

67+00 = 11.20

68+00 = 12.93

H/W COR. BASE = 11.32 #4590

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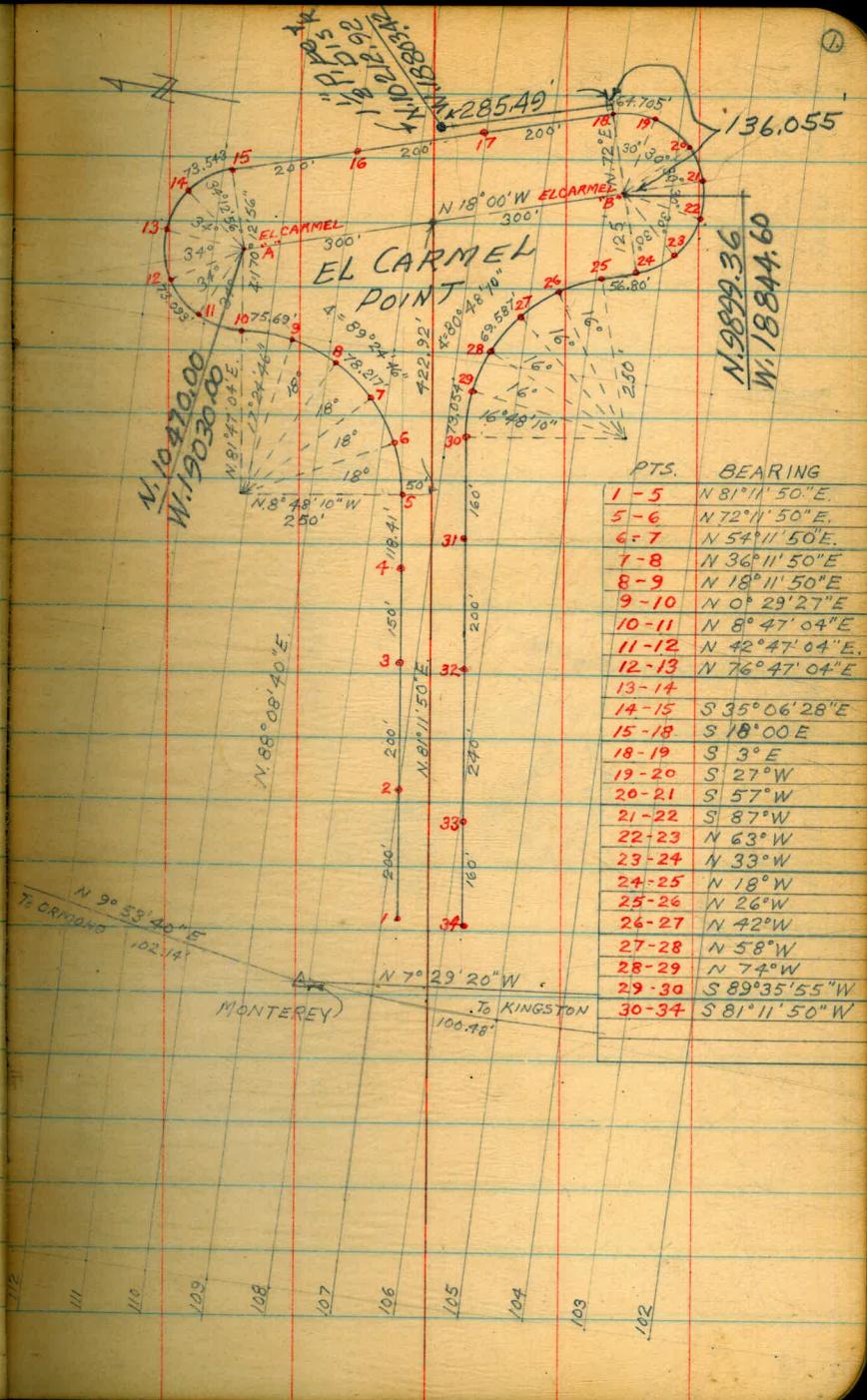
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245° - 47'
180°
65° - 47'

014
40
360

0117
4
468

ACCB off land area as shown off
Point 1000 ft. from Point 1000 ft. from
Point 1000 ft. from Point 1000 ft. from



(2)

SCALE 1" = 300'



MEAN HIGH TIDE SURVEY OF SANTA CLARA

POINT F WEST SHORE LINE

BARRAGAN
SHERRY
STANLEY3-3-48
CLEAR
WARM
CALM

(4)

STA	OBJECT	AZIM	DIST	ROD	ELEV		
	+	H.I.					
B.M.	5.05	13.55		8.50			
✓	112+00		155'	8.75	7.80		
✓	113+00		161'	8.75	7.80		
✓	114+00		160'	8.75	7.80		
✓	115+00		150'	8.75	7.80		
✓	116+00		196'	8.75	7.80		
	117+00		134.5	8.75	7.80		
B.M.	7.82	H.I.		8.40			
✓	118+00		123.5'	8.42	7.80		
✓	119+00		125.'	8.42	7.80		
✓	120+00		118.'	8.42	7.80		
	121+00		191.5	8.42	7.80		
✓	# 28		71.'				
B.M.	7.71	H.I.		8.40			
✓	# 27		58.'	11.01	7.80		
✓	# 26		65.5'	11.01	7.80		
						8.50 5.05 13.55	13.55 9.80 8.75
						8.90 4.82 13.22	13.22 9.80 8.72
						8.40 7.71 15.81	15.81 4.80 11.01

(X) IN WALK STA-112+00

3-3-18

(5)

MEAN HIGH TIDE SURVEY SANTA CLARA POINT

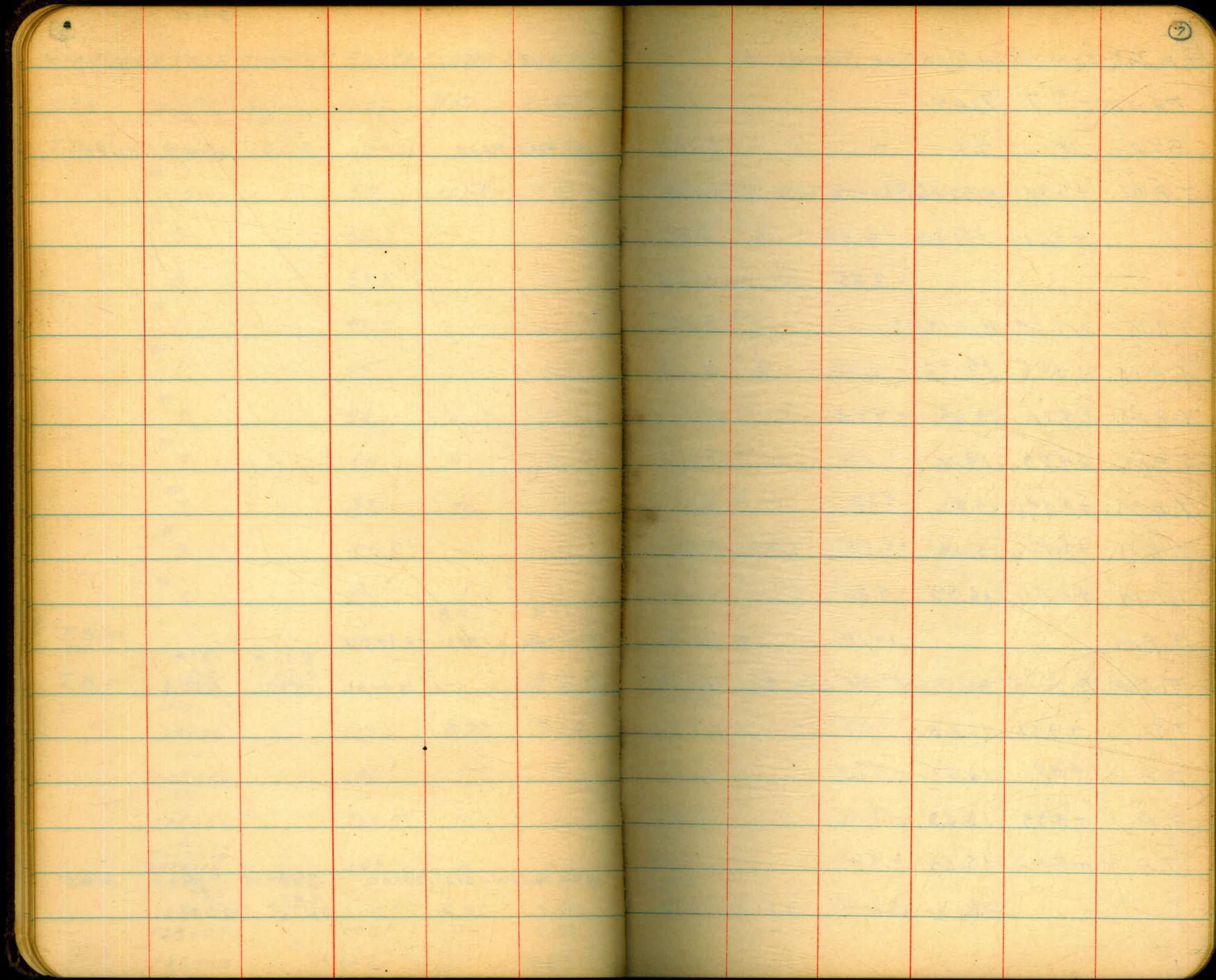
STA	OBJCT	AZIM	DIST	ROD	ELEV	
✓	#	H.I. 15.81				
✓	25		68'	11.01	9.80	
✓	#		71'	"	"	
✓	23		73.'	"	"	
✓	#		73.'	"	"	
✓	#		21	69.5	"	"
T.P.	+1.49	H.I. 17.30	0.00	15.81	TOP FIRE PLUG	15.81 -1.49 17.30
✓	#		20	65.5'	12.50	9.80
✓	#		19	65.'	"	"
✓	#		18	61.5'	"	"
✓	#		17	59'	"	"
✓	#		16	50.5'	"	"
✓	#		15	69.5	"	"
✓	#		14	76.'	"	"
✓	#		13	67'	"	"
✓	#		12	65.'	"	"
✓	#		11	60'	"	"

3-3-18

(6)

MEAN HIGH TIDE SURVEY SANTA CLARA POINT

STA	OBJECT	AZIM	DIST	POD	ELEV			
	+	H.I.						
T.B.M	0.67	16.48			15.81	15.81 0.67	16.78 4.80	11.68
✓	#					TOP FIRE PLUG		SANTA CLARA PT
✓	10		57'	11.68	4.80			
✓	#	9	52.5'	"	"			
✓	#	8	52.5'	"	"			
✓	#	7	79.0'	"	"			
✓	#	6	57'	"	"			
✓	#	5	53'	"	"			
✓	#	4	54'	"	"			
✓	#	3	57'	"	"			
✓	#	2	50.5'	"	"			
✓	#	1	81.'	"	"			
				8.05	8.43 =			
T.B.M	+	H.I.						
T.B.M	5.36	13.77			8.41	(X) IN WALK - STA - 129+00		
	STA -							
✓	129+00		107.5'	8.97	4.80			
✓	STA -							
✓	125+00		102.'	"	"			
✓	STA -							
	126+00		106.5'	"	"			
	4							
	126+70.70							
	QUEENSTON							
T.B.M.	+9.80	H.I. = 13.15	109'	"	"	8.35	(X) IN WALK - STA - 128+00	
✓	128+00		106'	8.35	4.80			
✓	129+00		103.'	"	4.80			
✓	130+00		122.'	"	4.80			



BALFRAGAN A-29-48
SHEPPS
STANLEY
WINDY
COOL
CLEAR

1-29-48

(8)

T.B.M. FOR MEAN HIGH TIDE SURVEY OF

PROJECT #7 "DANA"

STA + H.I. - ELEV

T.B.M. +5.54 H.I.=16.33 10.79 TOP HUB STA-64+00 CAUSEWAY B/L.

+5.61 15.30 -6.69 c 9.69 HUB # 5

-3.85 11.15 RADIUS "L"

T.B.M. +4.64 H.I.=14.33 9.69 HUB # 5

T.B.M. +4.85 14.52 -4.66 9.67 HUB # 9

T.B.M. +4.71 14.65 -4.58 9.91 HUB # 13

T.B.M. +4.73 14.10 -5.28 9.37 HUB # 18

T.B.M. +5.14 14.22 -5.32 8.78 HUB # 24

T.B.M. +5.87 15.04 -5.05 9.17 HUB # 24-D

T.B.M. +6.41 16.59 -4.86 10.18 HUB # 25-C

T.B.M. -10.14 6.45 HUB # 27

T.B.M. -5.85 10.79 HUB AT S/E END OF PROPOSED TEMP. BRIDGE,

T.P. +4.37 16.28 -4.68 11.91

T.P. +4.21 16.31 -4.18 12.10

T.P. +4.39 15.29 -5.36 10.95

T.P. +5.20 15.89 -4.65 10.69
-5.11 10.73
10.79 STA-64+00 CAUSEWAY B/L.

MEAN HIGH TIDE SURVEY OF SHORE LINE

OF PROJECT # 7 "DANA"

BARRAGAN 9-30-18
BERRY'S FAIR WIND
STANLEY COOL
VISIBILITY FAIR

(3)

STATION	OBJECT	AZIM	DIST	ROD	ELEV	REMARKS
T.B.M.	+3.59	H.I.= 15.04			11.95	TOP OF HUB RADIUS "L"
"0"		27.0	10.27	-1.8	290 EAST OF #1". (DIST. OUT AT 90° TO #1")	
"1"		37.0	"	"		(" " " " " #2")
"2"		29.5'	"	"		(" " " " " #3")
"3"		20.0'	"	"		(DIST. OUT ON LINE WITH RADIUS "A")
"4"		17.0'	"	"		(DIST. OUT AT 90° TO #5")
T.B.M.	+1.92	H.I.= 19.61			9.69	TOP OF HUB #5
"5"		30.0'	9.81	-1.8		(DIST. OUT AT 90° TO #4")
"6"		27.0'	"	"		(DIST. IN DIRECTION OF RADIUS "D")
"7"		25.0'	"	"		(" " " " " ")
"8"		26.0'	"	"		(" " " " " ")
"9"		29.5'	"	"		(" " " " " ")
"10"		30.0'	"	"		(" " " " " ")
"11"		30.0'	"	"		(" " " " " ")
"12"		30.0	"	"		(" " " " " ")

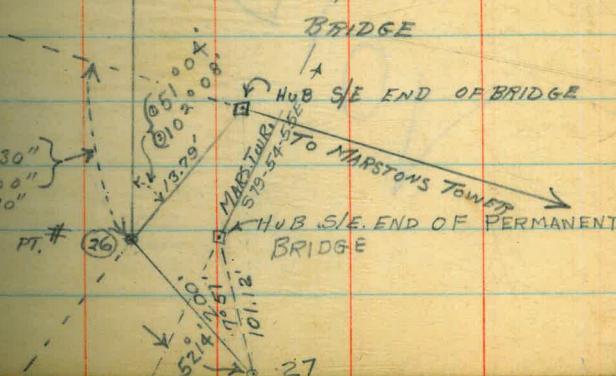
MEAN HIGH TIDE SURVEY OF SHORELINE OF PROJ. # 7 "DAM"

STATION	OBJECT	AZIM	DIST	ROD	ELEV	REMARKS
T.B.M	+ 9.67	H.I. = 19.61		9.99	TOP OF HUB # 13	
" 13 "	28.0'	9.81	4.80			(DIST. IN DIRECTION OF RADIUS "D")
" 14 "	30.0'	"	"			(" " " " ")
" 15 "	29.0'	"	"			(" " " " ")
" 16 "	31.5'	"	"			(" " " " ")
" 17 "	28.0'	"	"			(" " " " ")
" 18 "	31.0	"	"			(" " " " ")
" 19 "	39.5'	"	"			(" " " " ")
" 20 "	32.0					(" " " " ")
T.B.M	+ 6.15	H.I. = 19.93		8.78	TOP OF HUB # 21	
" 21 "	33.0'	10.13	4.80			(DIST. IN DIRECTION OF RADIUS "D")
" 22 "	33.0'	"	"			(DIST. OUT AT 90° TO # 21)
" 23 "	30.0'	"	"			(DIST OUT ON LINE WITH RADIUS "M")
" 24 "	29.5'	"	"			(" " " " ")
" 24-A "	32.0	"	"			100' WEST OF # 24 (ON TAN); DIST. OUT AT 90° TO # 24
" 24-B "	27.0	"	"	200'	" " "	(" "): " " " " "
" 24-C "	25.0	"	"	300'	" " "	(" "): " " " " "

MEAN HIGH TIDE SURVEY OF SHORELINE OF PROJ # 7 "DANA"

STATION	OBJECT	AZIM	DIST	ROD	ELEV	REMARKS
T.B.M.	+ 5.99	H.I.=	+ 5.99	9.17	TOP OF HUB # 24-D	
"24-D"		26.0'	10.36	9.80	400' WEST OF # 24 (ON TAN): DIST. OUT AT 90° TO # 24	
"25"		28.5'	"	"	(PL. 513' WEST OF # 24). DIST. OUT AT 90° TO # 24	
"25-A"		27.0'	"	"	100' WEST OF # 25 (ON TAN): DIST. OUT AT 90° TO # 25	
"25-B"		28.0'	"	"	200' " " " (" "): " " " " " "	
"25-C"		27.0'	"	"	300' " " " (" "): " " " " " "	
"25-D"		28.0'	"	"	400' " " " (" "): " " " " " "	
T.B.M.		H.I.= 16.27	+ 5.53	10.7	TOP OF HUB AT S/E END OF PROPOSED TEMP. BRIDGE.	
"26"		15.0'	-11.47	"	(PL. 505' WEST OF # 25). DIST. OUT AT 90° TO # 25	
"26-A"		26.0'	"	"	100' S/W OF # 26 ON LINE WITH # 27	
"27"		10.0'	"	"	200' S/W OF # 26 (END OF TRAVERSE) DIST OUT AT 90° TO # 26	

PT. # ②5 TIE TO HUB & TACK AT
S/E END PROPOSED TEMP.



5-11-18

(12)

STA - + H.I. - ELEV

B.M. 7.17 16.56

11.39

"U.S.E.D. COASTER" 16.56
11.39
9.17

16.56
4.80

6.56-10
11.39

11.39
9.17

15.56

T.B.M. 9.11 14.11

6.56 9.00

"TOP OF 2"X2" HUB" # 16.56
14.11
9.80

11.76-
4.11-10

15.62
11.39

15.62
9.80

10.76

T.B.M. 3.14 13.19

4-06 9.05

"TOP OF 2"X2" HUB" # 6 10'
13.19
3.17

10.05
13.13

8.39
14.16

9.16-10
9.80

T.B.M. 9.14 14.16

3.17 9.02

"TOP OF 2"X2" HUB" # 8 10'
10.02
14.16

10.05
15.01

9.80
9.36

5.01-10

T.B.M. 9.96 15.01

9.11 9.05

"TOP OF 2"X2" HUB" # 10 10'
15.01

10.21

T.P. 4.52 15.89

3.69 9.32

15.01
3.69

11.32
9.52

15.89

T.P. 4.50 15.89

4.50 9.34

11.32
9.52

15.89
9.50

11.34
9.34

T.P. 7.87 15.62

5.09 9.75

15.89
5.09

10.75
9.87

15.62
9.23

T.P. 4.72

3.23 11.39

"U.S.E.D. A COASTER"

V.O/D

5-11-48

BARRAGAN 5-11-48
SHERRY
STANLEY

LEVELS FOR MEAN HIGH TIDE SURVEY OF

VENTURA POINT SHORE LINE

STA. + H.Y. - ELEV

B.M. 3.71 15.10 11.39

T.B.M. 3.71 13.73 5.08 10.02

T.B.M. 2.92 12.93 3.72 10.01

T.B.M. 5.57 15.60 2.90 10.03

T.P. 1.88 15.14 5.34 10.26

T.P. 4.20 19.62 4.72 10.42

3.24 11.38

USED A "COASTER"	11.39 3.71	15.10 4.80	5.10 - 10
TOP HUB (2" X 2") # 5 10'	13.73 3.08	15.10 10.02	10.30
TOP HUB (2" X 2") # 7 10'	13.73 3.72	13.73 8.13	7.89
TOP HUB (2" X 2") # 10'	12.93 2.92	12.93 8.13	9.09
	10.03 5.57	15.60 4.80	15.60 6.43
	15.60 5.34	10.80 7.22	9.07 11.89
	10.26 10.26	15.19 10.72	19.62 3.23

USED A "COASTER" EL = 11.39

MEAN HIGHTIDE SURVEY OF
WLY, SHORE OF VENTURA PT.

5-11-48

(14)

STATION	OBJECT	ANGLE	DIST	ELEV.	BEARING	
"COASTER"	MARSTONS TWR.	① $30^{\circ} 08'$				N 57° 54' 07" E
U.S.E.D.	DEF. LT. 30° 08' 30"	AV. $30^{\circ} 08' 15"$				30 08 15
198.05'	STA - 1 + 98 05	② $60^{\circ} 16' 30"$	#3 10' LINE	10 0	574° 07' 23" W	106 52 22
"COASTER"		① $46^{\circ} 19'$			574° 07' 38 W	79 07 38
1 + 98 55	DEF. RT. 46° 19' 00"	AV. $46^{\circ} 19' 15"$	198.05	10 0	N 59° 03' 37" W	46 58 45
STA - 3 + 91. 13	STA - 3 + 91. 13	② $93^{\circ} 37' 30"$	#2 10' LINE			120° 56' 23"
143.38'						179 59 60
1 + 98 05		① $13^{\circ} 57'$				59 03 37
3 + 91. 13	DEF. LT. 13° 56' 00" AV. $13^{\circ} 56' 30"$	143.38	10 0	N 72° 59' 37" W	13 56 30	
STA - 9 + 71 98	STA - 9 + 71 98	② $27^{\circ} 53' 00"$	#1 10' LINE		N 73° 00' 07" W	73 00 07
130.05						106 33 20
3 + 91. 13		① $106^{\circ} 39'$				179 33 37
4 + 71 98	DEF. LT. 106° 39' 30" AV. $106^{\circ} 33' 30"$	130.05	10 0	50° 26' 53" W	106 33 20	
STA 5 + 94 31	STA 5 + 94 31	② $213^{\circ} 07' 00"$	9.8 EL. LINE 15' PT		50° 26' 23" W	26 23
5 + 94 31	DEF. LT. 92° 50' 00" AV. $92^{\circ} 50' 00"$	72.83	7.8	N 87° 36' 53" E	92 50 00	
6 + 57 69	STA - 6 + 57 69	② $185^{\circ} 40' 00"$	#2 10' LINE		N 87° 36' 23" E	26 23
6 + 62	STA - 6 + 62		1.8			26 23
						3° 10' 23"
						89 59 60
						22 37
						89 59 60
						22 37
						87 36 23
						87 36 23

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(15)

STATION	OBJECT	ANGLE	DIST	ELEV	BEARING
6+44 31	(1) 37° 35'				
6+62 65 6+57 69 1 30 17'	DEF. LT. 37° 35' 00" AV. 37° 34' 30"	113.33 118.33	(9.8)	554° 48' 07"E	
STA - 7+87 81 7+92 78	(2) 75° 09' 00"	95 69			
7+92 78 7+89 81 2 39 82	6+57 69 ③ 95° 56' 00"	88 18	130.17	(4.8)	554° 48' 07"E 143° 06' 07"
STA - 10+27 63	DEF. LT. 047° 58' 00"	179 59 60			
	STA - 10+27 63 AV. 97° 58' 00"	143 06 07			
7+87 81 7+92 78	6+57 69 ① 88° 18' ② 176° 36' 00" DEF. LT. AV. 98° 18' 00" DIST - 38.9	143 06 07	10.9	95 57 ② 191° 57' ① 95°	179 59 60 143 06 07 115 95 55 89 36 53 53 59 03 07
1+98 05	#3 10' EL. LINE				
	TIE				
7+87 81				573° 25' 07"E	
10+27 63 1 83 89	DEF. LT. 66° 35' 00"	239.8	4.8		
STA - 12+11 52	(5)				
10+27 63					
12+11 52 2 80	DEF. LT. 10° 10' 30"	183.85	1.8	583° 35' 37"E	
STA - 14+91 65	(6)				

STATION	OBJECT	ANGLE	DIST	ELEV.	BEARING
12 + 11 52					
19 + 91 65 2 44 38	DEF. RT.	23° 25' 00"	280.13	4.8	560° 10' 37"E
STA - 17 + 36 03		(#7)			
19 + 91 65					
17 + 36 03 2 44 56	DEF. RT.	10° 29' 00"		4.8	S 49° 46' 37"E
STA - 19 + 80 69		(8)			
17 + 36 03					
19 + 80 69 2 55 31	DEF. LT.	00° 30' 00"		4.8	550° 16' 37"E
STA - 22 + 36 00		(9)			
19 + 80 69					
22 + 36 00 2 83 29	DEF. RT.	19° 05' 00"		4.8	531° 11' 37"E
STA - 25 + 19 29		(#10)			
22 + 36 00					
25 + 19 29 4 68 78	DEF. LT.	20° 55' 00"		4.8	552° 06' 37"E
STA - 26 + 88 02		(#11)			

STATION	OBJECT	ANGLE	ELEV	BEARING
25+19 ²¹				
26+88 ⁰² 1 47 ¹⁹	DEF LT.	35° 05' 00"	4.8	587° 11' 37"E
STA-28+35 ³¹	# 12			
26+88 ⁰²				
28+35 ³¹ 1 34 ¹⁹	DEF LT.	21° 17' 00"	4.8	N 71° 31' 23"E
STA-29+69 ¹⁵	# 13			
28+35 ³¹				
29+69 ⁹⁵ 1 42 ¹⁸	DEF LT.	16° 12' 00"	7.8	N 55° 19' 23"E
STA-31+11 ⁶³	# 14 7.8 LINE			
29+69 ⁹⁵				
31+11 ⁶³	DEF LT.	113° 05' 00" DIST. 49.7		N 57° 45' 37"W
HUB # (69)? (66) TIE				
29+69 ⁹⁵				
31+11 ⁶³ 65 ²⁶	DEF LT. (* 19 ¹⁰) 31+76 ⁸⁹	87° 59' 30" DIST 65.2 LAST PT ON 4.8 EL. LINE		N 32° 35' 07"W
				1 st PT ON 10.2 EL. LINE

STATION	OBJECT	ANGLE	ELEV	BEARING
31+11 <u>63</u>				
31+76 <u>89</u> 1 40 <u>36</u>	DEF. RT.	103° 13' 00"	10°	544° 11' 53" W
33+17 <u>25</u>	(# 13)			
31+76 <u>89</u>				
33+17 <u>25</u> 1 24 <u>29</u>	DEF. RT	22° 58' 00"	10°	567° 09' 53" W
31+91 <u>99</u>	(# 12)			
33+17 <u>89</u>				
39+41 <u>99</u> 1 23 <u>21</u>	DEF. RT	35° 33' 00"	10°	N 77° 17' 07" W
35+69 <u>30</u>	(# 11)			
39+41 <u>99</u>				
35+64 <u>20</u> 1 31 <u>39</u>	DEF. RT.	25° 15' 00"	10°	N 52° 02' 07" W
37+15 <u>59</u>	# (10)			
35+69 <u>20</u>				
37+15 <u>59</u> 2 85 <u>17</u>	DEF. RT.	20° 28' 00	10°	N 31° 34' 07" W
40+00 <u>76</u>	(# 9)			

STATION	OBJECT	ANGLE	ELEV ✓	BEARING
37+15 <u>59</u>				
40+00 <u>76</u> 2 94 31	DEF. LT.	16° 26' 00"	10°	N 47° 57' 07" W
42+95 <u>10</u>		(#8)		
40+00 <u>76</u>				
42+95 <u>10</u> 2 55 62	DEF. LT.	5° 35' 00"	10°	N 53° 29' 07" W
45+00 <u>72</u> 2 98 15		(#7)		
42+95 <u>10</u>				
45+00 <u>72</u> 2 98 15	DEF LT.	6° 25' 00"	10°	N 59° 54' 07" W
47+98 <u>87</u> 2 96 91		(#6)		
45+00 <u>72</u>				
47+98 <u>87</u> 2 96 91	DEF. LT.	27° 13' 30"	10°	N 87° 07' 37" W
50+00 <u>78</u>		(#5)		
47+98 <u>87</u>				
50+45 <u>78</u> 1 52 85	DEF RT.	3° 03' 00"	10°	N 84° 04' 37" W
STA. 51+98 <u>63</u>		(#7)		

STATION	OBJECT	ANGLE	ELEV	BEARING
<u>50 + 45⁷⁸</u>				
<u>51 + 98⁶³</u> 2 67 ²²	DEF RT	73° 56' 00"	10°	N 10° 08' 37" W
<u>51 + 65⁸⁵</u>	# 3			
<u>51 + 98⁶³</u>	A.Y.	81° 17' 15"		
<u>51 + 65⁸⁵</u>	DEF. RT.	① 81° 18' 00" 198.05'		N 74° 09' 23" E
"COASTER"		② 168° 35' 30"		

STA	OBJECT.	ANGLE	DIST.	BEARING	ELEV
				$554^{\circ}48'07''E$	
6+57.64					
7+87.81 85.87	RT	① $44^{\circ}95'$ ② $89^{\circ}30'$	85.87	$510^{\circ}03'07''E$	4.80
8+73.68					
6+57.64					
7+87.81	RT	① $15^{\circ}52'$ ② $31^{\circ}44'$	62.06	$57-48-07$ $15-52$ $N 38^{\circ}56'07''W$	4.80
7+25.75				$N 50^{\circ}48'53''E$	
8+73.68				$51-38-11$	
7+87.81		① $120^{\circ}49'$		$(N 6^{\circ}50'07''W)$	
10+27.63	LT	② $25^{\circ}38'$			4.80
9+85.08			42.55	$N 19^{\circ}39'07''W$	
7+87.81		① $45^{\circ}14'$			
10+27.63	LT	② $90^{\circ}28'$	38.31		4.80
10+65.94				$552^{\circ}04'07''E$	
12+11.52				$(S 83^{\circ}35'37''E)$	
14+91.65 120.65 6+12.33	RT	① $18^{\circ}15'$ ② $36^{\circ}29'00''$ AV. $18^{\circ}14'30''$	120.68	$565^{\circ}21'07''E$	4.80

STA	OBJECT	ANGLE	DIST	BEARING	ELEV.
				L	
45+00.72		① $15^{\circ}11'00''$		$N87^{\circ}07'37''W$	
47+98.87 RT. 145.34		② $30^{\circ}22'00''$			10.0
46+53.53			145.34	$571^{\circ}56'37''E$	
50+45.78		① $11^{\circ}32'$		($584^{\circ}04'37''E$)	
51+98.63 RT. 48.89		② $23^{\circ}04'$	48.89	$572^{\circ}42'37''E$	10.0
51+49.74				($N84^{\circ}04'37''W$)	
50+45.78		① $65^{\circ}47'$		18-17	
51+98.63 RT. 73.94		② $131^{\circ}34'$	73.94	$N18^{\circ}17'37''W$	10.0
52+72.07					

LEVELS FOR MEAN HIGH TIDE SURVEY
OF WEST HALF TIERRA DEL FUEGO

ISLAND

STA	+ H.I.	- ELEV
	6.59	17.92
		10.83

#①

T.B.M.	11.20	15.92	12.71	4.72
--------	-------	-------	-------	------

T.P.	3.74	16.34	3.32	12.60
------	------	-------	------	-------

T.B.M.	6.07	18.82	3.59	12.75
--------	------	-------	------	-------

T.P.	6.04	19.02	5.89	12.98
------	------	-------	------	-------

T.P.	7.23	17.03	6.22	12.80
------	------	-------	------	-------

CHECK B.M.			10.81	10.82
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T.B.M.	2.47	15.23		12.76 ADJ
--------	------	-------	--	-----------

T.P.	4.85	14.58	5.50	9.73
------	------	-------	------	------

T.B.M. #③	4.59	17.45	1.72	12.86
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T.P.	3.51	16.95	4.01	13.49
------	------	-------	------	-------

		4.23	12.62
--	--	------	-------

T.B.M.	3.05	15.91		12.86
--------	------	-------	--	-------

T.P.	4.62	16.73	3.80	12.11
------	------	-------	------	-------

T.B.M. #④	5.51	19.20	3.09	13.75
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			ADJ.C.B.	13.75
--	--	--	----------	-------

				T.B.M. #⑤
--	--	--	--	-----------

(ADJ.C.B.) 13.75 T.B.M. #⑤

				13.69
--	--	--	--	-------

				13.69
--	--	--	--	-------

13.69 T.B.M. #⑤

				13.69
--	--	--	--	-------

				13.69
--	--	--	--	-------

				13.69
--	--	--	--	-------

12.86	13.19
3.05	5.51
15.91	15.20
7.80	6.02
12.71	13.18
4.62	4.97
16.73	18.15
3.09	7.34
13.69	12.77

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(23)

10.83	12.92
6.59	4.80
"CAUSEWAY"	12.72
	12.62
	4.72

N.W. CORNER OF HEAD WALL-YACHT POND INTAKE LINE

15.92	15.92
7.80	3.32
11.12	12.60
13.82	3.77
	11.59
	12.73
	6.07
	18.82

16.39	16.39
7.8	3.59
17.03	18.82
6.22	5.81
10.81	12.98
	6.07
	13.02

17.03	17.03
6.22	6.22
10.81	12.80
	7.23
	13.03
	10.83
	6.20

15.91	15.23
7.80	4.8
11.12	10.73
	12.76

"CAUSEWAY"	11.12
	10.73
	12.76

T.B.M. #2	"2x2" INTERSECTION OF YACHT PONDS/ROAD
	15.23
	5.50
	9.73
	4.85

12.80	16.94
7.99	12.76
16.11	19.58
3.67	1.72
3.80	12.86
	19.58

12.80	12.86
3.05	3.05
13.55	13.99
2.89	4.01
12.77	12.95
	16.95

12.77	13.55
16.94	13.99
15.91	4.23
	12.62

12.86	16.95
3.05	7.23
12.77	12.62
	16.95

13.18	16.73
4.97	7.80
12.11	11.93
18.15	
5.38	
16.73	
12.77	
3.09	
13.69	
5.51	
19.20	
6.02	
13.18	

MEAN HIGH TIDE SURVEY OF WEST HALF

TIERRA DEL FUEGO ISLAND

82.55
39.26
116.87
30.12
96.93

29

STATION	OBJECT	ANGLE	DIST	TO "BAY POINT" N 13° 36' 00" W	
	"BAY POINT"	① 33° 07' 30"		S 19° 31' 20" W S 19° 31' 00" W	STA-1+46.93
U.S.E.D △ "CAUSEWAY"	DEF. RIGHT (FIRST. POINT) 4.8 EL. STA-1+46.93	② 66° 15' 00"	196.93	33 07 30 13 36 13	52° 55' 45"
		AV. 33° 07' 30"		19 21 17 52 55 15 72 27 02 11 39 06 81 01 02 21 53 30	
	"CAUSEWAY"	① 52° 55'		108 09 32 173 59 40	17 35 20 108 09 33
1+46.93	DEF. RIGHT	② 105° 51' 30"	226.93	71 55 28 26 08 00	7 15 28
		AV. 52° 55' 45"		47 15 28 26 59 00 18 18 28 5 59 30 24 42 58 42 43 30 67 32 25	3+75.68 11 31' 00"
1+46.93		① 110 34'			
3+73.68	DEF. RIGHT	② 23° 08' 00"	79.83	584° 21' 25" W 27° 07' 44" N	4+53.51 24° 03' 30"
		AV. 110 34' 00"			
3+73.68		① 24° 09'			5+37.12 26° 08' 00"
4+53.51	DEF. RIGHT	② 48° 07' 00"	83.91	N 71° 55' 25" W N 71° 56' 37" W	6+15.71 26° 59' 00"
		AV. 24 03' 30"		24° 42' 58" W 158.03° 27+73.29 11 31' 00"	

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(25)

STATION	OBJECT	ANGLE	DIST
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7+53.51 ① $26^\circ 08'$

5+37.72 DEF. RIGHT ② $52^\circ 16' 00''$ 78.23 N $45^\circ 47' 25''W$
N $45^\circ 48' 55''W$

6+15.71 AV. $26^\circ 08' 00''$

$26^\circ 58'$

④ $-26^\circ 59' -$

53° 56' 00"

② $-53^\circ 58' 00''$ - 158.03 N $18^\circ 48' 25''W$
N $18^\circ 51' 13''W$

26° 58' 00"

STA-7+73.74 AV. $-26^\circ 59' 00''$

5+37.72

④ $-26^\circ 59' -$

53° 56' 00"

② $-53^\circ 58' 00''$ - 158.03 N $18^\circ 48' 25''W$
N $18^\circ 51' 13''W$

26° 58' 00"

STA-7+73.74 AV. $-26^\circ 59' 00''$

6+15.71 ① $05^\circ 55'$

7+73.74 LEFT
DEF. RIGHT ② $11^\circ 49' 00''$ 42.95 N $21^\circ 42' 58''W$
N $21^\circ 46' 01''W$

STA-8+16.69 AV. $05^\circ 59' 30''$

7+73.74 ① $42^\circ 50'$

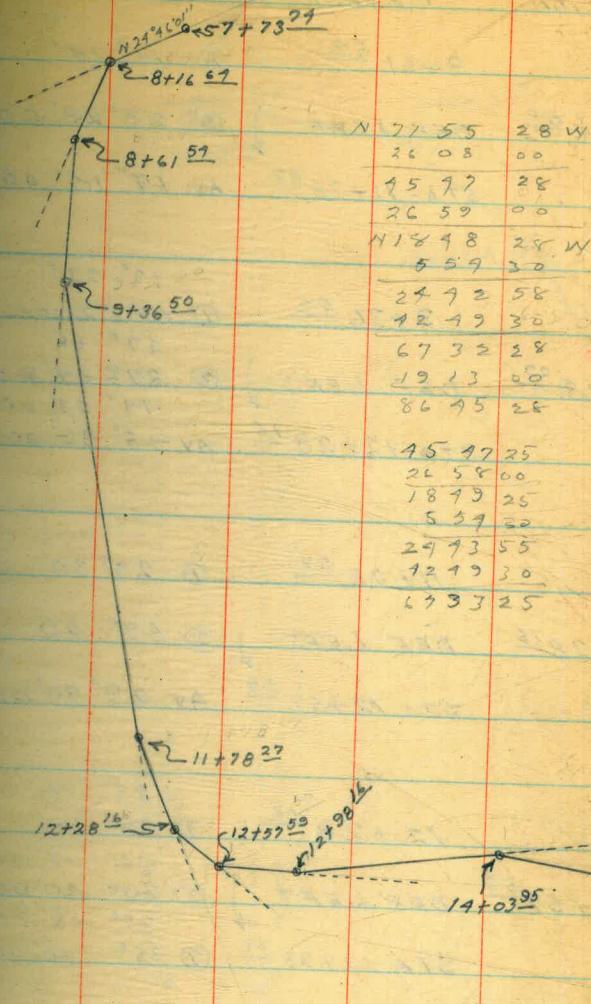
8+16.69 DEF. LEFT ② $85^\circ 39' 00''$ 44.90 N $67^\circ 32' 25''W$
N $67^\circ 35' 45''W$

STA-8+61.59 AV. $42^\circ 49' 30''$

8+16.69 ① $19^\circ 13'$

8+61.59 DEF. LEFT ② $38^\circ 26' 00''$ 79.96 N $86^\circ 45' 25''W$
N $86^\circ 45' 07''W$

STA-9+36.50 AV. $19^\circ 13' 00''$



N 71 55 28 W
26 08 00
45 97 28
26 59 00
N 18 48 28 W
5 59 30
24 92 58
42 49 30
67 32 28
19 13 00
86 45 28
15 47 25
26 58 00
18 49 25
5 59 22
24 93 55
12 49 30
63 33 25

STATION

OBJECT

ANGLE

DIST.

8+61 51 ① $11^{\circ} 11'$

9+36. 50 DEF LEFT ② $28^{\circ} 28' 00"$ 291.77
STA-11+78. 27 AV. $19^{\circ} 11' 00"$

$78^{\circ} 53' 35''$
 $579^{\circ} 00' 35'' W$
 $528^{\circ} 56' 35'' W$

12+98 15

14+03 05

15+13 27

(26)

X 9+36. 50 ① $13^{\circ} 33'$

10 11+78. 27 DEF LEFT ② $27^{\circ} 04' 00"$ 49.89 26'
STA-12+28 16 AV. $13^{\circ} 33' 00"$

$579^{\circ} 28' 35'' W$
 $54^{\circ} 23' 17'' W$

N 86 45 28 W

14 14 00

100 53 25

179 59 60

109 59 28

579 00 32 W

13 32 00

65 28 32

29 30 00

35 58 32

35 10

00 98 32

09 02 15

00 98 32

18+67 63

S 81 19 13 E

86 16 25 "

14 14 00

101 09 25

123 59 60

101 00 25

78 59 35

13 33 00

65 28 35

29 30 1

35 56 35

35 08 30

00 48 05 "

09 02 15

00 48 05

81 19 00

20+37 05

21+73 27

11+78. 27 ① $29^{\circ} 30'$

11 12+28 16 DEF LEFT ② $59^{\circ} 00$

STA-12+57 59 AV. $29^{\circ} 30' 00"$

29.93 $535^{\circ} 58' 35'' W$
 $51^{\circ} 52' 55'' W$

X 12+28. 16 ① $35^{\circ} 10'$

12+57 59 DEF LEFT ② $70^{\circ} 17' 00$

STA-12+98. 15 ③ $70^{\circ} 20' 00"$

40.57 $500^{\circ} 40' 35'' W$
 $50^{\circ} 49' 14'' W$

STA-12+98. 15 ③ $35^{\circ} 08' 30"$

STA-12+98. 15 ③ $35^{\circ} 10' 00"$

12+57. 59 ① $09^{\circ} 03'$

13 12+98. 15 DEF. LEFT ② $18^{\circ} 05' 30"$

STA-14+03. 25 AV. $09^{\circ} 02' 45"$

105.11 $58^{\circ} 19' 10'' E$
 $58^{\circ} 18' 52'' E$

86 16 25 "

14 14 00

101 09 25

123 59 60

101 00 25

78 59 35

13 33 00

65 28 35

29 30 1

35 56 35

35 08 30

00 48 05 "

09 02 15

00 48 05

81 19 00

STATION	OBJECT	ANGLE	DIST.	
14 14+03. ⁹⁵	DEF. RIGHT	① 17° 39'		102 20 51 30 86 93 00
14+03. ⁹⁵		② 35° 18' 00"	109.29	53° 29' 50" W 39° 19' 50" W
STA-15+13 ²⁹		AV. 17° 39' 00"		
14+03. ⁹⁵				
15 15+13. ²⁹	DEF. RIGHT	① 27° 41' 30"		
15+13. ²⁹		② 55° 23' 00	89.69	25° 50" 53° 06' 30" W 53° 01' 03" W
STA-16+03 ¹⁶		AV 27° 41' 30"		
15+13. ²⁹				
16 16+03. ¹⁴	DEF. RIGHT	① 24° 10'		
16+03. ¹⁴		② 48° 20' 00"	91.72	15° 50" 56° 16' 20" W 56° 16' 59" W
STA-16+99. ⁸⁵		AV. 24° 10' 00"		
16+03. ¹⁶				
17 16+99. ⁸⁵	DEF. RIGHT	① 20° 52'		
16+99. ⁸⁵		② 11° 43' 00"	172.78	20" 38° 07' 50" W 38° 01' 56" W
STA-18+67 ⁶³		20° 51' 30"		
STA-18+67 ⁶³		AV 20° 52' 30"		
16+99. ⁸⁵				
18 18+67. ⁶³	DEF. RIGHT	① 15° 15' 30"		
18+67. ⁶³		② 30° 31' 00"	169.42	37° 10" N82° 36' 46" W N82° 42' 53" W
STA 20+37. ⁰⁵		AV. 15° 15' 30"		
16+99. ⁸⁵				

STATION	OBJECT	ANGLE	DIST	
18+67. ⁶³	① 12° 43' 30"	5		2037.05 12632 2173.39 109.92
19 20+37. ⁰⁵	DEF RIGHT	② 25° 27' 30"	136.32 N 83° 35' 93" W N 69° 53' 70" W	N 83° 35' 93" W 2277.79 12 43 30 199.21 170 52 13 W 2425.00 19 50 00 145.69 151° 02' 13 W 2570.69 19 57 00 94.99 21 05 17 2665.68 11 30 30 19 34 73 14 05 75 N 05 28 58 W
20 21+73. ³⁷	20+37. ⁰⁵	① 19° 50'		N 82 35 73 W
21+73. ³⁷	DEF RIGHT	② 39° 10' 00"	104.92 N 30° 06' 10" W N 30° 09' 58" W	12 43 30 69 52 13 19 50 00 50 02 13 19 57 00 30 05 13 11 30 30 N 18 34 73 W
21+73. ³⁷		AY 19° 50' 00"		14 05 45 N 04 28 58 W
22+77. ⁷⁹	DEF RIGHT	① 19° 57'		82 37 10
STA-24+25 ⁰⁰	AV 19° 57' 00"			12 43 30 69 53 70 19 50 50 03 10 19 57
22+77. ⁷⁹		② 39° 59' 00"	197.21 N 30° 06' 10" W N 30° 13' 16" W	30 06 10
24+25. ⁰⁰	DEF RIGHT	① 11° 30'		11 30 30
25+70. ⁶⁹	AY 11° 30' 30"			18 34 10
24+25. ⁰⁰		② 23° 01' 00"	195.62 N 18° 35' 40" W N 18° 49' 04" W	19 05 45 730 25
25+70. ⁶⁹	DEF RIGHT	① 14° 06'		
26+65. ⁶⁸	AV. 14° 05' 45"			
			30° 55"	
			29.99 N 1° 29' 55" W N 1° 37' 37" W	

STATION	OBJECT	ANGLE	DIST	
24 25+70 ⁶⁹		① $16^{\circ} 34'$		26+65.68 1420.93 37,86.61 237,15
26+65 ⁶⁸	DEF RIGHT	② $32^{\circ} 47' 30''$	120.93' N11°53'50"E N11°45'50"E	16 23 45 5 28 58 100 59' 7 74 12 49 00 N 23 13 47 E 10 00 30 13 13 17 18 28 00
STA-27+86 ⁶¹		AV. $16^{\circ} 23' 45''$		30 29.96 85.86 31 09.62 83.27 31 72 89 96 53 32 89 42
X 26+65 ⁶⁸		12° 16' 30"		
25 27+86 ⁶¹	DEF RIGHT	① -12° 19' ② $24^{\circ} 38' 00''$	237.15 N24°12'50"E N14°02'17"E	5 19 43 25 08 00 30 22 43
STA 30+23. ⁷⁶		AV. +2° 19' 00" 12° 16' 45"		
27+86. ⁶¹		① $10^{\circ} 00'$		16 23 45 N 09 28 58 W
26 30+23. ⁷⁶	DEF. LEFT	② $20^{\circ} 01' 00''$	85.86 N14°12'20"E N14°01'29"E	N 17 59 47 E 12 19 00
STA 31+09. ⁶²		AV. $10^{\circ} 00' 30''$		24 13 47 10 00 30 19 13 17 18 28 00
30+23 ⁷⁶		① $18^{\circ} 28'$		1 15 17
27 31+09. ⁶²	DEF LEFT	② $36^{\circ} 56' 00''$	83.27 N11°15'40"W N40°26'49"W	16 23 45 N 19 30' 25" W
STA-31+92 ⁸⁹		AV $18^{\circ} 28' 00''$		
X 28 31+09 ⁶²		① $25^{\circ} 08'$		
28 31+92 ⁸⁹	DEF LEFT	② $50^{\circ} 16' 00''$	96.53 N18°23'40"W N20°35'07"W	N 17 53 20 E 12 16 15 24 00 05 10 00 30 19 09 35 18 28 00 19 09 35 1 18 25 25 08 00 29 26 25
STA-32+89. ¹²		AV. $25^{\circ} 08' 00''$		2° 45"

STATION	OBJECT	ANGLE	DIST
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<u>31+92 83</u>		① $20^\circ 17'$	
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<u>32+89 42</u>	DEF. LEFT	② $40^\circ 33' 00''$	72.53 N $49^\circ 40' 10''$ W N $49^\circ 51' 55''$ W
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<u>33+66 95</u>		AV. $20^\circ 16' 30''$	
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<u>32+89 42</u>		① $23^\circ 14'$	
-----------------	--	------------------	--

<u>33+66 95</u>	DEF LEFT	② $46^\circ 27' 30''$	193.80 N $71^\circ 53' 55''$ W N $71^\circ 05' 58''$ W
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<u>35+10 75</u>		AV. $23^\circ 13' 45''$	
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<u>33+66 95</u>		① $09^\circ 56'$	
-----------------	--	------------------	--

<u>35+10 75</u>	DEF LEFT	② $19^\circ 51' 00''$	75.18 N $32^\circ 48' 25''$ W N $32^\circ 01' 46''$ W
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<u>35+85 93</u>		AV. $09^\circ 55' 30''$	
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<u>35+10 75</u>		12° 24'	
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<u>35+85 93</u>	DEF RIGHT	② -12° 24'	24° 48' 00"
-----------------	-----------	------------	-------------

<u>36+73 21</u>		-12° 49' 30"	87.78 N $78^\circ 21' 40''$ W N $70^\circ 38' 07''$ W
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<u>35+10 75</u>		12° 24' 00"	
-----------------	--	-------------	--

<u>36+73 21</u>		AV. 12° 24' 45"	
-----------------	--	-----------------	--

<u>35+85 93</u>		① $06^\circ 16'$	
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<u>36+73 21</u>	DEF RIGHT	② 12° 32' 00"	110.78 N $69^\circ 00' 10''$ W N $69^\circ 22' 22''$ W
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<u>37+84 49</u>		AV. 06° 16' 00"	
-----------------	--	-----------------	--

5'		72 89 42
111		77.57
		33 64 35
		143 80
		354 075
		75.98
		20 16 30
		3585 93
		N 50 39 13 W
		87 78
		23 13 18
		367 3.71
		53 52 38
		10 078
		9 55 30
		3789.79
		N 83 48 28 W
		12 24 45
		N 71 23 43
		6 16
		N 65 07 43 W

N 29 26 25 VV	
20 16 30	
79 92 55	
23 13 15	
72 56 70	
9 55 30	
82 52 10	
12 24 00	
70 28 10	
6 16	
69 12 10	

8-6-98

(31)

STATION	OBJECT	ANGLE	DIST	
36+73 21	(1) DEF RIGHT	13° 12' 30"	N 65 07 43 W	37 89 19
37+89 19	(2) STA-39+39 82	26° 25' 00" AV. 13° 12' 30"	59' 40" N 50° 56' 10" W N 51° 10' 10" W	155.737 293982 15150 909132 17257 426389 17481 493870 80.71 9518.81
37+89 19	(1) DEF. RIGHT	12° 20'	21' 21° 43 00 21° 12' 30"	13 12 30 N 78 20 13 W 12 21 30 65° 58' 43" 16 13 00 19° 45' 43" 19 28 45 35 16 58 10 14 00
39+39 82	(2) 40+31 32	151.51 AV. 12° 21' 30"	38' 10" N 38° 39' 40" W N 39° 18' 58" W	N 25 02 58 W
39+39 82	(1) DEF. RIGHT	16° 13'	25' 10"	97 20 13 50 35 13 27 25 00
40+31 32	(2) 42+63 89	32° 26 00 AV. 16° 13' 00"	172.52 N 22 21' 40" W W 11° 36' 16" W	50 55 13 69 07 13 13 12 30 50 55 13 12 21 30 38 33 43 16 13 00 22 20 13 19 28 45 N 64° 12' 10" W 13 12 30 50 59 10 12 21 30 38 38 10 16 13 00 22 25 10 14 28 45 N 07 56 25 W 10 12 15 7 56 25 02 16 20
42+63 89	(1) DEF. RIGHT	14° 29'	56' 25"	07 51 58 10 14 00 7 51 58 20 22' 0 2"
42+63 89	(2) 44+38 20	28° 57' 30" AV. 19 28' 45"	129.81 N 07° 53' 55" W N 8° 07' 45" W	
44+38 20	(1) DEF. RIGHT	-10° 14'	10° 13' V	
	(2) 45+18 81	20° 25' 30"	20° 25' 30"	
		20° 28' 00"	16' 20'	
		10° 12' 45"	80.11 N 07° 21' 05" E N 05° 04' 35" E	
		10° 10' 00"	9' 45"	

S →
F/SIDE WINDOW WHITEHOUSE
YELLOW FARM GROUND

STATION	OBJECT	ANGLE	DIST	
	41+38 ⁷⁰	① 12° 29'		N 25° 02' 58" W 45 18 81
39	45+18 ⁸¹	DEF RIGHT ② 29° 17' 00" 103.98' N 19° 44' 35" E N 19° 27' 50" E		12 23 30 103.98
	46+22 ⁷⁹	AV. 12° 23' 30"		12 39 28 238.91
		11° 30'		11 31 00
X	45+18 ⁸¹	① 10° 31'		01° 8' 28" 4861.7 D
40	46+22 ⁷⁹	DEF RIGHT ② 23° 02' 00" 238.91 N 26° 15' 35" E 23° 00' 30" 10° 05' 125° 57' 47" E		20 46 30 5025 12
	48+61 ⁷¹	AV. 11° 31' 00" 530"		01 08 28 171 35
		11° 30' 15"		19° 38' 02" 3196 47
	46+22 ⁷⁹	① 20° 16' 30"		12 32 30 127.62
41	48+61 ⁷¹	DEF RIGHT ② 11° 33' 00" 162.42' N 19° 02' 05" E N 19° 43' 59" E		32° 10' 32" 5329 09
	STA-50+25 ¹²	AV 20° 16' 30"		12 22 30
	48+61 ⁷¹	① 12° 32'		N 49° 3' 3" D 2"E
42	50+25 ¹²	DEF. RIGHT ② 25° 05' 00" 171.35' N 35° 34' 35" E N 35° 16' 11" E		N 02° 22' 02" E
	51+96 ⁹⁷	AV 12° 32' 30"		12 23 30
		12° 21' 30"		19 45 32
X	50+25 ¹²	① 12° 22' 30" 127.62'		11 31 02
43	51+96 ⁹⁷	DEF. RIGHT ② 24° 43' 00" N 21° 57' 05" E 24° 45' 00" N 21° 59' 23" E		26 16 32
	53+24 ⁰⁹	AV 12° 21' 30" 6' 30"		20 46 30

STATION	OBJECT	ANGLE	DIST.
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44 51+96²² ① 12° 22' ✓
53+24⁰⁹ DEF RIGHT ② 29° 55' 00" 185.51 N 89° 29' 35" E
55+09⁶³ AV 12° 27' 30"

45 53+29⁰⁹ ① 5° 17' ✓
55+09⁶³ DEF. RIGHT ② 10° 33' 30" 307.60 N 89° 41' 20" E
58+17²³ AV 5° 16' 15"

46 55+09⁶³ ① 13° 30'
58+17²³ DEF. RIGHT ② 27° 01' 00"
59+26⁹⁷ AV +3° 45'

47 58+17²³ ① 27° 46' ✓
59+26⁹⁷ DEF. RT. ② 55° 32' 00" 97.30 S 42° 08' 10" E
60+29²² AV 27° 46' 00"

48 59+26⁹⁷ ① 58° 41' 30'
60+24²² DEF RIGHT ② 117 23 00 9130 S 09° 39' 20" W
61+15⁵⁷ AV. 58° 41' 30"

N 49° 33' 02" E 5329.09
12 27 30 1.85.59
57° 00' 32" 3509 63
5 16 45 307 60
62° 17' 15" 5817.23
13° 30 30 109.24
73 17 17 5926.97
27 96 00 22.30
93 33 19 6029.27
179 59 60 91.30
93 33 17 6115.57
86 26 13
58 11 30
27 44 93

91
27 31
13 35 30
12 45

92
10

61 N 71 58 02 E
12 27 30
89 25 32
5 16 45
89 39 50
13 20 30
103 05 20
179 59 60
103 05 20
76 51 50
27 46 00
19 08 10
58 41 30
49 08 10
5 32 50
576 97 13
27 46 00
19 01 13
58 41 30
49 01 13
49 01 13
99 01 13
99 01 13

STATION	OBJECT	ANGLE	DIST				
X	60 + 29 ²⁷	① 12° 07' 30" ✓		57	117		
+9		② 12° 06'					
61 + 15 ⁵⁷	DEF LEFT	21° 15' 30"	215.27	34'55"			
		② 21° 12' 30"		502°26'55"E			
		12° 07' 15"		S02°19'55"E			
63 + 30 ⁸⁹	AV.	72° 06' 15"		(8'00")	107		
		07° 53'		7 53 30			
61 + 15 ⁵⁷	DEF LEFT	① 07° 58'					
50		15° 47' 00"		63° 18' 25"			
63 + 30 ⁸⁹	DEF LEFT	② 75° 57' 00"	58.17	310° 25' 35"E			
		070 53' 30"		S10° 43' 43"E			
63 89 ⁰¹	AV.	02° 58' 30"		27'00"			
		19° 50'		7 20			
63 + 30 ⁸⁹	DEF LEFT	① 19° 49'					
51		19° 42'					
		39° 34' 00"		18'55"			
63 + 89 ⁰¹	DEF LEFT	② 38° 28' 00"	83.82	330° 18' 25"E			
		-19° 47' 00"		S30° 39' 31"E			
64 + 72 ⁸³	AV.	79° 49' 30"		(6'20")			
		19° 50' 30"					
63 + 89 ⁰¹	DEF LEFT	① 23° 30' 30"					
52		23° 28'					
		47° 01' 06"					
64 + 72 ⁸³	DEF LEFT	② 46° 57' 00"	96.20'	45'25"			
		23° 30' 30"		553° 40' 58"E			
65 + 69 ⁰³	AV.	23° 28' 30"		S54° 05' 19"E			
		22° 35' 00"		3'30"			
64 + 72 ⁸³	DEF LEFT	① 22° 37' 30"					
53		45° 11' 00"					
65 + 69 ⁰³	DEF LEFT	② 45° 15' 00"	111.60	24'55"			
		22° 35' 30"		57° 18' 25"E			
66 + 80 ⁶³	AV.	22° 37' 30"		S76° 41' 07"E			
		22° 35' 30"		76 29 55			

STATION	OBJECT	ANGLE	DIST	BEARING	
54	65+69 03	① 25° 41' 51° 21' 30"	② 25° 40'	25° 41' 30"	6680.63
	DEF LEFT	② 51° 19' 30"	100.79'	97° 59' 20" N78° 01' 50"E N77° 37' 50"E	100.77
	67+81 10	25° 40' 45"	AV. 25° 39' 45"		6781.90
					90.73
55	66+80 63	① 18° 40'	② 37° 20	N 66 17 32E 29 39 15 36 37 47 18 40 00 N 17 57 47E 29 11 45 17 57 47 06 13 58 14 16 30 20 30 28 17 09 00 37 39 28	6872.13 87.05 6959.48 89.06 7018.27 68.27 71.16.48
	DEF LEFT	② 37° 20	90.73	N50° 31' 50"E N58° 57' 32"E	
	68+72 13	AV 18° 40' 0 0"			
56	67+81 10	① 24° 11' 30"	② 48° 23' 30"	82.05' N75° 10' 05"E N74° 49' 29"E	76 17 28 25 39 45 101 57 13
	DEF LEFT	② 48° 23' 30"	82.05'	576 29 55 E 25 10 75	
	69+59 18	AV. 24° 11' 45"		102 05 40 179 59 60 102 05 40	179 59 60
				N 97 59 20 E 18 40 00 59 14 20	78 02 47
57	68+72 13	① 14° 16' 30"	② 28° 33' 00	89.06' N20° 53' 35"E N20° 28' 41"E	18 40 59 22 17 24 11 45 35 11 02
	DEF LEFT	② 28° 33' 00	89.06'	35 02 35 14 16 30	
	70+98 29	AV. 14° 16' 30"		20 16 05 17 09 00 03 37 05	14 16 30 20 54 32 17 09 00 03 45 32
58	69+59 18	① 17° 09'	② 34° 18' 00"	68.24 N03° 49' 35"E N 3° 19' 23"E	03
	DEF LEFT	② 34° 18' 00"	68.24		
	71+16 18	AV 17° 09' 00"			

STATION	OBJECT	ANGLE	DIST	BEARING
70+48 ²⁹	① 22° 09'			N 37° 39' 28" W 22 09 00 7116.48 88.03
71+16 ⁴⁸	DEF LEFT	② 49° 18' 00" 88.03	N 18° 21' 25" W N 18° 49' 55" W	✓ 31'55" N 59° 18' 28" W 09 07 30 7209.51 65.62
72+09 ⁵¹		AV 22° 09' 00"		52 10 58 19 00 30 7290.17 78.21
				33 40 28 12 35 30 7348.37 65.04
71+16 ⁴⁸	① 07° 08'			21 09 58 23° 33' 00 21 09 58 7713.38 76.30 7989.68
72+09 ⁵¹	DEF RIGHT	② 14° 15' 65.62'	N 18° 16' 55" N N 18° 42' 43" W	02° 28' 02
72+70 ¹³	AV	07° 07' 30"		
72+09 ⁵¹	① 19° 01'			22 09 00 N 3 45 32 E N 18° 23' 28" W 7 07 30
72+70 ¹³	DEF RIGHT	② 38° 01' 00" 78.21	N 01° 43' 35" E N 01° 17' 25" E	36'05" X X X 11 15 58
73+70 ³⁹	AV.	19° 00' 30"		19 00 30
72+70 ¹³	① 16° 35' 30"			22 09 00 N 03 37 05 E 18 31 55 07 07 30 11 24 25 19 00 30 11 24 25 7 36 05 16 35 30 29 11 35 23 33 00 49 44 35
73+98 ³⁹	DEF RIGHT	② 33° 11' 00" 65.09'	N 23° 13' 05" E N 23° 52' 41" E	11 35" 07 44 02 12 35 30 20 19 32 23 33 00 43 52 32
74+13 ³⁸	AV.	16° 35' 30"		
73+48 ³⁹	① 23° 33'			
74+13 ³⁸	DEF. RIGHT	② 47° 06' 00" 76.30	N 47° 02' 05" E N 47° 25' 23" E	44'35"
74+89 ⁶⁸	AV.	23° 33' 00"		

STATION	OBJECT	ANGLE	DIST	BEARING	
64	74+13 <u>38</u>	*16° 46' 30"			29.12 82.70
74+89 <u>68</u>	DEF RIGHT	(1) 16° 45' 1" 33° 33' 00" (2) 33' 31' 00" 88.08 N 69° 37' 35" E 16 46 30 N 69° 11' 35" E	31' 05"	N 02° 28' 02" E 16 15 30 N 19° 13' 32" E 10 06 15 29 19 77 80 40 40 100.00 27	7489.68 88.08 7577.70 177.17 7757.93 111.79 7866.72 90° 122 3 76" 1/120
65	75+77 <u>75</u>	74+89 <u>68</u> (1) 10° 06' 30" K (2) 20° 12' 30" 177.17 N 79° 43' 50" E N 79° 17' 36" E	37' 23"	58° 53' 33" E 14° 51' 00" 5750' 8' 3' 3" E 10 11 36 69 56 57	29.96 81.83 111.79
66	75+77 <u>76</u>	77+59 <u>93</u> (1) 80° 41" K (2) 161° 22"	82' 80"	N 79 44 17 F 80 11 00 153 25 17 155	179 59 60 158 25 17 2432 73 1951 30
67	77+59 <u>93</u>	DEF. RIGHT STA-102+00 CAUSEWY B/L. =STA-78+66 <u>72</u>	111.79 529° 02' 00" E 529° 02' 00" E	BAY POINT 5° 58' 11° 56' 00"	9 43 13 29 72
68	STA-96+00 CAU.B/L (CAUSEWAY B/L)	102+00 DEF LEFT (LAST PT. ON M.H.T. LINE)	(1) 19° 51" (2) 29° 42' 00" 500' 43' 33" E 518° 11' 18" E	S 25° 02' 00" E 5 58 00 19° 09 00	19° 51' 00" CAUSEWY B/L 25 12 57 5 58 20° 14 57
69	U.S.E.D. A "BAY POINT"	77+59 <u>93</u> AV 19° 51' 00"	51' 00"	N 47 44 35 E 16 46 30 67 31 05 10 06 15 N 79 37 20 E N 79 04' 00" W 80 40 40 155 18 00 155 18 00 24 72 00	10 11 36 9 44 33 0° 27' 03" K 20 36 29 42 00 19 51 9 51 00
70	CAUSEWAY B/L	102+00 DEF LEFT (LAST PT. ON M.H.T. LINE)	77+59 <u>93</u> AV 5° 58' 00"		

LEVELS FOR MEAN HIGH TIDE SURVEY OF WEST HALF - TIERRA DEL FUEGO ISLAND

8-12-48

(38)

STATION	H.H.	-	ELEV	FROM PAGE (23)	
T.B.M. #4	3.89	17.59	13.75	13.75	13.89
	2.90	16.77	3.72 13.87	3.89	2.92
	3.45	15.76	4.46 12.31	17.59	16.77
	4.41	16.97	3.20 12.56	12.31	
T.B.M. STA-102+00 CAUSEWAY B/L.			4.78 12.19	15.76	
TRAVERSE TIE OF PT. (#29) (M.H.T.L.) (STA-32+89 ⁹²) STA-89+00 CAUSEWAY B/L.				3.20	
				12.56	
				4.91	
				16.97	
				9.78	
				12.19	

STATION	OBJECT	ANGLE	DIST
STA-76+00 CAUSEWAY B/L.		① 96° 28'	
STA-89+00 (CAUSEWAY B/L.)	INT. RIGHT STA-32+89 ⁹²	③ 289° 23'00"	1513.83' 586° 16'04" W
PT. #29 M.H.T.L.		AV. 96° 27'40"	

FINAL SOUNDINGS PROV. #9 8-25-48

"CDE" SECTION.

STA. N 116+00

0+00 = STA N. 116+00 PI-P5 B/L
SOUND WEST

DIST. SOUND

13:27

0+00 5.0 +0.1

DIST. SOUND

13:31

+70 13.9 -8.8

DIST. SOUND

13:34

740

14.0 -8.9

DIST. SOUND

+30

12.3

-7.2

PX PX ⑦9

DIST. SOUND

13:27

+10 4.8 +0.3

DIST. SOUND

13:31

13.9 —

(5.1)

14.1 -9.0

12.3

—

(5.1) 5.1 -0.1

14.0 -8.9

14.0 -8.9

+50 12.2 -2.1

6.0 -0.9

2+00 14.0 —

14.0 -8.9

(5.1) 11.5 -6.9

11.9 -6.8

14.0 —

14.0 —

13:38 10.9 -5.8

+50 14.0 -8.9

(5.1) 14.0 —

13.9 -8.8

6+00 9.5 -4.1

13.5 -8.9

13.7 -8.6

13.9 —

13.4 -8.3

13.9 -8.8

14.0 -8.9

13.4 -8.3

+50 13.7 -8.6

14.1 -9.0

13.5 -8.9

13.8 -8.7

+50 17.3 -9.2

1+00 13.7 -8.6

13.6 -8.5

14.3 —

13.8 -8.7

13.5 -8.1

13.7 -8.6

13.9 -8.8

13.5 —

12.9 -7.8

14.0 -8.9

3+00 13.8 -8.7

12.1 -7.0

14.2 -9.1

13.8 —

5+00 12.2 -7.1

14.1 -9.0

13.8 —

12.1 -7.0

+60 14.1 —

+30 13.9 -8.8

+20 12.2 -7.1

STA. N 120+00

8-25-98

0400 = STA. N. 120+00 P'P5 B/L

SOUND WEST

DIST	SOUND	DIST.	SOUND	PX
13:51				
0+00	5.2	-0.1	+80	14.1 -9.0
+10	5.2	—	(5.1)	14.1 —
(5.1)	5.0	+0.1	2+00	14.0 -8.9
	5.2	-0.1		14.0 —
10.1	-5.0			14.3 -9.2
+50	13.1	-8.0		14.5 -9.1
	13.6	-8.5		13.3 -8.2
	13.6	—	+50	12.8 -7.7
	13.8	-8.7		12.8 —
	14.0	-8.9		13.0 -7.9
1400	14.1	-9.0		13.1 -8.0
	14.0	-8.9		13.1 —
	13.9	-8.8	3+00	13.1 —
	14.0	-8.9		13.2 -8.1
	14.2	-9.1		13.8 -8.7
+50	14.3	-9.2		14.0 -8.5
	14.4	-9.3		14.4 -9.0
+70	14.1	-9.0	+50	14.2 -9.1

N 120+00 CON'T

DIST.	SOUND	DIST.	SOUND
13:58		14:00	
+60	14.3 -9.2	+50	5.8 -0.7
(5.1)	14.7 -9.6	(5.1)	4.5 +0.6
	15.0 -9.9		3.2 +1.9
	15.1 -10.0		2.8 +2.3
	4+00 15.2 -10.1		2.6 +2.5
	15.5 -10.1	6+00	
	15.2 -10.1		
	14.1 -9.0		
	12.8 -7.7		
	+50 12.4 -7.3		
	12.1 -7.0		
	11.8 -6.7		
	10.9 -5.8		
	10.0 -4.9		
	+400 9.4 -4.3		
	9.0 -3.9		
	9.2 -7.1		
	8.0 -2.9		
	+40 6.9 -1.8		

PX

(10)

STA. N 119+00

8-25-48

0+00 = STA N 119+00 P/P5 B/L

SOUND WEST

DIST.	SOUND	DIST.	SOUND	DIST.	SOUND
14:10					
0+00	4.9 +0.2	+80	13.7 -8.6	(5.1)	13.4 -8.3
+10	4.9 —	(5.1)	13.9 -8.8	(5.1)	13.5 -8.7
(5.1)	4.9 —	2+00	13.9 —		13.5 -8.4
	7.9 —		13.9 —		4+00 13.0 -7.9
	9.5 -1.4		13.9 —		12.9 -7.8 6+00
+50	12.8 -7.7		13.8 -8.7		12.8 -7.7
	13.0 -7.9		13.3 -8.2		13.7 -8.0
	13.2 -8.1	+50	13.1 -8.0		12.8 -7.7
	13.4 -8.3		13.0 -7.9	+50	12.8 —
	13.6 -8.5		13.0 —		12.8 —
1+00	13.3 -8.2		13.1 -8.0		12.8 —
	13.3 —		13.0 -7.9		12.8 —
	13.4 -8.3	3+00	13.1 -8.0		12.9 -7.8
	13.5 -8.1		13.0 -7.9	5+00	12.9 —
	13.7 -8.6		13.0 —		13.0 -7.9
+50	13.9 -8.8		13.2 -8.1		12.6 -7.5
	13.8 -8.7		13.2 —		11.2 -6.1
+70	13.7 -8.6	+50	13.3 -8.2	+40	8.1 -3.0

STA. N 119+00

CONT.

PX

41

DIST.	SOUND	DIST.	SOUND
14:17			
+60	13.4 -8.3	(5.1)	13.5 -8.7
			13.7 -8.6
			13.5 -8.4
		4+00	13.0 -7.9
			12.9 -7.8 6+00
			12.8 -7.7
			13.7 -8.0
			12.8 -7.7
		+50	12.8 —
			12.8 —
			12.8 —
			12.8 —
			12.8 —
			12.9 -7.8
			12.9 —
			13.0 -7.9
			12.6 -7.5
			11.2 -6.1
			8.1 -3.0

STA. N 118+00 8-25-78

0400 = STA. N 118+00 ON P'P5 B/L

SOUND WEST

DIST. SOUND

14:27

0400

4.9

+0.1

DIST. SOUND

14:30

+80

13.9

-8.9

DIST. SOUND

14:32

160

13.1

-8.1

DIST. SOUND

+50

+50

+10

4.8

+0.2

(5.0)

13.9

—

13.2 - 8.2

(5.0)

4.9

+0.1

2+00

13.8

-8.8

13.1 - 8.1

6.2

-1.2

14.0

-9.0

—

4+00

13.1

—

11.5

-6.5

14.1

-9.1

—

13.1 —

6+00

+50

13.3

-8.3

14.5

-9.5

—

12.8 - 7.8

13.5

-8.5

14.1

-9.1

—

12.7 - 7.7

13.8

-8.8

+50

13.2

-8.2

—

12.2 - 7.2

14.0

-9.0

12.7

-7.7

—

+50 12.1 - 7.1

14.1

-9.1

12.5

-7.5

—

12.2 - 7.2

1+00

14.0

-9.0

12.8

-7.8

—

12.4 - 7.4

14.1

-9.1

12.8

—

12.3 - 7.3

14.1

—

3+00

12.6

-7.6

—

14:34 12.3 —

14.0

-9.0

12.5

-7.5

—

5+00 12.0 - 7.0

14.1

-9.1

12.8

-7.8

—

11.9 - 6.9

+50

14.1

—

12.9

-7.9

—

11:33 12.3 —

14.0

-9.0

13.0

-8.0

—

11:55 12.3 —

+70

13.9

-8.9

+50

13.2

-8.2

—

+40 12.3 —

STA N 118+00 CONT.

42

DIST. SOUND

PX

DIST. SOUND

14:32

160

13.1

-8.1

+50

+50

—

13.2 - 8.2

13.1 - 8.1

13.1 —

12.8 - 7.8

12.7 - 7.7

12.2 - 7.2

12.1 - 7.1

12.2 - 7.2

12.4 - 7.4

12.3 - 7.3

12.3 —

12.0 - 7.0

11.9 - 6.9

12.3 —

11:33 12.3 —

12.3 —

12.3 —

STA N. 107+00

8-25-48

0+00 - STA. N. 107+00 ON P'P5 B/L

SOUND WEST

DIST SOUND

14:54

0+00

6.5 - 1.7

DIST SOUND

14:58

+80

12.8 - 8.0

DIST SOUND

15:00

+60

13.3 - 8.6

+10

4.9

- 0.1

7.8

12.8

—

13.4 - 8.7

4.8

3.0

+1.8

2+00

13.0

- 8.2

13.7

- 9.0

4.0 + 0.8

13.1 - 8.3

+100

13.1

- 8.4

13.1

- 8.9

8.7 - 3.9

13.1

—

13.2

- 8.5

3.2 + 1.6

+50

14.1

- 9.3

13.2

- 8.4

13.5

- 8.8

3.1 + 1.7

14.9 - 10.1

13.2

—

13.8

- 9.1

3.0 + 1.8

14.0 - 9.2

+50

13.5

- 8.7

13.2

- 8.5

14.4 - 9.6

13.5

—

+50

13.6

- 8.9

3.1 + 1.7

14.5 - 9.7

13.5

—

13.2

- 8.5

3.1 + 1.7

1+00

14.3

- 9.5

13.5

—

13.0

- 8.3

3.5 - 8.8

13.3 - 8.5

13.1

- 8.3

13.1

- 8.7

3.7 - 9.0

13.1 - 8.3

3+00

13.1

—

12.7

- 8.0

3.8 - 9.1

13.1 —

12.9

- 8.1

5+00

13.2

- 8.5

3.1 - 8.9

13.2 - 8.4

12.9

—

14.3

- 9.6

3.1 - 8.9

+50

13.2

—

13.0

- 8.2

14.0

- 9.3

3.2 - 8.3

13.2 —

13.0

—

13.8

- 9.1

3.2 - 8.3

+70

13.1

- 8.3

+50

13.3

- 8.5

+40

13.2

- 8.5

3.2 - 8.0

3.2 - 8.0

3.2 - 8.0

3.2 - 8.0

STA N. 107+00 CONT.

(73)

DIST. SOUND

SOUND EAST

14:43

0+00

6.5

- 1.9

+10

3.3

+ 1.5

3.3

—

4.8

3.1

+ 1.7

3.2

+ 1.6

+50

3.1

+ 1.7

+50

12.9

- 8.2

4.7

13.0

- 8.3

13.5

- 8.8

3.7

- 9.0

13.8

- 9.1

+50

13.1

- 8.9

+10

13.1

- 8.9

+20

13.0

- 8.3

+30

12.6

- 7.9

+40

12.2

- 7.5

+50

12.2

- 7.5

+60

12.3

- 7.6

+70

12.8

- 8.1

+80

12.7

- 8.0

+90

12.7

- 8.0

+100

12.7

- 8.0

STA N. 108+00 8-25-98
0+00 = STA N. 108+00 PIP5 B/L

SOUND WEST

DIST SOUND
15:17
0+00 2.1

+10 2.1

(4.6) 2.1

6.1

10.9

+50 11.5

12.0

12.1

13.0

12.8

+100 12.8

12.9

13.0

13.1

13.1

+50 13.2

13.3

+70 13.4

STA N. 108+00 8-25-98

DIST SOUND

15:21
+80 13.8

(4.6) 13.2

2+00 13.1

(G) 13.1

13.2

13.2

+50 13.5 - 8.9

12.0 - 7.9

9.0 - 9.9

9.5 - 9.9

10.9 - 6.3

3+00 12.2 - 7.6

12.4 - 7.0

12.5

12.9

12.9

+50 12.5

STA N. 108+00 Cont.

(4)

DIST SOUND

15:24
+60 12.5

(4.6) 12.7

12.3

12.7

4+00 12.5

13.2

13.2

13.2

+50 13.5 - 8.9

12.0 - 7.9

9.0 - 9.9

9.5 - 9.9

10.9 - 6.3

5+00 12.5

12.5

12.5

12.5

+40 12.5

DIST SOUND

+50 12.5

12.3

12.7

12.5

6+00 12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

12.5

INCOMPLETE
RE-SOUNDED

10
(C)

STA. N. 108+00 PY 8-26-48

0+00 = STA. N. 108+00 P'P5 B/L
SOUND WEST

DIST	SOUND	DIST	SOUND	DIST	SOUND
10:41		+80	12.9 -9.2	(3.7)	12.1 -
0+00	1.0 +2.6	2+00	12.7 -9.0	12.1 -	(3.7) 12.1 -
+10	1.1 +2.5			12.1 -	12.0 -8.3
(3.6)	1.1 +2.5			12.1 -	11.6 -7.9
4.9	-1.3		12.0 -8.3	4+00	12.0 -8.3
9.9	-6.3		12.2 -8.5	12.1 -8.4	0+00 11.5 -7.8
+50	10.2 -6.6		12.2 -8.5	12.7 -9.0	11.3 -7.6
10.9	-7.3		12.0 -8.3	13.0 -9.3	11.5 -7.8
10:45	10.9 -7.3	+50	12.7 -9.0	13.0 -	11.6 -7.9
10:58	11.0 -7.3		12.7 -9.0	+50	12.9 -9.2
(3.7)	11.2 -7.5		12.4 -8.7	13.0 -9.3	+50 11.5 -
1+00	11.6 -7.9		12.1 -8.4	12.8 -9.1	11.6 -7.9
11.5	-7.8		12.1 -	12.1 -8.4	11.4 -7.7
11.9	-8.2	3+00	12.1 -	12.0 -8.3	11.8 -8.1
12.2	-8.5		12.2 -8.5	5+00	12.0 -
12.0	-8.3		12.2 -	12.0 -	7+00 11.9 -8.2
+50	12.2 -8.5		12.2 -	12.0 -	11:04 11.7 -8.0
12.5	-8.8		12.0 -8.3	12.0 -	
+70	12.6 -8.9	+50	12.0 -	+70	12.1 -8.4

STA N 108+00 CONT.

(75)

DIST	SOUND	DIST	SOUND
11:00		+60	12.1 -8.4
		(3.7)	12.1 -
		12.1 -	(3.7) 12.1 -
		12.1 -	12.0 -8.3
		12.1 -	11.6 -7.9
		12.1 -	11.7 -8.0
		12.1 -	11.5 -7.8
		12.7 -9.0	11.3 -7.6
		13.0 -9.3	11.5 -7.8
		13.0 -9.3	11.5 -
		12.8 -9.1	11.6 -7.9
		12.1 -8.4	11.4 -7.7
		12.0 -8.3	11.8 -8.1
		12.0 -	11.7 -8.0
		12.0 -	11.9 -8.2
		12.0 -	11.7 -8.0
		12.0 -	
		12.1 -8.4	

STA. N. 109+00

8-26-48

0+00 = STA N. 109+00 PIPS B/L
SOUND WEST

DIST SOUND

11:10

0+00

1.6

+2.2

DIST SOUND

11:14

+80

11.9

-8.1

PX

DIST SOUND

11:17

+60

(3.9)

12.3

-8.4

DIST SOUND

+50

(3.9)

12.3

-8.4

DIST SOUND	DIST SOUND	DIST SOUND
11:10	11:14	11:17
0+00 1.6 +2.2	+80 11.9 -8.1	(3.9) 12.3 -8.4
+10 1.6 +2.2	(3.8) 11.9 -	12.6 -8.7
(3.8) 1.7 +2.1	2+00 11.8 -8.0	12.7 -8.8
7.0 -3.2	11.7 -7.9	12.8 -8.9
11.3 -7.5	11.8 -8.0	11.6 -7.7
+50 11.7 -7.9	11.7 -7.9	11.7 -7.8
11.6 -7.8	11.8 -8.0	11.8 -7.9
11.9 -8.1	+50 12.0 -8.2	12.8 -
12.0 -8.2	12.1 -8.3	12.7 -
12.2 -8.4	12.0 -8.2	12.6 -8.7
1+00 12.2 -8.4	11.9 -8.1	+50 12.8 -8.9
12.0 -8.2	11.7 -7.9	11.8 -7.9
12.1 -8.3	3+00 11.7 -7.9	11.5 -7.6
12.1 -	11.4 -7.6	11.8 -
12.0 -8.2	11.7 -7.9	11.8 -
+50 12.1 -8.3	11.9 -8.1	11.8 -
11.9 -8.1	12.0 -8.2	12.2 -8.3
+70 11.9 -8.1	+50 12.2 -8.4	+40 12.2 -8.3

STA. N. 109+00

CONT.

96

DIST SOUND

11:20

7+00

12.1

-8.2

DIST SOUND

11:20

7+00

12.4

-8.5

STA. N 110+00				8-26-48	STA. N 110+00 CONT.			
0+00 = STA N. 110+00 PI-P5 B/L				DIST.	SOUND	DIST.	SOUND	
SOUND		WEST						
DIST	SOUND	DIST.	SOUND	PX				
11.27				11:32				
0+00	2.0	+2.0	+80	+60	12.9	+50	13.1	
+10	2.1	+1.9	(4.0)	11.9	-7.9	(4.0)	12.5	
(4.0)	2.1	-	2+00	11.9	-	12.9	-8.9	
7.5	-3.5		12.0	-8.0	+400	12.7	-8.7	
11.4	-7.4		12.0	-		12.8	-8.8	
+50	11.5	-7.5	12.0	-		12.9	-8.9	
11.6	-7.6		12.4	-8.4		12.8	-8.8	
11.4	-7.4	+50	12.1	-8.1		12.3	-8.3	
11.8	-7.8		12.0	-8.0	+50	12.4	-8.4	
12.0	-8.0		11.8	-7.8		12.3	-8.3	
1400	11.8	-7.8	11.7	-7.7		12.1	-8.1	
11.8	-		12.1	-8.1		12.1	-	
11.9	-7.9	3+00	12.1	-		12.7	-8.7	
11.9	-		12.7	-8.7	5+00	12.8	-8.8	
11.9	-		12.8	-8.8		12.8	-	
+50	11.8	-7.8	12.8	-		13.1	-9.1	
11.8	-		12.7	-8.7		13.1	-	
+70	11.8	-	+50	12.8	-8.8	+40	13.1	

(77)

STA. N 111+00

8-26-48

0+00 = STA. N 111+00 PHPS B/L

SOUND WEST

DIST SOUND DIST SOUND

13:17
0+00 3.0 +1.8

+80 13.3 -8.5

PX

DIST SOUND

13:23
+60

12.7 -7.9

DIST SOUND

13:25
+50

12.0 -7.2

+10 3.0 — (4.8) 13.4 -8.6

12.7 -7.9

(4.8) 3.0 — 2+00 13.7 -8.9

12.5 -7.7

4.4 +0.4 13.6 -8.8

4+00 12.2 -7.4

12.6 -7.8

10.0 -5.2 14.8 -10.0

12.3 -7.5

+50 11.7 -6.9 14.0 -9.2

12.3 —

11.9 -7.1 13.0 -8.2

12.9 -8.1

11.6 -6.8 +50 12.9 -8.1

13.1 -8.3

13.3 -8.5 13.1 -8.3

+50 13.5 -8.7

14.1 -9.3

12.9 -8.1 13.0 -8.2

13.0 -8.2

+50 14.5 -9.7

1+00 12.8 -8.0 13.1 -8.3

13.0 —

14.9 -10.1

12.5 -7.7 13.4 -8.6

12.9 -8.1

15.0 -10.2

12.5 — 3+00 13.1 -8.3

12.8 -8.0

14.9 -10.1

12.9 -8.1 13.0 -8.2

5+00 12.2 -7.4

13:28 15.3 -10.5

13.3 -8.5 13.0 —

12.8 -8.0

7+00 14.5 -10.7

+50 13.5 -8.7 13.0 —

12.8 —

+10 14.5 —

13.2 -8.4 12.6 -7.8

12.7 -7.9

+20 14.0 —

+70 13.3 -8.5 +50 12.6 —

+40 12.4 -7.6

+30 14.0 —

+90 13.5 —

+50 13.0 —

+60 12.0 —

STA. N 111+00 CONT. PX

(98)

DIST SOUND

13:25

+50

12.0 -7.2

4.8

12.1 -7.3

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

4.8

12.5 -7.7

12.6 -7.8

STA. N 112+00			8-26-48
0+00 = STA. N 112+00 P1P5	B/L	PX	
SOUND WEST			
DIST.	SOUND	DIST.	SOUND
0+00	3.3 +1.7	+80	13.6 -8.6
13.55			
+10	3.4 +1.6	(5.0)	13.8 -8.8
(5.0)	3.6 +1.4	2+00	13.8 -8.8
	3.9 +1.1		13.9 -8.9
	4.8 +0.2		13.9 -8.9
+50	11.0 -6.0		13.8 -8.8
	13.0 -8.0		13.4 -8.4
	12.9 -7.9	+50	13.3 -8.3
	12.9 -7.9		13.9 -8.9
	12.8 -7.8		14.0 -9.0
1+00	12.7 -7.7		13.9 -8.9
	12.3 -7.3		13.8 -8.8
	12.5 -7.5	3+00	13.4 -8.4
	13.1 -8.1		13.4 -8.4
	13.2 -8.2		13.2 -8.2
+50	13.1 -8.1		13.2 -8.2
	13.3 -8.3		13.3 -8.3
+70	13.3 -8.3	+50	13.2 -8.2

STA. N 112+00 CONT.			(79)
DIST.	SOUND	DIST.	SOUND
14:02			
+60	13.2 -8.2	(5.0)	13.0 -8.0
		13.0	—
		13.0	—
		12.9	—
		12.9	—
		13.9	-8.9
		13.8	-8.8
		13.5	-8.5
		13.6	-8.6
		13.6	-8.6
		14.0	-9.0
		14.6	-9.6
		14.5	-9.5
		14.9	-9.9
		14.4	-9.4
		14.0	-9.0
		13.8	-8.8
		14.2	-9.2
		14.2	-9.2
		14.0	-9.0
		13.0	-8.0
		12.5	-7.5
		11.3	-6.3
		12.8	-8.8

STA. N 113+00

8-26-48

0+00 = STA. N. 113+00 PI PS B/L

SOUND WEST

DIST	SOUND	DIST.	SOUND	PX
14:12		14:17		
0+00	4.1 +0.9	+80	13.5 -8.5	

+10	4.0 +1.0	(5.0)	13.3 -8.3
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(5.0)	3.9 +1.1	2+00	13.2 -8.2
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3.9 +1.1		13.0 -8.0
----------	--	-----------

8.4 -3.4		13.1 -8.1
----------	--	-----------

+50	13.0 -8.0		13.0 -8.0
-----	-----------	--	-----------

13.5 -8.5		12.8 -7.8
-----------	--	-----------

13.3 -8.3	+50	12.0 -7.0
-----------	-----	-----------

13.3 -8.3		14.1 -9.1
-----------	--	-----------

13.3 —		14.1 -9.1
--------	--	-----------

14:00	13.0 -8.0		14.1 -9.1
-------	-----------	--	-----------

12.9 -7.9		14.5 -9.5
-----------	--	-----------

13.3 -8.3	3+00	14.0 -9.0
-----------	------	-----------

13.8 -8.8		13.8 -8.8
-----------	--	-----------

13.5 -8.5		13.9 -8.9
-----------	--	-----------

+50	13.2 -8.2		13.8 -8.8
-----	-----------	--	-----------

13.0 -8.0		13.7 -8.7
-----------	--	-----------

+70	13.6 -8.6	+50	13.9 -8.9
-----	-----------	-----	-----------

STA. N. 113+00

CONT.

(50)

DIST	SOUND	DIST.	SOUND
14:19		+60	13.4 -8.4
(5.0)			(5.0) 13.7 -8.7

	13.5 -8.5		14.2 -9.2
	13.7 -8.7		13.8 -8.8
	13.8 -8.8		13.1 -8.1

4:00	13.4 -8.4	6+00	13.9 -8.9
	13.6 -8.6		13.9 —

14.8 -9.8		13.1 -8.1
14.7 -9.7		12.8 -7.8
+50	14.2 -9.2	11.9 -6.9

14.1 -9.1	+50	11.6 -6.6
14.0 -9.0	14:23	10.5 -5.5

13.5 -8.5		
13.6 -8.6		
13.9 -8.9		

13.4 -8.4	7+00	
13.0 -8.0		
13.5 -8.5		

13.5 -8.5		
13.5 -8.5		
13.5 -8.5		

STA. N 114+00 8-26-48

0+00 = STA. N 114+00 P1 P5 B/L
 SOUND WEST
 DIST. SOUND 14:30
 0+00 4.1 +0.9

+10 4.1 — (5.0) 13.7 -8.7

(5.0) 4.3 +0.7 2+00 13.8 -8.8

4.8 +0.2 13.6 -8.6

9.2 -4.2 13.4 -8.4

+50 13.0 -8.0 13.2 -8.2

13.3 -8.3 13.7 -8.7

13.8 -8.8 +50 13.9 -8.9

13.9 -8.9 14.1 -9.1

13.5 -8.5 14.0 -9.0

1+00 14.2 -9.2 13.8 -8.8

14.5 -9.5 13.2 -8.2

14.0 -9.0 3+00 13.1 -8.1

13.8 -8.8 13.1 —

14.0 -9.0 13.1 —

+50 14.1 -9.1 13.2 -8.2

14.2 -9.2 13.2 —

+70 14.0 -9.0 +50 13.2 —

STA. N. 114+00 Cont. (5)

DIST.	SOUND	DIST.	SOUND
14:36		14:39	
+60	13.2 -8.2	+50	13.5 -8.5
(5.0)	13.4 -8.4	(5.0)	13.3 -8.3
	13.4 —		13.7 -8.7
	13.5 -8.5		13.8 -8.8
4+00	13.2 -8.2	6+00	13.2 -8.2
	13.1 -8.1		13.2 —
	13.5 -8.5		13.0 -8.0
	14.8 -9.8		11.5 -6.5
+50	14.4 -9.4	14:41	10.3 -5.3
	14.0 -9.0	+50	5.5 -1.5
	14.0 —		
	14.1 -9.1		
	13.3 -8.3		
5+00	13.1 -8.1		
	13.2 -8.2	7+00	
	13.2 -8.2		
	13.4 -8.4		
+90	13.5 -8.5		

STA N. 115+00

8-26-78

STA. N 115+00 CONT. (52)

0+00	SOUND	WEST	PIP5	B/L	DIST	SOUND	DIST	SOUND
14:48					14:53			
0+00	4.2	+0.8	+80	13.8	-8.8	(5.0)	+60	14.5 -9.3 +50 13.0 -8.0
+10	4.0	+1.0	(5.0)	13.8	—		14.4 -9.4	13.0 -8.0
(5.0)	4.2	+0.8	2+00	13.9	-8.9		14.4 —	13.1 -8.1
5.9	-0.9			13.8	-8.8	4+00	14.8 -9.8	13.0 -8.0
10.2	-5.2			13.9	-8.9		14.1 -9.1	6+00 12.1 -7.1
+50	12.6	-7.6		13.8	-8.8		14.0 -9.0	14:55 10.0 -5.0
	13.1	-8.1		13.3	-8.3		13.9 -8.9	
	13.0	-8.0	+50	13.0	-8.0		13.9 —	
	13.1	-8.1		13.8	-8.8	+50	13.9 —	
	13.3	-8.3		13.1	-8.1		13.0 -8.0	
1+00	13.5	-8.5		14.0	-9.0		12.7 -7.7	
	13.5	—		14.0	—		12.6 -7.6	
	13.5	—	3+00	14.0	—		12.8 -7.6	
	13.6	-8.6		13.9	-8.9	5+00	12.7 -7.7	
	13.9	-8.9		14.0	-9.0		12.5 -7.5	
+50	14.0	-9.0		13.9	-8.9		12.8 -7.8	
	13.9	-8.9		14.0	-9.0		12.8 -7.8	
+70	13.9	—	+50	14.7	-9.7	+40	13.0 -8.0	

STA. N. 117+00 8-26-78

0+00 = STA. N 117+00 PIP5 B/L

SOUND WEST

DIST SOUND

15:05

0+00 4.6 +0.4

DIST SOUND

15:10

+80 14.2 -9.2

PX

DIST.

15:13

+60

5.0

SOUND

13.5

—

13.5

—

13.6

—

13.8

—

13.9

—

13.7

—

13.8

—

13.0

—

12.9

—

12.2

—

12.3

—

12.1

—

12.2

—

12.1

—

12.0

—

12.1

—

12.0

—

STA. N 117+00 CONT. (53)

DIST. SOUND

DIST. SOUND

PX

12.0 -7.0

11.2 -6.2

9.8 -4.8

8.0 -3.0

6.3 -1.3

6+00

(E.O.)

4.8 +0.2

4.8 +0.2

9.0 -4.0

+50 12.4 -7.4

12.2 -7.2

12.8 -7.8

13.0 -8.0

13.1 -8.1

1+00 13.3 -8.3

13.4 -8.4

13.5 -8.5

13.6 -8.6

13.9 -8.9

+50 14.0 -9.0

14.0 —

+70 14.1 -9.1

DIST SOUND

15:10

2+00 14.2 -9.2

(5.0) 14.2 —

2+00 14.0 -9.0

14.0 —

14.0 —

14.0 —

13.7 -8.7

13.4 -8.4

13.2 -8.2

13.0 -8.0

13.0 -8.0

13.0 —

13.0 —

13.0 —

13.0 —

13.0 —

13.2 -8.2

13.3 -8.3

13.3 —

13.5 -8.5

+50 13.5 -8.5

12"- STORM DRAIN EXTENSION

PROJECT NO. 3.1

STA	+	H.I.	-	ELEV.
B.M.		3.70	16	74
				13.04
		11.00		5.74
		12.10		4.64
T.B.M.				7.06 9.68

(2.80)

11- 2- 48

(59)

(4.65)

CHISEL @ ON CONG CURB DIVIDING STRIP

TOP OF PIPE 12"

BOTTOM OF PIPE 12"

	hr	da - 8hr
Dragline Operator	2.2375	17.86
<u>II Oiler</u>	1.6625	13.30
Supt.	4.50	3.00 24 ⁰⁰
Laborer	2.23125	14.875 11.90
Pipe Layers	2.68125	1.7875 14.30
Carpenter	3.05625	2.0375 16.30
Pump Operator	2.53125	1.6875 13.50
Concrete Men.	2.53125	1.6875 13.50
Concrete Finisher	2.1125	16.90

Time & Material Record.

Nov. 1 Completed hauling and placing

- ✓ 1555 cu. yds fill @ 89¢.
- ✓ 1-day Rent for 2" x 4" Pump. @ 4⁰⁰
- ✓ 6 hrs. Pump-man @
- ✓ 7½ hrs. Pump-man @ (OT)

Nov. 2 ✓ 1-day Rent for Pump @ 4⁰⁰

- ✓ 4 10½ hrs. Pump-man @
- ✓ 81 10 hrs. Rent Drag-line & Op. @ 7.50
TRUCK & TRAILER #11 MODE DRAGLINE @ 7.50 2-HRS.
- ✓ 93 3 4 hrs. " A-frame Truck & Op. @
- ✓ 5 3½ " " 10-wheel flat @ 2.50
CRANE NO. 7-2 HRS @ 11.00 LOADING MATS
- ✓ 94 8-9 31,100# Gravel, Fenton.
- ✓ 6 5½ hr. Pipe-man
- ✓ 7 3½ hr. Laborer 3 hrs. Turner
Laid 3-20' lgths. of Pipe

Nov. 3 " 2 hrs. Rent A-frame

- ✓ 10 15,000# Gravel, Fenton.
- ✓ 12 8 hr. Pipe-man
- ✓ 13 8½ hr. Pump-man
- ✓ 14 8 hr. Laborer 3 hrs. Turner
- ✓ 15 8 hr. Dragline & Op.

Laid 2-20' lgths of Pipe.

12" Storm-Drain Extension.

(55)

Nov. 4 ✓ 8½ hrs. Dragline

- ✓ 8½ hrs. Pump-man
- ✓ 18 8 hrs. Pipe-man
- ✓ 19 8 hrs. Laborer
- ✓ 17 1 da Rent Pump.

Turner 3 hrs.

Laid 2-20' lgths. Pipe

Nov. 5 ✓ 8 hrs Drag-line

- ✓ 23 9½ hrs. Pump-man
- ✓ 20 7 hrs. Pipe-man
- ✓ 21 8 hrs. Laborer

✓ 30 14,700# Gravel, Fenton.

- ✓ 31 1 hr. Truck-Crane, Artukovich
3 hrs. Turner. @ 3⁰⁰

Laid 1-20' lgth. Pipe

Nov. 10, 1948

Nov. 6 ~~27~~ 9½ hrs. Dragline
 27 10 " Pumpman
 26 9 " Pipeman
 25 9 " Laborer
 8 " Pump Rent
 Laid 2-20' Lengths. (10x20 = 200')

Nov. 8 ³⁰ 8 hrs. Pump Rent
 30 8 hrs. Dragline
 33 9½ " Pumpman
 28 8 " Pipeman
 29 8 " Laborer
 32 15,000 # Gravel.
 Laid 2-10' Lengths. (220')

Nov. 9 215 Cu. Yds. Dirt.
 35 8 hrs. Dragline
 8 " Pump
 36 9 " Pumpman
 38 8 " Pipeman
 37 8 " Laborer
 Laid 2-10' Lengths. (240')

²⁸ Nov. 10 8 hrs. Dragline rent
 39 8 " Pumps "
 41 7 " Pipe-man
 39 8 " Pump man
 40 7 " Laborer
 Laid 1-10' Lgth. (250')

Nov. 15 Hauled 430 C.Y. Dirt. Started
 digging after lunch. (Total 2200 C.Y.)
 42 2½ hr Dragline
 33 9½ hr Pumpman
 1 - da pump.
 47 1 - hr Pipe-man
 45 1 hr. Laborer

Nov. 13 ⁴⁶ 5-hr Pumpman (OVERTIME)
 Nov. 14 ⁷⁷ 5-hr Pumpman
 Nov. 13 ⁸² 7-hr Carpenter

Nov. 16, 1948

- Nov. 16 ⁴⁵ 7-Hrs Dragline
83 - 8-Hrs Carpenter
,, 99 10½ Hrs Pumpman
,, 50 8½ Hrs Pipeman
,, 51 8-Hrs Laborer
,, 52 8-Hrs Pump Rent
,, 53 3-Hrs Supt
,, 57 15,000# Gravel

NOV 17

- 55 6-Hrs Dragline
56 9-Hrs Pumpman
57 8-Hrs Pipeman
58 8 Hrs Laborer
1-DAY Pump Rent
3-Hrs Supt
84 - 7-Hrs Carpenter

Nov. 18, 1948

- NOV. 18, 59 8 Hrs Dragline
60 10½ Hrs Pumpman
61 8 Hrs Pipeman
62 8 Hrs Laborer
1-DAY Pump Rent
3-Hrs Supt

Nov. 19, 1948

- 63 8-Hrs Dragline
64 11-Hrs Pumpman
65 8-Hrs Pipeman
66 8-Hrs Laborer
1-DAY Pump Rent
3-Hrs. Supt.

Nov. 22, 1948

- 67 8-Hrs Dragline
68 11½ Hrs Pumpman
69 8-Hrs Pipeman
70 8-Hrs Laborer
1-DAY Pump Rent
3-Hrs Supt
85 - 1-Hr Dump Truck @ 3.90

NOV. 23, 1948.

- 71 5½ Hrs Dragline
- 72 11½ Hrs Pumpman
- 73 4½ Hrs Pipeman
- 74 4½ Hrs Laborer
- 1-DAY Pump Rent
- 3-Hrs Supt
- Base { 3900# Sand - 1-YD DEL-BYHANSEN
- Slab { 5200# 1½ Rock 2-Yds
- 75 4½ Hrs Cement Finisher
- 95 { 1-Water Wagon 1-Hrs @ 3.90
2-HRS FORD RIVER @ 1.5875
- 98 1-Batch Truck 2-Hrs @ 3.90
- 86 1-Flat Rack (Haul Mixer) 2½ Hrs @ 3.90
1-½ Yd Mixer

NOV. 24, 1948

- 76 4-Hrs Dragline
- 77 12½ Hrs. Pumpman
- 78 8 Hrs. Pipeman
- 79 9½ Hrs Laborer
- 1-DAY Pump Rent
- 3 Hrs. Supt
- 80 5 Hrs. Carpenter
- 5 Yds. Transit Mixed Conc. @ 8.75 Cu.Yd.

NOV. 27, 1948

- 88 4-Hrs Dragline
- 96 NOV. 26, 48 PIPEMAN 5-HRS

DEC. 1, 1948

- 89- 2 Hrs. Dragline
- 90- 2-HRS Crane NO. 11- MOVING MATS
- 91- 2- " " " " " Crane

NOV. 29, 1948

- 97 5-Hrs Pipeman

DEC. 3, 1948

92 2-HRS TRUCK & TRAILER # 11 - PULL OUT DOZER
5-HRS. DOZER - RD-2 @ 7.00

PAYING DANA BANDING

LAYOUT PLAN

NOTE: THE L'S LISTED BELOW ARE TYPICAL FOR CENTERS

NO. 18, & NO. 14, FOR EQUAL ARCS OF 10.0' RADIALLY

STA OBJ. INT. L R = 40.00'

15, OR17. 0°

14°19'26"

28°38'52"

42°58'18"

57°17'45"

71°37'11"

85°56'37"

90°00'

CENTER NO 13. R=50.00' ARC=10.0'

16 0°

RT. 11°27'33"

22°55'06"

34°22'39"

45°50'12"

57°47'45"

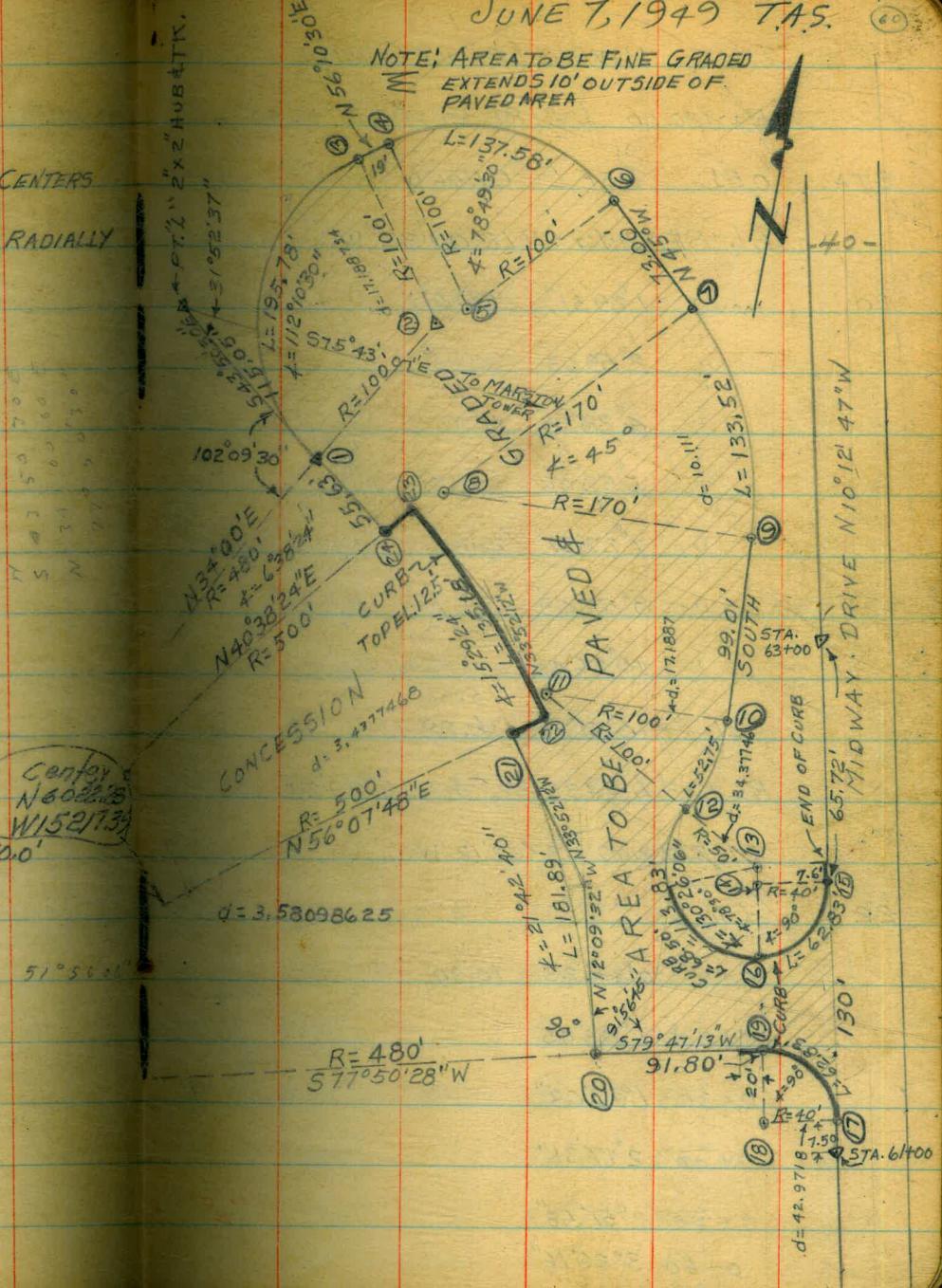
68°45'18"

78°29'43"

Conf'd. on Pg. 61.

JUNE 7, 1949 TAS. (60)

NOTE: AREA TO BE FINE GRADED
EXTENDS 10' OUTSIDE OF
PAVED AREA



PAVING LAYOUT Contd.

 $R = 480.00 \quad L = 181.89 \quad f = 21^{\circ}42'40''$

STA. OBJ. DEF L CHORD

P.I. - BEARING - N $12^{\circ}09'32''$ W20 LT. $1^{\circ}29'31''$ 25.00" $2^{\circ}59'03''$ "" $4^{\circ}28'34''$ "" $5^{\circ}58'06''$ "" $7^{\circ}27'37''$ "" $8^{\circ}57'09''$ "" $10^{\circ}26'40''$ "21 $10^{\circ}51'20''$ 6.89 $R = 500' \quad L = 135.32 \quad f = 15^{\circ}29'24''$ P.I. BEARING N $33^{\circ}52'12''$ W

22 0+00 LT.

0+10 $0^{\circ}34'23''$ 10.000+20 $1^{\circ}08'45''$ 0+30 $1^{\circ}43'08''$ 0+40 $2^{\circ}17'31''$ 0+50 $2^{\circ}51'53''$ 0+60 $3^{\circ}26'16''$

STA. OBJ. DEF L CHORD

0+70 $4^{\circ}00'38''$ ✓0+80 $4^{\circ}35'06''$ ✓0+90 $5^{\circ}09'24''$ ✓1+00 $5^{\circ}43'46''$ ✓1+10 $6^{\circ}18'09''$ ✓1+20 $6^{\circ}52'32''$ ✓1+30 $7^{\circ}27'00''$ ✓E.C.
1+35.18 $7^{\circ}44'42''$

NOTE: FOR CURVES WITH 100' RADIUS

f FOR 25' OF ARC. = $14^{\circ}19'26''$ ✓" 50' " " = $28^{\circ}38'52''$ " 75' " " = $42^{\circ}58'19''$ " 100' " " = $57^{\circ}17'45''$ " 125' " " = $71^{\circ}37'11''$
 $78^{\circ}49'30''$ " 150' " " = $8^{\circ}56'37''$ " 175' " " = $100^{\circ}16'03''$ R = 170'
f FOR 25' OF ARC = $8^{\circ}25'33''$ " 50' " " = $16^{\circ}51'06''$ " 75' " " = $25^{\circ}16'39''$ " 100' " " = $33^{\circ}42'12''$ " 125' " " = $42^{\circ}07'45''$
 $\frac{25}{-1}$
 175
 61
 6.89
 181.89

PROFILE & GRADES ON NORTH CURB

AT ENTRANCE TO "DANA LANDING"

STAMPER T.
BRAGGAN C.
WATSON E.
SHERRY A.

6-21-49

(62)

STA	H.I.	ELEV	GRADE	CUT	FILL _{To Top Curb.}	Top Curb
B.M.	5.37	16.78		11.91		
B.C. = 0+00 (3' OFF) 0+00				5.62	11.16	11.38
0+10				6.22	10.56	11.38
0+20				6.07	10.71	11.39
0+30				5.94	10.84	11.90
0+40				5.94	10.84	11.92
0+50				5.75	11.02	11.55
X X X X 0+60				5.69	11.09	X X X
P.C.C. P.C.C. = 0+00				5.72	11.06	11.75
P.C.C. +10 0+10				5.52	11.21	11.95
0+20				5.34	11.49	12.15
0+30				5.25	11.52	12.32
0+40				5.09	11.74	12.50
0+50				5.01	11.77	12.62
0+60				4.97	11.81	12.68
E.C.				4.92	11.86	12.70
T.B.M.				5.45	11.32	B.M.

65+00 W/CURB
X TOP CURB.B.M. { NW COR. IMP POST
BASE # 4590
CENTER ENTRANCE
TO DANA LNDG.

STAMPER T. L-21-49
BARRAGAN C.
WATSON E.
SHEARRY A.

(63)

PROFILE & GRADES ALONG SOUTH
CURB AT ENTRANCE TO DANA LANDING"

STA	+ H.I.	-	ELEV	TOP CURB	TOP CURB	MATCH CURB (EXISTING)	-
				CUT	FILL		
0 + 00							
B.C. = 0 + 00							
0 + 10							
	(FROM LAST PAGE)						
0 + 10	16.78	5.72	11.06	11.38	0.32		
0 + 20		5.78	11.00	11.39	0.39		
0 + 30		5.65	11.13	11.90	0.27		
0 + 40		5.60	11.18	11.92	0.29		
0 + 50		5.55	11.23	11.55	0.22		
0 + 60		5.42	11.36	XXXY	XXXV		
E.C.		5.40	11.38	11.75	0.37		
EC. + 20		5.05	11.73	12.15	0.92		

PROFILE & GRADES FOR CURB IN
FRONT OF BUILDING - DAYA LANDING

STAMPER T.
BAIRAGAN C.
WATSON E.
SHERRY A.

6-22-49

(69)

65000 YARDS
1941 TOPOGRAPHIC

STA	T.	H.I.	-	ELEV	GRADE	CUT	FILL
B.M.	5.39	16.80		11.41			
WEND							
AT SOUTH				5.50	11.30	12.55	1.25
SOUTH							
B.C.				5.33	11.47		1.08
SOUTH							
E.C.				5.34	11.46		1.09
0+00							
0+10				5.28	11.52		1.03
+20				5.19	11.61		0.99
+30				5.29	11.56		0.99
+40				5.08	11.72		0.83
50				5.23	11.57		0.98
60				5.15	11.65		0.90
70				4.98	11.82		0.73
80				5.08	11.72		0.83
90				5.08	11.72		0.83
100				5.09	11.71		0.89
110				5.02	11.78		0.77

PROFILE & GRADES FOR CURB IN
FRONT OF BUILDING - DANA BASIN

(65)

5.08

STA	+ H.I.	- ELEV	GRADE	CUT	FILL
120	16.80	7.92	11.88		0.67
NORTH B.C. 14 138		7.91	11.89		0.66
WEND @		5.08			
NORTH					
NORTH					
E.C.					
WEND @					
NORTH					

BM.	5.72	17.13	11.41		
2+38 ⁸²		5.20	11.93	13.00	1.07
2+23		5.23	11.90		1.10
2+17 ⁵⁹		5.24	11.89		1.11
1+98		5.32	11.81		1.19
1+73		5.30	11.83		1.17
1+48		5.12	12.01		0.99
1+23 B.C.		4.91	12.22		0.78
	-		13.00		-
0+75		4.97	12.16	12.92	0.76

11.91
5.52
16.93

1
STA + H.I. - ELEV GRADE CUT FILL

B.M	5.52	16.93	11.91	
1.		4.98	11.95	12.12
2.		4.96	11.97	12.25
3.		4.93	12.00	12.35
4.		4.78	12.25	12.35
5.		4.97	11.96	12.25
6.		4.83	12.10	12.12
7.		4.88	12.05	12.50
8.		4.93	12.00	12.50
9.		4.92	12.01	"
10.		4.92	12.01	"
11.		4.86	12.07	"
12.		5.00	11.93	"
13.		4.91	12.02	12.45
14	14.25	4.86	12.07	12.40
			LEFT	RIGHT
14.25		4.97	11.96	12.50
14.09		5.04	11.89	12.61 12.68
			LEFT	RIGH
			0.72	0.79

$\frac{6}{2}$
 $\frac{7}{7}$ $\frac{15}{18}$ $\frac{1}{3}$ 1 1
 (67)

STA	+	H.H.	-	ELEV	RIGHT GRADE	LEFT GRADE	F.LL.
0+75		16.93	5.17	11.75	12.78	12.71	
0+50			5.05	11.88	F - 0.97	F - 0.91	
0+25			5.02	11.91	F - 1.02	F - 0.98	
0+00				4.67	12.26	13.00	0.74
15. R.				4.63	12.30	13.00	0.70
16				4.70	12.23	"	0.77
17.2 P.P. 3				4.64	12.29	"	0.71
18.3				4.72	12.21	12.95	0.78
19				4.70	12.23	12.98	0.75
20				4.59	12.39	12.96	0.57
21. E.C.				4.57	12.36	12.99	0.58
22. B.C.				4.69	12.29	12.92	.63
23.				4.72	12.21	12.90	.69
24				4.81	12.12	12.88	.76
25				4.82	12.11	12.85	.79
26.				4.79	12.19	12.89	.71
27				4.73	12.20	12.92	.72
R-28				4.66	12.17	12.90	.73

17.13 - El. Grade Cut Fill

0+50	5.16	11.97	12.85	0.88
0+25	5.19	11.94	12.71	0.83
0+00	5.03	12.10	12.70	0.60
1	4.89	12.24	12.67	0.48
✓	4.85	12.28	12.65	0.37 0.42
3	4.88	12.25	12.62	0.37 0.45
4C	4.97	12.16	12.60	0.44
5	4.92	12.21	"	0.39
6	4.88	12.25	"	0.35
7	4.90	12.23	"	0.37
8	4.88	12.25	"	0.35
9	4.92	12.21	"	0.39
10	4.90	12.23	"	0.37
11	4.96	12.17	12.60	0.43
12	5.02	12.11	12.62	0.51
13	4.99	12.14	12.65	0.51
14	5.00	12.13	12.67	0.54
15	4.95	12.18	12.70	0.52

STA + H.I. - ELEV GRADE CUT FILL

B.M 5.91 17.32 11.91

1 5.34 11.98 13.00 1.02

2 5.32 12.00 " 1.00

3 5.32 12.00 " 1.00

4 5.36 11.96 " 1.04

5 5.37 11.95 " 1.05

6 5.40 11.92 " 1.08

7 5.49 11.83 12.96 1.13

8 5.31 12.01 12.92 0.91

9 5.44 11.88 12.88 1.00

10 5.42 11.90 12.86 0.96

11 5.40 11.92 12.85 0.93

12 5.43 11.89 12.88 0.99

13 5.46 11.86 12.92 1.06

2+17 59 5.42 11.90 F. 1"

2+23 5.41 11.91 F. 1" 09

5.41 11.91 F. 1" 10

11.11
5.91
17.32

7.5'
45'

(69)

STA - 65400
WYCB B/L
(X) Topo C019B

GRADES & LEVELS FOR ISLAND AT

ENTRANCE TO DANA LANDING

STA + H.I. - ELEV GRADE CUT FILL

B.M 5.30 16.62 11.32

R=3'

EAST RADIUS 5.82

R=1'

WEST RADIUS 5.71

S/E.C.

CENTER } R=3'

N/E.C.

B.M 4.86 16.18 11.32

S/E.C.

CENTER } R=1'

N/E.C.

11.15 0.35

10.80 11.10 0.30

11.15 0.35

N/W COR BASELAMP Post #4590 (ENTRANCE) 1.10

11.15

10.80

.75

11.82 1.04

5.39 10.79 11.03 1.07

11.83 1.04

16.18

9.99

11.79

11.76

4.44 11.79

4.42 11.76

4.1 3.69 11.11 11.83	4.9 5 10 11.11	3 C 18 50 25	25 25 5	25' 9 5 11.32 9.85 16.18 5.79 10.79	27 20
-------------------------------	-------------------------	-----------------	---------------	---	-------

N/W COR LMP Post

LEVELS & GRADES ALONG (15) FROM
EDGE OF PAVEMENT DANA LANDING
PAVEMENT

16	92
25	75
42	7
	11.32
	5.68
	17.00
	7.80
	12.5
	11.83
	1.9

(71)

STA	+ H.L.	- ELEV	GRADE	CUT	FILL	
B.M.	5.68	17.00				
TOP CURB						
0 + 20		4.86	12.14	11.65	0.49	
+ 25		5.06	11.97	11.71	0.23	
+ 50		5.20	11.80	12.5	0.70	
+ 75		5.81	11.19	12.06	0.87	
= PT (20) 0 + 91.8		6.13	10.87	11.88	0.93	
0 + 00 (20)"		5.92	11.08	11.80	0.72	
" (20) + 25		5.99	11.06	11.8	0.74	
+ 50		6.00	11.00	11.8	0.80	
+ 75		6.00	11.00	11.8	0.80	
+ 100		5.95	11.05	11.8	0.75	
" (20) + 125		6.06	10.94	11.8	0.86	
+ 150		6.03	10.97	11.8	0.83	
" (20) + 175		5.90	11.10	11.8	0.70	
T.P.		7.45	12.55			
T.I.P.		7.10				
T.I.P.		12.55				
T.I.P.	9.90	17.45				

TOP CURB AT NORTHEAST FRONT OF BUILDING

STA + H.I. - ELEV GRADE CUT FILL.

196
99, 57

(2)

"①"-50	17.45	6.01	11.49	11.80	0.36
-25		6.15	11.30	11.8	0.50
= "①" =		6.03	11.42	11.8	0.38
0+00		6.06	11.39	11.8	0.41
+25		6.09	11.91	11.8	0.39
+50		5.90	11.55	11.8	0.25
+75		5.83	11.62	11.8	0.18
"①" +100		5.69	11.81	11.8	0.01
+125		5.35	12.10	11.8	0.30
+150		5.23	12.22	11.9	0.32
+175		5.68	11.77	12.0	0.23
S.C = PT #③		6.00	11.95	12.15	0.70
+195 ±		6.46	10.99	12.32	1.33
B.C = PT. #④		6.51	10.89	12.50	1.61
(PT #④)+25'					
+50					
(B.M) 5.96	12.37		11.91		
"④"+75		6.65	10.72	12.30	0.58
+100		6.35	11.02	12.10	1.08
+125		5.04	12.33	12.05	0.28

STA - 65+00 H/C.B. B/4, @ Topo Curve

11.91
5.96
12.37

STA + H.L. - ELEV GRADE CUT FILL

$$\begin{array}{r}
 137 \\
 25 \\
 12 \\
 \hline
 87
 \end{array}
 \quad
 \begin{array}{r}
 6-2 99 \\
 137 \\
 50 \\
 \hline
 53
 \end{array}$$

(73)

"(6)"				
E.C.	12.37	9.67	12.70	11.93 0.77
+35		5.50	11.87	11.82 0.05
+50		5.69	11.68	11.71 0.03
B.C.		5.55	11.82	11.60 0.22
+20		5.82	11.55	11.58 GRADE
+45		5.95	11.42	11.50 0.08
+70		5.90	11.47	11.50 0.03
+95		OUT		11.50
+120		5.95	11.42	11.50 0.08
+145		5.85	11.52	11.50 0.02
E.C.		5.80	11.57	11.55 0.02
+25		5.76	11.61	11.60 0.01
+50		5.87	11.50	11.70 0.20
+75		5.71	11.66	11.80 0.14
+99		5.58	11.79	11.90 0.11
B.C.		5.39	11.98	12.00 0.02
+ P.R.C.		5.59	11.78	12.10 0.32

6-25-49

(79)

10.9	9.2
9.3	7.4
1.6	8.8
	9
	8.4

STA + H.I. - ELEV GRADE CUT FLL

P.R.C. + 05 ³	5.60	11.77	12.10	0.33
+ 15 ³	5.55	11.82	12.12	0.30
+ 25 ³	5.56	11.81	12.18	0.34
+ 35 ³	5.56	11.81	12.18	0.37
P.R.C. + 45 ³			12.20	

STA + H.I. - ELEV GRADE

B. M.	5.16	16.7	16.36	11.20
0 + 00				10.9
0 + 10				9.9
0 + 20				5.15
				10.89
				9.2
				1.6
				5.95
				10.9
				9.2
				1.70
				4.72
				12.0
				8.8
				3.2
				7.95
				11.71
				8.9
				3.0

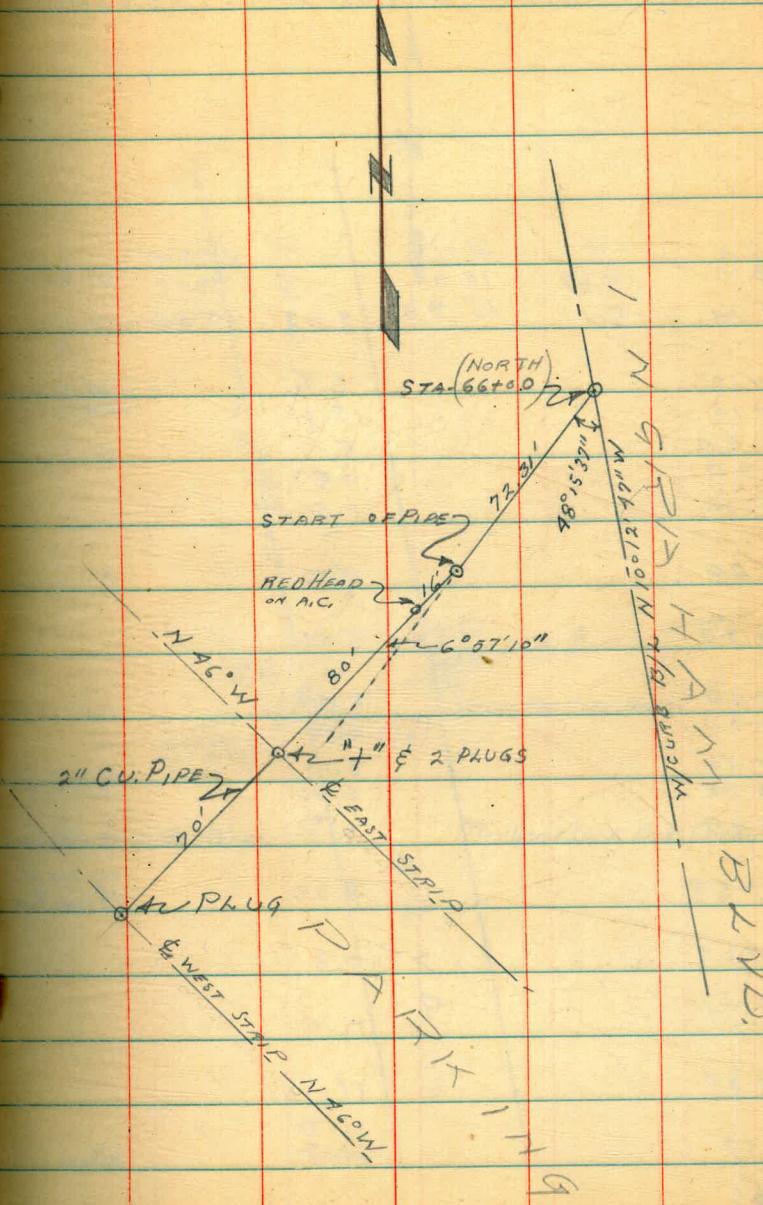
11.20	16.36
5.15	10.89
10.9	9.2
9.9	1.6
	5.95
	10.9
	9.2
	1.70
	4.72
	12.0
	8.8
	3.2
	7.95
	11.71
	8.9
	3.0

16.36	10.89
5.15	9.2
10.9	1.6
9.9	5.95
	10.9
	9.2
	1.70
	4.72
	12.0
	8.8
	3.2
	7.95
	11.71
	8.9
	3.0

C. BAIRAGAN 6-22-19
E. WATSON
A. SHERPY

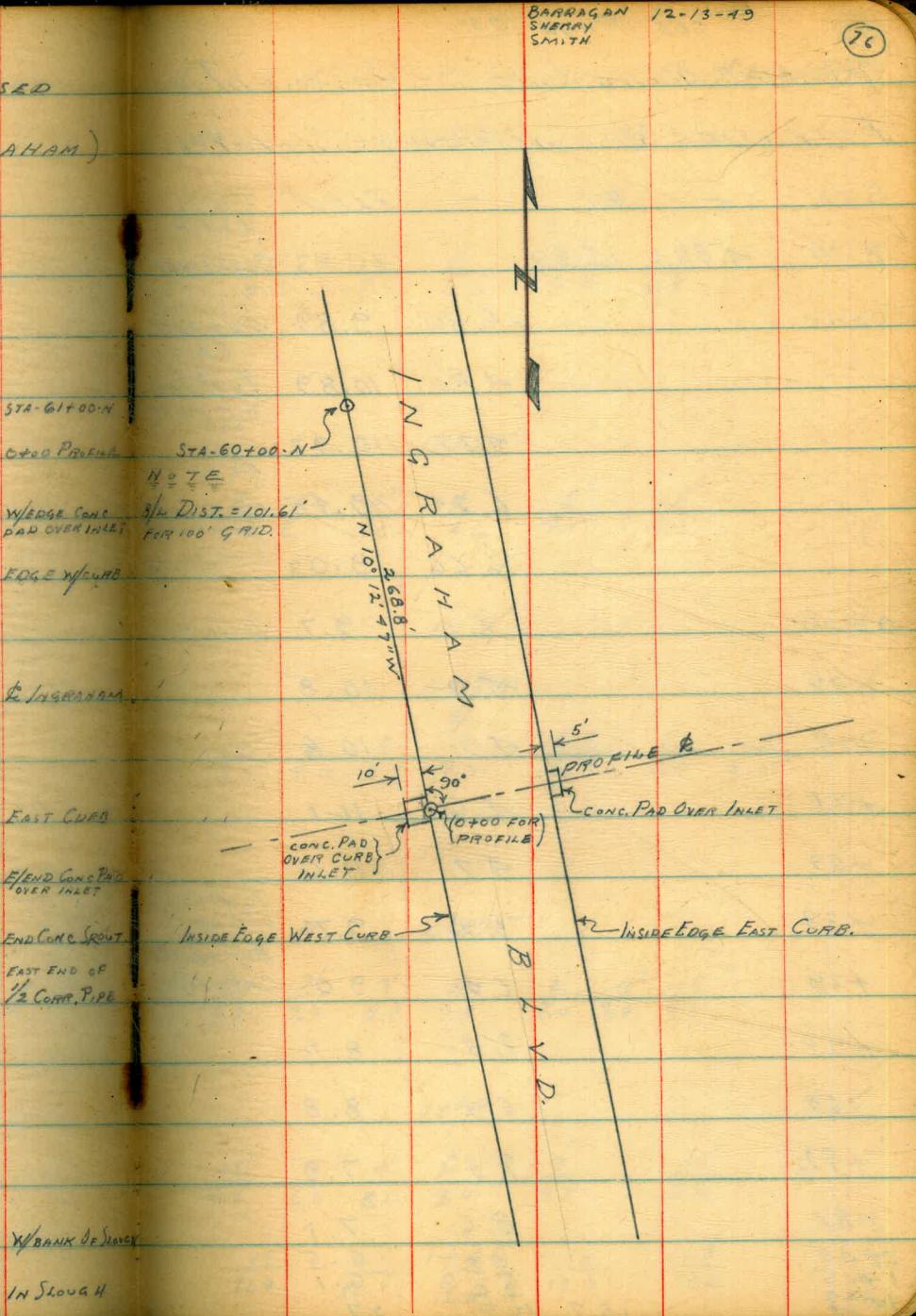
(75)

LAY OUT OF WATER LINE TO PARKING
LOT DANA LANDING



LOCATION & PROFILE ALONG R OF PROPOSED
CULVERT UNDER Midway Drive (INGRAM)

STA B.M.	+	H.I.	-	ELEV
				11.29 STA-61+00-N
T.B.M.	5.11	15.99	5.03	10.88 CULVERT PROFILE STA-60+00-N
0 - 10		6.6		N 0° E
0 - 10		5.11		WEDGE SLOP 3/8 IN DIST = 101.61'
0 + 00		5.11		PAD OVER INLET FOR 100' GRID.
0 + 00		6.04		EDGE W/ GROOVE
0 + 10		5.50		
0 + 20		5.32		INGRAM
0 + 30		5.48		
0 + 40		6.04		EAST CURB
0 + 40		5.16		
0 + 45		5.12		E/END CONCPAD OVER INLET
0 + 45		6.40		
0 + 57		7.15	8.84 END CONC SPROUT	INSIDE EDGE WEST CURB - 5'
0 + 58		8.23		EAST END OF 1/2 CORR. PIPE
0 + 65		10.3		
0 + 75		11.0		
1 + 25		11.1		
1 + 57		11.0		
1 + 60		11.2		X/BANK OF SLAUCH
		13.0		IN SLAUCH



PROFILING ALONG LINE OF PROPOSED DRAIN

CROSS SECTIONS H.I.=15.69

EXTENSION WEST SIDE MIDWAY @ STA-14-77400

0+00

STA + H.I. - ELEV

WEST

EAST

B.M.	4.86	15.69	7	U.S.F.D	10.83	"CAVESWAY"	17'	5'	2	2.3'	2.3'
							4.3	5.5	6.0	6.2	4.8

CONC	-	5.80	9.89	GUTTER
				EAST

"	-	4.80	10.89	TOP PAD
				TOP PAD
"	-	7.77	10.92	WEST

"	-	6.24	9.45	END
				FH WEST
"	-	6.66	9.03	END CHUTE

0+00	-	6.0	9.7	DIOPT
------	---	-----	-----	-------

+05	-	7.9	10.8
-----	---	-----	------

+14	-	7.9	10.8
-----	---	-----	------

+21	-	7.6	11.1
-----	---	-----	------

+29	-	7.7	11.0
-----	---	-----	------

+39	-	5.95	9.74	TOP CONC
				CASING

+39	-	6.7	9.0	BOTTOM CONC
				CASING

+50	-	7.4	8.3
-----	---	-----	-----

+60	-	6.9	8.8
-----	---	-----	-----

+72	-	7.8	7.9
-----	---	-----	-----

+81	-	8.6	7.1
-----	---	-----	-----

1+00	-	9.2	6.5
------	---	-----	-----

1+15	-	9.6	6.1
------	---	-----	-----

1+27	-	15.7	13.0
------	---	------	------

			2.7
--	--	--	-----

WEST

0+00

EAST

17'	5'	2	2.3'	2.3'
4.3	5.5	6.0	6.2	4.8

15'	7'	6'	4'	2	6'	15'
4.0	9.6	6.1	6.6	4.6	7.1	9.0

15'	6'	4'	2	6'	5'	15'
3.5	7.0	6.3	7.5	6.7	3.6	8.5

15'	8'	7'	3'	2	4'	15'
3.1	3.3	5.9	8.9	7.8	3.2	3.3

15'	5'	4'	2	9'	15'
5.6	6.6	8.0	9.0	9.3	9.6

15'	10'	12.6	10'	13'
11.8	12.1	12.5	13.0	14.2

PROFILE ALONG LINE OF PROPOSED DRAIN

EXTENSION WEST SIDE MIDWAY @ STA-N-98+00

STA + H.L. - ELEV

T.B.M. 3.79 16.09

12.25

OLD W/ GUTTER
BY 4
STA-102+00

STA + H.L. - ELEV

0+69

8.9

9.3

9.6

9.8

A.C.

4.72

GUTTER
TOP CONC

CONC

3.75

PAD WEST END

CONCP

5.20

10.84

PAD
FLR END

1+07

10.7

TOP WING
WALL BRIDGEBOTTOM WING
WALL

"

5.80

10.24

CHUTE
TOP CONC
LOWER END OF FLR

CONC

4.85

"

9.80

CONC

6.98

0+00

5.1

CROSS SECTIONS H.L.=16.04

+09

5.4

WEST 0+00 EAST

 $\frac{10'}{5.9}$ 5' R $\frac{22'}{5.2}$

+09

6.1

+18

6.9

+28

7.5

0+25

+35

7.3

 $\frac{10'}{3.5}$ $\frac{5'}{3.6}$ $\frac{7'}{5.5}$ $\frac{3'}{6.1}$ R $\frac{3'}{7.5}$ $\frac{3.5}{6.3}$ $\frac{10'}{3.5}$

+36

6.9

0+50

+43

8.3

BOTTOM OF FLR

 $\frac{10'}{3.3}$ $\frac{5'}{3.1}$ $\frac{5'}{2.3}$ R $\frac{6'}{7.5}$ $\frac{11'}{5.7}$ $\frac{15'}{3.6}$

+48

6.6

CABLE

0+75

+53

8.5

 $\frac{15'}{9.8}$ $\frac{7'}{5.1}$ $\frac{6'}{8.2}$ R $\frac{5'}{9.1}$ $\frac{7'}{8.1}$ $\frac{15'}{6.1}$

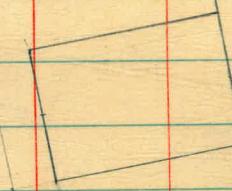
+60

8.6

 $\frac{15'}{-9.2}$ $1+0.0$ $\frac{15'}{-10.4}$

+64

8.9



19.59	13.75	16.27 9.80	15.71 9.80
4.80	13.69	11.97 13.80	10.91
12.79		13.75 .05	
19.43		.06	
12.80			
6.57			
12.86 - #3	13.75	#4	
+6.95	+5.77		
19.81	19.52	13.75	
3.37	-2.79	5.71	
16.19	16.73	19.16	
3.37	+2.70	5.69	
19.81	19.73	13.77	
6.06	6.57	3.08	
13.75 #4	12.86 - #3	16.85 9.80	
3.84		12.26	
17.59 ✓	12.26		
-3.72	3.45		
13.87 ✓	15.71	12.25	
+2.90	3.20	12.19	
16.77 ✓ #5	12.51		
1.46	9.41	.06	
12.26 - 12.31 - #5	16.92 9.78		
+9.59	12.19		
16.90	05		
-7.08			
13.82	12.19		
5.69			
19.51			
5.71			
13.80			

12.50 FIN. S.

19	12.55 9.11	12.45 - 12.35 -
12.33 - SU B.G.	16.66 12.33	12.08
12.55 4.10	12.25 12.08	12.18
16.65 12.08	12.25 12.08	12.08
9.57	15.5 12.08	16.65 12.08
	3	= $\frac{c}{a}$
16.65 12.21	12.35 12.18	$\frac{b^2}{a^2}$
9.44 - 12.34	12.18 12.00	$\frac{a^2}{c^2}$
	12.21	
12.22 12.05	12.55 9.09	12.35 12.18
16.65 12.05	16.64 12.35	16.64 12.25
9.65	9.41 11.95	9.41 12.18
	11.98	$\frac{c}{A}$
11.87 11.70	11.29 11.78	9.22 9.56
	11.54 11.95	(+B)
16.65 11.70	16.64 12.18	16.64 12.25
9.45	9.76 9.86	12.08 12.08
		+B)
16.65 5.93	12.25 12.08	16.64 12.08
10.72		
	11.95 11.78	16.65 11.78
		= $\frac{c}{a}$
		$\frac{b^2}{a^2}$
		$\frac{a^2}{c^2}$
12.25 12.08	9.56 9.82	
16.65 11.78	11.95 11.78	
16.65 11.78	9.87	

by the
9.4 ft.
10' =

slope
in the
allow-
0.0041.

dist-
14 ft.,
ft.

IN U. S. A.

