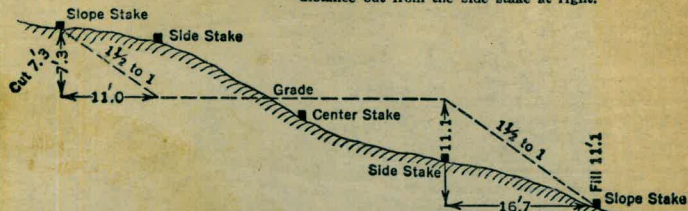


WILSON BAY

54

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

KEUFFEL & ESSER CO., N. Y.

176-397
 172-8.78
 168-7.91

109-7.37 → (N-172 + 95.85)
 105-7.82

179 To 173 E → 800'

Book #54.

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

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In the
from

Cut 7.2

Color
Fill

0

1

2

3

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ACTS OF THE LEGISLATURE

of the State of New York

for the year 1950

STA-166+00

7-6-50

①

PT. TOP EAST OF 112+00

PX

STA + H.I. - ELEV

168+00 N
112+00 W

T.B.M. 2.82 10.73 7.91

W-720 4.1 6.6

W-745 3.3 7.4

W-770 4.1 6.6

W-2175 4.3 6.4

W-2725 5.1 5.6

W-1+52 5.6 5.1

W-1+55 5.6 5.1

W-1+63 5.4 5.3

W-0+95 4.9 6.3

W-3+29 4.1 6.6

W-0+12 4.0 6.7

W-0+00 4.9 5.8

E-0+95 5.2 5.5

E-0+91 5.0 5.7

E-1+40 5.0 5.7

E-1+71 5.4 5.3

E-1+92 6.2 4.5

E-1+93 7.2 3.5

E-1+96 6.2 4.5

START	F	H.I.	-	ELEV
		166 + 00		
E-2+50		10.73	5.8	4.9
E-2+96			5.3	5.4
E-3+38			4.7	6.0
E-3+76			4.4	6.3
E-4+11			1.1	9.6
T.P.		10.73	3.16	7.27

Top 6" x 10"
25' N SECTION
LINE @ CREEK

STA	+ H.I.	-	ELEV
			165 + 00
			PT 300' E of 112+00 B/L
			9.72
E-5+35		-0.1	9.8
E-5+20		+0.2	9.5
E-5+00		3.0	6.7
E-4+25		4.1	5.6
E-4+20		4.9	4.8
E-3+71		4.8	4.9
E-3+56		5.5	4.2
E-3+00		6.4	3.3
E-2+98		5.4	4.3
E-2+91		4.4	5.3
E-2+50		4.1	5.6
E-2+00		4.2	5.5
E-1+58		4.2	5.5
E-1+17		4.3	5.4
E-0+97		4.4	5.3
E-0+35		4.4	5.3
0+00		4.6	5.1

4" x 4" 25' N
SECTION @
CREEK #166

PX

STA - 165+00

STA	+	H.I.	-	ELEV
W-0+38		9.72	4.5	5.2
W-0+90			4.7	5.0
W-1+40			4.6	5.1
W-1+80			3.5	6.2
W-2+40			3.6	6.1
W-3+00 = 112+00 B/A			3.8	5.9
T.P.			4.10	5.62

Top of
164+00
112+00

STA - 164+00 - N

4-6-50 (2)

T @ N. 16,400 - 40,600

STA	+	H.I.	-	ELEV
T.B.M.		10.26 ³		
W-6+00			4.7	5.6
W-5+52			6.1	4.2
W-5+10			6.0	4.3
W-4+60			5.4	4.9
W-4+35			6.4	4.9
W-4+32			7.0	3.3
W-4+20			5.5	4.8
W-3+75			5.4	4.9
W-3+73			5.3	5.0
W-3+30			5.4	4.9
W-2+88			5.4	4.9
W-2+50			5.4	4.9
W-2+05			5.3	5.0
W-1+63			5.2	5.1
W-1+24			5.2	5.1
W-0+72			5.0	5.3
W-0+19			5.5	4.8
0+00			5.1	5.2

PX

Sta 164+00

0+00 = 13600 W 3/4

Sta	+	H ₁	-	Elev
T.B.M.	2.99	10.26 ³		7.27 <small>414 25' N + 12 E 113</small>
E 0+07			4.9	5.4
E 0+19			5.6	4.7
E 0+16			6.8	3.5
E 0+21			7.2	3.1
E 0+28			6.0	4.3
E 0+71			5.6	4.7
E 1+50			5.1	5.2
E 1+83			4.8	5.5
E 2+15			4.5	5.8
E 2+37			0.7	9.6
E 2+53			0.6	9.7
T.P			3.99	6.32 <small>20' E STA - 162+00 N 106+00 W</small>

Sta 163+00

0+00 = 10600 W 3/4

Sta	+	H ₁	-	Elev
T.P	4.41	10.73		6.32 <small>20' E STA - 162+00 N 106+00 W</small>
E 2+52			1.3	9.4
E 2+30			5.3	5.4
E 1+76			5.9	4.8
E 1+32			6.1	4.6
E 0+73			6.3	4.4
E 0+41			6.3	4.4
E 0+99			7.5	3.2
E 0+33			7.2	3.5
E 0+31			6.3	4.4
E 0+24			5.4	5.3
E 0+00			5.1	5.6
W 0+50			5.4	5.3
W 1+03			5.6	5.1
W 1+46			5.8	4.9
W 1+77			6.0	4.7
W 2+20			6.1	4.6
W 2+40			6.0	4.7
W 3+00			6.0	4.7

Sta 162+00
0+00 = 10,600-W 8/4

Sta	Sta	+	H.I.	-	Elev
T.T.B.M.	3.74		10.06		6.32
E 0+00				4.9	5.2
E 0W0+32				4.8	5.3
E 0W0+84				5.1	5.0
E 0W1+30				4.8	5.3
E 0W1+77				5.1	5.0
E 0W2+25				5.3	4.8
E 1W2+70				5.3	4.8
E 1W3+10				5.4	4.7
E 1E0+35				4.9	5.1
E 2E0+43				5.7	4.3
E 2E0+60				6.0	4.1
E 0+61				7.0	3.1
E 0+66				6.7	3.4
E 0+68				5.7	4.4
E 1+28				5.6	4.5
E 1+75				5.4	4.7
E 2+00				5.7	4.4
E 2+20				4.9	5.2
E 2+47				4.6	5.5
E 2+76				0.4	9.7

2x4
20' E. of
Sta 162+00

Sta 161+00
0+00 = 10,600-W-8/4

Sta	+	H.I.	-	ELEV	
T.P	3.69		10.01	6.32	
E 3+02				-0.2	10.2
E 2+90				0.2	9.8
E 2+65				4.5	5.5
E 2+04				5.6	4.4
E 1+75				5.5	4.5
E 1+08				5.8	4.2
E 0+90				5.8	4.2
E 0+76				7.0	3.0
E 0+71				6.7	3.3
E 0+70				5.7	4.3
E 0+42				5.7	4.3
E 0+38				5.1	4.9
E 0+00				5.0	5.0
E 0+30				5.1	4.9
E 0+79				5.6	4.4
E 1+22				5.4	4.6
E 1+66				5.1	4.9

2x4
20' E-162+00N

PX

PX

Sta	H.I.	Elev.
E 2120	10.01	5.2
E 2165		5.2
E 3+05		5.2
PX STA - 160+00 N		
0+00 = W-106+00 B/L		
STA	H.I.	ELEV
T.P.	3.60	9.92
W 0+54		4.8
W 1+00		5.3
W 1+31		5.6
W 1+35		6.3
W 1+42		6.2
W 1+43		5.5
W 1+81		5.4
W 2+36		5.7
W 2+75		5.5
W 3+25		5.5
T.P.	9.90	5.02
T.B.M	5.85	4.07

Sta	H.I.	ELEV
160+00 N	3.60	9.92
4+32		-0.09
3+67		0.09
3+13		0.46
3+00		1.4
2+38		2.4
2+85		4.3
2+55		5.1
2+35		4.6
2+22		5.2
2+65		5.7
2+08		5.9
0+65		5.8
0+68		7.0
0+56		6.6
0+51		5.2
0+26		5.0
0+00		4.6

2'x4" 20' EAST
OF 62+00 W
106+00 W

2'x4" 20' EAST
OF 62+00 W
106+00 W

LOCATION OF MAN HOLES EAST OF H.W.-101 - PROJ 3.6

S	14.21	30.76
T	31.90	29.50
E	39.90	60.26
E	85.51	34.20
E	85.53	94.46
E	172.04	1775 95.00 ✓
E	98.93	35 35.00 ✓
E	270.97	2+1 0.00 2.04 46
E		32.96 32.96
E		2+4 2.96 2+3 7 2
E		5.00
E		2

"HORSE" @ 102° 45'

"STATE" ANGLE RIGHT @ 205° 31' 242

(M. HOLE # 41) (TRUNK SEWER # 2) AV. 102° 45' 30"

"HORSE" @ 67° 23' 270

P.L. (N-169+83.70) (W-73+86.84) ANGLE RIGHT @ 134° 45' 30"

(M. HOLE # 10) (TRUNK SEWER # 2) AV. 67° 22' 45"

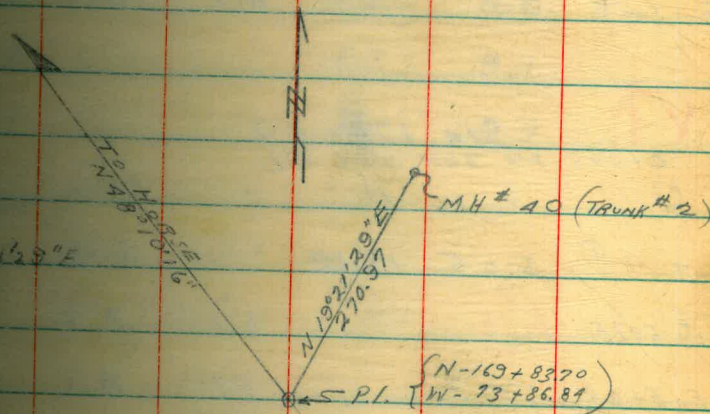
BARBAGAN
SHERRY
BROWN

4-7-50

(6)

11045
91
82 45
2 165° 31'
205 31

1+ 95
35
2+ 10



67° 21' 45"
N 66° 01' 16\"/>

4-7-58

ST STA - 173+00 N (EXTENSION EAST)
 0+00 = Pt. 400' E of TBL.

STA	+	H.I.	-	ELEV
T.B.M.	5.31	14.12		8.78
T.P. ①	4.82	13.60	5.34	8.78
E 4+35			6.3	7.3
E 3+80			6.4	7.2
E 3+23			6.0	7.6
E 2+68			5.7	7.9
E 2+13			5.3	8.3
E 1+58			4.9	8.7

ST STA 174+00
 0+00 = Pt. 300' E of TBL.

Sta	+	Hi	-	Elev
T.P. ①	5.05	13.83		8.78
E 5+75			5.1	8.7
E 5+25			5.7	8.1
E 4+73			5.7	8.1
E 4+20			5.9	7.9
E 3+70			6.2	7.6
E 3+10			5.4	8.4

Sta. 175+00

0+00 = Pt. 300' E of TBL.

Sta	+	Hi	-	Elev
T.B.M.	5.64	14.42		8.78
E 630			6.2	8.2
E 563			6.0	8.4
E 460			6.2	8.2
E 4+30			6.8	7.6
E 4+18			5.7	8.7
E 3+65			5.6	8.8
E 3+22			5.3	9.1
E 2+75			5.5	8.9

Sta. 176+00

0+00 = Pt. 300' E of TBL.

Sta	+	Hi	-	Elev
T.P. ①	3.23	12.01 11.51		8.78
E 5+53			3.2	8.8
E 5+00			2.8	9.2
E 460			3.8	8.2

Sta 176+00

T.B.M.

Sta	+	H.I.	-	Elev
E 4+05		12.01 11.51	3.4	8.6
E 3+60			3.2	8.8
E 3+05			3.0	9.0
E 2+55			2.5	9.5

Sta 177+00

0+00 = Pt. 300' E of T.B.L.

Sta	+	H.I.	-	Elev
E T.P. ①		4.05	12.83	8.78
E - 5+55			4.1	8.7
E 5+00			3.9	8.9
E 4+50			3.7	9.1
E 4+00			3.6	9.2
E 3+45			3.9	8.9
E 2+96			4.0	8.8
E 2+40			3.6	9.2
E 1+85			3.3	9.5

Sta - 178+00

0+00 = Sta - 179+00

T on T.B.L.

Sta	+	H.I.	-	Elev
T.P.M.		4.96	14.68	9.72
E 8+10				6.9 7.0
E 7+60				6.8
E 7+30				7.2
E 6+40				7.5
E 6+05				7.4
E 5+45				7.2
E 5+15				5.3

Sta. 179+00

T on T.B.L. 0+00 = 112+00 W. B/L

Sta	+	H.I.	-	Elev
T.P.M.		5.01	14.73	9.72
E 7+72				6.0
E 7+25				6.6
E 6+90				5.0
E 6+35				4.7
E 5+85				4.7
E 5+40				4.7
E 4+75				5.2

PX

Sta 18,000 Hub
112+00 W

(4+50-9)

PX

Sta. 159+00

0+00 = W-106+00 B/C

Sta.	+	H.I.	-	Elev.
T.B.M.		9.92	5.02	4.90
T.B.M.			5.85	4.07
T.P.	6.16	10.23		4.07
E 4+25			1.0	9.2
E 3+70			0.9	9.3
E 3+43			1.4	8.8
E 3+30			0.2	10.0
E 3+25			0.2	10.0
E 3+20			1.3	8.9
E 3+19			2.3	7.9
E 3+00			5.0	5.2
E 2+60			5.5	4.7
E 2+30			5.6	4.6
E 2+20			6.2	4.0
E-1+26			6.2	4.0
E-1+10			6.6	3.6
E 1+06			7.1	2.8

7-13-50

(9)

159+00

PX

STA + H.I. - ELEV

STA	+	H.I.	-	ELEV
E-1+03		10.23	2.4	2.8
E-1+99			6.0	4.2
E-1+47			5.5	4.7
E-1+00			5.3	4.9
E-1+44			5.3	4.9
E-1+33			5.5	4.7
E-1+31			5.7	4.5
E-1+81			5.9	4.3
E-1+20			6.7	3.5
E-1+10			7.0	3.2
E-1+00			6.3	3.9
E-1+10			6.2	4.0

PX

158+00 N

0+00 = 106+00 W- B/2

STA	+	H.I.	-	ELEV
-----	---	------	---	------

T.B.M	6.01	10.08		4.07
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E 4+75			1.4	8.7
--------	--	--	-----	-----

E 4+20			1.1	9.0
--------	--	--	-----	-----

E 3+75			1.5	8.6
--------	--	--	-----	-----

E 3+45			-0.1	10.2
--------	--	--	------	------

E 3+38			1.1	9.0
--------	--	--	-----	-----

E 3+34			2.3	7.8
--------	--	--	-----	-----

E 3+12			4.7	5.4
--------	--	--	-----	-----

E 2+80			5.2	4.9
--------	--	--	-----	-----

E 2+48			6.1	4.0
--------	--	--	-----	-----

E 2+40			7.0 7.0	3.1
--------	--	--	-----------------------	-----

E 2+28			6.3	3.8
--------	--	--	-----	-----

E 1+72			6.2	3.9
--------	--	--	-----	-----

E 1+68			7.4	2.7
--------	--	--	-----	-----

E 1+64			7.7	2.4
--------	--	--	-----	-----

E 1+62			6.3	3.8
--------	--	--	-----	-----

E 1+60			5.8	4.3
--------	--	--	-----	-----

E 1+38			5.5	4.6
--------	--	--	-----	-----

E 0+94			5.5	4.6
--------	--	--	-----	-----

158+00 N

STA	+	H.I.	-	ELEV
-----	---	------	---	------

E-0+60		10.08	5.4	4.7
--------	--	-------	-----	-----

0+00			5.3	4.8
------	--	--	-----	-----

W-0+45			5.2	4.9
--------	--	--	-----	-----

W-0+91			5.5	4.6
--------	--	--	-----	-----

W-1+32			5.6	4.5
--------	--	--	-----	-----

W-1+87			5.7	4.4
--------	--	--	-----	-----

W-2+25			5.8	4.3
--------	--	--	-----	-----

W-2+75			5.2	4.9
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W-2+89			6.9	3.2
--------	--	--	-----	-----

W-3+21			6.8	3.3
--------	--	--	-----	-----

PX

(10)

PX

STA 157+00 N

0+00 = 106+00 W-2/4

STA	+ H.I.	-	ELEV
T.B.M	5.28	9.35	7.07
E-4+65		0.63	8.72
E-4+25		0.48	8.87
E-4+02		0.71	8.61
E-3+66		-0.43	9.8
E-3+55		0.6	8.8
E-3+53		1.6	7.8
E-3+31		3.7	5.7
E-2+80		4.9	4.5
E-2+67		6.3	3.1
E-2+38		3.6	3.8
E-2+35		6.9	2.5
E-2+28		6.7	2.7
E-2+26		5.9	3.5
E-2+00		5.7	3.7
E-1+66		5.2	4.2
E-1+21		4.8	4.6
E-0+63		4.9	4.5

-3.45 T.O.D

4-13-50

⑪

157+00 N

PX

STA	+ H.I.	-	ELEV
0+00	9.35	5.0	4.4
W-0+02		5.6	3.8
1+0+11		5.7	3.7
1+0+25		5.8	3.6
1+0+68		5.8	3.6
1+1+12		5.9	3.5
1+1+65		5.1	4.3
1+2+11		5.2	4.2
1+2+57		5.7	4.0
1+2+61		6.0	3.4
1+3+13		6.0	3.4
T.P		-3.45	5.90

2x4 20' E-
(155+00 N
106+00 W)

PX

STA - 156+00N

0+00 = 106+00 B/L

STA	+	H.I.	-	ELEV
-----	---	------	---	------

T.P.	4.41	9.31		4.90
------	------	------	--	------

E 5+05			$\frac{3.20}{2.02}$ 0.68	8.63
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E 4+60			$\frac{2.74}{2.30}$ 0.44	8.87
--------	--	--	-----------------------------	------

E 4+23			$\frac{2.65}{2.11}$ 0.54	8.77
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E 4+00			$\frac{1.72}{-2.00}$ -0.28	9.6
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E 3+86			0.8	8.5
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E 3+84			1.5	7.8
--------	--	--	-----	-----

E 3+58			4.0	5.3
--------	--	--	-----	-----

E 3+14			4.8	4.5
--------	--	--	-----	-----

E 2+80			5.7	3.6
--------	--	--	-----	-----

E 2+76			6.6	2.7
--------	--	--	-----	-----

E 2+70			6.8	2.5
--------	--	--	-----	-----

E 2+70			6.1	3.2
--------	--	--	-----	-----

E 2+55			5.8	3.5
--------	--	--	-----	-----

E 2+53			7.1	2.2
--------	--	--	-----	-----

E 2+45			6.9	2.4
--------	--	--	-----	-----

E 2+44			6.0	3.3
--------	--	--	-----	-----

E 2+07			5.9	3.4
--------	--	--	-----	-----

E 1+83			4.8	4.5
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4-13-50

(2)

PX

156+ 00N

Sta	+	H.I.	-	Elev
-----	---	------	---	------

E 1+30		$\frac{9.31}{10.31}$	4.8	4.5
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E 0+78			4.9	4.4
--------	--	--	-----	-----

0+00			5.2	7.1
------	--	--	-----	-----

0+43			4.8	4.5
------	--	--	-----	-----

0+73			5.2	4.1
------	--	--	-----	-----

0+81			6.2	3.1
------	--	--	-----	-----

0+90			5.3	4.0
------	--	--	-----	-----

1+45			5.1	4.2
------	--	--	-----	-----

2+10			5.3	4.0
------	--	--	-----	-----

2+55			5.6	3.7
------	--	--	-----	-----

PX

STA - 155 + 0.0 N

0+00 = 106+00 W - B/D

STA 155 + 0.0 N

PX

STA	+ H.I.	-	FLY
TP	3.28	9.18	5.90
E 0 + 37		4.8	7.4
E 0 + 85		4.8	4.4
E 1 + 45		4.8	4.4
E 2 + 33		4.8	4.4
E 2 + 38		6.3	2.9
E 2 + 45		6.1	3.1
E 2 + 50		7.4	1.8
E 2 + 55		7.0	2.2
E 2 + 57		6.2	3.0
E 2 + 80		5.5	3.7
E 3 + 52		5.2	4.0
E 4 + 10		3.9	5.3
E 4 + 40		1.6	7.6
E 4 + 42		0.5	8.7
E 4 + 51		-0.35	9.5
E 4 + 76		0.98	8.70
E 5 + 40		0.25	8.9
E 5 + 85		0.33	8.8

2x4' 20ft
15' 6" x 90ft
106' 00 ft

STA	+ H.I.	-	FLY
0+00	9.18	7.9	4.3
0+40		5.0	4.2
0+44		6.0	3.2
0+60		6.1	3.1
0+69		5.1	4.1
1+08		5.0	4.2
1+32		5.1	4.1
1+34		5.9	3.3
1+39		6.1	3.1
1+43		5.2	4.0
1+47		5.9	3.3
1+53		5.9	3.3
1+57		5.2	4.0
2+10		5.2	4.0
2+24		6.0	3.2
2+80		6.1	3.1

1.98
-2.25
2.73
-2.25
2.95
-2.70
3.25
-2.92

4-13-50

(14)

STA 154+00 N				154+00			
0+00 = 105+00 W (100' EAST OF 106+00 W)				0+00 = 105+00 W (100' EAST OF 106+00 W)			
STA	H.I.	-	ELEV	STA	H.I.	-	ELEV
TIP	3.52	9.42	5.90	W-0+87	9.42	5.2	4.2
E 5+50			0.15	W-100		5.4	4.0
E 4+83			0.26	W-150		5.4	4.0
E 4+15			0.2	W-177		5.6	3.8
E 4+11			1.8	W-2+00		5.9	3.5
E 3+70			5.0	W-2+02		6.4	3.0
E 3+04			5.6	W-2+10		6.5	2.9
E 2+56			6.1	W-2+12		5.6	3.8
E 2+16			6.4	W-2+80		5.7	3.7
E 2+05			6.4				
E 1+85			6.8				
E 1+80			6.8				
E 1+80			6.3				
E 1+72			5.2				
E 1+22			4.9				
E 0+66			5.0				
0+00			5.2				
W-0+47			5.1				

2° X 4' 20" W
155+00 W
106+00 W

2.90

-2.75

2.67

2.91

4-18-50

(15)

PX STA ^w 91+00				ST 92+00 PX					
0+00 = N-152+00	B/S	SECTION	N/E/S	0+00 = N-152+00	B/S	SECTION	SOUTH		
STA	+	H.I.	-	FEV	Sta	+	H.I.	-	Elev
T.B.M.	3.66	13.12		9.16	T.B.M.	4.23	14.24		10.01
T.P.			2.56	10.56	S. 1+00				11.3
T.P.			4.30	8.82	2+00				6.6
"	5.26	14.08		8.82	3+00				5.8
N-1+85			5.4	8.7	4+00				4.6
N-1+40			5.3	8.8	5+00				4.8
N-0+94			5.0	9.1	6+00				5.0
N-0+44			4.5	9.6	7+00				5.3
0+00			4.7	9.4					
S 0+11			5.3	8.8	Sta 93+00				
S 0+12			6.0	8.1	Sta	+	H.I.	-	Elev
S 0+73			11.1	3.0	T.B.M.	4.33	14.34		10.01
T.P.			4.07	10.01	N 1+58				6.0
					N 1+00				5.6
					N 0+43				5.3
					0+00				4.8
					S 0+49				4.5
					S 0+62				5.4
					S 0+66				6.3
					S 1+20				11.5

Sta 94+00				Sta 95+00			
0+00 =	N-152+00 B/P	SEC. SOUTH		0+00 =	N-152+00 B/P	SEC. SOUTH	
Sta	+	H'	- Elev	Sta	+	H'	- Elev
T.B.M	4.62	14.63	10.01	T.B.M	5.00	15.01	10.01
S 1+50			11.8 2.8	N 1+66			6.2 8.8
S 0+92			7.2 7.4	N 1+22			6.0 9.0
S 0+84			6.6 8.0	N 0+75			5.6 9.4
S 0+68			4.6 10.0	N 0+00			5.1 9.9
S 0+00			4.8 9.8	N 0+66			4.7 10.3
N 0+34			5.2 9.4	N 0+50			6.1 8.9
N 0+60			6.0 8.6	N 0+82			6.8 8.2
N 1+10			6.2 8.4	N 1+45			11.9 3.1
				T.P			5.10 9.91

1x1 Hub

Sta 98+00

PX

4-8-50

(17)

Sta. 96+00

0+00 = N-152+00 B/W

Sta

+

H1

-

Elev

IKI

T.B.M.

5.12

15.03

2.91

Sta

S-1+3+

12.0

3.0

S-0+71

7.0

8.0

S-0+66

5.6

9.4

S-0+56

4.8

10.2

0+00

5.0

10.0

N-0+54

5.2

9.8

N-1+02

6.0

9.0

N

SET TIDE STAFF FOR SOUNDINGS OF
ROSE CREEK (DELTA)

STA	+	H.I.	-	ELEV
T.B.M	1.85	7.75		5.90
			4.15	3.60
			3.85	3.95

" 2x2" 100' E/OE STA (155+00N 106+00W)

5.90
1.85
7.75

WATER LEVEL @ 4:05 P.M.

HL WATER @ 4:20 P.M.

4.85
1.00
3.85

1.95 ON TIDE STAFF SET TO +3.95 WATER ELEV

(TIDE READINGS)
(ADD 2.00' TO ALL SOUNDINGS

OFF OF TIDE STAFF)

SOUNDINGS OF ROSE CREEK (DELTA)

99+00

6-27-50

(19)

99+00

PX

DIST SOUND

D. ST. SOUND

0+00-152+00 N 3/4 : SOUND SOUTH

3+60 7.2 -2.0

PX

DIST SOUND

DIST SOUND

11.0 -5.8

0+00 2.4

+2.8

1+80 2.8

+2.9

12.0 -6.8

(5:30 P.M.)

(5.7)

+10

2.4

+2.8

2.7

+2.5

12.0 -6.8

+20

2.3

+2.9

2+00

2.7

+2.9

9+00

12.1 -6.9

+30

2.3

+2.9

2.7

+2.5

(5.2)

12.5 -7.3

40

2.2

+3.0

2.6

+2.6

12.7 -7.5

0+50

2.5

+2.7

2.5

+2.7

12.8 -7.6

2.4

+2.8

2.7

+2.5

12.0 -7.8

2.4

+2.8

+50

3.8

+1.4

50

13.0 -7.8

2.4

+2.8

4.4

+0.8

13.0 -7.8

2.3

+2.9

2.9

+2.5

13.1 -7.9

1+00

2.6

+2.6

2.5

+2.5

12.0 -7.8

2.7

+2.5

2.5

+2.5

13.0 -7.8

2.5

+2.7

3+00

2.5

+2.5

+00

13.0 -7.8

2.4

+2.8

2.8

+2.5

2.4

+2.8

3.5

+1.5

+50

2.5

+2.7

3.1

+2.5

2.5

+2.7

3.4

+1.5

1+70

3.0

+2.2

3+50

4.4

+0.5

PX

100+00 N

100+00 N

6-27-50

(20)

DIST SOUND

DIST SOUND

0+00=152+00 N 3/4 : SOUND SOUTH

3+60 3.1 2.0

PX

DIST SOUND

DIST SOUND

3.5 1.9

(5:45)

0+00 2.3 3.1

1+80 2.8 2.6

4.3 1.1

2.9 3.0

2.7 2.7

2.0 -1.6

(5.4)

2.4 3.0

2+00 2.7 2.7

2+00 11.0 -5.6

2.6 2.8

4.5 0.9

12.3 -6.9

2.6 2.8

4.0 1.4

13.0 -7.6

50 2.5 2.9

3.0 2.4

12.8 -7.4

2.5 2.9

2.7 3.0

13.0 -7.6

2.5 2.9

50 2.2 3.2

50 13.0 -7.6

2.5 2.9

2.4 3.0

13.1 -7.7

2.5 2.9

2.3 3.1

13.2 -7.8

1+00 2.4 3.0

2.5 2.9

13.2 -7.8

2.4 3.0

2.7 2.7

13.4 -8.0

2.1 3.0

3+00 2.7 2.7

5+00 13.4 -8.0

2.4 3.0

2.7 2.7

2.4 3.0

2.8 2.6

50 2.7 2.7

2.8 2.6

2.7 2.7

3.3 2.1

1+70 2.6 2.8

3+50 3.3 2.1

PX 101+00

0+00 = 152+00N 3/4 : SOUND SOUTH

DIST SOUND DIST SOUND

0+00 2.1 3.5 1480 4.2

2.1 3.5 4.2

(5.6) (5.53) 3.0 2.6 2+00 2.0

2.3 3.3 2.0

2.3 3.3 2.0

50 2.4 3.2 2.1

2.4 3.2 2.1

2.4 3.2 50 2.2

2.4 3.2 2.2

2.4 3.2 2.3

1+00 2.4 3.2 2.3

2.4 3.2 2.8

2.4 3.2 3+00 3.1

2.4 3.2 3.0

2.3 3.3 3.0

50 2.3 3.3 3.0

2.5 3.1 3.0

1+70 3.2 3.4 3+50 3.0

PX 101+00N

DIST SOUND DIST SOUND

2+60 3.1 2.5

1.4 (5.6) 3.2 2.4

1.4 3.3 2.3

3.3 2.3

3.4 4.0 1.6

3.5 5.1 0.5

3.6 7.6 -2.0

3.7 11.8 -6.2

3.8 13.0 -7.4

3.9 50 13.2 -7.6

3.9 13.1 -7.5

3.9 13.1 -7.5

2.8 13.2 -7.6

2.7 12.1 -7.5

2.6 13.2 -7.6

2.6 100 PM

2.5

2.5

2+40

PX

102+00 W

0+00 = 152+00 3/4 : SOUND SOUTH

DIST	SOUND	DIST	SOUND
0+00	2.5	3.3	1+00 2.8
	2.8	3.0	2.8
(5.8) (6:05) P.M.	2.8	3.0	2+00 3.0
	2.9	2.9	2.8
50	2.9	2.9	2.7
50	3.8	2.0	2.9
	4.0	1.8	3.0
	4.0	1.8	50 2.9
	4.0	1.8	3.0
	4.0	1.8	3.0
1+00	4.0	1.8	3.0
	2.9	2.9	3.1
	2.8	3.0	3+00 3.1
	2.7	3.1	3.2
	2.5	3.3	3.2
50	3.0	2.8	3.3
	2.7	3.1	3.3
1+70	2.9	2.9	3+50 3.1

PX

102+00 W

DIST SOUND DIST SOUND

2+00	3.2	2.6	5+50	19.1	-8.3
(5.8)	3.2	2.6	(6:10) P.M.		
	3.3	2.5			
	3.5	2.3			
	3.8	2.0			
	3.8	2.0			
	3.9	1.9			
	4.0	1.8			
	5.2	0.6			
50	3.7	-3.9			
	12.8	-7.0			
	13.3	-7.5			
	13.2	-7.4			
	13.4	-7.6			
4+00	13.2	-7.4			
	13.2	-7.4			
	13.7	-7.5			
	13.8	-8.0			
4+70	14.2	-8.6			

Rx

103+00 W

0+00 = 152+00 N B/L : SOUND SOUTH

DIST SOUND DIST SOUND

0+00 2.6 3.3 1+80 3.1 28

2.1 3.3 3.1 28

(5.9) 2.8 3.1 2+00 3.0 29

(6:15) 2.7 3.2 3.1 29

2.6 3.3 3.0 29

50 2.7 3.2 3.0 29

2.7 3.2 3.0 29

2.8 3.1 50 3.1 29

2.9 3.0 3.2 29

3.0 2.9 3.3 29

1+00 3.0 2.9 3.3 29

3.0 2.9 3.2 29

2.9 3.0 3+00 3.3 29

3.0 2.9 3.3 29

3.0 2.9 3.4 29

50 3.0 2.9 3.4 29

3.0 2.9 3.5 29

1+70 3.0 2.9 3+50 3.7 29

Rx

103+00 W

DIST SOUND DIST SOUND

150 3.7 2.2 5+50 19.2 15.6 -8.7

(5.9) 3.5 2.4 19.7 -8.8

3.7 2.2 19.8 -8.9

3.9 2.0 19.8 -8.9

4.0 1.9 19.7 -8.8

4.0 1.9 6+00 19.7 -8.8

4.0 1.9 (6:20) PM

4.0 1.9

4.0 1.9

50 4.4 1.5

4.6 1.3

5.7 1.8

8.5 -2.6

12.5 -6.7

13.8 -7.9

19.5 -8.6

19.5 -8.6

19.6 -8.7

19.6 -8.7

19.6 -8.7

PX

104+00 W

0+00 = 152+00 N B/L : SOUND SOUTH

DIST SOUND DIST SOUND

0+00 2.7 3.4 1+80 3.5 2.6

2.1 3.5 3.5 2.6

(6.1) (6:25) PM 2.8 3.3 2+00 3.5 2.6

2.5 3.6 3.5 2.6

2.8 3.3 3.7 2.6

50 2.9 3.2 3.7 2.6

2.9 3.2 3.7 2.6

3.0 3.1 50 3.7 2.6

3.0 3.1 3.7 2.6

3.1 3.0 3.8 2.6

1+00 3.1 3.0 3.8 2.6

3.2 2.9 3.9 2.6

3.2 2.9 3+00 3.9 2.6

3.3 2.8 4.0 2.6

3.5 2.6 4.0 2.6

50 3.5 2.6 4.0 2.6

3.5 2.6 4.1 2.6

1+70 3.5 2.6 3+50 4.1 2.6

PX

104+00 W

6-29-50

(24)

DIST SOUND

DIST SOUND

4+00 4.1 2.0 5+50 19.8 -8.7

4.2 1.9 19.8 -8.7

4.2 1.9 (6.1) 19.8 -8.7

4.3 1.8 19.5 -8.4

4.3 1.7 19.5 -8.4

4.4 1.7 6+00 19.6 -8.5

4.5 1.6 (6:35) PM

4.4 1.7

4.4 1.7

50 4.7 1.4

4.8 1.3

4.8 1.3

4.9 1.2

5.2 0.9

1+00 7.3 -1.1

12.6 -6.5

14.0 -7.9

14.5 -8.4

1+40 14.5 -8.4

PX

105+00 W

0+00=152+00 N 8/4: SOUND SOUTH

	DIST	SOUND		DIST	SOUND
	0+00	3.0	3.4	1+80	4.0
		3.0	3.4		3.9
	(6.4)(6:38)	2.8	3.6	2+00	4.0
		3.1	3.3		4.0
		3.3	3.1		4.0
	50	3.3	3.1		4.1
		3.2	3.4		4.1
		3.2	3.4	50	4.1
		3.3	3.3		4.1
		3.4	3.0		4.1
	1+00	3.4	3.0		4.1
		3.5	2.9		4.2
		3.5	2.9	3+00	4.2
		3.6	2.8		4.2
		3.7	2.7		4.3
	50	3.7	2.7		4.5
		3.8	2.6		4.5
	1+70	3.9	2.5	3+50	4.5

PX

105+00 W

6-27-50

(25)

	DIST	SOUND		DIST	SOUND
	3+60	4.5	1.9	5+50	19.5
		4.6	1.8	(6.4)	19.8
		4.7	1.7		15.0
		4.7	1.7		15.0
	4+00	4.8	1.6		19.9
		4.8	1.6	6+00	15.0
		4.8	1.6		17.8
		4.7	1.7		17.8
		4.8	1.6		15.0
	50	5.0	1.4		15.0
		5.0	1.4	50	15.0
		5.0	1.4	(6:48)	
		5.1	1.3	P.M.	
		5.3	1.1		
	5+00	5.7	1.1		
		5.7	1.1		
		6.2	0.2		
		9.1	-2.7		
	5+40	12.7	-6.3		

PX

106+00W

0400 = 152+00N B/L : SOUND SOUTH

DIST SOUND DIST SOUND

0400 3.0 3.5 1480 4.0 2.5

3.0 3.5 41 2.4

(6.5) (6.52) 3.0 3.5 2400 4.1 2.4

P.M. 3.0 3.5 41 2.4

3.0 3.5 42 2.4

50 3.0 3.5 42 2.3

3.4 3.1 50 4.3 2.2

3.5 3.0 50 4.7 1.8

3.6 2.9 4.5 2.0

3.6 2.9 4.5 2.0

1400 3.6 2.9 4.5 2.0

3.7 2.8 4.5 2.0

3.8 2.7 3400 4.6 1.9

4.0 2.5 4.8 1.7

4.0 2.5 4.8 1.7

50 4.0 2.6 5.1 1.4

4.0 2.5 5.0 1.5

1470 4.0 2.5 3450 5.0 1.5

6-27-50

(26)

PX

106+00W

DIST SOUND

DIST SOUND

3460 5.0 1.5 5450 7.0 -0.5

5.0 1.5 10.0 -3.5

5.2 1.3 13.5 -7.0

5.1 1.4 14.7 -8.2

5.3 1.2 15.1 -8.6

5.3 1.2 6400 15.2 -8.7

5.3 1.2 15.2 -8.7

5.3 1.2 15.2 -8.7

5.5 1.0 15.2 -8.7

50 5.5 1.0 15.3 -8.8

5.5 1.0 50 15.3 -8.8

5.7 0.8 (7:02) P.M.

5.6 0.9

5.6 0.9

5.7 0.8 5400

5.7 0.8

6.0 0.5

6.0 0.5

490 6.2 0.3

107+00W

0+00=152+00N B/L: SOUND SOUTH

DIST	SOUND	DIST	SOUND
0+00	3.4 3.3	1+80	4.1 2.6
	3.4 3.3		4.1 2.6
(6.7) (7:05) AM	3.4 3.3	2+00	4.2 2.5
	3.4 3.3		4.2 2.5
	3.5 3.2		4.3 2.4
50	3.5 3.2		4.4 2.3
	3.5 3.1		4.5 2.2
	3.8 2.9	50	4.5 2.2
	3.8 2.9		4.5 2.2
	3.9 2.8		4.5 2.2
1+00	4.0 2.7		4.7 2.0
	4.1 2.6		5.0 1.7
	4.1 2.6	3+00	5.0 1.7
	4.1 2.6		5.1 1.6
	4.1 2.6		5.2 1.5
50	4.1 2.6		5.3 1.4
	4.1 2.6		5.3 1.4
1+20	4.1 2.6	3+50	5.5 1.2

107+00W

DIST SOUND

DIST	SOUND	DIST	SOUND
3+00	5.5 1.2	5+50	6.3 0.4
	5.5 1.2		6.5 0.2
	5.5 1.2	(6.7)	6.5 0.2
	5.7 1.0		8.0 -1.3
4+00	5.7 1.0		13.4 -6.7
	5.7 1.0	6+00	15.0 -8.3
	5.7 1.0		15.3 -8.6
	5.8 0.9		15.5 -8.8
	5.8 0.9		15.5 -8.8
50	5.8 0.9		15.4 -8.7
	6.0 0.7	50	15.3 -8.6
	6.0 0.7		15.3 -8.6
	6.0 0.7		15.1 -8.4
	6.0 0.7		15.0 -8.3
5+00	6.0 0.7		15.0 -8.3
	6.1 0.6	7+00	15.0 -8.3
	6.1 0.6	(7:18) AM	
	6.2 0.5		
5+40	6.2 0.5		

PX

108+0.0W

0 0+00 = 152+00 N 7/11: SOUND SOUTH

DIST SOUND DIST SOUND

0+00 3.5 3.4 1+80 4.5 2.4

3.6 3.3 4.5 2.4

(6:24) P.M. 3.6 3.3 2+00 4.7 2.2

3.9 3.0 4.7 2.2

(6.9) 3.1 3.5 4.5 2.4

50 3.1 3.5 4.7 2.2

3.5 3.4 4.6 2.3

3.7 3.2 50 3.2 1.7

4.0 2.9 5.1 1.6

4.0 2.9 3.1 1.8

1+00 4.2 2.7 5.0 1.9

4.2 2.7 5.0 1.9

4.4 2.5 3+00 5.1 1.6

4.4 2.5 5.2 1.7

4.5 2.4 5.2 1.2

50 4.5 2.4 5.6 1.3

4.5 2.4 5.6 1.3

1+20 4.5 2.4 3+50 5.8 1.1

PX

108+00 W

DIST SOUND DIST SOUND

3+60 5.9 1.0 5+50 6.8 0.1

6.0 0.9 (6.9) 6.8 0.1

6.1 0.8 6.8 0.1

6.2 0.7 7.0 -0.1

4+00 6.2 0.7 7.1 -0.2

6.2 0.7 6+00 7.4 -0.8

6.2 0.7 8.7 -1.8

6.3 0.6 12.5 -5.6

6.3 0.6 14.0 -7.1

50 6.5 0.4 15.0 -8.1

6.5 0.4 50 15.0 -8.1

6.5 0.4 15.0 -8.1

6.5 0.4 15.0 -8.1

6.5 0.4 15.0 -8.1

5+00 6.5 0.4 15.0 -8.1

6.6 0.3 7+00 15.0 -8.1

6.8 0.1 (7:32) P.M.

6.8 0.1

5+40 6.8 0.1

6-27-50

(28)

PX

109+00 W

0+00 = 152+00 B/L: SOUND SOUTH

DIST SOUND DIST SOUND

0+00 4.0 3.1 1480 4.8 2.3

(2.1) (2:37) 4.1 3.0 4.8 2.3

P.M.

4.2 2.9 2+00 5.0 2.1

4.2 2.9 5.0 2.1

4.2 2.9 5.0 2.1

50 4.4 2.7 5.0 2.1

4.3 2.8 5.0 2.1

4.4 2.7 50 5.0 2.1

4.4 2.7 5.2 1.9

4.5 2.6 5.4 1.7

1+00 4.5 2.6 5.5 1.6

4.5 2.6 5.4 1.7

4.5 2.6 3+00 5.6 1.5

4.5 2.6 5.6 1.5

4.5 2.6 5.8 1.3

50 4.6 2.5 6.1 1.0

4.5 2.6 6.0 1.1

1+70 4.8 2.3 3+50 6.2 0.9

PX

109+00 W

DIST SOUND

DIST SOUND

3+60 6.0 1.1 5+50 2.0 0.1

(7.1) 6.0 1.1 7.0 6.1

6.3 0.8 2.0 0.1

6.4 0.7 2.0 0.1

6.4 0.7 2.0 0.1

6.6 0.5 6+00 2.0 0.1

6.6 0.5 2.0 0.1

6.6 0.5 2.1 0.0

6.6 0.5 2.5 -0.4

50 6.8 0.3 12.0 -4.9

6.8 0.3 50 16.5 -9.4

6.9 0.2 16.4 -9.3

6.9 0.2 16.1 -9.0

6.9 0.2 15.8 -8.7

6.9 0.2 15.7 -8.6

6.9 0.2 7+00 15.8 -8.7

2.0 0.1 15.6 -8.5

2.0 0.1 15.6 -8.5

5+40 2.0 0.1 7+30 15.6 -8.5

6-27-50

(29)

P.M.

(7:48)

PX

110+00W

0+00 = 152+00H B/K : SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	4.4	2.9	1+80	5.2	2.1
(7.3)	4.4	2.9		5.1	2.2
*	4.5	2.8	2+00	5.1	2.2
PM (2:53)	4.4	2.9		5.2	2.1
	4.5	2.8		5.4	1.9
50	4.6	2.7		5.3	2.0
	4.6	2.7		5.4	1.9
	4.7	2.6	50	5.4	1.9
	4.8	2.5		5.3	2.0
	4.8	2.5		5.8	1.5
1+00	4.9	2.4		5.8	1.5
	4.9	2.4		6.1	1.2
	5.0	2.3	3+00	6.1	1.2
	5.0	2.3		6.2	1.1
	5.0	2.3		6.3	1.0
50	5.0	2.3		6.4	0.9
	5.0	2.3		6.4	0.9
1+70	5.2	2.1	3+50	6.4	0.9

6-27-50

(30)

PX

110+00W

DIST	SOUND		DIST	SOUND	
3+60	6.6	0.7	5+50	7.1	0.2
(7.3)	6.5	0.8		7.1	
	6.7	0.6		7.1	
	7.0	0.3		7.1	
2+00	7.0	0.3		7.1	
	7.0	0.3	6+00	7.1	
	7.0	0.3		7.1	
	7.0	0.3		7.1	0.2
	7.0	0.3		7.5	-0.2
50	7.0			7.5	-0.2
	7.0		50	8.2	-0.9
	7.0			9.2	-1.9
	7.0			12.5	2.1 -5.2
	7.0			14.1	6.0 -6.8
5+00	7.0			15.1	8.0 -7.8
	7.0		2+00	15.1	-7.8
	7.0		10	15.0	(2.3) -7.7
	7.0		20	15.0	-7.7
	7.0		(8:00) 30	15.0	-7.7
	7.0		40	15.0	-7.7
7+40	7.0	0.3	2+50	15.0	-7.7

PX

PROFILE WEST STA 152+00N.

0+00 = 98+00 West

Sta	+	H. I	-	Elev
LEVEL WATER	9.27	13.67		4.40
W 0.0			7.1	9.6
W 0+06			6.3	7.9
			7.6	
0+32			7.6	6.1
0+62			8.6	5.1
0+72			9.3	7.7

STAMPA
BARRAGAN
SHERRY
BROWN
CARVER

9-5-50

(31)

H₂O level @ 2:00 P.M.

5
-8.6
-8.5

PX

STA - 111+00 W

0+00 = 157+00 N B/L: SOUND SOUTH

DIST SOUND DIST SOUND

0+00 2.9 2.2 1+80 2.5 2.1

4+10 2.9 " 2.5 2.1

(4.6) 2.9 " 2+00 2.6 2.0

2:20 PM 2.9 " 2+00 2.6 2.0

2.9 " 2.8 1.8

50 2.9 " 2.8 1.8

2.5 2.1 3.0 1.6

2.9 2.2 50 3.0 1.6

2.5 2.1 3.1 1.5

2.5 2.1 3.3 1.3

1+00 2.6 2.0 3.2 1.2

2.9 2.2 3.2 1.2

2.9 2.2 3+00 3.3 1.0

2.9 2.2 3.9 0.7

2.9 2.2 4.0 0.6

50 2.9 2.2 4.0 0.6

2.5 2.1 3.8 0.8

5 2.1 3+50 3.8 0.8

PX

STA - 111+00 W

STAMPER
BARBAGAN
SHERRY7-5-50
FAIR WIND

(32)

DIST SOUND

DIST SOUND

3+60 3.8 0.8 5+50 4.9 0.2

3.8 0.8 7.9 0.2

(4.6) 4.1 0.5 4.5 0.1

4.3 0.3 4.9 0.2

4+60 4.4 0.2 4.9 0.2

4.4 0.2 6+00 4.5 0.1

4.2 -0.1 4.7 -0.1

4.6 0.0 4.7

4.6 0.0 4.7

50 4.4 0.2 4.7

4.3 0.3 50 4.7 -0.1

4.3 6.2 -0.6

4.3 11.0 -6.4

4.3 14.3 -9.7

4+00 4.3 14.0 -9.4

4.3 0.3 7+00 13.2 -8.6

4.4 0.2 13.0 -8.4

4.4 0.2 (2:27 PM) 13.1 -8.5

4+90 4.4 0.2 13.1 -8.5

7+30 13.2 -8.6

8+00 13.1 -8.5

112+00 W

0+00 = 152+00 N B/H : SOUND SOUTH

DIST SOUND

DIST SOUND

0+00 3.0 1.8 1+80 3.4 1.8

3.0 1.8 3.3 1.8

(4.8) 3.1 1.7 2+00 3.3 1.8

3.1 1.7 3.4 1.8

3.0 1.8 3.5 1.8

50 3.0 1.8 3.6 1.8

3.6 1.8 3.8 1.8

3.0 1.8 50 4.7 0.8

3.0 1.8 7.4 -2.5

3.0 1.8 10.1 -5.5

1+00 3.5 1.3 10.4 -5.5

3.4 1.4 10.7 -5.5

3.3 1.5 3+00 11.0 -6.5

3.1 1.7 10.8 -6.5

3.1 1.7 10.8 -6.5

50 3.1 1.7 10.7 -5.5

3.1 1.7 10.9 -6.5

1+70 3.5 1.3 3+50 10.7 -5.5

112+00 W

DIST SOUND

DIST SOUND

3+60 10.7 -5.9 5+50 10.3 -5.5

(4.8) 10.7 -5.9 10.3 -5.5

10.7 -5.9 10.3 -5.5

10.5 -5.7 10.3 -5.5

10.7 -5.9 10.2 -5.4

10.7 -5.9 6+00 10.2 -5.4

10.5 -5.7 10.2 -5.4

10.8 -6.0 10.3 -5.5

10.8 -6.0 11.0 -6.2

50 10.7 -5.9 10.8 -6.0

10.7 -5.9 50 11.0 -6.2

10.5 -5.7 11.1 -6.3

10.5 -5.7 11.9 -7.1

10.4 -5.6 12.8 -8.0

10.3 -5.5 13.0 -8.2

10.3 -5.5 7+00 13.0 -8.2

10.4 -5.6 13.0 -8.2

10.4 -5.6 13.1 -8.3

10.4 -5.6 13.1 -8.3

10.4 -5.6 7+40 12.5 -7.9

PX

113+00 W

DIST	SOUND	DIST	SOUND
3+60	10.4 -5.5	5+50	10.4 -5.5
(4.9)	10.4 -5.5		10.4 -5.5
	10.4 -5.5		10.8 -5.9
	10.5 -5.6		10.5 -5.6
4+00	10.4 -5.5		10.4 -5.5
	10.3 -5.4	6+00	10.4 -5.5
	10.3 -5.4		10.6 -5.7
	10.4 -5.5		10.8 -5.9
	10.4 -5.5		11.0 -6.1
50	10.4 -5.5		10.8 -5.6
	10.4 -5.5	50	10.8 -5.6
	10.6 -5.7		10.8 -5.9
	10.7 -5.8		11.0 -6.1
	10.7 -5.8		11.0 -6.1
5+00	10.6 -5.7		11.0 -6.1
	10.5 -5.6	7+00	11.1 -6.2
	10.4 -5.5		11.3 -6.4
	10.4 -5.5		11.3 -6.4
5+00	10.4 -5.5	7+30	11.8 -6.9

PX

113+00 W

(35)

DIST	SOUND	DIST	SOUND
7+90	12.0 -7.1		
50	12.2 -7.3		
	13.0 -8.1		
	13.0 -8.1		
	12.9 -8.0		
	12.8 -7.9		
6+00	13.0 -8.1		
	13.0 -8.1		
	13.0 -8.1		
	13.0 -8.1		
	13.0 -8.1		
	13.0 -8.1		
	13.0 -8.1		
	12.8 -7.9		
	13.7 -7.8		

114+00 W

114+00 W

0+00 = 152+00 N 8/2; SOUND SOUTH

DIST SOUND

DIST SOUND

DIST SOUND

DIST SOUND

7+60

10.7

-5.7

5+50

11.0

-6.0

0+00

3.4

1.6

1+80

4.0

1.0

10.9

-5.9

11.0

-6.0

3.4

1.6

4.0

1.0

(5.0)

10.8

-5.8

11.0

-6.0

(5.0)

3.4

1.6

2+00

4.1

0.8

10.7

-5.7

11.0

-6.0

(3.05
RM)

3.5

1.5

4.1

0.8

4+00

10.7

-5.7

11.0

-6.0

3.8

1.2

4.2

0.8

10.5

-5.5

6+00

11.0

-6.0

50

3.8

1.2

4.2

0.8

10.0

-5.0

11.0

-6.0

3.8

1.2

4.3

0.7

10.8

-5.8

11.0

-6.0

3.8

1.2

50

4.4

0.6

11.5

-6.5

10.9

-5.9

3.8

1.2

4.4

0.6

50

11.2

-6.2

11.0

-6.0

3.8

1.2

4.5

0.5

11.0

-6.0

50

11.0

-6.0

1+00

3.8

1.2

4.5

0.5

10.8

-5.8

11.0

-6.0

4.2

0.8

4.5

0.5

10.6

-5.6

11.0

-6.0

4.0

1.0

3+00

4.5

0.5

10.7

-5.7

11.0

-6.0

4.0

1.0

5.0

0.5

5+00

11.0

-6.0

11.0

-6.0

3.9

1.1

6.5

-1.5

11.0

-6.0

7+00

11.0

-6.0

50

3.9

1.1

8.8

-3.8

11.0

-6.0

9.8

-4.8

4.0

1.0

10.1

-5.1

11.0

-6.0

6.0

-1.0

1+70

4.0

1.0

3+50

10.4

-5.4

5+40

11.0

-6.0

7+40

6.0

-1.0

6.0

-1.0

PX 114+00 W			PX 114+00 W			PX 114+00 W		
DIST	SOUND		DIST	SOUND		DIST	SOUND	
			<u>SOUND</u>	<u>NORTH</u>	(Same as)			
7+50	5.9	-0.9	0+00	3.5	1.5	2+00	3.0	2.0
(5.0)	5.8	-0.8	+10	3.5	1.5		2.9	2.1
	6.2	-1.2		3.5	1.5	(5.0)	2.9	2.1
	7.4	-2.4		3.4	1.6		2.9	2.1
	12.4	-7.4		3.4	1.6	50	2.9	2.1
8+00	12.4	-7.4	50	3.3	1.7	50	2.8	2.2
	13.3	-8.3		3.3	1.7		2.8	2.2
	13.3	-8.3		3.2	1.8		2.8	2.2
	13.1	-8.1		3.2	1.8		2.9	2.3
	13.0	-8.0		3.2	1.8		2.7	2.3
50	12.9	-7.9	1+00	3.2	1.8	2+00	2.7	2.3
	13.1	-8.1		3.1	1.9			
	13.1	-8.1		3.1	1.9			
	13.0	-8.0		3.1	1.9			
	13.0	-8.0		3.1	1.9			
9+00	13.2	-8.2	50	3.1	1.9			
(3:15) P.M.				3.0	2.0			
				3.0	2.0			
				3.0	2.0			
			1+90	3.0	2.0			
			2+00	3.0	2.0			

PX

7-6-50
98+00 W

Dist	Sound	Dist	Sound
0+00	152+00 N B/L	2	2.1
0+50	0.0 4.3	2.2	2.1
(4.3)	0.6 3.7	3.0	1.2
2 PM	1.2 3.1	3.2	1.4
	1.0 3.3 +50	3.3	1.0
	1.1 3.2	3.6	0.7
14+00	1.6 2.7	2.0	2.1
	1.8 2.5	2.2	2.1
	1.5 2.8	2.3	2.0
	1.8 2.3 3+00	2.1	2.1
	1.8 2.5	2.6	1.1
+50	2.0 2.3	3.2	1.1
	2.1 2.2	4.6	-0.1
	2.0 2.3	8.0	-3.1
	2.0 2.3 +50	10.3	-6.1
	2.0 2.3	10.5	-6.5
8+00	2.0 2.3	10.7	-6.1

PX 7-6-50

(38)

Dist	Sound	Dist	Sound
10.9	-6.6	11.0	-7.6
11.0	-6.7	6.0	-1.7
11.0	-6.7	5.2	-0.9
11.1	-6.8 6+00	5.0	-0.7
(43) 11.3	-7.0	5.0	-0.7
11.5	-7.2		
11.9	-7.6		
11.9	-7.6		
11.8	-7.5		
11.7	-7.4		
11.9	-7.6		
11.7	-7.4		
11.6	-7.3		
11.7	-7.4		
11.8	-7.5		
11.9	-7.6		
11.9	-7.6		
12.0	-7.7		

Px

7-6-50
97+00 W

Dist	Sound	Dist	Sound
0+00 = 152+00 N		3/4	Sound South
		50	2.8 1.6
0+85	0.0 4.4		2.6 1.8
0+00	1.0 3.4		3.2 1.2
	1.3 3.1		4.5 -0.1
	1.7 2.7		4.0 +0.4
	1.8 2.6	3+00	3.6 0.8
	2.0 2.4		5.9 -1.5
(4.4) ⁺⁵⁰ 2:20 PM	2.1 2.3		8.3 -3.9
	2.5 1.9		9.0 -4.6
	2.5 1.9		9.8 -5.4
	2.5 1.9	+50	10.2 -5.8
	2.4 2.0		11.0 -6.6
2+00	2.5 1.9		11.3 -6.6
	2.5 1.9		11.1 -6.7
	2.7 1.7		11.1 -6.7
	2.8 1.6	4+00	11.6 -7.2
	2.8 1.6		11.3 -6.9

Dist Sound Px 7-6-50

(39)

11.6	-7.2
11.5	-7.1
11.7	-7.3
11.8	-7.4

PX

7-6-50
96+00 W0+00 = 152+00 N $\frac{3}{4}$ Sound South

Dist	Sound	Dist	Sound
0+00		3.0	1.5
1+03	0.0	3.7	0.8
+10	0.5	4.2	0.3
(4.5)	1.4	8.8	-4.3
2:30 PM	1.7	3+00 10.5	-6.0
	2.0	11.0	-6.5
50	2.0	11.2	-6.7
	2.6	11.5	-7.0
	2.9	11.3	-6.8
	2.9	50 11.8	-7.3
	2.7	11.9	-7.4
2+00	3.2	11.9	-7.4
	2.9	11.8	-7.3
	2.9	11.9	-7.4
	2.9	1.6	4+00 12.0
	2.8	11.9	-7.6
50	2.8	12.0	-7.5

PX

7-6-50
95+00 W00+00 152+00 N $\frac{3}{4}$ Sound South

Dist	Sound	Dist	Sound
0+00		11.2	-6.5
1+18	0.0	4.7	11.3
+30	0.6	4.1	3+00 10.9
	1.7	3.0	11.9
	2.0	2.7	12.0
	2.2	2.5	12.0
50	2.6	2.1	12.0
50	2.8	1.9	12.0
	3.2	1.5	12.0
	3.2	1.5	12.0
	3.0	1.7	12.0
	3.1	1.6	12.0
	3.1	1.6	12.0
	3.3	1.4	12.0
50	4.1	1.6	12.0
	7.3	-2.6	12.0
	10.5	-5.8	12.0

(40)

PX

7-6-50
94+00 W0+00 = 150+00 N $\frac{B}{L}$ Sound South

Dist	Sound	Dist	Sound
0+00		12.0	-7.2
1+13	0.0 4.8	11.9	-7.1
+20	0.4 4.4	12.0	-7.2
<u>4.8</u>	1.0 3.8	3+00 12.0	-7.2
2:55 PM	1.6 3.2	11.9	-7.1
+50	2.2 2.6	12.0	-7.2
	2.8 2.0	12.1	-7.3
	3.0 1.8	12.0	-7.2
	3.4 1.4	3+50 12.1	-7.3
	3.8 1.0		
2+00	4.6 0.2		
	5.8 -1.0		
	6.8 -2.0		
	8.0 -3.2		
	11.9 -7.1		
50	12.0 -7.2		
	12.0 -7.2		

PX

7-6-50
93+00 W

(41)

0+00 = 152+00 N $\frac{B}{L}$ Sound South

Dist	Sound	Dist	Sound
0+00		13.0	-8.0
0+98	0.0 5.0	13.0	-8.0
1+10	1.0 4.0	12.9	-7.9
<u>6.0</u>	1.8 3.2	12.9	-7.9
3:10 PM	2.2 2.8	3+00 12.9	-7.9
	3.1 1.9	12.9	-7.9
+50	4.1 0.9	12.8	-7.8
	5.4 -0.4	12.9	-7.9
	6.9 -1.9	12.8	-7.8
	8.0 -3.0	50 12.5	-7.5
	8.8 -3.8	12.6	-7.6
2+00	9.1 -4.1	12.7	-7.7
	10.1 -5.1	12.8	-7.8
	11.0 -6.0	12.8	-7.8
	11.9 -6.9	4+00 12.7	-7.7
	12.2 -7.2	12.8	-7.8
50	12.5 -7.5	12.8	-7.8

PX
Dist Sound Dist Sound

12.7 -7.7

11.3 -6.3

+50 11.0 -6.0

5.9 -0.4

(5.0) 5.5 -0.5

5.2 -0.2

5.3 -0.3

5+00 5.5 -0.5

5.4 -0.4

5.5 -0.5

5.6 -0.6

5.6 -0.6

.50 5.5 -0.5

5.5 -0.5

5.5 -0.5

PX 92+00 W

(42)

0+00 = 152+00 N $\frac{8}{4}$ Sound South

Dist Sound Dist Sound

0+00

12.8 -7.7

0+65 0.0 5.1

13.0 -7.9

0+70 0.2 4.9

13.0 -7.9

+80 0.6 4.5

+50 13.0 -7.9

1.7 3.4

13.0 -7.9

1+00 2.3 2.8

13.0 -7.9

(5.1) 3.0 2.1

13.0 -7.9

3:25 PM 4.1 1.0

13.0 -7.9

5.2 -0.1 3+00 13.0 -7.9

6.4 -1.3

150 ~~7.8~~
3.8 -2.7

8.5 -3.4

9.0 -3.9

10.3 -5.2

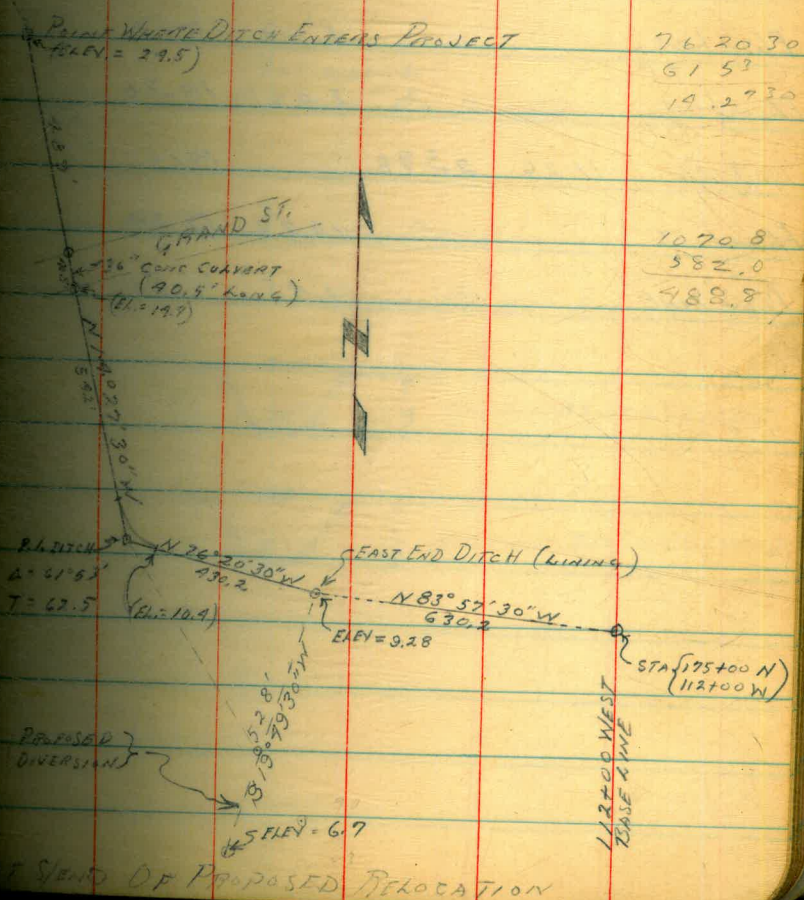
11.4 -6.3

2+00 12.5 -7.4

13.0 -7.9

LOCATION OF CONC. LINED DRAIN DITCH
AT BAYVIEW TERRACE.

STA	OBJECT	ANGLE	BENDING
	DUE NORTH	① 83° 57' 30"	
(175400 N) (112400 W)	ANGLE LT.	② 167° 55' 00"	N 83° 57' 30" W
	EAST END OF DITCH = 0+00	AV. 83° 57' 30"	
	(175400 N) (112400 W)		
0+00	DEF. RT. (4+30.2) P.I. OF DITCH	① 7° 37' 00"	N 76° 20' 30" W
	0+00		
(4+30.2) P.I. OF DITCH	DEF. RT. & OF DITCH GOING NORTH	① 61° 53'	N 19° 27' 30" W
	P.I. OF DITCH		
0+00	ANGLE LT.	① 89° 50'	S 13° 41' 00" W
	& OF PROPOSED RE-LOCATION OF OUTLET		
T.P	4.09	10.80	ELEV = 6.7
	3.7	6.7	ELEV = 6.7



7620.30
61.53
19.2730

1070.8
582.0
488.8

FLIGHT SECT OF PROPOSED RELOCATION

FLOW LINE GRADES OF DRAIN DITCH BAYVIEW TERRACE

STA	+	H.I.	-	ELEV
B.M.	3.96	13.70		9.74
T.P.	5.90	16.70	2.60	10.80
Flow line			2.42	9.38
Flow line			6.33	10.37
Flow line			6.09	10.61
T.P.			2.00	19.70
T.P.	11.26	25.96		19.70
Flow line			10.72	15.29
Flow line			1.45	29.51

STA - 175+00 NORTH & 112+00 WEST (TOPHUR)

EXTREME N/E EDGE OF CONC FLUME

SEMI-CIRCLE DITCH ON CONC AT OUTLET

APPROX. B.C. OF CURVE (BOTTOM CENTER)

" E.C. " " " " "

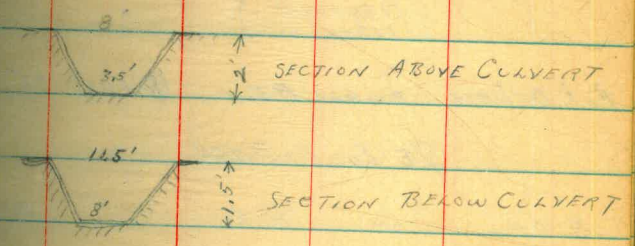
(40.5' WIDE) 36"

HEAD OF CULVERT ON DITCH 541.8' P.I.

36"

HEAD OF CULVERT ON DITCH

POINT WHERE DITCH ENTERS PROJECT FROM NORTH 1+70.3' ELEV. P.I.



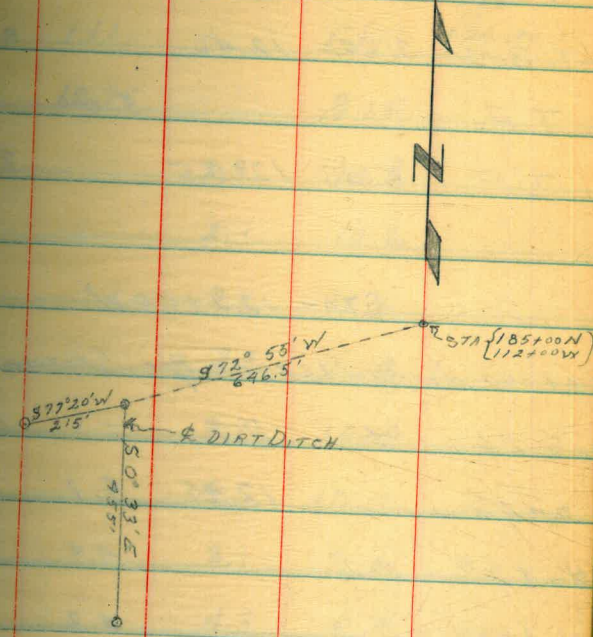
LOCATION OF DIRT DRAIN DITCH AT
 BAYVIEW TERRACE

STA OBJECT ANGLE
 DUE SOUTH
 STA (112+00W)
 (185+00N) ANGLE RT. @ 72° 55'
 P.L. OF DIRT DITCH

(112+00W)
 (185+00N)
 P.L. OF DITCH DEF RT. @ 9° 25'
 WEST END DITCH

(185+00N)
 (112+00W)
 P.L. OF DITCH ANGLE RT. @ 106° 32'
 S/E END OF DITCH

STA	+	H.I.	-	ELEV
T.B.M.	6.85	17.93		10.58
BOTTOM DITCH			5.0	
"			5.3	
"			7.7	



STA 185+00N 112+00W (TOP HUB)
 (DIRT DITCH NOT TOO DISTINCT IN PLACES.)
 BOTTOM OVER GROWN WITH GRASS & WEEDS.
 APPROX WIDTH 3' APPROX DEPTH 1'

PX
X-SECTIONS OF BAYVIEW TERRACE (WEST END)

STA	+ H.L.	- ELEV
T.B.M.	3.62 12.46	8.84
T.P.		5.06 7.90
T.P.	5.05 12.45	7.40

STA- 122+00 W

0+00 = NORTH 168+00 B/K; SECTION N/P/S

STA	+ H.L.	- ELEV
0+00	12.45	5.1 7.3
N +50		4.4 8.0
N 1+00		4.3 8.1
N 1+55		4.2 8.2
N 2+10		4.4 7.8
N 2+55		4.3 8.1
N 3+10		5.0 7.4
N 3+18		4.2 8.2
N 3+70		3.5 8.9
N 4+20		3.3 9.1
N 4+76		2.6 9.8
N 5+20		2.2 10.2
N 5+70		2.1 10.3
TP		4.30 8.15

PX

430
C. BARRAGAN
A. SHERIDAN
W. CAMBER
7-19-50

(46)

Sta	+ H.L.	- ELEV
Sta 123+00		
4.60	12.75	8.15
4.70		1.9 10.8
4.60		2.1 10.6
4.60		2.1 10.6
4.50		3.3 9.4
4.50		2.7 10.0
4.40		4.6 10.1
4.35		3.1 9.6
4.30		4.3 8.4
4.30		4.1 8.6
4.20		4.2 8.5
4.20		4.1 8.6
4.20		4.7 8.0
4.10		4.9 7.8
4.00		5.8 6.9
3.90		5.1 7.6
3.90		5.1 7.6
3.80		5.5 7.2

PX

Sta 124+00

Sta	+	HI	-	Elev	Hub
T.B.M.	5.04	13.19		8.15	124100
S 1+90			5.4	7.8	
S 0+93			5.9	7.3	
0+00			5.2	7.0	
N 0+50			5.0	8.2	
N 1+00			4.8	8.4	
N 1+50			4.8	8.4	
N 2+05			4.9	8.3	
N 2+55			5.0	8.2	
^{300'} 0° 39' N/W			4.00	9.19	
N 3+60			4.6	8.6	
N 3+80			3.8	9.4	
T.B.M.		12.93		8.15	
Ext. 7-25-50		12.93	3.5	9.5	
N 4.30					

PX

7-19-50
Sta 125+00

(47)

Sta	+	HI	-	Elev	Hub
T.B.M.	4.97	13.12		8.15	124100
			2.7	11.4	
			2.9	10.2	
			4.8	8.3	
			5.0	8.1	
			5.0	8.1	
			5.0	8.1	
			5.2	7.9	
			5.1	8.0	
			5.2	7.9	
			4.9	8.2	
			5.9	7.2	

PX

Sta 126+00

Sta	+ HI	-	Elev	Hub
TBM	4.55	12.60	8.15	129+00
S 2+00		4.7	7.9	
S 1+00		4.5	8.1	
0+00		5.1	7.5	
		4.8	7.4	
N 0+50		4.7	7.9	
N 1+05		4.6	8.0	
N 1+50		4.8	7.8	
N 2+10		4.6	8.0	
N 2+60		4.4	8.2	
N 3+15		4.6	8.0	
N 3+65		4.2	8.4	
N 4+15		2.5	10.1	
N 4+60		2.1	10.5	
N 5+10		2.2	10.4	
N 5+50		1.7	10.9	
N 6+00		1.6	11.0	
N 6+60				

PX Sta 127+00

(48)

Sta	+ HI	-	Elev	Hub
TBM	4.63	12.78	8.15	Sta 124+00
SP		5.02	7.76	Hub Sta 126+00
		1.2	11.6	
		1.4	11.4	
		2.4	10.4	
		3.7	9.1	
		4.6	8.2	M.H
		2.40	10.38	
		4.8	8.0	
		4.8	8.0	
		5.8	7.0	
		5.5	7.3	
		5.4	7.4	
		5.0	7.8	
		5.1	7.7	
		5.1	7.7	
		5.2	7.6	
		5.2	7.6	

PX Sta 119+00

0+00 = 1168+00 TBL

Sta	+	H1	-	Elev
TB. 11	4.66	12.06		7.40
N 2+00			4.7	7.4
N 1+50			4.8	7.3
N 1+05			4.8	7.3
N 53			5.0	7.1

TP.

0+00			5.0	7.1
S 50			4.8	7.3
S 100			5.0	7.1
S 150			5.2	6.9
S 200			5.0	7.1
S 2+50			4.8	7.3
S 3+00			5.1	7.0
S 3+55			5.2	6.9
S 4+05			5.4	6.7
S 4+60			5.7	6.4
S 5+15			6.1	6.0

Sta 119+00

PX

(49)

Sta	+	H1	-	Elev
		12.06		
S 5+70			6.2	5.9
S 5+20			6.3	5.8
S 6+75			6.5	5.6
S 7+25			6.7	5.4
S 7+80			7.7	4.4
S 8+00			8.9	3.2

PX Sta 118+00

0+00 = Sta. 118+00 - 1681 00 T3/L

Sta	HI	Elev
TBM	4.50	11.90
S 7+75		8.3
S 7+25		6.5
S 6+80		6.3
S 6+25		6.2
S 5+75		6.2
S 5+20		6.1
S 4+60		5.7
S 4+15		5.6
S 3+60		5.4
S 3+10		4.9
S 2+60		4.8
S 2+10		4.5
S 1+60		4.6
S 1+05		4.9
S 0+55		4.8
N 0+50		4.7
N 1+00		4.7
N 1+50		4.6
N 2+05		4.3

Sta 117+00

0+00 = Sta 117+00 - 168+00 T3/L

Sta	HI	Elev
TBM	4.66	12.06
S 7+20		4.5
S 7+65		4.4
S 7+20		4.5
S 6+70		4.8
S 6+20		5.0
S 5+70		4.47
S 5+20		5.2
S 4+70		4.8
S 4+20		4.9
S 3+70		4.8
S 3+20		5.1
S 2+70		5.3
S 2+20		5.6
S 1+70		5.7
S 1+20		5.9
S 0+70		6.0
S 0+20		6.0

Hub. 30' W 119+00

PX

Hub. TP 30' W 119+00

Hub. Sta. 115+00

PX

Sta ~~116+00~~ ¹¹⁷ Cont

7-21-50

G. BARRAGAN
A. SHERRY
W. CARVER

7-21-50

(51)

Sta 116+00

PX

Sta	H ₁	-	Elev
	12.06		

Sta	H ₁	-	Elev
	12.13		

S 6+30		6.3	5.8
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S 1+80		5.1	7.0
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S 6+75		6.6	5.5
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S 1+25		4.9	7.2
--------	--	-----	-----

S 7+25		7.6	4.5
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S 1+75		4.6	7.5
--------	--	-----	-----

S 7+40		8.6	3.5
--------	--	-----	-----

S 1+30		4.9	7.2
--------	--	-----	-----

S 1+53		4.7	7.4
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Sta. 116+00

S 1+25		4.7	7.4
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Sta	H ₁	-	Elev
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S 1+25		4.6	7.5
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TBM	4.54	12.13	7.59
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S 1+10		4.5	7.6
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S 6+95		8.5	3.6
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7-25-50

S 6+40		6.6	6.5
--------	--	-----	-----

Sta 116+00 Ext.

S 5+85		6.6	5.5
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Sta	H ₁	-	Elev
-----	----------------	---	------

S 5+45		6.3	5.8
--------	--	-----	-----

TBM	4.44	12.03	7.59
-----	------	-------	------

S 4+90		6.0	6.1
--------	--	-----	-----

S 1+5		8.7	3.3
-------	--	-----	-----

S 4+45		6.1	6.0
--------	--	-----	-----

S 3+95		6.0	6.1
--------	--	-----	-----

S 3+40		5.8	6.3
--------	--	-----	-----

S 2+85		5.7	6.4
--------	--	-----	-----

S 2+30		5.6	6.5
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H₁

115+00

C. Barragan. **PX**
 H. Sherry
 H. Brewer
 W. Corver.

7-25-50

Sta 115+00 (Ext)

0+00 = Sta 115+00 W. - 168+00 N.

Sta	+	HI	-	Elev	Hub
T.B.M.	5.00	12.59		7.59	115+00
5.6+50			8.6	4.0	
5.6+65			9.0	3.6	

Sta 114+00 Ext

0+00 = 114+00 W. - 168+00 N.

Sta	+	HI	-	Elev	Hub
T.B.M.	4.92	12.51		7.59	114+00
5.5+95			8.6	3.9	
5.6+40			8.6	3.9	

Sta 113+00 Ext.

0+00 = 113+00 N. 168+00 W.

Sta	+	HI	-	Elev	Hub
T.B.M.	5.51	12.58		7.07	113+00
5.5+30			8.2	4.4	
5.5+75			8.3	4.3	
5.6+20			8.6	4.0	

7-25-50

(52)

PX, Sta 112+00

0+00 = 112+00 W. - 168+00 N.

Sta	+	HI	-	Elev	Hub
T.B.M.	3.54	10.61		7.07	Sta 167+00
5.4+55				6.1	4.5
5.4+0				6.2	4.4
5.4+30				6.2	4.4
5.7+25				7.0	3.6
5.7+90				7.0	3.6
T.B.M.				4.97	5.64

2 1/2" ON OLD B/L
 N.
 Sta 164+28

Sta 164+00

SECTION EAST & WEST

0+00 = Sta 164+00 W. - 112+00 N.

Sta	+	HI	-	Elev	Hub
T.B.M.	3.38	9.02		5.64	Sta 114+28 N.
0+00				4.4	4.6
0+70				4.3	4.7
0+70				4.6	4.4
0+20				4.3	4.7
0+00				4.1	4.9
0+60				4.0	5.0

7-25-50

7-25-50 (53)

SECTION EAST & WEST
Sta 163+00

0+60 Sta. 163+00 N. 112+00 N.

Sta	+ 171	-	Elev	Hub
T.B.M.	2,661	8.25	5.64	Hub
E 3+85		3.5	4.7	
E 3+30		3.6	4.6	
E 2+80		3.5	4.7	
E 2+20		3.6	4.6	
E 1+65		3.5	4.7	
E 1+10		3.7	4.6	
E 0+55		3.7	4.6	
0+00		4.0	4.2	

Proposed Diversion Drainage Ditch Bay Terrace

S. 34° 20' 30" E = 6'

R.C. PI. OF CONC. DITCH (SEE PAGE 43)

Sta	+ 171	-	ELEV	Notes
			5.55	14.83
			5.0	9.8
			5.00	9.8
			5.10	9.7
			5.25	9.58
			5.82	9.01
			5.8	9.0
			6.0	8.8
			6.0	8.8
			6.3	8.5
			7.8	7.0
			7.9	6.9
			8.2	6.6

East End of
Conc. Ditch.N. Edge of
Reed Ave.So. Edge
of Reed Ave.

Parking Lot.

So. Edge of
Parking Lot.

K @ P. I. OF CONC DITCH (SEE PAGE 43)

7-25-5

7-25-5

(54)

Proposed Diversion Drainage Ditch Bay Terrace
S. 6°19'30" W

Sta 1 H1 - Elev

Cor. Con

Ditch

TBM 14.83 9.28

S. 0+42 5.4 9.4

S. 0+95 5.5 9.3

No. of

Access

S. 1+25 5.5 9.2

So. Elev

of Pipe

S. 1+72 5.65 9.18

S. 2+32 5.7 9.1

S. 2+81 5.7 9.1

S. 3+32 7.4 7.4

LINE OF EXISTING DIRT DITCH

S. 3+56 6.5 8.3

S. 4+15 6.5 8.3

S. 4+45 7.8 7.0

S. 4+96 7.7 7.1

S. 5+45 7.5 7.3

S. 6+00 7.9 6.9

S. 6+40 7.9 6.9

S. 7+00 7.9 6.9

LOCATION OF 12, 10, & 9 FOOT CONTOURS AT

WEST CORNER OF BAYVIEW TERRACE ^{4.88}

π @ STA ^(N-171+00) (W-127+00) H.I. = 13.03

OBJECT AZIM DIST ROD ELEV

T.B.M. ⁺ 4.88

^{Dist} 9.15 ^{Hus} 12.15

197° 10' 94 1.03 12

191° 50' 080 3.03 10

234° 06' 54 1.03 12

✓ 233° 45' 40 3.03 10

275° 05' 103 1.03 12

✓ 274° 45' 63 3.03 10

275° 20' 133 3.03 12

✓ 286° 10' 123 3.03 10

282° 45' 184 1.03 12

✓ 294° 20' 175 3.03 10

293° 20' 230 1.03 12

✓ 311° 05' 185 3.03 10

✓ 323° 20' 190 3.03 10

✓ 341° 00' 180 3.03 10

312° 45' 242 1.03 12

BARRAGAN 7-25-50

55

H.I. = 13.03

AZIM DIST ROD ELEV

✓ 358° 20' 178 3.03 10

338° 25' 234 1.03 12

✓ 16° 20' 190 3.03 10

✓ 27° 45' 196 3.03 10

358° 35' 496 1.03 12

✓ 41° 15' 167 3.03 10

✓ 61° 45' 163 3.03 10

✓ 68° 30' 160 3.03 10

✓ 69° 15' 198 3.03 10

✓ 67° 15' 221 3.03 10

✓ 68° 20' 276 3.03 10

✓ 64° 25' 316 3.03 10

✓ 67° 25' 356 3.03 10

260° 55' 38 4.03 9

292° 05' 128 4.03 9

✓ 318° 30' 169 4.03 9

✓ 358° 45' 164 4.03 9

28° 25' 170 4.03 9

LOCATION OF CONTOURS

150
190
250

7-25-50

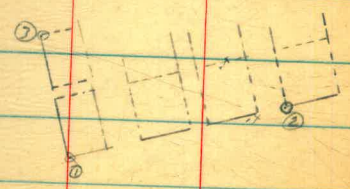
56

HI 13.03

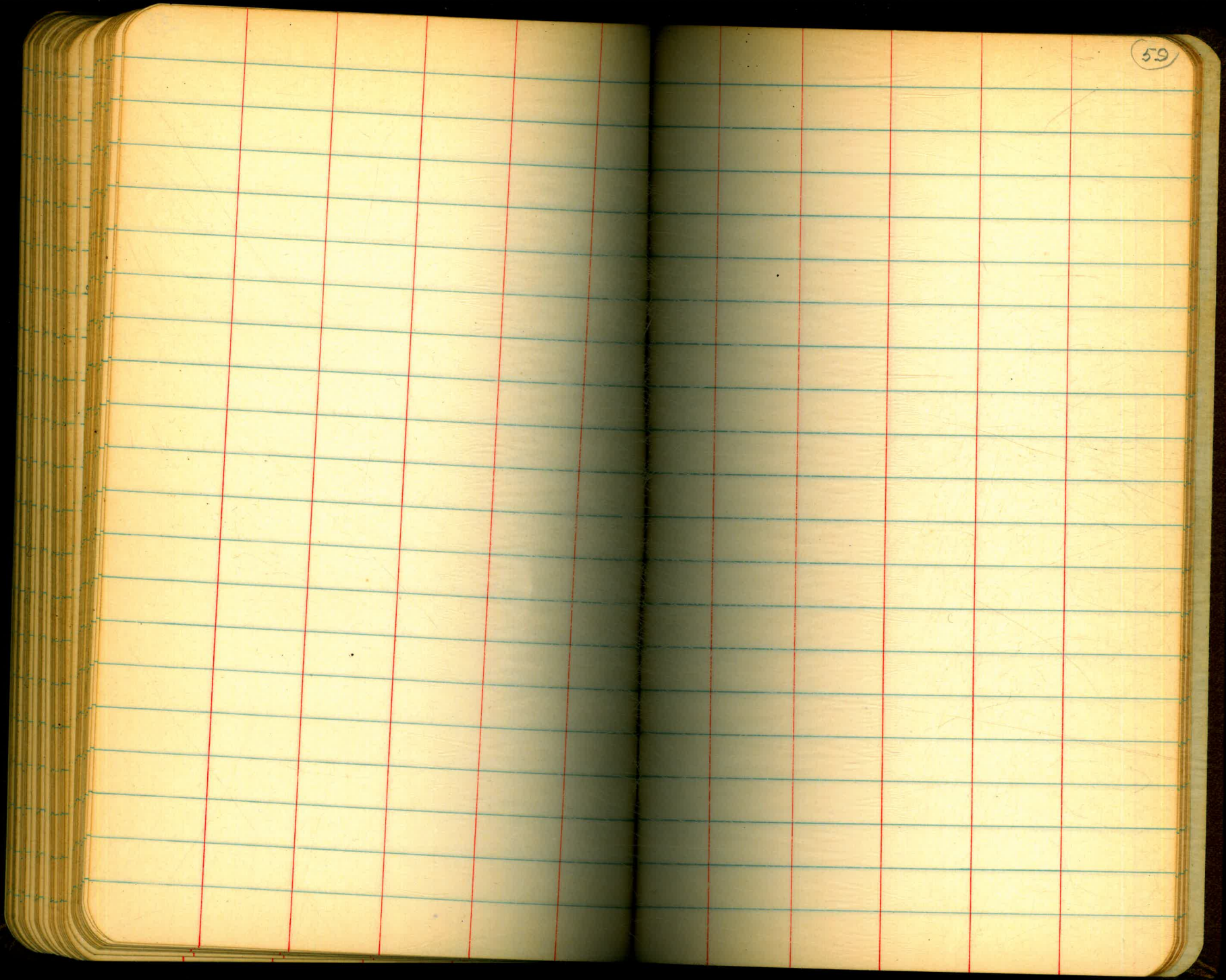
	Azimuth	Dist	Red	Elev
	66° 20'	153	4.03	9
	72° 10'	209	4.03	9
	72° 45'	290	4.03	9
	67° 30'	298	4.03	9
	73° 10'	303	4.03	9
	72° 45'	377	4.03	9
	73° 40'	436	4.03	9
S.W. cor ①	House	5.7° 00'	167	2.60 10.4
S.W. Cor ②	4th House	67° 45'	396	2.57 10.4
N.W. cor.	House ③	26° 00'	246	

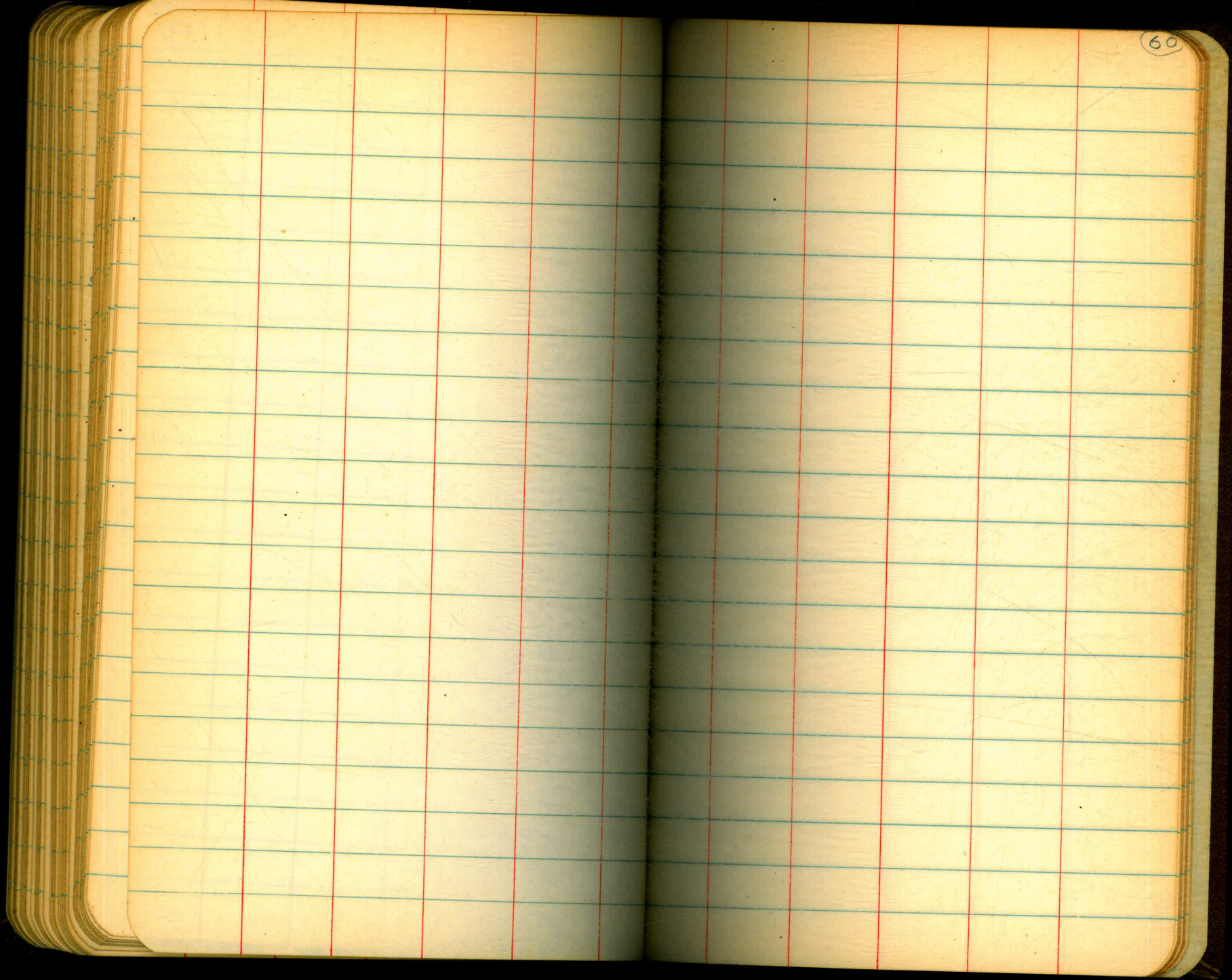


(245 x 57') BLDG S.

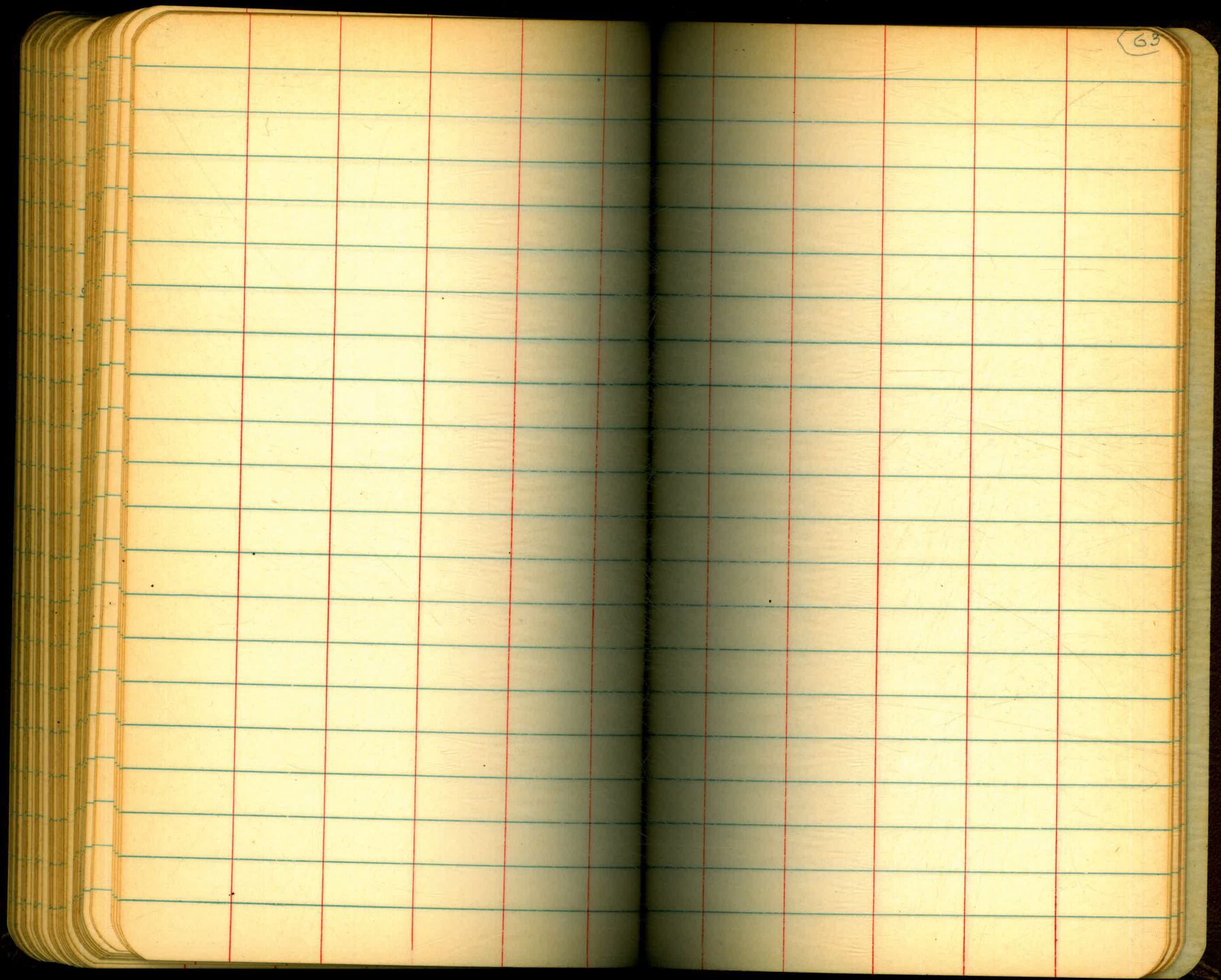


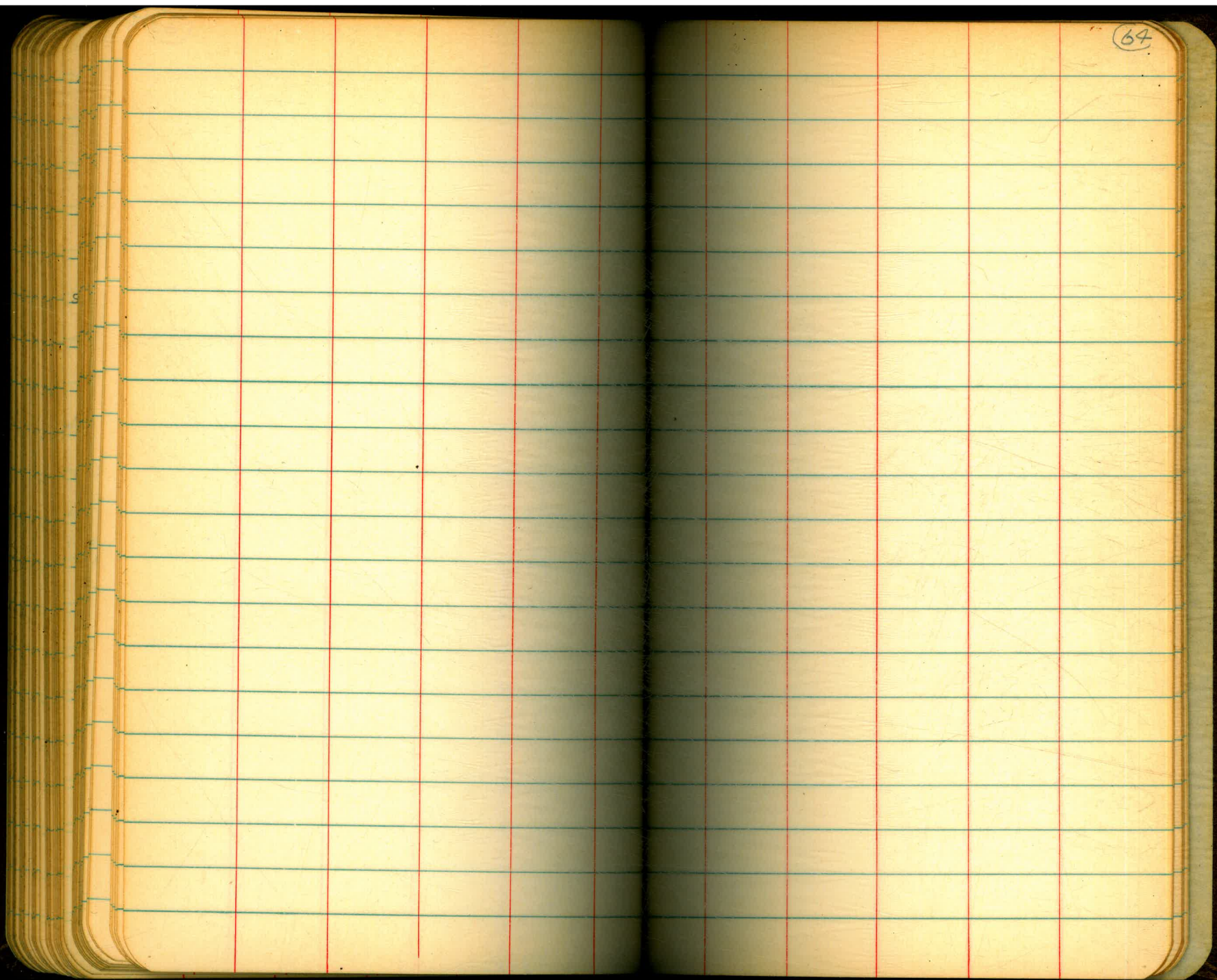
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page has two vertical red lines that create a central column and two outer margins. The pages are otherwise blank, with no handwriting or printed text. The number '58' is written in the top right corner of the right page. The notebook's binding is visible in the center, and the edges of many pages are visible on the left side.





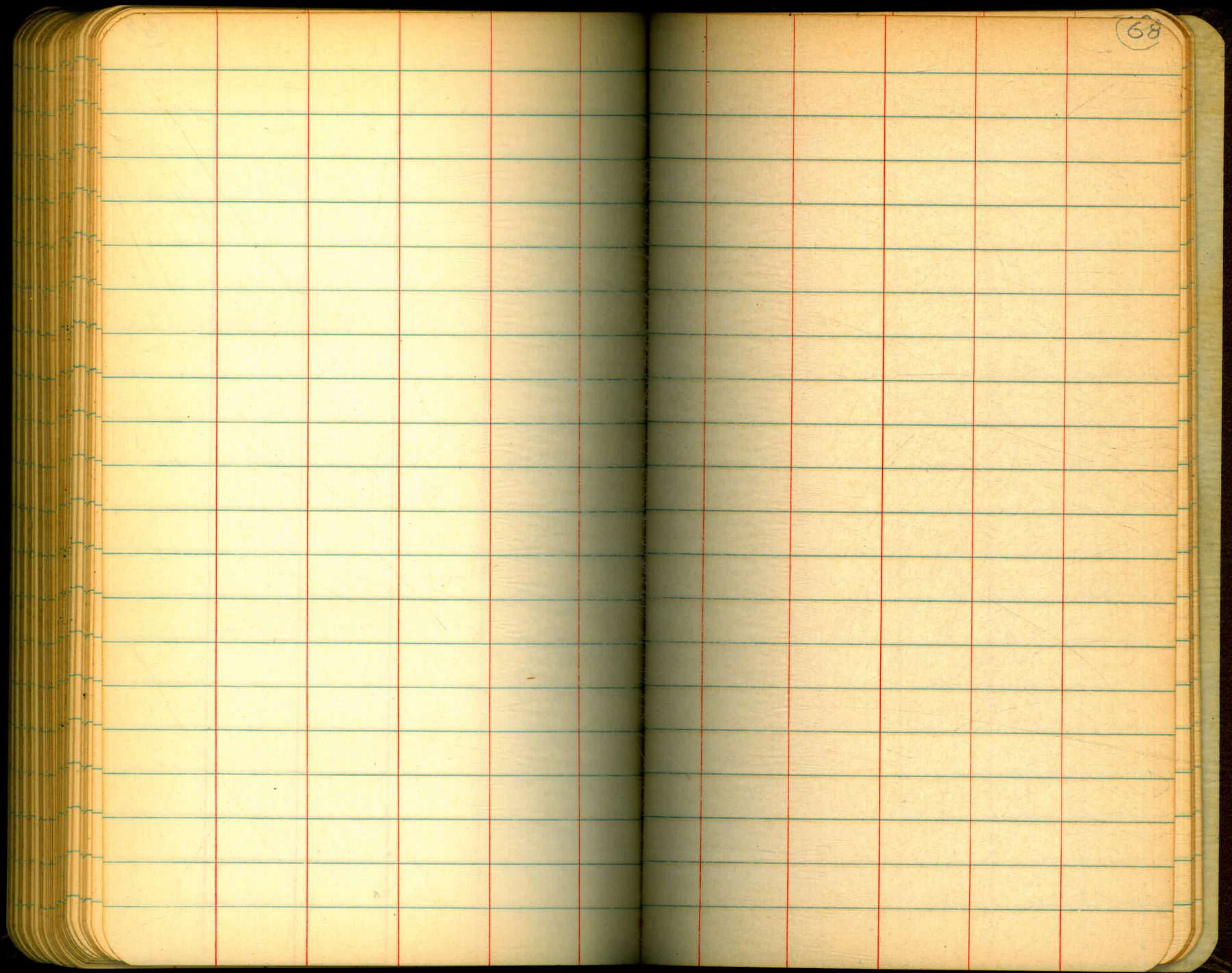
The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Each page is divided into columns by two vertical red lines, creating a grid-like structure. The notebook has rounded corners and a dark cover is visible around the edges. The pages are blank, with no writing or markings other than the page number '62' in the top right corner of the right page.





64

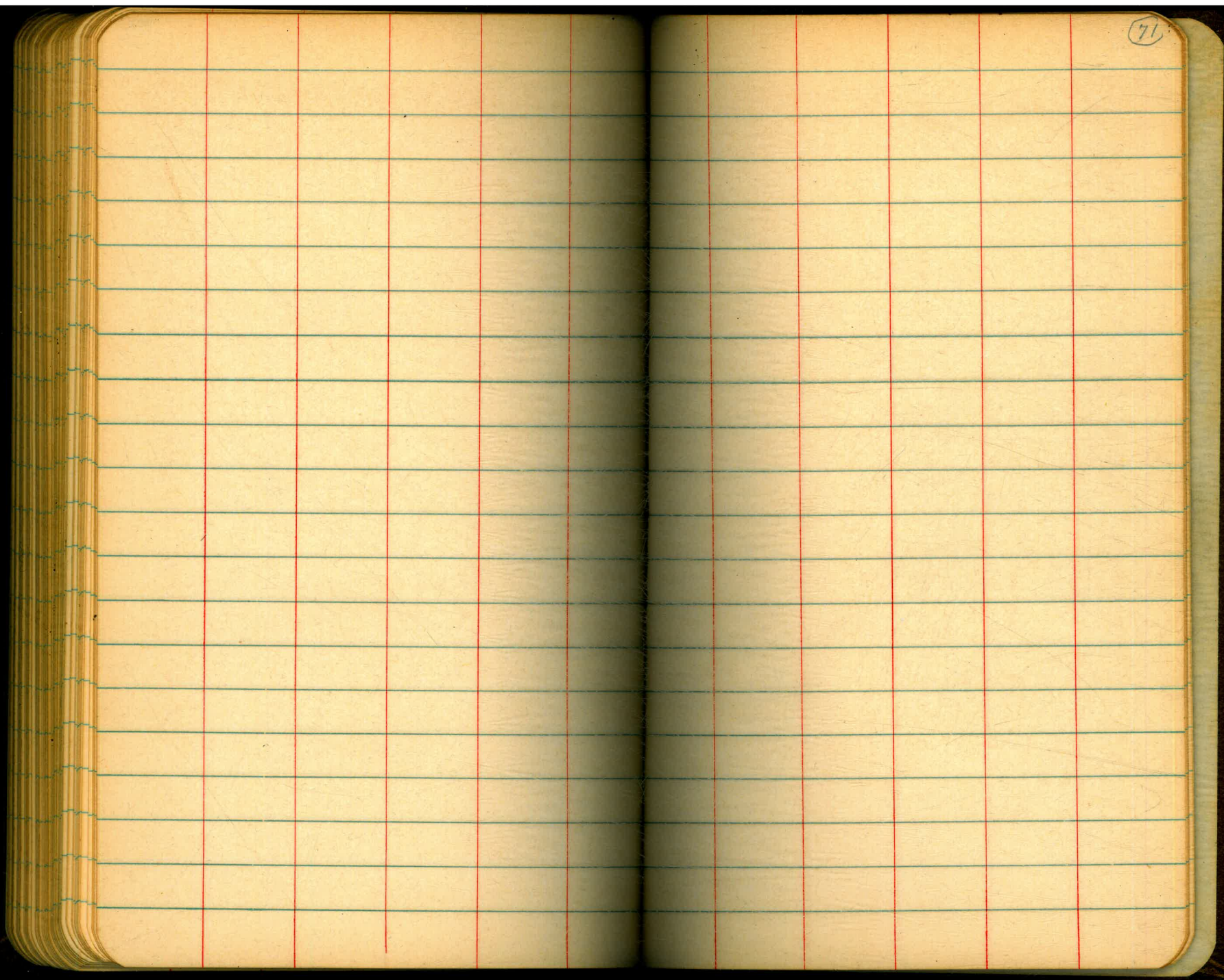
The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Each page has two vertical red margin lines, one on each side of the central gutter. The right page has the number '65' written in the top right corner. The notebook is bound in the center, and the edges of multiple pages are visible on the left side.



68

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page has two vertical red lines that create a central column and two outer margins. The pages are otherwise blank, with the only handwritten text being the number '69' in the top right corner of the right page. The notebook's binding is visible in the center, and the left edge shows the stacked pages of the book.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal lines for writing. Each page is also ruled with two vertical red lines, one on each side of the central gutter, creating a margin. The pages are otherwise blank. In the top right corner of the right-hand page, the number '40' is handwritten in a small, dark ink. The notebook's binding is visible in the center, and the edges of the pages are slightly rounded.



67° 23' 134530

6722 45
13445.30

N 83° 57' 30" W

630.2'

N 76° 20' 30" W
395'

300

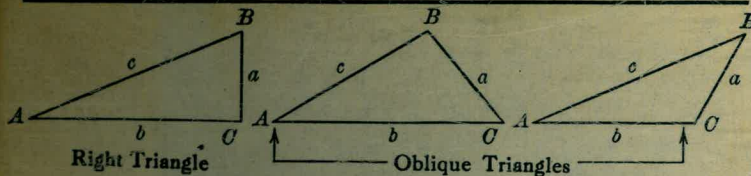
8.15

4.88

13.03

5.55

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. 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. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = 302.6 - $\frac{14 \times 14}{2 \times 302.6}$ = 302.6 - 0.32 = 302.28 ft.

