

HIGH WATER LINE

OTAY VALLEY

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MINING  
TRANSIT BOOK

363

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W83

# KEUFFEL & ESSER CO.

DRAWING MATERIALS  
AND  
SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO.

SAN FRANCISCO.

ST. LOUIS.

## TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.  
FOR SINGLE TRACK EXCAVATION.

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

Plotted 3/6 RN

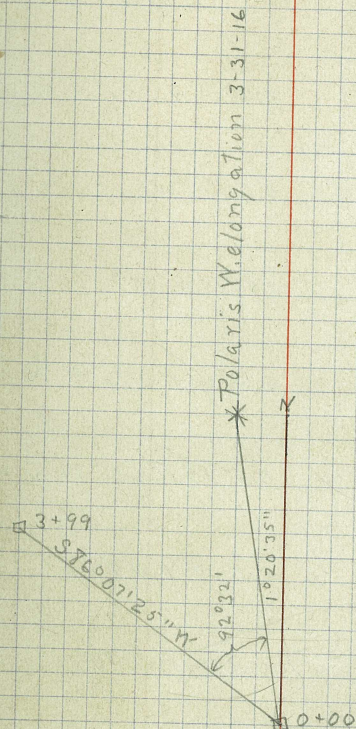
Meander line to determine high water mark on the Otay River from the N.E. Line of the Otay Grant to Tide Water.

C.I.E

Sta.	Δ R.	Δ L.	Mag.	
19+78.7	36° 30'		N. 80° 00' W.	N. 69° 46' W. ✓
18+98.4		92° 49'	S. 63° 15' W.	S. 78° 46' W. ✓
17+71.6	27° 25'		N. 24° 00' W.	N. 5° 04' W. ✓
14+39.8	21° 38'		N. 50° 15' W.	N. 32° 29' W. ✓ X
12+32.2	24° 59'		N. 72° 30' W.	N. 57° 28' W. ✓
7+69.7	17° 12'		S. 82° 15' W.	N. 82° 37' W. ✓
6+37.4	3° 18'		S. 64° 45' W.	S. 80° 31' W. ✓
3+99.8	26° 56'		S. 61° 30' W.	S. 77° 03' W. ✓
2+10.9		124° 11'	S. 37° 00' W.	S. 50° 07' W. ✓
0+91.7	93° 09'		N. 18° 30' W.	N. 5° 42' W. ✓
0+00	100° 24'		S. 67° 24' W.	S. 81° 02' W. ✓

Feb. 25<sup>th</sup> 1916.

Crowell  
Bellamy  
Carroll  
Mansfield



S. 33° 00' E  
N.E. Line of Otay Grant

Sta.	A.R.	A.L.	Mag.	C.C.
42+33 <sup>2</sup> 220.0 ✓		25° 25'	S. 47° 00' W.	S. 45° 42' W. ✓ 62.19
40+13 <sup>2</sup> 800 ✓	21° 49'		S. 72° 20' W.	N. 88° 53' W. ✓ 587.44 W.
39+33 <sup>2</sup> 110.3 ✓	24° 30'		S. 50° 35' W.	S. 49° 18' W. ✓ 65.55 ✓
38+22 <sup>4</sup> 242.0 ✓	37° 52'		S. 26° 05' W.	S. 44° 48' W. ✓ 41.25 ✓
35+80 <sup>4</sup> 229.6 ✓	19° 16'		S. 64° 00' W.	S. 83° 40' W. ✓ 99.17 ✓
33+50 <sup>8</sup> 48.3 ✓	16° 26'		S. 83° 15' W.	N. 78° 04' W. ✓ 81.27 ✓
33+02 203.1 ✓	49° 58'		S. 66° 45' W.	S. 80° 30' W. ✓ 32.07 ✓
30+49 269.8 ✓	152° 13'		S. 17° 00' W.	S. 30° 32' W. ✓ 32.09 ✓
27+79 <sup>2</sup> 80.6 ✓	33° 50'		N. 11° 00' W.	N. 7° 45' E. ✓ 14.22 ✓
26+98 <sup>6</sup> 90.1 ✓	25° 00'		N. 44° 45' W.	N. 36° 00' W. ✓ 29.25 ✓
26+08 <sup>5</sup> 454.9 ✓	33° 21'		N. 69° 45' W.	N. 57° 05' W. ✓ 54.28 ✓
21+53 <sup>8</sup> 175.1 ✓	23° 03'		S. 76° 45' W.	N. 84° 26' W. ✓ 87.49 ✓ N. 61° 23' W.
19+78.7				

Sta.	$\Delta R.$	$\Delta L$	Mag.
68+16 <sup>3</sup>	15° 50'		S. 28° 30' W. S. 46° 51' W. ✓ 13.33
445.0 ✓			
63+21 <sup>3</sup>		44° 21'	S. 12° 45' W. S. 31° 01' W. ✓ 27-43
199.6 ✓			
61+71 <sup>7</sup>	39° 51'		S. 56° 50' W. <del>S. 75° 23' W</del> ✓ 12.04
308.8 ✓			
58+62 <sup>9</sup>		101° 33'	S. 17° 05' W. <del>S. 35° 31' W</del> ✓ 32-13
273.1 ✓			
55+89 <sup>8</sup>		32° 58'	N. 61° 20' W. N. 43° 51' W. ✓ 116.14
128.8			
54+61	28° 50'		N. 28° 30' W. N. 9° 53' W. - 13.16
166.5 ✓			
52+94 <sup>5</sup>	29° 04'		N. 57° 20' W. N. 38° 43' W. - 42.06
190.7 ✓			
51+03 <sup>8</sup>	23° 35'		N. 86° 30' W. N. 67° 47' W. - 71.10 ✓
172.3 ✓			
49+31 <sup>5</sup>	17° 51'		S. 70° 00' W. S. 88° 38' W. 85-15 ✓
126.6 ✓			
48+04 <sup>9</sup>	42° 48'		S. 52° 00' W. S. 70° 47' W. - 67-24 ✓
106.6 ✓			
46+98 <sup>3</sup>		122° 38'	S. 9° 30' W. S. 37° 19' W. ✓ 24-36
154.5 ✓			
45+43 <sup>8</sup>	84° 55'		N. 48° 00' W. N. 29° 23' W. ✓ 32-46
316.6 ✓			S. 65° 42' W
42+33.2			

← 59+40 Salt Cañon Creek.

Sta.	$\Delta R.$	$\Delta L.$	Mag.
104+52 <sup>6</sup> 161.0 ✓		93° 23'	S. 19° 15' W. S. 37° 14' W. ✓ 33-56
102+85 <sup>6</sup> 102.1 ✓	99° 19'		N. 67° 45' W. N. 49° 23' W. ✓ 52-41
101+82 <sup>9</sup> 366.6 ✓		64° 41'	S. 13° 15' W. S. 31° 18' W. ✓ 28-00
98+15 <sup>8</sup> 461.9 ✓	23° 32'		S. 78° 00' W. N. 84° 01' W. ✓ 87-19
93+53 <sup>4</sup> 117.6 ✓	35° 26'		S. 54° 15' W. S. 72° 27' W. ✓ 69-09
89+35 <sup>8</sup> 326.2 ✓	20° 38'		S. 19° 00' W. S. 37° 01' W. ✓ 38-43
85+99 <sup>6</sup> 224.1 ✓	7° 27'		S. 39° 30' W. S. 57° 39' W. ✓ 54-21
82+77 315.8 ✓	24° 48'		S. 47° 00' W. S. 65° 06' W. ✓ 61-49
79+61 <sup>2</sup> 124.0 ✓	21° 13'		S. 22° 00' W. S. 40° 18' W. ✓ 37-80
78+37 <sup>2</sup> 511.8 ✓		56° 43'	S. 0° 50' W. S. 19° 00' W. ✓ 15-47
73+25 <sup>4</sup> 149.8 ✓	11° 46'		S. 57° 30' W. S. 75° 48' W. ✓ 92-30
71+75 <sup>9</sup> 358.6 ✓ 68416.3	17° 11'		S. 45° 45' W. S. 44° 03' W. ✓ 60-44 S. 46° 51' W.

S. 30° 30' E.  
 X X X X  
 80+09  
 17.00  
 13.07 S. side 14 on N. side  
 3" x 3" Post marked

Sta.	$\Delta R.$	$\Delta L.$	Mag.
125+747 199.2 ✓	12° 52'		N. 73° 00' W. N. 55° 13' W ✓ 58-31
123+95 <sup>5</sup> 288.3 ✓	32° 33'		N. 85° 55' W. N. 68° 05' W ✓ 71-23
121+07 <sup>2</sup> 131.5 ✓	15° 28'		S. 61° 30' W. S. 79° 22' W ✓ 76-04
119+75 <sup>9</sup> 101.8 ✓	99° 27'		S. 46° 00' W. S. 63° 52' W ✓ 60-36
118+74 <sup>1</sup> 168.2 ✓	44° 38'		S. 33° 20' E. S. 35° 33' E ✓ 38-51
117+05 <sup>9</sup> 133.2 ✓	157° 16'		S. 8° 50' E. S. 9° 05' W ✓ 5-47
115+72 <sup>7</sup> 133.9 ✓	46° 24'		N. 31° 35' W. N. 13° 39' W ✓ 16-57
114+38 <sup>8</sup> 94.2 ✓	67° 24'		N. 78° 00' W. N. 60° 03' W ✓ 63-21
113+44 <sup>6</sup> 199.2 ✓	22° 16'		S. 34° 35' W. S. 57° 33' W ✓ 47-15
111+45 <sup>4</sup> 332.9 ✓	43° 10'		S. 12° 25' W. S. 30° 17' W ✓ 26-59
108+12 <sup>7</sup> 87.5 ✓	20° 44'		S. 55° 25' W. S. 73° 27' W ✓ 70-09
107+25 <sup>2</sup> 272.6 ✓	15° 29'		S. 34° 40' W. S. 57° 43' W ✓ 42-25
104+52.6			

Sta.	A R.	A L.	Mag.
147+88 <sup>4</sup> 316.7 ✓		35° 38'	S.59°35'W. S.77°15'W 73°57'
144+71 <sup>7</sup> 373.4 ✓	39° 17'		N.84°45'W. N.67°07'W 70°25'
140+98 <sup>3</sup> 97.9 ✓	62° 29'		S.56°05'W. S.73°36'W 70°18'
140+106 111.7 ✓		103° 02'	S.6°15'E. S.11°07'W 7°49'
138+98 <sup>9</sup> 75.9 ✓	49° 38'		N.83°30'W. N.65°51'W 69°09'
138+23 <sup>2</sup> 128.4 ✓		34° 53'	S.47°00'W S.62°31'W 61°13'
136+94 <sup>8</sup> 70.9 ✓	32° 24'		S.81°50'W. N.80°36'W 83°54'
136+24 <sup>1</sup> 129.3 ✓	32° 42'		S.49°25'W. S.67°00'W 63°42'
134+94 <sup>8</sup> 283.4 ✓		10° 12'	S.16°40'W. S.34°18'W 31°00'
132+11 <sup>4</sup> 240.2 ✓	14° 36'		S.26°50'W. S.44°30'W 41-12
129+71 <sup>1</sup> 172.5 ✓		36° 54'	S.12°15'W. S.79°54'W 26-36
127+98 <sup>6</sup> 223.9 ✓		57° 59'	S.49°00'W. S.66°48'W 63-30 N.55°13'W
125+74.7			

133+90



Sta.	A.R.	Δ L.	Mag.
171+12 <sup>6</sup> 961 ✓	125° 03'		N. 21° 10' W. N. 2° 30' W 5° 48'
170+16 <sup>5</sup> 203.3 ✓	12° 09'		S. 34° 00' W. S. 57° 27' W ✓ 49° 09'
168+13 <sup>2</sup> 813 ✓	13° 40'		S. 46° 10' W. S. 64° 36' W ✓ 61° 18'
167+31 <sup>9</sup> 311.6 ✓	7° 05'		S. 32° 35' W. S. 50° 56' W ✓ 47° 38'
164+20 <sup>3</sup> 306.8 ✓	16° 45'		S. 39° 45' W. S. 58° 01' W ✓ 54° 43'
161+19 <sup>5</sup> 1095 ✓	9° 20'		S. 20° 10' W. S. 41° 16' W ✓ 37° 58'
160+11 <sup>2</sup> 163.3 ✓	71° 06'		S. 32° 40' W. S. 50° 36' W ✓ 47° 18'
158+47 <sup>9</sup> 136.3 ✓	130° 11'		S. 38° 15' E. S. 20° 30' E ✓ 29° 48'
157+10 <sup>6</sup> 121.4 ✓	19° 53'		N. 88° 15' W. N. 70° 19' W ✓ 73° 37'
155+89 <sup>2</sup> 327.3 ✓	52° 49'		S. 72° 00' W. S. 89° 48' W ✓ 86° 30'
152+51 <sup>9</sup> 164.7 ✓	24° 15'		S. 19° 20' W. S. 36° 59' W ✓ 33° 41'
150+87 <sup>2</sup> 298.8 ✓	16° 01'		S. 43° 35' W. S. 41° 14' W ✓ 57° 56'
147+88.7			S. 77° 15' W ✓

Sta.	$\Delta R.$	$\Delta L.$	Mag.
190+50 <sup>9</sup> 1116 ✓	67° 43'		N. 39° 10' W. N 21° 02' W ✓ 24° 20'
189+39 <sup>3</sup> 930 ✓	37° 00'		N 89° 45' W S. 73° 10' W S 65° 05' W S 87° 57' W
188+46 <sup>3</sup> 1194 ✓	48° 50'		S. 36° 05' W S 29° 05' W S 54° 15' W S 54° 15' W S 50° 57' W
187+26 <sup>9</sup> 1940 ✓	61° 20'		S. 54° 50' W N 76° 55' W ✓ 80° 13'
185+32 <sup>9</sup> 421. W	32° 11'		S. 23° 35' W S 41° 45' W ✓ 38° 27'
181+11 <sup>8</sup> 2575 ✓	58° 46'		S. 55° 30' W S 73° 56' W ✓ 70° 38'
178+54 <sup>3</sup> 909 ✓	38° 02'		N. 65° 50' W N 47° 18' W ✓ 50° 36'
177+63 <sup>4</sup> 1453 ✓	32° 09'		S. 76° 10' W N 85° 20' W ✓ 88° 38'
176+18 <sup>1</sup> 1655 ✓	47° 00'		N. 71° 50' W N 53° 11' W ✓ 56° 29'
174+52 <sup>6</sup> 1785 ✓	50° 16'		S. 61° 20' W S 79° 49' W ✓ 76° 31'
172+74 <sup>1</sup> 1539 ✓	162° 29'		S. 11° 10' W S 29° 33' W ✓ 26° 15'
171+20 <sup>2</sup> 076 ✓	14° 32'		N. 6° 30' W N 12° 03' E ✓ 8° 47'
171+12.6			N 7° 30' W ✓

Sta.	$\Delta R$	$\Delta L$	Mag.
208+59 <sup>1</sup> 338.9 ✓		12° 52'	S. 48° 45' W. S. 67° 08' W ✓ 69° 50'
205+20 <sup>2</sup> 90.9 ✓		8° 45'	S. 61° 45' W. S. 80° 0' W ✓ 76° 42'
204+29 <sup>9</sup> 132.9 ✓	14° 10'		S. 70° 25' W. S. 88° 45' W ✓ 85° 27'
202+97 239.8 ✓		15° 39'	S. 56° 20' W. S. 74° 35' W ✓ 71° 17'
200+57 <sup>2</sup> 99.8 ✓	13° 57'		S. 72° 00' W. N. 89° 46' W ✓ 586° 58' W
199+63 <sup>4</sup> 204.4 ✓	32° 32'		S. 58° 00' W. S. 76° 19' W ✓ 72° 59'
197+59 147.4 ✓	19° 54'		S. 25° 30' W. S. 43° 45' W ✓ 40° 27'
196+11 <sup>6</sup> 141.6 ✓	139° 02'		S. 5° 30' W. S. 23° 51' W ✓ 20 33
194+70 44.5 ✓	41° 32'		N. 35° 30' W. N. 17° 07' W ✓ 20° 25'
194+25 <sup>5</sup> 80.0 ✓	39° 26'		N. 77° 00' W. N. 58° 39' W ✓ 61° 57'
193+45 <sup>5</sup> 154.5 ✓	34° 41'		S. 63° 45' W. S. 81° 55' W ✓ 78° 37'
191+90 <sup>7</sup> 137.8 ✓	111° 44'		S. 29° 00' W. S. 47° 14' W ✓ 43° 56'
190+50.9			N. 21° 02' W

5280  
51720

196+00

192+08

stadia Measurements

Huston  
Crown  
Sawyer  
Sawyer  
Went  
Carpenter

sta.	Δ R.	Δ L.	Mag.
#2 475.00	45° 26'		N4°05'E ✓ 0°47'
#1 310.0'	45° 27'		N4°06'E ✓ N0°48'E
249+20' 446.0'	40° 37'		N.59°55'W, N41°21'W ✓ 44°39'
244+74' 794.0'		7° 16'	S.79°45'W, N81°58'W, N85°16'W
#1 539.0'	5° 02'		N69°40'W 72°58'
236+80' ✓ 767.0'		0.13'	S.87°10'W, N74°42'W ✓ 79°0'
229+13' 532.0'	22° 51'		S.87°25'W, N74°29'W ✓ 77°47'
#1 174.0'	11° 26'		N85°54'W ✓ N89°12'W
225+81' 537.0'	3° 25'		S.64°30'W, S82°40'W ✓ 79°22'
#2 327.0'	15° 35'		N85°10'W ✓ N88°28'W
#1 201.00	12° 40'		N88°05'W ✓ S88°39'W
220+44' 409.0'	2° 42'		S.61°00'W, S79°15'W ✓ 75°57'
212+47' 388.0'	14° 49'		S.63°40'W, S81°57'W ✓ 78°39'
208459.1			

center Coronado Pipe Line

Sta.	Δ R.	Δ L.	Mag.
300+60 #1 938.0 140.0	3° 25'		N 81° 09' W N 84° 27' W
291+22 900.0	21° 48'	5.76 55' W	N 84° 34' W N 87° 52' W
282+22 #1 112.0 500.0	2° 49'		N 81° 15' W N 62° 46' W N 66° 04' W
271+10 1836.0	18° 12'		N 84° 15' W N 65° 35' W N 68° 53' W
43 520.0	18° 51'		N 64° 30' W N 68° 14' W
42 570.0	14° 51'		N 72° 14' W
#1 225.0	14.51		N 68° 56' W N 68° 56' W N 72° 14'
257+74 359.0	43° 09'	5.77 40' W	N 83° 47' W 87° 05'
254+05 485.0 249+204	0° 43'		N 59° 05' W N 40° 38' W N 49° 56'

300+60  
140.0

Jap. Gardens, L.O. Reservoir Site

8-3-16.

Mudeshan,  
Shipleay,  
Marshall.

Sta. ΔR, ΔL, Mag,

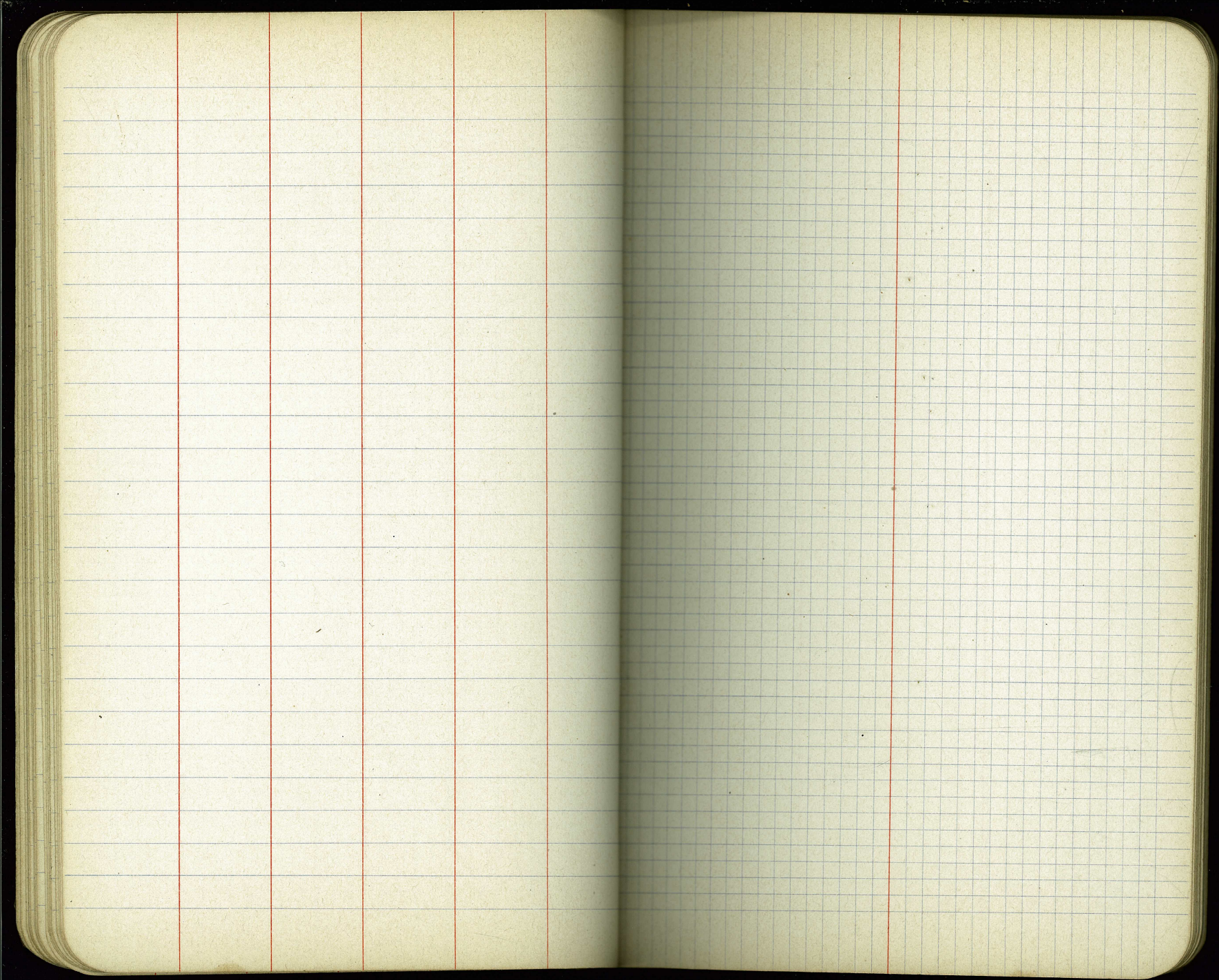
0

Sta.	ΔR	ΔL	Mag.
			N45°30'E N45°30'E
61+287=0+00	136°03'		
2167 <sup>2</sup>			S1°30'W S1°33'W
39+612	52°16'		
1000			S57°W S53°49'W
29+612	135°53'		
2021 <sup>2</sup>			N9°45'E N9°42'E
9+394	15°54'		
510 <sup>2</sup>			N25°45'E N25°46'E
4+292	19°44'		
			N45°30'E N45°30'E
0+00			

Sta. ΔR. ΔL. Mag.

Sta. ΔR. ΔL. Mag.





## DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES  $1\frac{1}{2}$  TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.