

5

1055

DEPT. OF AGRICULTURE

EXTENSION

FOR THE

WEST

1055

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

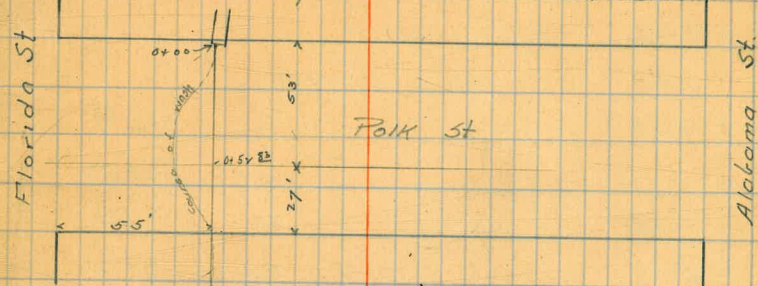
Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

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7 (Davis)
17
19

Location of Proposed Culvert on Polk St



Station	590	276.94	271.04
0+00 End 22" C. Pipe - Florida line	590		271.04
+08		58	271.1
+11		36	273.3
+38		40	272.9
+50		50	271.9
+80		59	271.0
+86		76	269.3
+100		72	269.7
+10		79	269.0

CROSS SECTION OF
POLK AVE. 80' wide 14' cbc 13 1/4'
from Georgia to Oregon.

B.M. 3.12 338.09 334.97 SE. Co. + Polk

E. L. Georgia.

So. 2.7 335.4

cb. 3.11 334.98 on cement

+4 3.7 34.4

1/2 3.5 34.6

c 3.3 34.8

1/2 3.5 34.6

cb. 3.3 34.8

No. 2.6 35.5

3' East

No. 2.3 35.8

+12 2.4 35.7

cb. 3.2 34.9

1/2 3.6 34.6

c 3.5 34.6

1/2 3.6 34.5

+9 3.6 34.5

cb. 3.3 34.8

So. 2.9 35.2

7' East

So. 3.9 34.2

+7 3.7 34.4

cb. 3.4 34.7

1/2 3.8 334.3

33809

POLK 2

a 3.9 334.2

1/4 3.7 34.4

cb. 3.5 34.6

No. 3.2 34.9

13' E

No. 3.7 34.4

cb. 3.9 34.2

1/4 4.2 33.9

c 4.9 33.2

1/2 3.9 34.2

+7 3.8 34.3

cb. 4.6 33.5

So. 5.0 33.1

25' E

So. 7.3 30.8

cb. 7.3 30.8

1/2 6.6 31.5

c 7.2 30.9

1/4 6.5 31.6

cb. 6.3 31.8

No. 6.1 32.0

55' E

No. 11.3 26.8

cb. 11.3 26.8

+9 11.9 26.2

1/2 13.2 324.9

338.09

a			13.2	324.9
+8			13.2	324.9
T.P.	0.42	325.42	13.09	325.00
1/4			1.2	324.2
cb			1.4	24.0
So.			1.7	23.7

68' E

So.			4.8	20.6
cb			4.1	21.3
1/4			3.7	21.7
c			3.1	22.3
1/4			3.4	22.0
+4			2.5	22.9
cb			2.4	23.0
No.			2.5	22.9

89' E

No.			7.2	18.2
cb			6.9	18.5
1/4			8.2	17.2
c			7.7	17.7
1/4			8.6	16.8
cb			8.5	16.9
So.			9.0	16.4

92' E

So.			9.7	15.7
cb			9.7	315.7

325.42

1/4			9.2	316.2
c			8.4	317.0
1/4			9.0	16.4
cb			9.2	16.2
No.			9.2	16.2

129' E

T.P.	0.02	312.33	13.11	312.31
No.			1.0	11.3
cb			0.9	11.4
+7			1.1	11.2
1/4			2.6	9.7
c			2.5	9.8
1/4			3.0	9.3
+2			3.5	8.8
cb			3.4	8.9
So.			3.9	8.4

136' E

So.			5.2	7.1
cb			5.1	7.2
1/4			4.6	7.7
+2			4.1	8.2
c			3.9	8.4
1/4			4.1	8.2
+7			3.7	8.6
cb			4.6	7.7
+9			5.3	7.0
No.			5.0	307.3

P04A

3

312.33

142' E

No.	5.9	306.4
cb	6.6	5.7
1/4	5.8	6.5
+4	5.3	7.0
C	5.2	7.1
1/2	5.6	6.7
cb	6.4	5.9
So.	6.6	5.7

156' E

So.	8.6	3.7
cb	7.7	4.6
1/4	8.3	4.0
C	7.7	4.6
1/2	7.9	4.4
cb	7.4	4.9
No.	7.4	304.9

180' E

No.	10.5	301.8
cb	10.9	301.4
1/4	12.0	300.3
C	12.2	300.1
1/2	12.9	299.4
cb	13.3	299.0
So.	13.3	299.0
T.P.	0.22	299.54
	13.01	299.32

299.54

P.L.K.

4

205' E

So.	5.0	294.5
cb	4.4	95.1
1/4	4.2	95.3
C	3.7	95.8
1/2	3.7	95.8
+7	2.8	96.7
cb	2.4	97.1
No.	1.8	97.7

237' E

No.	7.6	91.9
cb	7.9	91.6
1/4	9.0	90.5
C	8.5	90.7
1/2	9.7	89.8
cb	9.9	89.6
So.	9.9	89.6

T.P.	132	288.15	12.71	286.83
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270' E

So.	4.1	84.1
cb	4.2	84.0
1/4	3.8	84.4
C	3.6	84.6
+3	3.2	85.0
1/2	2.9	85.3
cb	1.9	286.3

No.	288.15	1.4	286.8
	296' E		
No.		5.3	82.9
cb		6.0	82.2
+9		6.4	81.8
1/4		7.9	80.3
c		7.8	80.4
+8		8.5	79.7
1/4		8.5	79.7
+7		7.4	80.8
cb		7.6	80.7
So.		8.1	80.1
	304' E		
So.		10.1	78.1
cb		9.7	78.5
1/4		10.3	77.9
c		9.1	79.1
1/4		9.3	78.9
+5		9.6	78.7
cb		8.3	79.9
+6		7.8	80.4
No.		8.0	80.2
	310' E. = W. L. Florida St (Graded)		
No.		9.0	79.2
cb		9.4	78.8
+4		10.8	77.4

1/4			10.2	278.0
c			10.1	78.1
1/4			11.0	77.2
cb			11.0	77.2
So.			11.1	77.1
T.P.	2.01	280.24	9.92	278.23
				Top H/d SE Flor.
		E. L. Florida St.		
So.			4.4	75.8
cb			4.6	75.6
1/4			4.5	75.7
c			4.0	76.2
1/4			3.8	76.4
+11			4.1	76.1
cb			3.4	76.8
No.			3.1	77.1
				4' E
No.			4.7	75.5
cb			3.9	76.3
+22			4.3	75.9
1/4			3.8	76.4
c			4.1	76.1
1/4			4.7	75.5
cb			4.9	75.3
+6			6.1	74.1
So.			5.8	274.4

280.24

8' E

So.	7.8	272.4
+10	7.2	73.0
dr	5.6	74.6
1/4	5.3	74.9
C	4.3	75.9
1/4	3.2	77.0
dr	5.4	74.8
No.	5.6	74.6

20' E

No.	6.3	73.9
+3	6.6	73.6
dr	6.2	74.0
+6	7.0	73.2
1/4	6.3	73.9
+3	6.3	73.9
C	7.6	72.6
1/4	7.8	72.4
dr	7.9	72.2
+6	8.8	71.4
So.	8.5	71.7

25' E

So.	9.2	71.0
dr	8.8	71.4
1/4	9.4	70.8
+10	9.5	70.7 wash

280.24

POLK

6

C	9.1	71.1
1/4	8.0	72.2
dr	6.5	73.7
+7	6.3	73.9
+11	6.9	73.3
No.	6.4	73.8

25' E

No.	6.9	73.3
dr	6.9	73.3
+4	7.3	72.9
+4.5	8.4	71.8
+9	9.6	70.6 ctr wash
1/4	9.4	70.8
C	8.9	71.3
1/4	9.7	70.5
dr	9.9	70.3 ctr wash
So.	9.5	70.7

48' E

So.	10.7	69.5 ctr wash
dr	9.3	70.9
1/4	8.8	71.4
C	8.0	72.2
1/4	7.7	72.5
+9	7.3	72.9
+9.1	8.8	71.4
1/4	9.2	71.0 ctr wash

280.24

+13	8.4	71.8	1/4
No.	7.1	73.1	C

55' E

slay line
= ctr of 22"
cement pipe
coming from the
North

No.	9.2	271.04	1/2
+9	8.9	71.3	So
+10	7.0	73.2	
cl	7.0	73.2	So
1/4	7.0	73.2	cl
C	7.4	72.8	1/4
1/4	8.5	71.7	C
cl	8.6	71.6	1/4
So	9.2	71.0	cl

58' E

So	10	71.2	
cl	8.4	71.8	No.
1/4	8.1	72.1	cl
C	7.3	71.9	1/4
1/4	6.7	73.5	C
cl	6.4	73.3	1/4
+7	4.6	73.6	cl
+7.1	8.5	71.7	So
+13	9.0	71.2	
No.	7.2	73.0	So

59' E

No.	6.9	73.3	1/4
cl	6.8	73.4	C

280.24

POLK.

7

6.7 73.5

7.3 72.9

8.0 72.2

8.4 71.8

8.8 71.4

68' E

7.3 72.9

7.7 72.5

7.5 72.7

6.6 73.6

6.3 73.9

6.5 73.7

6.4 73.8

85' E

5.6 74.6

6.0 74.2

5.9 74.3

5.9 74.3

6.0 74.2

6.3 73.9

6.6 73.6

110' E

5.1 75.1

5.1 75.1

4.8 75.4

4.4 75.9

280.24

1/4	4.5	75.7
cb	4.7	75.5
No.	4.7	75.5

120'E

No.	4.5	75.7
+12	4.2	76.0
cb	3.8	76.4
+6	3.1	77.1
1/2	3.0	77.2
+2	4.0	76.2
+3	2.8	77.4
C	3.4	76.8
1/4	4.1	76.1
+9	4.6	75.6
cb	4.3	75.9
So.	3.5	76.4

130'E

So.	3.1	77.1
cb	3.5	76.7
+6	2.3	77.9
1/4	2.7	77.5
C	2.2	78.0
+10	2.2	78.0
1/4	2.9	77.3
cb	2.7	77.5
+7	4.2	76.0

280.24

POLK 8

No.	4.1	76.7
135'E		
No.	3.8	76.4

+8	3.7	76.5
cb	2.1	78.1
+12	2.4	77.8
1/4	1.9	78.3
C	2.1	78.1
1/4	2.1	78.1
+7	1.6	78.6
cb	2.2	78.0
So.	2.8	77.4

150'E

So.	2.0	78.2
+8	0.9	79.3
cb	1.3	78.9
1/4	1.1	79.1
C	0.7	79.5
1/4	0.6	79.6
+2	0.3	79.9
+4	1.7	78.5
+9	0.4	79.8
cb	0.5	79.7
+8	2.9	77.3
No	2.3	77.9

T.P. 12.36 292.10

0.50 279.74

192.10

160' E

No.	13.4	78.7
+5	13.4	78.7
cb	11.5	80.6
+4	11.4	80.7
+8	14.7	79.4
+11	11.4	80.7
1/4	11.6	80.5
c	13.4	78.9
+9	12.2	79.9
1/4	14.2	79.9
cb	14.0	80.1
+6	11.9	80.2
+11	13.0	79.1
So	12.9	79.2

175' E

So.	12.1	80.0
+5	12.3	79.8
+10	11.0	81.1
cb	10.9	81.2
1/4	11.1	81.0
c	10.6	81.5
1/4	10.8	81.3
+2	10.5	81.6
+5	11.5	80.6
+9	10.4	81.7

on manhole

cb

+7

No.

No.

+10

cb

+3

+7

+11

1/6

c

1/4

cb

+2

+8

So

So.

+4

cb

1/4

c

+10

1/4

1/4

10.7

81.4

11.7

80.4

11.5

80.6

190' E

11.0

81.1

11.1

81.0

9.8

82.3

9.5

82.6

10.5

81.6

9.3

82.8

9.4

82.7

9.9

82.2

9.6

82.5

9.7

82.4

9.5

82.6

11.4

80.7

11.3

80.8

225' E

8.5

83.6

9.2

82.9

7.9

84.2

7.7

84.4

7.9

84.2

7.9

84.2

8.7

83.4

7.8

84.3

POLK

9

292.10

cb	8.7	83.4
+10	9.7	82.4
No	9.3	82.8
245' E		
No.	7.9	84.2
+3	8.5	83.6
+10	6.7	85.4
cb	7.1	85.0
+7	6.6	85.5
+10	7.6	84.5
1/4	6.9	85.2
+10	7.2	84.9
c	6.4	85.7
+10	6.2	85.9
1/4	5.7	86.4
cb	6.8	85.3
+9	8.2	83.9
So	7.4	84.7
260' E		
So.	6.3	85.8
+4	6.9	85.2
cb	5.0	87.1
1/4	3.9	88.2
c	4.5	87.6
1/4	4.6	87.5
+2	6.5	86.6

292.10

POLK 10

+7	56	86.5
cb	59	86.2
+6	46	85.5
No	69	85.2
290' E		
No.	52	86.9
+5	50	87.1
+7	45	87.6
cb	42	87.9
+4	42	87.9
+7	53	86.8
+11	40	88.1
1/4	39	88.2
c	35	88.6
1/4	36	88.5
cb	30	89.1
+4	29	89.2
+7	44	87.7
So.	47	87.4
300' E		
So.	31	89.0
+7	27	89.4
cb	28	89.3
1/4	32	88.7
c	34	88.9
1/4	30	89.1

292.10

303.9

11

	+2		3.1	89.0	
	+5		4.4	87.7	
	+9		3.6	88.5	
	cl		4.1	88.0	
	+10		3.2	88.9	
	+13		3.4	88.7	
	No.		4.9	87.2	
		309.5'E = W.L. ALABAMA St (GRADED)			
	No.		3.0	89.1	
	cl		3.1	89.0	
	+7		4.0	88.1	
	+10		3.5	88.6	
	1/2		3.4	88.7	
	c		3.1	89.0	
	1/4		2.9	89.2	
	+12		2.6	89.5	
	cl		2.2	89.9	
	So.		2.0	90.0	
	T.P.	10.94	303.89	+0.85	292.95
		E.L. ALABAMA			
	So.		11.4	92.5	
	cl		10.3	93.6	
	1/4		10.6	93.3	
	c		10.6	93.3	
	1/2		11.2	92.7	
	cl		10.9	93.0	

	No.	10.6	93.3
		3'E	
	No.	9.1	94.8
	cl	9.1	94.8
	1/4	9.1	94.8
	c	9.0	94.9
	1/2	8.9	95.0
	cl	9.0	94.9
	So.	9.1	94.8
		12'E	
	So.	8.8	95.1
	+8	9.2	94.7
	cl	8.5	95.4
	+6	8.1	95.8
	1/4	8.3	95.6
	str.	8.5	95.4
	1/4	8.8	95.1
	cl	8.4	95.5
	No.	8.5	95.4
		31'E	
	No.	7.3	96.6
	cl	7.8	96.1
	1/4	8.0	95.9
	c	8.0	95.9
	1/4	8.0	95.9
	cl	8.4	95.4

303.89

So	80	95.9
	60' E	
So.	6.5	97.4
cb	6.5	97.4
1/4	5.7	98.2
+4	4.9	99.0
c	5.0	98.9
1/2	5.1	98.8
cb	5.3	98.6
+10	5.9	98.0
No.	5.6	98.3
	80' E	
No.	4.2	99.7
cb	5.0	98.9
1/4	5.1	98.8
c	5.2	98.7
1/4	5.2	98.7
cb	5.7	98.2
So.	5.5	98.4
	105' E	
So.	4.1	99.8
cb	4.2	99.7
+60	4.0	99.9
1/4	4.4	99.5
c	4.6	99.3
+1	3.9	300.0

POLK 12

cb	3.7	300.2
No.	3.0	300.9
	128' E	
No.	2.5	301.4
cb	2.5	301.4
1/4	2.1	301.8
c	2.7	301.2
1/2	3.5	300.9
+4	3.7	300.2
+8	2.7	301.2
cb	2.9	301.0
+7	3.7	300.2
So.	3.1	300.5
	137' E	
So.	2.9	301.0
+8	1.3	302.6
cb	1.4	302.5
+9	2.7	301.2
1/4	2.8	301.1
c	2.4	301.5
1/2	2.1	301.8
cb	1.9	302.0
No.	1.9	302.0
	143' E	
No.	1.2	302.7
+10	1.7	302.2

303.89

db	1.5	302.4
+8	1.0	302.9
1/4	1.4	302.5
c	1.8	302.1
1/4	2.3	301.6
+7	1.9	302.0
db	1.0	302.9
So.	1.7	302.2

160' E

So.	0.4	303.5
db	0.7	303.2
1/4	1.4	302.5
c	1.2	302.7
1/4	1.3	302.6
db	1.0	302.9
No.	0.6	303.3
T.P.	6.92	310.59
	0.22	303.67

175' E

No.	6.6	304.0
db	7.3	303.3
1/4	7.8	302.8
c	7.7	302.9
1/4	7.5	303.1
db	6.9	303.7
So.	6.5	304.1

310.59

POLK. 13

195' E

So.	5.7	304.9
db	6.2	304.4
1/4	6.7	303.9
c	6.7	303.9
+4	6.9	303.7
1/4	6.5	304.1
db	6.3	304.3
No.	6.0	304.6

225' E

No.	4.7	305.9
db	5.3	305.3
1/4	5.3	305.3
c	5.6	305.0
1/4	5.4	305.2
db	5.1	305.5
So.	4.4	306.2

240' E

So.	3.7	306.9
db	4.4	306.2
1/4	4.6	306.0
c	4.7	305.9
1/4	4.9	305.7
db	4.6	306.0
No.	4.0	306.6

310.59

265' E

No.	28	307.8
ob	30	307.6
1/4	33	307.3
+5	32	307.4
+9	35	307.1
c	36	307.0
1/4	40	306.6
ob	35	307.1
So.	29	307.7

285' E

So.	27	307.9
ob	25	308.1
1/4	24	308.2
+8	27	307.9
c	25	308.1
1/4	26	308.1
ob	24	308.2
No.	23	308.3

296' E

No.	20	308.6
ob	24	308.2
1/4	22	308.4
c	22	308.4
1/4	23	308.3
+11	27	307.9

14

ob

So.

So.

+11

ob

1/4

c

1/4

+12

ob

No.

chk B.M.

8.25

317.18

E.L. MISSISSIPPI ST.

No.

ob

+4

1/4

c

1/4

ob

So.

So.

ob

1/4

23 308.3

25 308.1

299.7 = W.L. MISSISSIPPI (GRADED)

24 308.2

24 308.2

28 307.8

22 308.4

20 308.6

20 308.6

22 308.4

16 309.0

14 309.2

181 308.98 =

73

S.D.K. SW
MISS

5.9 11.3

6.0 11.2

6.7 10.5

6.5 10.7

6.5 10.7

6.8 10.4

7.1 10.1

6.5 10.7

10' E

6.2 10.4

6.2 10.8

6.6 10.6

317.18

c	6.0	11.2
1/4	6.1	11.1
db	6.1	11.1
No	6.1	11.1

30' E

No.	5.2	12.0
db	6.0	11.2
1/4	6.2	11.0
c	6.2	11.0
1/4	5.9	11.3
db	5.9	11.5
So.	6.3	10.9

47' E

So.	6.1	10.8
db	5.6	11.6
1/4	5.9	11.3
+8	6.1	11.1
c	5.9	11.3
1/4	4.8	12.1
+7	4.8	12.4
db	5.1	11.8
+7	5.9	11.5
No.	5.3	11.9

65' E

No.	4.8	12.1
db	5.3	11.9

17.18

1/5	5.5	11.7
c	5.9	11.3
1/4	6.0	11.2
db	6.3	10.9
So.	6.6	10.6

76' E

So.	6.2	11.0
db	5.3	11.9
1/5	5.5	11.7
c	5.7	11.5
1/4	5.6	11.6
db	5.3	11.9
No.	4.9	12.5

90' E

No.	4.4	12.8
db	4.8	12.4
1/4	4.5	12.7
+8	4.4	12.8
c	5.1	12.1
+8	5.9	11.3
1/4	5.9	11.3
db	5.5	11.7
So.	6.2	11.0

100' E

So.	6.9	10.3
db	6.6	10.6

POLK 15

317.18

1/4	5.8	11.4
c	4.7	12.5
1/4	4.7	12.5
cl	4.5	12.7
No.	4.6	12.6

116' E

No.	4.6	12.6
+5	5.0	12.2
cl	5.0	12.2
1/4	4.7	12.5
c	4.9	12.3
1/4	5.6	11.6
cl	6.5	10.7
So.	7.0	10.2

132' E

So.	7.5	9.7
cl	6.9	10.3
1/4	6.7	10.5
c	6.2	11.0
1/4	5.9	11.3
cl	5.2	12.0
No.	4.2	13.0

150' E

No.	4.6	12.6
cl	5.5	11.7
1/4	6.2	12.0

POLK

16

+10	6.2	11.0 = Mantle
c	6.6	10.6
1/4	7.3	9.9
cl	7.7	9.5
So.	8.3	8.9

175' E

So.	9.6	7.6
cl	9.7	7.5
1/4	8.9	8.3
c	8.0	9.2
1/4	7.3	9.9
cl	6.4	10.8
No.	5.4	11.8

200' E

No.	7.1	10.1
cl	7.9	9.3
1/4	8.8	8.4
c	9.9	7.3
1/4	10.7	6.5
cl	11.3	5.9
So.	12.1	5.1

215' E

So.	12.6	4.6
cl	12.0	5.2
+1	12.4	4.8
1/4	11.8	5.4

317.18

C			10.9	6.3
1/4			10.0	7.2
db			8.7	8.5
No.			7.8	9.4
234' E				
No.			9.3	7.9
+10			9.7	7.5
db			11.3	5.9
1/4			11.9	5.3
C			12.7	4.5
J.P.	6.43	311.10	12.51	304.67
1/4			7.1	4.0
+11			7.2	3.9
db			6.5	4.6
So			6.6	4.5
250' E				
So.			8.5	2.6
db			8.4	2.7
1/4			8.0	3.1
C			7.5	3.6
1/4			6.9	4.2
db			5.7	5.4
+3			4.7	6.4
No.			3.8	7.3
275' E				
No.			6.0	5.1

311.10

Polk 17

db			6.4	4.2
+5			8.1	3.0
1/4			8.3	2.8
C			8.8	2.3
1/4			9.3	1.8
+11			9.5	1.6
db			9.1	2.0
So			9.1	2.0
4th B.M. 299.7' E. = W.L. Louisiana St (Graded)				
So.	9.08	311.07	9.08	302.02 = 4th B.M. 17.00
			9.4	301.99 = 4th B.M. 17.00
				1.7
db			9.9	1.2
1/4			9.8	1.3
C			9.5	1.6
1/4			9.6	1.5
+7			9.5	1.6
db			8.8	2.3
+10			8.4	2.7
No.			6.9	4.2
E.L. Louisiana				
No.			9.1	2.0
db			9.4	1.7
+3			9.9	1.2
1/4			9.9	1.2
C			9.6	1.5
1/4			9.7	1.4
db			10.0	1.1
So			9.5	1.6

311.07

5' E

So.	9.6	1.5
dr	9.9	1.2
1/4	9.8	1.3
c	10.0	1.1
1/4	10.0	1.1
dr	10.0	1.1
No.	9.9	1.2

15' E

No.	9.2	1.9
dr	9.5	1.6
1/4	9.5	1.6
c	9.5	1.6
1/4	9.3	1.8
dr	9.1	2.0
So.	8.5	2.6

45' E

So.	6.2	4.9
dr	6.5	4.6
1/4	6.6	4.5
c	6.2	4.9
1/4	6.3	4.8
dr	6.9	4.2
No.	6.9	4.2

60' E

No.	6.1	5.0
-----	-----	-----

11.07

POLK 18

dr	5.7	5.4
1/4	5.1	6.0
c	5.1	6.0
1/4	5.7	5.4
+5	6.2	4.9
dr	5.7	5.4
+7	5.1	6.0
So.	5.1	6.0

73' E

So.	4.8	6.3
dr	4.9	6.2
1/4	5.2	5.9
c	4.8	6.3
1/4	4.7	6.4
dr	4.3	6.8
+2	4.0	7.1
No.	4.9	6.2

90' E

No.	4.0	7.1
dr	3.9	7.2
1/4	4.0	7.1
c	3.9	7.2
1/4	4.3	6.8
dr	2.9	8.2
So.	3.3	7.8

311.07

105' E

So.	2.8	8.3
db	2.8	8.3
1/4	2.5	8.6
c	2.0	9.1
1/4	2.8	8.3
db	3.1	8.0
No.	3.2	7.9

120' E

No.	1.7	9.4		
db	1.4	9.7		
1/4	1.6	9.5		
c	1.4	9.7		
1/4	1.5	9.6		
db	1.9	9.2		
So.	1.5	9.6		
T.P.	12.82	323.56	0.33	310.74

138' E

So.	12.3	11.3
+6	12.1	11.5
db	12.6	11.0
+6	12.9	10.7
1/4	12.6	11.0
c	12.5	11.1
1/4	13.2	10.4
db	13.2	10.4

2356

Polk

19

No.

132

10.4

145' E

No.	12.5	11.1
db	12.7	10.9
1/4	11.9	11.7
c	12.1	11.5
1/4	11.7	11.9
+3	12.3	11.3
db	11.8	11.8
So.	11.9	11.7

153' E

So.	11.8	11.8
db	11.7	11.9
1/4	11.7	11.9
c	12.3	11.3
1/4	11.6	12.0
db	12.2	11.4
No.	12.4	11.2

140' E

No.	11.0	12.6
+8	11.7	11.9
db	11.5	11.1
1/4	11.4	11.2
c	11.4	11.2
1/4	11.7	11.9
db	11.6	12.0
So.	11.0	12.6

32356

175' E

So.	10.0	13.6
db	10.9	12.7
+3	11.2	12.4
1/4	10.8	12.8
c	10.7	12.9
1/2	10.4	13.2
db	10.5	13.1
No	10.7	12.9

190' E

No.	9.7	13.9
db	9.7	13.9
1/4	10.3	13.3
c	10.0	13.6
1/2	10.1	13.5
db	10.0	13.6
So.	9.6	14.0

222' E

So.	7.2	16.4
db	7.6	16.0
1/4	7.6	16.0
c	7.3	16.3
1/2	7.2	16.4
db	7.3	16.3
No.	6.9	16.7

2356

POLK 20

228' E

No.	6.6	17.0
+8	5.7	17.9
db	6.4	17.2
1/4	6.7	16.9
c	6.6	17.0
1/2	7.1	16.5
db	6.9	16.7
So.	7.0	16.6

240' E

So.	5.9	17.7
db	5.7	17.9
1/4	5.9	17.7
+8	5.0	18.6
c	5.1	18.5
1/2	5.4	18.2
db	5.3	18.3
No.	5.6	18.0

250' E

No.	4.9	18.7
db	4.9	18.7
1/4	4.5	19.1
c	4.2	19.4
1/2	4.8	18.8
db	4.3	19.3
1/4	3.9	19.7
So.	5.0	18.6

32356

265' E

So.	32	204
+5	36	200
cl	33	203
1/4	34	202
c	36	200
1/4	39	197
cl	41	195
No.	37	199

275' E

No.	30	206
+7	13	223
cl	19	217
1/4	25	211
c	27	209
1/4	24	212
cl	23	213
So.	18	218

295' E

So.	12	224
+9	05	231
cl	08	228
1/4	09	227
c	07	229
1/4	01	235
cl	00	236

POLK 21

No.

0.6

230

300' E = W.L. TEXAS ST (Graded)

T.P. 9.43 331.75 1.24 322.32

No. 8.5 233

+2 8.2 236

cl 8.8 230

1/4 8.7 231

c 8.8 230

1/4 9.0 228

cl 9.0 228

So. 8.8 230

B.M. 678 331.73 6.78 324.97-95 BPSE Texas

E.L. TEXAS ST

So. 6.4 253

cl 6.8 249

+3 7.1 243

1/4 7.0 247

c 6.8 249

1/4 7.2 245

cl 6.8 249

No. 6.3 254

5' E

No. 6.2 255

cl 6.2 255

1/4 6.6 251

c 6.4 253

31.73

1/4		6.7	25.0
ob		6.6	25.1
So		6.5	25.2
	25' E		
So.		5.6	26.1
ob		6.0	25.7
1/4		5.7	26.0
c		5.9	25.8
1/4		5.5	26.2
ob		5.6	26.1
No.		5.1	26.3
	50' E		
No.		4.6	27.1
ob		4.7	27.0
1/2		5.3	26.4
c		5.1	26.3
1/4		5.1	26.3
ob		5.1	26.3
So.		5.3	26.4
	70' E		
So.		4.7	27.0
ob		5.0	26.7
1/4		5.1	26.6
c		5.0	26.7
1/4		4.9	26.8
ob		4.7	27.0

31.73

POLK 22

No.		4.2	27.5
	85' E		
No.		4.1	27.6
ob		4.8	26.9
1/4		4.8	26.9
c		4.6	27.1
1/4		4.8	26.9
ob		4.6	27.1
+9		4.8	26.9
So.		4.5	27.2
	100' E		
So.		4.7	27.0
ob		4.6	27.1
1/4		4.5	27.2
+4		4.3	27.4
c		5.0	26.7
1/4		4.7	27.0
ob		4.6	27.1
No.		4.6	27.1
	135' E		
No.		4.3	27.4
ob		4.3	27.4
1/4		4.4	27.3
c		4.4	27.3
1/4		4.4	27.3
ob		4.4	27.3
So.		4.4	27.3

31.73

150' E

So.	39	27.8
ob	41	27.6
1/4	43	27.4
c	41	27.6
1/4	41	27.6
ob	41	27.6
No.	40	27.7

175' E

No.	38	27.9
ob	39	27.8
+r	42	27.5
1/4	39	27.8
c	37	28.0
1/4	39	27.8
ob	39	27.8
So.	39	27.8

200' E

So.	37	28.0
ob	36	28.1
1/4	35	28.2
c	34	28.3
1/4	39	27.8
ob	38	27.9
No.	38	27.9

31.73

250' E

No.	33	28.4
ob	35	28.2
1/4	36	28.1
c	34	28.3
1/4	38	28.4
ob	35	28.2
So.	33	28.4

275' E

So.	33	28.4
ob	34	28.3
1/4	34	28.3
c	38	27.9
1/4	38	27.9
ob	37	28.0
No.	31	28.6

289' E

No.	47	29.0
+r	33	28.4
ob	35	27.9
1/4	41	27.6
c	39	27.8
1/4	36	28.1
ob	34	28.5
So.	33	28.4

31.73

299.7' E. = Mt. ARIZONA St (GRADED)

37.08

So.		36	28.1	c
cb		38	27.9	1/4
+3		44	27.3	cb
1/4		39	27.8	+9
c		42	27.5	No.
1/4		42	27.5	1/4
cb		40	27.7	cb
+5		34	28.3	1/4
No.		32	28.5	c

T.P.	770	337.08	2.35	329.38	1/4
chk B.M.			7.17	329.91 = 95' ^{SE} Arizona	cb

E. L. ARIZONA.

No.		68	30.2	So.
cb		73	29.7	cb
+6		78	29.2	1/4
1/4		76	29.4	c
c		75	29.5	1/4
1/4		77	29.3	cb
+11		78	29.2	No.
cb		72	29.8	
So.		70	30.0	

5' E

So.		76	29.4	No.
cb		78	29.2	cb
1/4		77	29.3	1/4
				c

13' E

76	29.4
77	29.3
73	29.7
67	30.3
59	31.1

28' E

61	30.9
74	29.6
77	29.3
75	29.5
78	29.2
78	29.2
78	29.2

45' E

77	29.3
79	29.1
78	29.2
76	29.4
76	29.4
76	29.4
72	29.8

69	30.1
64	30.6
71	29.9
75	29.5

37.08

1/4		7.6	29.4
cb		7.3	29.7
So.		7.5	29.5
	60' E		
So.		7.2	29.8
cb		6.2	30.8
1/4		7.1	29.9
c		7.3	29.7
1/4		6.8	30.2
cb		6.7	30.3
No.		6.8	30.2
	75' E		
No.		6.2	30.8
cb		6.3	30.7
1/4		6.3	30.7
c		6.9	30.1
1/4		7.1	29.9
cb		7.1	29.9
So.		6.8	30.2
	90' E		
So		6.7	30.3
cb		7.0	30.0
1/4		6.9	30.1
c		6.7	30.3
1/4		6.4	30.6
cb		5.5	31.5
No		4.7	32.3

37.08

	101' E		
No.		5.5	31.5
cb		5.7	31.3
1/4		6.1	30.9
c		6.4	30.6
1/4		6.5	30.5
cb		6.8	30.2
So		6.9	30.1
	120' E		
So.		6.6	30.4
cb		6.5	30.5
1/4		6.2	30.8
c		5.8	31.2
1/4		5.2	31.8
cb		5.3	31.7
No.		5.6	31.4
	135' E		
No.		5.7	31.3
cb		5.3	31.7
1/4		5.4	31.6
c		5.5	31.5
1/4		5.8	31.2
cb		5.8	31.2
So.		6.2	30.8

POLK 25

37.08

155' E

So.	5.8	31.2
cb	4.9	32.1
1/4	4.7	32.3
C	4.8	32.2
1/4	4.9	32.1
cb	4.6	32.6
No.	4.2	32.8

175' E

No.	3.8	33.2
cb	3.8	33.2
1/4	4.0	33.0
C	4.3	33.7
1/4	4.3	33.7
cb	4.5	32.5
So.	5.0	32.0

210' E

So.	3.1	33.9
cb	2.9	34.1
1/4	2.8	34.2
T.P.	13.13	348.32
C	1.89	335.19
1/4	13.9	34.2
1/4	13.4	34.9
cb	13.2	35.1
No.	13.0	35.3

48.32

225' E

No.	11.4	36.9
cb	12.0	36.0
1/4	12.4	35.9
C	12.9	35.4
1/4	13.1	35.2
cb	12.8	35.5
So.	13.2	35.1

250' E

So.	12.0	36.3
cb	11.6	36.7
1/4	11.5	36.8
C	11.3	37.0
1/4	10.9	37.4
cb	10.3	38.0
No.	9.9	38.4

275' E

No.	8.4	39.9
cb	8.7	39.6
1/4	9.0	39.3
C	9.4	38.9
1/4	9.6	38.7
cb	10.0	38.3
So.	10.2	38.1

26

18.32

300' E = W.L. HAMILTON St

So.	8.1	40.2
cb	77	40.6
1/4	7.2	40.1
c	69	41.4
1/4	68	41.5
cb	67	41.6
No.	6.1	42.2

W. Cb

No.	42	44.1
+10	47	43.6
+12	53	43.0
cb	46	43.7
1/4	48	43.5
c	51	43.2
1/4	56	42.7
cb	63	42.0
So.	63	42.0

W. 1/4

So.	50	43.3
cb	45	43.8
1/4	4.3	44.0
c	39	44.4
1/4	32	45.1
cb	30	45.0
+1	37	44.6
No	31	45.2

18.32

Center Hamilton

No.	1.6	46.7
cb	1.9	46.4
1/4	1.9	46.4
c	2.6	45.7
1/4	2.8	45.5
cb	2.9	45.4
So.	3.6	44.7

E. 1/4

So.	2.5	45.8
cb	1.9	46.4
1/4	1.7	46.6
T.P.	10.65	357.89
c	10.8	47.0
1/4	10.0	47.8
cb	10.0	47.0
No.	9.8	48.0

E. Cb

No.	9.1	48.7
cb	9.4	48.4
+3	8.5	49.3
1/4	9.2	48.6
c	9.7	48.1
1/4	10.4	47.4
cb	10.3	47.5
So.	10.9	46.9

POLK 27

57.89

E. L. HAMILTON.

So.	93	48.5
cb.	91	48.7
1/4	88	49.0
c	85	49.3
1/4	79	49.9
cb.	76	50.2
No.	76	50.2

10' E

No.	65	51.3
cb.	66	51.0
1/4	72	50.6
c	77	50.1
1/4	81	49.7
cb.	83	49.5
So.	83	49.5

25' E

So.	67	51.1
cb.	66	51.2
1/4	68	51.0
c	62	51.6
1/4	56	52.2
cb.	57	52.1
No.	51	52.7

57.89

50' E

No.	29	54.9
cb.	32	54.6
1/4	36	54.2
c	38	54.0
1/4	48	53.0
cb.	49	52.9
So.	54	52.4

T.P. 12.04 366.81

3.15 354.74

75' E

So.	12.0	54.8
cb.	11.9	54.9
1/4	12.0	54.8
c	11.1	55.7
1/4	10.3	56.5
cb.	10.2	56.6
No.	10.5	56.3

100' E

No.	8.9	57.9
cb.	9.2	57.6
1/4	9.6	57.2
c	9.4	57.4
1/4	10.3	56.5
cb.	10.7	56.1
So.	10.6	56.2

POLK 28

66.81

125' E

So.	9.9	56.9
dt	9.5	57.3
1/4	8.9	57.9
c	8.7	58.1
1/4	8.0	58.8
dt	8.4	58.4
No.	7.6	59.2

1.8 x 3.25' box
Top of X water
edge of Capote
Basin @
126.0' E

150' E

No.	6.3	60.5
dt	7.0	59.8
1/4	7.5	59.3
c	8.0	58.8
1/4	8.1	58.7
dt	8.4	58.4
So.	8.9	57.9

175' E

So.	7.7	59.1
dt	7.3	59.5
1/4	7.1	59.7
c	7.1	59.7
1/4	6.7	60.1
dt	6.1	60.7
No.	5.6	61.2

66.81

200' E

No.	4.9	61.9
dt	5.1	61.7
1/4	5.7	61.1
c	6.0	60.8
1/4	6.2	60.6
dt	6.5	60.3
So.	6.8	60.0

225' E

So.	5.8	61.0
dt	5.8	61.0
1/4	5.3	61.5
c	4.7	62.1
+10	4.3	62.5
1/4	3.7	63.1
+9	4.2	62.6
dt	3.9	62.9
No.	3.8	63.0

250' E

No.	3.1	63.7
dt	3.4	63.4
1/4	2.9	63.9
c	3.4	63.4
1/4	4.1	62.7
dt	4.7	62.1
So.	4.8	62.0

66.81

265' E

So.	3.3	63.5
cb	4.2	62.6
1/4	3.6	63.2
c	3.2	63.6
1/4	3.0	63.8
cb	2.4	64.4
No.	2.3	64.5

295' E

No.	0.9	65.9
cb	1.6	65.2
+3	2.3	64.5
1/4	2.2	64.6
c	2.5	64.0
1/4	2.9	63.9
cb	3.1	63.7
So.	2.8	64.0

300' E = W.L. OREGON ST (GRADED)

So.	2.9	63.9
cb	2.9	63.9
+3	3.1	63.4
1/4	2.9	63.9
c	2.5	64.3
1/4	2.1	64.7
+3	2.5	64.3
+12	2.3	64.5

66.81

cb	1.7	65.1
No.	1.6	65.2
chk B.M.	0.91	365.90 = 366.02

POLK IS CLOSED FROM E.L. OREGON ST TO THE W.L. IDAHO ST

on B.M.	3.41	373.27	369.96	BP. SE IDAHO
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E.L. IDAHO

No.	3.3	70.0
cb	3.7	69.6
1/4	3.6	69.7
c	3.6	69.7
1/4	3.8	69.5
cb	3.7	69.6
So.	3.2	70.1

25' E

So.	3.5	69.8
cb	3.7	69.6
1/4	3.6	69.7
c	3.4	69.9
1/4	3.3	70.0
cb	3.3	70.0
No.	3.1	70.2

50' E

No.	3.2	70.1
cb	3.3	70.0
1/4	3.3	70.0

Figured

BP. SE OREGON ST. Plus 1.8 gate

BP. SE IDAHO

73.37

c		35	69.8
1/4		39	69.4
db		37	69.6
So		36	69.7
	75' E		
So		36	69.7
db		38	69.5
1/4		40	69.3
c		35	69.8
1/4		36	69.9
db		36	69.9
No.		35	69.8
	100' E		
No.		38	69.5
db		36	69.9
1/4		36	69.9
c		36	69.7
1/2		41	69.2
db		41	69.2
So		35	69.8
	125' E		
So		37	69.6
db		42	69.1
1/4		43	69.0
c		40	69.3
1/4		36	69.7

Polk 31

73.37

db		37	69.6
+9		38	69.5
No.		45	68.8
	150' E		
No.		46	68.7
db		38	69.5
1/4		37	69.6
c		38	69.5
1/2		42	69.1
+10		46	68.7
db		41	69.2
So		42	69.1
	175' E		
So		42	69.1
db		43	69.0
1/4		46	68.9
c		41	69.2
1/2		36	69.9
db		39	69.4
+7		42	69.1
No.		38	69.5
	200' E		
No.		40	69.3
+7		43	69.0
db		42	69.1
1/4		36	69.7

73.37

c	40	69.3
1/4	46	68.7
db	45	68.8
So.	45	68.8
225' E		
So.	45	68.8
db	45	68.8
1/4	47	68.6
c	42	69.1
1/4	36	69.7
+4	42	69.1
db	44	68.9
No.	41	69.2
250' E		
No.	39	69.4
db	42	69.1
+11	44	68.9
1/4	38	69.5
+8	37	69.6
c	44	68.9
1/4	47	68.6
db	43	69.0
So.	46	68.7
294' E		
So.	51	68.2
db	51	68.2

POLK 32

73.37

1/4	51	68.2
c	48	68.5
1/4	47	68.6
db	44	68.9
No.	39	69.4
300' E = W.L. UTAH (GRADED)		
No.	46	68.7
db	53	68.0
+4	56	67.7
1/4	54	67.9
c	55	67.8
1/4	60	67.3
+11	59	67.4
db	56	67.9
So.	51	68.2
T.P.	625	374.89
E.L. UTAH		
So.	64	68.4
db	71	67.7
+3	76	67.2
1/4	71	67.7
c	68	68.0
1/4	69	67.9
+12	70	67.8
db	64	68.4
No.	60	68.8
368.04 on db SW.		

7d.89

8' E

No			
db	56	69.2	
1/4	63	68.5	
+8	60	68.8	
c	55	69.3	
1/4	59	68.9	
db	67	68.1	
+3	68	68.0	
So	61	68.7	
	61	68.7	

30' E

So	62	68.6	
db	64	68.4	
1/4	63	68.5	
c	61	68.7	
+7	53	69.5	
1/4	56	69.4	
+7	63	68.5	
db	62	68.6	
No.	60	68.8	

55' E

No.	48	70.0	
db	57	69.1	
1/4	58	69.0	
c	50	69.8	
1/4	55	69.3	

7d.89

Polk. 33

db	61	68.7	
So	57	69.1	

70' E

So	56	69.2	
db	57	69.1	
1/4	56	69.4	
c	52	69.6	
1/4	57	69.1	
db	56	69.2	
No	55	69.3	

105' E

No	55	69.3	
db	56	69.2	
1/4	53	69.5	
c	53	69.5	
1/4	51	69.7	
db	54	69.4	
So	55	69.3	

135' E

So	54	69.4	
db	56	69.4	
1/4	49	69.9	
c	45	70.3	
+8	43	70.5	
1/4	48	70.0	
db	52	69.6	
No	52	69.6	

74.89

150' E

No.	48	70.0
db	46	70.2
1/4	46	70.2
c	45	70.3
1/4	50	69.8
db	49	69.9
So.	53	69.5

165' E

So.	55	69.3
db	56	69.2
1/4	54	69.4
c	49	69.9
+6	46	70.2
1/4	53	69.5
db	47	70.1
No.	50	69.8

200' E

No.	55	69.3
db	53	69.5
1/4	49	69.9
+7	46	70.2
c	54	69.4
1/4	56	69.2
db	54	69.4
So.	55	69.3

74.89

225' E

So.	55	69.3
db	55	69.3
1/4	55	69.3
c	51	69.7
+4	40	70.8
1/4	38	71.0
+8	45	70.3
db	43	70.5
No.	54	69.4

275' E

No.	54	69.4
db	53	69.5
1/4	45	70.3
c	54	69.4
1/4	53	69.5
db	51	69.7
So.	57	69.1

293' E

So.	56	69.2
db	54	69.4
+4	60	68.8
1/4	57	69.1
c	54	69.4
1/4	41	70.7
db	47	70.1
No.	53	69.5

Polk. 34

74.89

2998'E = N. L. KANSAS (GRADED)

No.		5.6	69.2
cl		59	68.9
+1		6.4	68.4
1/4		63	68.5
c		59	68.9
1/4		63	68.5
+12		6.6	68.2
cl		6.1	68.7
So.		5.5	69.3
T.P.	2998	371.56	555 36934

E. L. KANSAS

So		2.2	69.3
cl		2.6	68.9
+1		3.3	68.2
1/4		3.1	68.4
c		4.7	68.8
1/4		2.9	68.6
+12		2.3	67.2
cl		2.5	69.0
No.		2.3	69.2

10'E

No.		2.2	69.3
cl		2.8	68.7
1/4		2.7	68.8
+8		2.3	68.2

71.56'

DOLK 35

c		2.6	68.9
1/4		2.6	68.9
cl		2.7	68.8
So.		2.2	69.3

40'E

So		3.6	67.9
cl		3.9	67.6
1/4		3.7	67.8
c		3.2	68.3
+8		1.9	69.6
1/4		2.6	68.8
+4		3.1	68.4
cl		3.2	68.3
No.		2.9	68.6

65'E

No.		3.4	67.1
cl		3.9	67.6
+8		3.7	67.8
1/4		3.0	68.5
+4		2.2	68.3
c		2.9	68.6
1/4		3.8	67.7
cl		3.6	67.9
So.		3.8	67.7

85'E

So.		2.8	68.7
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71.56

cl	2.8	68.7
1/4	4.0	67.5
c	3.9	67.6
+10	3.2	68.3
1/4	3.8	67.7
cl	3.8	67.7
No.	3.9	67.6
105' E		
No.	4.5	67.0
cl	4.4	67.1
+11	4.3	67.2
1/4	3.5	68.0
c	3.7	67.8
1/4	4.3	67.2
cl	4.6	66.9
So.	4.5	67.0
145' E		
So.	4.7	66.8
cl	4.2	67.3
1/4	4.3	67.2
c	4.2	67.3
+5	3.6	67.9
1/4	4.0	67.5
cl	4.7	66.8
No.	4.6	66.9

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71.56

160' E		
No.	4.8	66.7
+4	5.4	66.1
cl	5.0	66.5
1/4	4.1	67.4
+3	3.6	67.9
+8	4.5	67.0
c	4.4	67.1
1/4	4.9	66.6
cl	5.0	66.5
So.	5.0	66.5
175' E		
So.	3.9	68.6
+10	3.7	68.8
cl	4.3	67.2
1/4	5.2	66.3
c	4.9	66.6
+10	4.0	67.5
1/4	4.6	66.9
+7	5.3	76.2
cl	5.1	66.1
+10	5.7	65.8
No.	5.2	66.3
195' E		
No.	5.2	66.3
+2	5.7	65.8

71.56

cb	58	65.7
1/4	53	66.2
+3	47	66.8
c	54	66.1
1/4	53	66.2
+6	48	67.0
cb	50	66.5
So	57	66.8
205' E		
So	54	66.1
cb	48	67.1
+6	41	67.4
1/4	54	66.1
c	55	66.0
+4	48	66.7
1/4	54	66.1
cb	54	66.1
No.	56	65.9
225' E		
No.	62	65.3
cb	60	65.5
+9	59	65.6
1/4	48	66.7
c	57	65.8
1/4	58	65.7
cb	49	66.6

71.56

POLK 37

So.	50	66.5
245' E		
So.	56	65.9
cb	55	66.0
+8	57	65.8
1/4	62	65.3
c	58	65.7
+10	49	66.6
1/4	57	65.8
+5	66	64.9
cb	64	65.1
No.	63	65.2
270' E		
No.	64	65.1
cb	67	64.8
+6	68	64.7
1/4	59	65.6
c	59	65.6
1/4	63	65.2
cb	62	65.3
+9	59	65.6
So	50	66.5
280' E		
So	54	66.1
cb	63	65.2
1/4	64	65.1

71.56

C	63	65.2
1/4	76	63.9
cb	66	64.9
No.	62	65.3
295' E		
No.	65	65.0
cb	73	64.2
+1	81	63.4
1/4	86	62.9
C	80	63.5
1/4	79	63.6
cb	72	64.3
+2	59	65.6
So.	61	65.4

299.7 E = WL 30th St (Graded)

So.	76	63.9
cb	84	63.1
1/4	83	63.2
C	79	63.6
1/4	82	63.3
cb	81	63.4
+3	75	64.0
No.	73	64.2

T.P. 4.91 368.55 7.92 363.64 ^{cb SW} 30th

363.49

68.55

POLK 38

E.L. 30th St.

No.	47	63.8
cb	50	63.5
+2	58	62.7
1/4	56	62.9
+8	52	63.3
cb	55	63.0
1/4	59	62.6
cb	54	63.1
So.	51	63.4
5' E		
So.	39	64.6
cb	48	63.7
1/4	48	63.7
C	44	64.1
1/4	53	63.2
cb	51	63.4
+1	38	64.7
No.	39	64.6
20' E		
No.	39	64.6
cb	49	63.6
1/4	47	63.8
+8	50	63.5
C	46	63.9
1/4	39	64.6

68.55

cl		4.5	64.0
So		4.3	64.2
	40' E		
So		4.0	64.5
cl		4.3	64.2
1/4		4.4	64.1
C		4.8	63.7
1/4		4.7	63.8
cl		4.5	64.0
No		3.8	64.7
	90' E		
No		3.7	64.8
+6		4.9	63.6
cl		5.0	63.5
1/4		5.1	63.4
C		4.8	63.7
1/4		4.5	64.0
cl		4.6	63.8
So		4.8	63.7
	140' E		
So		4.8	63.7
cl		4.7	63.8
1/4		4.4	64.1
+8		4.2	64.3
C		4.7	63.8
1/4		4.7	63.8

68.55

cl		4.5	63.7
No		4.8	63.7
	170' E		
No		4.2	64.3
+13		4.3	64.2
cl		4.6	63.9
1/4		4.5	63.7
C		4.7	63.8
1/4		4.3	64.2
cl		4.6	63.9
So		4.7	63.8
	210' E		
So		4.6	63.9
cl		4.7	63.8
1/4		4.0	64.5
C		4.6	63.9
1/4		4.3	63.2
+6		4.8	63.7
cl		4.7	63.8
+2		4.0	64.5
+13		3.8	64.7
No		3.5	65.0
	255' E		
No		2.2	65.3
+4		3.8	64.7
cl		3.9	64.6
+1		4.3	63.2

POLK 39

68.55

1/4	4.2	64.3
c	4.4	64.1
1/4	4.0	64.5
cb	4.0	64.5
So	4.4	64.1

295' E

So	4.0	64.5
cb	4.2	64.3
1/4	3.7	64.8
c	4.2	64.3
1/4	4.3	64.2
+12	4.1	64.4
cb	3.5	65.0
+9	3.2	65.3
No	2.6	65.9

299.8' E = N.L. OHIO (Graded)

No.	2.8	65.7
cb	3.0	65.5
+1	4.0	64.5
1/4	3.9	64.6
c	3.6	64.9
1/4	3.6	64.9
+12	3.8	64.7
cb	3.1	65.4
So	3.1	65.4

on BM

5.68

371.67

2.56

365.99

BP SE
OHIO

+10

71.67

E.L. OHIO

So.	5.3	66.3
cb	5.6	66.0
+1	6.2	65.4
1/4	5.8	65.8
c	6.0	65.6
1/4	6.1	65.5
+12	6.2	65.4
cb	5.7	65.9
So.	6.3	66.3

5' E

No	5.3	66.3
+5	5.7	65.9
+10	4.0	67.6
cb	5.0	66.6
1/4	5.8	65.8
c	5.8	65.8
1/4	5.1	66.5
+4	4.7	66.9
cb	5.8	65.8
So.	5.6	66.0

15' E

So.	5.6	66.0
cb	5.5	66.1
+5	5.4	66.2
+10	4.2	66.4

40

71.67			
1/4		48	66.8
c		49	66.7
1/4		49	66.7
ob		53	66.3
No.		53	66.3
	38' E		
No.		51	66.5
ob		54	66.2
1/4		55	66.1
c		50	66.6
+7		42	67.4
1/4		46	67.0
+3		42	67.4
ob		55	66.1
So.		54	66.2
	55' E		
So.		52	66.4
ob		56	66.0
1/4		46	67.0
+6		41	67.5
c		46	67.0
+6		54	66.2
1/4		55	66.1
ob		52	66.4
No.		51	66.5

71.67			
	100' E		
No.		49	66.7
ob		52	66.4
1/4		52	66.4
c		51	66.5
1/4		49	66.7
ob		53	66.3
So.		54	66.2
	135' E		
So.		52	66.4
ob		51	66.5
1/4		46	67.0
c		50	66.6
1/4		51	66.5
ob		49	66.7
No.		48	66.8
	150' E		
No.		49	66.7
ob		48	66.8
1/4		50	66.6
c		50	66.6
1/4		47	66.9
ob		43	67.3
+7		40	67.6
So.		49	66.7

71.67

165' E

So.	5.2	66.4
cl	5.0	66.6
1/4	4.5	67.1
c	4.5	67.1
1/4	4.7	66.9
cl	4.7	66.9
No.	4.7	66.9

200' E

No.	4.4	67.2
cl	4.5	67.1
1/4	4.6	67.0
c	4.5	67.1
1/4	4.3	67.3
cl	4.6	67.0
So.	5.0	66.6

220' E

So.	4.9	66.7
cl	4.9	66.7
1/2	3.3	68.3
+10	3.6	68.2
c	4.2	67.4
1/4	4.4	67.2
cl	4.4	67.2
No.	4.4	67.2

71.67

235' E

No.	4.4	67.2
cl	4.2	67.4
1/4	4.4	67.2
c	4.5	67.1
1/4	4.1	67.5
+6	3.8	67.8
cl	4.7	66.9
So.	4.6	67.0

260' E

So.	4.1	67.5
cl	4.0	67.6
1/4	3.9	67.7
c	4.3	67.3
1/4	4.4	67.2
cl	4.4	67.2
No.	4.5	67.1

280' E

No.	4.6	67.0
cl	4.5	67.1
1/4	4.5	67.1
c	4.3	67.3
1/4	3.6	68.0
cl	3.6	68.0
So.	3.4	68.2

POLK 42

71.67

296' E

So.	34	68.2
dt	36	68.0
1/4	45	67.1
c	47	66.9
1/4	48	66.8
+11	50	66.6
dt	46	67.0
No.	45	67.1

300.2' E = W.L. Illinois (Graded)

No.	45	67.1
dt	48	66.8
+1	51	66.5
1/4	48	66.8
c	47	66.9
1/4	49	66.7
dt	47	66.9
So.	44	66.2

1.61 368.10 5.18 366.19 ^{SE} Illinois

E.L. Illinois

So.	1.2	66.9
dt	1.8	66.3
+2	2.1	66.0
1/4	1.6	66.5
c	1.7	66.4
1/4	2.0	66.1

68.10

+12

dt

No.

No.

dt

1/4

c

1/4

dt

+5

So.

So.

dt

1/4

c

1/4

dt

No.

No.

dt

1/4

c

1/4

23

18

14

5' E

18

19

21

19

17

18

10

1.5

13' E

20

20

1.5

2.1

1.7

2.1

2.0

45' E

3.2

3.3

3.1

2.7

2.3

POLK 43

65.8

66.3

66.7

66.3

66.2

66.0

66.2

66.4

66.3

67.1

66.6

66.1

66.1

66.6

66.0

66.4

66.0

65.7

64.9

64.8

65.0

65.4

65.8

68.10

db	2.5	65.6
So.	1.7	66.4
80' E		
So.	36	64.5
db	36	64.5
+6	27	65.4
1/4	27	65.4
c	31	65.0
1/4	40	64.1
db	40	64.1
No.	42	63.9

105' E

No.	47	63.4
db	47	63.4
1/4	45	63.6
c	44	63.7
+5	35	64.6
1/4	36	64.5
db	40	64.1
So.	39	64.2

130' E

So.	37	64.4
db	40	64.1
1/4	41	64.0
c	47	63.4
1/4	52	62.9

68.10

db	54	62.7
No.	54	62.7
145' E		
No.	57	62.4
db	57	62.4
1/4	56	62.5
c	49	63.2
1/4	45	63.6
db	47	63.4
So.	47	63.4

180' E

So.	51	63.0
db	49	63.2
1/4	47	63.4
c	56	62.5
1/4	63	61.8
db	63	61.8
No.	65	61.6

225' E

No.	77	60.4
db	76	60.5
1/4	73	60.8
c	69	61.2
1/4	62	61.9
db	60	62.1
So.	60	62.1

POLK

44

68.10

260' E

So.	69	61.2
db	76	60.5
1/4	73	60.8
c	79	60.2
1/4	86	59.5
db	89	59.2
No.	86	59.5

280' E

No.	92	58.9
db	94	58.7
1/4	92	58.9
c	90	59.1
1/4	83	60.8
+3	77	60.4
db	82	59.9
So	74	60.7

297' E

So.	84	59.7
db	91	59.0
+2	98	58.3
1/4	96	58.5
c	99	58.2
1/4	101	58.0
db	103	57.8
No.	98	58.3

68.10

300' E = W.L. IOWA ST.

No.	10.8	57.3
db	11.2	56.9
1/4	11.1	57.0
c	10.6	57.5
1/4	10.5	57.6
+7	10.8	57.3
db	10.1	58.0
So.	9.8	58.3

T.P. 346 360.58 ✓ 10.98 357.12

E.L. IOWA

So	3.4	57.1
db	4.2	56.3
1/4	4.0	56.5
c	4.3	56.2
1/4	4.6	55.9
+7	5.1	55.4
db	4.2	56.3
No.	3.8	56.7

8' E

No.	3.3	57.2
+12	3.5	57.0
db	4.4	56.1
+9	3.2	56.3
1/4	4.6	55.9
c	4.4	56.1

POLK 45

60.58

1/4		35	57.0
cb		36	56.9
So.		40	56.5
	42' E		
So.		38	56.7
cb		41	56.4
1/4		43	56.2
C		45	56.0
1/4		48	55.7
+10		52	55.3
cb		41	56.4
+1		33	57.2
No.		36	56.9
	63' E		
No.		39	56.6
+13		39	56.6
cb		53	55.2
+3		58	54.7
1/4		49	55.6
C		45	56.0
+6		41	56.4
1/4		45	56.0
cb		46	55.9
+2		55	55.0
So.		51	55.4

60.58

POLK 46

	70' E		
So.		53	55.2
+6		45	56.0
cb		48	55.7
1/4		46	55.9
C		47	53.8
1/4		51	55.4
+7		60	54.5
cb		58	54.7
+1		41	56.4
No.		43	56.2
	100' E		
No.		44	56.1
+12		44	56.1
cb		65	54.0
1/4		54	55.1
C		49	55.6
1/4		46	55.9
cb		47	56.8
So.		53	55.2
	125' E		
So.		61	54.4
cb		52	55.3
1/4		50	55.5
C		51	55.4
1/4		59	55.8

60.58

+10		61	54.4
ob		55	55.0
+1		48	55.7
No.		49	55.6
	140' E		
No.		46	55.9
ob		52	55.3
+2		62	54.3
1/4		58	54.7
c		52	55.3
1/4		54	55.1
ob		57	54.8
So.		65	54.0
	145' E		
So.		67	53.8
ob		63	54.2
1/4		59	54.6
c		54	55.1
1/4		57	54.8
+5		61	54.4
+11		61	54.4
ob		59	54.8
No.		48	55.7
	170' E		
No.		56	54.9
ob		52	55.3

60.59

POLK

47

+2		62	54.3
1/4		61	54.4
c		56	54.9
1/4		57	54.8
ob		58	54.7
+6		66	53.9
So		68	53.7
	200' E		
So.		70	53.5
+8		68	53.7
ob		59	54.6
1/4		57	54.8
c		61	54.4
1/4		62	54.3
+10		66	53.9
ob		52	55.3
No.		52	55.3
	235' E		
No.		51	55.4
ob		57	54.8
+3		74	53.1
1/4		66	53.9
c		62	53.3
1/4		60	54.5
ob		60	54.5
So		69	53.6

60.58

255' E

So	60	54.5
cl	55	55.0
1/4	58	54.7
C	62	54.3
1/4	66	53.9
+10	77	52.8
cl	7.0	53.5
+0.1	56	54.9
No.	56	54.9

280' E

No.	58	54.7
+12	53	55.2
cl	7.0	53.5
+12	79	52.6
1/4	66	54.1
C	6.0	54.5
1/4	50	55.5
cl	49	55.6
+5	49	55.6
+8	57	54.8
So.	57	54.8

295' E

So	55	55.0
cl	51	55.4
1/4	58	54.7
+5	64	54.1
C	65	54.0
1/4	71	53.4

60.58

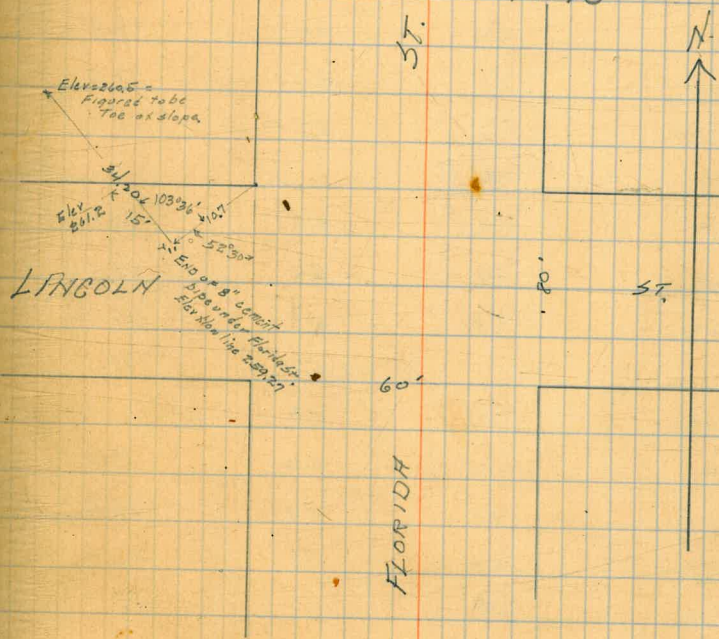
+11
cl
+11
No.
No.
+12
cl
1/4
0
+9
1/4
cl
So.
T.P.

299.2 = NL 32nd ST (Grade)

69	53.6
71	53.4
57	55.3
54	55.1
54	55.1
54	55.1
59	54.6
79	52.8
71	53.4
66	53.9
70	53.5
64	54.1
60	54.5
62	54.3
517	55.4

55.4 Top K/L
SE Tower

For sections E of 32nd St book 1096



2/27/19

Gregory.

CROSS SECTION OF
 LINCOLN AVE 80 wide 14' above 13 1/4"
 from E.L. Park Blvd To
 City Boundary

LINCOLN 49

on B.M.

5.03

337.23

332.20

NE. PARK

E.L. Park Blvd.

No.	47	332.5
-----	----	-------

cb	51	321
----	----	-----

1/4	55	31.7
-----	----	------

C	56	31.6
---	----	------

1/4	6.0	31.2
-----	-----	------

+12	6.6	30.8
-----	-----	------

cb	5.9	31.3
----	-----	------

So.	57	31.5
-----	----	------

4' E

So.	53	31.9
-----	----	------

cb	5.4	31.8
----	-----	------

+1/4	5.8	31.4
------	-----	------

1/4	5.7	31.5
-----	-----	------

C	5.3	31.9
---	-----	------

1/4	5.2	32.0
-----	-----	------

+11	5.0	32.2
-----	-----	------

cb	4.6	32.6
----	-----	------

No.	4.0	33.2
-----	-----	------

50' E

No.	3.4	32.8
-----	-----	------

cb	3.8	32.4
----	-----	------

+2	4.4	32.8
----	-----	------

1/4	4.4	332.8
-----	-----	-------

C	4.4	332.8
---	-----	-------

1/4	4.9	32.3
-----	-----	------

+12	5.1	32.1
-----	-----	------

cb	4.6	32.6
----	-----	------

So.	4.6	32.6
-----	-----	------

100' E

So.	3.9	33.3
-----	-----	------

+12	3.7	33.5
-----	-----	------

cb	4.7	32.5
----	-----	------

1/4	4.3	32.9
-----	-----	------

C	3.8	33.4
---	-----	------

1/4	3.7	33.5
-----	-----	------

+10	3.9	33.3
-----	-----	------

cb	3.0	34.2
----	-----	------

No.	2.9	34.3
-----	-----	------

150' E

No.	3.0	34.2
-----	-----	------

cb	3.2	34.0
----	-----	------

+3	3.5	33.7
----	-----	------

1/4	3.5	33.7
-----	-----	------

C	4.0	33.2
---	-----	------

1/4	4.1	35.1
-----	-----	------

No.	4.4	32.8
-----	-----	------

+8	3.2	34.0
----	-----	------

So.	3.1	33.4
-----	-----	------

Corb and Side walk in on No. Side from E.L. Alley To Georgia.

175' E

So.	2.7	334.5
+7	3.7	33.5
cl	4.9	32.3
1/4	5.1	32.1
c	4.8	32.4
1/4	4.1	33.1
+7	4.0	33.2
cl	5.2	32.0

200' E

	5.83	332.0 on cement
		331.4 on cement
cl	6.3	30.9
+5	5.7	31.5
1/4	5.7	31.5
c	6.0	31.2
1/4	6.4	30.8
cl	6.3	30.9
+5	5.6	31.6
So.	2.7	34.5

203' E

So.	3.7	33.5
+10	6.1	31.1
cl	6.5	30.7

209' E

So. cb.	6.8	30.4
---------	-----	------

+4

So.

So.

+3

+7

+10

cl

1/4

c

1/4

+8

cl

cl

1/4

c

1/4

cl

+1

+4

+11

So.

211' E

6.4	330.8
3.5	33.7
2.6	34.6
2.9	34.3
5.7	31.5
6.8	30.4
7.1	30.1
7.3	29.9
7.0	30.2
6.6	30.6
6.4	30.8
6.9	30.3
6.53	330.3 on cement

247' E

8.88	328.4 on cement
9.5	27.7
9.1	28.1
9.1	28.1
9.6	27.6
9.8	27.4
8.5	28.7
8.2	29.0
3.4	333.8
3.2	334.0

270' E

So.	4.3	332.9
+3	5.1	321
+11	11.0	26.72
cl	11.6	25.6
1/4	11.6	25.6
c	11.3	25.9
1/4	11.4	25.8
cl	11.1	26.1
	10.29	327.0 ^{on account}

289' E

cl	12.1	25.1
1/4	12.6	24.6
c	12.0	25.2
1/4	12.5	24.7
+9	12.7	24.5
cl	12.2	25.0
+10	10.3	26.9
So.	5.5	31.7

290' E

So.	4.3	27.9
cl.	12.3	24.9

300' E = W. L. Georgia (Graded)

So.	11.8	25.4
cl	12.5	24.7
+4	13.1	324.1

1/4

c

1/4

cl.

alt B.M.

T.P. 097

325.25

No.

+11

cl

1/4

c

1/4

cl

So

So.

cl

1/4

c

1/4

cl

No.

T.P.

0.76

312.44

12.8

12.4

13.0

12.5

12.14

11.56

12.95

2.7

4.0

3.1

2.5

2.1

2.1

2.3

2.1

7.4

6.3

5.2

2.7

3.8

7.3

7.7

13.07

324.4

24.8

24.0

24.7

25.1

325.67 = 74 ^{alt 1/4 Ga.}

324.28

322.6

21.3

22.2

22.8

23.2

23.2

23.0

23.2

17.9

19.0

20.1

22.6

21.5

18.0

317.6

312.18

on account

E. L. Georgia

8' E

25' E

No.	5.7	307.2
+11	4.4	8.5
cb	31	9.8
1/4	1.8	11.1
c	2.2	10.7
1/2	3.7	9.2
cb	3.8	9.1
So.	4.9	8.0

37' E

So.	8.6	4.3
cb	7.7	5.2
1/4	7.4	5.5
+7	8.0	4.9
c	7.1	5.8
1/4	6.9	6.0
cb	6.8	6.1
+3	6.3	6.6
No.	6.6	6.3

52' E

No.	7.5	5.4
cb	7.3	5.6
1/4	8.2	4.7
c	8.7	4.2
1/2	8.8	4.1
cb	8.8	304.1

So.

So.

cb

1/4

c

1/2

cb

No.

+15

-15

No.

cb

1/4

c

1/2

cb

+9

So.

+15

-15

So.

+6

cb

9.2

303.7

58' E

9.3	3.6
8.9	4.0
8.6	4.3
7.4	5.5
7.6	5.9
8.4	4.5
10.4	302.5
13.3	299.6

65' E

15.0	297.9
14.1	298.8
12.7	300.2
10.2	302.7
9.5	304.4
7.7	305.2
8.4	4.5
10.1	2.8
9.6	3.3
9.8	303.1

70' E

10.2	2.7
9.7	3.2
10.1	2.8
8.5	304.4

1/4		99	303.0
c		11.5	1.4
1/4		13.5	299.4
cb		14.9	298.0
No.		15.5	297.4
+20		16.0	296.9

75' E

-20		16.2	296.7
No.		17.0	295.9
cb		16.1	296.8
1/4		15.6	297.3
c		14.1	298.8
1/4		13.1	299.8
cb		11.7	301.2
So.		11.2	301.7
+15		10.3	302.6
T.P.	0.10	200.19	12.85
			300.09

87' E

-20		1.8	298.4
So.		4.0	296.2
cb		4.8	295.4
1/4		5.6	294.6
c		5.7	294.5
1/4		5.9	294.3
cb		5.8	294.4
No.		5.5	294.7
+20		4.9	295.3

1+00

-20		6.6	
No.		7.2	293.0
cb		7.4	92.8
+7		8.2	92.0
1/4		7.9	92.3
c		7.8	92.4
1/4		7.5	92.7
cb		7.6	92.6
So.		8.1	92.1
+3		6.8	93.4
+15		6.4	293.8

1+22

-8		10.5	289.7
So.		10.3	89.9
cb		10.1	89.1
1/4		10.7	89.5
c		10.5	89.7
1/4		10.5	89.7
cb		10.0	89.2
No.		9.5	299.7
+20		10.4	289.8

140' E

-20		13.5	286.7
No.		13.9	286.3
cb		14.0	86.2

1/4			14.2	286.0	So		8.9	279.1
c			14.2	286.0	+10		7.6	280.4
1/4			14.6	285.6		185' E		
cb			14.4	285.8	So.		10.3	277.7
So.			13.2	287.0	cb		10.4	77.6
+13			13.3	286.9	1/4		10.4	77.6
T.P.	0.82	287.97	12.44	287.75	c		10.1	77.9
		155' E			1/4		9.6	78.4
-20			2.9	285.1	cb		9.1	78.9
So.			3.6	84.4	No.		8.7	279.3
+4			4.9	83.1		200' E		
cb			5.6	82.4	No.		10.1	277.9
1/4			5.9	82.1	cb		10.6	77.4
c			5.7	82.3	1/4		11.1	76.9
1/4			5.6	82.4	c		11.7	76.3
cb			4.6	83.4	1/4		11.5	76.5
No.			4.1	83.9	cb		11.9	76.1
+20			3.4	84.6	So.		11.6	76.4
		175' E			T.P.	1.22	276.30	12.89
-20			6.5	81.5				275.08
No.			7.0	81.0		225' E		
cb			6.7	81.3	So.		3.5	272.8
1/4			8.2	79.8	cb		3.2	73.1
c			9.3	78.7	1/4		2.9	73.6
1/4			9.2	78.8	c		2.3	74.0
cb			9.3	78.7	1/4		1.7	74.6
					cb		1.1	75.2

No	07	275.6
	250' E	
No	29	278.4
cb	33	73.0
1/4	32	73.1
c	44	71.9
1/4	49	71.4
cb	51	71.2
So.	57	70.6
	273' E	
So.	87	267.6
cb	80	268.3
1/4	77	268.6
c	77	68.6
1/4	77	68.6
cb	76	68.7
No.	79	68.4
+8	90	67.3
	277' E	
-15		2605
-6		260.8
No.	14.1	262.2
+3	13.2	63.1
+3.5	10.6	65.7
+7	8.5	67.8
cb	86	267.7

1/4	88	267.5
c	89	267.4
1/4	85	67.8
cb	86	67.7
So.	91	67.2
+10	91	267.2
	285' E	
-10	10.4	265.9
(No) South?	10.5	65.8
cb	10.1	65.2
1/4	10.0	66.3
c	96	66.7
1/4	10.3	66.0
+11	10.4	65.9
T.P. 3.53	268.46	11.37
cb	57	62.8
+8	80	60.5
No.	82	60.3
+15	7.2	61.3
	305' E	
-10	7.1	61.4
No.	7.7	60.8
cb	7.0	61.5
+5	5.7	62.8
1/4	5.6	62.9
c	4.7	263.8

1/2	264.5	58	262.7
cb		5.5	63.0
So.		51	63.4
310' E = W.L. Florida St (graded)			
So.		64	62.1
cb		67	61.8
1/4		65	62.0
C		63	62.2
1/4		63	62.2
cb		61	62.4
No.		50	63.5 ^{264.29}
chk B.M.		420	264.26 = 29 Florida ^{spk SW}

E-L Florida

No.		53	263.2
cb		56	62.9
1/4		58	62.7
C		60	62.5
1/4		62	62.3
cb		64	62.1
So.		63	62.2
10' E			
So.		57	62.8
cb		53	63.2
1/4		49	63.6
C		49	63.6
1/4		42	264.3

cb		41	264.4
No.		43	64.2
25' E			
No.		21	66.4
cb		24	66.1
1/4		31	65.4
C		35	65.0
1/4		36	64.9
cb		34	65.1
So.		44	64.1
50' E			
So.		28	65.7
cb		25	66.0
1/4		22	66.3
C		27	65.8
1/4		25	66.0
cb		21	66.4
No.		20	266.5
75' E			
No.		0.9	67.6
cb		1.0	67.5
1/4		1.1	67.4
C		1.3	67.2
1/4		1.3	67.2
cb		1.5	67.0
So.		1.9	266.6

100' E

So.		0.3	267.3
T.P.	12.43	280.77	0.12
26824			
cb		12.8	268.0
1/4		12.5	268.3
c		12.4	68.4
1/4		12.5	68.3
cb		12.6	68.2
No.		11.9	68.9

108' E

No.		10.5	270.3
cb		10.7	70.1
1/4		11.8	69.0
c		12.2	68.6
1/4		12.1	68.7
cb		12.0	68.8
So.		12.0	68.8

115' E

So.		10.9	69.9
cb		11.1	69.7
1/4		11.3	69.5
c		11.4	69.4
1/4		10.5	70.3
cb		9.3	271.5
No.		9.5	271.3

135' E

No.		7.2	273.6
cb		7.5	73.3
1/4		7.7	73.1
c		8.2	72.6
1/4		8.4	72.4
cb		8.1	72.7
So.		8.6	72.2

170' E

So		5.3	75.5
cb		4.7	76.1
1/4		4.4	76.4
c		3.7	77.1
1/4		3.7	77.7
cb		2.8	78.0
No.		2.5	78.3

175' E

Cement Approach To Garage on No. 2.15 278.6

200' E

No		0.3	80.5
cb		0.9	79.9
1/4		1.0	79.8
c		1.4	79.4
1/4		2.0	78.9
cb		2.5	78.3
So.		2.5	78.3

225' E

So.			2.0	278.8
cb			1.0	279.8
1/4			0.1	80.4
T.P.	8.16	288.62	0.31	280.46
c			7.5	280.8
1/4			7.7	80.9
cb			7.0	81.6
No.			6.5	82.5

250' E

No.			5.2	83.3
cb			5.7	82.9
1/4			6.0	82.6
c			6.6	82.0
1/4			7.1	81.2
cb			7.9	80.7
So.			9.1	279.5

280' E

So.			8.2	280.4
cb			7.0	81.6
1/4			5.6	83.0
c			5.1	83.5
1/4			4.5	84.1
cb			4.2	84.4
tr			3.9	84.7
No.			3.8	84.8

308' E

No.			2.5	286.8
cb			2.9	85.7
1/4			3.9	84.7
c			4.5	84.1
1/4			5.1	83.5
cb			5.7	82.9
So.			7.0	81.6

7(310)
308' E = W.L. ALABAMA (Graded)

So.			5.9	82.7
cb			5.9	82.7
1/4			5.2	83.4
c			4.5	84.1
1/4			4.2	84.4
No.			3.8	84.8
No.			3.1	285.5

on B.M. 926 295.30

258

28604 = 11 NW Ala. + Linc.

E.L. ALABAMA

No.			8.8	286.5
+3			6.9	88.4
cb			6.8	88.5
1/4			8.1	87.2
c			8.9	86.4
1/4			10.2	85.1
cb			10.9	84.4
So.			11.2	284.1

95.3
5' E

So.	11.0	284.3
cb	10.4	284.9
1/4	9.6	85.7
+8	7.8	87.5
c	7.8	87.5
1/4	6.8	88.5
cb	6.1	89.2
No.	5.8	89.5

25' E

No.	4.3	91.0
+2	5.0	90.3
cb	5.6	89.7
1/4	6.5	88.4
c	7.2	88.1
1/4	8.3	87.0
cb	9.0	86.3
So.	10.0	85.3

58' E

So.	8.7	86.6
cb	8.0	87.3
1/4	7.2	88.1
c	6.2	89.1
1/4	5.5	89.8
cb	4.3	91.0
+2	4.1	91.2
No.	3.3	92.0

75' E

No.	2.7	292.6
cb	4.3	91.0
1/4	5.1	90.4
c	5.7	89.6
1/4	6.7	88.6
cb	7.8	87.5
So.	8.4	86.9

100' E

So.	8.0	87.3
cb	6.9	88.4
1/4	6.1	89.2
c	5.4	89.9
1/4	4.5	90.8
cb	3.3	92.0
No.	2.3	93.0

115' E

No.	1.7	93.6
cb	2.6	92.7
1/4	4.0	91.3
c	5.0	90.3
1/4	5.9	89.4
cb	6.8	88.5
So.	7.8	287.5

130° E

So.	2.7	288.6
cb	6.9	88.4
1/4	5.9	89.4
c	4.5	90.8
1/2	2.4	92.9
cb	2.2	93.1
No.	1.8	93.5

155° E

No.	2.4	92.9
cb	2.0	93.3
1/4	2.3	93.0
c	3.3	92.0
1/2	5.8	89.5
cb	7.0	88.3
So.	8.2	87.1

180° E

So.	10.2	85.1
cb	9.0	86.3
+9	8.2	87.1
1/4	6.7	88.6
c	4.9	90.4
1/2	3.8	91.5
cb	3.7	91.6
No.	3.0	92.3

200° E

No.	4.3	291.0
cb	4.8	90.5
1/4	4.8	90.5
c	5.7	89.6
1/2	7.1	88.2
+4	9.2	86.1
cb	10.5	84.8
So.	11.3	284.0

218° E

So.	11.3	84.0
cb	10.5	84.8
1/4	8.3	87.0
c	8.0	87.3
1/2	6.2	89.1
cb	6.3	89.0
No.	5.3	290.0

243° E

No.	6.5	88.8
+1	7.1	88.2
cb	8.4	86.9
1/4	8.9	286.4
c	9.5	85.8
1/2	9.7	85.6
cb	9.6	85.7
So.	10.5	284.8

258' E

So.	10.2	284.9
cb	9.7	85.6
1/4	9.9	85.4
c	9.8	85.5
1/4	9.2	85.9
cb	9.0	86.3
+11	8.4	86.9
No.	7.1	88.2

275' E

No.	73	✓88.0
+3	82	87.1
cb	9.4	85.9
1/4	9.6	85.7
c	9.7	85.6
1/4	9.9	85.4
cb	10.1	85.2
So.	9.9	85.4

295' E

So.	10.3	✓85.0
cb	10.0	85.3
1/4	9.7	85.6
c	9.5	85.8
1/4	9.7	85.6
cb	9.6	85.7
No.	8.3	287.0

300' E = W L MISSISSIPPI (GRADED)

No.	8.3	287.0		
cb	9.9	85.4		
1/4	9.9	85.4		
c	9.9	85.4		
1/4	10.1	85.2		
cb	10.2	84.9		
So.	10.2	85.1		
T.P. on BM 407	290.12	9.23	286.07	NW MISS 286.13

LINCOLN

N

FOR X

MISSISSIPPI



290.14

Cross Section of Ditch from Inlet of
24" pipe To Outlet of 18" pipe. See previous page for
location.

0+00 = Inlet of 24" pipe

5' No. of $\frac{1}{2}$	10.0	280.14	
1.3' - - -	11.7	79.4	
$\frac{1}{2}$	14.45	75.1	= Non line
1.3' So. of $\frac{1}{2}$	11.6	78.5	
5' So - -	9.3	82.8	

0+05

5' So. of $\frac{1}{2}$	9.0	81.1	
2' - - -	11.3	78.8	
1' - - -	14.3	75.8	
$\frac{1}{2}$	14.3	75.8	
3' No. of $\frac{1}{2}$	13.9	76.2	
5' - - -	10.9	79.2	

0+10

5' No. of $\frac{1}{2}$	10.9	79.2	
3' - - -	14.1	76.0	
$\frac{1}{2}$	14.1	76.0	
1.5' So.	11.3	78.8	
5' -	9.3	80.8	

0+17

5' So. of $\frac{1}{2}$	9.9	80.2	
$\frac{1}{2}$	11.5	78.6	
0.5' No.	13.7	76.4	

290.14

62

3' No.	14.0	276.1
4.5' -	13.7	76.4
5' -	12.8	77.3

0+21'

5' No.	13.0	77.1
3' -	14.0	76.1
1' -	13.6	76.5
$\frac{1}{2}$	13.0	77.1
2' So.	10.5	79.6
5' -	10.0	80.1

0+36

5' So.	9.3	80.8
1' -	17.6	78.5
$\frac{1}{2}$	13.2	76.7
4' No.	13.2	76.7
5' -	11.2	78.9

0+50

5' No.	10.7	79.4
$\frac{1}{2}$	13.0	77.1
2.5' So.	13.1	79.0
4' -	10.3	79.2
5' -	9.9	80.2

0+60

5' So.	9.9	80.4
3' -	12.3	77.8
$\frac{1}{2}$	12.7	77.4

1' No	12.6	77.5
5' ✓	8.8	81.3
0 + 70.3 = Outlet 18" pipe		
5' No.	7.8	82.3
C	12.5	77.6
	(13.8)	76.9 ✓ flow line
2' So.	11.9	78.2
5' So.	9.4	79.7

E. L. MISSISSIPPI.

No.	3.0	287.1
cb	3.8	286.3
1/4	4.2	285.9
C	4.9	285.2
+7	4.9	285.2
1/4	4.2	285.9
cb	4.5	285.6
So.	4.2	285.9
10' E		
So	2.2	✓ 287.9
cb	2.8	287.3
1/4	3.4	286.7
C	6.9	283.2
1/4	7.8	282.3
+12	6.2	283.9
cb	5.5	✓ 284.6

+7	3.5	286.6
+12	3.3	286.8
No.	1.9	288.2
16' E		
T.P.	3.49	290.49
No.	2.2	289.3
+2	3.8	286.7
+8	4.8	285.7
cb	6.5	284.0
1/4	9.6	280.9
+5	11.6	278.9
C	8.4	282.1
+6	6.8	283.7
1/4	4.2	286.3
+3	3.3	287.2
cb	2.7	287.8
So.	2.1	288.4
17' E		
So.	2.0	288.5
cb	2.7	287.8
1/4	3.6	286.9
+7	7.5	283.0
C	8.6	281.9
+5	11.3	279.2
+5.1	15.3	275.2
+9.0	15.3	275.2

1/4	10.1	280.4
cb	6.9	83.4
+7	4.5	86.0
+12	4.0	86.5
No.	1.9	88.6
25' E		
No.	2.5	88.0
+3	5.2	85.3
cb	8.2	82.3
+9	11.4	79.1
+12	14.4	76.1
1/4	14.5	76.0
+3	14.4	76.1
+6	10.4	80.1
C	7.6	82.9
+6	6.6	83.9
1/4	3.8	86.7
+2	2.7	87.8
cb	2.4	88.1
So.	1.6	√88.9
40' E		
So.	1.5	89.0
+7	1.1	89.4
cb	1.9	88.6
+11	1.8	88.7
1/4	3.1	√87.4

C	8.3	282.2
1/4	10.4	80.1
+2	10.7	79.8
+21	13.5	77.0
+8	14.1	76.4
cb	10.8	79.7
+2	9.4	81.1
+13	6.3	84.2
No.	5.1	85.4
T.P.	690	292.99
50' E		
No.	6.8	286.2
+0.7	8.9	84.1
+6	12.0	81.0
+13	13.7	79.3
cb	16.1	76.9
+5	16.0	77.0
+8	12.3	80.7
1/4	11.8	81.2
0	10.5	82.5
1/4	4.7	88.3
+2	3.6	89.4
cb	3.7	89.3
+8	2.9	90.1
So.	3.5	√89.5

93.0

58' E

So.	3.1	289.9
+6	2.4	90.6
cb	3.3	89.7
+9	3.1	89.9
1/2	3.6	89.4
c	9.1	83.9
+9	9.9	83.1
1/2	11.0	82.0
+5	11.6	81.4
+10	16.2	76.8
cb	15.8	77.2
+4	12.7	80.3
+10	12.2	80.8
+13	10.5	82.5
No.	7.7	85.3
-10	5.7	87.3
No.	11.1	81.9
+4	15.0	78.0
+7	14.7	78.3
cb	10.4	82.6
1/4	8.7	84.3
c	7.0	286.0
1/4	2.3	90.7
cb	2.5	90.5
So.	2.0	291.0

81' E

LINCOLN 85

84' E

So.	1.8	291.2
cb	2.3	90.7
1/2	2.3	90.7
c	6.5	86.5
1/2	8.0	85.8
cb	10.2	82.6 ✓
+5	12.7	80.3
+9	13.1	79.9
No.	11.9	81.1
+10	5.6	287.4
-10	5.8	287.2
No.	10.3	82.7
+8	11.0	82.0
+11	7.2	85.8
cb	7.0	86.0
1/2	5.8	87.2
c	2.8	90.2
1/2	1.4	91.6
cb	0.8	92.2
So.	+0.1	292.9
T.P.	6.29	298.86
So.	5.3	293.6
cb	6.0	92.9

103' E

111' E

1/2	6.5	292.4
c	7.6	91.3
1/6	10.0	88.9
cb	12.1	86.8
+2	13.8	85.1
No.	13.1	85.5
+10	11.7	87.2

125' E

-10	13.3	85.6
No	12.0	86.9
+5	11.5	87.4
cb.	12.8	86.1
+8	8.6	90.3
1/2	7.9	91.0
c	6.1	92.8
1/6	5.7	93.2
cb	5.7	93.2
So.	4.7	294.2

150' E

So	3.7	295.2
+5	4.3	94.6
cb	4.2	94.7
1/2	3.9	95.0
c	3.7	95.2
1/4	5.0	93.9
+3	5.9	293.0

+10

cb

+6

No.

No.

+9

cb

+6

+8

1/4

c

1/4

cb

+5

So.

So

+7

cb

1/4

c

1/6

+9

cb

+4

No

7.9	291.0
8.2	90.7
7.0	91.9
8.6	290.3

185' E

4.3	294.6
4.7	94.2
5.9	93.0
5.3	93.6
4.5	94.4
4.2	94.6
3.6	95.3
3.5	95.4
4.0	94.9
3.9	95.0
2.3	296.6

212' E

2.0	296.9
3.0	95.9
3.2	95.7
2.8	96.7
3.0	95.9
2.3	95.6
4.5	94.4
4.1	94.8
3.7	95.2
3.3	295.6

250' E

No.	2.7	296.2
# +11	2.8	96.1
cb	3.1	95.5
1/4	3.0	95.9
c	2.3	96.7
1/4	2.5	96.4
cb	2.6	96.5
+5	2.2	96.7
So.	0.9	298.0

295' E

So.	+0.2	98.7
+5	0.8	99.1
cb	0.9	99.0
+2	1.1	97.5
1/4	0.5	99.4
c	0.5	99.5
1/4	0.8	99.1
+3	2.5	97.4
+10	2.1	97.5
cb	1.1	98.8
No.	0.6	298.3

300' E = Wt. Louisiana (Graded)

No.	0.6	98.3
cb	0.9	98.0
+2	2.4	296.5

+10

+11	1/4	c	1/4	+10
cb	So.	T.P.	13.0d	311.12
			11.80	310.92

E. L. LOUISIANA

So.	9.0	301.9
cb	9.1	1.8
+6	9.1	1.8
+7	10.8	300.1
1/4	10.6	0.3
+9	8.3	2.6
c	9.5	1.5
1/4	9.6	1.3
cb	9.9	1.0
No.	9.9	1.0

3' E

No.	8.4	2.5
cb	8.1	2.8
1/4	7.9	3.0
+6	7.9	3.0

2.2	296.7
0.8	98.1
0.7	98.1
0.3	98.6
0.4	98.5
1.0	97.9
0.1	98.8
+0.3	98.7
0.78	298.08
11.80	299.32 =

.12

310.9

+9	6.0	304.9
c	5.7	52
+4	6.0	4.9
+9	9.1	1.8
1/4	10.2	.7
+5	10.8	300.1
+7	8.8	2.1
cb	8.6	2.5
So.	7.9	3.0

18' E

So	7.0	3.9
cb	7.6	3.5
+5	7.6	3.5
+6	8.3	2.6
1/4	8.3	2.6
c	5.9	5.0
1/4	7.3	3.6
cb	7.5	3.4
No	7.4	3.5

50' E

No.	5.1	5.8
cb	4.8	6.1
1/4	4.9	6.2
c	4.6	6.3
1/4	5.1	5.8
cb	5.1	5.5

So.

So

cb

1/4

c

+5

1/4

cb

No.

No.

cb

1/4

c

1/4

cb

So.

TP.

So.

cb

1/4

c

1/4

cb

No

52

75' E

36

42

38

33

41

36

33

27

100' E

27

25

24

25

26

29

27

0.42

150' E

85

85

81

86

78

81

78

305.7

207.3

6.7

7.1

7.6

6.8

7.3

7.6

207.2

308.2

8.6

8.5

8.6

8.3

8.1

309.2

310.50

310.6

10.6

11.0

10.5

11.3

11.0

311.3

8.62 319.12

165' E

No.	7.0	312.1
cb	7.2	11.9
1/4	6.8	12.3
c	6.6	12.5
1/2	7.3	11.8
+3	7.9	11.2
cb	8.0	11.1
So.	8.2	10.9

200' E

So.	6.8	12.3
cb	6.7	12.4
+7	6.8	12.3
1/4	5.7	13.4
+3	5.2	13.9
c	5.0	14.1
1/2	5.7	13.4
cb	6.0	13.1
No.	5.8	13.3

225' E

No.	5.1	14.0
cb	5.2	13.9
1/4	4.8	14.3
c	4.6	14.5
1/2	5.2	13.9
+6	5.7	13.4
cb	5.7	13.4
So.	5.6	13.5

275' E

So.	3.8	315.3
cb	3.6	15.3
+10	3.7	15.4
1/4	3.3	15.8
c	3.5	15.3
1/2	3.2	15.7
cb	3.1	16.0
No.	3.0	16.1

290' E

No.	2.3	16.8
cb	2.7	16.4
1/4	3.2	15.9
c	3.7	15.4
1/2	3.2	15.7
cb	3.4	15.7
So.	3.1	316.0

300' E = W L. TEXAS ST (Graded)

So.	2.9	16.2
+10	3.2	15.9
d	3.6	15.5
1/4	3.3	15.8
c	2.9	16.2
1/2	2.9	16.2
cb	2.9	16.2
+12	2.2	16.9
No.	1.8	317.3

E. L. TEXAS

No.		0.9	318.2
cb		1.3	17.8
+d		1.9	17.2
1/2		1.8	17.3
c		1.7	17.4
1/2		2.2	16.9
cb		2.3	16.8
So.		1.9	17.2
T.P.	6.05	322.94	2.23
		4' E	
So.		4.6	318.3
cb		5.0	317.9
1/2		5.6	17.3
c		5.2	17.7
1/4		5.5	17.4
+10		5.2	17.7
cb		4.6	18.3
No.		4.3	18.6
		25' E	
No.		4.2	318.7
cb		4.5	18.4
1/2		5.1	17.8
c		4.8	18.1
1/4		5.0	17.9
cb		4.7	18.2
So.		5.2	317.7

correct here on H.I. SE.
316.89 = 316.91 TEXAS

50' E

So.	50	317.9
cb	4.9	18.0
1/4	5.0	17.9
c	4.8	18.1
1/2	4.9	18.0
cb	4.7	18.2
No.	4.4	18.5

100' E

No.	51	317.8
cb	5.1	17.8
1/2	5.2	17.7
c	5.0	17.9
1/4	5.8	17.1
cb	6.0	16.9
So.	6.5	16.4

125' E

So.	6.5	316.4
cb	6.4	16.5
1/2	5.9	17.1
c	5.2	17.7
1/4	5.0	17.9
cb	5.4	17.7
No.	5.0	17.9

175' E

No.	4.4	318.5
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cl	53	317.6
1/4	56	17.3
c	55	17.4
1/4	62	16.7
cl	66	16.3
So.	67	16.2

200' E

So.	64	316.5
cl	65	16.4
1/4	60	16.9
c	52	17.7
1/4	52	17.7
cl	52	17.7
No.	44	18.5

225' E

No.	45	318.4
cl	51	17.9
1/4	51	17.9
c	50	17.9
1/4	56	17.4
cl	64	16.5
So.	59	17.0

275' E

So.	52	17.7
cl	53	17.6
1/4	48	318.1

c	38	319.1
1/4	47	18.2
cl	46	18.3
No.	40	18.9

300' E = W.L. ARIZONA (GRADED)

No.	37	319.2
cl	45	18.4
1/4	45	18.4
c	45	18.4
1/4	50	17.9
cl	54	17.5
So.	48	18.1

E.L. ARIZONA

So.	39	319.0
+11	40	18.9
cl	47	18.2
1/4	43	18.6
c	39	19.0
1/4	37	19.2
cl	30	19.1
+3	31	19.8
No.	28	320.1

T.P. 7.99 327.99

10' E

No.	79	320.1
cl	86	319.4

2.94 320.00 - .08 NE ARIZONA

1/4	89	319.1
c	90	319.0
1/4	96	18.4
cl	97	18.3
So.	98	18.2

25' E

So.	99	18.1
cl	97	18.3
1/4	91	18.9
c	92	18.8
1/4	89	19.1
cl	83	19.7
No.	74	320.6

50' E

No.	81	319.9
cl	83	19.7
1/4	88	19.2
c	88	19.2
1/4	90	19.0
cl	96	18.4
So.	97	18.3

75' E

So.	97	18.3
cl	94	18.6
1/4	82	19.8
c	82	19.9

1/4	78	320.2
cl	80	20.0
No.	78	20.2

100' E

No.	75	20.5
cl	76	20.4
+7	79	20.1
1/4	71	20.9
c	72	20.8
1/4	83	19.7
cl	90	19.0
So.	95	318.5

125' E

So.	81	18.9
cl	86	19.4
1/4	79	20.1
c	65	21.5
1/4	65	21.5
+9	74	20.6
cl	77	20.3
No.	76	320.4

150' E

No.	66	321.4
cl	73	20.7
+5	72	20.8
1/4	57	22.3

c	5.7	322.3
1/4	6.7	21.3
cb	7.5	20.2
So.	8.5	19.5
175' E		
So.	8.3	319.7
cb	8.0	20.0
+8	7.5	20.5
1/4	6.1	21.9
+3	5.2	22.8
c	4.5	23.5
1/4	4.6	23.4
+5	6.8	21.2
cb	6.9	21.1
No.	6.3	21.7
200' E		
No.	6.3	321.7
cb	6.8	21.2
+10	6.2	21.8
1/4	4.9	23.1
+8	3.4	25.6
c	3.9	24.1
+9	4.3	23.7
1/4	5.3	22.7
cb	7.6	20.4
So.	7.8	320.2

225' E		
So.	7.5	320.5
cb	7.3	20.7
+6	6.7	21.3
1/4	4.5	23.5
c	2.9	25.1
+7	1.9	26.1
1/4	4.3	23.7
+3	5.6	22.4
cb	6.5	21.5
No.	6.0	22.0
250' E		
No.	5.9	22.1
cb	5.7	22.3
+8	5.2	22.8
1/4	4.1	23.9
+7	1.7	26.3
c	2.2	25.8
1/4	4.7	23.3
+6	6.3	21.7
cb	6.9	21.1
So.	7.0	21.0
275' E		
So.	6.1	321.9
cb	5.7	22.3
+6	5.3	322.7

1/4	3.4	324.6
+3	2.5	25.5
c	1.6	26.4
+7	1.7	26.3
1/2	4.1	23.9
cb.	5.1	22.9
No.	4.8	23.2

300.6' E = W L HAMILTON

No.	4.2	23.8
cb.	4.3	23.7
1/2	3.1	24.6
c	2.7	25.3
1/2	3.8	24.2
cb.	4.9	23.1
So.	5.5	22.5

T.P.	9.83	335.50	23.2	325.67
	W. Curb			

So.	13.0	322.5
cb.	12.1	23.4
1/2	10.9	24.6
c	9.9	25.5
1/2	10.6	24.9
cb.	11.0	24.5
No.	11.0	24.5

W. 1/4

No.	10.4	24.9
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335.50	10.7	324.8
1/4	10.1	25.4
c	9.7	25.8
1/4	10.6	24.9
cb.	11.7	23.8
So.	12.2	23.3

Center

So.	11.3	24.2
cb.	10.9	24.6
1/2	10.1	25.4
c	9.6	25.9
1/4	9.6	25.9
cb.	9.8	25.7
No.	9.7	25.8

E 1/4

No.	9.3	326.2
cb.	9.3	26.2
1/4	9.2	26.3
c	9.3	26.2
1/4	9.7	25.8
cb.	10.4	25.1
So.	11.0	24.5

E. Curb

So.	10.7	24.8
cb.	9.9	25.6
1/4	9.0	26.0

c	81	327.4
1/4	87	26.8
cb	91	26.4
No	90	26.5

E.L. HAMILTON

No	83	27.2
cb	84	27.1
1/4	81	27.4
c	82	27.3
1/4	84	27.1
cb	94	26.1
So.	10.4	325.1

36' E

So.	77	27.8
cb	79	27.8
1/4	63	29.2
+4	54	30.1
+6	73	28.2
c	71	28.4
+5	57	29.8
1/4	64	29.1
cb	60	29.5
No.	63	29.2

40' E

No.	56	29.9
+5	62	329.8

cb	59	329.6
1/4	60	29.5
c	54	30.3
+5	50	30.5
1/4	62	29.3
cb	79	27.6
So.	74	28.1

72' E

So.	55	330.0
+5	62	29.3
cb	52	30.3
1/4	44	31.1
+6	25	32.0
c	25	32.0
1/4	39	31.6
+4	46	30.9
cb	41	30.4
No.	38	331.7

28' E

No.	34	32.3
cb	36	31.9
+8	41	31.4
1/4	34	32.1
c	07	34.8
+11	36	31.9
1/4	38	331.7

cl			4.3	331.2
So.			5.6	29.9
	100' E		✓	
So.			3.3	32.2
cl			4.1	31.4
+2			3.0	332.5
T.P.	12.85	345.25	3.10	332.40
1/2			10.8	334.5
C			9.3	330.0
+6			10.0	335.3
+10			11.3	334.0
1/2			11.3	34.0
cl			10.8	34.5
No.			11.1	34.2
	119' E			
No.			9.3	36.0
cl			9.2	36.1
1/2			9.3	36.0
+2			9.9	35.4
+6			8.5	36.8
C			8.4	36.9
+8			10.0	35.3
1/2			12.3	33.0
cl			11.5	33.8
So.			11.9	333.4

				130' E
So.			11.3	334.0
+5			11.1	34.2
cl			9.1	36.2
+3			8.1	37.2
+9			8.9	36.4
+10			10.6	34.7
1/2			11.3	34.0
+9			8.6	38.7
C			8.2	37.1
1/2			8.3	37.0
cl			8.1	37.2
No.			7.8	37.5
				140' E
No.			7.1	38.2
cl			6.6	38.7
1/2			6.6	38.7
C			7.4	37.9
1/2			8.1	37.2
cl			8.2	37.1
+8			10.2	35.1
So.			10.8	34.5
				152' E
So.			9.6	35.7
cl			7.8	37.5
1/2			7.9	337.4

c	7.1	338.2
+6	6.1	39.2
1/2	4.6	40.7
+5	4.7	40.6
+9	5.9	39.4
db	6.2	39.1
No.	6.2	39.1

165' E

No.	5.3	40.0
db	5.8	39.5
+3	5.7	39.6
+6	5.0	40.3
1/2	4.2	41.1
+10	6.3	39.0
c	8.1	37.2
+1	8.3	37.0
+6	4.6	35.7
+9	6.8	38.5
1/2	7.1	38.2
db	7.7	37.6
So.	8.5	36.8

200' E

So.	4.8	40.5
db	4.7	40.6
1/2	4.1	41.2
+4	4.4	340.9

+9

c

1/2

+1

db

No.

No.

db

+7

1/2

+7

c

+2

+6

+10

1/2

db

So.

So.

db

T.P

1/2

+6

c

7.7 337.6

7.0 38.3

4.3 41.0

3.5 41.8

3.7 41.6

2.8 42.5

225' E

0.7 44.6

1.3 44.0

0.8 44.5

2.3 43.0

5.9 39.4

5.7 39.6

7.0 38.3

6.2 38.9

2.1 42.9

1.9 43.4

2.2 43.1

2.5 42.5

250' E

0.7 44.6

0.2 45.1

0.17 345.08

11.5 345.8

15.4 41.9

13.2 344.1

12.21 357.39

1/2	11.1	346.2
+5	10.1	47.2
cb	11.3	46.0
No.	10.9	46.4

260' E

No.	10.1	46.4
cb	10.5	46.8
1/2	9.3	48.0
+5	9.3	48.0
c	11.1	46.2
+5	13.1	44.2
1/2	11.1	46.2
cb	12.0	45.3
So.	12.2	45.1

275' E

So.	11.0	346.3
cb	11.4	45.9
1/2	10.1	46.9
c	9.3	48.0
1/2	9.9	47.4
cb	9.4	47.9
+6	8.7	48.6
No.	9.1	48.2

290' E

No.	8.2	49.1
+8	8.0	49.3

cb	8.5	348.8
1/2	8.5	48.8
c	9.2	48.1
1/2	9.1	48.2
cb	10.1	47.2
So.	9.9	47.4

300' E = W L OREGON (GRADED)

So.	8.3	349.0
cb	8.8	48.5
+2	9.4	47.9
1/2	8.6	48.7
c	8.4	48.9
1/2	8.1	49.2
cb	8.1	49.2
+3	7.4	49.9

SIDEWALK AND CURB IN ON So. SIDE FROM E.L. OREGON TO 100' EAST.
E.L. OREGON.

No.	7.1	350.2
No.	4.9	352.4
cb	5.3	52.0
+0.3	5.9	51.4
1/2	5.9	51.4
c	6.2	51.1
1/2	6.6	50.7
cb	6.7	50.6
	6.19	51.1 on limit
CHK B.M.	6.33	350.96 = 93

25' E		
So. cb.	6.1	351.2
1/4	5.9	51.4
+7	5.5	51.8
C	5.7	51.6
1/2	5.6	51.7
cb	5.2	52.1
+1	4.3	53.0
+10	4.1	53.2
No.	3.1	54.2
75' E		
No.	1.2	356.1
+3	2.2	55.1
cb	3.0	54.3
+3	3.6	53.7
1/4	3.9	53.4
C	4.1	53.2
1/2	4.4	52.9
So. curb.	4.0	53.3
100' E = End of Cement Curb + Walk		
So.	2.0	55.3
+12	2.3	55.0
	1.99	355.07 cement
cb	2.9	54.4
+5	3.7	53.6
1/4	3.5	53.8

C	3.0	354.3
1/4	2.9	54.4
cb	2.2	55.1
+11	0.9	56.4
No.	0.0	357.3
T.P.	11.39	367.48
150' E		
No.	9.3	358.2
+10	9.7	57.8
cb	10.9	56.6
1/4	11.5	56.0
C	11.4	56.1
1/4	12.3	55.2
+8	12.1	55.1
cb	11.9	55.6
+7	10.8	56.7
So.	10.6	56.9
168' E		
So	10.5	357.0
+7	10.5	57.0
cb	11.8	55.7
1/4	11.1	56.1
C	10.8	56.7
1/4	10.6	56.9
cb	10.3	57.2
+1	9.1	358.0

No.	8.5	359.0
200' E		
No.	8.0	59.5
+13	8.4	59.1
cb	9.5	58.0
1/4	9.5	59.7
c	10.1	57.4
1/4	10.7	56.8
cb	11.1	56.4
+8	9.7	57.8
So.	10.0	57.5

225' E

So.	9.6	357.9
+13	10.0	57.5
cb	10.6	57.0
1/4	10.1	57.4
c	9.6	57.9
1/4	9.3	58.2
cb	8.8	58.7
+1	7.5	60.0
+5	7.9	59.6
No.	7.2	60.3

250' E

No.	6.9	60.6
+13	7.3	60.2
cb	8.4	359.1

1/4	8.5	359.0
c	8.6	58.9
1/4	9.3	58.2
cb	10.0	57.5
+2	9.5	58.0
So.	9.4	58.1

275' E

So.	8.2	359.3
+13	8.4	59.1
cb	8.9	58.6
1/4	8.4	59.1
c	7.9	59.6
1/4	7.9	59.6
cb	7.8	59.7
+1	6.7	60.8
No.	6.5	361.0

300' E = W.L. 104th St (GRADED)

No.	6.2	61.3
cb	6.5	61.0
+0.1	7.3	60.2
1/4	7.7	59.8
c	7.6	59.9
1/4	7.6	59.9
cb	8.1	59.4
+0.1	7.4	60.1
So.	7.2	360.3

chk BM.

6.56

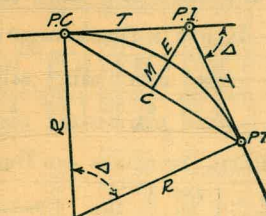
360.92 = 85 SE. IDAHO.

FOR CROSS SECTION OF LINCOLN FROM EL.

IDAHO TO BOUNDARY SEE BOOK NO. 1054 PAGE 45

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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CURVE FORMULAS

Radius = $R = \frac{50}{\sin. \frac{D}{2}}$ (1) Degree of Curve = D and $\sin. \frac{D}{2} = \frac{50}{R}$ (2)

Tangent = $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve = $L = 100 \frac{\Delta}{D}$ (4)

Middle ordinate = $M = R(1 - \cos. \frac{\Delta}{2})$ (5) = $R \text{vers } \frac{\Delta}{2}$ (6)

External = $E = T \tan \frac{\Delta}{4}$ (7) = $R \div \cos. \frac{\Delta}{2} - R$ (8) = $R \text{exsec} \frac{\Delta}{2}$ (9)

Long Chord = $C = 2 R \sin. \frac{\Delta}{2}$ (10) Δ = Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I. = Sta. 161 + 60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $\div 8\frac{1}{3} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. - $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = $158 - \text{Sta. P. C.} = 54.50$, hence offset = $7.27 \frac{(54.50 \div 100)^2}{1} = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26) = 2.16$ ft.

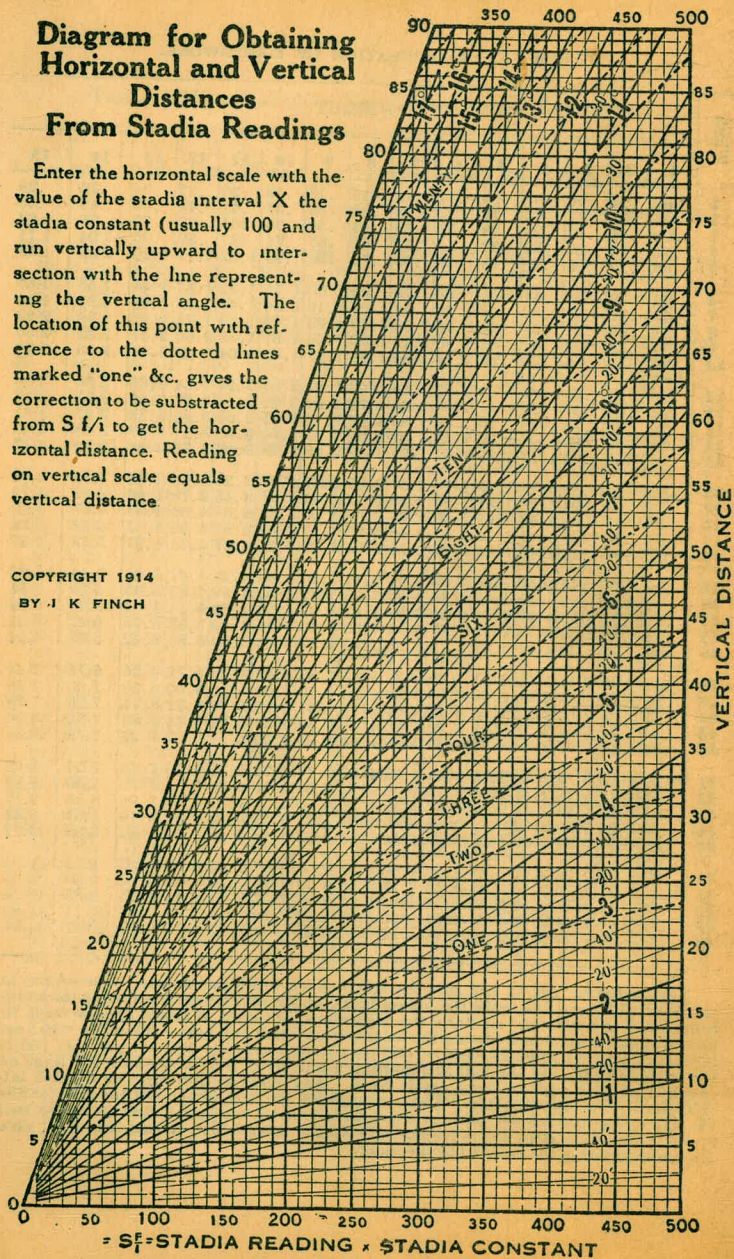
Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^\circ$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$ or $2^\circ 16.2'$, or = $2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 115.27$ and from Table V correction = .10 or $E = 115.37$. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

Diagram for Obtaining Horizontal and Vertical Distances From Stadia Readings

Enter the horizontal scale with the value of the stadia interval X the stadia constant (usually 100 and run vertically upward to intersection with the line representing the vertical angle. The location of this point with reference to the dotted lines marked "one" &c. gives the correction to be subtracted from $S f/i$ to get the horizontal distance. Reading on vertical scale equals vertical distance

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DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20-16)÷2 or 2 ft. added to 41.9=43.9. For slopes of 1 on 1 see inside of front cover.

Handwritten calculations on the left page of the notebook, showing vertical measurements and their sums. The numbers are arranged in columns, with some numbers underlined or circled. The calculations appear to be for determining the elevation of a point based on a series of measurements.

Top left column: +31, +60, +80, +105, +125, +137, +160, +175, +190, +175, +130, +145, +150, +160, +170, +185, +195, +205, +220, +235, +250, +275, +299.7

Top right column: 5, 10, 13, 28, 45, 60, 75, 90, 101, 120, 135, 150, 175, 210, 225, 250, 275

Middle left column: 10, 40, 85, 105, 145, 160, 180, 405, 225, 245, 299.7

Middle right column: 5, 15, 35, 55, 100, 135, 150, 200, 220, 235, 260, 280, 296, 300

Bottom left column: 12.40, 1+60, 4+03, 2+9, 2+11

Bottom right column: 8, 45, 63, 70, 100, 145, 145, 170, 200, 235, 255, 280

