

W

421

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 $1\frac{1}{2}$ see inside of back cover.

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421

MICROFILMED

JAN 12 1965

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Final X Sec

Items 34 11 }

Some Semi Finals

MICROFILMED

JUN 15 1982

Final sections before Hydr. fill

N3590

B.M.	2.30	554.51 ✓		552.21
T.P.	3.01	545.01 ✓	12.51	542.00 ✓
5003			16.1	522.9 ✓
015			15.3	29.7 ✓
023			6.4	38.6 ✓
030			6.2	38.8 ✓
040			5.9	39.1 ✓
050			7.0	38.0 ✓
060			7.1	37.9 ✓
070			7.7	37.3 ✓
080			7.5	37.5 ✓
090			6.5	38.5 ✓
5100			4.7	40.3 ✓
	12.51	554.51 ✓		542.00
10			8.2	46.3 ✓
15			4.2	50.3 ✓
20			4.2	50.3 ✓
30			4.4	50.1 ✓

Dotted

No. 12.51

Jan 31 - 1933
Elliott
Simpson
Soper
Remmen

554.51

N3600

5130		4.7	49.8 ✓
20		4.2	50.3 ✓
15		4.6	49.9 ✓
10		7.0	47.5 ✓
	3.01	545.01	542.00
5100		3.5	41.5 ✓
090		6.4	38.6 ✓
080		6.7	38.3 ✓
070		6.7	38.3 ✓
060		6.4	38.6 ✓
050		6.1	38.9 ✓
040		5.7	39.3 ✓
030		5.5	39.5 ✓
023		5.5	39.5 ✓
	1.68	539.29	537.61
017		7.1	32.2 ✓
014		9.5	29.8 ✓
5003		10.8	28.5 ✓

Plotted

ch. plotting in

N3610

	1.68	539.29	537.61
5003		10.6	28.7 ✓
016		9.0	30.3 ✓
		545.01	
5023		5.5	39.5 ✓
30		6.0	39.0 ✓
40		6.4	38.6 ✓
50		6.2	38.8 ✓
60		6.5	38.5 ✓
70		6.5	38.5 ✓
80		6.7	38.3 ✓
90		6.2	38.8 ✓
5100		2.0	43.0 ✓
	12.51	554.51	542.00
10		5.8	48.7 ✓
20		5.3	49.2 ✓
30		5.4	49.1 ✓

Plotted

ch. plotting in

554.51 N3620

5130 6.7 547.8 ✓
 20 7.7 46.8 ✓
 10 8.7 45.8 ✓
 5100 10.8 43.7 ✓

3.01 545.01

542.00

090 5.6 39.4 ✓
 080 6.4 38.6 ✓
 070 6.4 38.6 ✓
 060 6.4 38.6 ✓
 050 6.6 38.4 ✓
 040 6.0 39.0 ✓
 030 6.0 39.0 ✓
 023 5.2 39.8 ✓

Plotted

all starting in

1.68 539.29

537.61

15 7.2 30.1 ✓
 5003 10.4 28.9 ✓

N3630

1.68 539.29

537.61

Cont. from page 46

5003 10.6 28.7 ✓
 15 9.3 30.0 ✓

545.01

5023

5.9 39.1 ✓

030 6.0 39.0 ✓

040 6.1 38.9 ✓

050 6.5 38.5 ✓

060 6.4 38.6 ✓

070 6.5 38.5 ✓

080 5.6 39.4 ✓

090 4.9 40.1 ✓

100 2.7 42.3 ✓

12.51 554.51

542.00

10 10.1 44.4 ✓

20 8.9 45.6 ✓

30 7.8 46.7 ✓

Plotted

all starting in

	554.51	N3640		
5130		7.9	46.6 ✓	
20		8.7	45.8 ✓	
10		9.1	45.4 ✓	
100		12.2	42.3 ✓	
	3.0	545.0 ✓	542.00	
090	Plotted	4.3	40.7 ✓	
080		5.0	40.0 ✓	
070		6.2	38.8 ✓	
060		5.6	39.4 ✓	
050		6.5	38.5 ✓	
040		5.8	39.2 ✓	
030		5.7	39.3 ✓	
022		5.6	39.4 ✓	
		1.68	539.29	537.61
014			9.3	30.0 ✓
5003		10.0	29.3 ✓	

Plotting of
n

	539.29	N3650	4
5003		9.4	29.9 ✓
	545.0		
015		13.9	31.1 ✓
022		5.4	39.6 ✓
030	Plotted	5.6	39.4 ✓
040		5.5	39.5 ✓
050		5.5	39.5 ✓
060		5.4	39.6 ✓
070		6.0	39.0 ✓
080		4.7	40.3 ✓
090		5.7	39.3 ✓
100		4.8	40.2 ✓
110		0.7	44.3 ✓
		12.5	554.5
120		8.2	46.3 ✓
130		7.9	46.6 ✓

Plotting of
n

554.5 ✓

N3660

545.0 ✓

N3670

5130

6.3 48.2 ✓

120

8.6 45.9 ✓

110

12.1 42.4 ✓

3.0 545.0 ✓

542.0

100

4.9 40.1 ✓

090

5.3 39.7 ✓

080

4.7 40.3 ✓

070

5.2 39.8 ✓

060

4.6 40.4 ✓

050

4.4 40.6 ✓

040

4.8 40.2 ✓

030

5.1 39.9 ✓

022

5.0 40.0 ✓

015

13.7 31.3 ✓

5003

15.1 29.9 ✓

Plotted

Plotting
72

5003

14.3 30.7 ✓

015

13.6 31.4 ✓

022

4.8 40.2 ✓

030

4.6 40.4 ✓

040

4.3 40.7 ✓

050

3.9 41.1 ✓

060

4.0 41.0 ✓

070

4.5 40.5 ✓

080

5.0 40.0 ✓

090

4.0 41.0 ✓

100

4.3 40.7 ✓

110

3.8 41.2 ✓

12.5 554.5 ✓

542.0

115

7.3 47.2 ✓

120

5.7 48.9 ✓

130

4.6 49.9 ✓

Plotted

Plotting
72

554.5

N3680

5130

4.1 550.4 ✓

120

3.8 50.7 ✓

110

11.6 42.9 ✓

3.0

545.0

542.0

100

4.3 40.7 ✓

090

4.1 40.9 ✓

080

4.3 40.7 ✓

070

3.4 41.6 ✓

060

3.0 42.0 ✓

050

3.3 41.7 ✓

040

3.9 41.1 ✓

030

4.0 41.0 ✓

022

4.7 40.3 ✓

015

12.7 32.3 ✓

5003

13.8 31.2 ✓

at station

plotted

545.0

N3690

5003

13.9 31.1 ✓

013

12.4 32.6 ✓

022

3.9 41.1 ✓

030

3.0 42.0 ✓

040

3.1 41.9 ✓

050

2.5 42.5 ✓

060

1.8 43.2 ✓

070

2.0 43.0 ✓

080

2.5 42.5 ✓

090

2.5 42.5 ✓

100

2.7 42.3 ✓

110

2.1 42.9 ✓

12.5

554.5

542.0

120

6.2 48.3 ✓

125

4.7 49.8 ✓

130

5.3 49.2 ✓

at station

plotted

	554.5 [✓]	N 3700	
5130		5.6	48.9 ✓
120		6.2	48.3 ✓
110		10.5	44.0 ✓
100		9.6	44.9 ✓
090		9.9	44.6 ✓
080		10.3	44.2 ✓
070		10.2	44.3 ✓
060		10.0	44.5 ✓
050		10.4	44.1 ✓
040		10.5	44.0 ✓ <i>ch. putting on</i>
030		10.5	44.0 ✓
021		11.3	43.2 ✓
	3.00	545.00 [✓]	542.00
013		11.2	33.8 ✓
5003		12.5	32.5 ✓

	545.0 [✓]	N 3710	
5003		11.8	33.2 ✓
012		10.7	34.3 ✓
	12.5	554.5 [✓]	542.0
021		9.4	45.1 ✓
30		8.3	46.2 ✓
40		8.2	46.3 ✓
50		8.1	46.4 ✓
60		8.3	46.2 ✓
70		7.0	45.5 ✓ <i>ch. putting on</i>
80		9.2	45.3 ✓
90		9.3	45.2 ✓
100		7.4	47.1 ✓
110		7.5	47.0 ✓
120		5.6	48.9 ✓
130		5.8	48.7 ✓

554.5 N3720

5130	6.4	48.1 ✓
120	6.8	47.7 ✓
110	7.3	47.2 ✓
100	7.3	47.2 ✓
090	7.6	46.9 ✓
080	7.9	46.6 ✓
070	8.1	46.4 ✓
060	7.6	46.9 ✓
050	6.9	47.6 ✓
040	6.8	47.7 ✓
030	6.5	48.0 ✓
023	6.4	48.1 ✓
3.0	545.0 ✓	542.0
010	10.4	34.6 ✓
003	11.2	33.8 ✓

Plotted

at planting

545.0 N3730

5003	9.3	35.7 ✓
011	8.6	36.4 ✓
12.5	554.5 ✓	542.0
023	4.8	49.7 ✓
030	5.3	49.2 ✓
040	5.6	48.9 ✓
050	5.8	48.7 ✓
060	6.3	48.2 ✓
070	6.7	47.8 ✓
080	7.1	47.4 ✓
090	7.1	47.4 ✓
100	6.6	47.9 ✓
110	6.7	47.8 ✓
120	6.6	47.9 ✓
130	6.5	48.0 ✓

Plotted

at planting

STAVES

	554.5 ^v	N3740
5130		5.9 548.6 ✓
120		6.3 48.2 ✓
110		6.1 48.4 ✓
100		5.5 49.0 ✓
090		6.5 48.0 ✓
080		6.0 48.5 ✓
070		5.8 48.7 ✓
060		5.7 48.8 ✓
050		5.2 49.3 ✓
040		5.4 49.1 ✓
030		5.0 49.5 ✓
023		4.6 49.9 ✓
	3.0 545.0 ✓	542.0
012		7.3 37.7 ✓
5003		8.4 36.6 ✓

Plotted

at planting

	545.0	N3750
5003		7.9 37.1 ✓
009		7.6 37.4 ✓
019		1.8 43.2 ✓
	12.5 554.5	5420
024		5.2 49.3 ✓
030		4.7 49.8 ✓
040		5.3 49.2 ✓
050		5.3 49.2 ✓
060		5.2 49.3 ✓
070		5.4 49.1 ✓
080		5.5 49.0 ✓
090		5.8 48.7 ✓
100		5.2 49.3 ✓
110		5.7 48.8 ✓
120		5.7 48.8 ✓
130		4.8 49.7 ✓

Plotted

at planting

	554.5	N3760	
5130		4.2	50.3 ✓
120		4.8	49.7 ✓
110		5.0	49.5 ✓
100		4.9	49.6 ✓
090		5.2	49.3 ✓
080		4.7	49.8 ✓
070		4.8	49.7 ✓
060		4.8	49.7 ✓
050		4.7	49.8 ✓
040		5.1	49.4 ✓
030		4.4	50.1 ✓
020		4.1	50.4 ✓
	3.0	545.0	542.0
012		6.9	38.1 ✓
003		7.3	37.7 ✓

	3.0	545.0	N3770	
			542.0	
5003			6.6	38.4 ✓
006			6.7	38.3 ✓
		554.5		
018			1.9	52.6 ✓
030			2.6	51.9 ✓
040			3.0	51.5 ✓
050			2.0	52.5 ✓
060			3.4	51.1 ✓
070			3.8	50.7 ✓
080			3.9	50.6 ✓
090			4.0	50.5 ✓
100			3.8	50.7 ✓
110			4.3	50.2 ✓
120			3.8	50.7 ✓
130			3.4	51.1 ✓

554.5 N3780

5130	2.9	51.6 ✓
120	3.2	51.3 ✓
110	3.6	50.9 ✓
100	3.5	51.0 ✓
090	3.1	51.4 ✓
080	3.0	51.5 ✓
070	2.7	51.8 ✓
060	2.4	52.1 ✓
050	1.0	53.5 ✓
040	10.2	54.7 ✓
030	11.0	55.5 ✓
015	11.1	55.6 ✓
007	11.5	43.0 ✓
5003	12.1	42.4 ✓

Plotted

Staves

ok plotting

554.51 N3790

5130	2.4	52.1 ✓
120	2.6	51.9 ✓
110	2.8	51.7 ✓
100	5.0	49.5 ✓
090	2.7	51.8 ✓
T.P.	12.97	566.50 ✓
	7.31	573.40 ✓
T.P.	12.97	566.50 ✓
080	13.7	52.8 ✓
070	13.5	53.5 ✓
060	13.7	52.8 ✓
050	12.5	54.0 ✓
040	11.9	54.6 ✓
030	9.0	57.5 ✓
020	8.2	58.3 ✓
014	7.9	58.6 ✓

Plotted

Staves

ok plotting

566.50 N3800

560.02 N3810

5012

2.4 64.1 ✓

020

4.3 62.2 ✓

030

6.6 59.9 ✓

040

10.3 56.2 ✓

050

11.5 55.0 ✓

060

12.0 54.5 ✓

070

12.9 53.6 ✓

080

13.1 53.4 ✓

560.02

090

5.8 54.2 ✓

100

6.5 53.5 ✓

110

7.2 52.8 ✓

120

7.8 52.2 ✓

130

7.5 52.5 ✓

Plotted

at station n

5130

6.7 553.3 ✓

120

6.8 53.2 ✓

110

6.2 53.8 ✓

100

5.6 54.4 ✓

090

5.3 54.7 ✓

566.50

080

11.5 55.0 ✓

070

11.3 55.2 ✓

060

11.1 55.4 ✓

050

10.1 56.4 ✓

040

6.5 60.0 ✓

030

2.5 64.0 ✓

7.3/ 573.40

566.09

020

4.5 62.9 ✓

010

3.9 69.5 ✓

T.P. 12.86 585.37 0.89 572.51

Plotted

at station n

STAVES

	585.37	N3820	
5011		6.9	78.5 ✓
5020		9.1	76.3 ✓
030		15.1	70.3 ✓
	566.50		
040		1.5	65.0 ✓
050		5.0	61.5 ✓
060		8.9	57.6 ✓
070		10.0	56.5 ✓
080		10.5	56.0 ✓
	560.02		
090		5.5	54.5 ✓
5100		4.1	55.9 ✓
110		4.3	55.7 ✓
120		4.4	55.6 ✓
130		5.6	54.4 ✓

Plotter

↑ STAVES

ch. R. 10/10/10

	566.50	N 3830	
5130		8.4	58.1 ✓
120		7.2	59.3 ✓
110		6.9	59.6 ✓
100		6.8	59.7 ✓
090		6.6	59.9 ✓
080		7.9	58.6 ✓
070		5.0	61.5 ✓
060		2.5	64.0 ✓
050		10.8	67.3 ✓
	585.37		
040		16.3	69.1 ✓
030		12.1	73.3 ✓
020		4.2	81.2 ✓
010		4.2	81.2 ✓
B.M. =		6.84	578.53 578.5

Plotter

ch. R. 10/10/10

585.37

N3840

566.50

N3850

5010	4.5	80.9 ✓
20	4.5	80.9 ✓
30	5.6	79.8 ✓
40	9.2	76.2 ✓
50	9.1	76.3 ✓
53	9.1	76.3 ✓
	566.50	
60	10.5	67.0 ✓
70	1.4	65.1 ✓
80	3.1	63.4 ✓
90	3.6	62.9 ✓
100	4.0	62.5 ✓
10	5.4	61.1 ✓
20	6.1	60.4 ✓
30	7.0	59.5 ✓

P/O H/O

ch. B. ...

5130	3.3	63.2 ✓
120	3.1	63.4 ✓
110	0.4	66.1 ✓
	13.12	578.87 ✓
	0.75	565.75 ✓
100	13.3	65.6 ✓
090	11.2	67.7 ✓
080	9.5	69.4 ✓
070	5.6	73.3 ✓
	585.37	
060	9.1	76.3 ✓
050	6.0	79.4 ✓
040	5.4	80.0 ✓
030	4.3	81.1 ✓
020	3.1	82.3 ✓

P/O H/O

ch. B. ...

585.37

N3860

5050	4.5	80.9 ✓
60	4.9	80.5 ✓
70	5.4	80.0 ✓
80	7.2	78.2 ✓

Plotted

578.87

90	4.6	74.3 ✓
5100	7.3	71.6 ✓
10	9.8	69.1 ✓
20	9.9	69.0 ✓
30	13.4	65.5 ✓

Plotted

N3870

5130	7.2	71.7 ✓
5120	7.2	71.7 ✓
110	3.4	75.5 ✓
100	+4.0	79.9 ✓
090	+1.1	80.0 ✓
080	+1.8	80.7 ✓
070	+2.1	81.0 ✓

at 200 m

at 200 m

578.87

N3880

5130	+0.9	79.8 ✓
20	+1.1	80.0 ✓
10	+1.3	80.2 ✓
100	+1.6	80.5 ✓
5090	+1.8	80.7 ✓

Plotted

N3890

5130	+1.6	80.5 ✓
120	+1.9	80.8 ✓

Plotted

at 200 m

End Jan 31 - 1933

Bottom Final X sections before Hyd. fill.
 All excavation shown by these sections below
 original ground is schedule Item 11. wasted

Feb 2 - 1933

16

Elliott
 Simpson
 Soper
 Remmen

B.M. 10.53 584.58 574.05

2.74 581.84

7.15 588.99

N3315 is original ground.

N3320

4990 0.7 88.3 ✓

4980 +1.8 90.8 ✓

4980 also +11.8 60 0.8 0.6 ✓

N3330

4990 2.2 86.8 ✓

80 2.5 86.5 ✓

75 2.3 86.7 ✓

70 +2.8 91.8 ✓

60 +7.1 96.1 0.6 ✓

55 +7.1 96.1 0.6 ✓

50 +2.9 91.9 ✓

40 +3.6 92.6 ✓

4940 also +10.6 99.6 0.6 ✓

P/O H.P.

R. Elliott

R. Elliott

588,99

N3340

4990	6.2	82.8	✓
85	2.7	86.1	✓
80	3.1	85.9	✓
70	3.0	86.0	✓
60	2.8	86.2	✓
50	2.9	86.1	✓
40	3.1	83.9	✓
30	4.2	84.8	✓
20	4.4	84.6	✓
10	4.8	84.2	✓
4900	5.8	83.5	✓
4890	5.4	83.6	✓
80	5.3	83.7	✓
70	6.2	82.8	✓
60	6.3	82.7	✓
50	0.9	88.1	✓
45	+5.7	94.7	0.6 ✓

at plotting
m.

588.99

13350

9/25/34

4825

+2.9

91.9

0.6

40

8.4

80.6

50

7.9

81.1

60

2.9

81.1

70

7.2

81.8

80

6.4

82.6

90

6.2

82.8

4900

6.7

82.3

10

6.7

82.3

20

4.7

84.3

30

4.4

84.6

40

4.1

84.9

50

3.2

85.8

60

3.9

85.1

70

6.9

82.1

80

11.6

77.4

90

13.8

75.2

0.56

576.60

12.95

576.04

Handwritten note:
at 9/25/34

	576.60	N3360	
4990		5.0	71.6 ✓ <i>in 9/20/34</i>
80		4.5	72.1 ✓
70		4.7	71.9 ✓
60		3.2	73.4 ✓
	12.95	588.99	576.04
50		9.2	79.8 ✓
40		8.3	80.7 ✓
30		8.7	80.3 ✓
20		10.6	78.4 ✓
10		12.1	76.9 ✓
4900		14.0	75.0 ✓ <i>ch. R. cutting</i>
4890		14.7	74.3 ✓
80		16.2	72.8 ✓
70		14.2	74.8 ✓
60		9.6	79.4 ✓
50		9.3	79.7 ✓
40		10.0	79.0 ✓
30		10.4	78.6 ✓

588.99

N3360

4825

10.4

78.6

✓
m 9/25/20
ok starting
m

20

6.9

82.1

✓

4810

+2.0

91.0

0.6

N3370

4800

+0.2

89.2

0.6

10

12.7

76.3

✓

20

13.0

76.0

✓

30

12.0

77.0

✓

40

11.2

77.8

✓

50

14.0

75.0

✓

0.56

576.60

576.04

ok starting
m

65

10.8

65.8

✓

70

10.1

66.5

✓

80

10.1

66.5

✓

90

9.9

66.7

✓

4900

9.6

67.0

✓

10

8.7

67.9

✓

20

7.9

68.7

✓

Plohed

576.60

N3370

4730	6.9	69.7	✓
40	5.5	71.1	✓
50	5.8	70.8	✓
60	5.4	71.2	✓
70	4.9	71.7	✓
80	5.0	71.6	✓
90	5.1	71.5	✓

Plotting
M

N3380

4990	13.2	63.4	✓
80	5.8	70.8	✓
70	5.9	70.7	✓
60	5.6	71.0	✓
50	5.8	70.8	✓
40	6.6	70.0	✓
30	7.2	69.4	✓
20	8.3	68.3	✓
10	9.4	67.2	✓
4900	10.1	66.5	✓

Plotting
M

576.60

N3380

4890

10.9 65.7 ✓ *at station*

80

11.6 65.0 ✓

70

12.0 64.6 ✓

60

12.2 64.4 ✓

50

12.3 64.3 ✓

45

11.8 64.8 ✓

30

3.1 73.5 ✓

20

1.5 75.1 ✓

10

2.0 74.6 ✓

4800

2.0 74.6 ✓

4790

17.4 84.0 ✓ 0.9

*at station
at station
at station*

End Feb 2 - 1933

Semi Final Xsections. (Top Item 3)
 Material Moved below original ground was
 wasted and is Contract Item 11. Material,
 if moved after these sections is Item 2.

Feb 4 - 1933

Elliott
 Simpson
 So per
 Remman

23

B.M. 3.64 591.54 587.90

N3400 ✓

5150 11.8 79.7 ✓ *el. Station n*

5160 11.9 79.6 ✓

N3390 ✓

5135 12.6 78.9 ✓

40 10.5 81.0 ✓ *el. Station n*

50 10.7 80.8 ✓

5160 9.4 82.1 ✓

N3380 ✓

5120 12.0 79.5 ✓

25 6.7 84.8 ✓

30 7.2 84.3 ✓ *el. Station n*

40 7.3 84.2 ✓

50 8.3 83.2 ✓

60 8.2 83.3 ✓

Bottled

591.54

N3370 ✓

5160	8.0	83.5 ✓
50	7.7	83.8 ✓
40	7.4	84.1 ✓
30	6.5	85.0 ✓
20	6.2	85.3 ✓
10	5.7	85.8 ✓ 86.8 ✓
5100	12.6	78.9 ✓
5090	18.2	73.3 ✓
	N3360 ✓	
5080	16.1	75.4 ✓
85	12.1	79.4 ✓
90	11.7	79.8 ✓
5100	8.3	83.2 ✓
05	5.5	86.0 ✓
20	5.9	85.6 ✓
30	6.6	84.9 ✓
35	6.5	85.0 ✓
45	+0.7	92.2 ✓ 0.6

potted

ch. potted
mch. potted
m

ch

591.54

N3350

5133	+3.0	94.5 ✓ 0.6
130	2.0	89.5 ✓
125	5.4	86.1 ✓
20	5.7	85.8 ✓
10	5.3	86.2 ✓
5100	4.8	86.7 ✓
090	8.7	82.8 ✓
080	10.2	81.3 ✓
070	11.6	79.9 ✓
060	8.9	82.6 ✓
055	16.7	74.8 ✓
050	18.3	73.2 ✓
040	19.2	72.3 ✓
030	15.9	75.6 ✓
025	14.4	77.1 ✓
020	15.8	75.7 ✓
008	16.8	74.7 ✓
003	20.8	70.7 ✓

potted

ch. potted
m

591.54 N3340

591.54 N3320

5003	11.6	79.9 ✓
07	5.0	86.5 ✓
20	4.9	86.6 ✓ <i>4.2</i>
30	4.8	86.7 ✓ <i>4.2</i>
40	8.0	83.5 ✓ <i>4.2</i>
40 also	12.5	79.0 ✓
55	5.1	86.4 ✓ <i>4.2</i>
60	4.3	87.2 ✓ <i>4.2</i>
70	3.3	88.2 ✓ <i>4.2</i>
80	4.1	87.4 ✓ <i>4.2</i>
90	4.2	87.3 ✓ <i>4.2</i>
5100	4.4	87.1 ✓ <i>4.2</i>
10	4.2	87.3 ✓ <i>4.2</i>
20	3.3	88.2 ✓ <i>4.2</i>
27	15.6	97.1 95.1 O.G.

plotted

4.2

5120	+7.8	99.5 ✓ O.G.
5114	+1.6	93.1 ✓
5110	+0.1	91.6 ✓
5100	3.6	87.9 ✓
5090	3.6	87.9 ✓
5080	3.4	88.1 ✓
70	3.2	88.3 ✓
60	3.5	88.0 ✓ <i>4.2</i>
50	3.9	87.6 ✓ <i>4.2</i>
40	4.2	87.3 ✓ <i>4.2</i>
30	4.3	87.2 ✓ <i>4.2</i>
20	4.9	86.6 ✓ <i>4.2</i>
10	4.5	87.0 ✓ <i>4.2</i>
05	4.7	86.8 ✓ <i>4.2</i>
5003	12.2	79.3 ✓ <i>4.2</i>

plotted

4.2

bottom " "

591.54

N332.0

N332.0 Also

5003	1.7	89.8	✓
10	3.4	88.1	✓
20	3.9	87.6	✓
30	3.8	87.7	✓
40	3.4	88.1	✓
50	2.8	88.7	✓
60	3.3	88.2	✓
70	1.1	90.4	✓
80	0.0	91.5	✓
90	+1.2	92.7	✓
5100	+1.4	92.9	✓
10	+9.0	600.5	0.6

plotted

see page 422-23

plotted

5003	0.6
10	0.6
20	"
30	"
40	"
50	"
60	"
70	"
80	"
90	"
5100	"
10	"

plotted

✓

↑ vertical to original ground ↑

End Feb 4 - See note p. 23

Bottom Final X-sections Under Rock
Embankment. Item 3 - Placed in
Hydraulic Fill.

Feb 4-1933

27

618.44

N3330 ✓

B.M. 11.32 599.22 ✓ 587.90

5240

8.7 09.7 ✓

ok plotting
m

0.32 598.90 ✓

30

11.1 07.3 ✓

15.08 613.92 ✓

20

13.1 05.3 ✓

1.53 612.45 ✓

10

17.0

599 618.44 ✓

N3340 ✓

N3320 ✓

5210

21.0 597.4 ✓

395

5280

+7.2 25.6 ✓

20

19.6 98.8 ✓

70

+5.8 24.2 ✓

30

14.6 603.8 ✓

ok plotting
m

60

+1.2 19.6 ✓

40

10.0 08.4 ✓

50

3.4 15.0 ✓

50

9.3 09.1 ✓

40

6.5 11.9 ✓

60

8.4 10.0 ✓

30

7.6 10.8 ✓

70

4.4 14.0 ✓

20

8.0 10.4 ✓

N3350 ✓

5210

12.4 06.0 ✓

5210

21.4 597.0 ✓

N3330 ✓

20

21.0 97.4 ✓

5280

+1.6 20.0 ✓

30

18.3 600.1 ✓

70

2.3 16.1 ✓

40

13.1 05.3 ✓

60

2.0 16.7 ✓

50

9.3 09.1 ✓

50

6.9 11.5 ✓

60

8.2 10.2 ✓

ok plotting ok.
not m
see 395
30

plotted

plotted

ok plotting
m

ok plotting
m

If these sections show excavation below previous
finals it is Item 3 also.

Bottom Final X Sections, Item 3, placed in Hydraulic Fill

Feb. 6, 1933

28

B.M. 1.48 604.48 603.00 604.48

N 3320 ✓

5200	+6.0	105 ✓
190	0.6	03.9 ✓
180	2.3	02.2 ✓
170	1.9	02.6 ✓

at station 170

N 3330 ✓

5160	3.4	011 ✓
170	2.2	02.3 ✓
180	2.4	00.1 ✓
190	5.8	598.7 ✓
200	6.6	97.9 ✓
210	4.8	99.7 ✓

at station 170

N 3340 ✓

5200	8.2	963 ✓
190	8.5	960 ✓
180	9.1	954 ✓
170	4.6	99.9 ✓
160	5.7	98.8 ✓

at station 170

N 3350 ✓

5170	7.4	97.1 ✓
180	9.8	94.7 ✓
190	12.7	91.8 ✓
200	10.3	94.2 ✓

at station 170

N 3360 ✓

190	14.1	90.4 ✓
180	15.3	89.2 ✓

at station 170

If these sections show excavation below previous finals that excavation is Item 3 also.

Bottom of final X sections before
 start of Hyd. fill. Bottom of Item 11
 excavation on N3390 all other sections to N3630
 are Item 3

Feb 7-1933
 Elliott
 Simpson
 Soper
 Kemmen

Kemmen Notes for Contr.
 29

	N3390					N3390	
B.M.	8.67	550.92	542.25	4910	12.3	603	✓
T.P.	11.65	^{Transit} 562.27	0.30 550.62	20	10.3	623	✓
T.P.	10.99	^{level} 572.63	0.63 561.64	30	9.2	634	✓
4780		+10.2	82.8 O.G.	40	5.9	66.7	✓
85		+0.4	73.0	50	5.8	66.8	✓
90		-0.2	72.4	60	10.9	61.7	✓
800		+0.5	73.1	0.63 562.27		561.64	
10		+1.3	73.9	70	+0.8	63.1	✓
15		+2.3	74.9	80	4.7	57.6	✓
20		+0.8	73.4	90	5.9	56.4	✓
30		9.0	63.6	97	10.1	52.2	✓
40		9.2	63.4		From Here North these sections are Bottom Item 3 - Top was previous final's work		
50		9.3	63.3	10.99 572.63	N3400	561.64	
60		10.1	62.5	4.7 70	+10.1	82.7	O.G. ✓
70		10.2	62.4	80	1.9	70.7	✓
80		10.7	61.9	90	1.8	70.8	✓
90		10.2	62.4	800	0.3	72.3	✓
4900		11.0	61.6	10	2.8	69.8	✓

Plotted

Plotted

photo
 ch. 2/21/33
 m

photo
 ch. 2/21/33
 m

Item 3

572.63

N3400

4820		10.1	62.5 ✓
30		10.8	61.8 ✓
40		10.6	62.0 ✓
50		11.8	60.8 ✓ <i>at 10</i>
60		12.6	60.0 ✓
70		13.0	59.6 ✓
	0.63	562.27	561.64
80		3.2	59.1 ✓
90		3.7	58.6 ✓
4900		4.4	57.9 ✓ <i>at 10</i>
10		4.7	57.6 ✓
20		5.0	57.3 ✓
30		5.1	57.2 ✓
40		3.6	58.4 ✓
50		5.7	56.6 ✓
60		6.8	55.5 ✓
70		7.8	54.5 ✓
80		9.2	53.1 ✓
85		9.3	53.0 ✓

Plotted

Item 3

30

562.27

N3400

4990		12.7	49.6 ✓ <i>at 10</i>
97		13.3	49.0 ✓
			N3410
97		15.9	46.4 ✓
92		12.2	50.1 ✓
80		11.8	50.5 ✓
70		10.4	51.9 ✓
60		10.7	51.6 ✓
50		10.1	52.2 ✓
40		10.2	52.1 ✓
30		7.3	53.0 ✓
20		7.2	53.1 ✓
10		5.9	56.4 ✓ <i>at 10</i>
4900		4.6	57.7 ✓
90		4.5	57.8 ✓
80		4.1	58.2 ✓
70		4.0	58.3 ✓
60		3.9	58.4 ✓
50		3.1	59.2 ✓

Plotted

Item 3

562.27

N3410

4840		2.0	603 ✓	
30		1.1	612 ✓	
20		1.4	609 ✓	
10		0.1	622 ✓	
	10.79	572.63	561.64	
4795		2.2	704 ✓	
80		3.5	691 ✓	
65		4.0	81.6 0.6	
			N3420	
4760		7.4	80.0 0.6	
75		4.6	68.0 ✓	
90		4.1	68.5 ✓	
4800		10.7	61.9 ✓	
10		11.9	60.7 ✓	
20		12.0	60.6 ✓	
30		11.9	60.7 ✓	
40		12.2	60.4 ✓	
	0.63	562.27	561.64	
50		3.4	589 ✓	

Plotted

Item 3

31

562.27

N3420

4860		3.3	59.0 ✓	
70		3.4	58.9 ✓	
80		4.0	58.3 ✓	
90		5.4	56.9 ✓	
900		7.2	55.1 ✓	
10		7.5	54.8 ✓	
20		8.7	53.6 ✓	
30		10.0	52.3 ✓	
40		16.0	51.3 ✓	
50		11.2	50.6 ✓	
60		12.2	50.1 ✓	
70		12.7	49.6 ✓	
80		13.2	49.1 ✓	
90		12.9	49.4 ✓	
97		16.2	46.1 ✓	
			N3430	
4997		18.9	43.4 ✓	
92		14.6	47.7 ✓	
80		14.7	47.6 ✓	

Plotted

Plotted

Item 3

562.27

N3430

4970		14.0	48.3 ✓
60		13.4	48.9 ✓
50		12.7	49.6 ✓
40		12.0	50.3 ✓
30		11.6	50.7 ✓
20		10.7	51.6 ✓
10		9.2	53.1 ✓
4900		7.8	54.5 ✓
90	Plotted	3.0	59.3 ✓
80		4.7	57.6 ✓
70		3.3	59.0 ✓
60		3.1	59.2 ✓
50		2.7	59.6 ✓
40		1.9	60.4 ✓
30		1.9	60.4 ✓
20		2.3	60.0 ✓
10		1.6	60.7 ✓
4800		10.99	572.62
4900		11.4	61.2 ✓

Item 3

32

572.62

N3430

4790		10.8	61.8 ✓
4890		4.8	67.8 ✓
80		5.3	67.3 ✓
70		5.5	67.1 ✓
60		4.4	68.2 ✓
50	Plotted	2.6	70.0 ✓
40		1.4	74.0 ✓
30		1.0	73.6 ✓
20		1.0	74.6 ✓
14		110.0	82.6 0.6
4710			
4720			N3440
10		19.8	8.24 0.6
20		1.7	70.9 ✓
30		3.1	69.5 ✓
40	3.3	69.3 ✓	
50	3.8	68.8 ✓	
60	5.1	67.5 ✓	
75	5.7	66.9 ✓	
	5.3	67.3 ✓	

ok plotting m

ok plotting m

Item 3

572.62

N3440

4780		9.0	63.6 ✓
90		9.8	62.8 ✓
800		11.9	60.7 ✓
10		12.3	60.3 ✓
20		12.9	59.7 ✓
30		12.3	60.3 ✓
40		12.3	60.3 ✓
50		13.1	59.5 ✓
	0.63	562.27	561.64
60	Plotted	3.3	59.0 ✓
70		4.9	57.4 ✓
80		6.2	56.1 ✓
90		7.3	55.0 ✓
4900		9.0	53.3 ✓
10		10.1	52.2 ✓
20		11.6	50.7 ✓
30		13.3	49.0 ✓
B.M.	5.61	547.86	542.25
40		0.0	47.9 ✓

Item 3

33

547.86

N3440

4950		1.4	46.5 ✓
60	Plotted	1.7	46.2 ✓
70		2.1	45.8 ✓
80		2.6	45.3 ✓
84		2.8	45.1 ✓
97		9.2	38.7 ✓
		572.62	N3450
4687		78.5	81.1 ✓
90		44.7	77.3 ✓
700	Plotted	0.4	72.2 ✓
10		1.3	71.3 ✓
20		2.3	70.3 ✓
30		2.7	69.9 ✓
40		4.8	67.8 ✓
50		6.8	65.8 ✓
60		6.5	66.1 ✓
70		8.2	64.4 ✓
80		12.9	59.7 ✓

Item 3

	572.62	N3450	
4790		12.7	59.9 ✓
	0.63	562.27	561.64
800		3.1	59.2 ✓
10		2.6	59.7 ✓ <small>rec 392 36 12/28</small>
20		2.8	59.5 ✓
30		2.6	59.7 ✓
40		3.2	59.1 ✓
50		3.7	58.6 ✓
60		3.7	58.6 ✓
70		5.6	56.7 ✓
80		8.0	54.3 ✓
90		9.6	52.7 ✓
4900		10.6	51.7 ✓
10		11.5	50.8 ✓
20		11.4	50.9 ✓
B.M.	5.61	547.86	542.25
30		2.5	45.4 ✓
40		2.5	45.4 ✓
50		3.6	44.3 ✓

Item 3

34

	547.86	N3450	
4960		4.1	43.8 ✓
70		4.1	43.8 ✓
77		5.1	42.8 ✓
85		8.3	39.6 ✓ <small>ch planting m</small>
90		13.8	34.1 ✓
97		14.1	33.8 ✓
		N3460	
	1.75	539.20	537.45
4997		8.1	31.1 ✓
90		8.3	30.9 ✓
82		6.7	32.5 ✓
B.M.	5.23	547.48	542.25 <small>9/24/51 ch planting m</small>
4980		12.8	34.7 ✓
70		6.2	41.3 ✓ <small>394 37 Lorner m</small>
60		6.8	40.7 ✓
50		6.6	40.9 ✓
40		6.8	40.7 ✓
30		3.8	43.7 ✓

Item 3

547.48

N3460

4920 0.9 46.6 ✓

9.18 559.93 550.75

10 11.0 48.9 ✓

900 9.6 50.3 ✓

90 7.4 52.5 ✓

80 6.2 53.7 ✓

70 3.9 56.0 ✓

60 2.9 57.0 ✓

50 1.8 58.1 ✓

40 1.3 58.6 ✓

30 1.0 58.9 ✓

20 0.7 59.2 ✓

10 0.0 59.9 ✓

4800 10.7 60.6 ✓

N3470

4800 10.2 60.1 ✓

10 0.9 59.0 ✓

20 1.6 58.3 ✓

30 2.4 57.5 ✓

4997

Item 3

35

559.93

N3470

4840 2.5 57.4 ✓

50 2.6 57.3 ✓

60 3.2 56.7 ✓

70 4.4 55.5 ✓

80 6.2 53.7 ✓

90 7.4 52.5 ✓

900 9.9 50.0 ✓

10 12.4 47.5 ✓

5.23 547.48 542.25

20 2.9 44.6 ✓

30 7.7 39.8 ✓

40 9.6 37.9 ✓

50 9.8 37.7 ✓

60 9.4 38.1 ✓

67 9.5 38.0 ✓

1.75 539.20 537.45

73 8.7 30.5 ✓

80 10.5 28.7 ✓

90 11.9 27.3 ✓

4997 10.1 29.1 ✓

P/O

sh. p. 294

P/O

sh. p. 294

sh. p. 294
in Book 38

Item 3

539.20

N3480

4997

11.9 27.3 ✓

90

11.7 27.5 ✓

80

11.9 27.3 ✓

71

8.7 30.5 ✓

5.23 547.48

542.25

4967

10.9 36.6 ✓

60

11.3 36.2 ✓

50

11.3 36.2 ✓

40

10.7 36.8 ✓

30

8.4 39.1 ✓

20

3.1 44.4 ✓

9.18 559.93

550.75

10

12.6 47.3 ✓

4900

9.9 50.0 ✓

90

6.7 53.2 ✓

80

5.2 54.7 ✓

70

4.4 55.5 ✓

60

3.9 56.0 ✓

Plotted

324
used carrier Ele. 41

at Reading

Item 3

36

559.93

N3480

4850

2.5 57.4 ✓

40

2.6 57.3 ✓

30

2.6 57.3 ✓

20

2.2 57.7 ✓

10

1.5 58.4 ✓

4800

0.0 59.9 ✓

N3490

4800

0.6 59.3 ✓

10

1.5 58.4 ✓

20

2.1 57.8 ✓

30

2.5 57.4 ✓

40

2.9 57.0 ✓

50

3.1 56.8 ✓

60

4.3 55.6 ✓

70

4.5 55.4 ✓

80

5.2 54.7 ✓

90

6.1 53.8 ✓

4900

9.5 50.4 ✓

10

11.6 48.3 ✓

Plotted

ch. pattern

ch. pattern

Item 3

547.48

N3490

4920	2.5	450
30	7.3	402
40	10.7	368
50	11.5	360
60	11.4	361
67	13.3	342

1.75 539.20

537.45

72	10.3	289
80	11.0	282
90	11.7	275
4997	11.6	276

N 3500

4997	11.7	275
90	11.5	277
80	11.2	280

37

547.48

N3500

4970	14.2	333
60	11.8	357
50	11.4	361
40	10.7	36.8
30	7.2	403
20	3.5	440

9.18 559.93

550.75

10	12.5	474
4900	10.0	499
90	6.2	537
80	5.5	544
70	4.7	552
60	4.6	553
50	3.4	565
40	3.3	566
30	2.5	574
20	1.8	581
10	1.5	58.4
4800	0.8	59.1

Item 3

38

559.93

N3510

N3510

4800 1.2 587 ✓

2.21 539.66 537.45

10 1.3 58.6 ✓

4975 10.6 291 ✓

20 1.2 58.7 ✓

80 12.0 277 ✓

30 2.3 57.6 ✓

90 11.9 278 ✓

40 3.3 56.6 ✓

97 11.8 279 ✓

50 3.9 56.0 ✓

60 4.5 55.4 ✓

N3520

70 5.0 54.9 ✓

4997 11.4 283 ✓

80 5.9 54.0 ✓

90 11.2 285 ✓

90 6.6 53.3 ✓

80 11.6 281 ✓

4900 10.4 49.5 ✓

75 10.1 29.6 ✓

5.23 547.48 542.25

10 1.0 46.5 ✓

5.23 547.48 542.25

20 3.6 43.9 ✓

4968 13.9 33.6 ✓

30 5.6 41.9 ✓

60 11.9 35.6 ✓

40 9.4 38.1 ✓

50 11.5 36.0 ✓

50 11.3 36.2 ✓

40 8.9 38.6 ✓

60 12.5 35.0 ✓

30 5.6 41.9 ✓

70 13.6 33.9 ✓

20 2.5 45.0 ✓

10 1.5 46.0 ✓

plotted

plotted

plotted

plotted

plotted

		N3520			559.93	N3530
	9.18	559.93	550.75	4860		4.7 55.2 ✓
4900		10.8	491 ✓	70		5.7 54.2 ✓
90		6.2	53.2 ✓	80		6.2 53.7 ✓
80		6.1	53.8 ✓	90		6.7 53.2 ✓
70		5.4	54.5 ✓	4900		11.3 48.6 ✓
60		4.6	55.3 ✓		5.23 547.48	542.25
50		3.6	56.3 ✓	10		1.0 46.5 ✓
40		3.2	56.7 ✓	20		1.9 45.6 ✓
30		2.4	57.5 ✓	30		4.9 42.6 ✓
20		2.0	57.9 ✓	40		8.7 38.8 ✓
10		1.7	58.2 ✓	50		11.5 36.0 ✓
4800		1.3	58.6 ✓	60		12.2 35.3 ✓
			N3530	66		13.5 34.0 ✓
4800		1.1	58.8 ✓		2.21 539.66	537.45
10		1.7	58.2 ✓	70		9.0 30.7 ✓
20		1.9	58.0 ✓	80		11.8 27.9 ✓
30		2.5	57.4 ✓	90		11.8 27.9 ✓
40		3.0	56.9 ✓	97		11.8 27.9 ✓
50		3.7	56.2 ✓			

plotted

plotted

plotted

plotted

plotted

Item 3
539.66

N3540

4997	10.8	289 ✓
90	10.9	288 ✓
80	10.9	288 ✓
70	9.4	303 ✓

5.23 547.48 542.25

4963 13.8 337 ✓

60 13.0 345 ✓

50 11.9 356 ✓

40 9.0 385 ✓

30 5.4 421 ✓

20 2.3 452 ✓

10 1.0 465 ✓

9.18 559.93 550.75

4900 11.3 486 ✓

90 7.0 529 ✓

80 6.1 538 ✓

70 5.4 545 ✓

60 4.8 551 ✓

50 4.0 559 ✓

40 3.2 567 ✓

40

559.93

N3540

4830 2.5 574 ✓

20 2.2 577 ✓

10 1.7 582 ✓

4800 1.1 588 ✓

N3550

4800 1.3 586 ✓

10 1.8 581 ✓

20 1.9 580 ✓

30 2.5 574 ✓

40 3.2 567 ✓

50 4.0 559 ✓

60 4.9 550 ✓

70 5.6 543 ✓

80 6.2 537 ✓

90 6.6 533 ✓

4900 10.8 491 ✓

10 13.4 465 ✓

5.23 547.48 542.25

20 2.6 449 ✓

plotted

plotted

plotted

plotted

plotted

Item 3

	547.48	N3550	
4930		5.0	42.5 ✓
90		9.4	38.1 ✓
50		12.4	35.1 ✓
60		13.9	33.6 ✓
	2.21	539.66	537.45
70		8.0	31.7 ✓
80		9.7	30.0 ✓
90		10.8	28.9 ✓
97		10.8	28.9 ✓
		N3560	
4997		10.6	29.1 ✓
90		10.4	29.3 ✓
80		9.8	29.9 ✓
70		7.5	32.2 ✓
	5.23	547.48	542.25
4965		14.9	32.6 ✓
60		13.2	34.3 ✓
50		12.0	35.5 ✓
40		9.5	38.0 ✓

plotted

plotted

plotted

	547.48	N3560	
4930		4.9	42.6 ✓
20		2.4	45.1 ✓
	9.18	559.93	550.75
10		13.2	46.7 ✓
4900		10.8	49.1 ✓
90		6.7	53.2 ✓
20		6.0	53.9 ✓
70		5.7	54.2 ✓
60		5.0	54.9 ✓
50		4.3	55.6 ✓
40		3.5	56.4 ✓
30		2.8	57.1 ✓
20		2.0	57.9 ✓
10		1.6	58.3 ✓
4800		1.2	58.7 ✓
		N3570	
		1.1	58.8 ✓
10		1.5	58.4 ✓
20		2.2	57.7 ✓

plotted

plotted

plotted

Item 3

	559.93	N 3570
4830		2.9 570 ✓
40		3.8 561 ✓
50		4.7 552 ✓
60		5.3 546 ✓
70		5.8 541 ✓
80		6.1 538 ✓
T.P.	5.14 559.37	5.70 554.23
90		6.2 532 ✓
4900		9.4 500 ✓
10		11.9 475 ✓
	5.23 547.48	542.25
20		2.2 453 ✓
30		5.0 425 ✓
40		8.4 391 ✓
50		10.6 369 ✓
60		11.4 361 ✓
70		14.6 329 ✓
	2.21 539.66	537.45
80		9.9 298 ✓

plotted

plotted

539.66 N 3570

	539.66	N 3570
4990		10.9 288 ✓
97		10.3 29.4 ✓
		N 3580
4997		10.4 29.3 ✓
90		11.0 287 ✓
80		9.9 29.8 ✓
75		8.0 31.7 ✓
	5.23 547.48	542.25
4970		10.2 373 ✓
60		10.8 36.7 ✓
50		10.3 37.2 ✓
40		8.6 38.9 ✓
30		4.9 42.6 ✓
20		2.2 45.3 ✓
10		0.0 47.5 ✓
	5.14 559.37	554.23
4900		10.0 49.4 ✓

plotted

42
plotted

plotted

Item 3

43

559.37

N 3580

4890	7.5	519 ✓
80	5.8	536 ✓
70	5.3	541 ✓
60	5.0	544 ✓
50	4.2	552 ✓
40	3.3	561 ✓
30	2.3	571 ✓
20	1.5	579 ✓
10	0.8	586 ✓
4800	0.5	589 ✓

plotted

N 3590

4800	0.5	589 ✓
10	0.9	585 ✓
20	1.6	578 ✓
30	2.3	571 ✓
40	3.4	560 ✓
50	4.2	552 ✓
60	4.6	548 ✓
70	6.0	534 ✓

plotted

559.37

N 3590

4880	6.7	527 ✓
90	8.0	514 ✓
4900	10.0	494 ✓
10	12.0	474 ✓
5.23	547.48	542.25
20	2.8	447 ✓
30	5.5	420 ✓
40	8.4	391 ✓
50	9.5	380 ✓
60	9.6	379 ✓
67	9.9	376 ✓

plotted

2.21

539.66

537.45

70	5.7	340 ✓
80	10.1	296 ✓
90	11.0	287 ✓
97	10.9	288 ✓

N 3600

4997	10.5	292 ✓
90	11.0	287 ✓

plotted

Item 3

539.66

N3600

4980 10.0 297 ✓

70 5.4 34.3 ✓

5.23 547.48 542.25

4967 9.2 38.3 ✓

60 9.1 38.4 ✓

50 8.9 38.6 ✓

40 8.7 38.8 ✓

30 4.8 42.7 ✓

20 2.7 44.8 ✓

10 0.8 46.7 ✓

5.14 559.37 554.23

4900 10.3 49.1 ✓

90 9.3 50.1 ✓

80 5.9 53.5 ✓

70 5.6 53.8 ✓

60 4.8 54.6 ✓

50 4.2 55.2 ✓

40 3.5 55.9 ✓

44

559.37

N3600

4830 2.6 56.8 ✓

20 1.7 57.7 ✓

10 1.1 58.3 ✓

4800 0.4 59.0 ✓

N3610

4800 0.5 58.9 ✓

10 1.1 58.3 ✓

20 1.9 57.5 ✓

30 2.5 56.9 ✓

40 3.6 55.8 ✓

50 4.1 55.3 ✓

60 4.6 54.8 ✓

70 4.2 55.2 ✓

80 5.9 53.5 ✓

90 7.6 51.8 ✓

4900 9.8 49.6 ✓

10 12.3 47.1 ✓

5.23 547.48 542.25

20 2.6 44.9 ✓

plottedplotted

ok plotting m

ok plotting m

ok plotting m

Item 3

45

547.48

N 3610

4930	4.4	43.1 ✓
40	6.8	40.7 ✓
50	8.7	38.8 ✓
60	8.7	38.8 ✓
67	8.5	39.0 ✓

2.21 539.66

537.45

70	5.3	34.4 ✓
75	8.5	31.2 ✓
80	10.0	29.7 ✓
90	10.6	29.1 ✓
97	10.4	29.3 ✓

N 3620

4997	10.4	29.3 ✓
90	10.8	28.9 ✓
80	10.6	29.1 ✓
75	8.5	31.2 ✓
71	5.3	34.4 ✓

5.23 547.48

542.25

4968	8.7	38.8 ✓
60	8.5	39.0 ✓
50	8.5	39.0 ✓

547.48

N 3620

4940	7.3	40.2 ✓
30	4.5	43.0 ✓
20	2.1	45.4 ✓
10	+0.1	47.6 ✓

5.14 559.37

554.23

4900	10.4	49.0 ✓
90	8.8	50.6 ✓
80	5.5	53.9 ✓
70	4.8	54.6 ✓
60	4.0	55.4 ✓
50	4.3	55.1 ✓
40	3.8	55.6 ✓
30	2.8	56.6 ✓
20	2.0	57.4 ✓
10	1.1	58.3 ✓

4800

0.3 59.1 ✓

N 3630

4800	0.7	58.7 ✓
10	1.3	58.1 ✓

plotted

eh plotting m

plotted

eh plotting m

eh plotting

Bottom Item 3

559.37

N 3630

N 3630

4820	2.1	57.3 ✓
30	2.8	56.6 ✓
40	3.5	55.9 ✓
50	4.1	55.3 ✓
60	4.1	55.3 ✓
70	4.5	54.9 ✓
80	3.9	55.5 ✓
90	6.5	52.9 ✓
4900	8.8	50.6 ✓
10	10.7	48.7 ✓
20	13.0	46.4 ✓
5.23	547.48	542.25
30	3.5	44.0 ✓
40	7.6	39.9 ✓
50	8.3	39.2 ✓
60	8.4	39.1 ✓
67	8.2	39.3 ✓

plotted

ch plotting m

Continued in Book 422 page 5

2.21	539.66	537.45
4971	5.4	34.3 ✓
75	8.7	31.0 ✓
80	10.6	29.1 ✓
90	11.0	28.7 ✓
97	10.7	29.0 ✓

plotted

ch plotting m

Cont. page 3

End Feb 7 - 1933

End Schedule Item 3

Final X Sections under Hyd. Fill
Bottom Item 11 top Item 3

B.M.	3.14	581.64		578.50
	12.63	586.66	7.61	574.03
	10.90	576.99	0.57	586.09
			N3810	
4700			10.6	864 ✓
10			7.1	89.9 ✓
20			8.8	88.2 ✓
30			4.5	92.5 ✓
40			5.4	91.6 ✓
50			5.4	91.6 ✓
60			6.1	90.9 ✓
70			5.5	91.5 ✓
80			1.4	95.6 ✓
90			12.4	99.4 ✓
4800			13.3	600.3 ✓
10			13.8	00.8 ✓
20			14.7	01.7 ✓
30				0.6
40				0.6
50				0.6

plotted

plotted

Feb 7-1933

47

596.99

N3810

4860				0.6
74		+0.4	97.4 ✓	
80		+1.5	98.5 ✓	
70		+3.9	00.9 ✓	
4900				0.6
			N3800	
4920		7.7	89.3 ✓	
10		3.3	93.7 ✓	
4800		0.9	96.1 ✓	
90		2.3	94.7 ✓	
80		3.1	93.9 ✓	
70		3.5	93.5 ✓	
60		4.3	92.7 ✓	
50		4.3	92.7 ✓	
40		4.0	93.0 ✓	
30		4.5	92.5 ✓	
20		5.1	91.9 ✓	
10		5.1	91.9 ✓	
4800		5.3	91.7 ✓	

plotted

plotted

plotted

596.99 N3800

4790	5.7	91.3 ✓
80	5.7	91.1 ✓
70	6.0	91.0 ✓
60	6.1	90.9 ✓
50	6.2	90.8 ✓
40	8.2	88.8 ✓
30	9.0	88.0 ✓
20	9.9	87.1 ✓
10	12.6	84.4 ✓
4700	10.1	86.9 ✓
T.P.	8.81	588.18

plotted

ph. 8/2/33
M

Continued on Page 50

End Feb 7 - 1933

Final X sections under rock
 Bottom Item 3 - (Top Item 3 was on ground)
or previous finds)

Night Feb 7 1933

49

		N3980			
B.M.	2.80	631.43	628.63	5200	
5200		3.2	28.2	5190	
10		6.7	24.7		
20		8.3	23.1	5190	
		N3970 ✓		200	
5200		7.7	23.7		
T.P.	1.07	621.21	620.14	5200	
10		3.3	1.79	190	
		N3960 ✓		180	
5210		5.6	15.6		
5200		0.8	20.4		
		N3950 ✓			
5210		6.3	14.9		
5200		4.2	17.0		
5190		0.5	20.7		
		N3940 ✓			
5190		4.9	16.3		
200		10.0	11.2		
210		7.6	13.6		

plotted

9/1/34
 at station
 N 3980

at station
 N 3950

at station
 N 3955

at station
 N 3955
 (check on
 station book for
 N)

		N3930			
	11.07	621.21	620.14	11.29	
	12.2	609.0			
	9.7	115			
	N3920 ✓				
	13.8	074			
	16.4	04.8			
	N3910 ✓				
	18.5	02.7			
	18.8	02.4			
	19.5	01.7			

plotted

at station
 N

at station
 N

at station
 N

Continued from page 4.8
 X sections under Hydraulic fill.
 Bottom Item 11 top Item 3

Feb 8 - 1933 Reiman for Cont.
 Elliott
 Simpson
 Soper
 Hammen

50

T.P	5,24	593.42	588.18		593.42	N3790
			N3790	4880		70.5 939 ✓
4710		19.4	740 ✓	90		71.3 947 ✓
20		14.6	788 ✓	4900		6.5 86.9 ✓
30		13.6	798 ✓	4903		6.9 86.5 ✓
40		9.6	838 ✓			
50		6.7	86.7 ✓			N3780
60		8.2	85.2 ✓	4880		12.4 81.0 ✓
70		5.4	88.0 ✓	20		9.3 84.1 ✓
80		2.8	90.6 ✓	60		6.7 86.7 ✓
90		1.3	92.1 ✓	50		4.0 89.4 ✓
4800		1.3	92.1 ✓	40		2.6 90.8 ✓
10		1.3	92.1 ✓	30		3.8 89.6 ✓
20		1.6	91.8 ✓	20		4.8 88.6 ✓
30		1.3	92.1 ✓	10		7.8 85.6 ✓
40		1.2	92.2 ✓	4800		9.1 84.3 ✓
50		0.6	92.8 ✓	4790		7.4 86.0 ✓
60		0.1	93.3 ✓	80		11.0 82.4 ✓
70		0.0	93.4 ✓	0.0	578.40	15.02 578.40

plotted

ch. plotting m

plotted

ch. plotting m

ch. plotting m

	578.40	N3780	
4770		+1.2	79.6 ✓
60		2.9	75.5 ✓
50		4.4	74.0 ✓
40		6.0	72.4 ✓
30		6.1	72.3 ✓
4720		5.9	72.5 ✓
		N3770	
4730		6.6	71.8 ✓
40		6.8	71.6 ✓
50		6.6	71.8 ✓
60		6.4	72.0 ✓
70		6.2	72.2 ✓
80		6.0	72.4 ✓
90		5.3	73.1 ✓
4800		4.9	73.5 ✓
10		3.8	74.6 ✓
20		1.5	76.9 ✓
30		+1.2	79.6 ✓
40		0.4	78.0 ✓

plotted

plotted

plotted

	578.40	N3770	
4850		1.3	77.1 ✓
60		2.8	75.6 ✓
70		3.7	74.7 ✓
80		3.9	74.5 ✓
90		3.8	74.6 ✓
4900		3.5	74.9 ✓
95		3.4	75.0 ✓
		T.P.	
	0.82	566.20	13.02 565.38
10		+6.1	72.3 ✓
20		+1.4	67.6 ✓
30		1.1	65.1 ✓
40		5.8	60.4 ✓
50		8.3	57.9 ✓
60		9.0	57.2 ✓
66		9.8	56.4 ✓

plotted

plotted

		N3770		578.40		N3760	
	11.45	550.36	538.91	4900		3.2	75.2 ✓
4973			6.3 44.1 ✓	4890		3.4	75.0 ✓
80			7.6 42.8 ✓	80		4.3	74.1 ✓
90			10.8 39.6 ✓	70		4.9	73.5 ✓
4997			11.7 38.7 ✓	60		5.2	73.2 ✓
				50		5.5	72.9 ✓
			N3760	40		5.5	72.9 ✓
4997			12.5 37.9 ✓	30		5.7	72.7 ✓
90			11.8 38.6 ✓	20		5.9	72.5 ✓
80			10.1 40.3 ✓	10		6.2	71.7 ✓
72			8.8 41.6 ✓			7.6	70.8 ✓
66		566.20	12.6 53.6 ✓	4800		7.1	71.3 ✓
60			11.9 54.3 ✓	4790		6.3	72.1 ✓
50			11.4 54.8 ✓	80		6.3	72.1 ✓
40			10.8 55.4 ✓	70		6.4	72.0 ✓
30			7.1 59.1 ✓	60		6.4	72.0 ✓
20			4.6 61.6 ✓	50		6.3	72.1 ✓
10			11.4 67.6 ✓	40		11.2	67.2 ✓
	0.0	578.40	578.40	30			
4905			3.9 74.5 ✓				

bottled

ok planting

ok planting

bottled

ok planting

2/8/33

53

578.40

N3750

566.20

N3750

4730

15.7 62.7 ✓

4910

+1.9 68.1 ✓ Derrick

40

12.8 65.6 ✓

4910 also

3.8 62.4 ✓

50

9.2 69.2 ✓

20

7.2 59.0 ✓

60

7.3 71.1 ✓

30

10.2 56.0 ✓

70

9.0 69.4 ✓

40

12.5 53.7 ✓

80

10.2 68.2 ✓

50

12.9 53.3 ✓

90

9.7 68.7 ✓

60

13.3 52.9 ✓

4800

8.6 69.8 ✓

65

13.6 52.6 ✓

10

6.7 71.7 ✓

B.M.

11.45

550.86

538.91

20

5.5 72.9 ✓

73

11.2 39.2 ✓

30

5.4 73.0 ✓

80

12.5 37.9 ✓

40

5.5 72.9 ✓

90

12.9 37.5 ✓

50

5.1 73.3 ✓

4997

12.5 37.9 ✓

60

5.3 73.1 ✓

N3740

70

4.7 73.5 ✓

4997

14.1 36.3 ✓

80

5.0 73.4 ✓

90

14.0 36.4 ✓

90

7.5 70.9 ✓

80

13.1 37.3 ✓

4903

3.4 75.0 ✓ Derrick

4975

11.7 38.7 ✓

0.82 566.20

565.38

70

7.4 43.0 ✓

potted

at planting

potted

at planting

at planting

566.20

N3740

4966	16.7	49.5 ✓
60	14.5	51.7 ✓
50	13.8	52.4 ✓
40	13.5	52.7 ✓
30	12.8	53.4 ✓
20	11.8	54.4 ✓
10	8.5	57.7 ✓

4900 8.8 57.4 ✓

4890 2.9 63.3 ✓

80 1.7 64.5 ✓

0.0 578.40 578.40

70 13.4 65.0 ✓

60 12.6 65.8 ✓

50 8.5 69.9 ✓

40 12.8 65.6 ✓

30 12.4 66.0 ✓

20 12.8 65.6 ✓

10 10.5 67.9 ✓

4800 9.2 69.2 ✓

plotted

plotted

578.40

N3740

4790	10.7	67.7 ✓
80	11.8	66.6 ✓
70	13.6	64.8 ✓
60	13.2	65.2 ✓
50	16.9	61.5 ✓

plotted

T.P. 7.38 581.41 574.03

N3840

1.4 80.0 ✓

+10.0 91.4 ✓

N3830

5.2 76.2 ✓

0.4 81.0 ✓

1.5 79.9 ✓

1.2 80.2 ✓

+13.0 94.4 ✓

plotted

plotted
prepared
20%
44

see 508/44
plotted

Final X Sections
 Bottom Item 3 (Top was O.G.)
 Copied from Book 408 p. 31

Feb 8 - 1933

55

632.11

N3950'

N3980'
 B.M. 3.48 632.11 628.63
 5190 1.7 30.4
 200 4.8 27.3
 10 2.3 24.8
 5220 9.2 22.9

ch. cutting in
 above O.G.

5140 +1.0 33.1
 50 3.1 29.0
 60 6.3 25.8
 70 8.3 23.8
 80 10.0 22.1
 5190 12.0 20.1

ch. fm

N3970'

5175 +1.3 33.4
 80 0.7 31.4
 90 6.7 25.4
 5200 9.3 22.8

above O.G.
 ch. cutting in

plotted

5190 16.0 16.1
 80 13.0 19.1
 70 12.3 19.8
 60 10.3 21.8
 50 7.8 24.3
 40 4.3 27.8

plotted

ch. fm

N3960'

5145 +4.2 36.3
 50 +2.7 34.8
 60 1.8 30.3
 70 3.1 29.0
 80 5.1 27.0
 90 8.3 23.8
 5200 12.0 20.1

ch. cutting in

5140 9.3 22.8
 50 10.6 21.5
 T.P. 0.71 620.88 11.94 620.17

ch. fm

620.88

N3930

5160	2.8	18.1	✓	ok
70	4.6	16.3	✓	ok
5180	7.1	13.8	✓	

N3920

5180	11.8	09.1	✓	
70	9.9	11.0	✓	ok
60	6.6	14.3	✓	
50	4.2	16.7	✓	
5140	4.1	16.8	✓	

N3910

5140	11.5	09.4	✓	
50	11.8	09.1	✓	ok
60	12.2	08.7	✓	ok
5170	15.2	05.7	✓	

N3900

5160	18.3	02.6	✓	
50	21.4	599.5	✓	ok
40	19.8	01.1	✓	

End Feb 8 - 1933

Additional structure
Excavation along core wall 56

B.M.	0.11	575.36	575.25	9/15/34
N3360			5.0	70.4
E5003				Plotted

N3370			5.3	70.1	ok
E5009					
N3370			9.1	66.3	✓
E5003					

N3380			16.1	59.3	ok
5003				58.7	ok

T.P.	0.38	563.70	12.04	563.32
------	------	--------	-------	--------

N3390			10.2	53.5	ok
5003					

3400			10.8	52.9	ok
5006					
3400			13.6	50.1	✓
5003					

T.P.	1.15	551.75	13.10	550.60
------	------	--------	-------	--------

3410			3.3	48.5	ok
5006					
N3410			5.0	46.8	✓
5003					

3420			6.4	45.4	✓
5003					
3420			4.1	47.7	✓
5006					

Item 3 Final X sections 57
Mar 23 - 1933

551.75

N 3430			
5003	plotted	8.5	43.3 ✓
3430			
5006		8.3	43.5 ✓
3430			
5008		4.6	47.2 ✓

N 3440			
5003	plotted	10.5	41.3 ✓
3450			
5003	plotted	16.0	35.8 ✓
3460			
5003		20.1	31.7 ✓

3460			
5003			
B.M.	6.39	560.80	554.41

N 3790			
5012	plotted	5.3	55.5 ✓
3790			
5003		17.6	43.2 ✓

N 3290

B.M.	9.49	level 617.68	608.19
5012		17.9	99.8 ✓
20		8.9	08.8 ✓
25		7.3	10.4 ✓
40		5.4	12.3 ✓
50		4.2	13.5 ✓
60		3.9	13.8 ✓
70		3.3	14.4 ✓
80		5.4	12.3 ✓
90		6.7	11.0 ✓
5100		8.4	09.3 ✓
10	plotted	9.4	08.3 ✓
20		9.8	07.9 ✓
30		9.2	08.5 ✓
40		6.1	11.6 ✓
50		6.4	11.3 ✓
60		6.2	11.5 ✓
70		5.4	12.3 ✓
51 80		1.7	16.0 ✓

at station m

Derrick

Item 3

	617.68	N3280	
5180		1.2	16.5 ✓
70		1.9	15.8 ✓
60		3.6	14.1 ✓
50		3.0	14.7 ✓
40		4.3	13.4 ✓
30		4.3	13.4 ✓
20		3.8	13.9 ✓
10		1.2	16.5 ✓
5100		1.0	16.7 ✓
90		2.2	15.5 ✓
80		3.1	14.6 ✓
70		3.1	14.6 ✓
60		2.9	14.8 ✓
50		4.1	13.6 ✓
40		4.9	12.8 ✓
30		5.1	12.6 ✓
25		5.5	12.2 ✓
20		7.2	10.5 ✓

Plotted

-ok plotting

617.68 N3280

	617.68	N3280	
5015		9.4	08.3 ✓
13		13.9	03.8 ✓
06		18.5	99.2 ✓
05		23.5	94.2 ✓
03		23.9	93.8 ✓
		N3270	
5003		19.9	97.8 ✓
05		19.9	97.8 ✓
06		13.1	04.6 ✓
10		8.1	09.6 ✓
15		3.6	14.1 ✓
20		3.7	14.0 ✓
30		4.3	13.4 ✓
40		4.2	13.5 ✓
50		3.8	13.9 ✓
60		2.7	15.0 ✓
70		2.9	14.8 ✓
80		1.7	16.0 ✓
90		1.9	15.8 ✓

plotted

ok plotting

ok plotting

Plotted

	level 617.68	N3270	
5100		0.9 16.8 ✓	
T.P.	11.97	0.72 616.96	
5110		11.5 17.4 ✓	
20		10.2 18.7 ✓	
30		8.7 20.2 ✓	
40		8.1 20.8 ✓	
50		8.0 20.9 ✓	
60		9.1 19.8 ✓	
70		8.2 20.7 ✓	
80		3.6 25.3 ✓	
90		4.9 24.0 ✓	

Plotted

N3260

5190		5.0 23.9 ✓	
80		4.9 24.0 ✓	
70		5.3 23.6 ✓	
60		6.0 22.9 ✓	
50		6.4 22.5 ✓	
40		7.6 21.3 ✓	
30		8.7 20.2 ✓	

Plotted

of plotting

	level 628.93	N3260	
5120		10.1 18.8 ✓	
10		10.4 18.5 ✓	
5100		6.1 22.8 ✓	
5095		2.7 26.2 ✓	Dornick
87		4.9 24.0 ✓	
80		6.6 22.3 ✓	
70		5.2 23.7 ✓	
60		7.4 21.5 ✓	Aspermet on 42-49
55		7.3 21.6 ✓	"
50		12.0 16.9 ✓	"
40		13.3 15.6 ✓	"

Plotted

level
617.68

30		3.6 14.1 ✓	
20		2.4 15.3 ✓	
14		3.4 14.3 ✓	
12		9.4 08.3 ✓	
07		13.9 03.8 ✓	
03		14.0 03.7 ✓	

of plotting

level
617.68

N3250

5003

8.7 09.0 ✓

06

8.2 09.5 ✓

10

0.4 17.3 ✓

Transit
628.93

18

9.9 19.0 ✓

20

10.8 18.1 ✓

30

11.2 17.7 ✓

40

10.9 18.0 ✓

50

8.0 20.9 ✓

T.P.

12.65

level
641.58

0.0 628.93

57

11.6 30.0 ✓

70

10.2 31.4 ✓

80

11.5 30.1 ✓

92

10.6 31.0 ✓

95

12.7 28.9 ✓

5100

13.0 28.6 ✓

08

12.4 29.2 ✓

10

level
628.93

10

7.4 21.5 ✓

level
628.93

N3250

5120

8.1 20.8 ✓

30

7.2 21.7 ✓

40

7.4 21.5 ✓

50

6.0 22.9 ✓

60

4.5 24.4 ✓

70

2.9 26.0 ✓

80

2.8 26.1 ✓

5190

3.4 25.5 ✓

level
641.58

N3240

5270

+4.2 45.8 0.6

53

5.7 35.9 ✓

50

11.1 30.5 ✓

40

11.1 30.5 ✓

30

10.2 31.4 ✓

25

9.5 32.1 ✓

20

13.3 28.3 ✓

10

12.5 29.1 ✓

5200

12.5 29.1 ✓

5190

11.9 29.7 ✓

plotted

plotted

plotted

plotted

plotted

plotted

level
641.58

N3240

5180 12.8 28.8 ✓

70 12.6 29.0 ✓

60 13.4 28.2 ✓

50 13.4 28.2 ✓

40 14.8 26.8 ✓

30 14.2 27.4 ✓

20 16.8 24.8 ✓

10 14.8 26.8 ✓

05 8.0 33.6 ✓

5100 6.7 34.9 ✓

5090 3.8 37.8 ✓

80 4.1 37.5 ✓

70 5.7 35.9 ✓

60 4.6 37.0 ✓

55 5.6 36.0 ✓

50 11.9 29.7 ✓

*
628.93

40 2.2 26.7 ✓

30 6.0 22.9 ✓

plotted.

Blotting at N.

Impruned 123 28

*
628.93

N3240

5020

6.4 22.5 ✓ *Impruned 22 48*

10 7.9 21.0 ✓ *"*

07 15.4 13.5 ✓ *Blotting at N.*

03 20.5 08.4 ✓

N3230

5003 0.4 28.5 ✓ *use*

10 0.4 28.5 ✓ *use*

20 1.1 27.8 ✓ *use same as 423 48*

level
641.58

30 14.0 27.6 ✓ *Impruned 22 48*

40 10.3 31.3 ✓ *"*

45 +2.4 44.0 ✓ *"*

50 +2.4 44.0 ✓ *"*

60 +0.6 42.2 ✓ *"*

70 +1.6 43.2 *use*

75 +2.5 44.1 *"*

80 0.1 41.5 *"*

90 0.3 41.3 *"*

plotted

Blotting at N.

Item 3 Mar 23-1933

62

641.58

N3230

N3290

5100	1.8	39.8	✓ m
05	2.2	39.4	✓
10	10.0	31.6	✓
20	11.8	29.8	✓
30	11.5	30.1	✓
40	10.3	31.3	✓
50	9.0	32.6	✓
60	8.2	33.4	✓
70	7.2	34.4	✓
80	5.9	35.7	✓
90	4.9	36.7	✓
5200	6.0	35.6	✓
10	7.5	34.1	✓
20	8.2	33.4	✓
30	9.4	32.2	✓
40	9.8	31.8	✓
5260	+4.0	45.6	0.6
Check B.M.	12.73	628.85	628.84

Plotted

check plotting m

B.M.	3.32	613.18
4980		
70		
60		
50		
4997		
4985		
80		
70		
60		
4997		
96		
93		
89		
80		
70		

plotted

plotted

plotted

N3280

N3270

609.86	
7.9	05.3 ✓
7.3	05.9 ✓
5.7	07.5 ✓
+0.2	13.4 ✓
14.3	98.9 ✓
6.2	07.0 ✓
5.6	07.6 ✓
4.6	08.6 ✓
+1.0	14.2 ✓
14.3	98.9 ✓
11.8	01.4 ✓
9.8	03.4 ✓
3.3	09.9 ✓
2.0	11.2 ✓
0.2	13.0 ✓

check plotting m

check plotting m

check plotting m

613.18

N3260

4997

9.3 03.9 ✓

B.M.

7.52 625.33

617.81

87

9.0 16.3 ✓

80

7.6 17.7 ✓

70

0.0 2.53 ✓

N3250

4997

16.6 08.7 ✓

93

16.6 08.7 ✓

93 also

7.3 18.0 ✓

90

4.7 20.6 ✓

80

2.5 22.8 ✓

75

+2.5 27.8 ✓

N3240

4981

+6.5 31.8 ✓

94

0.8 24.5 ✓

96

16.6 08.7 ✓

97

16.6 08.7 ✓

End Mar 23 - 1933

Final X sections
 (Mostly original ground, plus rocks)
 above surface

Mar 31-1933
 Mr. Elliott - Notes
 Simpson T.
 Soper H.C.
 Kemmen R.Ch.

N 3310

B.M. 7.54 623.98 ✓ 616.44

E 4740 6.0 18.0 ✓

30 4.3 19.7 ✓

20 3.1 20.9 ✓

10 3.6 20.4 ✓

4700 3.2 20.8 ✓

4690 3.6 20.4 ✓

80 6.2 17.8 ✓

70 8.5 15.5 ✓

60 8.6 15.4 ✓

50 7.8 16.2 ✓

4640 8.2 15.8 ✓

N 3300

4650 4.0 20.0 ✓

60 4.6 19.4 ✓

70 6.1 17.9 ✓

Plotted

plotted

plotted

623.98

N 3300

64

4680

7.5 16.5 ✓

90

1.7 22.3 ✓

4700

7.6 22.4 ✓

10

1.1 22.9 ✓

20

1.1 22.9 ✓

30

0.6 23.4 ✓

40

1.3 22.7 ✓

50

3.0 21.0 ✓

60

3.0 21.0 ✓

70

5.0 19.0 ✓

80

1.2 22.8 ✓

88

7.1 16.9 ✓

90

0.6 23.4 ✓

4798

7.3 16.7 ✓

4802

+10.6 34.6 ✓

10

+3.6 27.6 ✓

20

+3.7 27.7 ✓

24

2.0 22.0 ✓

30

1.4 22.6 ✓

Plotted

plotted

623.98

N3290

635.74

N3290

4940	4.2	19.8 ✓
30	4.8	19.2 ✓
20	7.2	16.8 ✓
10	9.1	14.9 ✓
4900	5.1	18.9 ✓
4890	3.5	20.5 ✓
80	3.1	20.9 ✓
70	2.5	21.5 ✓
T.P.	0.59	623.39 ✓

plotted

ok. 10/10/10

12.35 635.74 ✓

60	15.7	20.0 ✓
50	16.6	19.1 ✓
40	15.3	20.4 ✓
36	6.4	29.3 ✓
30	8.5	27.2 ✓
20	5.6	30.1 ✓
18 10	4.4	31.3 ✓
4800	3.9	31.8 ✓

ok. 10/10/10

4790	6.8	28.9 ✓
80	7.9	27.8 ✓
70	8.3	27.4 ✓
60	7.7	28.0 ✓
50	9.9	25.8 ✓
40	9.5	26.2 ✓
30	8.6	27.1 ✓
20	10.7	25.0 ✓
10	11.6	24.1 ✓

plotted

ok. 10/10/10

47.03

4700

4695

72	16.5	19.2 ✓
87	14.5	21.2 ✓
80	15.8	19.9 ✓
70	11.6	24.1 ✓
60	10.2	25.5 ✓

635.74

N3280

4670	5.3	30.4 ✓
80	11.0	24.7 ✓
90	12.0	23.7 ✓
4700	12.2	23.5 ✓
10	10.2	25.5 ✓
20	7.4	28.3 ✓
30	4.9	30.8 ✓
40	4.4	31.3 ✓
50	4.3	31.4 ✓
60	4.0	31.7 ✓
70	4.0	31.7 ✓
80	3.5	32.2 ✓
90	-2.2	33.5 ✓
4800	+0.8	36.5 ✓
10	+4.3	40.0 ✓
13	+0.9	36.6 ✓
20	-0.2	35.5 ✓
30	3.9	31.8 ✓
40	8.1	27.6 ✓

plotted

ck. plotting m.

635.74

N3280

4850	12.2	23.5 ✓
60	10.8	24.9 ✓
70	9.6	26.1 ✓
80	8.9	26.8 ✓
90	9.8	25.9 ✓
4900	10.3	25.4 ✓
10	13.6	22.1 ✓
20	12.7	23.0 ✓
30	11.1	24.6 ✓
40	11.7	24.0 ✓
50	12.6	23.1 ✓
check	1.8	633.9
		Contractors Elev. 634.0 ±

plotted

ck. plotting m.

N4070

B.M.	11.13	675.69 ✓	664.56
	12.65	688.24 ✓	0.10 675.59 ✓
Straight to E 5160			
E 5120	14.7	73.5 ✓	
10	7.6	80.6 ✓	B.M.
5100	3.2	85.0 ✓	
5090	+1.0	89.2 ✓	

Plotted

N4080

5146	15.8	72.4 ✓	
40	12.0	76.2 ✓	
30	10.6	77.6 ✓	
27	10.6	88.8 ✓	Darnick
20	0.5	87.7 ✓	
15	+1.8	90.0 ✓	Darnick
10	0.5	87.7 ✓	
5100	+2.9	91.1 ✓	

4070 N

688.24

N4090

5100	+7.7	95.9 ✓	
5110	+1.5	89.7 ✓	
20	1.3	86.9 ✓	
30	6.1	82.1 ✓	
40	9.9	78.3 ✓	
50	12.6	75.6 ✓	
60	15.7	72.5 ✓	

Plotted

N4100

5180	17.0	71.2 ✓	
70	14.7	73.5 ✓	
60	11.8	76.4 ✓	
50	8.8	79.4 ✓	
40	5.9	82.3 ✓	
30	1.9	86.3 ✓	
20	+2.5	90.7 ✓	
10	+8.8	97.0 ✓	From 452/45

Plotted to 452

688.24

N4110

5120		+7.5	95.7	✓	
30		+2.2	90.4	✓	
40	♀ Plotted 9-22	1.5	86.7	✓	
50		4.8	83.4	✓	
60		8.2	80.0	✓	
70		11.8	76.4	✓	
80		11.2	77.0	✓	
90		12.3	75.9	✓	
5200		14.5	73.7	✓	
N4120					
5195			4.4	83.8	✓
90			5.6	82.6	✓
80		7.1	81.1	✓	
70		5.9	82.3	✓	
T.P.	12.85	699.30	✓ 139	686.85 ✓	
60		14.0	85.7	✓	
50		10.5	89.2	✓	
40		7.0	92.7	✓	
30		3.5	96.2	✓	
25		1.7	98.0	✓	

Chlorine cell

699.70

N4120

T.P.	12.34	710.99 ✓	105	698.65 ✓
5122			7.4	03.6 ✓
18			5.1	05.9 ✓
N4130				
5120			5.4	05.6 ✓
30			7.8	03.2 ✓
40		699.70	9.0	90.7 ✓
50			10.1	89.6 ✓
60			11.4	88.3 ✓
70			12.5	87.2 ✓
80			11.2	88.5 ✓
90			9.8	89.9 ✓

♀
Plotted 9-22

N4140

5190			1.3	98.4 ✓
80			1.5	98.2 ✓
710.99				
70			12.7	98.3 ✓
60			15.3	95.7 ✓
50			3.3	07.7 ✓

Substituted 4/52 Dec 1-3

710.99

N4140

5140

8.7 02.3 ✓

30

5.3 05.7 ✓

20

5.5 05.5 ✓

N4150

5120

5.6 05.4 ✓

30

5.3 05.7 ✓

40

4.8 06.2 ✓

50

7.2 03.8 ✓

60

8.6 02.4 ✓

70

6.0 05.0 ✓

80

5.4 05.6 ✓

1.76 709.23 ✓

Plotted 9-22 ✓

Subsided
Section 4820Final X Sections
Sept 20-1933

69

B.M.

12.65

682.43 ✓

669.78

11.04

692.93 ✓

0.54

681.89 ✓

5.91

698.00 ✓

0.84

692.09 ✓

Set B.M.

1.91

696.09 ✓

N3940

Straight to about 4832 ↓

4850

5.4

92.6 ✓

60

4.5

93.5 ✓

70

9.1

88.9 ✓

9-22

N3950

Straight to about 4820

4830

6.1

91.9 ✓

40

6.0

92.0 ✓

50

5.4

92.6 ✓

54

4.7

93.3 ✓

60

9.0

98.0 ✓

70

+3.1

701.1 ✓

Plotted

ch. Plotting 200



698.00

N3960

Straight to 3912 +
4820

30
40
46
50
60

Plotted
9-22

5.9 92.1 ✓
6.0 92.0 ✓
5.9 92.1 ✓
5.5 92.5 ✓
4.2 98.2 ✓
4.7 07.7 ✓

698.00

N3980

4806
10
20
27

Plotted
9-22

5.0 693.0 ✓
5.8 92.2 ✓
5.6 92.4 ✓
5.1 92.9 ✓

Plotted
9-22

N3970

4850
40
34
30
20
10

Plotted

4.0 04.0 ✓
4.8 99.8 ✓
5.7 92.3 ✓
5.9 92.1 ✓
5.8 92.2 ✓
5.1 92.9 ✓

Plotted
9-22

Resection on S. abutment
Sept 20. 1933

N3160

	0.57	705.75 ✓	705.18
4820		10.1	95.6 ✓
30		9.1	96.6 ✓
40		7.6	98.1 ✓
50		8.7	97.0 ✓
60		8.4	97.3 ✓
70		6.3	99.4 ✓
80		8.0	97.7 ✓

8

9-22

N3170

4880		12.0	93.7 ✓
70		12.9	92.8 ✓
60		13.0	92.7 ✓
50		13.3	92.4 ✓
40		12.8	92.9 ✓
30		14.5	91.2 ✓
20		13.8	91.9 ✓
10		15.0	90.7 ✓
T.P.		12.97	692.78 ✓

0.27 693.05 ✓

Plotted

checked by GPH

71

693.05

N3180

4810		8.8	84.2 ✓
20		7.1	85.9 ✓
30		5.8	87.2 ✓
40		4.6	88.4 ✓
50		4.9	88.1 ✓
60		3.8	89.2 ✓
70		3.0	90.0 ✓
80		3.4	89.6 ✓

N3190

4880		7.5	85.5 ✓
70		8.1	84.9 ✓
60		10.2	82.8 ✓
50		9.2	83.8 ✓
40		11.4	81.6 ✓
30		8.1	84.9 ✓
20		11.0	82.0 ✓
10		14.0	79.0 ✓
4800		11.3	81.7 ✓
4790		12.7	80.3 ✓

Plotted

checked by GPH
GPH

733.36 N3050

5030	3.0	730.4
40	3.5	29.9
50	7.0	26.4
60	9.8	23.6
70	10.6	22.8
80	9.9	23.5
90	10.8	22.6
5100	10.8	22.6
07	7.0	26.4

plotted 7-19-34 CBK

N3040

5100	+1.4	34.8
5090	1.4	32.0
80	2.0	31.4
70	0.7	32.7
T.P.	0.69	732.67

13.12 745.79

60	9.2	36.6	superceded 445/30
50	6.1	39.7	superceded 445/30
40	5.3	740.5	"

745.79 N3040

5030	4.8	741.0	superceded 445/30
25	5.0	40.8	" "
20	8.3	37.5	" 445/65
11	9.9	35.9	superceded 445/65
03	19.7	26.1	"

plotted 7-19-34 CBK

N3030

5003	6.7	39.1	?
08	+1.4	47.2	?
12	+1.4	47.2	superceded 445/65
20	2.3	48.5	"
30	4.2	47.6	"
40	4.8	47.0	FB 445-30 superceded 445/30
50	5.7	40.1	"
60	6.5	39.3	"
70	7.0	38.8	"
80	8.4	37.4	nee
90	10.0	35.8	need this
5100	11.6	734.2	need this

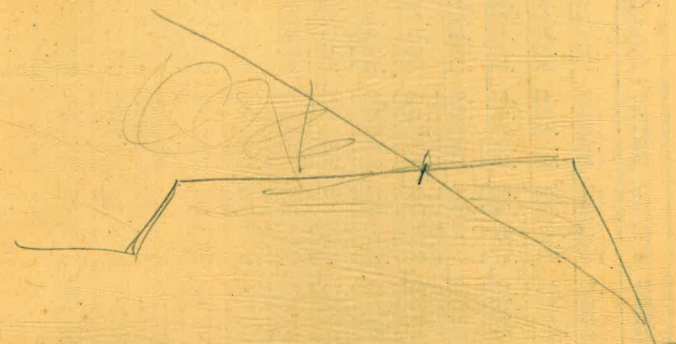
plotted 7-19-34 CBK

T.P.	12.99	758.31	0.47	745.32
check			3.73	754.58 754.5

		581.88		
	4.84	578.64	8.08	573.80
N 3600				
E 4702			5.0	73.6
N 3580				
4702			3.7	74.9
3580				
4705			3.4	75.2
3560				
4702			4.8	73.8
3560				
4714			4.2	78.4
3540				
4702			4.4	74.2
3540				
4719			3.3	75.3
3520				
4702			3.5	75.1
3520				
4719			2.7	75.9
3500				
4702			3.2	75.4
3500				
4713			3.2	75.4
3480				
4702			3.0	75.6
3480				
4704			3.0	75.6

B.M. 0.22 542.47 0 542.25
 Set B.M. 5.02 537.45

4676.92
 25
 4701.92



B.M. 12.61 721.14 708.53
 106 720.08

TABLE IX.—CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.91	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth of the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if w = 16.2 and h = 5.3, cu. yds. = 1.48 + .023 + .089 = 1.597 cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) = h, and 1/2 the roadbed = w, add the triangles formed by taking the distance out to each break in turn (=w's) by the difference between the cuts (or fills) on each side of it (=h's) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
For Single Track Embankment.



H	DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.										H
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
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.