W
422

PRIZE

BOOK

LEVEL BOOK

No. 4[illegible]

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) ÷ 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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422

MICROFILMED
JAN 12 1965

Index

Pages 1-93 Finals Semi Final X Sec. Item 3 " "

Final Xsections under rock emb.
Bottom of Item 3 Excavation
(Top Item 3 was orig ground) These sections supercede previos sections on same coords, if any.

11/8/34 Note: These Notes in Some places are levels above orig ground + was fill for Shaping of W. beach prior to begin of Hydraulic Operations. [illegible]

B.M.	12.07	615.07		603.00
		Transit		
	12.08	625.60	1.55	613.52
		Level		
	8.15	633.12	0.63	624.97

All Elev. Chk for Plotting Corr.

N3250

5200	8.5	24.6	
10	8.2	24.9	
20	8.1	25.0	
30	7.4	25.7	
40	4.3	28.8	
50	2.0	31.1	
60	+1.4	34.5	Lower Elev. 44N/2
70	+6.5	39.6	
80	+13.0	46.1	O.G

Plotted

N3260

87	+10.3	43.4	O.G
74	+4.6	37.7	44N/2
60	3.9	29.2	
50	5.3	27.8	

Feb 8-1933

Elliott
Simpson
Soper
Remmen

Kiernan for Contractor

N3260

5240	633.12	6.4	26.7
30		7.1	26.0
20		8.5	24.6
10		9.3	23.8
5200		9.4	23.7

N3270

5200		8.9	24.2
10		7.8	25.3
20		7.0	26.1
30		6.0	27.1
40		6.4	26.7
50		5.5	27.6
60		5.3	27.8
70		4.4	28.7
80		+0.7	33.8
90		+5.8	38.9
95		+9.3	42.4

44N/2

O.G

Plotted

		633.12	N3280		
5302			+7.9	641.0	O.G
290			0.0	33.1	
80			4.8	28.3	44 N
70			5.3	27.8	
60			5.3	27.8	
50				24.1	
40				21.8	
30				20.0	
20				19.3	
10				17.1	
5200				17.0	
5190				19.5	
5180				20.8	O.G
	0.63	625.60		624.97	
			N3290		
5190			13.4	12.2	
200			11.9	13.7	
10			9.8	15.8	
20			6.6	19.0	
30			5.8	19.8	
40			6.0	19.6	

Plotted

From book 408 p. 32

		625.60	N3290		
5250			3.4	22.2	
	8.15	633.12		624.97	
60			5.9	27.2	
70			5.5	27.6	
80			5.5	27.6	
90			4.4	28.7	
5300			1.4	31.7	
10			+5.6	38.7	O.G
			N3300		
12			+2.3	35.4	O.G
5306			3.5	29.6	
5300			4.3	28.8	
5290			5.5	27.6	
80			5.4	27.7	
75			5.4	27.7	
60			11.2	21.9	
T.P.	0.63	625.60	8.15	624.97	
50			6.1	19.5	
40			8.1	17.5	

Plotted

See Book 445 Pg. 1.

Book 445

N 3300

		625.60	N3300		
5230			9.2	616.4	
20			11.9	13.7	
T.P.	0.16	613.68	12.08	613.52	
10			2.2	11.5	
200			4.1	09.6	
190			4.1	09.6	
80			5.0	08.7	
70			4.7	09.0	
60			5.5	08.2	
50			3.6	10.1	
45			2.7	11.0	
40			5.8	07.9	
30			8.6	05.1	
5120			9.6	04.1	
			N3310		
				00.4	
5120			13.3	~~10.4~~	
30			11.6	02.1	
40			6.6	07.1	
45			4.4	09.3	

N 3310

		613.68	N3310		
5150			5.1	608.6	
60			6.6	07.1	
70			7.5	06.2	
80			7.2	06.5	
90			3.7	10.0	
5200			5.7	08.0	
10			4.3	09.4	
20			1.9	11.8	
	12.08	625.60		613.52	
30			11.9	13.7	
40			11.4	14.2	
50			8.8	16.8	
60			6.4	19.2	
70			3.0	22.6	
80			0.8	24.8	
90			+1.4	27.0	
300			+2.5	28.1	
10			+3.3	28.9	
20			+7.9	33.5	0.6

N3320

B.M.	0.16	613.68		613.52	
5160			10.3	603.4	
50			7.7	06.0	
40			6.5	07.2	
30			11.8	01.9	
	0.82	603.82		603.00	
5120			5.0	598.8	
			N3330		
5120			8.9	94.9	
30			8.2	95.6	
35			8.3	95.5	
40			0.5	603.3	
50			3.0	00.8	
60			3.9	599.9	
70			3.6	600.2	
80			4.0	599.8	
			N3340		
5150			8.0	95.8	
45			5.6	98.2	

Plotted

		603.82	N3340		
5140			9.9	593.9	
30			10.1	93.7	
25			10.8	93.0	
20			14.7	89.1	
			N3350		
5120			18.1	85.7	
30			12.8	91.0	
40			11.6	92.2	
50			10.2	93.6	
55			9.1	94.7	
65			1.0	602.8	Dornick
			N3360		
5170			13.7	590.1	
60			14.1	89.7	
50			14.2	89.6	
40			15.1	88.7	
35			18.0	85.8	
30			18.7	85.1	
T.P.	0.53	591.70	12.65	591.17	
Check on Steel Point in Core Wall			11.76	579.94	579.90

Plotted

Bottom of final X Sections before start of Hydraulic Fill. Bottom Item 3 (Top was previous final in Book 394)

Continued from book 421 page 46

N3640 N3640

	2.21	539.66		537.45
4972			6.0	533.7
75			8.9	30.8
80			10.2	29.5
90			10.7	29.0
97			10.3	29.4
	11.45	553.70		542.25
4967			13.4	40.3
60			13.8	39.9
50			13.6	40.1
40			12.5	41.2
30			9.3	44.4
20			7.4	46.3
10			4.4	49.3
4900			2.1	51.6
	Start Feb 9-1933			
B.M.	10.68	552.93		542.25
	7.97	560.18	0.72	552.21
4890			6.6	53.6
80			5.0	55.2

Plotted

	560.18	N3640
4870	4.5	555.7
60	4.8	55.4
50	4.8	55.4
40	4.1	56.1
30	3.5	56.7
20	2.7	57.5
10	2.0	58.2
4800	1.4	58.8
N3650	N3650	
4800	1.6	58.6
10	1.9	58.3
20	2.3	57.9
30	3.3	56.9
40	3.5	56.7
50	4.1	56.1
60	4.8	55.4
70	5.1	55.1
80	5.1	55.1
90	7.3	52.9

Plotted

N3650

		560.18	N3650	
4900			8.3	51.9
	10.68	552.93		542.25
10			3.4	49.5
20			5.0	47.9
30			7.9	45.6
40			10.6	42.3
50			12.3	40.6
60			12.4	40.5
67			11.5	41.4
	2.21	539.66		537.45
72			5.4	34.3
76			9.2	30.5
80			10.1	29.6
90			10.2	29.5
97			10.6	29.1

Plotted

N3660

			N3660	
4997			10.1	29.6
90			9.9	29.8
80			9.7	30.0
74			5.4	34.3

Plotted

N3660

		552.93	N3660	
4967			10.6	542.3
60			11.2	41.7
50			11.3	41.6
40			8.9	44.0
30			6.7	46.2
20			4.8	48.1
10			3.1	49.8
	7.97	560.18		552.21
4900.			8.3	51.9
890			6.3	53.9
80			5.2	55.0
70			5.0	55.2
60			4.5	55.7
50			4.2	56.0
40			4.2	56.0
30			3.2	57.0
20			2.3	57.9
10			2.3	57.9
4800			1.7	58.5

Plotted

N3670

	560.18	N3670	
4800		1.8	558.4
10		2.0	58.2
20		2.4	57.8
30		3.7	56.5
40		3.9	56.3
50		4.5	55.7
60		5.2	55.0
70		5.3	54.9
80		5.6	54.6
90		7.1	53.1
4900		8.0	52.2
	10.68 552.93		542.25
10		2.4	50.5
20		4.1	48.8
30		6.0	46.9
40		7.7	45.2
50		9.7	43.2
60		10.2	42.7
67		10.0	42.9

Plotted

N3670

		N3670	
	2.21 539.66		537.45
4976		7.6	32.1
80		8.6	31.1
90		8.6	31.1
97		9.1	30.6
	N3680	N3680	
4997		7.5	32.2
90		7.7	32.0
80		7.5	32.2
74		5.4	34.3
	10.68 552.93		542.25
4966		9.3	43.6
60		8.3	44.6
50		8.3	44.6
40		6.4	46.5
30		5.0	47.9
20		2.8	50.1
10		1.3	51.6

Plotted

N3680

	7.97	560.18	
4900			
890			
80			
70			
60			
50			
40			
30			
20			
10			
4800			

Plotted

N3680		
		552.21
	7.1	53.1
	6.5	53.7
	5.5	54.7
	5.4	54.8
	5.0	55.2
	4.4	55.8
	3.9	56.3
	+1.6	61.8 Dornick
	2.3	57.9
	1.7	58.5
	2.0	58.2

N3690

4900		
10		
20		
30		
35		
40		

N3690		
		560.18
	1.6	58.6
	1.4	58.8
	1.4	58.8
	+0.8	61.0 Dornick
	3.4	56.8
	4.4	55.8

N3690

4850		
60		
70		
80		
90		
4900		
10		
20		
30		
	10.68	552.93
40		
50		
60		
65		
	2.21	539.66
75		
80		
90		
97		

Plotted

N3690		
		560.18
	4.0	556.2
	4.8	55.4
	5.3	54.9
	5.6	54.6
	6.2	54.0
	7.2	53.0
	7.3	52.9
	8.6	51.6
	11.4	48.8
		542.25
	5.9	47.0
	7.0	45.9
	7.1	45.8
	7.1	45.8
		537.45
	5.4	34.3
	6.6	33.1
	6.7	33.0
	6.6	33.1

N3700

	11.45	550.36		538.91
4997			16.3	34.1
90			16.1	34.3
80			16.2	34.2
75			15.6	34.8
		552.93		
66			8.1	44.8
60			4.3	48.6
50			5.3	47.6
40			4.5	48.4
30			3.0	49.9
	7.97	560.18		552.21
20			7.9	52.3
10			6.4	53.8
4900			6.7	53.5
4890			5.9	54.3
80			5.6	54.6
70			5.2	55.0
60			4.0	56.2

Plotted

N3700

		560.18		N3700
4850			4.8	555.4
40			4.5	55.7
30			2.8	57.4
20			2.1	58.1
10			1.5	58.7
4800			0.9	59.3
		N3710		N3710
4880			6.1	54.1
90			6.7	53.5
4900			6.6	53.6
10			6.2	54.0
20			6.9	53.3
30			9.1	51.1
40			10.6	49.6
50			10.9	49.3
60			11.6	48.6
65			12.5	47.7
	11.45	550.36		538.91
74			13.9	36.5

Plotted

Plotted

N3710

550.36 N3710

4980	14.8	535.6
90	15.3	35.1
97	15.7	34.7

N3720

N3720

97	14.9	35.5
90	14.6	35.8
80	14.1	36.3
75	13.1	37.3

Plotted

7.97 560.18 552.21

4966	12.1	48.1
60	10.1	50.1
50	10.0	50.2
40	8.9	51.3
30	8.0	52.2
20	6.4	53.8
10	6.8	53.4

N3720

560.18 N3720

4900	6.8	53.4
4890	6.1	54.1
80	3.3	56.9

N3730

N3730

4900	6.4	53.8
10	6.9	53.3
20	7.2	53.0
30	7.9	52.3
40	8.6	51.6
50	9.0	51.2
60	9.9	50.3
67	12.2	48.0

Plotted

11.45 550.36 538.91

75	12.6	37.8
80	13.5	36.9
90	14.1	36.3
4997	14.5	35.9

Final X Sections Item 11
(Top was Or. Ground)

B.M.	11.48	599.48		588.00
	8.05	606.84	0.69	598.79
Set B.M.	1.13	606.84	1.13	605.71
	0.01	594.63	12.22	594.62
	0.28	582.10	12.81	581.82
	3.98	578.30	7.78	574.32
Set B.M.	6.74	581.82	3.22	575.08

N3820 N3820

4997		13.7	68.1
95		13.7	68.1
91		6.1	75.7
83		3.1	78.7
70		3.2	78.6
60		3.1	78.7
52		0.8	~~71.0~~ 81.0
49483			592.0

Plotted

N3810

4937.8			588.8
42		4.6	77.2

Plotted.

Feb 13 - 1933

11

581.82 N3810

4950		4.5	77.3
60		4.3	77.5
70		3.8	78.0
77		6.9	74.9
85		12.1	69.7
89		21.0	60.8
4997		22.3	59.5

Plotted

N3800

4997		35.9	45.9
92		26.7	55.1
83		22.9	58.9
82		17.8	64.0
74		9.8	72.0
70		7.7	74.1
60		4.5	77.3
50		4.9	76.9
40		5.4	76.4
28		5.3	76.5
49235			587.5

Plotted.

		581.82	N3790		
E 4915			5.9	75.9	
35			5.7	76.1	
50			10.8	71.0	
T. P.	1.44	570.40	12.86	568.96	
60			3.1	67.3	
70			3.0	67.4	
80			11.4	59.0	
87			17.7	52.7	
90			23.8	46.6	
94			25.4	45.0	
97			29.9	40.5	
			N3780		
4997			31.8	38.6	
92			28.4	42.0	med
85			27.2	43.2	med
81			24.0	46.4	
78			22.5	47.9	89,47.0
75			19.4	51.0	
70			17.4	53.0	med

Plotted

Plotted

		570.40	N3780		
4967			14.0	56.4	
60			9.2	61.2	
50			5.6	64.8	
40			2.5	67.9	
	6.74	581.82		575.08	
30			12.4	69.4	
20			6.6	75.2	
4910			6.7	75.1	
4897			6.4	75.4	
4895			2.4	79.4	
			11.8	570.0	
	0.0	570.0			
Hand level check on H.I.			16.2	553.8	Record 553.72

Plotted

Final X sections along
Core wall No. end.

B.M.	2.86	567.86		565.00
N3800				
E5010				
N3800		Plotted.	10.4	57.5 ✓
5005				
3800			14.7	53.2 ✓
5003			14.7	53.2 ✓
3810				
5003		Plotted	12.0	55.9 ✓
3810				
5007			6.4	61.5 ✓
3810				
5008.5			0.7	67.2 ✓
	12.25	579.64	0.47	567.39
N3820				
5003		Plotted.	6.3	73.3 ✓

Feb 14-1933
Elliott
Simpson
Soper-Remmen

Final X Sections
(Bottom Item 3-top was or. ground)

B.M.	10.20	638.83	628.63		
			N3980		
5185			7.2	31.6	Item 3 E. Item 11 W.
			N3970		
5170			4.8	34.0	Item 3 E. Item 11 W. Duplicated page 21 C&H
			N3960		
5145			2.8	36.0	Item 3 E. Item 11 W. Duplicated on page 22 C&H
			N3950		
5130			2.1	36.7	Item 3 E. Item 11 W. Duplicated on page 22 C&H.
			N3940		
5130			8.2	30.6	Above Orig. C&H
20			3.4	35.4	
10			+0.2	39.0	Item 3 E. Item 11 W.
			N3930		
5130			14.3	24.5	
20			11.8	27.0	

Plotted

plotted

plotted

plotted

Feb 14-1933
Elliott
Simpson
Soper

		638.83	N3930		
5110			9.1	29.7	
5100			5.0	33.8	
Set T.P. #1			0.07	638.76	
Set T.P. #2			12.84	625.99	
T.P. #1	4.57	643.33		638.76	
5090			7.3	36.0	
80			6.1	37.2	
5070			2.8	40.5	Item 3 E. Item 11 W.
			N3920		
5030			2.8	40.5	Item 3 E. Item 11 W.
40			3.8	39.5	
50			4.9	38.4	
60			10.3	33.0	
70			13.9	29.4	
80			15.8	27.5	
90			16.3	27.0	
#2	0.61	626.60		525.99	
5100			0.5	26.1	

Item 3

626.60 N3920

5110			3.7	22.9
20			6.8	19.8
30			7.9	18.7
			N3910	
5130			16.5	1 01 (421/56)
20			14.1	1 2.5
10			11.5	1 5.1
5100			10.6	1 6.0
5090			8.0	1 8.6
80			7.6	1 9.0
70			5.6	2 1.0
60			0.2	2 6.4
# 1	4.57	643.33		638.76
50			12.3	3 1.0
40			11.8	3 1.5
30			9.7	3 3.6
20			5.6	3 7.7
10			3.2	4 0.1 Item 3E. Item 11W.

Plotted & Plotted

Item 3 N3900 15

643.33 N3900

4995			3.5	3 9.8 Item 3E. Item 11W.
5000			6.7	3 6.6
10			9.3	3 4.0
20			11.8	3 1.5
T.P.	0.61	Transit 631.02	12.92	630.41
30			5.9	2 5.1
40			5.7	2 5.3
50			7.7	2 3.3
58			6.0	2 5.0 Dormiat
60			11.5	1 9.5
	0.61	626.60 level		625.99
T.P.	0.89	614.63	12.86	613.74
64			11.7	1 6.3
70			1.3	1 3.3
80			5.0	09.6
90			7.9	0 6.7
93			10.0	0 4.6
5100			9.1	05.5

Plotted

Feb 14-1933

N3900

		614.63	N3900		
5110			10.7	03.9	
20			12.6	02.0	
30			14.8	599.8	
40				601.1	
50				599.5	Item 11E
60				602.6	Item 3W
			N3890		
5102			19.0	595.6	Item 11E. Item 3W.
5095			17.8	96.8	
90			11.6	603.0	
80			12.7	01.7	
70			8.3	06.3	
60			3.0	11.6	
	0.61	631.02		630.41	
50			15.6	15.4	
40			9.1	21.9	Dornick
30			12.9	18.1	
20			9.0	22.0	
10			6.7	24.3	See page 44
Set B.M.			6.63	624.39	End Feb 14

Plotted

Plotted

Plotted

Item 3

Feb 15-1933

Elliott-Simpson-Soper-Temmen

N3880

B.M.	11.91	616.09		604.18
5003			1.5	14.6
10			0.0	16.1
20			2.0	14.1
30			5.3	10.8
38			7.8	08.3
40			6.1	10.0
50			8.5	07.6
60			13.1	03.0
70			16.3	599.8
80			24.1	920
86			26.6	89.5 Item 11 E. Item 3 W.
			N3870	
B.M.	8.37	606.73		598.36
5003				604.7
10			+1.1	07.8
15			+3.8	10.5 Dornick
20			+3.2	09.9 "

See page 44

Plotted

Plotted

Superseded by page 44 Dornick

Item 3

606.73 N3870

5027	+3.0	09.7	Dornick
30	2.4	04.3	
40	7.2	599.5	
50	8.2	98.5	
58	11.4	95.3	Item 11E. Item 3W.

plotted

N3860

5040	14.9	91.2	Item 11E Item 3W
30	8.6	98.1	
20	6.4	600.3	
10	5.0	01.7	
5003		598.3	

Plotted

N3850

5010	13.2	935	
14	11.5	95.2	Item 11E. Item 3W.

plotted

End of Item 3

Xsections of Upper Road on No. abutement Item 11 Excavation. Feb 15-1933

B.M.	10.21	Transit 638.84		628.63
	8.21	Level 643.81	3.24	635.60

N4070

5320	5.0	38.8	
10	4.7	39.1	
5300	4.1	39.7	
5295	4.1	39.7	
	660.61		
5278	7.8	52.8	Item 11E. Item 3W.

Plotted

643.81 N4060

5330	5.6	38.2	
20	8.3	35.5	
10	5.1	38.7	
5300	4.7	39.1	
5290	4.5	39.3	
80	4.1	39.7	
	660.61		
5266	8.0	52.6	Item 11E. Item 3W.

Plotted

Item 11

N4050

	660.61			
5260		12.3	48.3	Item 11E. Item 3 w.
	643.81			
5270		4.1	39.7	
80		4.4	39.4	
90		4.4	39.4	
5300		7.9	35.9	
10		15.5	28.3	
30		10.9	32.9	

Plotted.

N4040

5290	4.2	39.6	
80	4.3	39.5	
70	4.4	39.4	
60	4.2	39.6	
50	3.7	40.1	
40	2.3	41.5	
30	+0.2	44.0	
20	+1.1	44.9	

Plotted.

Elliott
Simpson
Soper
Remmen

Kleon

5210			
200			
5192			

plotted.

Item 11

N4040

643.81			
	3.6	40.2	
	4.1	39.7	
	3.5	40.3	
660.6			
5180	7.3	53.3	Item 11E Item 3 w

N4030

5163	6.1	54.5	Item 11E Item 3 w
643.81			
5172	3.9	39.9	
80	4.2	39.6	
90	4.7	39.1	
5200	4.6	39.2	
10	4.4	39.4	
20	4.3	39.5	
30	4.2	39.6	
40	4.5	39.3	
50	4.5	39.3	

Plotted

		643.81	N 4030		
5260			4.1	39.7	
70			4.0	39.8	
80	Plotted		6.2	37.6	above data not used
90			7.3	36.5	
			N 4020		
	10.21	638.84		628.63	
5290			9.8	29.0	
80			9.4	29.4	
70			10.6	28.2	
60			10.9	27.9	
50			11.4	27.4	
	8.21	643.81		635.60	
40			4.1	39.7	
30			4.3	39.5	
20	Plotted		4.1	39.7	
10			4.4	39.4	
5200			4.6	39.2	
5190			4.5	39.3	
80			4.5	39.3 ~~39.3~~	

Item 11

		643.81	N 4020		
5170			4.3	39.5	
60	plotted		3.8	40.0	
		660.6			
46			2.6	58.0	Item 11 E. Item 3 W.
			N 4010		
	10.21	638.84		628.63	
5280			13.2	25.6	Profile Sample from Stours - Hafs - Notes not g. nothing in
70			13.1	25.7	
60			12.9	25.9	
50			12.6	26.2	
40	Plotted		12.1	26.7	
30			11.6	27.2	
20			10.9	27.9	
10			10.3	28.5	
5200			9.5	29.3	
5190			8.7	30.1	
	8.21	643.81		635.60	
80			4.2	39.6	

Item 11

		643.81	N4010		
5170			4.0	39.8	
60	Plotted		4.2	39.6	
50			3.8	40.0	
41			0.8	43.0	
		660.6			
25			2.5	58.1	Item 11E. Item 3W.

			N4000		
	10.21	638.84	628.63		
5260			12.9	25.9	
50			12.6	26.2	
40			12.3	26.5	
30			11.9	26.9	
20			11.3	27.5	
10	Plotted		10.5	28.3	
5200			9.5	29.3	
5190			8.7	30.1	
80			7.8	31.0	
70			7.1	31.7	

			N4000		
		638.84			
5166			6.8	32.0	
	8.21	643.81	635.60		
60			3.7	40.1	
50			3.8	40.0	
40	Plotted		3.8	40.0	
27			3.2	40.6	
		671.73			
17			15.5	56.2	Item 11E. Item 3W

			N3990		
	10.21	638.84	628.63.		
5240			12.4	26.4	
30			12.3	26.5	
20			11.7	27.1	
10	Plotted		10.7	28.1	
5200			9.7	29.1	
5190			8.5	30.3	
80			7.6	31.2	

		638.84	N3990		
5170			6.7	32.1	
60			5.6	33.2	
50			4.8	34.0	
46			4.3	34.5	
	8.21	643.81		635.60	
T.P.	4.59	645.49	2.91	640.90	
40			4.9	40.6	
30			5.3	40.2	
20			5.2	40.3	
11			4.7	40.8	
06			11.1	46.6	Items 3 11 cut
		671.73			
5089			12.4	59.3	
		645.49	N3980		
5185			13.9	631.6	Item 3 E. Item 11 W.
80			13.6	31.9	
70			12.7	32.8	
60			12.0	33.5	
50			11.2	34.3	

Plotted

Plotted

Item 11

		645.49	N3980		
5140			10.1	35.4	
27			9.3	36.2	
24			4.9	40.6	
20			4.8	40.7	
10			5.0	40.5	
5100			5.4	40.1	
5093			4.8	40.7	
		671.73			
5065			8.0	63.7	Item 11 E. Item 3 W.
			N3970		
		645.49			
5170			11.5	34.0	Item 3 E. Item 11 W.
60			11.1	34.4	
50			10.5	35.0	
40			9.8	35.7	
30			9.1	36.4	
20			8.4	37.1	
10			7.7	37.8	

Plotted

Plotted

		645.49	N3970		
5100	Potted		6.7	38.8	
5099			6.0	39.5	
90			5.7	39.8	
80			5.3	40.2	
72			4.9	40.6	
		671.73			
50			6.5	65.2	Item 11 E. Item 3 W.
		645.49	N3960		
5145	Potted		9.5	36.0	Item 3 E. Item 11 W.
40			9.0	36.5	
30			8.8	36.7	
20			8.2	37.3	
10			7.6	37.9	
5100			7.1	38.4	
5090			6.5	39.0	
80			5.8	39.7	
70			5.3	40.2	
57			4.2	41.3	
		671.73			
27			4.9	66.8	Item 11 E. Item 3 W.

			N3950		
B.M.	11.53	640.16		628.63	
	4.90	644.58	0.48	639.68	
5130				36.7	Item 3 E. Item 11 W.
20	Potted		7.2	37.4	
10			6.7	37.9	
5100			6.1	38.5	
5090			5.7	38.9	
80			5.3	39.3	
70			4.9	39.7	
60			4.7	39.9	
50			4.6	40.0	
40			4.4	40.2	
30			4.4	40.2	
30 also			+8.4	53.0	
B.M.	1.12	677.20		676.08	
5007			8.6	68.6	Item 11 E

644.58 N3940

5110		6.39.0	It. 3 E. It. 11 W.
5100	6.0	38.6	
5090	5.3	39.3	
80	5.4	39.2	
70	5.2	39.4	
60	4.9	39.7	
50	4.7	39.9	
40	4.6	40.0	
30	4.7	39.9	
20	4.8	39.8	
5016	4.5	40.1	
	677.20		
4993	10.0	67.2	Item 11 E.

plotted

644.58 N3930

		40.5	Item 3 E. Item 11 W.
5070	4.7	39.9	
60	4.8	39.8	
50	4.7	39.9	
40			

plotted

644.58 N3930

5030	4.6	40.0	
20	4.7	39.9	
10	4.8	39.8	
5000	4.9	39.7	
4995	4.9	39.7	
	677.20		
4982	12.9	64.3	Item 11 E.

plotted

644.58 N3920

		40.5	It. 3 E. It. 11 W.
5030	4.7	39.9	
20	4.8	39.8	
10	4.9	39.7	
5000	5.0	39.6	
4990	5.1	39.5	
80	+ 11.2	55.8	
65			
	677.20		
46	11.3	65.9	Item 11 E.

plotted

644.58 N3910

Contour page 15

5010			40.1	Item 3E Item 11W
5000		4.7	39.9	
49 5090		4.9	39.7	
80		5.1	39.5	
70		5.1	39.5	
60		4.9	39.7	
38		+5.1	49.7	
33		+6.1	50.7	
	677.20			
27		13.8	63.4	Item 11E

Plotted

644.58 N3900

4995			39.8	Item 3E Item 11W
90		4.7	39.9	
80		5.0	39.6	
70		5.0	39.6	
60		5.1	39.5	
50		5.4	39.2	

Plotted

644.58 N3900

4940			5.5	39.1	
32			5.4	39.2	
T.P.	5.33	646.00	3.91	640.67	
B.M.	8.50	645.97	8.50	637.50	Record 637.47
	6.38	675.13		668.75	
4908			13.8	61.3	Item 11E.

Plotted

645.97 N3890

4980	6.1	39.9	Item 3E. Item 11W.
70	6.1	39.9	
60	6.4	39.6	
50	6.5	39.5	
40	6.6	39.4	
30	6.6	39.4	
20	6.6	39.4	
10	6.6	39.4	

Plotted

645.97 N3890

4900	6.4	39.6	
80	6.3	39.7	
60	6.0	40.0	
40	5.6	40.4	
20	5.1	40.9	
4800	5.3	40.7	
4782	5.1	40.9	Item 11 E. Item 3 W.

Plotted.

N3880

4810	5.2	40.8	Item 11 E. Item 3 W.
20	5.3	40.7	
40	5.3	40.7	
60	5.6	40.4	
80	5.9	40.1	

Plotted.

645.97 N3880

4900	6.1	39.9	
20	6.4	39.6	
40	6.3	39.7	
60	6.0	40.0	Item 11 W. Item 3 E.

Plotted.

N3870

4920	5.9	40.1	Item 11 W. Item 3 E.
4900	5.9	40.1	
4880	5.6	40.4	
60	5.2	40.8	Item 11 E. Item 3 W.

645.97 N3900

4760	5.2	40.8	Item 3 W. Item 11 E
70	5.4	40.6	
80	5.2	40.8	
90	5.1	40.9	
4800	5.1	40.9	
10	5.1	40.9	
21	4.9	41.1	

Plotted.

N3900

	6.38	675.13		668.75
4860			16.4	58.7
73			18.9	56.2
4884			13.5	61.6 Item 11 W.
		645.97	N3910	
4737			5.1	40.9 Jt. 11 E. Jt. 3 W
50			5.1	40.9
60			5.1	40.9
70			5.1	"
80			5.1	"
90			5.1	"
4801			4.9	41.1
		675.13		
4816			12.8	62.3

Plotted

Plotted

N3920

	645.97		Item 11 E.
4712		5.6	40.4
20		5.3	40.7
30		5.3	40.7
40		5.2	40.8
50		5.1	40.9
60		5.1	40.9
70		5.1	40.9
80		4.9	41.1
90		0.0	46.0
	666.69		
4806		2.9	63.8 Item 11 W.

N3930

645.97 N3930

4660	6.6	39.4	
70	6.8	39.2	
80	5.8	40.2	
90	5.7	40.3	
4700	5.9	40.1	
10	5.7	40.3	
20	5.5	40.5	
30	5.4	40.6	
40	5.1	40.9	
50	5.0	41.0	
60	3.9	42.1	

Plotted

666.69

4790	6.1	65.6	Item 11 W.

645.97 N3940

4660	6.5	39.5	Item 11 E
70	6.1	39.9	
80	6.4	39.6	
90	6.3	39.7	
4700	6.0	40.0	
10	5.9	40.1	
20	5.7	40.3	
30	5.3	40.7	
35	5.1	40.9	
T.P	6.66	639.31	

Plotted

666.69

4750			8.3	58.4	
T.P.	1.65	663.16	5.18	661.51	
	0.71	652.51	11.36	651.80	
			13.21	639.30	Record 639.31

End Feb 20-1953

Final X Sections
Bottom Item 3 Excavation
(Top was previous finals Book 421 p 23-26
or original ground if no previos finals)

Mar 10 - 1935
Elliott Notes
Simpson T
Soper Hd. Ch.
Remmen R. Ch

B.M.	2.72	631.56		628.84	
T.P.	0.47	619.59	12.44	619.12	
Set B.M.			11.40	608.19	
	0.51	608.70			
			12.19	596.51	
	1.00	597.51			
		w.s. 15.1			
			N 3340		
E 5010			10.4	87.1	✓
5006			18.2	79.3	✓
5003			19.5	78.0	✓
			N 3330		
5003			15.0	82.5	
5009			10.7	86.8	
20			10.7	86.8	
30			10.3	87.2	✓
40			10.6	86.9	✓
50			10.3	87.2	✓
60			10.0	87.5	✓

plotted

Plotted

	597.51	N 3330	
5070	9.3	88.2	✓
80	9.3	88.2	
5090	9.4	88.1	
5100	9.8	87.7	✓
10	6.3	91.2	✓
20	2.7	94.8	
		N 3320	
5120	+0.5	98.0	✓
10	3.0	94.5	✓
5100	5.5	92.0	✓
5090	6.2	91.3	✓
80	5.9	91.6	
70	6.2	91.3	
60	5.9	91.6	
50	7.0	90.5	
40	7.3	90.2	
30	6.7	90.8	
20	7.0	90.5	
10	7.2	90.3	
5003	16.3	81.2	✓

Plotted

Plotted

lower note

Final X Sections

Bottom Item 3 Excavation

(Top was previous finals Book 421 p 23-26 or original ground if no previos finals)

Mar 10 - 1933
Elliott Notes
Simpson T
Soper Hd. Ch.
Remmen R. Ch

B.M.	2.72	631.56		628.84	
T.P.	0.47	619.59	12.44	619.12	
Set B.M.			11.40	608.19	
	0.51	608.70			
			12.19	596.51	
	1.00	597.51			
		w.s. 15.1			
			N 3340		
E 5010			10.4	87.1	✓
5006			18.2	79.3	✓
5003			19.5	78.0	✓
			N 3330		
5003			15.0	82.5	
5009			10.7	86.8	
20			10.7	86.8	
30			10.3	87.2	✓
40			10.6	86.9	✓
50			10.3	87.2	✓
60			10.0	87.5	✓

plotted

Plotted

	597.51	N 3330	
5070	9.3	88.2	✓
80	9.3	88.2	
5090	9.4	88.1	
5100	9.8	87.7	✓
10	6.3	91.2	✓
20	2.7	94.8	
		N 3320	
5120	10.5	98.0	✓
10	3.0	94.5	✓
5100	5.5	92.0	✓
5090	6.2	91.3	✓
80	5.9	91.6	
70	6.2	91.3	
60	5.9	91.6	
50	7.0	90.5	
40	7.3	90.2	
30	6.7	90.8	
20	7.0	90.5	
10	7.2	90.3	
5003	16.3	81.2	✓

Plotted

Plotted

lower notes

Item 3

		597.51	N3310		
5003	↑		15.5	82.0	✓
5005			15.5	82.0	✓
5015			1.5	96.0	✓
20			0.8	96.7	✓
30			0.1	97.4	✓
T.P.	11.99	609.21	0.29	597.22	
40	Plotted		11.3	97.9	✓
50			11.6	97.6	✓
60			11.8	97.4	✓
70			10.5	98.7	✓
80			10.3	98.9	✓
90			10.4	98.8	✓
5100			11.4	97.8	✓
10			9.5	99.7	✓
20	↓		8.8	00.4	
			N3300		
5120	Plotted		5.5	03.7	✓
10			6.2	03.0	✓
5100			6.6	02.6	✓

	↑	609.21	N3300		
5090			5.4	03.8	✓
80			4.5	04.7	✓
70			3.5	05.7	✓
60			5.0	04.2	✓
50			4.4	04.8	✓
40			3.9	05.3	✓
30	Plotted		5.4	03.8	✓
21			5.7	03.5	✓
16			11.9	97.3	✓
09			15.0	94.2	✓
05			23.2	86.0	✓
5003	↓		23.9	85.3	✓
			N3290		
5003	Plotted		22.5	86.7	✓
5008			9.7	99.5	✓
Check B.M.			1.02	608.19	Page 28 608.19
	5.65	613.84			
Set B.M.			5.39	608.45	

Bottom Item 3 Excavation
(Top was previous finals or orig. ground)

N3290

	0.53	608.98		608.45
4997			17.7	91.3
94			16.6	92.4
94 also			10.3	98.7
83			3.9	05.1

N3300

4980			7.3	01.7
88			12.0	97.0
T.P.	0.59	596.78	12.79	596.19
89			4.3	92.5
93			5.0	91.8
97			15.6	81.2

N3310

97			12.7	84.1
95			12.4	84.4
92			5.7	91.1
90			5.2	91.6
80			1.6	95.2
70			0.0	96.8
60			+6.6	603.4

Plotted

Plotted

596.78

N3320

4955	+6.4	03.2	
60	+1.1	97.9	
70	3.7	93.1	
80	7.1	89.7	
90	8.2	88.6	
96	10.5	86.3	
4997	12.7	84.1	

N3330

4997	14.5	82.3	
91	10.2	86.6	
88	9.5	87.3	
80	11.3	85.5	
74	10.7	86.1	
70	7.1	89.7	Dorwick
65	8.6	88.2	
60	5.6	91.2	
55	2.0	94.8	
50	3.7	93.1	
40			Orig. Ground

Plotted

Plotted

		596.78	N3340		
W.S	plotted.		14.2	582.6	
4997			22.8	74.0	✓
4992			14.4	82.4	✓
			N 3350		
4997	plotted		26.0	70.8	✓
4993			25.4	71.4	✓
			N 3360		
4997	plotted.		27.6	69.2	✓
			N 3370		
4997	Plotted		29.0	67.9	✓

			N 3890		
B.M.	11.68	599.68 ✓		588.00	
			1.38	598.30 ✓	
	9.47	607.77 ✓			
4600			5.1	02.7	✓
10			4.9	02.9	✓ ✓
20	interpolate				
24	↓		+5.0	12.8	✓ 0.6.
			N 3880		
4600			4.9	02.9	
10			5.0	02.8	
20			4.7	03.1	
30			4.3	03.5	
40			3.9	03.9	
50	↓		+4.3	12.1	0.6.

Plotted

Plotted

Lower Ele. used
F.Book No. 395-47
Taken Jan. 13-33

607.77 N 3870

4600	4.7	03.1	Lower El. Book 395-47
10	4.4	03.4	
20	4.6	03.2	
30	4.7	03.1	
40	4.5	03.3	
50	4.8	03.0	
60	4.9	02.9	
70	4.1	03.7	↓
80	4.6	03.2	↓
90	2.3	05.5	↓
4702	+7.4	15.2	↓ O.G.

N 3860

4750			↓ O.G.
740	+3.9	11.7	↓
730	+3.0	10.8	↓
720	+1.1	08.9	↓
710	3.4	04.4	↓
700	4.4	03.4	

607.77 N 3860

4690	4.9	02.9	Lower El. Book 395-45
680	4.9	02.9	
670	4.5	03.3	
660	4.7	03.1	
650	4.6	03.2	

Mar 11-1933

B.M.	1.00	638.42		637.42
	0.27	625.83	12.86	625.56
	1.71	616.22	11.32	614.51

N 3850

4790	1.4	14.8	Lower El. Page 36
80	3.5	12.7	↓
70	5.7	10.5	↓
60	9.0	07.2	↓
50	10.5	05.7	↓
40	11.5	04.7	↓
30	12.0	04.2	↓
20	12.8	03.4	↓
4710	13.6	02.6	↓

		616.22	N3840		
4810	↑		1.4	14.8	✓
4800			2.8	13.4	✓
4790			4.7	11.5	✓
80			5.9	10.3	✓
70	Plotted		7.6	08.6	✓
60			9.4	06.8	✓
50			11.0	05.2	✓
40			11.8	04.4	✓
30			12.4	03.8	✓
20			12.9	03.3	✓
10			14.3	01.9	✓
4700	↓		17.0	99.2	✓
			N3830		
4800 (above O.G.)	↑		2.0	14.2	
4760 (above O.G.)			9.0	07.2	
50	Plotted		11.9	04.3	
40			13.7	02.5	
30			22.3	93.9	✓
20	↓		21.1	95.1	✓

		616.22	N3830		
4710	Plotted		19.9	96.3	✓ ✓
4700			18.8	97.4	✓ ✓
			N3820		
4710	↑		21.2	95.0	✓ ✓
20	Plotted		21.8	94.4	✓ ✓
30			23.8	92.4	✓ ✓
40			24.8	91.4	✓
50			24.1	92.1	✓
4760	↓		15.2	01.0	✓ O.G.
		March 16 - 1933			
B.M.	0.30	637.72		637.42	
Set B.M.			12.65	625.07	
	0.64	625.71			
Book #13 Set B.M.			12.90	612.81	

Bottom Item 3 final Sections
(Top was original ground)

N3810

B.M	1.07	613.88		612.81	
4910			9.6	04.3	
20			10.4	03.5	Dornick
27			11.3	02.6	Dornick
28			17.8	96.1	
4930			18.6	95.3	

N3820

4940			16.8	97.1	
30			11.7	02.2	
20			6.7	07.2	
10			4.8	09.1	
4900			2.3	11.6	
4890			6.3	07.6	
80			2.5	11.4	
B.M	0.45	625.52		625.07	
70			9.8	15.7	
60			10.0	15.5	
50			12.3	13.2	
40			12.5	13.0	

All Elev. ok for Plotting - C.B.H.

Plotted

Plotted

Plotted

Elliott
Simpson
Soper
Remmen

Mar 16 - 1933

625.52

N3820

4830		11.1	14.4	
20		13.3	12.2	
10		15.1	10.4	
4800		16.1	09.4	
4790		19.1	06.4	✓
80		22.6	02.9	✓
4770		26.0	99.5	✓

N3830

4810		10.2	15.3	
20		9.0	16.5	
30		7.9	17.6	
40		6.2	19.3	✓
50		5.3	20.2	✓
60		4.0	21.5	
70		3.2	22.3	
80		3.6	21.9	
90		6.0	19.5	✓
4900		6.0	19.5	✓

Original ground Elev. to Culvert
C.B.H.
Was original ground for Bridge Est. P.W.C.N.

Item 3

		625.52	N3830		
4910	↑		4.9	20.6	✓
20			7.1	18.4	✓
B.M.	333	616.14		612.81	
25	Posted		2.4	13.7	✓
30			2.0	14.1	✓ Dermick
35			12.3	03.8	✓
40			12.7	03.4	✓
50	↓		13.2	02.9	✓
Cont. on page 61					
			N3840		
4980	↑		18.7	97.4	✓
70			11.2	04.9	✓
60			10.7	05.4	✓
50	Posted		6.9	09.2	✓
40			4.0	12.1	✓
30			1.1	15.0	✓
		625.52			
20			5.6	19.9	✓
10			1.7	23.8	✓
4900	↓		1.7	23.8	✓

Item 3

		625.52	N3840		
4890	↑		2.3	23.2	✓
80			2.8	22.7	✓
70			3.6	21.9	✓
60	Posted		4.6	20.9	✓
50			5.7	19.8	✓
40			7.2	18.3	✓
30			8.1	17.4	✓
20			9.1	16.4	✓
10			10.3	15.2	} Course file on page 33
4800	↓		11.9	13.6	
					End Mar 16-1933
			N3850		Start Mar 17-1933
B.M.	3.41	616.22		612.81	
4997				584.0	✓
94			25.5	90.7	✓
90	Posted		21.4	94.8	✓
80			12.0	04.2	✓
70			5.2	11.0	✓
60	↓		1.5	14.7	✓

Item 3

		616.22	N3850		
4950			0.7	15.5	✓
B.M.	3.12	628.19		625.07	
40			10.1	18.1	✓
30			4.0	24.2	✓
20			4.6	23.6	✓
10			3.3	24.9	✓
4900			2.8	25.4	✓
4890			1.9	26.3	✓
80			3.2	25.0	✓
70			3.6	24.6	✓
60			3.3	24.9	✓
50			5.5	22.7	✓
40			6.2	22.0	✓
30			6.8	21.4	✓
20			5.5	22.7	✓
10			8.0	20.2	✓
4800			11.0	17.2	✓
4790			14.2	14.0	✓

Plotted

		628.19	N3860		
4760			9.5	18.7	
70			8.5	19.7	✓
80			8.9	19.3	✓
83			0.1	28.1	✓ Dornick
90			0.7	27.5	✓ "
4800			3.4	24.8	✓
10			1.6	26.6	✓
20			0.7	27.5	✓
30			+2.0	30.2	✓
33			+3.9	32.1	✓
34			+8.1	36.3	✓ Dornick
B.M.	1.55	638.97		637.42	
40			+0.8	39.8	✓ "
50			9.3	29.7	✓
60			9.1	29.9	✓
70			7.9	31.1	✓
80			4.3	34.7	✓
90			5.8	33.2	✓
4900			5.1	33.9	✓

Plotted

		level 638.97	N3860		
4910			5.6	33.4	✓
20	↑		4.5	34.5	✓
30			4.9	34.1	✓
35			6.6	32.4	✓
40	Plotted		12.7	26.3	✓
50			13.1	25.9	✓
60			15.4	23.6	✓
65			13.2	25.8	✓ Dennick
70			18.4	20.6	✓
B.M.	3.41	616.22		612.81	
74			2.2	14.0	✓
80			5.3	10.9	
87			8.3	07.9	
90			14.3	01.9	
95			16.5	99.7	
96	↓		20.5	95.7	
			N3870		
4997	Plotted		18.3	97.9	✓
96			13.9	02.3	✓

		616.22	N3870		
4987	↑		1.0	15.2	✓
B.M.	1.55	638.97		637.42	
80			19.7	19.3	✓
70			15.5	23.5	✓
60			6.9	32.1	✓
50			5.4	33.6	✓
40			0.8	38.2	✓
4930			1.0	38.0	✓
B.M.	6.73	644.15		637.42	
4850		44.2	2.9	41.3	✓
40			2.9	41.3	✓
30	Plotted		5.2	39.0	✓
20			6.3	37.9	✓
10			6.7	37.5	✓
4800			7.8	36.4	✓
4790			9.9	34.3	✓
80	↓		15.3	28.9	✓
B.M.	6.37	627.92		621.55	

Item 3

N3870

		627.92			
4770			1.5	26.4	✓
60			6.0	21.9	✓
50			8.2	19.7	✓
40			8.7	19.2	✓
30			9.0	18.9	
20			9.0	18.9	
10			9.2	18.7	

Plotted

Mar 20

N3880

B.M.	1.90	626.97		625.07	
4997			19.5	07.5	✓
95			16.1	10.9	✓
93			10.1	16.9	✓
80			+1.8	28.8	✓
	1.55	638.97		637.42	
4970			6.8	32.2	✓
B.M.	6.73	644.15		637.42	
4800			6.0	38.2	✓

Plotted

N3880

		644.15			
4790			8.0	36.2	✓
80			9.2	35.0	✓
70			13.5	30.7	✓
4760			14.6	29.6	✓
50		627.92	7.7	20.2	✓
40			8.8	19.1	✓
30			8.9	19.0	✓
20			9.1	18.8	✓
10			9.0	18.9	✓
4700			9.1	18.8	✓
90			9.1	18.8	
80			9.2	18.7	
70			9.6	18.3	
60			10.4	17.5	

Plotted

Mar 20

N3890

		626.97			
4997			9.9	17.1	✓
95 also			8.6	18.4	✓
95			4.7	22.3	✓
4988		338.97	3.6	35.4	✓
B.M.	6.73	644.15		637.42	
4770			8.4	35.8	✓ ✓
60			11.8	32.4	✓ ✓
B.M.	6.37	627.92		621.55	
55			+5.5	33.4	✓
50			4.9	23.0	✓

Mar 20

Mar 20 - 1933

627.92 N3890

4740	5.3	22.6	✓
30	8.7	19.2	✓
20	9.5	18.4	✓
10	9.2	18.7	✓
4700	9.2	18.7	✓
4690	9.2	18.7	✓
80	9.2	18.7	✓
70	9.4	18.5	✓
60	9.3	18.6	✓
50	9.3	18.6	
40	9.3	18.6	
30	10.8	17.1	

Plotted

N3900

4750	+9.4	37.3	✓
40	+0.5	28.4	✓
30	4.7	23.2	✓
20	7.9	20.0	✓
10	9.4	18.5	✓
700	9.5	184	✓

Plotted

Item 3

627.92 N3900

4690	9.5	18.4	✓
80	9.4	18.5	✓
70	9.4	18.5	✓
60	9.4	18.5	✓
50	9.4	18.5	✓
40	9.3	18.6	✓
30	9.2	18.7	✓

Plotted

N3910

4630	9.6	18.3	✓
40	9.7	18.2	✓
50	9.6	18.3	✓
60	8.9	19.0	✓
70	9.1	18.8	✓
80	4.7	23.2	✓
90	6.1	21.8	✓
4700	3.5	24.4	✓
10	+2.9	30.8	✓
15	+7.9	35.8	✓
20	+7.4	35.3	✓
30	+10.6	38.5	✓

Plotted

Final x Sections
Item 3
Mar. 18 - 1933

Elliott
Simpson
Soper
Remmen

B.M.	13.00	613.00		600.00	
	2.59	615.28	0.31	612.69	
			N3370		
4730			13.5	01.8	✓
40			13.8	01.5	
50			17.0	98.3	✓
60			18.4	96.9	
70			19.8	95.5	
			N3360		
90			22.3	93.0	✓
80			18.1	97.2	
70			15.7	99.6	
60			14.1	01.2	✓
50			14.1	01.2	✓
40			11.2	04.1	✓
30			10.0	05.3	✓
4720			9.6	05.7	✓

Plotted

Plotted

	615.28	N3350		
4710		4.3	11.0	✓ Page 45
20		7.2	08.1	✓
30		6.2	09.1	
40		6.7	08.6	
50		8.9	06.4	
60		10.8	04.5	—
70		13.0	02.3	✓
80		15.1	00.2	✓
90		19.1	96.2	✓
4800		19.8	95.5	✓
10		21.6	93.7	✓
20		22.4	92.9	✓ A21/18
		N3340		
4840		19.9	95.4	
30		18.3	97.0	
20		16.4	98.9	✓
10		14.6	00.7	
4800		15.1	00.2	
4790		15.0	00.3	

Plotted

Plotted

		615.28	N3340		
4780			12.2	03.1	
70			9.0	06.3	
60			5.8	09.5	
50			5.0	10.3	
40			+2.0	17.3	
35			3.6	11.7	
30			4.2	11.1	
20			4.4	10.9	
10			1.6	13.7	
4700			1.3	14.0	
4690			2.5	12.8	
4680			3.2	12.1	
			N3330		
4680			1.8	13.5	
90			0.0	15.3	
4700			+0.4	15.7	
10			+1.4	16.7	
20			0.1	15.2	

Plotted

Plotted

		615.28	N3330		
4730			1.2	14.1	
40			1.2	14.1	
T.P.	9.14	614.54	9.88	605.40	
50			1.0	13.5	
60			3.4	11.1	
70			7.2	07.3	
80			8.5	06.0	
90			9.0	05.5	
92			5.0	09.5	
4802			4.7	09.8	
04			9.3	05.2	
10			9.6	04.9	
20			11.3	03.2	
30			10.4	04.1	
T.P.	1.57	603.76	12.35	602.19	
40			2.0	01.8	
50			5.8	98.0	
60			8.8	95.0	
70			covered		

Plotted

Start Mar 20 - 1933
Same Party

		603.76	N3330		
4880			8.8	95.0	
90			8.7	95.1	
4900			8.3	95.5	
10			7.9	95.9	
20			8.0	95.8	
30			8.5	95.3	
			N3320		
4950			0.6	03.2	
40			0.3	03.5	
30			1.5	02.3	
20			1.4	02.4	
10			2.5	01.3	
4900			2.9	00.9	
4890			3.8	00.0	
80			2.1	01.7	
70			1.9	01.9	
60			2.6	01.2	
50			1.3	02.5	End Mar 18 1933

B.M.	9.43	617.62		608.19	
4840			11.7	05.9	
30			10.2	07.4	
20			7.2	10.4	
10			7.8	09.8	
4800			7.8	09.8	
90			7.3	10.3	
80			7.8	09.8	
70			7.9	09.7	
60			5.5	12.1	
50			3.3	14.3	
			N3310		
4750			1.4	16.2	
60			2.8	14.8	
70			3.9	13.7	
80			4.7	12.9	
90			4.1	13.5	
4800			4.7	12.9	
10			5.4	12.2	

617.62 N3310

4820		
30	5.9	11.7
38	6.1	11.5
40	6.7	10.9
47	1.6	16.0
50	1.6	16.0
60	9.2	08.4
70	9.4	08.2
75	6.6	11.0
80	12.2	05.4
90	13.8	03.8
4900	13.6	04.0
10	12.2	05.4
20	12.5	05.1
24	11.2	06.4
30	5.1	12.5
40	12.0	05.6
40 also	12.9	04.7
50	10.7	06.9
	11.3	06.3

617.62 N3300

4950	10.5	07.1
40	5.3	12.3
30	5.2	12.4
20	5.7	11.9
10	8.6	09.0
4900	8.5	09.1
4890	5.5	12.1
80	6.6	11.0
70	4.0	13.6
60	4.1	13.5
50	2.0	15.6
40	2.7	14.9
Set B.M.	1.18	616.44

End Mar 20-1933

Mar 22 - 1933
Item 3

Elliott
Simpson
Soper
Remmen

N3300

B.M.	7.16	617.02		609.86
4950			9.2	07.8
60			11.9	05.1
70			13.2	03.8
4980			15.5	01.5
B.M.	0.96	625.35		624.39

Plotted

N3890

5003	14.7	10.6
06	9.2	16.1
10	5.3	20.0
16	3.4	21.9

Plotted

(Cont. from Page 16)

N3880

5003	24.8	00.5
06	18.0	07.3
10	13.2	12.1
20	10.4	14.9
T.P.	2.50 614.98	12.87 612.48

Plotted

Showing Overbreak after last finals were taken

614.98 N3870

5003	16.3	98.7
06	13.1	01.9
15	2.7	02.3

Plotted

N3860

5003	19.3	95.7
05	15.8	99.2
12	13.1	01.9

Plotted

N3850

5003 Plotted	28.9	586.1

Showing Overbreak after last finals were taken

Final X Sections
Mar 24-1933

B.M.	3.15	620.19		617.04	
			N3320		
4625			11.0	09.2	O.G
30			10.4	09.8	
40			9.8	10.4	
50			7.3	12.9	
60			6.5	13.7	
70			4.8	15.4	
80			3.2	17.0	
4690			4.4	15.8	O.G
→ O.G E. to 4740					
			N3330		
4670			6.2	14.0	
60			8.0	12.2	
50			10.7	09.5	
40			9.7	10.5	
30			11.6	08.6	
T.P.	2.62	610.08	12.73	607.46	
25			5.4	04.7	

plotted

plotted

		610.08	N3330		
4620			5.0	05.1	
→ O.G. west to toe					
			N3340		
4590			10.5	99.6	O.G
4600			9.8	00.3	
10			7.2	02.9	
20			6.9	03.2	
25			6.7	03.4	
30			3.5	06.6	
40			3.6	06.5	
50			3.1	07.0	
60			+0.5	10.6	
70			+2.3	12.4	
			N3350		
4700			+3.2	13.3	Page 40
4690			+0.6	10.7	
80			0.4	09.7	
70			0.4	09.7	
60			2.0	08.1	

plotted

plotted

610.08 N3350

4650	1.8	08.3	
40	3.2	06.9	
30	5.2	04.9	
20	5.9	04.2	
10	8.9	01.2	
4600	10.9	99.2	
90	12.9	97.2	
4580	13.2	96.9	O.G

N3360

4580	13.6	96.5	O.G
90	12.2	97.9	
4600	12.1	98.0	
10	8.9	01.2	
20	6.0	04.1	
30	6.0	04.1	
40	4.1	06.0	
50	1.5	08.6	
60	2.1	08.0	
70	1.5	08.6	
80	2.5	07.6	

Plotted

Plotted

610.08 N3360

4690	1.6	08.5

O.G E. to 4710

N3370

O.G. E. to 4720

4680	3.1	07.0
20	2.1	08.0
60	1.3	08.8
50	3.4	06.7
40	4.7	05.4
30	5.6	04.5
20	5.6	04.5
10	9.1	01.0
4600	14.7	95.4
90	15.7	94.4
80	13.6	96.5 O.G

Plotted

Final X Sections
April 10 - 1933

B.M.	0.93	651.31 ~~650.93~~		650.38 ~~650.00~~
			N3200	
E5060			4.8	646.5
50			5.2	46.1
40			6.4	44.9
30			6.4	44.9
20			6.5	44.8
12			7.9	43.4
05			17.2	34.1
5003			17.2	34.1
4997			16.7	34.6
95			16.7	34.6
90			6.2	45.1
80			4.1	47.2
77			3.2	48.1
68			+2.7	54.0

651.31 ~~650.93~~

N3210

4966	+4.9	56.2
70	2.8	48.5
80	7.8	43.5
90	9.7	41.6
94	12.3	39.0
4997	17.5	33.8
5003	21.2	30.1
04	11.5	39.8
12	12.5	38.8
14	7.9	43.4
20	6.9	44.4
30	6.4	44.9
40	6.2	45.1
50	5.7	45.6
60	5.4	45.9

651.31
~~650.93~~

5060		N3220	
		5.5	45.8
50		6.0	45.3
40		6.4	44.9
30		6.5	44.8
20		14.7	36.6
10		20.4	30.9
06		19.1	32.2
50 03		28.5	22.8
4997		20.5	30.8
92		9.1	42.2
80		8.3	43.0
72		7.0	44.3
4966		41.3	52.6
		N3230	
4978		6.5	44.8
80		12.8	38.5
90		16.1	35.2
93		22.6	28.7
97		25.2	26.1

Plotted

Plotted

651.31
~~650.93~~

				N3230
T.P.	0.59	639.02 ~~638.64~~	12.88	638.43 ~~638.05~~
Not changed				
5013			12.1	26.9
20			11.2	27.8
30			12.5	26.5
40			7.1	31.9
50			4.1	34.9
60			2.3	36.7
				N3240
68			9.2	29.8
60			9.9	29.1
T.P.	0.33	626.53 ~~15~~	12.82	626.20 ~~625.82~~
50			10.1	26.6
40			2.4	24.1
30			4.6	21.9
20			4.7	21.8
5010			5.8	20.7
Not changed				

Plotted

Plotted

		626.~~45~~ 53	N32 50		
↑ Not changed					
50 10			9.0	17.5	✓
14			7.7	18.8	✓
20			8.9	17.6	✓
30			10.6	15.9	✓
40			9.6	16.9	✓
48			7.1	19.4	✓
52			3.6	22.9	✓
60			4.5	22.0	✓
65			3.2	23.3	✓
			N 3260		
50 60			7.3	19.2	✓
53			7.7	18.8	✓
50			10.5	16.0	✓
Check on H.I.			12.1	614.4	614.5 W.S.
	12.54	638.~~36~~ 74		626.20 ~~625.82~~	
	12.92	651.36 ~~650.98~~	0.30	638.06 44	
	11.83	662.22 ~~661.84~~	0.97	650.39 ~~650.01~~	
B.M.			3.70	658.52 ~~358.14~~	658.52

Plotted

Plotted

Final X Sections
May 17-1933

Elliott
Simpson
Soper
Remmen

B.M.	1.27	669.59		668.32
	0.25	657.36	12.48	657.11
	0.21	644.70	12.87	644.49
Set B.M.	2.67	638.21	9.16	635.54

N 3270

4966			14.4	23.8
60			11.7	26.5
50			8.1	30.1
47			9.8	28.4
40			9.7	28.5
30			10.3	27.9
20			9.0	29.2
10			8.8	29.4
4900			7.8	30.4
4895			10.1	28.1
90			9.9	28.3
80			3.9	34.3
70			5.5	32.7
66			5.5	32.7

Plotted

638.21 N 3270

4863			+2.5	40.7
56			+1.8	40.0
54			+8.0	46.2
50			+7.9	46.1
T.P.	11.35	644.17	5.39	632.82
	4.06	648.02	0.21	643.96
40			2.8	45.2
30			8.6	39.4
20			6.5	41.5
10			6.8	41.2
4800			5.4	42.6
4790			11.8	36.2
80			12.6	35.4
70			12.4	35.6
60			13.0	35.0
55			9.6	38.4
50			12.8	35.2
40			12.4	35.6
30			13.0	35.0

Plotted

May 17

648.02 N3270

4720	15.6	32.4	✓
10	19.1	28.9	✓
4700	22.5	25.5	✓
90	21.9	26.1	✓
80	16.1	31.9	✓
70	13.5	34.5	✓

Plotted.

N3260

4680	13.8	34.2	✓
90	19.9	28.1	✓
4700	21.6	26.4	✓
10	19.9	28.1	✓
20	16.3	31.7	✓
30	11.4	36.6	✓
40	8.8	39.2	✓
50	7.0	41.0	✓
60	7.9	40.1	✓
70	8.4	39.6	✓
80	8.6	39.4	✓
90	1.2	46.8	✓

Plotted

648.02 N3260

4800	2.4	46.4	✓
10	1.9	46.1	✓
20	2.9	45.1	✓
30	3.9	44.1	✓

May 18 - 1933

B.M.	11.09	655.58 ✓		644.49
	9.7	665.3 ✓	0.0	655.6
4840			7.2	58.1 ✓
48			6.6	58.7 ✓
48 Too			+3.1	68.4 ✓
53			+3.1	68.4 ✓
B.M.	11.09	655.58		644.49
60			14.6	41.0 ✓
70			16.6	39.0 ✓
80			18.8	36.8 ✓
90			14.0	41.6 ✓
4900			19.0	36.6 ✓
10			19.7	35.9 ✓
20			2.1	53.5 ✓

Plotted

655.58 N3260

4930	18.2	37.4
40	18.6	37.0
50	19.7	35.9
60	22.3	33.3
68	25.8	29.8

N3250

4974	17.4	38.2
70	16.5	39.1
60	15.2	40.4
50	16.9	38.7
40	15.8	39.8
30	14.1	41.5
20	15.2	40.4
10	14.6	41.0
4900	13.5	42.1
4890	12.8	42.8
80	12.4	43.2
70	8.3	47.3
65	6.2	49.4

Plotted

Plotted

655.58 N3250

	13.0	668.6	0.0	655.6
4860			1.7	66.9
50			3.1	65.5
37			16.3	52.3
28			17.4	51.2
20			5.1	63.5
10			8.2	60.4
B.M.	8.33	652.29		643.96
4800			2.5	49.8
4790			5.4	46.9
82			6.5	45.8
80			1.8	50.5
70			4.7	47.6
60			5.2	47.1
50			8.5	43.8
40			9.2	43.1
30			13.5	38.8
20			18.0	34.3
10			20.4	31.9

Plotted

Plotted

		652.29	N3250	
4700			23.3	29.0
4690	Plotted		21.9	30.4 ✓
4680			15.7	36.6 ✓
(Don't Ink in 3240 and 3230 yet) →			N3240	
4680			14.1	38.2
90			19.5	32.8 ✓
4700			18.8	33.5 ✓
10			15.4	36.9
20			13.5	38.8
30			11.2	41.1
40			5.8	46.5 ✓
50			4.4	47.9
60			0.7	51.6
T.P.	10.93	662.77 ✓	0.45	651.84 ✓
70			9.0	53.8
80			7.1	55.7
90			6.4	56.4 ✓
4800			4.8	58.0
10			2.8	60.0 ✓

		662.77	N3240	
	7.0	669.8	0.0	662.8
4820			7.1	62.7
30			6.1	63.7
40			7.9	61.9
50			9.5	60.3
B.M.	11.09	655.58		644.49
60			0.5	55.1 ✓
70			3.0	52.6
80			5.3	50.3
90			6.3	49.3
4900			6.0	49.6 ✓
10			6.4	49.2
20			9.0	46.6 ✓
30			12.5	43.1 ✓
40			10.4	45.2 ✓
50			9.2	46.4 ✓
60			10.2	45.4 ✓
70			9.6	46.0 ✓
79			13.0	42.6

(Dont Ink in 3230 yet) → N 3230

655.58

4980			
	14.1	41.5	
70			
	10.0	45.6	✓
60			
	8.5	47.1	✓
50			
	5.6	50.0	✓
40			
	4.6	51.0	
30			
	6.6	49.0	✓
23			
	6.2	49.4	✓
16			
	+5.8	61.4	✓
10			
	5.5	50.1	✓
4900			
	4.6	51.0	
4895			
	4.9	50.7	✓

669.8

90			
	13.3	56.5	
80			
	12.5	57.3	
70			
	4.3	65.5	
60			
	4.7	65.1	✓
50			
	3.1	66.7	✓
40			
	2.1	67.7	
30			
	3.5	66.3	

669.8 N 3230

4820			
	3.9	65.9	✓
10			
	3.5	66.3	✓
4800			
	6.0	63.8	

662.77

4790			
	2.1	60.7	
80			
	4.5	58.3	✓
70			
	5.9	56.9	
60			
	7.8	55.0	
50			
	4.5	58.3	
40			
	5.0	57.8	
39			
	9.6	53.2	✓
30			
	13.4	49.4	✓
20			
	20.5	42.3	
10			
	24.3	38.5	✓
4700			
	26.6	36.2	✓
4690			
	27.2	35.6	✓
86			
	26.6	36.2	✓
	12.85	649.92 ✓	650 ±

All Etc. Ok for Clotting g = 2.5 - 3.4 EBH

End May 18

Continued on p. 58

Final Cross-Sections under Rock emb.

N 3980

B.M.	13.20	639.61		626.41
5300			14.0	25.6
5290			13.9	25.7
80			14.0	25.6
70			14.2	25.4
60			13.6	26.0
50			13.4	26.2
40			13.9	25.7
30			13.4	26.2
20			13.0	26.6
10			13.6	26.0
5200			13.3	26.3
5190			12.6	27.0
85			11.3	28.3
80			7.8	31.8

N 3990

5170	0.0	39.6
80	3.9	35.7

These levels apparently over fill for 675 ft. Rec. Rang. Elev. scaling to be checked 9/17/35 M.

Plotted

June 3, 1933
Simpson
Osborne
Soper
Remmen

N 3990

	639.61		
5190		7.3	32.3
5200		11.0	28.6
10		10.9	28.7
20		12.4	27.2
30		13.1	26.5
40		13.3	26.3
50		13.6	26.0
60		13.8	25.8
70		14.2	25.4
80		14.3	25.3
90		14.3	25.3
5300		14.4	25.2
10		14.5	25.1
20		14.8	24.8
30		14.3	25.3
40		14.3	25.3

Plotted on Profile 9-26-1934 C.B.H.
Same made as preceding page.

639.61 N4000

5340	13.7	25.9
30	13.9	25.7
20	14.2	25.4
10	14.5	25.1
5300	14.3	25.3
5290	14.0	25.6
80	14.2	25.4
70	13.8	25.8
60	13.6	26.0
50	13.2	26.4
40	13.0	26.6
30	12.5	27.1
20	11.8	27.8
10	9.0	30.6
5200	5.7	33.9
5190	0.2	39.4

N4010

5200	0.4	39.2
04	0.5	39.1

Plotted

Plotted on Profile 9-26-34 GBH
Same note as on page 55

639.61 N4010

5210	4.5	35.1
20	11.2	28.4
30	12.5	27.1
40	12.9	26.7
50	13.3	26.3
60	13.5	261
70	13.8	25.8
80	13.9	25.7
90	13.8	258
5300	13.7	25.9
10	14.0	25.6
20	14.1	25.5
30	13.9	25.7
40	13.5	26.1
50	13.7	25.9

N4020

5345	8.1	31.5
40	9.6	30.0
35	13.1	265

Plotted

Plotted Profile 9-26-34 GBH
Same note as on page 55

639.61

5330			
20			
10			
5300			
5290			
80			
70			
60			
50			
40			
30			
20			
17			
5235			
40			
50			
60			
70			

Plotted

N4020

13.6	26.0	
13.8	25.8	
13.6	26.0	
13.9	25.7	
13.8	25.8	✓
13.5	26.1	✓
13.7	25.9	✓
13.8	25.8	✓
14.0	25.6	✓
12.6	27.0	✓
7.1	32.5	✓
3.8	35.8	✓
0.4	39.2	✓

N4030

0.3	39.3	
0.2	39.4	
1.8	37.8	✓
1.3	38.3	✓
3.0	36.6	✓

639.61

5280			
90			
5300			
10			
20			
27			
32			
5320			
13			
10			
5300			
5290			
80			
75			
5310			
5300			
5296			

Plotted

N4030

4.0	35.6	✓
10.3	29.3	✓
12.8	26.8	
12.6	27.0	
13.3	26.3	
13.0	26.6	
5.7	33.9	

N4040

4.4	35.2	
10.6	29.0	
10.4	29.2	
12.0	27.6	
6.6	33.0	✓
2.4	37.2	✓
0.2	39.4	✓

N4050

2.2	37.4	
0.7	38.9	
0.5	39.1	

N 3220

June 22 - 1933

B.M.	0.0	650.0		650.0	
4690			5.2	44.8	✓
93			12.5	37.5	✓
4698			13.4	36.6	✓
4700			12.1	37.9	✓
10			9.1	40.9	✓
20			3.1	46.9	✓
4730			+1.6	51.6	✓

Established

Final X Sections
Aug. 14, - 1933

N3170

B.M.	0.0	668.5		668.5
5003			12.7	55.8
06			12.4	56.1
12			7.1	61.4
20			5.6	62.9
26			5.1	63.4
30			2.3	66.2

N3160

5003			11.9	56.6
08			9.5	59.0
20			9.2	59.3
30			2.4	66.1

N3150

5003			11.0	57.5
10			6.0	62.5
20			3.8	64.7
31			2.3	66.2

Plotted

N3140

		668.5		
5003			7.0	61.5
10			0.9	67.6
20			0.0	68.5
B.M.	0.68	684.32		683.64
30			12.5	71.8
32			8.1	76.2
40			4.4	79.9

N3130

5030			0.0	84.3
20			7.1	77.2
11			6.6	77.7
05			14.3	70.0
5003			16.8	67.5

N3120

B.M.	13.16	696.80		683.64
4997			12.2	84.6
5003			20.3	76.5
08			13.5	83.3
12			7.3	89.5
20			9.6	87.2
22			9.4	87.4
28			3.2	93.6

Plotted

		696.80	N3110	
Set B.M.	12.97	709.35	0.42	696.38
4997			19.2	90.2
5003			21.5	87.9
12			14.1	95.3
17			12.3	97.1
22			13.5	95.9
31			5.3	04.1
			N3100	
5018			4.9	04.5
14			8.9	00.5
5003			15.1	94.3
4997			15.5	93.9
88			7.4	02.0
B.M.	16.82	713.20		696.38
			N3090	
4991			7.4	05.8
4996			12.6	00.6
4997			19.1	94.1
5003			15.9	97.3
05			13.4	99.8
13			7.8	05.4

Not Used

ch flatting N

ch flatting N

		713.20	N3080	
4990			4.2	09.0
97			8.0	05.2
5003			8.8	04.4
05			6.9	06.3
10			4.7	08.5
			N3070	
5008			+0.3	13.5
5003			3.6	09.6
4997			3.5	09.7
93			0.1	13.1

Not Used

ch flatting N

End Aug 14

Final X Sections Item 11
March 2, 1933

N 3830

B.M.	4.32	584.84		580.52
4997			4.6	80.2
90			4.6	80.2
80			5.3	79.5
75			5.0	79.8
70			2.0	82.8
58			+13.5	98.3

Copy from 408 44

Item 11-E.
Item 3-W.

Deleted

N 3840

4997			4.8	80.0
90			+5.0	89.8

Copy from 408 44

Item 3-W.

Final Cross-sections, Item 3
Aug. 19, 1933.

B.M.	0.59	705.77		705.18
T.P.	0.39	693.34	12.82	692.95
T.P.	4.02	684.13	13.23	680.11

N 3220

E 4760	21.6	62.5
70	23.0	61.1
80	21.2	62.9
90	16.4	67.7
95	19.4	64.7
4800	19.4	64.7
10	16.9	67.2
20	14.5	69.6
30	9.9	74.2
40	13.2	70.9
50	12.2	71.9
60	12.9	71.2
67	10.4	73.7
70	12.2	71.9

plotted

684.13

N 3210

E 4870	8.6	75.5
65	5.4	78.7
60	7.7	76.4
50	6.5	77.6
40	6.8	77.3
30	10.0	74.1
20	11.6	72.5
10	11.5	72.6
4800	14.5	69.6
4790	10.7	73.4
80	18.1	66.0
75	19.1	65.0
65	13.9	70.2

plotted

N 3200

4780	12.0	72.1
90	8.9	75.2
4800	10.2	73.9
10	6.1	78.0
20	7.6	76.5

N 3200

		684.13			
4825			2.7	81.4	
35			5.2	78.9	
40			2.8	81.3	
50			3.2	80.9	
60			3.1	81.0	
70			0.8	83.3	

Level note plotted

N 3190

4870			+2.7	86.8	
60			+2.3	86.4	
50			+0.7	84.8	
40			+0.4	84.5	
30			+1.7	85.8	
20			1.4	82.7	
10			3.4	80.7	
4800			3.8	80.3	
4790			3.8	80.3	
T.P.	11.12	694.87	0.38	683.75	

Plotted

N 3180

		694.87			
4800			11.0	83.9	
10			10.7	84.2	
20			8.8	86.1	
30			7.1	87.8	
40			6.1	88.8	
50			5.1	89.8	
60			5.2	89.7	
70			4.9	90.0	
T.P.	11.33	705.94	0.26	694.61	
B.M.			0.73	705.21	705.18

Plotted

Use Levels Ela.

Elliott
Simpson
Soper
Salgado

Final X Sections
Sept 13 - 1933

N3140

B.M.	14.69	683.33 (L.)		671.64	
5217			12.2	71.1	✓
5200			8.6	74.7	✓
5190			10.6	72.7	✓
80			12.6	70.7	✓
70			14.0	69.3	✓
60			15.3	68.0	✓
50			14.7	68.6	✓
40			14.0	69.3	✓
30			13.3	70.0	✓
20			12.2	71.1	✓
10			11.1	72.2	✓
5100			9.2	74.1	✓
5090			7.7	75.6	✓
80			9.5	73.8	✓
70			7.5	75.8	✓
60			5.9	77.4	✓
50			2.0	81.3	✓
46			+3.8	87.1	✓

Checked

N3130

		683.33 (L.)			
T.P.	12.01	695.17 (π)	0.17	683.16	
5033			5.3	89.9	✓
40			3.9	91.3	✓
50			10.0	85.2	✓
60			13.0	82.2	✓
		683.33			
70			3.2	80.1	✓
80			5.0	78.3	✓
90			5.8	77.5	✓
5100			7.0	76.3	✓
10			8.0	75.3	✓
20			10.7	72.6	✓
30			11.1	72.2	✓
40			11.5	71.8	✓
50			12.0	71.3	✓
60			8.9	74.4	✓
68			7.6	75.7	✓
70			3.3	80.0	✓

Checked

	683.33	N3130	
5180		5.1	78.2
5210		9.3	74.0
		N3120	
5190		+2.9	86.2
87		3.2	80.1
80		2.9	80.4
70		2.1	81.2
60		0.5	82.8
	695.2		
50		9.7	85.5
40		9.4	85.8
30		10.5	84.7
20		11.8	83.4
10		11.6	83.6
5100		11.2	84.0
5090		11.9	83.3
80		10.2	85.0
70		9.6	85.6
60		8.5	86.7

Plotted

O.G. Leaver Elev. Page 69

	695.2	N3120	
5050		6.3	88.9
40		+0.7	96.5
32		+5.2	700.4
		N3110	
5035		+9.1	04.3
40		+3.1	98.3
50		1.7	93.5
60		1.4	93.8
70		2.1	93.1
80		2.2	93.0
90		2.5	92.7
5100		2.7	92.5
10		1.6	93.6
20		3.7	91.5
30		5.7	89.5
40		7.7	87.5
50		9.2	86.0
60		10.6	84.6
68		11.7	83.5
73		4.1	91.1

Plotted

Duplicated 9.69

See Page 68 for Covers, Elev. Taken Oct 10-33 Page 70 Page 66

O.G.

Simpson
Salgado
McNugh.

Final Cross-Sections
Oct. 5, 1933

695.2

N3100

5157½	+0.1	95.3	0.6
50	5.5	89.7	
40	5.5	89.7	
30	5.0	90.2	
20	3.5	91.7	
10	1.3	93.9	
5100	0.0	95.2	
5090	+2.0	97.2	
80	+4.3	99.5	
70	+7.2	02.4	
60	+9.2	04.4	
50	+11.0	06.2	
40	+9.7	04.9	
30	+14.0	09.2	

Plotted

B.M.	6.22	707.54	701.32

N3940

8/5/33

E4920	21.4	686.1 ← 445/23 = 82.7
10	17.0	90.5
4900	19.3	88.2
4890	19.0	88.5
85	18.0	89.5
80	18.5	89.0

N3950

4880	6.3	701.2
90	5.9	01.6
4900	7.5	00.0
10	10.7	696.8
20	18.8	~~89.7~~ 88.7
30	23.5	84.0
40	26.3	81.2

Plotted

N3960

4910	1.4	706.1
20	4.9	02.6

		707.54	N3960	
4930			8.4	99.1
T.P.	2.70	698.77	11.47	696.07
40			7.3	91.5
50			12.1	86.7
60			11.7	87.1
65			19.2	79.6
			N3970	
4985			16.0	82.8
72			8.3	90.5
60			5.8	93.0
50			2.3	96.5
40			0.1	98.7
			N3980	
4950			+3.0	701.8
60			+1.5	00.3
70			2.0	696.8
80			4.6	94.2
90			5.8	93.0
97			15.6	83.2

Plotted

	698.77	N3990	
4997		16.5	82.3
95		16.5	82.3
93		12.1	86.7
90		10.0	88.8
80		2.0	96.8
70		+4.7	03.5
		N4000	
4970		+6.5	05.3
80		0.1	98.7
90		8.4	90.4
95		12.5	86.3
97		13.3	85.5
		N4010	
4997		8.5	90.3
95		8.9	89.9
90		5.0	93.8
80		+4.7	703.5
		N4020	
4997		5.8	693.0

Plotted

Final x section =
Oct. 10, 1933

Lourdon
Remmen
Salgado

BM	4.04	709.21		705.17	
			N 3090		
E 5070			7.1	02.1	
80			9.5	699.7	
90			11.1	98.1	
99			12.6	96.6	
5110			6.6	02.6	
20			7.5	01.7	
			N 3100		
5158			13.8	95.4	
50			19.3	89.9	
40			19.8	89.4	
30			19.0	90.2	
20			17.6	91.6	
10			15.2	94.0	
5100			14.0	95.2	
5090			11.3	97.9	
80			9.7	99.5	
70			7.0	02.2	

Plotted

		709.21	N 3100		
5060			5.0	04.2	
50			3.6	05.6	
40			4.7	04.5	
T.P.	1.24	699.25	11.20	698.01	
			N 3110		
5040			1.0	98.2	
50			5.6	93.6	
60			5.4	93.8	
70			6.3	92.9	
80			6.7	92.5	
90			8.6	90.6	
5100			9.2	90.0	
10			8.9	90.3	
20			9.4	89.8	
30			10.5	88.7	
40			12.0	87.2	
50			13.5	85.7	
60			15.9	83.3	
70			16.9	82.3	
74			8.2	91.0	

Plotted

699.25

N 3120

5080	14.0	685.2	See Page 63
70	14.0	85.2	
60	12.6	86.6	
50	10.3	88.9	
40	7.0	92.2	

N 3130

5040	7.7	91.5	
50	13.6	85.6	Lower ☐ on Page 64
54	15.6	83.6	

Plotted

B.M.	11.65	712.97	701.32

N 3960

E 4850	4.6	708.4
60	5.0	08.0
70	5.0	08.0
80	3.8	09.2
90	5.9	07.1
4900	4.5	08.5

N 3970

4930	10.6	02.4
20	4.7	08.3
10	3.1	09.9
4900	+0.9	13.9
4890	+2.0	15.0
80	3.2	09.8
70	4.6	08.4
60	5.6	07.4
50	5.5	07.5

Plotted

712.97 N3980

4835		6.9	06.1
40	Plotted	6.5	06.5
50		6.1	06.9
60		5.1	07.9

Apr 1, 1934

Final X Sections

B.M	1.02	770.02	769.0
		N 4200	
5010		12.5	57.5
5012		5.4	64.6
5013		5.5	64.5
		N 4190	
5009		13.4	56.6
5009		5.4	64.6
5013		3.3	66.7
		N 4180	
5005		11.8	58.2 ~~68.2~~
5013		4.0	66.0

Continued on p. 72

Final X Sections of Downstream Rock
April 11 – 1934
Elliott-Soper-Remmen

B.M.	4.80	579.85 ✓	575.05	
N. 3860 is orig. ground				
N. 3850				
E 4515		4.0	75.8 ✓	m 8/1/34
4490		3.7	76.1 ✓	
85		4.6	75.2 ✓	
60		4.6	75.2 ✓	
48		4.7	75.1 ✓	
38		7.6	72.2 ✓	O.G.
N 3840				
4437		9.6	70.2 ✓	O.G.
52		4.8	75.0 ✓	
60		4.5	75.3 ✓	
80		4.8	75.0 ✓	
4500		4.3	75.5 ✓	
15		4.5	75.3 ✓	

Plotting of C.B.H.

N 3830			
579.85			
4515	4.5	75.3 ✓	
4500	4.9	74.9 ✓	
4480	4.7	75.1 ✓	
60	4.8	75.0 ✓	
40	10.4	69.4 ✓	
20	16.4	63.4 ✓	
4410	19.4	60.4 ✓	O.G.
N 3820			
4515	5.1	74.7 ✓	
4500	5.2	74.6 ✓	
4480	4.8	75.0 ✓	
65	4.8	75.0 ✓	
60	5.7	74.1 ✓	
40	12.2	67.6 ✓	
20	18.0	61.8 ✓	
4398	24.5	55.3 ✓	O.G.

C.H. for plotting Sept 26-34 C.B.H.

South of here rock is placed to theoretical lines.

Final X Sections (Wharped portion at E, end of spillway crest.)

July 5-1934
Elliott
Simpson
Soper
Kemmer

N 4180

B.M.	7.60	757.57 ✓		
			742.97	
E 5048			19.0	738.6 ✓ xxm 8/1/34
5046.5			19.0	738.6 ✓
"			17.6	740.0 ✓
5040			11.9	745.7 ✓
5030			4.4	753.2 ✓
5025			2.3	755.3 ✓
23			+2.7	760.3 ✓
20			+4.9	762.5 ✓
15			+8.8	766.4 ✓ Ch. Plotting W

N 4190

5044.5			18.4	739.2 ✓
43			18.4	739.2 ✓
42.5			17.0	740.6 ✓
40			14.7	742.9 ✓
30			4.6	753.0 ✓
20			+2.7	760.3 ✓
18			+5.8	763.4 ✓
13.5			+9.3	766.9 ✓ Ch. Plotting W.

Plotted Sept 26-34 - GBH

N4200

		757.57		
5013			+7.0	764.6 ✓
16			+6.1	763.7 ✓
21			+2.0	759.6 ✓
22			1.3	756.3 ✓
28			4.1	753.5 ✓
33.5			9.6	748.0 ✓
40			16.1	741.5 ✓
40			17.4	740.2 ✓
41			17.6	740.0 ✓

N4210

5037.5			16.0	741.6 ✓
36.5			15.9	741.7 ✓
36			14.0	743.6 ✓
30			8.1	749.5 ✓
25			5.7	751.9 ✓
20			1.7	755.9 ✓
16			2.9	754.7 ✓
13.5			0.5	757.1 ✓

Plotted Sept 26-34 GBH

Ch. Plotting W

N4215

757.57

E 5036	15.4	742.2	✓
35	15.4	742.2	✓
34.5	13.6	744.0	✓
30	12.0	745.6	✓
27	11.0	746.6	✓
24	9.4	748.2	✓
21	9.4	748.2	✓

Plotted Sept 26-34 EBA

Note: In addition to the excavation shown by the above sections there was excavated a 1'x1' cut off trench 24' long, 24 lin ft
Along W edge Elev. 743± to 740.8±

Final x Sections of Hyd. Fill at time of change from Hyd. Fill to Rolled Emb.
Aug 15. 1934

Conover
Simpson
Soper
Isabelle

Downstream Beach

Core Wall Staff 725.8 See FB 443
W

See FB 443

N4215

757.57

E 5036	15.4	742.2	✓
35	15.4	742.2	✓
34.5	13.6	744.0	✓
30	12.0	745.6	✓
27	11.0	746.6	✓
24	9.4	748.2	✓
21	9.4	748.2	✓

Plotted Sept 26-34 EBA

Note: In addition to the excavation shown by the above sections there was excavated a 1'x1' cut off trench 24' long, 24 cu ft/ft

Along W edge Elev. 743± to 740.8±

Final x Sections of Hyd. Fill at time of change from Hyd. Fill to Rolled Emb. Aug 15. 1934

Conover
Simpson
Soper
Isabelle

Downstream Beach

Core Wall Staff 725.8 See FB 443

"

539.66

-0.75 538.91

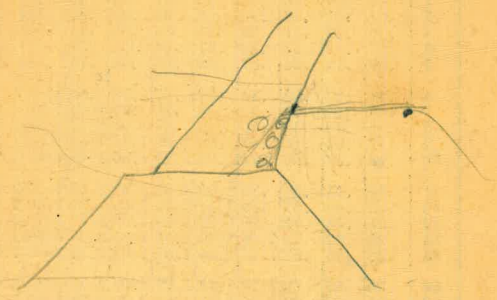

Table IX.—Calculation of Earthwork.

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	.89	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 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+.028+.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 ½ 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 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.

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