W357

357

357

Tables for Excavations and Embankments.

Distances from Centre of Roadway for Cross Sectioning.

Roadway 22 feet wide. Side Slopes 1 to 1.

For Single Track Excavation.

MICROFILMED
JAN

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	0
1	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	1
2	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	2
3	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	3
4	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	4
5	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	5
6	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	6
7	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	7
8	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	8
9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	9
10	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	10
11	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	11
12	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	12
13	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	13
14	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	14
15	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	15
16	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	16
17	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	17
18	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	18
19	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	19
20	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	20
21	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	21
22	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	22
23	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	23
24	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	24
25	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	25
26	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	26
27	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	27
28	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	28
29	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	29
30	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	30
31	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	31
32	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	32
33	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	33
34	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	34
35	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	35
36	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	36
37	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	37
38	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	38
39	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	39
40	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	40

Our Leather Bound Engineers Note Books are carried in the following rulings:

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

Original X Sections extended over dumping area north of river and upstr. from upstream toe wall pages 1 to 9

Original X Sections Extended 200' each way from ℄ of Spillway. page 10-

Continued from Book #353

600.14

N 3500 E 6370	9.4	590.7 ✓
510 370	7.6	92.5 ✓
520 370	6.1	94.0 ✓
530 370	4.7	95.4 ✓
540 370	3.5	96.6 ✓
550 370	2.8	97.3 ✓
560 370	+0.1	600.2 ✓
550 380	+0.3	00.4 ✓
540 380	1.1	599.0 ✓
530 380	2.0	98.1 ✓
520 380	3.6	96.5 ✓
510 380	4.4	95.7 ✓
500 380	5.3	94.8 ✓
490 380	7.6	92.5 ✓
480 380	10.2	89.9 ✓
470 380	13.0	87.1 ✓
460 380	14.5	85.6 ✓
450 380	15.0	85.1 ✓
430 390	14.9	85.2 ✓
440 390	14.3	85.8 ✓
450 390	14.0	86.1 ✓
460 390	12.6	87.5 ✓
470 390	10.4	89.7 ✓

X

600.14

3480			
6390		7.1	593.0 ✓
490			
390		5.2	94.9 ✓
500			
390		3.3	96.8 ✓
510			
390		1.8	98.3 ✓
520			
390		0.0	600.1 ✓
500			
400		+0.6	00.7 ✓
490			
400		2.4	597.7 ✓
480			
400		4.4	95.7 ✓
470			
400		7.8	92.3 ✓
460			
400		10.3	89.8 ✓
450			
400		12.1	88.0 ✓
440			
400		13.0	87.1 ✓
430			
400		13.3	86.8 ✓
420			
400		13.8	86.3 ✓
400			
410		13.4	86.7 ✓
410			
410		13.1	87.0 ✓
420			
410		12.3	87.8 ✓
430			
410		11.9	88.2 ✓
440			
410		11.5	88.6 ✓
450			
410		10.5	89.6 ✓
460			
410		7.6	92.5 ✓
470			
410		4.9	95.2 ✓
480			
410		1.8	98.6 ✓

X

600.14

3470			
6420		1.9	598.2 ✓
460			
420		4.9	95.2 ✓
450			
420		8.0	92.1 ✓
440			
420		9.8	90.3 ✓
430			
420		10.2	89.9 ✓
420			
420		10.6	89.5 ✓
410			
420		11.4	88.7 ✓
400			
420		12.3	87.8 ✓
390			
420		14.4	85.7 ✓
380			
430		12.7	87.4 ✓
390			
430		13.1	87.0 ✓
400			
430		10.8	89.3 ✓
410			
430		9.6	90.5 ✓
420			
430		9.1	91.0 ✓
430			
430		8.6	91.5 ✓
440			
430		7.9	92.2 ✓
450			
430		5.2	94.9 ✓
450			
440		4.3	95.8 ✓
440			
440		6.3	93.8 ✓
430			
440		6.7	93.4 ✓
420			
440		7.2	92.9 ✓
410			
440		7.9	92.2 ✓
400			
440		9.5	90.6 ✓
390			
440		11.9	88.2 ✓
380			
440		12.4	87.7 ✓

X

		600.14		
3370 6440			12.0	88.1 ✓
360 440			13.0	87.1 ✓
350 440			15.5	84.6 ✓
T.P.	12.82	612.56	0.40	599.74
T.P.	11.70	622.03	2.23	610.33
460 440			22.9	599.1 ✓
470 440			19.2	602.8 ✓
480 440			14.8	07.2 ✓
490 440			10.5	11.5 ✓
500 440			6.0	16.0 ✓
510 440			3.4	18.6 ✓
520 440			2.3	19.7 ✓
530 440			0.7	21.3 ✓
540 440			0.8	21.2 ✓
550 440			+0.2	22.2 ✓
560 430			1.4	20.6 ✓
550 430			3.2	18.8 ✓
540 430			4.3	17.7 ✓
530 430			5.1	16.9 ✓
520 430			6.1	15.9 ✓
510 430			7.5	14.5 ✓
500 430			12.2	09.8 ✓
490 430			13.9	08.1 ✓
480 430			17.6	04.4 ✓
470 430			20.8	01.2 ✓
460 430		×	23.7	598.3 ✓

622.03

3480		
6420	20.8	601.2 ✓
490		
420	17.9	04.1 ✓
500		
420	13.8	08.2 ✓
510		
420	11.3	10.7 ✓
520		
420	9.0	13.0 ✓
530		
420	8.5	13.5 ✓
540		
420	8.0	14.0 ✓
550		
420	7.8	14.2 ✓
560		
420	5.4	16.6 ✓
570		
420	0.9	21.1 ✓
580		
410	0.2	21.8 ✓
570		
410	4.0	18.0 ✓
560		
410	8.0	14.0 ✓
550		
410	11.3	10.7 ✓
540		
410	11.5	10.5 ✓
530		
410	12.3	09.7 ✓
520		
410	12.3	09.7 ✓
510		
410	13.5	08.5 ✓
500		
410	17.6	04.4 ✓
490		
410	21.4	00.6 ✓
510		
400	19.4	02.6 ✓
520		
400	18.1	03.9 ✓
530		
400	16.3	05.7 ✓
540		
400	16.0	06.0 ✓

Y

622.03

3550		
6400	15.2	606.8 ✓
560		
400	12.1	09.9 ✓
570		
400	9.1	12.9 ✓
580		
400	6.2	15.8 ✓
590		
400	3.0	19.0 ✓
600		
400	0.9	21.1 ✓
600		
390	2.1	19.9 ✓
590		
390	7.1	14.9 ✓
580		
390	10.2	11.8 ✓
570		
390	12.6	09.4 ✓
560		
390	16.2	05.8 ✓
550		
390	18.2	03.8 ✓
540		
390	20.1	01.9 ✓
530		
390	20.7	01.3 ✓
560		
380	20.4	01.6 ✓
570		
380	16.4	05.6 ✓
580		
380	12.5	09.5 ✓
590		
380	8.4	13.6 ✓
600		
380	4.9	17.1 ✓
610		
380	3.2	18.8 ✓
620		
380	1.6	20.4 ✓
620		
370	2.8	19.2
610		
370	7.4	14.6
600		
370	7.6	14.4
590		
370	11.7	10.3

X

622.03

3580		
6370	15.1	06.9
3570		
6370	19.1	02.9
580		
360	17.6	04.4
590		
360	16.4	05.6
600		
360	10.5	11.5
610		
360	5.1	16.9
620		
360	0.2	21.8
620		
350	1.4	20.6
610		
350	5.2	16.8
600		
350	10.0	12.0
590		
350	15.6	06.4
580		
350	19.8	02.2
580		
340	19.9	02.1
590		
340	15.8	06.2
600		
340	12.0	10.0
610		
340	5.8	16.2
620		
340	2.6	19.4
630		
330	2.6	19.4
620		
330	5.9	16.1
610		
330	9.9	12.1
600		
330	12.9	09.1
590		
330	16.7	05.3
580		
330	19.8	02.2

X

622.03

N3580 E6320		
590 320	20.1	01.9
600 320	16.9	05.1
610 320	13.8	08.2
620 320	10.7	11.3
630 320	7.4	14.6
640 310	3.2	18.8
630 310	4.8	17.2
620 310	7.1	14.9
610 310	9.4	12.6
600 310	11.8	10.2
590 310	14.5	07.5
580 310	17.8	04.2
590 300	20.6	01.4
600 300	19.0	03.0
610 300	16.8	05.2
620 300	14.3	07.7
630 300	11.9	10.1
640 300	10.0	12.0
650 300	8.0	14.0
660 300	4.0	18.0
660 290	2.9	19.1
650 290	3.8	18.2
640 290	7.8	14.2
630 290	11.9	10.1
	13.2	08.8

X

		622.03			
620					
290			14.6	07.4	
610					
290			15.7	06.3	
600					
290			17.9	04.1	
590					
290			20.9	01.1	
610					
280			18.1	03.9	
620					
280			15.6	06.4	
630					
280			15.5	06.5	
640					
280			15.7	06.3	
650					
280			16.4	05.6	
660					
280			9.4	12.6	
650					
270			18.2	03.8	
640					
270			19.1	02.9	
630					
270			19.7	02.3	
620					
270			19.4	02.6	
T.P.	0.00	608.95	13.08	608.95	
T.P.			12.55	596.40	
	0.35	596.75			
					Record
B.M			12.43	584.32	584.33

End June 29-1932

Original X Sections.

Feb 16 - 1933

Elliott - Simpson - Soper - Reimmen

N4320

B.M.	2.82	587.81		584.99	
	4.99	591.30 (level)	1.50	586.31	
E3960			7.4	83.9	X
3940			6.1	85.2	X

N4300

3960	8.0	83.3	X
3940	6.5	84.8	X
3920	5.0	86.3	X
3900	3.6	87.7	X

N4280

3940	6.9	84.4	X
20	5.4	85.9	X
3900	4.5	86.8	X
3880	3.7	87.6	X
60	2.2	89.1	X

N4260

3940	6.8	84.5	X
20	6.1	85.2	X
3900	5.5	85.8	X
3880	4.1	87.2	X
60	3.2	88.1	X
40	2.9	88.4	X
20	2.4	88.9	X
3800	2.0	89.3	X

591.30

N4240

3760	0.2	91.1	X
80	1.6	89.7	
3800	2.5	88.8	
20	3.4	87.9	
40	3.7	87.6	
60	5.0	86.3	
80	6.3	85.0	
3900	6.8	84.5	X
20	7.1	84.2	
40	7.8	83.5	X

N4220

3940	8.9	82.4	X
20	8.2	83.1	
3900	8.0	83.3	X
3880	7.6	83.7	
60	6.8	84.5	
40	4.7	86.6	
T.P.	9.56	594 94	592 585.38
20	7.9	87.0	
3800	7.1	87.8	
3780	5.5	89.4	
60	4.8	90.1	
40	4.2	90.7	
20	3.9	91.0	
3000	2.9	92.0	X

		594.94	N4220		
E 3680			2.2	92.7	X
			N4200		
3620			1.8	93.1	
40			2.9	92.0	
60			3.5	91.4	
80			4.3	90.6	
3700			4.3	90.6	
20			5.1	89.8	
40			5.6	89.3	
60			6.2	88.7	
80			6.9	88.0	
3800			8.2	86.7	
20			9.4	85.5	
40			10.4	84.5	
60			11.3	83.6	
80			12.0	82.9	
3900			12.5	82.4	X
20			13.1	81.8	
40			13.5	81.4	X
		591.30 level			
T.P.	6.27	587.97	9.60	581.70	
			N4180		
3940			8.0	80.0	X
20			7.4	80.6	
3900			6.7	81.3	X

		587.97	N4180		
E 3880			5.7	82.3	
		594.94			
60			11.8	83.1	
40			11.2	83.7	
20			10.5	84.4	
3800			9.4	85.5	
3780			8.3	86.6	
60			7.7	87.2	
40			7.3	87.6	
20			6.7	88.2	
3700			6.2	88.7	
3680			5.6	89.3	
60			4.9	90.0	
40			4.4	90.5	
20			3.2	91.7	
3600			2.5	92.4	
3580			2.0	92.9	
60			1.3	93.6	X
			N4160		
3500			0.3	94.6	X
20			0.7	94.2	
40			1.6	93.3	
60			2.8	92.1	
80			3.4	91.5	

	594.94	N4160		
E3600		3.9	91.0	+
20		4.5	90.4	|
40		5.7	89.2	|
60		6.3	88.6	|
80		6.9	88.0	|
3700		7.6	87.3	|
20		8.3	86.6	|
40		8.8	86.1	|
60		9.1	85.8	|
80		9.9	85.0	|
3800		10.6	84.3	|
20		11.3	83.6	|
40		12.2	82.7	|
60		12.7	82.2	|
	587.97			
80		6.6	81.4	|
3900		7.4	80.6	+
20		8.0	80.0	|
40		9.1	78.9	+
	6.74 592.68	2.03	585.94	
		N4140		
3940				
20				
3900				

Interpolate between N4160 and N4140

	592.68	N4140		
3880				
60				
40				
20		9.7	83.0	
3800		9.6	83.1	
3780		8.9	83.8	
60		8.1	84.6	
40		7.7	85.0	
20		7.2	85.5	
3700		6.7	86.0	
3680		5.9	86.8	
60		5.5	87.2	
40		4.6	88.1	
20		3.9	88.8	
3600		3.1	89.6	
3580		2.6	90.1	|
60		1.9	90.8	|
40		0.7	92.0	+
		N4120		
3540		2.2	90.5	+
60		3.2	89.5	|
80		4.1	88.6	|
3600		4.5	88.2	|
20		5.4	87.3	|
40		6.1	86.6	|

		592.68	N4120	
E3660			6.4	86.3
80			7.3	85.4
3700			8.2	84.5
20			9.9	82.8
40			10.5	82.2
60			10.1	82.6
80			10.2	82.5
3800			10.8	81.9
20			11.2	81.5
40				
60				
80				
3900				
20				
40				
			N4100	
	4.21	585.33	11.56	581.12
3940			8.5	76.8
20			8.6	76.7
3900			8.5	76.8
3880			8.5	76.8
60			7.5	77.8
40			6.5	78.8
20			5.5	79.8
3800			4.7	80.6

Interpolate between N4100 & N4120

		585.33	N4100	
3780			4.1	81.2
60			3.8	81.5
	6.74	592.68		585.94
40			11.0	81.7
20			10.2	82.5
3700			9.5	83.2
3680			8.8	83.9
60			8.2	84.5
40			7.3	85.4
20			6.7	86.0
3600			5.9	86.8
3580			5.4	87.3
60			4.3	88.4
40			3.5	89.2
			N4080	
3540			4.9	87.8
60			5.5	87.2
80			6.5	86.2
3600			7.3	85.4
20			7.9	84.8
40			8.6	84.1
60			9.4	83.3
80			10.3	82.4
3700			10.9	81.8
20			12.0	80.7

N4080

4.21 585.33

E 3740			
60			
80			
3800			
20			
40			
60			
80			
3900			
20			
40			
3940			
20			
3900			
3880			
60			
40			
20			
3800			
3780			
60			
40			
20			

581.12

4.3	81.0	⟨
5.1	80.2	|
5.5	79.8	
5.7	79.6	
6.7	78.6	
7.2	78.1	
7.7	77.4	
8.7	76.6	
9.0	76.3	X
9.5	75.8	
9.6	75.7	X

N4060

10.0	75.3	X
9.9	75.4	|
9.6	76.7	X
9.2	76.1	
8.8	76.5	
8.3	77.0	
7.8	77.5	
7.2	78.1	
7.1	78.2	
6.6	78.7	
6.1	79.2	
5.8	79.5	⟩

585.33

3700	
3680	
60	
40	
20	

592.68

3600	
3580	
60	
40	
3540	
60	
80	
3600	
20	
40	
60	
80	

4.21 585.33

3700	
20	
40	
60	
80	

N4060

5.1	80.2	⟨
4.3	81.0	|
3.3	82.0	
2.4	82.9	
1.7	83.6	
8.7	84.0	
7.8	84.9	
6.8	85.9	
6.2	86.5	X

N4040

7.4	85.3	⟨
7.9	84.8	|
8.8	83.9	
9.9	82.8	
10.3	82.4	
10.9	81.8	
11.8	80.9	
12.7	80.0	

581.12

6.4	78.9	
7.2	78.1	
8.0	77.3	⟩
8.4	76.9	
8.5	76.8	X

585.33 N4040

E3800	9.0	76.3	X
20	9.4	75.9	
40	9.7	75.6	
60	10.0	75.3	
80	10.1	75.2	
3900	10.4	74.9	X
20	10.8	74.5	
40	11.1	74.2	X
	N4020		
3940	12.2	73.1	X
20	12.0	73.3	
3900	11.7	73.6	X
3880	11.5	73.8	
60	11.3	74.0	
40	11.3	74.0	
20	11.0	74.3	
3800	10.6	74.7	
3780	10.3	75.0	
60	9.8	75.5	
40	9.3	76.0	
20	8.4	76.9	
3700	7.5	77.8	
3680	6.6	78.7	
60	5.6	79.7	
40	4.7	80.6	X

585.33 N4020

3620	4.1	81.2	X
3600	3.6	81.7	
3580	2.4	82.9	
60	2.1	83.2	
40	1.2	84.1	X
	N4000		
3540	2.1	83.2	X
60	3.4	81.9	
80	3.7	81.6	
3600	4.5	80.8	
20	5.5	79.8	
40	6.2	79.1	
60	7.0	78.3	
80	7.9	77.4	
3700	8.9	76.4	
20	9.9	75.4	
40	10.7	74.6	
60	11.3	74.0	
80	11.6	73.7	
3800	12.0	73.3	
20	12.3	73.0	
40	12.7	72.6	
60	13.4	71.9	
80	13.4	71.9	X

	585.33	N4000		
3900		13.4	71.9	X
20		13.6	71.7	|
40		14.0	71.3	X
		N3980		
3940		14.2	71.1	X
20		14.8	70.5	|
3900		15.3	70.0	X
3880		14.8	70.5	|
60		14.9	70.4	|
40		14.2	71.1	|
20		14.0	71.3	|
3800		13.1	72.2	|
3780		12.5	72.8	|
60		12.3	73.0	|
40		11.9	73.4	|
20		11.1	74.2	|
3700		10.5	74.8	|
3680		9.7	75.6	|
60		8.7	76.6	|
40		8.0	77.3	|
20		7.0	78.3	|
3600		5.8	79.5	|
3580		5.1	80.2	|
60		4.7	80.6	|
40		4.3	81.0	X

	585.33	N3960		
3540		5.7	79.6	X
60		6.0	79.3	|
80		6.7	78.6	|
3600		7.3	78.0	|
20		8.5	76.8	|
T.P.	2.98	9.57	575.76	|
40		3.0	75.7	|
60		3.7	75.0	|
80		4.4	74.3	|
3700		5.2	73.5	|
20		6.3	72.4	|
40		6.8	71.9	|
		N3940		
3720		7.8	70.9	|
3700		7.3	71.4	|
3680		6.4	72.3	|
60		5.3	73.4	|
40		4.4	74.3	|
20		3.6	75.1	|
3600		2.4	76.3	|
3580		1.6	77.1	|
60		0.9	77.8	|
40		0.2	78.5	|
20		+0.8	79.5	X

	578.74	N3920	
E3500		+0.3	79.0
20		1.0	77.7
40		1.7	77.0
60		2.3	76.4
80		3.3	75.4
3600		4.1	74.6
20		4.6	74.1
40		6.6	72.1
60		7.8	70.9
		N3900	
3600		5.5	73.2
3580		4.5	74.2
60		3.9	74.8
40		3.3	75.4
20		2.3	76.4
3500		1.6	77.1
3480		1.1	77.6
60		0.9	77.8
		N3880	
3440		2.1	76.6
60		2.3	76.4
80		2.6	76.1
3500		3.1	75.6
20		3.8	74.9
40		4.4	74.3

	578.74	N3880	
3560		5.4	73.3
		N3860	
3520		5.5	73.2
3500		4.7	74.0
3480		4.2	74.5
60		3.6	75.1
40		3.3	75.4
20		2.9	75.8
3400		2.1	76.6
3380		1.4	77.3
		N3840	
3300		2.7	76.0
20		2.1	76.6
40		2.4	76.3
60		2.1	76.6
80		2.5	76.2
3400		3.5	75.2
20		4.3	74.4
40		4.6	74.1
60		4.9	73.8
80		5.4	73.3
3500		6.8	71.9
T.P.		1.93	576.81

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			N3820	
T.P.	0.44	577.25		576.81
3460		77.3	5.5	71.8
40			4.1	73.2
20			3.6	73.7
3400			3.5	73.8
3380			2.7	74.6
60			3.3	74.0
40			3.2	74.1
20			2.7	74.6
3300			2.8	74.5
3280			2.9	74.4
			N3800	
3260			4.7	72.6
80			4.8	72.5
3300			4.3	73.0
20			4.0	73.3
40			3.9	72.4
60			3.9	73.4
80			4.0	73.3
3400			5.0	72.3
20			6.0	71.3
40			6.5	70.8

	577.25		N3780
3400		6.9	704
3380		6.9	70.4
60		6.2	71.1
40		5.8	71.5
20		5.4	71.9
3300		5.4	71.9
3280		6.0	71.3
60		6.2	71.1
40		4.6	72.7
			N3760
3200		4.8	72.5
20		5.4	71.9
40		6.9	704
60		9.3	68.0
80		8.8	68.5
3300		7.7	69.6
20		7.6	69.7
40		7.5	69.8
60		7.8	69.5

N 3740

577.25

E 3360	10.1	67.2
40	9.4	67.9
20	9.3	68.0
3300	9.2	68.1
80	10.1	67.2
60	10.7	66.6
40	8.9	68.4
20	7.0	70.3
3200	6.7	70.6

N 3720

3360	13.6	63.7
40	12.6	64.7
20	12.2	65.1
3300	11.8	65.5
80	12.1	65.2
60	12.8	64.5
40	10.6	66.7
20	9.0	68.3
3200	7.6	69.7
T.P.	12.71	564.54
	0.14	364.68

564.68

N 3700

3360	6.3	58.4
40	5.8	58.9
20	4.5	60.2
3300	3.2	61.5
80	1.8	62.9
60	3.1	61.6
40	1.1	63.6
20	+1.2	65.9
3200	+3.0	67.7
B.M.	5.21	559.47 · checks on B.M. El. 559.39

N 3680

3360			8.0	56.7
40			7.9	56.8
20			7.6	57.1
3300			7.4	57.3
80			6.6	58.1
60			4.6	60.1
40			5.3	59.4
20			4.3	60.4
3200			1.3	63.4
B.M.	5.21	564.60		559.39
T.P.	3.56	560.23	7.93	556.67

560.23

		N3660	
3360		5.1	555.1
40		5.1	555.1
20		5.5	554.7
3300		6.4	553.8
3280		5.9	554.3
60		5.4	554.8
40		4.6	555.6
20		3.9	556.3
3200		2.1	558.1
T.P.	1.75	558.90	3.08 557.15
		N3640	
3360		7.4	551.5
40		4.8	554.1
20		4.7	554.2
3300		4.8	554.1
3280		5.0	553.9
60		7.9	551.0
40		8.3	550.6
20		7.2	551.7
3200		8.1	550.8

558.90

		N3630	
3360		5.4	553.5
40		7.0	551.9
20		7.5	551.4
3300		7.9	551.0
3280		9.7	492
60		11.1	478
40		11.0	479
20		11.2	477
3200		10.0	489
T.P.	2.94	554.31	7.53 551.37
		N3620	
3360		5.1	49.2
40		5.1	492
20		5.9	484
3300		5.6	487
80		5.8	485
60		6.6	477
40		6.9	474
20		7.8	465
3200		8.4	459
T.P.		2.94	551.37
	1.25	552.62	

552 C2

N 3600

3360	5.4	47.2
40	5.0	47.6
20	5.4	47.2
3300	6.0	46.6
80	7.1	45.5
60	7.2	45.4
40	8.1	44.5
20	8.5	44.1
3200	9.0	43.6

North Bank River channel

N 3590

3360	5.4	47.2
40	5.7	46.9
30	5.8	46.8
20	7.4	45.2
3300	8.0	44.6
80	7.8	44.8
60	8.1	44.5
40	8.4	44.2
20	8.4	44.2
3200	8.3	44.3

North Bank River channel

552 C2

N 3580

3360	8.3	44.3
40	8.3	44.3
20	7.9	44.7
3300	7.8	44.8
80	8.0	44.6
60	8.7	43.9
40	8.3	44.3
20	7.7	44.9
3200	5.8	46.8

South Bank River Channel

N 3560

3360	8.2	44.4
40	8.2	44.4
20	8.5	44.1
3300	8.2	44.4
80	7.3	45.3
60	6.4	46.2
40	5.5	47.1
20	5.5	47.1
3200	4.7	47.9

South Bank River channel

552.62

	N 3550	
3360	5.7	46.9
40	5.7	46.9
20	5.8	46.8
3300	5.8	46.8
80	5.8	46.8
60	5.8	46.8
40	5.0	47.6
20	4.2	48.4
3200	4.4	48.2
	N 3540	
3360	5.3	47.3
40	5.3	47.3
20	4.9	47.7
3300	4.7	47.9
80	4.6	48.0
60	4.7	47.9
40	4.6	48.0
20	4.0	48.6
3200	3.8	48.8
T.P.	4.88	547.74

on Coordinate Stake N 3540 E 3360

End. Feb. 17, 1933.

Feb 17 - 1933

Feb. 23, 1933
Simpson
Soper
Remmon

B.M.	3.96	580.77		576.81
			E 3400	
N 3988			+ 4.2	85.0
3918			0.8	80.0
3833			5.8	75.0
			E 3300	
N 3947			+ 4.2	85.0
3884			0.8	80.0
3827			5.8	75.0
			E 3200	
N 3948			+ 4.2	85.0
3893			0.8	80.0
3792			5.8	75.0
T.P.	3.51	582.82	1.46	579.31

		582.82	E 3100		
N 3878			+ 2.2	85.0	
3813			2.8	80.0	
3742			7.8	75.0	
	1.37	571.12	13.07	569.75	
3686			1.1	70.0	
3654			6.1	65.0	
3647			11.1	60.0	
	0.55	558.79	12.88	558.24	
3636			3.8	55.0	
3624			8.8	50.0	
3605			12.9		River Bank
3604			13.8	45.0	River Channel
3573			13.8	45.0	" "
3572			13.2		River Bank
3567			11.1		
3472			8.8	50.0	
3418			3.8	55.0	
		582.82			
T.P.			9.00	573.82	
	0.40	574.22			

E 3000

T.P.	11.20	585.02		573.82	
3813			0.0	585.00	
3763			5.0	80.0	
	0.40	574.22	11.20	573.82	
3711			+0.8	75.0	
3665			4.2	70.0	
3631			9.2	65.0	
T.P.	0.27	562.08	12.41	561.81	
3621			2.1	60.0	
3613			7.1	55.0	
3604			12.1	50.0	
T.P.	3.78	554.63	11.23	550.85	
3583			9.6	45.0	River Bank No. Side
3581			10.7		River channel Bottom
3548			10.9		" " "
3544			9.6	45.0	River Bank So. side
3480			4.6	50.0	
3450			4.6	50.0	
3406			+0.4	55.0	

E 2900

B.M.	3.46	577.28		573.82	
	9.70	584.98	2.00	575.28	
N 3793			0.0	85.0	
3756			5.0	80.0	
T.P.	2.00	577.28	9.70	575.28	
3707			2.3	75.0	
3650			7.3	70.0	
3604			12.3	65.0	
T.P.	0.70	565.30	12.68	564.60	
3595			5.3	60.0	
3587			10.3	55.0	
T.P.	1.76	554.21	12.85	552.45	
3581			4.2	50.0	
3566			9.2	45.0	
3553			10.0		River Bank No. Side
3548			12.2		Bottom of River Channel
3531			10.1		River Bank So. Side
3511			9.2	45.0	
3459			4.2	50.0	
3435			6.8		
3411			4.2	50.0	

Original X sections of Spoil Area

B.M.	6.61	u.vel. 702.21		695.60
			11.22	690.99
	1.19	T 692 .18		

702.2

N3930

E 6170		1.6	00.6
80		1.7	00.5
90		1.8	00.4
6200		2.0	00.2
10		3.0	699.2
20		3.3	98.9
30		3.7	98.5

N3920

6270		4.8	97.4
60		4.5	97.7
50		4.1	98.1
40		5.2	97.0
30		6.2	96.0
20		7.4	94.8
6210		8.1	94.1
6200		7.8	94.4
6190		7.5	94.7
80		8.2	94.0
70		7.7	94.5

	702.2	N3910	
E6170		9.9	92.3
	692.2		
80		5.1	87.1
90		4.5	87.7
6200		4.9	87.3
10		5.4	86.8
20		5.9	86.3
30		3.6	88.6
40		2.7	89.5
50		0.2	92.0
	702.2		
60		7.9	94.3
70		5.6	96.6
80		4.9	97.3
6290		5.4	96.8
	N3900		
6310		6.1	96.1
6300		6.1	96.1
6290		5.4	96.8
80		8.6	93.6
70		12.3	89.9
	692.2		
60		4.5	87.7
50		7.6	84.6

		692.18	N3900	
6240			10.0	682.2
30			11.1	81.1
20			12.1	80.1
10			10.9	81.3
6200			10.9	81.3
6190			8.1	84.1
80			10.9	81.3
70			11.1	81.1
T.P.	0.12	Level 679.66	12.64	679.54
			N3870	
6150			7.7	72.0
60			6.8	72.9
70			4.0	75.7
80			2.3	77.4
90			3.0	76.7
6200			3.8	75.9
10			5.6	74.1
20			6.9	72.8
30			6.0	73.7
40			4.7	75.0
50			2.1	77.6
		692.2		
60			11.5	80.7
70			8.5	83.7
80			5.2	87.0

	692.2	N3890	
6290		0.4	91.8
6300		+3.8	96.0
10		+3.6	95.8
		N3880	
6310		+2.9	95.1
6300		0.0	92.2
6290		6.3	85.9
80		11.4	80.8
	Level 679.66		
70		2.9	76.8
60		6.3	73.4
50		8.7	71.0
40		10.7	69.0
30		12.8	66.9
20		12.6	67.1
10		9.8	69.9
6200		7.7	72.0
6190		3.2	76.5
80		8.8	70.9
70		9.5	70.2
60		11.0	68.7
50		11.6	68.1

		679.66	N 3870	
T.P.	2.43	669.31	12.78	666.88
6150			6.0	63.3
60			5.3	64.0
70			4.0	65.3
80			2.4	66.9
90			0.5	68.8
6200			3.5	65.8
10			5.9	63.4
20			7.6	61.7
30			8.4	60.9
40			7.8	61.5
50			5.0	64.3
60			2.5	66.8
		Level 679.7		
70			9.2	70.5
80			3.8	75.9
90			+5.3	85.0
6300			+8.5	88.2
10			+13.3	93.0
20			+15.7	95.4
			N 3860	
6330			+15.7	~~95.4~~ 95.4
20			+12.9	92.6
10			+7.5	87.2

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N3860

	Level		
6300	679.7	+6.5	86.2
90		+4.2	83.9
80		1.2	78.5
70		9.6	70.1
	Co ↑ 669.31		
60		7.3	62.0
50		7.2	62.1
40		10.8	58.5
30		12.5	56.8
20		12.1	57.2
6210		10.3	59.0
00		9.3	60.0
6190		3.8	65.5
80		6.3	63.0
70		4.3	65.0
60		8.8	60.5
50		9.7	59.6

N3850

6150		13.0	56.3
60		11.9	57.4
70		11.2	58.1
80		10.8	58.5
90		11.3	58.0
6200		12.8	56.5

	663.1	N3850	
6210		8.9	54.2
20		11.9	51.2
30		6.1	57.0
40		8.7	54.4
50		4.4	58.7
	669.3		
60		4.3	65.0
	Level 679.7		
70		7.5	72.2
80		1.1	78.6
90		+0.9	80.6
6300		+2.3	82.0
10		+3.5	83.2
20		+4.6	84.3
		N3840	
6320		+0.5	80.2 Cont. in Book 4438
10		1.2	78.5
6300		1.8	77.9
6290		3.0	76.7
80		4.6	75.1
70		7.6	72.1
60		13.8	65.9
	669.3		
50		7.7	61.6

		659.1	N3840			
6240			4.9	54.2		
30			8.5	50.6		
20			12.7	46.4		
10			9.1	50.0		
6200			6.4	52.7		
6190			4.9	54.2		
80			4.1	55.0		
70			4.6	54.5		
60			4.9	54.2		
50			6.9	52.2		
		669.31				
Set B.M.			12.74	656.57	End	July 24
	0.32	Co. of Level 656.89			Start	July 25
	1.08	644.94	13.03	643.86		
		Co. of Level 656.9	N3830			
E6150			8.0	48.9		
60			6.0	50.9		
70			6.1	50.8		
80			6.0	50.9		
90			6.1	50.8		
4200			↑	51.4		
10			interpolate	52.0		
20			↓	52.5		

		656.89	N3830		
6230			interpolate	53.1	
6240			3.2	53.7	
TiP.	13.44	669.55	0.78	656.11	
6250			10.7	58.9	
6260			4.3	65.3	
70			+2.0	71.6	
80			+1.5	71.1	
90			+2.6	72.2	
6300			+3.6	73.2	
10			+3.3	72.9	
20			+14.0	83.6	Cont. in Book 448-2
			N3820		
6320			0.0	69.6	Cont. in Book 448-3
10			1.4	68.2	
6300			1.9	67.7	
6290			2.1	67.5	
80			1.9	67.7	
70			4.0	65.6	
60			7.3	62.3	
50			11.1	57.9	
		Co. T 656.9			
40			4.6	52.3	
30			12.1	44.8	
20			18.8	38.1	
10			14.5	42.4	

	656.9	N3820	
6200		12.6	44.3
6190		11.0	45.9
80		10.2	46.7
70		10.2	46.7
60		10.8	46.1
50		12.3	44.6
	644.9	N3810	
6150		4.7	40.2
60		2.8	42.1
70		1.7	43.2
80		3.0	41.9
90		4.6	40.3
6200		7.4	37.5
10		10.2	34.7
20		9.1	35.8
30		+0.4	45.3
	656.9		
40		5.3	51.6
	669.55		
50		14.1	55.5
60		11.1	58.5
70		8.5	61.1
80		7.4	62.2

		669.55	N3810		
6290			5.8	63.8	
6300			5.8	63.8	
10			5.5	64.1	
20			4.5	65.1	Cont. in Book 448/3
			N3800		
T.P.	4.33	660.44		656.11	
T.P.	1.02	648.26	13.20	647.24	
		660.44			Cont. in Book 448.3
6320			+0.4	60.8	
10			0.7	59.7	
6300			2.0	58.4	
90			2.0	58.4	
80			2.8	57.6	
70			4.0	56.4	
6260			4.8	55.6	
50			7.1	53.3	
40			11.1	49.3	
		648.26			
30			3.3	45.0	
20			11.5	36.8	
10			15.1	33.2	
6200			17.6	30.7	

		level 648.26	N3800	
6190			10.6	37.7
80			14.0	34.3
70			9.5	38.8
60			9.0	39.3
50			9.6	38.7
			N3790	
6150			15.7	32.6
60			16.5	31.8
70			19.8	28.5
80			21.3	27.0
90			22.0	26.3
6200			16.4	31.9
10			12.0	36.3
20			8.7	39.6
30			4.5	43.8
40			0.9	47.4
		660.44		
50			10.3	50.1
60			8.3	52.1
70			8.0	52.4
80			6.5	53.9
90			5.3	55.1
6300			6.4	54.0
10			5.4	55.0
20			3.8	56.6

		660.44		N3780
6320			8.2	52.2
10			9.9	50.5
6300			10.4	50.0
6290			11.6	48.8
80			12.4	48.0
70			12.6	47.8
60			12.8	47.6
		Level 648.26		
50			2.2	46.1
40			3.6	44.7
30			7.1	41.2
20			10.3	38.0
10			12.6	35.7
6200			16.3	32.0
6190			23.1	25.2
80			25.0	23.3
70			28.5	19.8
60			26.0	22.3
50			23.2	25.1
T.P.			12.82	635.44
	0.20	635.64		
			N3770	
6150			19.2	16.4

	635.64	N3770	
6160		18.6	17.0
70		19.5	16.1
80		12.6	23.0
90		8.3	27.3
6200		4.4	31.2
10		2.6	33.0
	648.26		35.5
20		12.8	~~36.5~~
30		11.3	37.0
40		9.5	38.8
50		7.9	40.4
60		6.7	41.6
70		4.5	43.8
80		4.4	43.9
90		2.9	45.4
6300		1.7	46.6
10		1.1	47.2
20		0.1	48.2
		N3760	
6320		3.3	45.0
10		4.6	43.7
6300		5.4	42.9
6290		6.4	41.9
80		8.1	40.2

	648.26	N3760	
6270		9.1	39.2
60		10.8	37.5
50		12.0	36.3
40		13.7	34.6
	635.64		
30		1.7	33.9
20		3.1	32.5
10		4.6	31.0
6200		5.5	30.1
6190		7.3	28.3
80		12.1	23.5
70		15.2	20.4
60		21.9	13.7
50		22.8	12.8
Set B.M.		4.18	631.46

Continued in P.B. 448 pages 6 and 13

End July 25

B.M.	11.84	720.20		696.36
			0.58	707.62
	12.34	719.96		
			N4590	
	1.54	level 708.87	12.63	707.33
4420			11.7	97.2
30			7.3	01.6
40			1.5	07.4
		720.0		
50			12.0	08.0
			N4580	
4480			10.7	09.3
70			10.7	093
60			11.1	08.9
		708.9		
50			4.9	04.0
40			7.4	01.5
30			8.8	00.1
4420			14.8	94.1 from P58
			N4570	
4420			17.6	91.3 Page 58
30			16.1	92.8
40			13.6	95.3
50			9.8	99.1

	708.9	N4570	
4460		7.7	01.2
70		5.5	03.4
80		2.9	06.0
90		0.3	08.6
	720.0		
4500		9.4	10.6
10		10.1	09.9
		N4560	
4530		9.0	11.0
20		9.1	10.9
10		11.2	08.8
	708.9		
4500		3.4	05.5
4490		6.5	02.4
80		10.1	98.8
70		12.8	96.1
60		15.6	93.3
50		17.2	91.7
40		18.1	90.8
30		19.3	89.6
20		16.5	92.4

Page 58

	4 708.9	N4550	Cont. P. 58
4420		24.0	684.9
30		22.7	86.2
40		21.9	87.0
50		22.1	86.8
60		21.4	87.5
70		16.5	92.4
80		15.8	93.1
90		12.1	96.8
4500		9.5	99.4
10		6.5	02.4
20		1.6	07.3
	↑ 720.0		
30		8.2	11.8
40		8.0	12.0
		N4540	
4550		7.2	12.8
40		9.4	10.6
	4 708.9		
30		2.8	06.1
20		7.3	01.6
10		8.9	00.0
4500		15.2	93.7
4490		16.5	92.4
80		17.0	91.9

		708.87	N4540	
4470			20.7	688.2
60			24.5	84.4
50			24.7	84.2
40			24.8	84.1
30			25.5	83.4
44 20			26.7	82.2
T.P.	0.44	City ⊼ 696.60	12.71	696.16
	0.28	Co. ⊼ 684.14	12.74	683.86
			N4530	
		708.9		
4570			+5.0	13.9
60			+5.1	14.0
50			+0.5	09.4
40			5.3	03.6
30			9.4	99.5
20			14.3	94.6
		City ⊼ 696.6		
10			5.8	90.8
4500			7.4	89.2
4490			6.0	90.6
80			7.2	89.4
70			11.0	85.6
60			13.6	83.0
50			14.6	82.0

	Co. π 684.1	N4530	
4440		1.8	82.3
30		2.7	81.4
20		3.5	80.6
		N4520	
4420		5.4	78.7
30		4.8	79.3
40		4.3	79.8
50		4.8	79.3
	City π 696.6		
60		15.5	81.1
70		11.4	85.2
80		9.1	87.5
90		7.0	89.6
4500		10.6	86.0
10		7.0	89.6
20		2.5	94.1
	4, 708.9		
30		12.5	96.4
40		9.4	99.5
50		6.0	02.9
60		1.6	07.3
70		+3.5	12.4
80		+6.2	15.1
90		+6.0	14.9

		708.9	N4510	
4610			+7.0	15.9
4600			+7.2	16.1
4590			+3.5	12.4
80			+0.6	09.5
70			5.2	03.7
60			7.5	01.4
50			10.5	98.4
40			13.5	95.4
		City ⊼ 696.6		
30			4.0	92.6
20			7.4	89.2
10			8.3	88.3
4500			10.0	86.6
4490			11.8	84.8
80			12.3	84.3
70			14.7	81.9
		Co. ⊼ 684.1		
60			4.5	79.6
50			6.4	77.7
40			7.3	76.8
30			7.4	76.7
4420			8.1	76.0

Cont. from Page 59

	Co. ↑ 684.1	N 4500	Cont. from Page 59
4420		10.6	73.5
30		10.3	73.8
40		10.0	74.1
50		7.8	76.3
60		3.5	80.6
70		2.0	82.1
80		2.3	81.8
	City ↑ 696.6		
90		13.5	83.1
4500		15.1	81.5
10		11.7	84.9
20		9.8	86.8
30		7.3	89.3
40		3.8	92.8
50		0.7	95.9
	U ↑ 708.9		
60		10.7	98.2
70		7.6	01.3
80		5.2	03.7
90		3.0	05.9
4600		0.7	08.2
10		+2.7	11.6
20		+7.8	16.7
30		+7.7	16.6

	L. 708.9	N4490	
4650		+8.8	17.7
40		+8.6	17.5
30		+5.4	14.3
20		+1.1	10.0
10		3.7	05.2
4600		7.6	01.3
4590		7.8	01.1
80		8.0	00.9
70		10.8	98.1
	C.H. 696.6		
60		0.6	96.0
50		3.5	93.1
40		7.7	88.9
30		10.8	85.8
20		12.0	84.6
	Co. 684.1		
10		1.7	82.4
4500		5.4	78.7
4490		5.5	78.6
80		5.8	78.3
70		6.1	78.0
60		5.7	78.4
50		9.3	74.8
40		12.4	71.7

	Co. ℄ 684.1	N4490	
4430		14.2	69.9
20		13.1	71.0
		N4480	
4420		17.1	67.0
30		17.3	66.8
40		14.7	69.4
50		12.3	71.8
60		10.5	73.6
70		9.3	74.8
80		8.0	76.1
90		7.7	76.4
4500		6.5	77.6
10		3.2	80.9
20		3.0	81.1
30		1.7	82.4
	City ℄ 696.6		
40		11.1	85.5
50		7.1	89.5
60		5.2	91.4
70		2.8	93.8
80		0.6	96.0
	L. 708.9		
90		12.7	96.2
4600		12.9	96.0

Cont. from Page 60

cont. from Page 60

	708.9 ~~702.9~~	✓N4480 ✓	
4610		8.7	00.2 ✓
20		4.6	04.3 ✓
30		0.0	08.9 ✓
40		+4.1	13.0 ✓
50		+9.6	18.5 ✓
60		+9.4	18.3 ✓
		✓N4470	
4670		+10.3	~~98.6~~ 19.2
60		+9.4	18.3 ✓
50		+4.0	12.9 ✓
40		0.6	08.3 ✓
30		5.3	03.6 ✓
20		7.9	01.0 ✓
10		11.0	97.9 ✓
	Cty π 696.6		
4600		4.8	91.8 ✓
4590		4.4	92.2 ✓
80		4.2	92.4 ✓
70		5.4	91.2 ✓
60		7.6	89.0 ✓
50		10.6	86.0 ✓
40		13.3	83.3 ✓

	Co. 7 684.1	N4470	
4530		5.2	78.9
20		5.3	78.8
10		4.7	79.4
4500		8.9	75.2
4490		9.3	74.8
80		9.8	74.3
70		10.3	73.8
60		13.4	70.7
50		15.4	68.7
40		16.3	67.8
30		19.4	64.7
4420		19.1	65.0 Page 60
		N4460	Page 60
4420		22.6	61.5
30		21.2	62.9
40		19.1	65.0
50		17.6	66.5
60		16.3	67.8
70		17.2	66.9
80		15.5	68.6
82		4.5	79.6
90		2.9	81.2
97		3.3	80.8
4500		11.2	72.9

		Co. ↑ 684.1	N4460	
10			8.4	75.7
4520			8.8	75.3
30			6.6	77.5
40			3.2	80.9
		L.t.y ↑ 696.6		
50			12.8	83.8
60			10.9	85.7
70			8.8	87.8
			N4450	
		Co. ↑ 684.14		
T.P	0.24	level 671.85	12.53	671.61
4500		684.1 →	13.5	70.6
4498			6.7	77.4 Gigantic Boulder
90			6.6	77.5
83			8.0	76.1
		671.9		
80			5.0	66.9
70			8.6	63.3
60			6.3	65.6
50			8.9	63.0
40			7.3	62.6
30			10.5	61.4
20			11.7	60.2

Cont. from Page 61

		671.85	N4440		
4420			14.3	57.6	Page 61
30			13.0	58.9	
40			12.5	59.4	
50			12.2	59.7	
60			13.3	58.6	Cont. in
			N4430		
T.P.	0.0	658.8	13.05	658.80	
4420			3.4	55.4	from Page 61
30			2.8	56.0	
40			2.5	56.3	
50			2.1	56.7	
60			1.5	57.3	
			N4420		
4420			6.2	52.6	from Book 448-24
30			4.9	53.9	
40			5.6	53.2	
50			3.8	55.0	
60			6.8	52.0	
			N4440		
4420			9.3	49.5	from Book 448-28
30			9.3	49.5	
40			9.5	49.3	
50			9.7	49.1	
60			9.5	49.3	

Original X Sections on Downstr. Spoil. Aug 5 - 1933

		level			
T.P.	11.86	708.16 ✓		696.30	
			13.02	695.14 ✓	
		B.T			
	0.13	695.27 ✓			
T.P.			13.00	682.27 ✓	
	0.05	u.T 682.32 ✓			
B.M. Check			15.0	667.3	667.28
			N4630 ✓		
		u, 708.2			
4400			1.8	706.4 ✓	
4395			1.7	06.8 ✓	
90			3.5	04.7 ✓	
80			8.1	00.1 ✓	
70			14.6	693.6 ✓	
		B.T 695.3			
60			7.0	88.3 ✓	
50			11.1	84.2 ✓	
		682.3			
40			2.0	80.3 ✓	
30			4.8	77.5 ✓	
20			8.0	74.3 ✓	
4310			11.6	70.7 ✓ Page 68	

Plotting on Sh. 9-12-34

	682.3	N4620 ✓	
4310		13.8	668 5 ✓ Page 68
20		10.4	71.9 ✓
30		7.1	75.2 ✓
	695.3		
40		16.0	79.3 ✓
50		11.9	83.4 ✓
60		8.5	86.8 ✓
70		4.2	91.1 ✓
	708.2		
80		12.2	96.0 ✓
90		7.0	701.2 ✓
4400		4.5	03.7 ✓
10		1.2	07.0 ✓
		N4610 ✓	
4430		1.5	06.7 ✓
25		1.2	07.0 ✓
20		3.4	04.8 ✓
10		7.3	00.9 ✓
4400		10.4	697.8 ✓
4390		12.1	96.1 ✓
80		13.7	94.5 ✓
	695.3		
70		3.7	91.6 ✓
60		8.7	86.6 ✓
50		12.7	82.6 ✓

Plotting on Sh. 9-12-34

	695.3	N4610 ✓	
43 40		16.3	679.0 ✓
	682.3		
30		6.9	75.4 ✓
20		11.0	71.3 ✓
10		14.3	68.0 ✓
		N4600 ✓ Page 69	
43 10		15.5	66.8 ✓ Page 69
20		10.8	71.5 ✓
30		6.7	75.6 ✓
40		3.2	79.1 ✓
	695.3		
50		13.5	81.8 ✓
60		8.9	86.4 ✓
70		6.7	88.6 ✓
80		4.1	91.2 ✓
	708.2		
90		12.8	95.4 ✓
44 00		13.7	94.5 ✓
10		14.1	94.1 ✓
20		7.6	700.6 ✓
30		2.8	.05.4 ✓
35		0.0	08.2 ✓
40		0.1	08.1 ✓

Plotting ck 9-12-24 EBH

57

	708.2	N4590 ✓	cont. on Page 43
44 15		12.4	695.8 ✓
10		15.5	92.7 ✓
44 05		10.1	98.1 ✓
44 00		11.7	96.5 ✓
	695.3		
95		5.7	89.6 ✓
90		6.4	88.9 ✓
80		7.3	88.0 ✓
70		9.2	86.1 ✓
60		11.3	84.0 ✓
50		11.8	83.5 ✓
40		16.5	78.8 ✓
	682.3		
30		5.2	77.1 ✓
20		10.8	71.5 ✓
43 10		15.6	66.7 ✓ Page 69
		N4580 ✓	
43 10		16.3	66.0 Page 69
20		12.1	70.2 ✓
30		7.3	75.0 ✓
40		4.3	78.0 ✓
50		2.3	80.0 ✓
60		0.0	82.3 ✓

Plotting ck from 9-12-24 EBH

	695.3	N4580 ✓		
4370		11.0	84.3 ✓	
80		10.6	84.7 ✓	
90		9.4	85.9 ✓	
4400		9.1	86.2 ✓	
10		3.7	91.6 ✓	
4417		2.4	92.9	Page 43
		N4570 ✓		
4405		7.8	87.5	Page 43
4400		9.2	86.1 ✓	
4390		13.3	82.0 ✓	
	682.3			
80		2.3	80.0 ✓	
70		1.6	80.7 ✓	
60		2.0	80.3 ✓	
50		4.5	77.8 ✓	
40		7.4	74.9 ✓	
30		10.2	72.1 ✓	
20		13.9	68.4 ✓	
4310		17.7	64.6	Page 70
		N4560 ✓		
4310		19.5	62.8	Page 70
20		15.9	66.4 ✓	
30		13.3	69.0 ✓	
40		10.3	72.0 ✓	
50		5.6	76.7 ✓	

	682.32		N4560 ✓	
4360		4.5	77.8 ✓	
70		4.1	78.2 ✓	
80		5.5	76.8 ✓	
90		1.1	81.2 ✓	
4400		+2.8	85.1 ✓	
			N4550 ✓	
4400		0.7	Cont. 81.6 ✓	
4390		2.8	79.5 ✓	
80		5.8	76.5 ✓	
70		7.1	75.2 ✓	
60		7.0	75.3 ✓	
50		8.7	73.6 ✓	
40		13.3	69.0 ✓	
T.P.	L.π 682.32	13.28	669.04 ✓	
	-(+0.03) B.π 669.01 ✓			
30		3.0	66.0 ✓	
20		4.8	64.2 ✓	
4310		8.0	61.0 ✓	
		N4540 ✓		
4310		11.6	57.4	Page 70
20		10.0	59.0 ✓	
30		9.2	59.8 ✓	
40		5.5	63.5 ✓	
	682.3			
50		13.3	69.0 ✓	

Plotting ch 9-12-34 [illegible]

682.3

N4540

4360.	9.5	72.8
70	9.5	72.8
80	6.1	76.2
90	4.0	78.3

Cont. P. 45

N4530

Cont'd on Page. 47

4390	5.4	76.9
80	7.1	75.2
70	8.6	73.7
60	10.8	71.5
50	12.8	69.5
669.01		
40	2.5	66.5
30	8.2	60.8
20	12.8	56.2
4310	16.3	52.7

N4520

4310	17.9	51.1
20	11.8	57.2
30	6.1	62.9
40	2.3	66.7
50	1.4	67.6
682.3		
60	9.2	73.1
70	10.8	71.5
80	8.3	74.0
4390	6.9	75.4

682.3

N4510

Cont. on Page 48

4400	7.3	75.0
4390	8.7	73.6
80	10.2	72.1
70	12.2	70.1
60	15.0	67.3
669.0		
50	4.7	64.3
40	6.4	62.6
30	9.2	59.8
20	12.7	56.3
4310	18.1	50.9

Cont. from Book 448 21

N4500

Cont'd in Book 448 21

4310	19.4	49.6
20	15.5	53.5
26	12.9	56.1
30	4.7	64.3
40	3.0	66.0
50	5.7	63.3
60	3.5	65.5
682.3		
70	12.8	69.5
80	11.1	71.2
90	10.0	72.3
4400	9.4	72.9

Setting off 9-12-34 EBH

		682.3	N4490 ✓		
4400			12.0	70.3 ✓	Cont. on Page 51
4390			11.3	71.0 ✓	
80			14.0	68.3 ✓	
		669.0			
70			2.7	66.3 ✓	
60			4.9	64.1 ✓	
50			6.2	62.8 ✓	
40			11.1	57.9 ✓	
30			13.8	55.2 ✓	
20			17.0	52.0 ✓	
4310			20.4	48.6 ✓	cont. from Book 448-22 End Aug 5
					Start Aug 11
B.M.	1.73	669.01 ✓		667.28	
			12.62	656.39 ✓	
	0.34	B.T. 656.73 ✓			
	0.52	L.T. 644.58 ✓	12.67	644.06 ✓	
		669.0	N4480 ✓		
4400			1.8	67.2 ✓	Cont Page 51
4390			2.3	66.7 ✓	
80			3.7	65.3 ✓	
70			4.1	64.9 ✓	
60			6.4	62.6 ✓	
50			9.3	59.7 ✓	
40			13.2	55.8 ✓	

60

	656.7	N4480 ✓	
4330	3.5	53.2 ✓	
20	6.6	50.1 ✓	
4310	9.8	46.9 ✓	Cont. from 448-22
		N4470 ✓	
4310	11.4	45.3 ✓	Cont in Book 448/22
20	7.9	48.8 ✓	
30	5.4	51.3 ✓	
40	656.7 → 3.0	53.7 ✓	
50	H.I. 669.0 ↘ 12.3	56.7 ✓	
60	8.7	60.3 ✓	
70	6.2	62.8 ✓	
80	7.0	62.0 ✓	
90	4.5	64.5 ✓	
4400	4.9	64.1 ✓	Page 53
10	is long gone.		
		N4460 ✓	
4410	7.0	62.0 ✓	Page 53
4400	6.1	62.9 ✓	
4390	9.0	60.0 ✓	
80	9.7	59.3 ✓	
70	10.8	58.2 ✓	
60	11.3	57.7 ✓	
50	15.1	53.9 ✓	

Adjusting of 2-12-34 GBH

New H.I. B.T.
656.7

N4460

4340		4.0	52.7
30		8.1	48.6
20		10.5	46.2
4310		13.2	43.5

Cont. in Book 448/23

N4450

4310		15.5	41.2
20		12.9	43.8
30		10.4	46.3
40		8.1	48.6
50		5.9	50.8
60		3.5	53.2
70		2.6	54.1
80		1.5	55.2
	669.0		
90		12.2	56.8
4400		11.9	57.1
10		10.8	58.2

N4440

4410		12.4	56.6
	656.7		
4400		4.8	51.9
4390		5.0	51.7
80		5.8	50.9
70		7.0	49.7
60		7.5	49.2

Cont. from Page 55

656.7

N4440

4350		9.4	47.3
40		10.9	45.8
30		13.0	43.7
20		15.1	41.6
4310		16.9	39.8

448-2A

N4430

4310		18.4	38.3
20		17.3	39.4
30		15.2	41.5
40		13.9	42.8
50		12.1	44.6
60		10.7	46.0
70		11.1	45.6
80		11.3	45.4
90		9.2	47.5
4400		6.5	50.2
10		4.0	52.7

Plotting ch 9-12-34 EBH

Cont. on Page 55

B.M. End Aug 11-1933

Bench Levels on Aug 14-1933

B.M.	8.19	675.47		667.28
Set B.M.			7.05	668.42
	1.64	670.06		
Set B.M.			5.87	664.19
	2.39	666.58		
			12.37	654.21

Aug 15 – 1933

		Level		
B.M.	12.77	681.19 ✓		668.42 ✓
T.P.	12.83	693.60 ✓	0.42	680.77 ✓
T.P.			0.08	693.52
	5.37	H.I. 698.89 ✓		

N4860 ✓

4200	5.6	93.3 ✓
10	5.7	93.2 ✓
20	5.6	93.3 ✓

N4850 ✓

4200	9.0	89.9 ✓
10	4.8	94.1 ✓
20	5.0	93.9 ✓
30	5.1	93.8 ✓

N4840 ✓

4200	13.8	85.1 ✓
10	8.3	90.6 ✓
20	4.2	94.7 ✓
30	4.7	94.2 ✓
40	4.4	94.5 ✓

N4830 ✓

4250	3.7	95.2 ✓
40	4.2	94.7 ✓
30	3.6	95.3 ✓
20	8.8	90.1 ✓
10	14.0	84.9 ✓
4200	19.0	79.9 ✓

H.I. 698.89

N4820 ✓

4200	24.7	74.2 ✓
10	19.5	79.4 ✓
20	13.7	85.2 ✓
30	8.4	90.5 ✓
40	3.0	95.9 ✓
50	3.5	95.4 ✓

N4810 ✓

4260	2.6	96.3 ✓
50	2.6	96.3 ✓
40	7.7	91.2 ✓
30	12.3	86.6 ✓
20	17.1	81.8 ✓
10	23.0	75.9 ✓
4200	28.2	70.7 ✓

N4800 ✓

4200	26.3	72.6 ✓
10	22.5	76.4 ✓
20	17.8	81.1 ✓
30	15.4	83.5 ✓
40	10.6	88.3 ✓
50	4.7	94.2 ✓
55	1.7	97.2 ✓
70	2.0	96.9 ✓

N4790

		4.T 698.89	
4280		1.4	97.5
70		1.6	97.3
60		1.3	97.6
50		8.4	90.5
40		13.8	85.1
30		17.2	81.7
	4. 681.2		
20		2.3	78.9
10		6.8	74.4
4200		10.8	70.4

N4780

4200		12.4	68.8
10		8.3	72.9
20		4.2	77.0
30		1.3	79.9
	4.T 698.89		
40		15.7	83.2
50		11.2	87.7
60		5.2	93.7
70		0.3	98.6
80		1.2	97.7
T.P.	10.37	4.T 703.89	5.37 693.52

N4770

		4.T 703.9	
4290		5.7	98.2
80		5.6	98.3
70		5.6	98.3
60		13.3	90.6
50		19.1	84.8
40		22.6	81.3
	681.2		
30		1.9	79.3
20		7.0	74.2
10		10.7	70.5
4200		14.6	66.6

N4760

4200		16.8	64.4
10		11.2	70.0
20		8.8	72.4
30		4.1	77.1
40		2.0	79.2
	4.T 703.9		
50		21.0	82.9
60		16.7	87.2
70		11.2	92.7
80		5.0	98.9
90		5.6	98.3
4300		5.1	98.8

From Road 448-37

Plotting checked 9-12-3 v.L.B.M.

	703.9	N4750 ✓	
4300		5.1	98.8 ✓
4290		5.0	98.9 ✓
80		8.0	95.9 ✓
70		15.0	88.9 ✓
60		18.0	85.9 ✓
50		21.9	82.0 ✓
	681.2		
40		4.0	77.2 ✓
30		6.6	74.6 ✓
20		10.6	70.6 ✓
10		12.8	68.4 ✓
4200		19.3	61.9 ✓ from Cook 448-32
		N4740 ✓	
4200		20.3	60.9 ✓ from 448-32
10		14.3	66.9 ✓
20		11.8	69.4 ✓
30		9.4	71.8 ✓
40		6.4	74.8 ✓
50		0.8	80.4 ✓
	703.9		
60		22.4	81.5 ✓
70		18.5	85.4 ✓
80		13.5	90.4 ✓
90		9.3	94.6 ✓
95		5.1	98.8 ✓
4310		4.4	99.5 ✓

(X)

	703.9	N4730 ✓ 64	
4320		3.9	100.0 ✓
4300		4.5	99.4 ✓
4290		11.7	92.2 ✓
80		17.3	86.6 ✓
70		20.8	83.1 ✓
60		24.4	79.5 ✓
	681.2		
50		4.3	76.9 ✓
40		7.3	73.9 ✓
30		11.6	69.6 ✓
20		14.0	67.2 ✓
10		17.1	64.1 ✓
4200		21.6	59.6 ✓ from Cook 448-33
		N4720 ✓	from 448-33
4200		23.4	57.8 ✓
10		17.7	63.5 ✓
20		16.3	64.9 ✓
30		13.5	67.7 ✓
40		9.5	71.7 ✓
50		5.6	75.6 ✓
60		2.9	78.3 ✓
	703.9		
70		23.2	80.7 ✓
80		21.0	82.9 ✓

	703.9	N4720 ✓	
4290		15.3	88.6 ✓
4300		9.2	94.7 ✓
10		3.5	00.4 ✓
20		3.5	00.4 ✓
		N4710 ✓	
4330		3.3	00.6 ✓
20		3.0	00.9 ✓
10		7.8	96.1 ✓
4300		13.1	90.8 ✓
4290		19.1	84.8 ✓
80		22.7	81.2 ✓
70		25.1	78.8 ✓
60	681.2	4.9	76.3 ✓
50		8.7	72.5 ✓
40		12.0	69.2 ✓
30		14.9	66.3 ✓
20		18.1	63.1 ✓
10		20.9	60.3 ✓
4200		24.4	56.8 ✓ 448/33
		N4700 ✓	
4200		26.3	54.9 ✓ 448/33
10		23.2	58.0 ✓
20		20.4	60.8 ✓
30		13.9	67.3 ✓
40		13.9	67.3 ✓

Plotting detail 9-12-34 BM

	681.2	N4700 ✓	65
4250		10.3	70.9 ✓
60		6.3	74.9 ✓
70		3.2	78.0 ✓
	703.89		
80		23.7	80.2 ✓
90		23.3	80.6 ✓
4300		18.5	85.4 ✓
10		14.3	89.6 ✓
20		8.3	95.6 ✓
30		3.9	7000 ✓
35		2.7	01.2 ✓
50		2.7	01.2 ✓
		N4690 ✓	
T.P.	5.77	U.T. ✓ 707.92	1.74 702.15 ✓
4360			5.9 02.0 ✓
50			6.2 01.7 ✓
40			7.9 700.0 ✓
30			14.0 93.9 ✓
20			17.6 90.3 ✓
10			21.3 86.6 ✓
4300			26.7 81.2 ✓
B.M.	12.77	681.19 ✓	668.42 ✓
T.P.	0.65	Level 680.47 ✓	1.37 679.82 ✓
4290			1.5 79.0 ✓

	680.5	N4690	
4280		5.0	75.5
70		7.2	73.3
60		9.2	71.3
50		12.3	68.2
40		14.7	65.8
30		14.9	65.6
20		21.8	58.7
10		24.9	55.6
4200		27.1	53.4 448/34
		N4680	
4200		29.6	50.9 448-34
10		26.1	54.4
20		23.0	57.5
30		20.6	59.9
40		16.9	63.6
50		16.1	64.4
60		12.0	68.5
70		10.0	70.5
80		7.2	73.3
90		4.7	75.8
	707.9		
4300		29.2	78.7
10		25.9	82.0
20		21.2	86.7
30		16.9	91.0

	4.7 707.9	N4680	
4340		14.3	93.6
50		10.0	97.9
55		6.2	01.7
70		5.4	02.5
		N4670	
70		5.3	02.6
60		5.2	02.7
50		13.3	94.6
40		16.5	91.4
30		21.1	86.8
20		23.0	84.9
10		26.4	81.5
	680.5		
4300		2.2	78.3
4290		7.0	73.5
80		11.1	69.4
70		13.6	66.9
60		15.8	64.7
50		18.2	62.3
40		19.6	60.9
30		23.1	57.4
20		25.6	54.9
10		28.2	52.3
4200		29.5	51.0 448/34

Plotting checked 9-12-34 [illegible]

680.5

N4660

4200	33.5	47.0
10	30.1	50.4
20	27.9	52.6
30	25.2	55.3
40	23.8	56.7
50	21.0	59.5
60	18.0	62.5
70	16.0	64.5
80	10.3	70.2
90	7.0	73.5
4300	2.6	77.9
10	1.0	79.5

707.9

20	26.4	81.5
30	24.1	83.8
40	21.4	86.5
50	17.0	9.09
60	9.8	98.1
70	4.2	03.7
80	4.8	03.1

N4650

4390	4.1	03.8
80	3.7	04.2
70	6.0	01.9
60	12.9	95.0

707.9

N4650

4350	20.0	87.9
40	23.2	84.7
30	25.5	82.4

680.5

20	1.4	79.1
10	4.4	76.1
4300	6.5	74.0
4290	8.6	71.9
80	9.0	71.5
70	16.2	64.3
60	19.6	60.9
50	25.4	55.1
40	25.7	54.8
30	27.9	52.6
20	30.4	50.1
10	33.2	47.3
4200	35.3	45.2

N4640

4200	36.7	43.8
10	35.0	45.5
20	32.0	48.5
30	30.5	50.0
40	29.3	51.2
50	26.2	54.3
60	22.1	58.4

		680.47		N4640 ✓	
4270			17.1	63.4 ✓	
80			11.6	68.9 ✓	
90			8.3	72.2 ✓	
4300			9.3	71.2 ✓	
Set B.M.			7.76	672.71 ✓	
4310			7.0	73.5 ✓	
20			4.8	75.7 ✓	
30			1.4	79.1 ✓	
		707.9			
40			24.7	83.2 ✓	
50			21.8	86.1 ✓	
60			16.1	91.8 ✓	
70			10.5	97.4 ✓	
80			3.5	04.4 ✓	
90			2.0	05.9 ✓	
4400			3.5	04.4	End Aug 15
B.M.	0.49	Level 673.20 ✓		672.71 ✓	Start Aug 16
T.P.			11.96	661.24 ✓	
	0.34	661.58 ✓			

Aug 16 - 1933

68

	673.2		N4630 ✓	Page 56
4300		3.8	69.4 ✓	
4290		5.6	67.6 ✓	
80		5.5	67.7 ✓	
70	661.6	12.0	63.6 ✓	
60		4.8	56.8 ✓	
50		7.8	53.8 ✓	
40		13.1	48.5 ✓	
30		14.0	47.6 ✓	
20		16.5	45.1 ✓	
10		18.2	43.4 ✓	
4200		20.5	41.1 ✓	448/35
			N4620 ✓	
4200		23.4	38.2 ✓	448/35
10		20.9	40.7 ✓	
20		19.7	41.9 ✓	
30		17.7	43.9 ✓	
40		12.7	48.9 ✓	
50		9.1	52.5 ✓	
60		6.2	55.4 ✓	
70		3.4	58.2 ✓	
80		0.0	61.6 ✓	
	673.20			
90		10.5	62.7 ✓	
4300		7.7	65.5	Page 56
Check (and how).		5.92	667.28	667.28 ✓

oh yeah? why erase?

Plotting 942-34 C.B.H.

673.2

N4610 ✓

4300	10.2	63.0 ✓ Page 57
4290	12.6	60.6 ✓
80	4.7	56.9 ✓
70	6.0	55.6 ✓
60	8.0	53.6 ✓
50	9.9	51.7 ✓
40	12.9	48.7 ✓
30	18.1	43.5 ✓
20	22.8	38.8 ✓
10	25.2	36.4 ✓
4200	27.6	34.0 ✓ 448-35

661.6 →

N4600 ✓

448-36

4200	29.8	31.8 ✓
10	25.3	36.3 ✓
20	21.0	40.6 ✓
30	17.4	44.2 ✓
40	14.3	47.3 ✓
50	11.4	50.2 ✓
60	10.1	51.5 ✓
70	9.2	52.4 ✓
80	6.5	55.1 ✓
90	3.1	58.5 ✓
4300	+0.8	62.4 ✓

661.58

N4590 ✓ 69

4300	+1.2	62.8 ✓
4290	3.4	58.2 ✓
80	8.1	53.5 ✓
70	11.1	50.5 ✓
60	11.9	49.7 ✓
50	13.2	48.4 ✓
T.P. 0.04	Level 649.01 ✓	12.61 648.97 ✓
40	3.1	45.9 ✓
30	5.3	43.7 ✓
20	7.7	41.3 ✓
10	12.1	36.9 ✓
4200	15.5	33.5 ✓

N4580 ✓

Cont from 448-36

4200	15.0	34.0 ✓
10	11.8	37.2 ✓
20	8.6	40.4 ✓
30	6.3	42.7 ✓
40	4.4	44.6 ✓
50	3.3	45.7 ✓
60	13.5	48.1 ✓
70	11.8	49.8 ✓
80	8.9	52.7 ✓
90	4.1	57.5 ✓
4300	+0.1	61.7 ✓ Page 57

661.6 →

N4570 ✓

	661.6		
4300		0.8	60.8 ✓ Page 58
4290		4.9	56.7 ✓
80		9.3	52.3 ✓
70		12.1	49.5 ✓
60	Level 649.01	2.3	46.7 ✓
50		5.4	43.6 ✓
40		6.0	43.0 ✓
30		6.8	42.2 ✓
20		9.8	39.2 ✓
10		12.6	36.4 ✓
4200		14.2	34.8 ✓ from Book 448-36

N4560 ✓ from 448-36

4200		16.4	32.6 ✓
10		13.8	35.2 ✓
20		11.9	37.1 ✓
30		9.5	39.5 ✓
40		8.6	40.4 ✓
50		6.4	42.6 ✓
60		2.6	46.4 ✓
70	661.6	12.3	49.3 ✓
80		10.0	51.6 ✓
90		6.4	55.2 ✓
4300		2.3	59.3 ✓ Page 58

N4550 ✓

	661.6			
4300		2.8	Cont. on Page 58	58.8 ✓
90		7.7		53.9 ✓
80		10.6		51.0 ✓
70	Level 649.01	13.6		48.0 ✓
60		3.6		45.4 ✓
50		7.2		41.8 ✓
40		10.1		38.9 ✓
30		11.9		37.1 ✓
20		14.2		34.8 ✓
10		15.7		33.3 ✓
4200		18.2	Cont. from Book 448/36	30.8 ✓
T.P.	7.62	Level 644.34 ✓	12.29	636.72

N4540 ✓ cont. from Book 448-37

4200		22.0	22.3 ✓
03		22.0	22.3 ✓
04		13.9	30.4 ✓
10		12.4	31.9 ✓
20		10.5	33.8 ✓
30		7.9	36.4 ✓
40		6.2	38.1 ✓
50		3.9	40.4 ✓
60	661.6	17.4	44.2 ✓
70		15.3	46.3 ✓
80		13.0	48.6 ✓
90		10.7	50.9 ✓
4300		7.1	54.5 ✓ Page 58

N4530 ✓

		661.58		
T.P.	0.45	655.22	6.81	654.77 ✓
4300			6.3	48.9 ✓
4290			8.8	46.4 ✓
80			10.5	44.7 ✓
70			11.5	43.7 ✓
60			13.3	41.9 ✓
		644.34		
50			4.1	40.2 ✓
40			6.6	37.7 ✓
30			9.0	35.3 ✓
20			9.9	34.4 ✓
08			13.2	31.1 ✓
06			22.1	22.2 ✓
4200			22.1	22.2 ✓

Continued in Book 448
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Table VII. Excavation and Embankments, Cu. Yds. per 100 ft.

Slope	¼ to 1	1 to 1			1½ to 1				All Slopes 1 Ft. Base
		BASE			BASE				
Depth	20'	20	22	24	14	16	20	24	
1	75	78	85	93	57	65	80	94	3.7
2	152	163	178	193	126	141	170	200	7.4
3	230	256	278	300	206	228	272	316	11.1
4	311	356	385	414	296	326	385	444	14.8
5	393	463	500	537	398	435	509	583	18.5
6	477	578	622	666	511	556	644	733	22.2
7	564	700	752	804	635	687	791	894	25.9
8	652	830	889	948	770	830	948	1067	29.6
9	742	967	1033	1100	917	983	1116	1250	33.3
10	833	1111	1185	1259	1074	1148	1296	1444	37.0
11	926	1263	1344	1425	1243	1324	1487	1650	40.7
12	1022	1422	1511	1600	1422	1511	1689	1867	44.4
13	1119	1589	1685	1781	1613	1709	1902	2094	48.1
14	1219	1763	1867	1970	1815	1919	2126	2333	51.8
15	1319	1944	2055	2166	2028	2139	2361	2583	55.5
16	1422	2133	2251	2369	2252	2370	2607	2844	59.2
17	1527	2330	2456	2582	2487	2613	2865	3117	62.9
18	1633	2533	2667	2800	2733	2867	3133	3400	66.6
19	1742	2744	2885	3025	2991	3131	3413	3694	70.3
20	1852	2963	3111	3259	3259	3407	3704	4000	74.0
21	1963	3189	3344	3500	3539	3694	4005	4317	77.7
22	2078	3422	3585	3748	3830	3993	4318	4644	81.4
23	2193	3663	3833	4003	4131	4302	4642	4983	85.1
24	2310	3911	4089	4267	4444	4622	4978	5333	88.8
25	2430	4167	4352	4537	4769	4954	5324	5694	92.5
26	2551	4430	4622	4814	5104	5296	5681	6067	96.2
27	2675	4700	4900	5100	5450	5650	6050	6450	100.0
28	2800	4978	5185	5392	5807	6015	6430	6844	103.6
29	2926	5263	5477	5691	6176	6391	6820	7250	107.3
30	3055	5556	5778	6000	6556	6778	7222	7667	111.0
31	3185	5856	6085	6314	6946	7176	7635	8094	114.7
32	3318	6163	6399	6635	7348	7585	8059	8533	118.4
33	3452	6478	6722	6966	7761	8006	8494	8983	122.1
34	3589	6800	7052	7304	8185	8437	8941	9444	125.8
35	3727	7130	7389	7648	8620	8880	9398	9917	129.5
36	3866	7467	7733	8000	9067	9338	9867	10400	133.2
37	4008	7811	8084	8358	9524	9798	10346	10894	136.9
38	4051	8163	8444	8725	9993	10274	10837	11400	140.6
39	4296	8522	8811	9100	10472	10761	11339	11917	144.3
40	4444	8889	9185	9481	10963	11259	11852	12444	148.0
41	4593	9263	9567	9871	11465	17969	12376	12983	151.7
42	4744	9644	9955	10266	11978	12289	12911	13533	155.4
43	4897	10033	10351	10669	12502	12820	13457	14094	159.1
44	5052	10430	10756	11084	13037	13363	14015	14667	162.8
45	5208	10833	11166	11499	13583	13917	14583	15250	166.5
46	5366	11244	11584	11924	14141	14481	15163	15844	170.2
47	5527	11663	12011	12359	14709	15057	15754	16450	173.9
48	5688	12089	12444	12799	15289	15644	16356	17067	177.6
49	5853	12522	12884	13246	15880	16243	16968	17694	181.3
50	6018	12963	13333	13703	16481	16853	17592	18333	185.0
52	6355	13867	14251	14635	17719	18104	18874	19644	192.4
54	6700	14800	15200	15600	19000	19400	20200	21000	200.0
56	7051	15763	16177	16591	20326	20741	21570	22400	207.2
58	7410	16756	17186	17516	21696	22126	22985	23844	214.6
60	7777	17778	18222	18666	23111	23555	24444	25333	222.0
70	9722	23332	23850	24368	30852	31370	32407	33444	259.0
80	11852	29629	30221	30813	39704	40296	41480	42667	296.0
90	14167	36666	37333	38000	49667	50333	51665	53000	333.0
100	16667	44444	45184	45924	60741	61481	62962	64444	370.0

Tables for Excavations and Embankments.

Distances from Edge of Roadway for Cross-Sectioning.

Any Roadway. Side Slopes 1½ to 1.

Half the width of roadway to be added to table to find distance from centre line.

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

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