

W360

1880

W. 360

July Estimate

360

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

	.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

Below Stripped Surface N. of
N. 3670 to end of Trench is
Solid Rock Core Wall
Below 550 Contour + S. of N.
3540 in upstr. toe wall - Solid Rock

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THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
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E 4750 to E 5140

Upstr. Wall to 3600
3780 North

Index

1-22 X Sections for July ¹⁹³² Estimate

22-62 X Sections for Aug Estimate
Aug. 23-24, 1933

63-64 Core Trench Cross-Sections
Aug. 26, 1932.

X Sections for July Estimate

July 26, 1932

Converse Transit
Elliot Notes
Simpson Level
Soper Rod
Remmen Chain

Orig. ground

B.M. 0.47 552.47 552.00
N 3500 original ground

Area
Rock Emb. Area
Hyd Fill.

	N 3520						
E 4350	552.5	0.8	551.7	53.7	2.0	4.1 x 30 =	123.0
4380		5.5	47.0	53.2	6.2		
4400		15.9	36.6	53.1	16.5		
4420		12.8	39.7	52.6	12.9		
4440		14.2	38.3	53.4	15.1		
4460		13.6	38.9	54.1	15.2		
4480		16.3	36.2	54.0	17.8		
4500		14.1	38.4	53.9	15.5		
4520		6.2	46.3	54.5	8.2		
4540		0.4	52.1	53.9	1.8	105.2 x 20 =	2104.0 ✓
						N 3520 -	2227.0
4900		+8.8	561.3	61.1	00.0		
4935		16.0	36.5	61.6	25.1	12.55 x 35 =	439.25 ✓
4960		16.6	35.9	61.3	25.4	25.25 x ²⁵ 60 =	637.5
5000		16.6	35.9	61.4	25.5	25.45 x 40	1515.0
							1018.0 ^{2088.5}
						N 3520 -	2992.25

Original
Ground
from here
to here

552.17
N 3540

Area
Rock Emb

Area
Hyd. Fill.

E 4330		1.4	551.1	551.3	0.2	} 2 x 10 =	20.0 ^v
4340		4.9	47.6	51.4	3.8		
4360		11.4	41.1	51.5	10.4		
4380		10.7	41.6	51.6	10.0	} 17.3 x 20 =	346.0 ^v
4395	552.5	20.5	32.0	51.8	19.8		} 14.9 x 15 =
4410		20.3	32.2	51.9	19.7	} 19.75 x 15 =	296.25 ^v
4410		14.5	38.0	51.9	13.9		} 14.15 x 10
4420		14.8	37.7	52.1	14.4		
4440		16.2	36.3	52.6	16.3		
4460		16.6	35.9	52.6	16.7		
4480		17.1	35.4	52.4	17.0		
4500		16.3	36.2	52.0	15.8		
4520		14.5	38.0	52.4	14.4		
4540		14.1	38.4	52.5	14.1		
4560		13.0	39.5	52.6	13.1		
4580		12.1	40.4	52.7	12.3		
4600		8.2	44.3	53.2	8.9		
4620		7.8	44.7	52.8	8.1		
4640		3.9	48.6	52.7	4.1		
660		3.6	48.9	52.9	4.0		
680		5.2	47.3	52.8	5.5		
700		6.1	46.4	52.9	6.5		
720		0.4	52.1	53.1	1.0	} 164.5 x 20 =	3290.0 ^v
740		0.4	52.1	53.2	1.1		} N 3540 —
780		0.2	52.3	54.3	2.0	} 1.05 x 20 =	
						} 1.55 x 40 =	
						} 2.45 x 40 =	

21.0
62.0
98.0

N3540
552.47

5.2
2.5
2.7

Area
Rock Emb Area
Hyd Fill.

E 4820	+2.0	554.5	57.4	2.9
4840	+3.5	56.0	60.3	4.3
4860	+5.3	57.8	59.8	2.0
4880	+5.8	58.3	60.4	2.1
4900	+7.6	60.1	60.8	0.7
4905	+8.1	60.6	60.7	0.1
4935	16.5	36.0	59.6	23.6
4960	16.6	35.9	58.8	22.9
5000	16.3	36.2	61.5	25.3

10.2 x 20
17.70 x 20 =
11.85 x 30 =
23.25 x 25 =
24.1 x 40 =

204.0
354.0
355.5 ✓
581.25 ✓
964.0 ✓

N3560

4330	1.4	51.1	51.4	0.3
350	10.0	42.5	51.5	9.0
370	11.2	41.3	51.6	10.3
390	11.1	41.4	51.8	10.4
4400	20.8	31.7	51.7	20.0
10	20.5	32.0	51.7	19.7
20	15.8	36.7	51.7	15.0
40	15.8	36.7	51.7	15.0
60	16.8	35.7	52.1	16.4
80	16.9	35.6	52.1	16.5
4500	16.9	35.6	52.1	16.5
20	16.2	36.3	52.2	15.9
40	14.6	37.9	52.3	14.1
60	14.5	38.0	52.2	14.2
80	14.8	37.7	52.4	14.7
4600	15.0	37.5	52.4	14.9
20	14.9	37.6	52.5	14.9

N3540 — 2256.75

2041.75

24.65 x 20 = 493.00 ✓
52.4 x 10 = 524.0 ✓

N3560

552.47

4640	14.8	537.7	52.9	15.2
60	8.3	44.2	52.7	8.5
80	6.9	45.6	53.0	7.4
4700	6.9	45.6	53.0	7.4
720	6.8	45.7	53.1	7.4
740	3.9	48.6	53.3	4.7
760	0.2	52.3	53.3	1.0
780	0.4	52.1	53.4	1.3
800	0.6	51.9	53.9	2.0
820	+1.6	54.1	54.1	0.0
840	+2.0	54.5	55.9	1.4
860	+2.0	54.5	56.9	2.4
880	+4.0	56.5	58.0	1.5
4900	+5.6	58.1	57.6	0.0
4910	+6.1	58.6	58.1	0.0
4940	16.7	35.8	61.1	25.3
4960	16.2	36.3	61.6	25.3
5000	16.4	36.1	61.7	25.6

203.1 x 20 = 4062.0 ✓

N 3560 - 5079.0 ✓

0.0 18.0 x 20 =

360.0 ✓

25.3 > 12.65 x 30 =

379.5 ✓

25.3 > 25.3 x 20 =

506.0 ✓

25.6 > 25.45 x 40 =

1018.0 ✓

N3560 - 2263.5 ✓

N3580

E 5000	552.5	15.0	37.5	62.1	24.6
4980		15.5	37.0	61.8	24.8
4960		15.4	37.1	60.6	23.5
4940		14.0	38.5	59.7	21.2
4920		9.7	42.8	59.8	17.0
4910		+2.9	55.4	56.7	1.3
E 4900		+2.8	55.3	56.0	0.7

71.2 x 20 =

1424.0 ✓

17.0 } 19.1 x 10 =

191.0 ✓

1.3 } 9.15 x 10 = x 20

91.5 ✓

- 1.0 x 10 =

183.0 ✓

10.0 ✓

N3580

552.47

5

E4880	+2.3	554.8	58.4	3.6	
860	+0.2	52.7	53.8	1.1	
840	+1.0	53.5	53.4	0.0	
820	+1.3	53.8	53.2	0.0	
800	0.0	52.5	53.3	0.8	
780	+0.4	52.9	53.3	0.4	
760	0.4	52.1	53.3	1.2	
740	0.3	52.2	53.4	1.2	
720	6.7	45.8	53.3	7.5	12.40 x 20 =
700	7.2	45.3	53.1	7.8	
680	7.0	45.5	53.0	7.5	
660	7.7	44.8	52.9	8.1	
640	8.0	44.5	53.0	8.5	
620	9.0	43.5	52.6	9.1	
600	9.6	42.9	52.8	9.9	
580	9.5	43.0	52.4	9.4	
560	9.4	43.1	52.3	9.2	
540	9.6	42.9	52.4	9.5	
520	16.8	35.7	52.3	16.6	
500	16.9	35.6	52.2	16.6	
480	16.0	36.5	52.0	15.5	
460	16.6	35.9	52.0	16.1	
440	15.6	36.9	51.8	14.9	
420	15.4	37.1	51.9	14.8	169.85 x 20 = 3397.0 ✓
415	20.6	31.9	51.9	20.0	17.4 x 5 = 87.0 ✓

N3580-1964.5

248.0 ✓

2056.0 ✓

	N3580					Area. Rock Emb	Area Hgt. Fill.
	552.47						6
4400		20.5	32.0	51.9	19.9	$19.95 \times 15 = 299.25$ ✓	
4395		11.0	41.5	51.9	10.4	$15.15 \times 5 = 75.75$ ✓	
4380		10.0	42.5	51.8	9.3	$9.35 \times 15 = 140.25$ ✓	
4360		10.3	42.2	51.6	9.4	$9.35 \times 20 = 187.0$ ✓	
4350		9.0	43.5	51.8	8.3	$8.85 \times 10 = 88.5$ ✓	
4330		0.9	51.6	51.5	0.0	$4.15 \times 20 = 83.0$ ✓	
	N3620					N3580 - 4357.75	
E 4340	552.5	0.5	52.0	51.6	0.0	4305.25 ✓	<u>6471.25</u>
4360		8.4	44.1	51.6	7.5		
4380		8.8	43.7	51.5	7.8	$11.4 \times 20 = 228.0$ ✓	
4395		9.1	43.4	51.5	8.1	$7.95 \times 15 = 119.25$ ✓	
4400		20.1	32.4	51.6	19.2	$13.65 \times 5 = 68.25$ ✓	
425		20.7	31.8	51.7	19.9	$19.55 \times 25 = 488.75$ ✓	
430		15.6	36.9	51.8	14.9	$17.4 \times 5 = 87.0$ ✓	
440		15.7	36.8	51.8	15.0	$14.95 \times 10 = 149.5$ ✓	
460		16.0	36.5	51.9	15.4		
480		14.8	37.7	52.0	14.3		
500		14.8	37.7	52.2	14.5		
520		15.8	36.7	52.7	16.0		
540		13.3	39.2	52.7	13.7		
560		12.8	39.7	53.0	13.3		
580		12.6	39.9	53.7	13.8		
600		12.8	39.7	54.3	14.6		
620		12.9	39.6	54.3	14.7		
640		12.8	39.7	54.6	14.9		

N3620

552.47

E4660	11.2	541.3	54.6	13.3
4680	7.3	45.2	54.8	9.6
4700	2.5	45.0	54.4	9.4
720	7.7	44.8	54.0	9.2
730	7.6	44.9	53.9	9.0
740	0.7	51.8	53.9	2.1
760	0.6	51.9	54.1	1.2
780	0.3	52.2	54.4	2.2
800	0.0	52.5	54.0	1.5
820	0.2	52.5	54.3	1.8
840	0.3	52.2	54.3	2.1
860	0.6	51.9	53.7	1.3
880	1.6	50.9	53.5	2.6
900	3.3	49.2	53.8	4.6
920	5.6	46.9	53.9	7.0
940	8.9	43.6	54.6	11.0
960	11.6	40.9	55.7	14.8
4980	12.9	39.6	55.9	16.3
5000	13.8	38.7	56.3	17.6

N3660

E 5000	6.5	46.0	54.6	8.6
4980	10.9	41.6	55.4	13.8
4960	11.6	40.9	54.2	13.3
4940	7.8	44.7	54.0	9.3
4920	70.2	52.7	54.2	1.5

39.39
10.13
52.5
49.52

63.37
52.97
10.19

7

$$9.2 \times 189.60 \times 20 = 3792.0$$

$$9.0 \times 9.11 \times 10 \times N 3620 - 4932.75$$

$$2.1 \times 5.55 \times 10 = 7.2 \times 10 =$$

91.0
55.5
72.0

$$16.3 \times 76.25 = 17.6 \times 74.60 \times 20 =$$

1525.0
1492.0

N3620 - 1564.0
1671.5

N3660

552.47

E 4900	+0.3	552.2	54.5	2.3
880	+0.2	52.7	54.3	1.6
860	+0.2	52.7	54.8	2.1
840	+0.1	52.6	54.8	2.2
820	+0.8	53.3	54.8	1.5
800	+1.6	54.1	54.4	0.3
780	+1.7	54.2	54.5	0.3
760	+2.0	54.5	57.2	2.9
750	+2.8	55.3	57.5	2.2
732	8.0	44.5	57.7	13.2
700	7.3	45.2	57.9	12.7
680	7.0	45.5	58.4	12.9
660	7.8	44.4	58.7	14.3
640	8.3	44.2	58.9	14.7
620	8.9	43.6	59.0	15.4
600	9.3	43.2	59.3	16.1
580	10.5	42.0	59.5	17.5
560	9.5	43.0	59.3	16.3
540	9.0	43.5	59.6	16.1
520	15.0	37.5	59.7	22.2
500	14.3	38.2	59.5	21.3
480	13.9	38.6	59.8	21.2
460	14.7	37.8	59.8	22.0
440	15.4	37.1	59.6	22.5
425	17.1	34.4	59.7	25.3

Area
Rock EmbArea
Hyd. Fill. 8

$$53.95 \times 20 =$$

$$2.2 \times 10 =$$

$$7.7 \times 20 =$$

$$12.95 \times 30 = 388.5$$

1079.0 ✓

25.5 ✓

154.0 ✓

1258.5 ✓

N3660

$$22.5 \times 227.60 \times 20 = 4552.0$$

$$25.3 \times 23.9 \times 15 = 358.5$$

N 3660

552.47

4420	20.3	532.2	59.8
4405	20.0	32.5	55.7
4400	10.6	41.9	54.8
4380	11.0	41.5	55.4
4360	8.3	44.2	57.2
4330	8.0	44.5	60.0

27.6	$26.45 \times 5 =$	132.25	✓
23.2	$25.4 \times 15 =$	381.00	✓
12.9	$18.05 \times 5 =$	90.25	✓
13.9			
13.0	$26.85 \times 20 =$	537.0	✓
15.5	$14.25 \times 30 =$	427.5	✓

N 3660 - 6867.0

N 3700

E 4320	+ 10.0	62.5	62.5
330	+ 4.0	56.5	61.8
340	7.2	45.3	61.1
360	8.7	43.8	59.9
380	11.1	41.4	58.3
390	10.6	41.9	60.2
400	19.3	33.2	60.0
420	19.2	33.3	59.4
425	13.7	38.8	59.9
440	13.7	38.5	60.5
460	15.5	37.0	60.7
480	12.0	40.5	60.7
500	12.2	40.3	60.6
520	13.3	39.2	60.2
540	9.8	42.7	60.1
560	10.0	42.5	59.8
580	10.4	42.1	60.3

0.0			
5.3	$2.65 \times 10 =$	26.5	✓
15.8	$10.55 \times 10 =$	105.5	✓
16.1	$32.45 \times 20 =$	649.0	
16.9	$16.22 \times 20 =$	324.40	
18.3	$17.6 \times 10 =$	176.0	✓
26.8	$22.55 \times 10 =$	225.5	✓
26.1	$26.45 \times 20 =$	529.0	✓
21.1	$23.6 \times 5 =$	118.0	✓
22.0	$21.55 \times 15 =$	323.25	✓
23.7			
20.2			
20.3			
21.0			
17.4			
17.3			
18.2			

N3700

10

552.47

4600	10.6	41.9	60.3
620	10.7	41.8	60.1
640	10.6	41.9	60.0
660	10.1	42.4	60.0
670	8.0	47.5	60.0
4690	6.3	46.2	59.8
4710	+7.3	59.8	59.7
720	+7.5	60.0	60.0
740	+7.5	60.0	60.0
760	+6.6	59.1	59.9
780	+6.9	59.4	59.2
800	+6.3	58.8	58.4
820	+6.0	58.5	55.9
840	+2.1	54.6	56.1
860	+2.6	55.1	55.2
880	+2.2	54.7	55.2
900	+0.5	53.0	56.1
920	+1.3	53.8	56.7
940	+1.1	53.6	54.1
960	2.3	50.2	54.1
980	4.2	48.3	54.3
5000	4.7	47.8	54.5

N3740

5000	3.3	49.2	55.7
4980	0.3	52.2	56.8
4960	0.1	52.4	58.1
4940	+5.2	57.7	60.3
4920	+3.4	55.7	62.5

18.4

18.3

18.1

17.6 } $212.7 \times 20 =$ 4254.0 ✓12.5 } $15.05 \times 10 =$ 150.5 ✓13.6 } $13.05 \times 20 =$ 261.0 ✓0.0 } $6.8 \times 20 =$ 136.0 ✓

0.0 N3700 - 6629.65

0.0 6954.25 ✓

0.8

0.0

0.0

0.0

1.5

0.3

0.7

3.1

2.9

0.5

3.9

6.0

6.7 } $23.05 \times 20 =$ 461.0 ✓

N3700

6.5

4.6

5.7

2.6

6.6

N3740

Note original ground from E 4900 to 4680

4900	552.47	46.4	558.9	64.0
E 4680		+11.9	64.4	60.0
4665		+12.5	65.0	60.1
4640		+0.1	52.6	59.7
4620		1.5	51.0	59.9
4600		2.9	49.6	60.0
4580		5.7	46.8	60.0
4560		2.2	50.3	60.3
4540		5.7	46.8	60.3
4520		7.6	44.9	60.5
4500		9.4	43.1	60.5
4480		8.9	43.6	60.4
4470		7.8	44.7	60.5
4460		13.2	39.3	60.7
4440		13.6	38.9	61.2
4420		13.3	39.2	61.2
4410		17.5	35.0	61.3
4390		16.9	35.6	61.5
4380		9.8	43.7	61.4
4360		10.1	42.4	61.5
4340		7.7	44.8	61.7
4330		6.2	46.3	61.8
4320		+2.5	55.0	62.0
4310		+9.7	62.2	62.2
B, N, I,		0.47	552.00	

9.99 561.99

5.1	25.3	$\times 20 =$	N3740 - 506.0
0.0			
0.0			
7.1	3.55	$\times 25 =$	88.75
8.9			
10.4			
13.2			
10.0			
13.5			
15.6			
17.4			
16.8	100.95	$\times 20 =$	2019.0
15.8	16.3	$\times 10 =$	163.0
21.4	18.6	$\times 10 =$	186.0
22.3	43.7	$\times 20 =$	874.0
22.0	44.0		880
26.3	24.15	$\times 10 =$	241.5
25.9	26.1	$\times 20 =$	522.0
17.7	21.8	$\times 10 =$	218.0
19.1			
16.9	36.40	$\times 20 =$	728.0
15.5	16.2	$\times 10 =$	162.0
7.0	11.25	$\times 10 =$	112.5
0.0	3.5	$\times 10 =$	35.0
N 3740			5349.75
			5355.75

Total
5861.75

N 3780

12

561.99

E 4320	562.0	+0.5	562.5	62.5	0.0		
4345		16.4	45.6	62.6	17.0	} 8.5 x 25 =	212.5 ✓
4360		17.1	44.9	62.7	17.8	} 17.4 x 15 =	261.0 ✓
380		17.5	44.5	62.9	17.4	} 17.6 x 20 =	352.0 ✓
385		24.0	38.0	62.8	24.8	} 21.1 x 5 =	105.5 ✓
415		23.8	38.2	62.6	24.4	} 24.6 x 30	738.0 ✓
420		14.7	47.3	62.5	15.2	} 19.8 x 5	99.0 ✓
440		12.8	49.2	63.1	13.9		
460		12.3	49.7	62.3	12.6		
480		12.9	49.1	63.0	13.9		
500		14.4	47.6	63.1	15.5		
520		12.3	49.7	63.0	13.3		
540		5.7	56.3	63.3	7.0		
560		0.1	61.9	63.3	1.4		
4580	Prig. Ground	+1.8	63.8	63.6	0.0	85.2 x 20 =	1704.0 ✓

H 3780 - 3472.0 ✓

N3800

13

561.79

562.0

4520	original gn.	+5.2	567.7	68.6	1.4	} 19.05 x 30 = 571.5 ✓
4490		10.7	51.3	63.3	12.0	
4460		11.5	50.5	63.7	12.7	
4440		10.6	51.4	63.0	11.6	
4420		10.1	51.9	63.6	11.7	
4400		9.8	52.2	63.9	11.7	
4380		8.7	53.3	64.2	10.9	
4360		8.2	53.8	63.5	9.7	
4340		8.1	53.9	63.0	9.1	
4320		+0.6	62.6	62.6	0.0	71.05 x 20 = 1421.0 ✓

N3800 - 1992.5

N3820

4340		+0.5	62.5	62.5	0.0	
4360		6.6	55.4	63.4	8.0	
4380		7.6	54.4	64.3	9.9	
4400		8.5	53.5	66.1	12.6	
4420		8.4	53.6	64.7	11.1	
4440		8.4	53.6	65.1	11.5	
4460		6.5	55.5	67.5	12.0	
4480		3.3	58.7	70.8	12.1	71.15 x 20 = 1423.0 ✓
4510	original ground	+8.6	70.6	71.9	0.0	76.05 x 30 = 181.5 ✓

N3820 - 1604.5

T.P 12.31 565.91 553.60

N3500

E 5000	565.9	30.3	33.6	61.4	25.8	} 25.8 x 40 =	1032.0 ✓	
4960		30.1	35.8	61.6	25.8			
4935		29.5	36.4	61.3	24.9			} 25.35 x 25 =
4895		4.1	61.8	61.2	0.0	} 12.45 x 40 =	498.00 ✓	
orig. ground from here West							N3500 -	2163.75

N3480

5000		29.5	36.4	61.0	24.6	} 24.65 x 50 =	1232.5 ✓	
4950		29.4	36.5	61.2	24.7			
4930		28.8	37.1	61.2	24.1			} 24.4 x 20 =
4895		4.7	61.2	61.1	0.0	} 12.05 x 35 =	421.75 ✓	
orig. gr. from here West							N3480 -	2142.25

N3460

5000	565.9	26.7	39.2	60.3	21.1	} 70.65	1413
980		23.9	42.0	60.6	18.6		
960		23.6	42.3	60.4	18.1		
940		23.0	42.9	60.5	17.6	} 5.8 x 30 =	174.0 ✓
920		17.7	48.2	59.8	11.6		
890		5.3	60.6	58.2	0.0		
880		6.2	59.7	57.6	0.0		
860		5.9	60.0	56.9	0.0		
840		5.8	60.1	59.9	0.0		
820		6.3	59.6	59.5	0.0		
800		6.7	59.2	59.1	0.0		
780		3.0	62.9	59.7	0.0		

N3460

565.91

4760		1.9	564.0	68.0
740		0.9	65.0	68.3
720		+ 1.4	67.3	68.3
700				

orig. ground

N3440

5000	565.9	10.1	55.8	58.5
980		11.0	54.9	58.0
960		11.1	54.8	58.3
940		11.1	54.8	57.7
920		10.2	55.7	57.4
900		9.7	56.2	56.7
880		7.4	58.5	57.3
860		6.2	59.7	57.9
840		5.3	60.6	60.0
820		6.3	59.6	59.7
800		5.6	60.3	66.4
780		0.2	65.7	69.2
760		+ 6.4 original ^{72.3} gr.	72.4	

N3420

5000		7.3	58.6	59.2
4980		7.0	58.9	58.6
960		7.3	58.6	58.5
940		7.5	58.4	58.5
920		8.0	57.9	61.4
900		8.0	57.9	69.8

4.0

3.3

1.0

5.8

8.8 x 20 =

2.7

3.1

3.5

2.9

1.7

0.5

0.0

0.0

0.0

0.1

6.1

3.5

0.0

22.75 x 20

15

116

166.0

N3460 - 1401.0

1803

1703

N3440 - 455.0 ✓

N3420

12.7

16

565.91

4880	7.8	558.1	70.1	12.0
860	7.0	58.9	69.9	11.0
840	5.8	60.1	70.2	10.1
820	5.7	60.2	69.8	9.6
800	0.0	65.9	71.6	5.7
780	Orig. Gr. + 8.1	74.0	76.1	2.1

 $55.25 \times 20 = N3420 - 1105.0$ ✓

N3400

E 5000	+0.3	66.2	74.3	8.1
4980	0.7	65.2	73.4	8.2
4960	1.8	64.1	72.9	8.8
4940	1.7	64.2	72.7	8.5
4920	2.2	63.7	72.4	8.7
4900	2.8	63.1	72.2	9.1
4880	2.8	63.1	71.7	8.6
4860	2.8	63.1	70.9	7.8
4840	1.9 Orig. Gr.	64.0	72.7	8.7
4820	+ 9.4	75.3	75.3	0.0
T. P.	0.25	565.66		

 $72.45 \times 20 = N3400 - 1449.0$ ✓

12.63 578.29

0.20 578.09

12.88 590.97

N3380

E 4900	591.0	Orig. Gr.	77.9	77.9	0.0
920		21.8	69.2	77.4	8.2
940		14.2	76.8	76.8	0.0

N3380

590.97

4960	591.0	19.0	572.0	81.1
4980		20.2	70.8	80.4
5000		20.8	70.2	76.3

N3360

E 4940	or. Grnd.			84.4
4960		12.4	78.6	84.8
4980		15.1	75.9	85.1
5000		12.4	78.6	83.9

N3340

4960	or. Gr.			
4980		4.0	87.0	91.6
5000		2.0	89.0	92.7

N3320 is orig. ground.

12.7
6.3
22.2

17

9.1

9.6

6.1

 $29.95 \times 20 =$

N3380 - 599.0 ✓

6.2

9.2

5.3

 $14.95 \times 20 =$

N3360 - 299.0 ✓

0.0

4.6

3.7

 $6.45 \times 20 =$

N3340 - 129.00 ✓

Areas grouped from Pages 1-17

Section	Area		Cu. Ft. Rock Emb.	Cu. Ft. Hyd. Fill.	Cu Yd. Rocks Emb.	Cu Yd. Hyd. Fill.
	Rock Emb.	Hyd. Fill.				
N 3340		129.00				
3360		299.00				
3380		599.00				
3400		1449.00				
3420		1105.00				
3440		455.00				
3460		1803 1703 1401.0				
3480		2142.25				
3500		2163.75				
3520	2227.00	2088.5 2972.25				
3540	4317.25	2641.75 2256.75				
3560	5079.00	2263.50			362,045	
3580	4365.25 4357.75	2056.0 1964.50	18,158.25 x 20 = 18102.25		363,165	
	12,688.62 x 20 = 1269242			253 848.4 253,772.4		
3620	4932.75 2466.37	1671.5 1564.00				
3660	6867.00	1258.50			47394	17569
3700	6954.25 6629.65	461.00			46,901	17,531
3740	5355.75 5349.75	506.00				
3780	1788.75 3472.00	2754.5 x 40 = 110180				
3800	1992.50	23,048.77 x 40 = 27379.57	935 174.8 921,950.8			
3820	1604.50	4530.75 x 20 =	90,615			
			1,206,338.2			
			473,345			
						See Next Page for Totals
						64,432 64,963 P.O.B. D.K.G.W.G.

Total Stripping to July 25, 1932

Book 360 - Page 1-18	64,963	Cu Yds.
Book 361 - Page 1-26	<u>97,062</u>	" "
	Total 162,025	" "

Less rock below surface and paid for as solid rock (H.V.N.)

Total Rock 1975.6
 Rock above surface 230.0

Rock below surface, Paid for @ 1.00 per cu. yd. to be deducted from stripping and wasted @ .25 per cubic yard. } 1,746

Total stripping to date and paid for @ .25 per cu. yd. 160,279 cu. yds.

Account Segregation below axis

Total below axis	64,963
Hyd. Fill south of N 3480 (No Rock Emb)	5,074 Cu Yd.
<u>Roller Emb below axis</u>	<u>59,889</u>

Account Segregation of total Stripping to July 25, 1932

CHARGEABLE TO

Roller Emb above axis	
See Book 361 P 28	90,586 Cu Yd.
Roller Emb below axis	<u>59,889</u> " "
<u>Roller Emb</u>	<u>150,475</u>

Hyd. Fill above axis	
See Book 361 P 28	4,617
Hyd. Fill below axis	<u>5,074</u>
<u>Hyd. Fill</u>	<u>9,691</u> Cu Yd.

Rock Emb. above axis	
See Book 361 P 28	1,859 Cu Yd.
<u>Rock Emb</u>	<u>1,859</u>

Account segregation of strip-
ping below axis.

Chargable to

Rolled Embankment	12,495 Cu Yd
Hydraulic fill	5,074
Rock Embankment	47,394
	64,963

Account segregation of total
stripping to July 25, 1932.

Chargable to

Rolled Emb above axis	
See Book 361 P28	23,102 Cu Yd.
Rolled Emb below axis	<u>12,495</u>
<u>Rolled Embankment</u>	35,597

Hydraulic Fill above axis

See Book 361 P28	4,617
Hyd. Fill below axis	<u>5,074</u>
<u>Hydraulic Fill</u>	9,691

Rock Emb above axis

See book 361 P28	69,343
Rock Emb below axis	<u>47,394</u>
	116,737
less solid Rock	<u>1,746</u>
see this book P 19	
<u>Rock Embankment</u>	114,991

B.M.	2.65	613.12		610.47
			11.71	601.71
	0.75	602.16		
			13.25	588.91
	2.90	591.81		

N 3330

E 4960

0.6

770	5.4	86.4	96.0	-	9.6	} 14.25 x 10 4.65	142.5
780	5.5	86.3	95.6		9.3		
5000	5.2	86.6	96.3		9.7		
20	5.3	86.5	95.9		9.4		
40	4.7	87.1	96.6		9.5		
60	3.8	88.0	96.5		8.5		
80	3.7	88.1	95.1		7.0		
5100	4.0	87.8	97.0		9.2		
20	0.6				57.95 x 20		

Hydri

Recomb.

1159.0

1301.5 ✓

591.81

N3340

						Hydr. F.	Rock emb.
E 5130	0.6						
5120	4.8	87.0	96.3	-	9.3	46.5	
					4.65		
5100	4.6	87.2	92.8		5.6		
080	4.1	87.7	91.3		3.6		
960	4.8	87.0	91.9		4.9		
040	4.8	87.0	93.2		6.2		
020	5.4	86.4	92.1		3.7		
5000	5.3	86.5	92.1		5.6		
4980	5.6	86.2	91.6		5.4		
960	5.4	86.4	93.4		7.0		
940	6.1	85.9	92.8		7.1		
920	6.2	85.6	93.7		8.1		
900	7.1	84.7	92.9		8.2		
880	7.7	84.1	93.1		9.0		
860	9.0	82.8	94.9		17.1	1823.0	
840	0.6				91.15 x 20	1869.5	✓

N3360

591.81

13.21

2.43

10.78

25

4800

O.G.

Hydr. F

Rock emb.

820	13.2	78.6	89.4	-	10.8	
840	12.3	79.5	88.2		8.7	
860	11.0	80.8	86.1		5.3	
880	9.0	82.8	85.6		2.8	
900	7.4	84.4	86.1		1.7	
920	9.0	82.8	84.6		1.8	
940	8.4	83.4	84.4		1.0	0.5 31.6 x 20
950	9.0	82.8	84.9		2.1	3.8 x 10
960	19.4	72.4	84.8		12.4	
980	20.2	71.6	85.1		13.5	6.2
5000	21.4	70.4	83.9		13.5	
20	21.6	70.2	84.7		14.5	
40	21.9	69.9	84.4		14.5	
60	15.6	76.2	85.5		9.3	
80	12.9	79.9	84.9		5.0	
100	7.8	84.0	86.4		2.4	
20	6.1	85.7	89.7		4.0	
40	6.8	85.0	91.8		6.8	3.4 - 86.30 x 20
50	O.G.					3.4 x 10

632.0

~~88~~~~58.0~~

1726

~~926.0~~

34.0

1630.0

2480.0 ✓

591.81

					Hydr. F	Rockemb.
5200	0.6					
5180	8.5	83.3	87.1	-	3.8	
160	8.8	83.0	85.1		2.1	
140	7.6	84.2	84.7		0.6	
120	10.5	81.3	80.5		0.3 0.3	12.40
100	16.0	75.8	80.1		4.3	
080	16.3	75.5	79.8		4.3	
060	21.2	70.6	78.7		8.1	
040	22.1	69.7	77.4		7.7	
020	22.8	69.0	76.2		7.8	
5000	21.7	70.1	76.3		6.2	
4980	21.0	70.8	80.4		9.6	
960	20.4	71.4	81.1		9.7	
940	21.3	70.5	76.8		6.3	
920	23.0	68.8	77.4		8.6	
900	24.3	67.5	77.9		10.4	
880	25.6	66.2	77.5		11.3	
860	26.6	65.2	77.6		12.4	
840	26.8	65.0	79.0		14.0	
820	15.6	76.2	79.9		3.7	
800	17.0	74.8	84.4		10.0	
780	0.6				134.7	
					x 20	26.940

3400

591.81

12.08

0.82

11.26

Fr.

LVI

27

4760	0.6				
4780	20.4	71.4	80.8	-	9.4
800	19.3	72.5	78.0		5.5
T.P.	13.21	578.60			

2.43 581.03

820	18.0	63.0	75.3	-	12.3
840	18.0	63.0	72.7		9.7
860	19.1	61.9	70.9		9.0
880	20.3	60.7	71.7		11.0
900	22.2	58.8	72.2		13.4
920	23.0	58.0	72.4		14.4
940	22.0	59.0	72.7		13.7
960	24.0	57.0	72.9		15.9
980	27.6	53.4	73.4		20.0
5000	27.7	53.3	74.3		21.0
20	26.7	54.3	74.0		19.7
40	26.1	54.9	74.8		19.9
60	24.5	56.5	76.0		19.5
80	11.7	69.3	76.5		7.2
100	9.2	71.8	77.5		5.7
20	6.1	74.9	79.8		4.9
40	3.6	77.4	80.5		3.1

214.25 x 20

233.75 x 20 ✓

4285.0

4675.0 ✓

Hydr. F.

Rock emb.

N3400

581.03

5160	0.8	80.2	81.4
180	+0.2	81.2	83.1
200	0.7	80.3	86.4
220	1.0	80.0	88.9
240	0.6		

N3420

260	0.6		
240	0.3	80.7	84.6
220	2.6	78.4	82.2
200	1.4	79.6	78.9
180	0.8	80.2	80.1
160	7.0	74.0	78.3
140	14.0	67.0	76.4
120	17.8	63.2	75.4
100	19.8	61.2	74.7
080	27.4	53.6	74.9
060	31.1	49.9	73.2
040	35.0	46.0	67.6
020	34.1	46.9	61.5
5000	33.2	547.8	59.2

50.8

28

1.55

Hydr. F.

Rock emb.

-	1.2
	1.9
	6.1
	8.9
	19.65 x 20

393.0 ✓

3.9

3.8

0.0

0.0

4.3

9.4

4.7

16.70 x 20

4.7

12.2

13.5

21.3

23.3

27.6

14.6

11.4

334.0 ✓

581.03

Hydr. F

Rock emb.

4980	31.9	49.1	58.6	9.5
960	31.6	49.4	58.5	9.1
940	29.3	51.7	58.5	6.8
920	26.5	54.5	61.4	6.9
900	23.8	57.2	69.8	12.6
880	22.7	58.3	70.1	11.8
860	21.9	59.1	69.9	10.8
840	20.5	60.5	70.2	9.7
820	20.6	60.4	69.8	9.4
800	19.9	61.1	71.6	10.5
780	12.6	68.4	76.1	7.7
760	0.6			233.40 X 20

4668.0 ✓

N3440

+40

30

581.03

Hydr. Fi

Rock emb.

4740	0.6			
4760	16.7	64.3	72.4	8.1
80	15.8	65.5	69.2	3.7
800	20.4	60.6	66.4	5.8
20	21.1	59.9	59.7	0.0
40	20.4	60.6	60.0	0.0
60	21.4	59.6	57.9	0.0
80	22.3	58.7	57.3	0.0
900	24.6	56.4	56.7	0.3
20	26.9	54.1	57.4	3.3
40	29.7	51.3	57.7	6.4
60	32.5	48.5	58.3	9.8
80	31.7	49.3	58.0	8.7
5000	33.0	48.0	58.5	10.5
20	34.4	46.6	59.0	12.4
40	35.0	46.0	58.8	12.8
60	34.5	46.5	60.1	13.6
80	31.8	49.2	71.7	22.5
100	23.1	57.9	72.2	14.3
20	24.2	56.8	72.6	15.8
40	21.0	60.0	73.4	13.4
60	16.8	64.2	74.3	10.1
80	12.7	68.3	75.1	6.8
200	5.2	75.8	76.4	0.6

 134 ^{6.7} 154.7 x 20
_{6.7}

3094.0V

N3440

581.03

520	2.6	78.4	78.6
40	4.9	76.1	78.3
60	3.3	77.7	79.2
80	3.0	78.0	80.9
300	3.0	78.0	80.8
320	3.0	78.0	81.5
340	4.0	77.0	82.3
360	O.G.		
	6" below		
380	O.G.		
	6" below		
400	O.G.		
420	O.G.		

31

Hydr. F.

Rock emb.

-	0.2
	2.2
	1.5
	2.9
	2.8
	3.5
	5.3
	0.0
	6.0
	6.0
	0.0

~~63.60 x 20~~

54.60 x 20

~~172.7~~

1092.0 ✓

N3460

+1.0

32

581.03

Hydri F

Rockemb.

5420		0.0				
5400		5.1	75.9	76.4		0.5
380		4.0	77.0	75.8		0.0
360		8.0	73.0	75.9		2.9
340		10.4	70.6	76.2		5.6
320		11.0	70.0	76.3		6.3
300		9.5	71.5	76.6		5.1
280		8.2	72.8	77.5		4.7
260		6.3	74.7	75.9		1.2
240		5.0	76.0	74.5		0.0
220		13.3	67.7	72.9		5.2
T.P.		12.08	568.95			
	0.82	569.77				
200		6.6	63.2	72.4		9.2
180		10.9	58.9	71.9		13.0
160		13.3	56.5	71.3		14.8
140		13.0	56.8	62.5		5.7 2.85 71.35 x 20
120		12.8	57.0	59.2		2.2
100		18.6	51.2	58.4		7.2
080		21.0	48.8	58.2		9.4
060		22.9	46.9	58.5		11.6
040		26.8	43.0	58.6		15.6
020		27.6	42.2	59.9		17.7
5000		31.9	37.9	60.3		22.4

1427.0 ✓

N3460

569.77

4980	32.1	37.7	60.6	22.9
960	27.4	42.4	60.4	18.0
940	26.2	43.6	60.5	16.9
920	20.4	49.4	59.8	10.4
900	17.3	52.5	58.8	6.3
880	10.0	59.8	57.6	7.8
860	9.9	59.9	56.9	0.0
840	9.9	59.9	59.9	0.0
820	10.0	59.8	59.5	0.0
800	12.4	57.4	59.1	1.7
780	15.0	54.8	59.7	4.9
760	8.2	61.6	68.8	7.2
740	10.3	59.5	68.3	8.8 4A 189.45x20
720	7.5	62.3	68.3	6.0
700	0.6			
T.P.	12.15	557.62		10.4 x 20

9.23 566.85

Transit 0.61

8.6

33

Hydr. F.

Rock emb.

3789.0

208.0

N3480

566.85

66.9

5080	28.2	38.7	61.2
040	28.9	38.0	61.2
060	27.8	39.1	60.8
080	26.2	40.7	60.6
100	18.0	48.9	60.1
120	17.9	49.0	59.4
140	17.0	49.9	59.7
160	16.0	50.9	58.4
180	14.8	52.1	59.0
200	13.3	53.6	59.6
220	12.7	54.2	63.2
240	6.5	60.4	66.9
260	4.2	62.7	68.0
280	3.8	63.1	64.6
300	4.3	62.6	71.7

86

-86

12.6

-21.2

34

Hydr. F.

Rock emb.

22.5

23.2

21.7

19.9

11.2

10.4

9.8

7.5

6.9

6.0

9.0

6.5

5.3

1.5

9.1

} 22.85 x 10
11.6

49 79.70 x 20

228.5

1594.0

1822.5

N3480

35

566.85

5320	7.4	59.5	69.5	10.0
340	5.4	61.5	71.7	10.2
360	6.4	60.5	72.5	12.0
380	4.8	62.1	73.0	10.9
400	5.0	61.9	73.0	11.1
420	1.6	65.3	73.0	7.7
440	0.6	.	.	118.6 X 20

Hydr. Fi

Rock cmb.

2372.0

N3500

440	7.3	59.6	66.9	7.3	3.65
420	8.5	58.4	67.8	9.4	
400	13.3	53.6	66.3	12.7	
380	14.3	52.6	64.5	11.9	
B.M.	12.93	553.92	553.85		
0.56	554.41				
360	2.0	52.4	61.1	8.7	
340	2.3	52.1	61.4	9.3	
320	1.4	53.0	61.3	8.3	

554.41

5300	4.3	50.1	64.1	14.0	
280	5.0	49.4	64.5	15.1	
260	2.4	52.0	64.2	12.2	
240	6.0	48.4	60.5	12.1	
220	6.3	48.1	60.8	12.7	
200	5.5	48.9	61.0	12.1	
180	5.2	49.2	60.5	11.3	
160	5.7	48.7	60.9	12.2	
140	6.3	48.1	61.4	13.3	6.65 172.30x20
120	5.2	49.2	61.4	12.2	
100	14.9	39.5	61.4	21.9	
080	15.6	38.8	61.4	22.6	
060	15.8	38.6	61.4	22.8	
040	17.0	37.4	61.3	23.9	11.95 98.10x20
030	17.0	37.4	61.3	23.9	23.9x10

Hydr. F. | Rock emb.

3446.0

1962.0

239.0

2201.0

554.41

Hydr. F.

Rock emb.

5030	17.3	37.1	61.6	24.5	} 24.45 x 10 12.2	244.5
040	17.2	37.2	61.6	24.4		
060	16.4	38.0	61.7	23.7		
080	16.5	37.9	61.6	23.7		
100	16.2	38.2	61.6	23.4		
120	5.7	49.0	61.8	12.8		
140	6.1	48.3	61.6	13.3	665 102.45 x 20	2049.0
160	6.4	48.0	61.8	13.8		2293.5
180	5.8	48.6	61.8	13.2		
200	5.9	48.5	62.1	13.6		
220	6.0	48.4	62.2	13.8		
240	5.9	48.5	62.4	13.9		
260	4.8	49.6	62.7	13.1		
280	4.8	49.6	62.7	13.1		
300	4.6	49.8	62.8	13.0		
320	3.8	50.6	63.0	12.7		

N3520

554.41

5340	3.0	51.4	63.2
360	2.6	51.8	63.2
380	3.0	51.4	63.2
400	2.8	51.6	63.4
420	0.0	54.4	63.5
440	1.6	52.8	63.6

15.8
11.4
17.8
11.8
9.1
10.8 5.4
176.35 x 20

(188.15)

38

Hydr. F.

Rock emb.

-3527.0

3163.

554.41

Hydr. F.

Rock emb.

5440.	4.5	49.9	63.6	13.7	6.85
420	4.5	49.9	63.5	13.6	
400	4.0	50.4	63.2	12.8	
380	3.5	50.9	63.2	12.3	
360	3.4	51.0	62.9	11.9	
340	3.0	51.4	63.0	11.6	
320	2.7	51.7	62.8	11.1	
300	3.1	51.3	62.5	11.2	
280	4.1	50.3	62.5	12.2	
260	4.7	49.7	62.5	12.8	
240	5.7	48.7	62.7	13.5	
220	5.8	48.6	62.2	13.6	
200	5.7	48.7	61.9	13.2	
180	6.3	48.1	62.1	14.0	
160	6.2	48.2	61.9	13.7	
140	5.5	48.9	61.6	12.7	6.85
				190.7	x 20

3814.0 ✓

554.41

v.35

Hydr. F.

Rock emb.

5120	5.2	49.2	61.6	12.4		
100	16.1	38.3	61.7	23.4		
080	16.6	37.8	61.8	24.0		
060	16.4	38.0	61.8	23.8		
040	17.0	37.4	61.7	24.3	12.15	2042.0
030	16.8	37.6	61.6	24.0	24.15 x 10	2049.0
						241.5
						2290.5
						2283.5

102.10 x 10

~~102.15 x 10~~

B.M. 0.86 567.33 566.47

N 3440

5590

0.6

580

1.9

65.4 75.8

560

0.7

66.6 75.6

540

+1.6

68.9 75.1

520

0.6

10.4 } 5.2 x 10
5.2

9.0

6.2

20.4 x 20

Hydr. Fi

Rock emb.

41

52.0

52.0

408.0

total

460.0

N 3460
5.67.33

42

Hydr. F.

Rock emb.

5460

0.6

480

0.9

66.4 74.7

8.3

500

7.1

60.2 74.5

14.3

520

7.0

60.3 74.7

14.4

540

8.0

59.3 74.4

15.1

560

6.6

60.7 74.5

13.8

580

1.9

65.4 74.9

9.5 4.75 10.65x20

14 13.0

590

0.6

} 4.75x10

(47.5)

~~475.0~~

1888.0

1460.5 ✓

N3480

43

567.33

Hydr. F.

Rock emb.

5610

O.G.

600

5.7

61.6 74.3

12.7

} 6.35x10
6.35

63.5

580

6.2

61.1 74.2

13.1

560

8.6

58.7 73.6

14.9

540

15.7

51.6 73.1

21.5

520

11.6

55.7 73.2

17.5

500

9.8

57.5 72.9

15.4

480

5.3

62.0 72.2

10.2

460

+0.7

68.0 73.5

5.5

} 2.75 101.70x20
2.75x10

2034.0

450

O.G.

27.5

T.P.

10.03

557.30

2125.0 ✓

1.78

559.08

N 3500 (Note: Solid rock below E.L. 550)

44

559.08

5460	6.4	52.7	67.1	-14.4	7.7
480	5.0	54.1	67.4	13.3	
500	7.3	51.8	67.5	15.7	
520	—	50.3	68.3	18.0	
540	10.3	48.8	68.2	19.4	
560	0.6			74.1 x 20	

Solid Rock

Hydr. F.

Rock emb.

1.2 x 10 = 12^{0'}

1482.0

N 3520 (Note: Solid Rock Below E.L. 550)

E 5570

0.6

560	1.7	57.4	63.6	5.2	
540	11.4	47.7	63.4	15.7	
520	—	44.8	63.9	19.1	
500	17.2	41.9	63.8	21.9	
480	9.5	49.6	63.9	14.3	
460	7.9	51.2	63.8	12.6	

Solid Rock

5.2 } 26 x 10
2.6

0.0 } 10'

26.0

2.3

5.2

8.1

0.4 } 10' total = 306.5^{0'}

0.0 }
End Aug 23 - 1932

1598.0

79.9 x 20

1624.0

Total Solid Rock below 550. EL. 444.4 cubyds

Start Aug 24 - 1932

45

N 3540

Hydr. F. Rock emb.

B.M.

542.04

10.74 552.78

1.75 551.03

10.75 561.78

10.53 551.25

2.51 553.76

(Note: Solid Rock below EL. 550)

E 5460	3.3	50.5	63.9	13.4	6.7	0.0
480	10.0	43.8	63.5	19.7		6.2
500	14.7	39.1	63.5	14.4		10.9
520	—	41.8	63.8	22.0		8.2
540	9.3	44.5	63.8	19.3		5.5
560	0.6			82.1	x 20	0.0
						5' total 574.75' ✓
						1642.0

N 3560

570	0.6					
560	4.0	49.8	63.7	13.9	} 6.95 x 10 6.95	69.5
540	12.8	41.0	63.7	22.7		
520	15.5	38.3	63.8	25.5		
500	15.7	38.1	63.7	25.6		
480	13.0	40.8	63.7	22.9		
460	2.8	51.0	63.8	12.2	6.1	2195.0
				109.75	x 20	2264.5 ✓

N3580

553.76

5570	0.6		
560	1.8	52.0	63.4
540	16.0	37.8	63.1
520	15.5	38.3	63.3
500	16.8	37.0	63.7
480	16.3	37.5	63.4
460	6.3	47.5	63.7

N3600

5570	0.6		
560	2.3	51.5	63.6
540	14.6	39.2	63.4
520	15.4	38.4	63.3
500	15.9	37.9	63.4
480	18.4	35.4	63.3
460	9.1	44.7	63.4

46

46

138

Hydr. F.

Rock emb.

11.4 } 5.7 x 10
5.7

57.0 ✓

25.3

25.0

26.2

25.9

16.2 8.1

2324.0 ✓

116.2 x 20

2381.0 ✓

11.9 } 5.95 x 10
5.95

59.5 ✓

24.2

24.9

25.5

27.9

18.7 9.35

2356.0 ✓

117.8 x 20

2415.5 ✓

Hydr. F. Rock emb.

B.M. 12.61 552.00 539.39

0.67 551.33

12.23 563.56
41

50.15	34.6	29.0	61.1	37.1	} 32.45 x 35	1135.75
4980	35.0	28.6	61.4	32.8		
970	26.0	37.6	61.1	23.5	} 52.35 x 20 ^{x10}	523.5
960	27.4	36.2	61.1	24.9		709.7
940	27.1	36.5	61.1	24.6	12.45	
4900	2.4	61.2	61.1	0.0		
880	2.6	61.0	61.1	0.1		
860	3.7	59.9	61.1	1.2		
840	2.6	61.0	59.6	0.0		
820	3.1	60.5	59.4	0.0		
800	5.2	58.4	58.5	0.1		
780	10.0	53.6	56.2	2.6		
760	9.8	53.8	57.1	3.3		
740	9.4	54.2	62.4	8.2	4.1	969.0 ✓
				48.45	x20	2309.45
						2628.25

N3480

48

563.56

4720	9.0	54.6	62.9
700	8.3	55.3	69.6
680	7.8	55.8	69.6
660	7.9	55.7	70.2
640	8.7	54.9	70.3
620	0.6		

+1

Hydr. F.

Rock emb.

8.3

12.3

13.8

14.5

15.4

112.75 x 20

+1

116.85 x 20

1368.0

2337.0

N3500

620	0.6		
640	8.1	55.5	61.4
660	8.5	55.1	60.4
680	7.5	56.1	60.8
700	9.2	54.4	59.4
720	9.3	54.3	59.3
740	9.7	53.9	55.9
760	9.5	54.1	55.3
780	5.1	58.5	55.0
800	7.5	59.1	60.7
820	3.3	60.3	61.1
840	3.6	60.0	61.3

5.9

5.3

4.7

5.0

3.0

2.0

1.2

0.0

1.6

0.0

0.0

52.7 x 20

115 22.4 x 20

448.0 ✓

570

N 3500

22.6

49

563.56

Hydr. F.

Rock emb.

4860	3.5	60.1	61.3	1.2		
880	2.9	60.7	61.1	0.4		
900	1.9	61.7	61.4	0.0	4.7 x 20	134.0
					} 11.95 x 40	478.0
940	26.1	37.5	61.4	23.9		
950	27.6	36.0	61.4	25.4	} 24.65 x 10	246.5
970	29.6	34.0	61.6	27.6		} 26.5 x 20
4980	34.9	28.7	61.4	32.7	} 30.15 x 10	301.5
5017	35.0	28.6	61.4	32.8		} 32.75 x 37
						<u>911.75</u>
						7601.75
						7901.75

563.56

Hydr. F.

Rock emb.

5020	34.9	28.7	61.7	33.0	} 32.7 x 20	654.0
980	35.0	28.6	61.0	32.4		642.0
970	27.4	36.2	61.1	24.9	} 53.6 x 10	536.0 ✓
-960	27.3	36.3	61.3	25.0		
-940	26.3	37.3	61.5	24.2	} 24.6 x 20	492.0 ✓
-4900	2.2	61.4	61.1	0.0		} 12.1 x 40
880	3.6	60.0	61.0	1.0		
860	2.9	60.7	61.1	0.4		
840	5.4	58.2	60.7	2.5		
820	3.9	59.7	60.9	1.2		
800	4.3	59.3	60.8	1.5		
780	4.7	58.9	60.7	1.8		
760	10.9	52.7	55.2	2.5		
740	10.1	53.5	54.7	1.2	0.6, 11.5 x 20	230.0 ✓
720	9.5	54.1	55.0	0.9		2386.0
700	9.5	54.1	54.5	0.4		2396.
680	0.6			1.9	x 20	38.0 ✓

563.56

Hydr. F.

Rock emb.

5020	33.9	29.7	61.6	31.9	} 31.0x40	1240.01
4980	33.9	29.7	59.8	30.1		1240
70	28.6	35.0	59.7	24.7	} 51.4x10	514.0 ✓
60	28.1	35.5	58.8	23.3		
40	26.7	36.9	59.5	22.6	} 22.95x20	459.0 ✓
						} 11.35x40
4900	2.9	60.7	60.8	0.1	} 0.05	
880	4.9	58.7	60.4	1.7		
860	6.1	57.5	59.8	2.3		
840	7.1	56.5	60.3	3.8		
820	8.2	55.4	57.4	2.0		
800	9.5	54.1	55.4	1.3		
780	10.9	52.7	54.3	1.6		
760	11.4	52.2	53.8	1.6		
740	11.5	52.1	53.2	1.1	0.55	298.0 ✓
				14.90	x20	1849.0
						2965.0

563.56

Hydr. F.

Rock emb.

4920	7.7	55.9	58.6	2.7	1.35
900	8.9	54.7	56.0	1.3	
880	9.2	54.4	58.4	4.0	
860	11.5	52.1	53.8	1.7	
840	10.6	53.0	53.4	0.4	
820	10.2	53.4	53.2	0.0	
800	11.2	51.9	53.3	1.4	
780	11.3	52.3	53.3	1.0	
760	11.5	52.1	53.3	1.2	
740	11.3	52.3	53.4	1.1	0.55
				12.90	x 20

258.0 ✓

N 3620

E 740	11.9	51.7	53.9	2.2	1.1
760	11.7	51.9	54.1	2.2	
780	11.5	52.1	54.4	2.3	
800	11.0	52.6	54.0	1.4	
820	11.0	52.6	54.3	1.7	
840	11.1	52.5	54.3	1.8	
860	11.1	52.5	53.2	0.7	
880	12.7	50.9	53.5	2.6	
900	14.6	49.0	53.8	4.8	
920	16.8	46.8	53.9	7.1	3.55
				22.15	x 20

443.0 ✓

N3660

53

563.56

Hydr. F.

Rock emb.

4900	10.7	52.9	54.5	1.6	} 2.8 x 10 0.5	28.0 ✓
890	10.9	52.7	54.2	1.5		
880	10.3	53.3	54.3	1.0		
860	10.1	53.5	54.8	1.3		
840	10.0	53.6	54.8	1.2		
820	9.5	54.1	54.8	0.7		
800	9.0	54.6	54.4	0.0		
780	9.0	54.6	54.5	0.0		
760	8.9	54.7	57.4	2.7		
740	8.4	55.2	57.7	2.5	1.25	153.0 ✓
				7.65	x 20	181.0

N.3700

4680	17.3	46.3	59.9	13.6	6.8	
700	13.5	50.1	59.8	9.7		
720	6.4	57.2	60.0	2.8		
740	3.6	60.0	60.0	0.0	19.30 x 20	386.0
760	4.6	59.0	59.9	0.9		386.0 ✓
780	4.8	58.8	59.2	0.4		
800	5.0	58.6	58.4	0.0		
820	5.2	58.4	59.9	1.5		
840	7.9	55.7	56.1	0.4		

3700

563.56

4860

8.4

55.2 55.4

0.2

880

8.9

54.7 55.4

0.7

900

10.2

53.4 56.1

2.7

920

10.1

53.5 56.3

3.2

940

11.0

52.6 54.1

1.5 .75

10.75 x 20

Hydr. F.

Rock emb.

215.0 ✓

59

N3620

56

541.01

5020	11.9	29.1	57.2
4980	11.7	29.3	55.9
770	1.3	39.7	56.0
960	1.9	39.1	55.7
940	1.7	39.3	54.6
T.P.	1.60	539.41	

11.51 550.92

N3660

4950	9.5	41.4	54.2
960	9.8	41.1	54.2
975	8.9	42.0	55.0
990	21.5	29.4	55.0
5020	20.5	30.4	55.1
030	10.8	40.1	55.4
040	11.4	39.5	56.5
060	10.2	40.7	56.4
080	11.3	39.6	56.5
100	11.7	39.2	57.6
120	10.2	40.7	60.6
140	0.0	50.9	61.8

28.1	23.55x10	Hydr. F.	235.5 ✓
26.6	14.05	Rock emb.	1094.0
16.3	13.5		379.0
16.6	8.5		319.0
15.3	7.65		1624.0
8.2	x20		

 3532.0
 3700.0

12.8			
13.1	12.95x10		129.5 ✓
13.0	13.85x15		195.75 ✓
25.6	19.3x15		289.5 ✓
24.7	25.15x30		754.5 ✓
15.3	36.15x10		361.5 ✓
17.0	8.5		
15.7			
16.9			
18.4			
19.9			
10.9	5.45		1697.0 ✓
84.85	x20		3427.75 ✓

Hydr. F.

Rock emb.

560.22

5040	10.6	49.6	54.5
60	11.0	49.2	54.8
80	11.5	48.7	54.9
100	12.0	48.2	55.0
20	11.3	48.9	55.2
40	11.8	48.4	55.0

4.9 } 4.75
 2.45 } 2.45 x 10

47.5
~~47.0~~

5.6

6.2

6.8

6.3

6.6 } 33
 30.65 x 20

613.0 ✓

~~1715.75~~
 1778.75 ✓

N3780

5140	9.7	50.5	55.4
120	9.6	50.6	55.7
100	8.8	51.4	54.6
080	7.5	52.7	56.7
060	6.6	53.6	57.1
040	4.2	56.0	57.7
035	2.8	57.4	58.7
5020	16.5	43.7	62.2
4985	16.5	43.7	64.8
4975	1.2	59.0	66.5
4960	+30	63.2	67.8
4940	0.6		
T. P.	8.47	551.75	

4.9 2.45

5.1

3.2

4.0

3.5

1.7 } .85 19.0 x 20

1.3 } 1.5 x 5

18.5 } 9.9 x 15

21.1 } 19.8 x 35

7.5 } 14.3 x 10

4.6 } 6.0 x 15

2.3 x 20

382.0 ✓

7.75 ✓

148.5 ✓

693.0 ✓

143.0 ✓

90.75 ✓

46.0 ✓

~~1128.75~~

End Aug 24 - 1932

1510.75 ✓

12.01 563.76

Start Aug 25 - 1932

N3820

59

563.76

E 5140	9.0	54.8	56.9	2.1	1.05
120	8.6	55.2	57.8	2.6	
100	7.5	56.3	59.8	3.5	
080	7.4	56.4	59.6	3.2	
060	4.0	59.8	61.6	1.8	
040	+4.1	67.9	68.6	0.7	
020	+13.0	76.8	76.1	0.0	
5000	+14.8	78.6	81.6	3.0	
4980	+14.6	78.4	86.0	7.6	3.8
4960	0.6			19.65	20

Hydr. F. Rock emb.

393.0

N3860

5140	0.0	63.8	66.4	2.6	1.3
120	+4.0	67.8	68.1	0.3	
100	+11.0	74.8	74.7	0.0	
080	+14.2	78.0	82.1	4.1	
060	+16.8	80.6	91.7	11.1	
040	0.6			16.8	20
B. M.	9.82	553.94	553.85		

336.0 ✓

N3820

60

B.M. 4.19 554.17 549.98

E4490

0.6

485

6.0

48.2 68.2

20.0

10.0 x 5

50.0 ✓

470

4.1

50.1 65.8

15.7

17.85 x 15

267.75 ✓

450

2.2

52.0 64.0

12.0

13.85 x 20

277.00 ✓

440

0.4

53.8 63.7

9.9

10.95 x 10

109.50 ✓

420

0.6

53.6 64.5

10.9

4.95

400

0.5

53.7 65.4

11.7

380

0.0

54.2 65.1

10.9

360

11.1

55.3 64.2

8.9

340

12.0

56.2 63.5

7.3

1093.0 ✓

320

0.6

54.65 x 20

1797.25 ✓

N3800

E4520

0.6

4500

7.1

47.1 63.7

16.6

~~8.3~~

480

7.1

47.1 63.2

16.1

460

3.5

50.7 63.2

12.5

440

2.8

51.4 63.0

11.6

420

2.1

52.1 63.6

11.5

400

1.7

52.5 63.9

11.4

380

0.6

53.6 64.2

10.6

Hydr-F.

Rock emb.

N3800

554.17

4360	0.7	53.5	63.5	10.0
340	1.2	53.0	63.0	10.0
320	0.6			10.0 0×20
				110.3 $\times 20$

Hydr. F.

Rock emb.

~~2040.0~~
2206.0

B.M. 6.79 556.77 549.98

N3780

E4500	10.6	46.2	63.1	16.9	8.45
520	6.8	50.0	63.0	13.0	
540	0.0	56.8	63.3	6.5	
560	0.6			27.95 $\times 20$	

559.0 ✓

N3760

4640	0.6				
620	+3.0	53.8	62.7	8.4	
600	4.0	52.8	62.7	9.4	
580	4.5	52.3	62.0	9.7	
560	5.9	50.9	61.3	10.4	
540	9.0	47.8	60.5	12.7	
520	10.4	46.4	60.2	13.8	
500	10.7	46.1	60.4	13.3	6.65
				71.05 $\times 20$	

1421.0 ✓

N 3740

556.77

E4520	11.0	45.8	60.5-147
540	11.4	45.4	60.3-149
560	4.9	51.9	60.3-86
580	8.1	48.7	60.0-11.3
600	6.2	50.6	60.0-96
620	5.5	51.3	59.9-86
640	2.0	54.8	59.7-49
660	0.6		

N 3720

4520	16.4	40.4	60.5	20.1	10.65
540	13.0	43.8	60.5	16.7	
560	18.0	43.8	60.5	16.7	
580	13.0	43.8	60.2	16.4	
600	9.3	47.5	60.1	12.6	
620	7.3	49.5	59.8	10.3	
640	7.2	49.6	59.7	10.1	
660	4.7	52.1	59.7	7.6	
680	0.6			100.45	20

62

Note: In Core Wall Trench
North of N. 3670 and below
stripped area to be classed as
solid rock.

Hydr. F.

Rock emb.

44.25 x 20

1297.0 ✓

100.45 x 20

2009.0 ✓

Puddle Core Trench
Cross-sections
Solid Rock

Aug. 26, 1932.

Total Area = 2663.7 - cub. yds.

B.M.	7.64	547.03	539.39
		<u>N3670</u>	
E 4965		3.3	43.7
4978		16.7	30.3
5013		15.8	31.2
5022		6.9	40.1

N3690 512.94 = Area 256.45

E 4963		0.5	46.5
4977		13.6	33.4
5012		13.7	33.3
5022		4.8	42.2
T.P.		<u>0.40</u>	346.63

6.91 553.54 517.0

		<u>N3710</u>	
E 4964		4.7	48.8
4976		16.8	36.7
5011		18.4	35.1
5025		6.1	47.4

N3730 585.6

E 4965		2.1	51.4
4977		16.7	36.8
5010		16.9	36.6
5024		3.8	49.7

637.1

637.1 ✓

553.54

N3750

E 4965			1.1	52.4
4976			15.3	38.2
5010			15.6	37.9
5020			4.3	49.2

567.37^o

T.P.	8.16	561.11	0.59	552.95
------	------	--------	------	--------

N3770

E 4965			3.5	57.6
4976			15.9	45.2
5010			18.2	42.9
5020			5.9	55.2

549.57^oN3790

E 4960			+7.0	68.1
4978			5.9	55.2
5010			4.0	57.1
5015			0.3	60.8
T.P.	13.20	573.97	0.34	560.77

N3810361.05^o

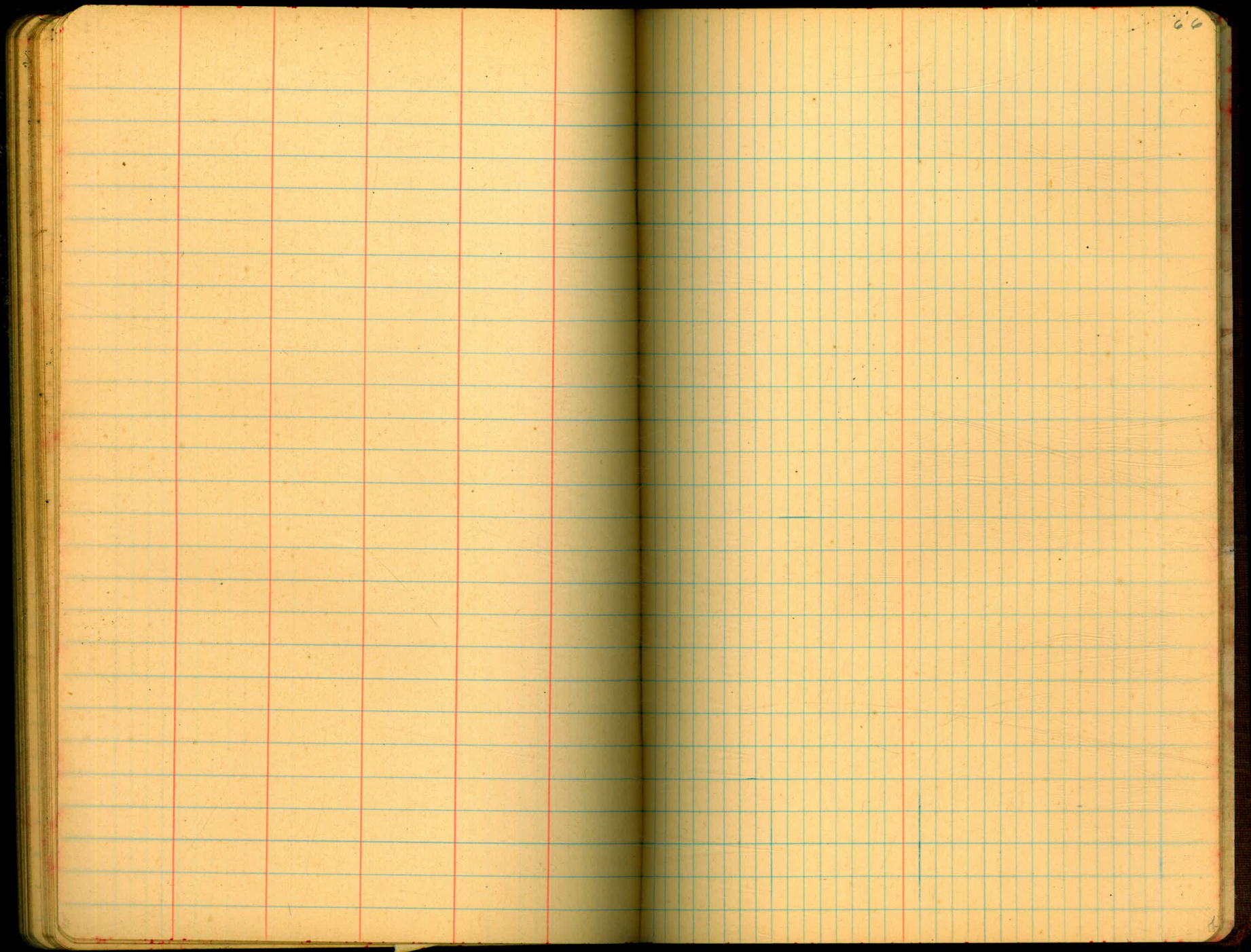
E 4970			+3.0	77.0
4983			4.4	69.6
5000			4.3	69.7
5010			0.3	73.7

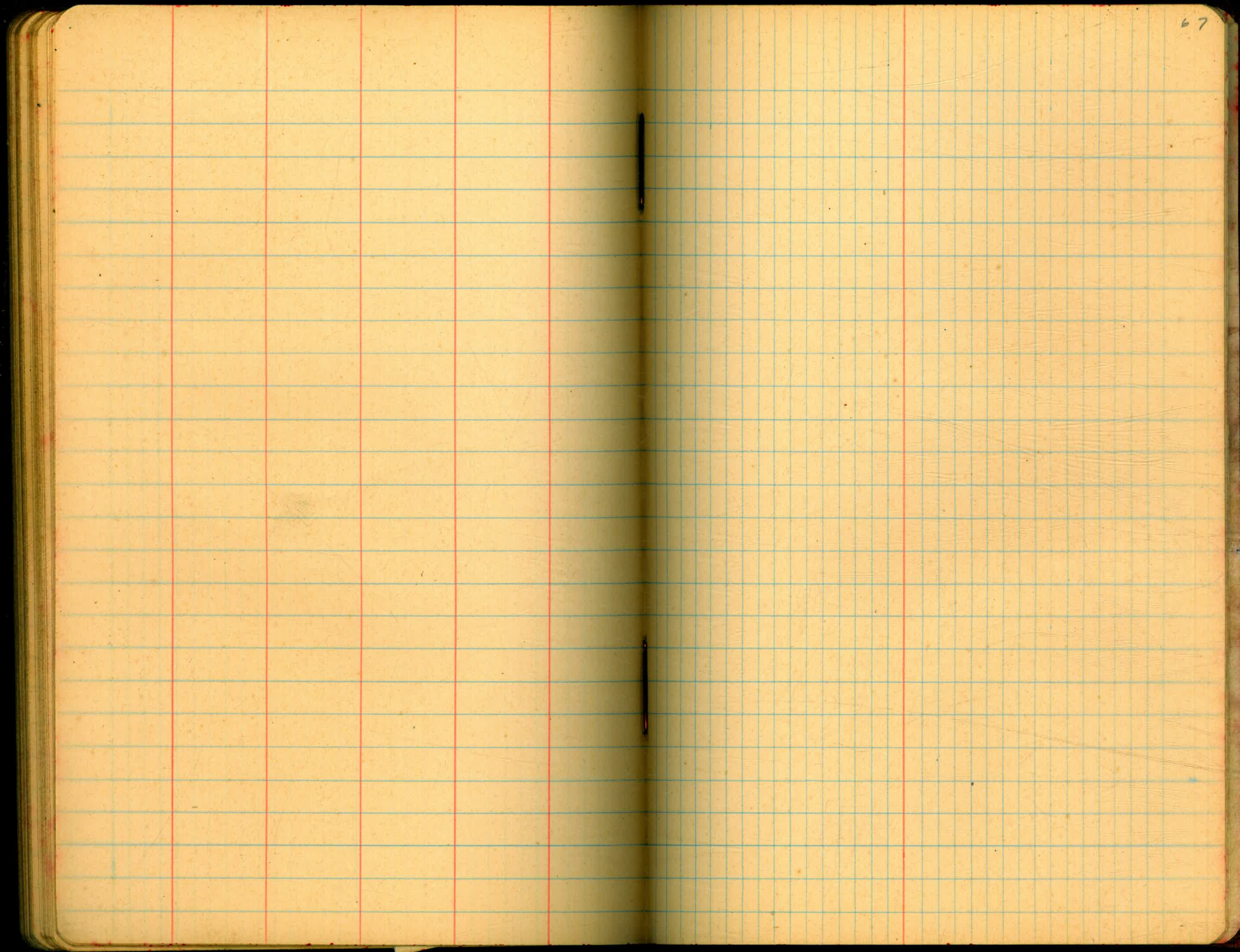
162.45^o

21.22

N. 3820 = O.G.

area = 812.2





65.9
49.5

16.4

B.M. 10.13 549.52 539.39

N3500

E 5000	13.9	35.6	61.4
4960	13.7	35.8	61.6
4935	13.1	36.4	61.4

N3480

5000	13.1	36.4	61.0
4950	13.0	36.5	61.2
4930	12.4	37.1	61.2

N3460

5000	10.3	39.2	60.3
980	7.5	42.0	60.6
960	7.2	42.3	60.4
940	6.6	42.9	60.5
920	1.3	48.2	59.8

Hydr. Rock emb.

25.8	} 25.8 x 40	1032.0 ✓
25.8		
25.0	} 25.4 x 25	635.0 ✓
25.0		
		1667.0

24.6	} 24.65 x 50	1232.5 ✓
24.7		
24.1	} 24.4 x 20	488.0 ✓
24.1		
		1720.5

21.1-10.55		
18.6		
18.1		
17.6		
11.6-5.8		
70.65 x 20		1413.0 ✓

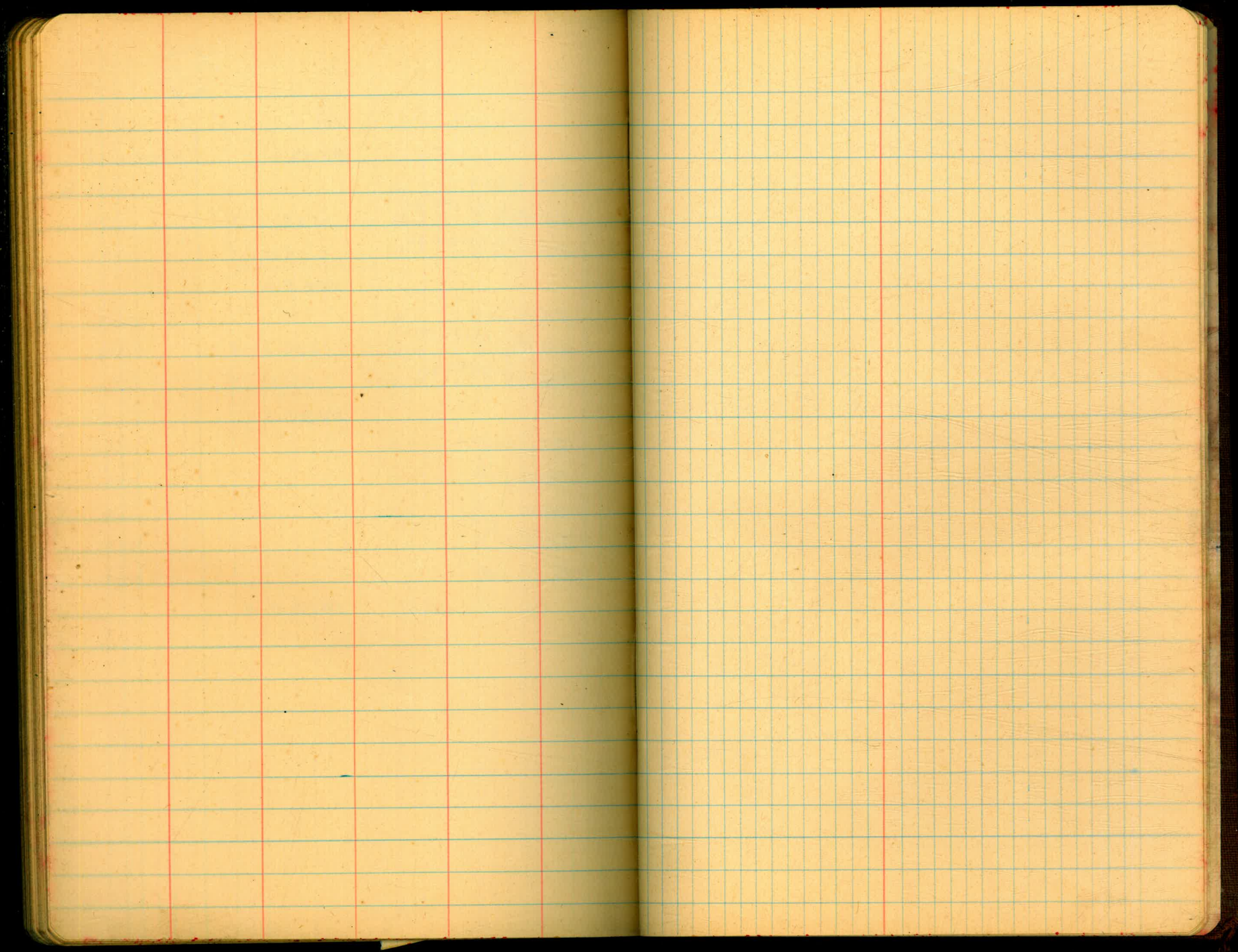


Table VII. Excavation and Embankments, Cu. Yds. per 100 ft.

Slope	¼ to 1	1 to 1			1½ to 1				All Slopes 1 Ft. Base
		BASE			BASE				
		20'	20	22	24	14	16	20	
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	11769	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
51	6185	13411	13788	14166	17081	17453	18192	18900	188.7
52	6355	13867	14251	14635	17719	18104	18874	19644	192.4
53	6527	14330	14711	15099	18367	18752	19524	20300	196.1
54	6700	14800	15200	15600	19000	19400	20200	21000	200.0
55	6875	15275	15675	16075	19625	20025	20825	21625	203.7
56	7051	15763	16177	16591	20226	20641	21446	22246	207.4
57	7229	16254	16679	17106	20826	21241	22046	22846	211.1
58	7410	16756	17186	17516	21426	21841	22646	23446	214.8
59	7592	17263	17693	18026	22026	22441	23246	24046	218.5
60	7777	17778	18222	18666	22611	23055	23844	24844	222.2
61	7963	18300	18750	19200	23200	23650	24440	25240	225.9
62	8151	18827	19283	19659	23775	24225	25000	25800	229.6
63	8341	19360	19822	20144	24350	24800	25500	26400	233.3
64	8532	19900	20366	20633	24925	25375	26000	27000	237.0
65	8725	20447	20911	21133	25500	25950	26500	27600	240.7
66	8919	21000	21466	21644	26075	26525	27000	28200	244.4
67	9115	21560	22033	22166	26650	27075	27500	28800	248.1
68	9312	22127	22611	22700	27225	27625	28000	29400	251.8
69	9511	22700	23199	23244	27775	28175	28500	29900	255.5
70	9722	23332	23850	24368	28325	28725	29000	30400	259.2
71	9935	23969	24477	24999	28875	29275	29500	30900	262.9
72	10150	24620	25111	25633	29425	29825	30000	31400	266.6
73	10367	25275	25750	26277	29975	30375	30500	31900	270.3
74	10585	25944	26400	26933	30525	30925	31000	32400	274.0
75	10805	26620	27066	27600	31075	31475	31500	32900	277.7
76	11027	27300	27744	28277	31625	32025	32000	33400	281.4
77	11250	27993	28433	28966	32175	32575	32500	33900	285.1
78	11475	28690	29133	29666	32725	33125	33000	34400	288.8
79	11700	29400	29844	30377	33275	33675	33500	34900	292.5
80	11927	30120	30566	31100	33825	34225	34000	35400	296.2
81	12155	30850	31300	31833	34375	34775	34500	35900	299.9
82	12385	31590	32044	32577	34925	35325	35000	36400	303.6
83	12615	32340	32800	33333	35475	35875	35500	36900	307.3
84	12847	33090	33566	34100	36025	36425	36000	37400	311.0
85	13080	33850	34344	34877	36575	36975	36500	37900	314.7
86	13315	34620	35133	35666	37125	37525	37000	38400	318.4
87	13550	35400	35933	36466	37675	38075	37500	38900	322.1
88	13787	36190	36744	37277	38225	38625	38000	39400	325.8
89	14025	37000	37566	38100	38775	39175	38500	39900	329.5
90	14265	37820	38400	38933	39325	39725	39000	40400	333.2
91	14505	38650	39244	39777	39875	40275	39500	40900	336.9
92	14747	39500	40100	40633	40425	40825	40000	41400	340.6
93	14990	40360	40966	41500	40975	41375	40500	41900	344.3
94	15235	41230	41844	42377	41525	41925	41000	42400	348.0
95	15480	42110	42733	43266	42075	42475	41500	42900	351.7
96	15727	43000	43633	44166	42625	43025	42000	43400	355.4
97	15975	43900	44544	45077	43175	43575	42500	43900	359.1
98	16225	44810	45466	46000	43725	44125	43000	44400	362.8
99	16475	45730	46400	46933	44275	44675	43500	44900	366.5
100	16667	46660	47344	47877	44825	45225	44000	45400	370.2

5000
60
20
48.80
40

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	