

W
426

WYLLI BOOK

373 A

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

426

MICROFILMED

JAN 12 1965

Chocolate Creek Area
Silt Deposit X-sections
Contractors engineering crew/
Notes for city by P.O.G.

INDEX

N2290 - 2390	E10090 - 10400	P-1-20
N2900 - 3070	E10500 - 10310 ±	P-20-36
N28-90 2740	E10500 - 10310	P-36-54
N2740 - 2980	E10510 10700	55-79

MICROFILMED

JAN 1982

N2290

618.45

E10 090	18.5	4.3	14.2
10100		7.7	10.8
10		5.1	13.4
20		7.7	10.8
30		0.6	17.9

630.25

40	30.2	10.5	19.7
50		9.4	20.8
60		8.4	21.8
70		7.8	22.4
80		7.5	22.7
90		7.4	22.8
10200		6.9	23.3
10		6.8	23.4
20		6.7	23.5
30		6.4	23.8
40		6.3	23.9
50		6.1	24.1
60		6.2	24.0

2-6-33

see B-P

①

P.O.G Notes
 clavert TR
 Wade R Φ
 Kearnin TR

N 2290

(2)

630.25

E10290	6.0	24.2
80	5.9	24.3
90	6.0	24.2
10300	6.3	23.9
10	6.3	23.9
20	6.2	24.0
30	6.2	24.0
40	6.2	24.0
50	5.9	24.3
60	5.0	25.2
70	4.3	25.9
80	3.3	26.9
90	2.3	27.9
10400	1.0	29.2

N 2300

10400	1.7	28.5
390	2.8	27.4
80	3.7	26.5
70	4.5	25.7

K2300

3

630.25

E10360	5.6	24.6
50	6.0	24.2
40	6.3	23.9
30	6.4	23.8
20	6.4	23.8
10	6.4	23.8
10300	6.3	23.9
290	6.3	23.9
80	6.2	24.0
70	6.3	23.9
60	6.3	23.9
50	6.1	24.1
40	6.5	23.7
30	6.7	23.5
20	6.9	23.3
10	6.9	23.3
10200	7.1	23.1
190	7.4	22.8
80	7.7	22.5

N2300
630.25

2-6-33

E10170	8.2	22.0
160	9.2	21.0
50	10.0	20.2
40	10.7	19.5
30	11.7	18.5

618.45

20	2.0	16.5
10	4.5	14.0
10100	7.1	11.4
090	9.0	09.5

N2310
618.73

2-6-33
2-7-33

E10090	9.8	08.9
10100	7.0	11.7
10	4.9	13.8
20	3.0	15.7
30	1.3	17.4
40	11.5	18.6
50	10.0	20.1
60	9.2	20.9

630.11

607.45 BM
+11.00
618.45
-0.13
618.32
+0.41
618.73 Level

618.32
+11.79
630.11 Transit

N 2310
630.11

⑤

E10170	8.2	21.9
80	7.6	22.5
90	7.4	22.7
10200	7.2	22.9
10	7.0	23.1
20	6.9	23.2
30	6.8	23.3
40	6.7	23.4
50	6.3	23.8
60	6.3	23.8
70	6.3	23.8
80	6.3	23.8
90	6.4	23.7
10300	6.4	23.7
10	6.4	23.7
20	6.4	23.7
30	6.4	23.7
40	6.2	23.9
50	6.0	24.1

N2310

630.11

2-7-33

P.O. Co. Notes

Clovert π
Wade Rd

E10360	5.7	244
70	5.0	251
80	4.0	261
90	3.4	267
E10400	2.2	279

N2320

E10400	3.0	271
390	3.9	262
80	4.6	255
70	5.1	250
60	6.0	241
50	6.3	238
40	6.4	237
30	6.5	236
20	6.5	236
10	6.5	236
10300	6.7	234
290	6.5	236
80	6.5	236

N2320

630.11

⑦

E10270 6.5 23.6

60 6.3 23.8

50 6.3 23.8

40 6.8 23.3

30 6.9 23.2

20 7.0 23.1

10 7.1 23.0

10200 7.1 23.0

190 7.3 22.8

80 7.3 22.8

70 7.7 22.4

60 8.3 21.8

50 9.2 20.9

40 10.7 19.4

618.73

30 0.9 17.8

20 2.9 15.8

10 4.7 14.0

10100 7.2 11.5

N2320

6/8/73

2-7-33

P.O.G. Notes
Clavert \times
Wade Rd.

(8)

E10090 9.0 09.7

N2330

630.11

E10408 3.6 26.5

390 4.2 25.9

80 4.7 25.4

70 5.3 24.8

60 5.8 24.3

50 6.1 24.0

40 6.1 24.0

30 6.2 23.9

20 6.2 23.9

10 6.2 23.9

10300 6.1 24.0

290 6.1 24.0

80 6.1 24.0

70 5.9 24.2

60 5.9 24.2

50 5.9 24.2

40 6.5 23.6

N2330

630.11

E10230	6.3	23.8
20	6.4	23.7
10	6.3	23.8
10200	5.7	24.4
190	6.3	23.8
180	6.3	23.8
70	7.0	23.1
60	7.6	22.5
50	8.3	21.8
40	9.5	20.6
30	10.7	19.4
20	12.2	17.9

618.73

10	4.6	14.1
10100	6.3	12.4
090	8.7	10.0

N2340

E10090	9.2	09.5
10100.	6.4	12.3

(9)

K2340

618.73

2-7-33

(10)

E10110 3.9 15.8

20 1.0 17.7

630.11

30 10.7 19.4

40 9.6 20.5

50 8.7 21.4

60 8.0 22.1

70 7.3 22.8

80 7.2 22.9

90 6.7 23.4

10 200 6.7 23.4

10 5.9 24.2

20 6.2 23.9

30 6.1 24.0

40 6.0 24.1

50 6.3 23.8

60 6.1 24.0

70 6.1 24.0

80 6.1 24.0

reduced by 0.06 ↓

N 2340

630.11

E10290	6.2	23.9
10300	6.1	24.0
10	6.3	23.8
20	6.5	23.6
30	6.6	23.5
40	6.4	23.7
50	6.6	23.5
60	6.1	23.0
70	5.7	24.4
80	5.0	25.1
90	4.4	25.7
10400	3.9	26.2

N 2350

E10400	4.9	25.2
390	5.2	24.9
80	5.7	24.4
70	6.3	23.8
60	6.7	23.4
50	6.8	23.3

(11)

N 2350

630.11

2-7-33

(12)

E10340	7.0	23.1
30	7.0	23.1
20	7.1	23.0
10	6.6	23.5
10300	6.5	23.6
290	6.7	23.4
280	6.5	23.6
70	6.3	23.8
60	6.2	23.9
50	5.7	24.4
40	5.3	24.8
30	5.2	24.9
20	5.1	25.0
10	4.8	25.3
10200	5.2	24.9
190	5.9	24.2
80	6.6	23.5
70	7.0	23.1
60	7.5	22.6

N2350

630.11

E10150	8.0	22.1
40	8.4	21.7
30	10.2	19.9
20	11.8	18.3

618.73

10	2.1	16.6
10100	5.7	13.0
090	9.0	09.7

N2360

10090	7.2	09.5
10100	5.3	13.4
10	2.2	16.5
20	0.5	18.2

630.11

30	10.2	19.9
40	9.0	21.1
50	8.0	22.1
60	7.8	22.3
70	7.4	23.0

N2360

63071

2-7-30

(14)

E10180	6.1	24.0
90	5.2	24.9
200	4.4	25.7
10	4.0	26.1
20	4.1	26.0
30	4.5	25.6
40	5.0	25.1
50	5.4	24.7
60	5.7	24.4
70	6.4	23.7
80	6.7	23.4
90	6.7	23.4
10300	6.8	23.3
10	6.9	23.2
20	7.1	23.0
30	7.1	23.0
40	7.0	23.1
50	6.9	23.2
60	7.0	23.1

N 2360

C30.11[✓]

2-7-33

(15)

E10370	6.6	23.5
80	6.2	23.9
90	5.6	24.5
10400	5.3	24.8

N 2370

10400	5.7	24.4
390	6.4	24.0
80	6.6	23.5
70	6.9	23.2
60	7.2	22.9
50	7.1	23.0
40	7.3	22.8
30	7.3	22.8
20	7.1	23.0
10	7.0	23.1
10300	6.9	23.2
290	6.8	23.3
80	6.6	23.5
70	5.9	24.2

N 2370

630.11 ✓

2-7-33

16

E10260	5.5	24.6
50	5.0	25.1
40	4.2	25.9
30	3.4	26.7
20	2.9	27.2
10	2.8	27.3
10100	3.3	26.8
170	3.9	26.2
80	5.0	25.1
70	6.6	23.5
60	7.6	22.5
50	8.6	21.5
40	9.4	20.7
30	10.1	20.0
20	11.2	18.9
10	1.8	16.9
10100	4.8	13.9
090	2.6	10.1

618.73 ✓

N2380

(17)

612-73^v

2-7-33

E10090		8.6	10.1
10100		5.5	13.2
10		2.8	15.9
20	✓	1.1	17.6
30	630.11	11.0	19.1
40		8.8	21.3
50		8.2	21.9
60		7.1	23.0
70		6.0	24.1
80		4.6	25.5
90		3.1	27.0
10200		2.3	27.8
10		1.7	28.4
20		1.6	28.5
30		2.0	28.1
40		2.7	27.4
50		3.6	26.5
60		4.3	25.8
70		5.2	24.9

N 2380

(18)

639.11

2-7-33

E10280	5.8	24.3
90	6.3	23.8
10300	6.9	23.2
10	7.0	23.1
20	7.2	22.9
30	7.4	22.7
40	7.4	22.7
50	7.3	22.8
60	7.2	22.9
70	7.2	22.9
80	6.8	23.3
90	6.5	23.6
10400	5.8	24.3

N 2390

E10400	6.3	23.8
390	6.9	23.2
80	7.3	22.8
70	7.4	22.7
60	7.3	22.8

N 2390

(19)

630.41

2-7-33

E10350	7.5	22.6
40	7.6	22.5
30	7.4	22.7
20	6.8	23.3
10	6.8	23.3
10300	6.4	23.7
290	5.9	24.2
80	5.3	24.8
70	4.4	25.7
60	3.4	26.7
50	2.6	27.5
40	1.9	28.2
30	1.2	28.9
20	0.5	29.6
10	0.5	29.6
10200	0.8	29.3
190	1.8	28.3
80	3.6	26.5
70	4.8	25.3

N 2890

630.11 ✓

2-7-33

(20)

E10160		6.3	23.8
50		7.5	22.6
40		8.6	21.5
30		9.5	20.6
	618.73 ✓		
20		1.1	17.6
10		2.7	16.0
10100		4.5	14.2
090		8.3	10.4

In clay deposit area

11.10 619.15 ✓ 608.05 B.M.
 0.16 608.21 ✓

N 2900

619.15 ✓

E10500		3.2	15.9
490		2.8	16.3
30		2.7	16.4
70		2.2	16.9
60		1.9	17.2
50		1.9	17.2
40		2.0	16.1

N2900

619.15

E10430	2.2	16.9
20	2.5	16.6
10	2.5	16.6
10400	2.2	16.9
390	2.6	16.5
80	2.7	16.4
70	2.7	16.4
60	2.7	16.4
50	2.6	16.5
40	2.6	16.5
30	2.4	16.7
20	3.6	15.5
10	3.9	15.2

N2910

E10310	5.1	14.0
20	4.8	14.3
30	4.2	14.9
40	4.0	15.1
50	3.3	15.8

2-7-33

(21)

N 2910
619.15^y

2:7-33

(22)

E10360	2.6	16.5
70	2.7	16.4
80	2.6	16.5
90	2.8	16.3
10400	2.7	16.4
10	2.4	16.7
20	2.3	16.8
30	2.3	16.8
40	2.7	16.4
50	2.6	16.5
60	2.6	16.5
70	2.9	16.2
80	2.9	16.2
90	3.0	16.1
10500	3.5	15.6

N 2920

E10500	5.1	14.0
490	4.1	15.0
80	3.6	15.5

N2920

619.15

E10470	3.3	15.8
60	3.2	15.9
50	3.0	16.1
40	3.1	16.0
30	3.4	15.7
20	3.2	15.9
10	3.2	15.9
10400	3.4	15.7
390	3.5	15.6
80	3.5	15.6
70	3.9	15.2
60	4.2	14.9
50	4.2	14.9
40	4.8	14.3
30	5.0	14.1
20	5.6	13.5
10	6.4	12.7

2-7-33

23

N 2930

619.15

2-7-33

(24)

E10310	7.3	11.8
20	6.5	12.6
30	6.1	13.0
40	5.8	13.3
50	5.1	14.0
60	4.8	14.3
70	4.5	14.6
80	4.2	14.9
90	4.1	15.0
10400	4.1	15.0
10	4.1	15.0
20	4.0	15.1
30	3.9	15.2
40	4.0	15.1
50	4.0	15.1
60	4.1	15.0
70	4.1	15.0
80	4.5	14.6
90	5.3	13.8
10500	6.5	12.6

N2940

619,15

2-7-33

(25)

E10500	7.5	11.6
490	6.6	12.5
80	5.9	13.2
70	5.5	13.6
60	5.2	13.9
50	4.9	14.2
40	4.9	14.2
30	5.0	14.1
20	5.1	14.0
10	5.1	14.0
10400	5.1	14.0
390	5.1	14.0
80	5.2	13.9
70	5.4	13.7
60	5.6	13.6
50	6.2	13.9
40	6.9	12.2
30	7.8	11.3
20	8.3	10.8
10	9.6	09.5

K2950

619.15

2-7-33

(26)

E10310	10.6	08.5
20	9.7	09.4
30	8.8	10.3
40	7.8	11.3
50	6.8	12.3
60	6.3	12.8
70	5.9	13.2
80	5.9	13.2
90	5.9	13.2
10400	5.9	13.2
10	5.6	13.5
20	5.4	13.7
30	5.5	13.6
40	5.7	13.4
50	5.9	13.2
60	6.3	12.8
70	6.5	12.6
80	6.9	12.2
90	7.6	11.5
10500	8.9	10.2

N 2960

619.15

2-7-33

27

E10500	10.5	08.6
490	9.6	09.5
80	8.6	10.5
70	7.8	11.3
60	7.5	11.6
50	6.9	12.2
40	7.0	12.1
30	6.8	12.3
20	6.2	12.9
10	6.2	12.9
10400	6.0	13.1
390	6.0	13.1
80	6.3	12.8
70	6.8	12.3
60	7.4	11.7
50	8.4	10.7
40	9.2	09.9
30	10.5	08.6
20	11.6	07.5
10	13.1	06.0

K2970

619.15[✓]

7-7-33

(28)

E10310	14.8	04.3
20	13.8	05.3
30	12.0	07.1
40	10.8	08.3
50	9.8	09.3
60	8.8	10.3
70	7.8	11.3
80	7.3	11.8
90	7.2	11.9
10400	7.2	11.9
10	7.4	11.7
20	7.6	11.5
30	8.0	11.1
40	8.2	10.9
50	8.8	10.3
60	9.4	09.7
70	9.9	09.2
80	10.8	08.3
90	11.5	07.6
10500	17.3	01.8

W-E. of gully

N 2980

619.15[✓]

2-7-33

(29)

E 10500	12.3	06.8
490	20.0	99.1
80	12.0	07.1
70	12.0	07.1
60	11.5	07.6
50	11.0	08.1
40	10.3	08.8
30	9.5	09.6
20	9.0	10.1
10	8.9	10.2
10400	8.6	10.5
390	9.1	10.0
80	9.3	09.8
70	9.6	09.5
60	10.1	09.0
50	11.1	08.0
40	12.5	06.5
30	14.2	04.4
20	15.7	03.4
10310	18.2	00.9

E-E of gully

W-E gully

N 2990

619.15

2-7-33

(20)

E10500	11.9	07.2
490	15.2	03.9
80	20.2	98.9
70	20.6	98.5
60	21.5	97.6
again 60	13.0	06.1
50	13.2	05.9
40	12.6	06.5
30	11.8	07.3
20	11.1	08.0
10	10.5	08.6
10400	10.2	08.9
390	10.3	08.8
80	10.6	08.5
70	11.5	07.6
60	12.2	06.9
50	13.1	06.0
40	14.6	04.5
30	17.6	01.5

W-E vert.

11.8 slope

N 3000

608.21

P. 20

2-7-33

(21)

E 10350 5.4 02.8

14 slope

300 3.5 04.7

70 2.3 05.9

80 1.8 06.4

90 1.4 06.8

10400 1.3 06.9

10 1.5 06.7

20 2.2 06.0

30 2.5 05.7

W.E

40 11.2 97.0

50 11.7 96.5

60 9.8 98.4

70 2.3 05.9

80 1.3 06.9

90 0.4 07.8

10500 +0.5 08.7

N 3010

E 10500 +1.6 09.8

490 0.6 07.6

N3010

608.21

2-7-33

(32)

E10480	0.0	08.2
70	1.1	07.1
60	2.3	05.9
50	3.3	94.9
40	4.6	02.6
again 40	12.0	96.2
30	14.5	93.7
20	11.3	96.7
17	3.8	94.4
10	3.4	93.8
10400	3.1	95.1
390	3.2	95.0
80	3.9	94.3
70	4.8	03.4

N3020

E10380	8.2	00.0
90	5.4	02.8
10400	5.0	03.2
10	5.2	03.0

N3020

608.21

2-7-33

23

E10420	15.6	92.6
30	9.5	98.7
again		
30	5.6	02.6
40	4.3	03.9
50	3.0	05.2
60	1.6	06.6
70	0.5	07.7
80	+0.5	08.7
90	+1.4	09.6
10500	+2.7	10.9

N3030

E10500	+2.6	10.8
490	+1.9	10.1
80	+0.7	08.9
70	0.3	07.9
60	1.7	06.5
50	3.1	05.1
40	4.5	03.7
30	5.8	02.4

N3030

608-21

2-7-33

ROG Notes
Clavert
Wade

(34)

E10427	6.3	02.9
20	15.5	92.7
15	17.7	90.5
10	16.0	92.2
X0400	13.0	96.2
390	13.0	95.2

End of work Feb. 7-33

N3040

10500	+1.9	10.1
490	+1.3	09.5
80	+0.2	08.4
70	1.0	07.2
60	2.4	05.8
50	3.9	04.3
40	4.8	03.4
30	5.8	02.4
22	6.7	01.5

111

N3050

E10500

N3050

602.05 BM

2-8-33

P.O.G Notes
Closed. π
Made R^g

(35)

583

613.88

E. 10500

4.8

09.1

Beginning of work Feb. 8. 33

490

5.7

08.2

80

6.8

07.1

70

7.8

06.1

60

9.1

04.8

50

10.0

03.9

40

10.8

03.1

30

11.7

02.2

N3060

10440

11.5

02.4

50

10.9

03.0

60

10.1

03.8

70

9.2

04.7

80

8.3

05.6

90

7.4

06.5

10500

6.4

07.5

N3070

10500

7.9

06.0

N3070

618.85

2-1-33

(36)

E10490		8.8	05.1
80		9.6	04.3
75		10.2	03.7

N3080

10500		9.1	04.8
-------	--	-----	------

10.79 618.84

608.05

8.69	627.35	0.18	618.66
------	--------	------	--------

N2890

E10500		10.5	17.0
490		10.3	17.0
80		10.2	17.1
70		10.1	17.2
60		9.9	17.4
50		10.0	17.3
40		10.2	17.1
30		8.8	18.5
20		8.1	19.2
10		7.6	19.7
10400		7.5	19.8

N 2890

627.35

2-P-33

37

E10390	7.3	20.0
80	7.9	20.0
70	7.5	19.8
60	7.6	19.7
50	8.1	19.2
40	10.6	16.7
30	10.9	16.4
20	10.4	17.0
10	10.2	17.1

N 2880

10310	10.5	16.8
20	10.6	16.7
30	7.2	20.1
40	6.9	20.4
50	6.6	20.7
60	6.0	21.3
70	5.2	22.1
80	5.4	22.0
90	5.8	21.5

N 2880

627.35

E 10400	5.9	21.4
10	5.8	21.5
20	6.2	21.1
30	7.0	20.3
40	7.3	20.0
50	8.6	18.7
60	9.2	18.1
70	9.9	17.4
80	10.1	17.2
90	10.3	17.0
10500	10.5	16.8

N 2870

10500	10.2	17.1
90	9.1	18.2
80	8.6	18.7
70	7.6	19.7
60	6.6	20.7
50	6.1	21.2
40	5.9	21.4

N2870

627.35

E10430	5.5	21.8
20	5.4	21.9
10	5.2	22.1
10400	4.5	23.8
390	4.0	23.3
80	4.1	23.2
70	3.7	23.6
60	4.5	22.8
50	4.9	22.4
40	5.1	22.2
30	5.9	21.4
20	6.4	20.4
10	7.1	20.2

N2860

10310	5.4	22.0
20	4.6	22.7
30	2.9	24.4
40	2.7	24.6
50	2.5	24.8

2.8.33

39

N2860

62735

E 10360	1.9	25.4
70	1.4	26.0
80	1.9	25.4
90	3.0	24.3
10400	3.2	24.1
10	2.9	24.4
20	3.3	24.0
30	4.1	23.2
40	5.0	22.3
50	5.6	21.7
60	6.2	21.1
70	6.7	20.6
80	7.2	20.1
90	7.5	19.8
10500	8.4	19.0

N2850

10500	8.1	19.2
490	7.5	19.8
80	7.1	20.2

2.8-33

(40)

N 2850

627.35

2.0.33

(H)

E 10.470	6.1	21.2
60	5.5	21.8
50	4.5	22.8
40	3.7	23.6
30	3.1	24.2
20	2.2	25.1
10	1.3	26.0
10400	0.1	27.2
390	0.0	27.3
80	0.6	26.7
70	0.7	26.6
60	0.3	27.0
50	0.3	27.0
40	0.2	27.1
30	0.4	27.0
20	2.4	25.0
103 10	4.0	23.3
11.30	638.07	0.63
		626.72

N2840

627.35[✓]

2-2-33

(92)

E.10500	8.1	19.2
490	7.0	20.3
80	6.4	21.0
70	5.6	21.7
60	4.5	22.8
50	3.5	23.8
40	2.5	24.8
30	1.4	26.0
20	0.4	27.0

638.02[✓]

10	10.5	27.5
10400	9.8	28.2
390	9.1	28.9
80	8.8	29.2
70	9.0	29.0
60	8.9	29.1
50	9.4	28.6
40	9.8	28.2
30	10.1	27.9

N2840

638.02

E10320 10.6 27.4

10 11.6 26.4

N2830

10310 10.0 28.0

20 9.1 28.9

30 8.5 29.5

40 7.7 30.3

50 7.4 30.6

60 7.1 30.9

70 7.1 30.9

80 7.3 30.7

90 7.8 30.2

10400 8.4 29.6

10 9.1 28.9

20 9.7 28.3

30 11.0 27.0

40 12.2 25.8

50 2.6 24.7

60 3.7 23.6

627.35

2-8-33

N2830

627.35

E10470	4.9	22.4
80	6.2	21.1
90	7.1	20.2
10500	7.8	19.5

N2820

10500	7.7	19.6
490	7.6	20.3
80	6.2	21.1
70	5.0	22.3
60	3.6	23.7
50	2.0	25.3
40	0.8	26.5

628.02

30	10.4	27.6
20	9.0	29.0
10	7.9	30.1
10400	7.0	31.0
390	6.2	31.8
80	5.7	32.3

28-33

(44)

N 2820

638.02^v

2-8-33

(45)

E10370	5.3	32.7
60	5.4	32.6
50	5.7	32.3
40	5.8	32.2
30	6.3	31.7
20	7.1	30.9
10	7.9	30.1

N 2810

10310	6.4	31.6
20	5.0	33.0
30	4.5	33.5
40	3.8	34.2
50	3.5	34.5
60	3.3	34.7
70	3.4	34.6
80	3.9	34.1
90	4.6	33.4
10400	5.5	32.4
410	6.8	31.2

N2810

638.02

2-8-33

(46)

E10420	7.9	30.1
30	9.4	28.6
40	10.9	27.1
50	12.1	25.9

627.35

60	2.8	24.5
70	4.4	23.0
80	5.7	21.6
90	6.7	20.6
10500	7.6	19.7

N2800

10500	7.5	19.8
490	6.5	20.8
80	5.7	21.6
70	4.6	22.7
60	1.8	25.5

638.02

50	11.3	26.7
40	10.0	28.0

N2800

(47)

628.02

2-8-33

E10430	8.1	29.9
20	6.8	31.2
10	5.8	32.2
10400	4.7	33.3
390	3.6	34.4
80	2.8	35.2
70	2.1	35.9
60	1.9	36.1
50	1.9	36.1
40	2.1	35.9
30	2.5	35.5
20	3.1	34.9
10	4.2	33.8

N2790

10310	2.0	36.0
20	1.2	36.8
30	0.8	37.2
40	0.4	37.6
50	0.2	37.8

N2790

(48)

638.02

2-8-73

E10360	0.3	37.7
70	0.8	37.2
80	1.5	36.5
90	2.3	35.7
10400	3.4	34.6
10	4.8	33.2
20	5.9	32.1
30	7.5	30.5
40	9.3	28.7
50	10.9	27.1

627.35

60	2.1	25.2
70	4.0	23.3
80	5.1	22.2
90	6.1	21.2
10500	7.4	20.0

N2780

10500	7.2	20.1
790	6.1	21.2

N 2780

(19)

627.35

2-8-33

E 10380

5.1

22.2

4.66

631.38

626.72

T.R. p.

to reach top of hill

11.94

643.16

0.16

631.22

631.38

10370

7.7

23.7

60

6.6

24.8

50

4.0

27.4

40

2.3

29.1

30

0.2

31.2

643.16

20

10.2

33.0

10

8.7

34.5

10400

7.2

36.0

390

6.2

37.0

80

5.6

37.6

70

4.9

38.3

60

4.0

39.2

50

3.5

39.7

40

3.7

39.5

30

4.0

39.2

N 2780

643.16

E10320 4.6 38.0

10 5.2 38.0

N 2770

10310 3.3 39.9

20 2.7 40.5

30 2.4 40.8

40 2.1 41.1

50 2.6 40.8

60 3.0 40.2

70 3.2 40.0

80 4.0 39.2

90 5.1 38.1

10400 6.6 36.6

10 8.1 35.1

20 9.5 33.7

30 7.3 35.9

40 1.6 29.8

50 4.2 27.2

60 5.6 25.8

631.38

2-8-33

⑩

N2770

631.38

2-2-33

57

E10470	7.3	24.1
80	9.0	22.4
90	10.1	21.3
10500	11.4	20.0

N2760

10500	11.1	20.3
490	10.2	21.2
80	8.7	22.7
70	7.2	24.2
60	5.4	26.0
50	3.2	28.2
40	2.3	29.1

643.16

30	11.2	32.0
20	9.2	34.0
10	7.5	35.7
10400	5.9	37.3
390	4.6	38.6
80	3.2	40.0

N2760

643.16

2-8-33

(52)

E10370	2.0	41.2
60	1.4	41.8
50	1.2	42.0
40	1.1	42.1
30	1.1	42.1
20	1.4	41.8
10	1.6	41.6

N2750

10310	0.5	42.7
20	0.2	43.0
30	0.0	43.2
40	0.1	43.1
50	0.2	43.0
60	0.6	42.6
70	1.5	41.7
80	2.4	40.8
90	4.3	38.9
10400	5.6	37.6
10	7.3	35.9

N2750

643.16[✓]

E10420 9.1 34.1

30 11.7 31.5

631.38[✓]

40 1.3 30.1

50 3.4 28.0

60 5.5 25.9

70 7.1 24.3

80 8.6 22.8

90 10.3 21.1

10500 11.0 20.4

N2740

10500 11.0 20.4

490 10.0 21.4

80 8.9 22.5

70 7.4 24.0

60 5.6 25.8

50 3.6 27.8

40 1.5 29.9

2-8-33

13

K2740

643.16

2-8-33

(4)

E 10430	11.0	32.2
20	9.9	33.3
10	7.4	35.8
10400	5.6	37.6
390	3.5	39.7
80	2.6	40.6
70	1.0	42.2
60	0.1	43.1
50	+0.4	43.6
40	+0.9	44.1
30	+0.6	43.8
20	+0.7	43.9
10	+0.8	44.0

New block

631.38

7.63 627.61 11.40 619.98

N2740

627.61

E10510	7.6	20.0
20	7.2	20.4
30	7.5	20.1
40	7.2	20.4
50	7.6	20.0
60	7.4	20.2
70	7.1	20.5
80	6.8	20.8
90	6.4	21.2
10600	6.2	21.4
10	5.7	21.9
20	5.1	22.5
30	4.7	22.9
40	4.1	23.5
50	3.6	24.0
60	3.2	24.4
70	2.5	25.1
80	2.1	25.5
90	1.5	26.1
10700	1.0	26.6

2-8-33

25

N2750

627.61 ✓

2-8-23

(12)

1 E10700	1.1	26.5
690	1.5	26.1
80	2.1	25.5
70	2.7	24.9
60	3.6	24.0
50	4.0	23.6
40	4.4	23.2
30	4.8	22.8
20	5.3	22.3
10	5.7	21.9
10 600	6.4	21.2
590	6.6	21.0
80	7.1	20.5
70	7.4	20.2
60	7.5	20.1
50	7.8	19.8
40	7.8	19.8
30	7.6	20.0
20	7.5	20.1
10	7.7	19.9

N2760
627.61

2-2-33

(57)

E10510	8.1	19.5
20	8.3	19.3
30	8.2	19.4
40	8.0	19.6
50	8.0	19.6
60	7.9	19.7
70	7.4	20.2
80	7.0	20.6
90	6.7	20.9
10600	6.6	21.0
10	6.1	21.5
20	5.7	21.9
30	5.2	22.4
40	4.7	22.9
50	4.0	23.6
60	3.5	24.1
70	3.0	24.6
80	2.5	25.1
90	1.9	25.7
10700	1.3	26.3

N2770

627.61

2-8-33

E10.700	1.3	26.3
690	2.0	25.6
80	2.6	25.0
70	3.3	24.3
60	3.9	23.7
50	4.2	23.4
40	4.6	23.0
30	5.3	22.3
20	5.8	21.8
10	6.4	21.2
10600	6.8	20.8
590	7.2	20.4
80	7.4	20.2
70	7.6	20.0
60	8.1	19.5
50	8.0	19.6
40	8.3	19.3
30	8.6	19.0
20	8.6	19.0
10	8.1	19.5

N2780

627.61

2-8-33

E10.510	7.9	19.7
20	8.6	19.0
30	8.7	18.9
40	8.7	18.9
50	8.5	19.1
60	8.3	19.3
70	8.0	19.6
80	7.4	20.2
90	7.4	20.2
10 600	7.1	20.5
10	6.6	21.0
20	5.6	22.0
30	5.3	22.3
40	5.0	22.6
50	4.5	23.1
60	3.9	23.7
70	3.3	24.3
80	2.6	25.0
90	2.0	25.6
10700	1.4	26.2

N2790

627.61

2-8-33

(60)

E10700	1.4	26.2
690	2.0	25.6
80	2.8	24.8
70	3.5	24.1
60	4.1	23.5
50	4.6	23.0
40	5.0	22.6
30	5.4	22.2
20	6.0	21.6
10	7.0	20.6
10600	7.3	20.3
590	7.8	19.8
80	7.8	19.8
70	8.7	18.9
60	8.4	19.2
50	8.2	18.8
40	8.9	18.7
30	8.7	18.9
20	8.5	19.1
10	8.1	19.5

N 2800

60

627.61

2-8-33

E10 510	8.2	19.4
20	8.5	19.1
30	8.9	18.7
40	9.0	18.6
50	9.0	18.6
60	8.7	18.9
70	8.7	18.9
80	8.0	19.6
90	7.9	19.7
10 600	7.2	20.4
10	7.0	20.6
20	6.4	21.2
30	5.7	21.9
40	5.2	22.4
50	4.7	22.9
60	4.1	23.5
70	3.4	24.2
80	2.6	25.0
90	2.3	25.3
10 700	1.8	25.2

N 2810

627.61

2-2-33

E10700	2.1	25.5
690	2.7	24.9
80	3.2	24.4
70	3.7	23.9
60	3.9	23.7
50	4.5	23.1
40	5.2	22.4
30	5.7	21.9
20	6.5	21.1
10	6.9	20.7
10600	7.5	20.1
590	8.0	19.6
80	8.5	19.1
70	8.4	19.2
60	8.8	18.8
50	9.1	18.5
40	9.2	18.4
30	9.2	18.4
20	8.9	18.7
10	8.5	19.1

N 2220

627.6^v

2-8-33

63

E 10510	8.4	19.2
20	8.9	18.7
30	9.1	18.5
40	9.3	18.3
50	9.1	18.5
60	9.0	18.6
70	8.7	18.9
80	8.6	19.0
90	8.1	19.5
10600	7.5	20.1
10	7.0	20.6
20	6.5	21.1
30	5.7	21.9
40	5.4	22.2
50	4.9	22.7
60	4.5	23.1
70	4.1	23.5
80	3.6	24.0
90	3.0	24.6
10700	2.7	25.4

N 2830

627.61 ✓

2-8-33

64

E10700	2.8	24.8
690	3.3	24.3
80	3.7	23.9
70	4.1	23.5
60	4.7	22.9
50	5.2	22.4
40	5.9	21.7
30	6.5	21.1
20	6.8	20.8
10	7.3	20.3
10600	7.6	20.0
90	8.1	19.5
80	8.4	19.2
70	8.6	19.0
60	9.1	18.5
50	9.2	18.6
40	9.5	18.1
30	9.3	18.3
20	9.0	18.6
10	8.6	19.0

N2840

62761

2-8-33

(65)

R10510	8.8	18.8
20	9.0	18.6
30	9.5	18.1
40	9.6	18.0
50	9.8	17.8
60	9.4	18.2
70	9.1	18.5
80	8.8	18.8
90	8.5	19.1
10600	8.3	19.3
10	7.9	19.7
20	7.5	20.1
30	6.8	20.8
40	6.1	21.5
50	5.4	22.2
60	4.9	22.7
70	4.3	23.3
80	3.9	23.7
90	3.5	24.1
10700	2.8	24.8

N2850
627.61

E10700	3.1	24.5
690	3.7	23.9
80	4.2	23.4
70	4.6	23.0
60	5.2	22.4
50	5.9	21.7
40	6.4	21.2
30	7.2	20.4
20	7.8	19.8
10	8.5	19.1
10600	8.8	18.8
590	8.8	18.8
80	9.3	18.6
70	9.6	18.0
60	9.9	17.7
50	11.7	15.9
40	9.7	17.9
30	9.3	18.6
20	9.3	18.6
10	9.1	18.5

2-8-33

66

K2860

627.6

E10510	9.3	18.3
20	10.4	16.2
30	10.0	17.6
40	10.9	16.7
50	12.0	15.6
60	12.3	15.3
70	10.3	17.3
80	9.8	17.8
90	9.4	18.2
10600	9.0	18.6
10	8.7	18.7
20	8.0	19.6
30	7.1	20.5
40	6.6	21.0
50	6.0	21.6
60	5.5	22.1
70	4.9	22.7
80	4.4	23.2
90	3.7	23.9
10700	3.3	24.3

2-8-33

 P.O.G. Notes
 Clavert $\frac{1}{2}$
 Wade RE

End of work Feb. 8-33

(27)

N2870

619.98

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P.O.G. Notes

Clavert T

Wade Rd.

(68)

E10510	4.32	624.30	7.3	17.0
20			7.3	17.0
30			7.2	17.1
40			7.6	16.7
50			7.6	16.7
60			7.9	16.4
70			7.4	16.9
80			7.0	17.3
90			6.4	17.9
10600			5.8	18.5
10			5.3	19.0
20			4.9	19.4
30			4.0	20.3
40			3.6	20.7
50			3.1	21.2
60			2.4	21.9
70			1.7	32.6
80			1.4	32.9
90			1.1	23.2
10700			0.5	23.8

Beginning of work Feb. 9-33

N2880

624-30

E10.700	0.7	23.6
690	1.2	23.1
80	1.7	22.6
70	2.3	22.0
60	2.7	21.6
50	3.0	21.3
40	3.7	20.6
30	4.3	20.0
20	5.0	19.3
10	5.4	18.9
10600	6.3	18.0
590	7.0	17.3
80	7.5	16.8
70	7.7	16.6
60	9.1	15.2
50	10.0	14.3
40	8.0	16.3
30	7.4	16.9
20	7.5	16.8
10510	7.4	16.9

2-9-33

(69)

N2890

624.30

2-9-33

70

E10700	0.9	23.4
690	1.1	23.2
80	2.0	22.3
70	2.7	21.6
60	3.0	21.3
50	3.6	20.7
40	4.2	20.1
30	4.5	19.8
20	4.8	19.5
10	6.1	18.2
10600	6.6	17.7
590	7.3	17.0
80	7.4	16.9
70	7.6	16.7
60	11.0	13.3
50	13.6	10.7
40	8.3	16.0
30	8.3	16.0
20	8.1	16.2
10510	7.8	16.5

N 2900

624.30¹

2-7-23

E10700	1.3	23.0
890	1.7	22.6
80	2.5	21.8
70	2.9	21.4
60	3.4	20.9
50	3.9	20.4
40	4.4	19.9
30	5.2	19.1
20	6.1	18.2
10	6.6	17.7
10600	6.9	17.4
590	7.1	17.2
80	7.6	16.7
70	8.4	15.9
60	12.0	12.3
50	13.9	10.4
40	9.8	14.5
30	9.5	14.8
20	9.3	15.0
10510	8.7	15.6

N2910

624.30

2-9-83

72

E10 700	1.6	22.7
690	2.1	22.2
80	2.7	21.6
70	3.1	21.2
60	3.9	20.4
50	4.3	20.0
40	4.8	19.5
30	5.3	19.0
20	6.6	17.7
10	6.8	17.5
10600	7.0	17.3
590	7.3	17.0
80	7.8	16.5
70	8.5	15.8
60	9.6	14.7
50	14.3	08.0
40	11.0	13.3
30	11.1	13.2
20	10.8	13.5
10510	9.8	14.5

N2920

624.30^v

2-9-33

(73)

E10700	1.9	22.4
690	2.5	21.8
80	2.8	21.5
70	3.3	21.0
60	4.0	20.3
50	4.6	19.7
40	5.3	19.0
30	6.1	18.2
20	7.0	17.3
10	7.1	17.2
10600	7.1	17.2
590	7.4	16.9
80	7.9	16.4
70	9.1	15.2
60	10.5	13.8
50	11.0	13.3
45	18.3	06.0
40	12.2	12.1
30	12.2	12.1
20	12.3	12.0
10510	11.2	13.1

N 2930

624.30

2-9-33

17

E10700	2.1	22.2
690	2.8	21.5
80	3.1	21.2
70	3.5	20.8
60	4.0	20.3
50	4.6	19.7
40	5.1	19.2
30	7.1	17.2
20	7.2	17.1
10	7.3	17.0
10600	7.7	16.6
590	8.3	16.0
80	8.4	15.9
70	9.7	14.6
60	11.1	13.2
50	12.0	12.3
40	19.1	05.2
30	13.9	10.4
20	13.9	10.4
10510	13.0	11.3

624.30 Level
 - 11.74
 612.56
 + 2.61
 615.17 Transit

N2940

624.30

2-9-33

76

E10700	2.6	21.7
690	2.9	21.4
80	3.3	21.0
70	3.8	20.5
60	4.1	20.2
50	4.6	19.7
40	6.6	17.7
30	6.9	17.4
20	6.9	17.4
10	7.7	16.6
10 600	8.2	16.1
590	8.6	15.7
80	9.1	15.2
70	9.8	14.5
60	11.0	13.3
50	12.2	12.1
40	6.1	09.1
30	9.6	05.6
999m 30	6.9	08.3
20	6.0	09.2
10510	4.8	10.4

615.17

N2950

76

624.30

2-9-33

E10700	3.1	21.2
670	3.2	21.1
80	3.7	20.6
70	4.0	20.3
60	4.6	19.7
50	5.3	19.0
40	6.3	18.0
30	6.5	17.8
20	6.8	17.5
10	7.5	16.8
10600	8.0	16.3
590	8.6	15.7
80	9.3	15.0
70	10.2	13.1
60	11.1	13.2
50	3.7	11.5
40	5.6	09.6
30	7.2	08.0
20	12.9	02.3
10510	6.2	09.0

615.17

N2960

624.30

E10700		3.5	20.8
690		3.6	20.7
80		4.0	20.3
70		4.5	19.8
60		4.8	19.5
50		6.4	17.9
40		6.2	18.1
30		6.2	18.1
20		6.9	17.4
10		7.2	17.1
10600		7.5	16.8
590		8.5	15.8
80		9.5	14.8
70		10.5	13.8
60		11.8	12.5
50	615.17	4.3	10.9
40		6.0	09.2
3		7.0	08.2
20		7.3	07.9
99am 20		13.3	01.9
10510		13.7	01.5

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77

N2970

624.30

E10700		4.3	20.0
690		4.4	19.9
80		4.5	19.8
70		4.8	19.5
60		6.7	17.6
50		6.3	18.0
40		6.0	18.3
30		6.6	17.7
20		7.3	17.0
10		7.1	17.2
10600		7.8	16.5
590		8.8	15.5
80		9.4	14.9
70		10.6	13.7
60		11.8	12.5
	615.17		
50		4.0	11.2
40		5.7	09.5
30		7.0	08.2
20		7.6	07.6
10510		15.0	00.2

29-83

17

N 2980

624.30[✓]

2-9-33

79

E10700	-7.7	16.6
690	5.2	19.1
80	5.0	19.3
70	7.1	17.2
60	6.7	17.6
50	6.6	17.7
40	6.3	18.0
30	7.1	17.2
20	7.1	17.2
10	7.4	16.9
10 600	7.7	16.6
590	8.5	15.8
80	9.1	15.2
70	10.0	14.3
60	11.0	13.3
50	3.2	12.0
40	4.7	10.5
30	6.1	09.1
20	7.3	07.9
10510	8.0	07.2

615.17[✓]

continued in Book 427 - P. 1-

43560
 1 myob = 27,000,000
 25 838 0
 664 60

620 acft

27,000,000
 7.5
 13.5
 16.2

1 m cbyd = 620 acft = 202,500,000 mgals

1.5 = 930 " = 303,625,000 " "

@ 10¢ p. 1000 g. = 30,362 p-year

200
 1129 930 - 0.83

780
 2080
 \$ 21,520

365
 10790
 13948
 6474

5% # 787670 p-year
 = 1,575,340 capital

27
 135
 40500000
 .002

\$ 81000,000
 at @ 20¢ p. 1000 cft

303,625,000
 .0001
 303,625,000

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.