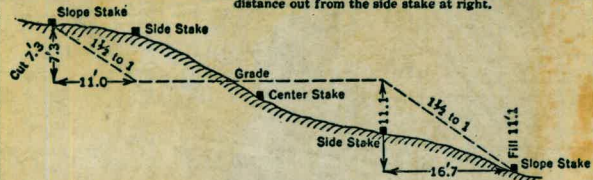


W

6/3

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake									Cut or Fill	
	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

KEUFFEL & ESSER CO., N. Y.

10,892-2. y. cc. ys. cM.

MICROFILMED

JAN 13 1965

The paper in this book No. F370A
 is made of 50% high grade rag stock
 with a WATER RESISTING surface sizing.

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Cross-Section for
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for Data on Fillet

Cross-Section of

East Slope for

27-61

(JANUARY)
Monthly Estimate

CROSS SECTION OF West

Slope for JAN. Monthly Est. 62-64

Cross-Section of

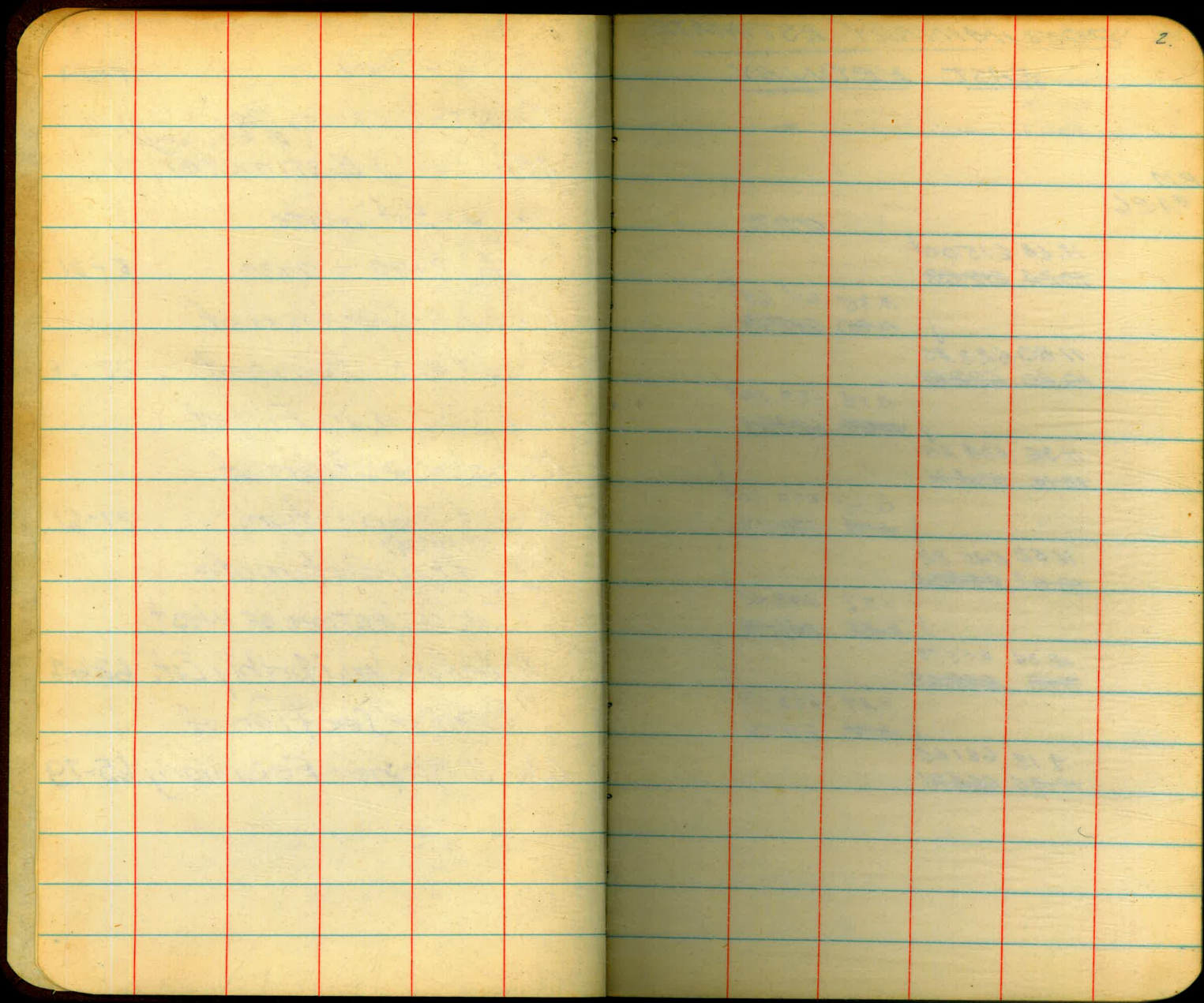
West Slope - February 65-79

MICROFILMED

JAN 14 1983

WITH WATER RESISTING INK

100-100-100



2.

PRELIMINARY ESTIMATE

EAST KEYWAY

12-23-41 5.

Feker
King
Cole

BM
#A-26

		Elev.
		602.32
12.68	615.00 ✓	
10.24	612.63	
	3.35	611.65 ✓
	0.90	611.73
11.80	623.45 ✓	
10.89	622.62	
	0.16	623.29 ✓
	0.67	621.95
11.36	634.65 ✓	
12.16	634.11	
	0.95	633.70 ✓
	0.74	633.37
11.52	645.22 ✓	
10.67	644.04	
	1.57	643.65 ✓
	2.46	641.58
12.34	655.99 ✓	
11.10	652.62	
	3.47	652.52 ✓
	0.72	651.96
9.13	661.65 ✓	
12.35	664.31	

(Cont.)

12.23.41

4

12+10

✓
66165

905 5.8 55.9 ✓

Top bank

12+20

905 0.3 61.4 ✓

Top of bank

12+10

1005 3.6 58.1 ✓

12+00

1005 7.5 54.2 ✓

Top bank

1105 4.3 57.4 ✓

1205 0.9 60.8 ✓

11+90

1105 7.9 53.8 ✓

Top of Bank

1205 6.0 55.7 ✓

11+80

1105 11.7 50.0 ✓

Top of Bank

1205 11.3 50.4 ✓

12-23-41

5

Ecker

Cde

King

(cont)

661.65

12.10 ✓

~~415~~ 649.55

TP

0.99

~~801~~

650.54 ✓

11+70

1105

4.9

45.6 ✓

Top of bank

1205

5.4

45.1 ✓

11+60

1205

10.7₃

39.8 ✓

11.3₄~~416~~ 639.21 ✓

TP

0.64

~~817~~

639.85 ✓

11+60

1105

1.8

38.1 ✓

1005

6.1

33.8 ✓

Top of bank

TP

11.31

628.54 ✓

4.86

633.40 ✓

(cont)

633.40 ✓

11+50

100S 5.6 27.8 ✓

90S 15.9 17.5 ✓

Top of bank

11+40

100S 12.1 21.3 ✓

11+30

100S 13.0 20.4 ✓

11+20

100S 13.7 19.7 ✓

11+10

100S U O 15.1 ~~18.3~~

TP 12.26 621.14 ✓

1.04 622.18 ✓

11+40

90S 8.0 14.2 ✓

Top of Bank

12-23-41

Eder

King

Cole

6.

(con't)

12-23-41

7

Cole
King
Eder

622.18 ✓

11+30

905 11.0 611.2 ✓

Top of Bank

11+20

905 11.8 10.4 ✓

Top of Bank

11+10

905 12.2 10.0 ✓

Top of bank

1005 3.6 18.6 ✓

11+00

905 13.3 08.9 ✓

Top of bank

1005 7.8 14.4 ✓

TP 12.73609.45 ✓

002 609.47 ✓

10+90

805 4.0 05.5 ✓

205 1.1 08.4 ✓

1005
105 0.2 09.3 ✓

1

12.24.41

8.

Ecker
Cole
King

(cont.)

60947

7.13 602.34 ✓

B.M. A 26 - 602.32

see
7.13 609.45 ✓

10+80

1005 3.2 06.3 ✓

905 3.4 06.1 ✓

805 5.7 03.8 ✓

Top of bank

10+70

1005 5.4 04.1 ✓

905 4.6 04.9 ✓

805 6.3 03.2 ✓

Top of bank

10+60

1005 12.7 596.8 ✓

905 9.0 00.5 ✓

805 9.4 00.1 ✓

705 12.5 97.0 ✓

Top of bank

(cont.)

609.45

TP

10.98 598.47 ✓

120 599.67 ✓

10+50

905

5.5 94.2 ✓

805

6.9 92.8 ✓

705

9.9 89.8 ✓

11.43 588.24 588.25 ✓

1.00 589.25 ✓

10+40

1005

11.9 77.4 ✓

905

9.7 79.6 ✓

TP

11.96 577.29 ✓

1.74 579.03 ✓

10+30

905

6.0 73.0 ✓

1005

9.0 70.0 ✓

12-24-41

9.

Elder
King
Cafe

top of bank

B.M. A-25

top of bank

(Cont.)

57903

10420

1005

15.5 63.5 ✓

TP

1.74 577.29 ✓

12.39 58968 ✓

1.41 588.27 588.25 BMA 225

12-24-41

10.

Cole
King
Ecker

12/29/41
Cool - Cloudy

Dickinson
Jackson
Palak
Loring
King
Cole

11.

Sta	+	H.I.	-	I.S	Elev
A-24					
B.M					552.12

12.27 564.39 ✓

10+30

80'S +0.1 564.5 ✓

70'S 1.7 562.7 ✓

60'S 2.0 562.4 ✓

50'S 5.4 559.0 ✓

40'S 5.7 558.7 ✓

30'S 8.5 555.9 ✓

20'S 11.6 552.8 ✓

10+20

30'S 10.5 553.9 ✓

40'S 11.8 552.6 ✓

50'S 8.8 555.6 ✓

60'S 10.1 554.3 ✓

12/29/41
Cool-Cloudy

12.

Sta + HI - 1.5 Elev

564.39 ✓

10+20

70'S 99 554.5 ✓

80'S 11.1 553.3 ✓

90'S 7.7 556.7 ✓

T.P. 12.81 551.58 ✓

1.25 552.83 ✓

10+30

10 S 3.1 549.7 ✓

Axis 9.0 543.8 ✓

10 N 10.2 542.6 ✓

20 N 8.3 544.5 ✓

10+20

20 N 11.2 541.6 ✓

10 N 13.2 539.6 ✓

12/29/41
Cool-Cloudy

Dickinson
Jackson
Palak
Loing
King
Cote

13.

✓
552.83

10720

Axis 9.5 543.3 ✓

10S 6.4 546.4 ✓

20S 3.0 549.8 ✓

T.P. 7.61

545.22 (See L.B #616 Page 25)
Check on old T.P. Elev = 545.22

Cross-Section for Monthly

12/30/41
Cool-Cloudy

Dickinson
Jackson
Polak
Loing
King
Cote

14.

Estimate - F-Keyway

Sta + H.L. - I.S. Elev

A-24

BM

552.12

0.50 552.62 ✓

10+10

110'S

1.2 551.4 ✓

100'S

2.8 549.8 ✓

90'S

4.5 548.1 ✓

80'S

10.3 542.3 ✓

70'S

10.9 541.7 ✓

60'S

8.5 544.1 ✓

50'S

7.4 545.2 ✓

40'S

12.9 539.7 ✓

30'N.

11.0 541.6 ✓

40'N.

9.4 543.2 ✓

10+00

90'S

12.3 540.3 ✓

12/30/41

15

Sta + H.I. - I.S. Elev Cool-Cloudy

55262

10+00

100'S

8.5 544.1[✓]

110'S

9.0 543.6[✓]

T.P.

11.83

540.79[✓]026 541.05[✓]

10+00

80'S

5.1 535.9[✓]535.4[✓]

70'S

5.6 ~~534.2~~

60'S

7.7 533.3[✓]

50'S

5.5 535.5[✓]

40'S

7.7 533.3[✓]

30'S

7.0 534.0[✓]

20'S

5.3 535.7[✓]

10'S

9.6 531.4[✓]

10+10

10'S

0.6 540.4[✓]

12/30/41

16.

Sta + H.I. - I.S. Elev Cool-Cloudy

541.05 ✓

10+10

30'S +20 543.0 ✓

20'S +38 544.8 ✓

Axis 6.3 534.7 ✓

10'N. 8.3 532.7 ✓

20'N. 7.4 533.6 ✓

10+00

40'N. ~~10.0~~ 1.0 540.0 ✓30'N. ~~9.7~~ 1.7 539.3 ✓

20'N. 13.2 527.8 ✓

10'N. 12.9 528.1 ✓

Axis 11.2 529.8 ✓

10'S 9.6 531.4 ✓

9+90

50'N. 0.4 540.6 ✓

40'N. 4.1 536.9 ✓

12/30/40

17.

Cool - Cloudy

Sta + H.I. - I.S. Elev.

541.05 ✓

9+90

30'N

9.8 531.2 ✓

9+80

40'N

8.3 532.7 ✓

120'S

9.5 531.5 ✓

9+90

120'S

1.9 539.1 ✓

110'S

3.3 537.7 ✓

100'S

10.6 530.4 ✓

90'S

12.8 528.2 ✓

80'S

12.2 528.8 ✓

70'S

13.0 528.0 ✓

T.P.

12.41 ✓

528.64 ✓

0.72 529.36 ✓

12/30/41

18.

Cool-Cloudy

Sta	+	H.I.	-	I.S.	Elev
		52936	✓		
		9+90			
60'S				3.1	526.3 ✓
50'S				4.0	525.4 ✓
40'S				5.1	524.3 ✓
30'S				4.5	524.9 ✓
20'S				3.8	525.6 ✓
10'S				2.5	526.9 ✓
AxN				4.2	525.2 ✓
10'N				5.5	523.9 ✓
20'N				6.0	523.4 ✓
		9+80			
30'N				1.7	527.7 ✓
20'N				9.2	520.2 ✓
10'N				9.3	520.1 ✓
AxN				8.2	521.2 ✓
10'S				9.6	519.8 ✓

12/30/41

19.

Sta + H.I. - I.S. Elev Cool-Cloudy

529.36 ✓

9+80

20'S

99

519.5 ✓

30'S

10.7

518.7 ✓

40'S

10.0

519.4 ✓

50'S

8.7

520.7 ✓

60'S

9.8

519.6 ✓

70'S

6.8

522.6 ✓

80'S

6.6

522.8 ✓

90'S

8.3

521.1 ✓

100'S

6.5

522.9 ✓

9+70

120'S

5.8

523.6 ✓

110'S

7.7

521.7 ✓

100'S

12.1

517.3 ✓

90'S

13.3

516.1 ✓

12/30/41

20.

Cool-Cloudy

Sta + H.I. - I.S. Elev.

529.36 ✓

9+70

40'N 5.3 524.1 ✓

30'N 5.6 523.8 ✓

T.P. 12.60 516.76 ✓

220 518.96 ✓

9+70

80'S 3.6 515.4 ✓

70'S 2.2 516.8 ✓

60'S 1.3 517.7 ✓

50'S 2.3 516.7 ✓

40'S 3.7 515.3 ✓
516.3 ✓

30'S 4.1 514.9 ✓

20'S 4.4 514.6 ✓

10'S 2.6 516.4 ✓

Axis 3.8 515.2 ✓

10'N 4.0 515.0 ✓

20'N 2.9 516.1 ✓

Cross-Section for Monthly

12/30/41
Cool - Rain

Dickinson
Jackson
Polak
King
Cole
Laing

21

Estimate - E Keyway

Sta	+	H.I.	-	I.S.	Elev
		518.96	✓		
T.P.			0.73		518.23 ✓
A-23	11.74	529.97	✓		
B.M.			6.09		523.88 ✓
					523.86

518.96

T.P.

0.73

518.23

11.74 529.97

A-23

B.M.

6.09

523.88 523.86

Cross Section of Keyway -
East Abutement

1/14/42
Fair - Warm

Dickinson
Jackson
Polak
Loring
King
Cote

22


Note: These cross sections taken
for data on fillet

Sta	+	H.I.	-	I.S.	Elev	
T.B.M.					544.42	
	4.44	548.86				
10+25				3.1	545.8	40' N. of Axis
10+25				4.6	544.3	25' " " "
10+25				11.7	537.2	15' " " "
10+25				10.5	538.4	Axis
10+25				1.0	547.9	11' South of Axis
T.P.		0.34			548.52	
	12.88	561.40				
10+25				8.6	552.8	21' " " "
10+25				6.3	555.1	30' " " "
10+25				3.1	558.3	36' " " "
10+25				1.9	559.5	49' " " "
10+25				5.4	556.0	72' " " " South Bottom line
T.P.		12.73			548.67	

Note - These cross sections taken
for data on fillet

1/14/42
Fair - Warm

23.

Sta	+ H.I.	- I.S.	Elev	
T.P.			548.67	T.B.M.
	3.23	551.90		
10+00		12.3	539.6	32' North of Axis - Top of bank
10+00		12.0	539.9	40' " " " "
T.B.M.	7.48		544.42	
				
T.B.M.			529.03	
	7.45	536.48		
10+00		11.9	524.6	16' N. of Axis
10+00		6.6	529.9	Axis
10+00		0.2	536.3	19' South of Axis
10+00		1.4	535.1	47' " " " "
10+00		2.3	534.2	69' " " " "
10+00		4.2	532.3	80' " " " "
10+00		3.2	533.3	88' " " " " S. Batter Line
T.B.M.	7.45		529.03	

Note: These cross sections
taken for data on fillet

11/14/42
Fair-Worm

24.

Sta.	+ H.I.	-	1.5 Elev	
T.B.M.			548.67	
	804.556.71			
10+50		7.6	549.1 ✓	30' North of Axis
10+50		8.3	548.4 ✓	20' " " "
10+50		13.1	543.6 ✓	12' " " "
10+50		13.2	543.5 ✓	Axis
10+50		2.6	554.1 ✓	10' South " "
10+75		0.1	556.6 ✓	14' " " " ✓
10+75		10.0	546.7 ✓	Axis ↓
10+75		10.7	546.0 ✓	11' North " "
10+75		5.3	551.4 ✓	15' " " " "
10+75		3.4	553.3 ✓	27' " " " " ✓
11+00		+2.2	558.9 ✓	22' " " " "
11+00		0.8	555.9 ✓	15' " " " "
11+00		6.3	550.4 ✓	11' " " " "
11+00		6.2	550.5 ✓	Axis
11+00		0.8	555.9 ✓	12' South " "

Note - These cross sections
taken for data on fillet

1/14/42
Fair - Warm

25

Sta + H.I. - I.S Elev.

556.71

T.P. 0.52 556.19

12.07 568.26

11+00 44 563.9 24' South of Axis

10+75 5.4 562.9 21' " " "

10+50 5.6 562.7 26' " " "

T.P. 0.47 567.79

12.13 579.92

11+00 8.4 571.5 39' " " "

11+00 4.4 575.5 57' " " " S Batter Line

10+75 3.3 576.6 59' " " " " "

10+75 5.0 574.9 49' " " "

10+75 9.5 570.4 35' " " "

10+50 7.4 572.5 63' " " " " "

10+50 13.0 566.9 48' " " "

10+50 10.6 569.3 41' " " "

11/26/42
Fair-Warm

Dickinson 27.
Jackson
Potak
Laing
King
Cote

Cross-Section on East slope
for Monthly Estimate

Sta.	+ H.I.	- I.S.	Elev.				
A-24 B.M.			552.12				
	4.99	557.11					
10+00		11.3	545.8	120'	South of Axis		
10+00		13.1	544.9	110'	"	"	"
T.P.		12.74	544.37				
	1.04	545.41					
10+00		5.2	540.2	100'	"	"	"
10+00		6.3	539.1	90'	"	"	"
9+90		8.8	536.6	110'	"	"	"
9+90		5.5	539.9	120'	"	"	"
10+00		13.2	532.2	80'	"	"	"
10+00		12.6	532.8	70'	"	"	"
10+00		10.7	534.7	60'	"	"	"
10+00		9.8	535.6	50'	"	"	"
10+00		11.8	533.6	40'	"	"	"

1/26/42

Jackson
Polak
Loing

28.

Cross-Section on East Slope
for Monthly Estimate

Fair - Warm

Sta. + H.I. - I.S. Elev

545.41

10+00 11.6 533.8 ✓

30' South of Axis

10+00 9.6 535.8 ✓

20' " " "

10+00 5.4 540.0 ✓

40' North " "

10+00 3.5 541.9 ✓

50' " " "

10+00 8.0 537.4 ✓

30' " " "

9+90 4.9 540.5 ✓

50' " " "

9+90 8.6 536.8 ✓

40' " " "

9+80 9.9 535.5 ✓

50' " " "

9+80 12.9 532.5 ✓

40' " " "

T.P. 1266 532.75 ✓

1.21 533.96 ✓

10+00 2.2 531.8 ✓

10' South " "

10+00 4.6 529.4 ✓

AXIS

10+00 9.3 524.7 ✓

10' North " "

10+00 4.9 529.1 ✓

20' " " "

Cross-Section on East Slope

1/26/42
Fair - Warm

Jackson
Polak
Laing

27

for Monthly Estimate

Sta	+	H.I.	-	I.S. Elev				
		533.96						
9+90			2.5	531.5 ✓	30'	North	of	Axis
9+90			12.0	522.0 ✓	20'	"	"	"
9+90			13.0	521.0 ✓		Axis		
9+90			13.2	520.8 ✓	10'	South	"	"
9+90			9.7	524.3 ✓	20'	"	"	"
9+90			9.0	525.0 ✓	30'	"	"	"
9+90			10.4	523.6 ✓	40'	"	"	"
9+90			9.7	524.3 ✓	50'	"	"	"
9+90			7.6	526.4 ✓	60'	"	"	"
9+90			6.2	527.8 ✓	70'	"	"	"
9+90			5.4	528.6 ✓	80'	"	"	"
9+90			8.2	525.8 ✓	90'	"	"	"
9+90			5.4	528.6 ✓	100'	"	"	"
9+80			2.6	531.4 ✓	130'	"	"	"

Plotted
Checked
APR
D.W.L.

Cross-Section on East Slope
for Monthly Estimate

1/26/42
Fair-Worm

Jackson
Polak
Lairg

30.

Sta.	+	H.I.	-	I.S.	Elev.				
		533.96							
9+80				2.8	531.2 ✓	120'	South	of	Axis
9+80				10.7	523.3 ✓	110'	"	"	"
9+80				12.9	521.1 ✓	100'	"	"	"
9+80				10.8	523.2 ✓	80'	"	"	"
9+80				11.5	522.5 ✓	70'	"	"	"
9+80				6.3	527.7 ✓	30'	North	"	"
9+70				10.2	523.8 ✓	40'	"	"	"
9+70				10.4	523.6 ✓	50'	"	"	"
9+70				10.0	524.0 ✓	30'	"	"	"
T.P.			1309		520.87 ✓				
	0.45	521.32 ✓							
9+80				1.7	519.6 ✓	90'	South	"	"
9+80				1.1	520.2 ✓	60'	"	"	"
9+80				0.7	520.6 ✓	50'	"	"	"

Cross-Section on East Slope
for Monthly Estimate

1/26/42

Fair-Warm

Jackson
Dolok
Lainy

31.

Sta. + H.I. - I.S. Elev.

521.32

9+80		24	518.9 [✓]	40' South of Axis
9+80		25	518.8 [✓]	30' " " "
9+80		32	518.1 [✓]	20' " " "
9+80		60	515.3 [✓]	10' " " "
9+80		51	516.2 [✓]	Axis
9+80		8.5	512.8 [✓]	10' North " "
9+80		48	516.5 [✓]	20' " " "
9+90		54	515.9 [✓]	10' " " "
9+70		7.5	513.8 [✓]	20' " " "
9+70		12.0	509.3 [✓]	10' " " "
9+70		10.5	510.8 [✓]	Axis
9+70		9.5	511.8 [✓]	10' South " "
9+70		7.9	513.4 [✓]	20' " " "
9+70		7.5	513.8 [✓]	30' " " "

Cross-Section on East Slope
for Monthly Estimate

1/26/42
Fair-Worm

Jackson
Polak
Lairg

32.

Sta + H.I. - I.S. Elev

521.32

9+70		6.2	515.1 ✓	40'	South of Axis
9+70		7.7	513.6 ✓	50'	" " "
9+70		7.5	513.8 ✓	60'	" " "
9+70		6.3	515.0 ✓	70'	" " "
9+70		8.0	513.3 ✓	80'	" " "
9+70		7.6	513.7 ✓	90'	" " "
9+70		6.3	515.0 ✓	100'	" " "
9+70		5.8	515.5 ✓	110'	" " "
9+70		4.9	516.4 ✓	120'	" " "
9+70		+0.2	521.5 ✓	130'	" " "
9+70		+0.5	521.8 ✓	140'	" " "
9+70		+1.7	523.0 ✓	150'	" " "
9+70		0.7	520.6 ✓	160'	" " "
9+60		9.3	512.0 ✓	160'	" " "
9+60		10.7	510.6 ✓	150'	" " "

Cross-Section on East Slope
for Monthly Estimate

1/26/42

Fair - Warm

Jackson
Polak
Laing

52

Sta + H.I. - I.S. Elev.

521.32

9+60 11.1 510.2 ✓ 140' South of Axis

9+60 11.3 510.0 ✓ 130' " " "

9+60 12.6 508.7 ✓ 120' " " "

T.B.M. 981 511.51 ✓ El. of T.B.M. = 511.52

6.49 518.00 ✓

9+60 2.0 516.0 ✓ 40' North of Axis

9+60 4.2 513.8 ✓ 30' " " "

9+60 9.0 509.0 ✓ 20' " " "

9+60 11.5 506.5 ✓ Axis

9+60 8.8 509.2 ✓ 10' South " "

9+60 8.9 509.1 ✓ 20' " " "

9+60 9.2 508.8 ✓ 30' " " "

9+60 6.8 511.2 ✓ 40' " " "

9+60 9.9 508.1 ✓ 50' " " "

Cross-Section on East Slope
for Monthly Estimate

1/26/42
Fair-Warm

Jackson
Polak
Laing

38

Sta. + H.I. - I.S. Elev.

51800

9 9+60 13.2 5048 ✓

60' South of Axis

9 9+60 12.5 505.5 ✓

70' " " "

9 9+60 10.7 507.3 ✓

80' " " "

7 9+60 11.3 506.7 ✓

90' " " "

9+60 11.6 506.4 ✓

100' " " "

9 9+60 10.4 507.6 ✓

110' " " "

9 9+50 13.0 505.0 ✓

170' " " "

9 9+50 7.1 510.9 ✓

50' North " "

9 9+50 7.8 510.2 ✓

40' " " "

9 9+50 10.8 507.2 ✓

30' " " "

9 T.P. 12.65 505.3 ✓

9 1.49 5068^A ✓

9 9+50 5.4 501.4 ✓

20' " " "

9 9+50 11.5 495.3 ✓

10' " " "

9+50 6.5 500.3 ✓

Axis

Cross-Section on East Slope
for Monthly Estimate

1/26/42
Fair-Warm

Jackson
Polak
Laing

34

Sta.	+ H.I.	- I.S.	Elev.	
	506.8 ⁴			
9+50		1.8	505.0	10' South of Axis
9+50		1.7	505.1	20' " " "
9+50		2.8	504.0	30' " " "
7+9+50		4.3	502.5	40' " " "
9+50		7.2	499.6	50' " " "
9+50		6.8	500.0	60' " " "
9+50		7.1	499.7	70' " " "
9+50		6.3	500.5	80' " " "
9+50		6.4	500.4	90' " " "
9+50		7.8	499.8 ⁰	100' " " "
9+50		7.4	499.4	110' " " "
9+50		9.6	497.2	120' " " "
9+50		8.0	498.8	130' " " "
9+50		9.4	497.4	140' " " "
9+50		8.7	498.1	150' " " "

1/26/42

Jackson
Polak
Laird

35

Cross-Section on East Slope
for Monthly Estimate

Fair-Warm

Sta. + H.I. - 15. Elev

4
5068.4

9+50

3.9 502.9

160' South of Axis

9+60

3.1 503.7

10' North " "

S.T.B.M.

866

498.19

El of T.B.M. = 498.19

T

11.33 509.52

9+40

9 40' N.

1.3 508.2

9 30' N.

10.5 499.0

9 210'S

12.5 497.0

9 T.P.

1261

496.90

9

0.86 497.77

9

9+40

9 200'S

5.8 492.0

9 190'S

7.3 490.5

9 180'S

11.2 486.6

Cross-Section of East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Loing
King
Cole

36.

Sta	+ H.I.	- I.S.	Elev
	497.77		
	9+40		
170'S		11.9	485.9 ✓
160'S		11.5	486.3 ✓
150'S		14.2	483.6 ✓
140'S		15.9	481.9 ✓
130'S		15.2	482.6 ✓
120'S		11.1	486.7 ✓
110'S		8.8	489.0 ✓
100'S		8.5	489.3 ✓
90'S		6.7	491.1 ✓
80'S		6.5	491.3 ✓
70'S		5.5	492.3 ✓
60'S		5.7	492.1 ✓
50'S		5.9	491.9 ✓

Cross-Section of East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Loing
King
Cole

37.

Sta.	+	Hl.	-	IS.	Elev.
		497.77			
		9+40			
40'S				4.7	493.1 ✓
30'S				2.7	495.1 ✓
20'S				3.1	494.7 ✓
10'S				3.8	494.0 ✓
Axis				6.4	491.4 ✓
10'N				7.5	49 ⁰ 3.3 ✓
20'N				4.1	493.7 ✓
T.P.			1310		484.67 ✓
	0.87	485.54	ARKL		
		484.54			
		8+935			
20'N				9.4	475.1 ⁶ ✓
10'N				10.3	474.2 ⁵ ✓
Axis				11.2	473.3 ⁴ ✓
10'S				11.2	473.3 ⁴ ✓

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Laing
King
Cole 38.

Sta.	+	H.I.	-	IS.	Elev.
		485.54 484.54			
		8+935			
20'S				9.5	475.0 ⁶ ✓
30'S				8.8	475.7 ⁶ ✓
40'S				8.9	475.6 ⁶ ✓
50'S				9.8	474.7 ⁵ ✓
60'S				11.0	473.5 ⁴ ✓
70'S				11.9	472.6 ³ ✓
80'S				13.3	471.2 ² ✓
170'S				11.7	472.8 ³ ✓
180'S				10.9	473.6 ⁴ ✓
190'S				10.3	474.2 ⁵ ✓
200'S				9.9	474.6 ⁵ ✓
		8+835			
200'S				11.1	473.4 ⁴ ✓

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Laing
King
Cole

39.

Sta. + H.I. - IS. Elev.

⁵
~~487.54~~

8+835

190'S

11.7 47³7.8 ✓

180'S

12.6 47²7.9 ✓

T.P.

12.76 47²7.78 ✓

2.42 ⁵47⁵7.20 ✓

8+935

160'S

4.4 46⁷⁰9.8 ✓

150'S

5.7 46⁹8.5 ✓

140'S

5.7 46⁹8.5 ✓

130'S

4.2 47¹9.0 ✓

120'S

4.3 46⁷⁰9.9 ✓

110'S

4.1 47¹9.1 ✓

100'S

5.2 46⁷⁰9.0 ✓

90'S

4.3 46⁷⁰9.9 ✓

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool - Cloudy

Dickinson
Jackson
Palak
Lairg
King
Cole

40

Sta + H.I. - I.S. Elev

⁵
474.20

8+835

170'S 3.6 470¹.6 ✓

160'S 9.5 464⁵.7 ✓

150'S 10.4 463⁴.8 ✓

140'S 10.0 464⁵.2 ✓

130'S 8.5 466⁷.7 ✓

120'S 5.8 468⁹.4 ✓

110'S 6.1 468⁹.1 ✓

90'S 7.3 466⁷.9 ✓

80'S 8.2 466⁷.0 ✓

70'S 7.6 466⁷.6 ✓

60'S 6.2 468⁹.0 ✓

50'S 4.2 470¹.0 ✓

40'S 5.0 469⁷⁰.2 ✓

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Laing
King
Cote

Sta + H.I. - I.S. Elev.

⁵
47420

8+835

30'S

2.1 472³1

20'S

1.3 472³9

10'S

1.7 472³5

Ax N

3.4 470¹8

10'N

2.2 472³0

20'N

0.3 473⁴9

8+635

30'N

2.1 472³1

20'N

2.7 477²5

10'N

10.2 464⁵0

Ax N

11.9 462³3

10'S

12.4 467²8

20'S

11.8 462³4

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson 42
Polak
Laird
King
Cote

Sta. + H.I. = I.S. Elev.

⁵
47420

8+635

30'S 11.9 463.3

40'S 12.0 463.2

110'S 11.8 463.4

170'S 11.5 463.7

180'S 7.4 467.8

190'S 3.4 471.8

200'S 2.8 472.4

8+735

200'S 2.5 472.7

190'S 2.8 472.4

180'S 3.4 471.8

170'S 5.9 469.3

160'S 12.6 462.6

Cross-Section on East Slope
for Monthly Estimate.

1/27/42
Cool-Cloudy

Dickinson 43.
Jackson
Polak
Laing
King
Cole

Sta + H.I. - IS Elev

⁵
474.20

8+735

150'S 134 46¹8

140'S 138 46¹4

130'S 12.7 46²5

120'S 9.3 46⁵9

110'S 7.0 46⁸2

100'S 8.3 46⁶9

90'S 10.7 46⁴5

80'S 11.5 46³7

70'S 11.5 46⁶7

60'S 11.6 46³6

50'S 11.9 46³3

40'S 7.2 46⁸0

30'S 5.9 46⁹3

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Laing
King
Cote

44

Sta + HI. - IS Elev

⁵
47420

8+735

20'S		7.0	⁸ 467.2
10'S		8.7	⁶ 465.5
Axis		9.9	⁵ 464.3
10'N		6.3	⁸ 467.9
20'N		1.5	³ 472.7
30'N		0.0	⁵ 474.2
	8+535		
40'N		0.0	⁵ 474.2
30'N		1.8	³ 472.4
20'N		4.3	⁷⁰ 469.9
10'N		10.2	⁵ 467.0
Axis		11.9	³ 462.3
10'S		12.6	² 461.6

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Palak
Lairng
King
Cole

45

Sta + H.I. - IS Elev

⁵
474.20

8+535

20'S

13.1 467²1

30'S

13.1 467²1

180'S

10.5 463⁴7

190'S

4.9 469⁷⁰3

200'S

4.0 478¹2

8+47

200'S

4.7 469⁷⁰3

190'S

5.9 468⁹3

180'S

11.3 463³0

30'N

2.9 477²3

20'N

4.7 469⁷⁰3

T.P.

11.43

467³77

²
911 474.88

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Palak
Loing
King
Cole

26.

Sta + H.L. - IS Elev

47+88

8+635

50'S		11.5	460.4
60'S		11.9	460.0
70'S		11.6	460.3
80'S		12.3	459.6
90'S		12.5	459.4
100'S		11.6	460.3
120'S		11.4	460.5
130'S		12.0	459.9
140'S		12.4	459.5
150'S		12.6	459.3
160'S		11.9	460.0
	8+535		
170'S		11.7	460.2

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson 47.
Potak
Laing
King
Cole

Sta. + H1 - IS Elev

²
47+88

8+535

160'S 12.1 60 ✓
459.8

150'S 12.2 60 ✓
459.7

140'S 12.4 60 ✓
459.5

130'S 12.0 60 ✓
459.9

120'S 12.0 60 ✓
459.9

110'S 12.7 60 ✓
459.2

100'S 12.9 60 ✓
459.0

90'S 12.8 60 ✓
459.1

80'S 12.4 60 ✓
459.5

70'S 11.4 60 ✓
460.5

60'S 11.5 60 ✓
460.4

50'S 12.0 60 ✓
459.9

40'S 11.6 60 ✓
460.3

30'S 10.7 60 ✓
467.2

Cross-Section on East Slope
for Monthly Estimate

Sta	+	Hl.	-	IS	Elev
		² 477.88			
		8+47			
20'N					
10'N			8.2	⁴ 468.7	
Axis			10.2	² 467.7	
10'S			10.4	² 467.5	
20'S			10.8	² 467.1	
30'S			11.0	¹ 466.9	
40'S			11.7	¹ 466.2	
50'S			12.7	⁶⁰ 459.2	
60'S			12.4	⁶⁰ 459.5	
70'S			11.4	¹ 466.5	
80'S			12.5	⁶⁰ 459.5	
90'S			13.0	⁵⁹ 458.9	
100'S			13.0	⁰ 458.9	

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Laing
King
Cole

48

CROSS SECTION ON EAST SLOPE
for Monthly Estimate

1/27/42
Cool-Cloudy

19

Sta	+	H.I.	-	I.S.	Elev
		47 ² 88			
		8+47			
110'S				12.9	459 ⁶⁰ 0
120'S				11.6	460 ¹ 3
130'S				11.7	460 ¹ 2
140'S				12.5	459 ⁶⁰ 4
150'S				12.7	459 ⁶⁰ 2
160'S				12.3	459 ⁶⁰ 1
170'S				11.8	460 ⁶¹ 1
		8+37			
200'S				4.1	467 ⁸ 3
190'S				7.2	464 ⁵ 7
180'S				10.5	467 ² 4
170'S				11.9	468 ¹ 0
160'S				12.5	459 ⁶⁰ 4

CROSS SECTION ON EAST SLOPE

1/27/42
Cool-Cloudy

50.

FOR MONTHLY ESTIMATE

Sta.	+	H.I.	-	I.S.	Elev.
		² 47488			
		8+37			
150'S.				12.8	⁶⁰ 4591
140'S.				12.6	⁶⁰ 4593
130'S.				12.1	⁶⁰ 4598
120'S.				12.0	⁶⁰ 4599
110'S.				12.7	⁶⁰ 4592
100'S.				12.9	⁶⁰ 4590
90'S.				12.8	⁶⁰ 4591
80'S.				11.5	¹ 4604
70'S.				11.0	¹ 4609
60'S.				12.4	⁶⁰ 4595
50'S.				12.2	⁶⁰ 4597
40'S.				11.0	⁶¹ 4609
30'S.				10.7	² 4612

CROSS SECTION ON EAST SLOPE

1/27/42
Cool-Cloudy

51.

FOR MONTHLY ESTIMATE

Sta	+	HI	-	IS	Elev
		² 477.88			
		8+37			
20'S				10.4	467.5 ²
10'S				10.4	467.5 ²
AxU				10.3	467.6 ²
10'N				8.0	469.9 ⁴
20'N				3.2	468.7 ⁹
30'N				1.7	470.2 ¹
		8+27			
30'N				1.8	470.1 ¹
20'N				2.9	469.0 ⁷⁰
10'N				7.9	464.0 ⁵
AxU				9.7	462.2 ³
10'S				9.7	462.2 ³
20'S				9.9	462.0 ³

CROSS SECTION ON EAST SLOPE

1/27/42
Cool-Cloudy

52.

FOR MONTHLY ESTIMATE

Sta	+ H.I.	- I.S.	Elev
	² 47+88		
	8+27		
30'S		10.2	² 461.7
40'S		10.9	² 461.0
50'S		11.5	¹ 460.4
60'S		12.0	⁶⁰ 459.9
70'S		12.2	⁶⁰ 459.7
80'S		12.1	⁶⁰ 459.8
90'S		12.3	⁶⁰ 459.6
100'S		13.0	⁵⁹ 458.9
110'S		13.1	⁹ 458.8
120'S		12.5	⁶⁰ 459.4
130'S		12.6	⁶⁰ 459.3
140'S		12.4	⁶⁰ 459.5
150'S		12.5	⁶⁰ 459.4

CROSS SECTION ON EAST SLOPE
FOR MONTHLY ESTIMATE

11/27/42
Cool - Cloudy

Sta	+	H.I.	-	I.S.	Elev.
		² 474.88			
		8+27			
160'S				12.3	⁶⁰ 459.6
170'S				11.5	¹ 460.4
180'S				9.4	³ 462.5
190'S				7.1	³ 464.8
200'S				4.4	⁸ 467.5
		8+17			
200'S				4.0	³ 467.9
190'S				6.0	⁶ 465.9
180'S				8.3	⁴ 463.6
170'S				10.0	² 467.9
160'S				11.0	¹ 468.9
150'S				11.9	¹ 468.0
140'S				12.7	⁶⁰ 459.2

CROSS SECTION ON EAST SLOPE

11/27/42
Cool-Cloudy

54

FOR Monthly ESTIMATE

Sta + H.I. - IS. Elev.

²
477.88

8+17

130'S		12.6	⁶⁰ 459.3
120'S		12.7	⁶⁰ 459.2
110'S		13.1	⁰ 458.8
100'S		13.2	⁹ 458.7
90'S		12.7	⁶⁰ 459.2
80'S		12.8	⁶⁰ 459.1
70'S		12.6	⁶⁰ 459.3
60'S		12.1	⁶⁰ 459.8
50'S		11.2	¹ 460.7
40'S		10.5	² 461.4
30'S		9.3	³ 462.6
20'S		9.5	³ 462.4
10'S		9.5	³ 462.4

CROSS SECTION ON EAST SLOPE
FOR MONTHLY ESTIMATE

1/27/42
Cool-Cloudy

53-

Sta + H.I. - I.S. Elev

²
47+88

8+17

Axis 8.6 463.3⁴

10'N 7.4 462.5⁵

20'N 3.5 468.4⁹

30'N 2.5 469.4⁷⁰

8+07

30'N 3.4 468.5⁰

20'N 4.8 467.1⁸

10'N 6.6 465.3⁶

Axis 8.2 463.7⁴

10'S 9.4 462.5³

20'S 9.8 462.1³

30'S 10.1 461.8²

40'S 11.2 460.7¹

CROSS SECTION ON EAST SLOPE
FOR MONTHLY ESTIMATE

11/27/42
Cool-Cloudy

56.

Sta	+	H.I.	-	I.S. Elev.
		477.88 ²		
		8407		
50'S				11.8 460.1 ¹
60'S				12.8 459.1 ⁶⁰
70'S				14.2 457.7 ⁸
80'S				14.2 457.7 ⁸
90'S				14.0 457.9 ⁸
100'S				13.8 458.1 ⁹
110'S				13.3 458.6 ⁹
120'S				13.2 458.7 ⁹
130'S				12.8 459.1 ⁶⁰
140'S				12.4 459.5 ⁶⁰
150'S				11.8 460.1 ¹
160'S				10.6 461.3 ²
170'S				9.1 462.8 ³

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Polak
Loing
King
Cole

57

Sta	+	H.I.	-	I.S.	Elev.
		² 477.88			
		8+07			
180'S				7.3	464 ⁵ 6
190'S				5.6	466 ⁷ 3
200'S				4.4	467 ⁸ .5
		8+005			
200'S				3.4	468 ⁹ .5
190'S				5.6	466 ⁷ 3
180'S				7.7	464 ⁵ 2
170'S				9.1	462 ³ .8
160'S				10.7	460 ² .2
150'S				11.4	460 ¹ .5
140'S				11.8	460 ¹ .1
130'S				12.6	459 ⁶⁰ .3
126'S				12.6	459 ⁶⁰ .3

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson 58.
Polak
Laing
King
Cote

Sta. + H.I. - I.S. Elev

²
477.88

8+005

110'S

13.3

⁹
458.6

100'S

13.1

⁹
457.8

90'S

13.8

⁹
458.1

80'S

14.2

⁸
457.7

70'S

14.1

⁸
457.8

60'S

12.8

⁶⁰
459.1

50'S

12.3

⁶⁰
459.6

40'S

11.5

¹
460.4

30'S

10.7

⁷
461.2

20'S

10.1

²
461.8

10'S

9.4

³
462.5

AXIS

8.0

⁴
463.4

10'N

6.6

⁶
465.3

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson
Palok
Loing
King
Cote

39

Sta + H.I. - I.S. Elev

²
477.88

8+005

20'N

4.9 467.0

30'N

3.7 468.2

A-9

B.M.

8.62

4
463.78

Elev of B.M. = 464.29

T.B.M.

498.12

7.21 505.40

9+30

40'N

0.6 504.8

30'N

2.4 503.0

9+20

40'N

3.3 502.1

30'N

6.1 499.3

Cross-Section of East Slope
for Monthly Estimate

1/27/42
Cool-Cloudy

Dickinson
Jackson 60.
Polak
Laing
King
Cole

Sta + H.L. - IS Elev.

50540

9+10

40'N 6.8 498.6

30'N 8.1 497.3

T.P. 12.31 493.09

1.01 494.10

9+00

40'N 3.4 490.7

30'N 4.9 489.2

8+935

40'N 5.1 489.0

30'N 4.8 489.3

8+835

40'N 5.8 488.3

30'N 14.3 479.8

Cross-Section on East Slope
for Monthly Estimate

1/27/42
Cool - Cloudy

Dickinson
Jackson
Polak
Laing
King
Cole

Sta. + H.I. - I.S. Elev

49410

T.B.M

10.49

483.61

EI of T.B.M = 483.61

(Contd from F.B #616 - Page 75)

Cross-Section on West Slope
for Monthly Estimate (Jan)

1/30/42
Partly Cloudy

Jackson
Polak
Laing
King
Cole

62.

Sta. + H.I. - I.S. Elev

T.P. 495.31

4.5 499.87

5+91

60'S 7.5 492.4

50'S 9.7 490.2

40'S 9.7 490.2

30'S 9.7 490.2

20'S 10.0 489.9

10'S 9.8 490.1

Axis 9.9 490.0

10'N 9.9 490.0

20'N 8.9 491.0

5+81

20'N 7.6 492.3

10'N 7.3 492.6

Sta + HI - 15 Elev

1/30/42
Partly Cloudy

63.

499.87

5+81

AxN 8.9 491.0

10'S 8.9 491.0

20'S 8.0 491.9

30'S 6.4 493.5

40'S 6.0 493.9

50'S 7.2 492.7

60'S 6.1 493.8

6+01

40'N 2.9 497.0

30'N 4.9 495.0

20'N 8.8 491.1

10'N 9.6 490.3

AxN 9.9 490.0

10'S 9.6 490.3

20'S 9.6 490.3

Cross-section on West Slope
for Monthly Estimate (Jan)

1/30/42
Partly Cloudy

Dickinson
Jackson
Polak
Loring
King

64.

Sta. + H.I. - IS. Elev

Sta.	+ H.I.	- IS.	Elev
	499.87		
30'S	6+01	97	490.2
40'S		10.0	489.9
50'S		10.0	489.9
60'S		100	489.9
70'S		98	490.1
80'S		96	490.3
90'S		8.9	491.0
100'S		7.2	492.7
110'S		3.6	496.3
120'S		4.2	495.7
130'S		0.0	499.9
140'S		+7.8	507.7
T.P.		3.59	496.28
	10.11	506.39	
T.B.M.		3.54	502.85

F.I. of T.B.M. = 502.87

Cross-Section for Month
 Estimate for February
 West Abutement

2/27/42
 Cool-Cloudy

Dickinson
 Jackson
 Polak
 King
 Cote
 Lovell

65

Sta. + H.I. - I.S. Elev

T.B.M. 469.5

0.17 469.76

6+875

40'N 8.1 461.7

30'N 12.5 57.3

20'N 13.4 56.4

10'N 13.4 56.4

Axis 12.6 57.2

10'S 12.0 57.8

20'S 12.6 57.2

30'S 13.2 56.6

40'S 14.4 55.4

50'S 14.7 55.1

60'S 14.4 55.4

70'S 14.9 54.9

80'S 14.7 455.1

Sta + H.I. - 15. Elev

2/27/42
Cool-Cloudy

66.

469.76

6+875

90'S	12.2	457.6
100'S	10.4	594
110'S	8.8	61.1
120'S	8.6	61.2
130'S	9.1	60.7
140'S	10.8	59.0
150'S	9.2	60.6
160'S	10.1	59.7
170'S	9.5	60.3
180'S	8.7	61.1
180'S	8.4	61.4
170'S	9.3	60.5
160'S	11.0	58.8
150'S	12.2	457.6

6+775

277-0

66

Sta.	+	H.I.	-	I.S.	F.lev	2/27/42	67
		469.76				Cool-Cloudy	67
		6+775					
140'S				12.1	457.7		
130'S				11.3	58.5		
120'S				10.3	59.5		
110'S				8.7	61.1		
100'S				7.3	62.5		
90'S				7.2	62.6		
80'S				10.7	59.1		
70'S				13.1	56.7		
60'S				13.2	56.6		
50'S				13.8	56.0		
40'S				14.2	55.6		
30'S				14.2	55.6		
20'S				13.6	56.2		
10'S				13.3	56.5		
AXIS				13.6	456.2		

2/27/42
Cool-Cloudy

68

Sta	+	H.I.	-	I.S.	Elev		
		469.76					
		6+775					
10'N				13.6	456.2		
20'N				13.4	456.4		
30'N				12.8	457.0		
40'N				6.3	463.5		
		6+675					
40'N				5.1	464.7		
30'N				11.9	57.9		
20'N				12.8	57.0		
10'N				14.4	55.4		
Axis				14.6	55.2		
10'S				14.5	55.3		
20'S				14.5	55.3		
30'S				13.6	56.2		
40'S				10.6	59.2		
50'S				9.1	460.7		

21

Sta + H.I. - I.S. Elev 2/27/42
Cool-Cloudy

469.76

6+675

Sta	H.I.	I.S.	Elev
60'S		9.9	459.9
70'S		7.3	625
80'S		6.9	629
90'S		8.9	609
100'S	646.15	7.7	621
110'S		7.8	620
120'S		10.8	590
130'S		12.2	576
140'S		12.4	574
150'S		11.9	579
160'S		10.2	596
170'S		8.8	610
180'S		1.1	687
180'S	6+61	+2.6	472.4

pl

Sta	+	H.I.	-	I.S.	Elev	2/27/42	70.
		469.76				600 - Cloudy	
		6+61					
170'S				6.5	463.3		
160'S				10.1	459.7		
150'S				11.2	58.6		
140'S				12.2	57.6		
130'S				13.3	56.5		
120'S				11.9	57.9		
110'S				6.7	63.1		
100'S				7.9	61.9		
90'S				7.1	62.7		
80'S				5.5	64.3		
70'S				7.0	62.8		
60'S				6.5	63.3		
50'S				8.0	61.8		
40'S				9.9	59.9		
30'S				13.1	456.7		

Sta

+

HI

-

I.S.

Flex

2/27/42

Cool - Cloudy

71

46976

6+61

20'S

144 455.4 ✓

10'S

145 55.3 ✓

Axis

146 55.2 ✓

10'N

136 56.2 ✓

20'N

123 57.5 ✓

30'N

115 58.3 ✓

40'N

58 64.0 ✓

6+51

40'N

41 65.7 ✓

30'N

111 58.7 ✓

20'N

130 56.8 ✓

10'N

141 55.7 ✓

Axis

146 55.2 ✓

10'S

145 55.3 ✓

20'S

141 455.7 ✓

R.L.

Sta + H.I. - I.S. Elev.

2/27/42
Cool-Cloudy

14

72

469.76

6+51

2054

14-3

30'S

11.9 457.9

40'S

9.5 60.3

50'S

8.0 61.8

60'S

5.9 63.9

70'S

3.9 65.9

80'S

4.6 65.2

90'S

7.6 62.2

100'S

8.2 61.6

110'S

8.2 61.6

120'S

9.2 60.6

130'S

11.3 58.5

140'S

11.6 58.2

150'S

8.9 60.9

160'S

7.7 62.1

170'S

5.6 464.2

2054

2/27/42
Cool-Cloudy

Sta + H.I. - I.S. Elev

469.76
6+41

469.76
6+41

160'S		1.6	468.2
150'S		7.4	624
140'S		7.7	621
130'S		9.8	600
120'S		9.1	607
116'S		9.8	600
100'S		7.8	620
90'S		8.8	610
80'S		7.7	621
70'S		8.8	610
60'S		8.2	616
50'S		8.7	611
40'S		9.7	601
30'S		10.1	59.7
20'S		12.6	457.2

rl.

Sta + H.I. - I.S. Elev.

2/27/42
Cool-Cloudy

74

46976

6+41

10'S 14.0 455.8 ✓

Axis 14.9 54.9 ✓

10'N 14.6 55.2 ✓

20'N 13.4 55.4 ✓

30'N 10.4 59.4 ✓

40'N 3.9 65.9 ✓

6+31

40'N 3.2 66.6 ✓

30'N 7.4 62.4 ✓

20'N 9.0 60.8 ✓

10'N 11.6 58.2 ✓

Axis 13.2 56.6 ✓

10'S 10.9 58.9 ✓

20'S 9.5 60.3 ✓

30'S 6.9 62.9 ✓

40'S 5.3 464.5 ✓

pl

Sta

+

H.I.

-

I.S.

Elev

2/27/42
Cool-Cloudy

75

469.76

6+31

50'S

5.9 463.9

60'S

6.8 630

70'S

6.2 636

80'S

5.9 639

90'S

5.0 648

100'S

3.9 659

110'S

4.1 657

120'S

4.4 654

130'S

3.2 666

140'S

1.4 684

6+21

100'S

0.0 698

90'S

0.7 691

80'S

3.3 665

70'S

4.2 4656

Sta	+	H.I	-	IS	Elev	2/27/42	76
		469.76				Cool-Cloudy	
		6+21					
60'S				4.5	465.3		
50'S				4.3	65.5		
40'S				1.7	68.1		
30'S				3.1	63.7		
20'S				1.6	68.2		
10'S				5.4	64.4		
Axis				4.2	65.6		
10'N				11.7	58.1		
20'N				9.5	60.3		
30'N				4.3	65.8		
40'N		6+21		3.5	63.3		
		6+11					
40'N				1.7	68.1		
30'N				5.6	64.2		
20'N				5.6	464.2		

21

Sta + H.I. - IS Elev. 2/27/42
Cool-Cloudy

77.

469.76

6+11

10'N. 4.0 465.8

Axis 3.7 66.1

10'S 1.6 68.2

T.P. 0.35 469.41

1158 480.99

6+11

20'S 11.0 470.0

30'S 13.4 67.6

40'S 11.1 69.9

50'S 13.1 67.9

60'S 11.1 69.9

70'S 11.1 69.9

80'S 7.6 73.4

90'S 6.1 74.9

100'S 4.5 76.5

al.

2/27/42
Cool-Cloudy

78.

Sta + H.I. - I.S. Elev.

480.99

6+11

110'S 1.8 469.2 ✓

120'S 1.7 693 ✓

130'S 2.4 786 ✓

140'S 0.9 801 ✓

150'S

160'S

170'S

6+21

110'S 8.3 72.7 ✓

120'S 7.2 73.8 ✓

130'S 6.0 75.0 ✓

140'S 7.0 74.0 ✓

150'S 6.1 74.9 ✓

160'S 2.3 78.7 ✓

170'S 0.2 480.8 ✓

pl.

Sta + H.I. - I.S. Elev

2/27/42
Cool - Cloudy

Jackson
Polak
Cole

79

480.99

6+31

150'S 10.7 470.3 ✓

160'S 8.8 72.2 ✓

170'S 6.8 74.2 ✓

180'S 3.5 77.5 ✓

6+41

170'S 9.5 71.5 ✓

180'S 6.4 74.6 ✓

6+51

180'S 7.2 73.8 ✓

190'S 7.0 74.0 ✓

6+01

80'S 0.7 80.3 ✓

70'S 4.1 76.9 ✓

60'S 4.6 76.4 ✓

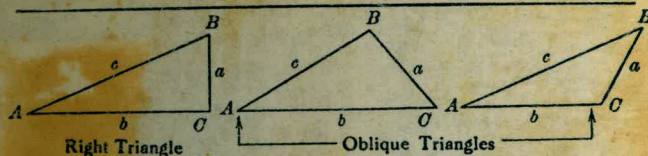
50'S 7.7 473.3 ✓

Note - cont in F.B. #592
Page 1

	40	30	20	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
40 N.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
107 00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
919 W	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9189	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9177	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9160	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9140	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

$$\begin{array}{r} 461 \\ 228 \\ \hline 320 \\ 312 \\ \hline 80 \end{array}$$

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\text{cosec} = \frac{c}{b}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2} A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2} B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$ ft.
When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.