

W
416

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

II	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

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Pg.

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Jan 1/33

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63 summary of core wall concrete

65-66 Core Wall Extension to Ogee

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JAN 18 1982

Core Trench Excavation

Sloped Section - Sched. Item 7.

Neat Line Calculated to Bottom Bl. - Pg. 34

	Bottom Bl.	Top Bl.	
Slope Section Begins	Top 6'	See Profile	
	Neat Line	at 20'	
	Tr. Ex Pg 34	See sheet	
N 3015	748.1	751.1	$\frac{6+12}{2} \times 3$
3020	748.1	751.1	Same Section
20	748.1	752.3	See Enl Sec. Sheet 2
30	744.0	752.0	" " " " 3
40	737.8	745.8	" " " " 1
50	721.4	729.4	" " " " 9
60	715.1	723.1	" " " " 9
70	709.5	717.5	" " " " 1
80	702.6	710.6	" " " " 1
90	696.4	704.4	" " " " 3
3100	691.0	699.0	" " " " 4
10	686.6	694.6	" " " " 3
20	680.8	688.8	" " " " 6
30	678.8	686.8	" " " " 2
40	671.0	679.0	" " " " 2
50	665.2	673.2	" " " " 2

Core Trench Excavation

Cal by Sta. of " 3112

End Area Sq. ft	Average End Area	Length Section	Volume Cu ft	Cu Yds.
27.00	27.00	5'	135.00	
27.00				
43.83	75.165	10'	751.65	
106.50	109.95	10'	1099.50	
113.40	110.40	10'	1104.00	
107.40	106.495	10'	1064.95	
105.59	104.535	10'	1045.35	
103.48	101.605	10'	1016.05	
99.73	98.315	10'	983.15	
96.90	90.12	10'	901.20	
83.34	94.23	10'	942.30	
105.12	94.96	10'	949.60	
84.80	86.90	10'	869.00	
89.00	96.285	10'	962.85	
103.57	107.205	10'	1072.05	
110.84	114.29	10'	1142.90	
13	Carried Forwd.		14039.55	

Core Trench Excavation

Carried
fwd.

By ft
End Area

Average
End Area

Length
Section

Volume
Cu ft.

Item 7.

Sloped Section

Heat line Tr. Cal. to Bottoms El. on Page 32.

Bottoms

TOP

Brought Forwd. 14039.55

Item	Bottoms	TOP	See Encl. Sec.	Sheet	By ft End Area	Average End Area	Length Section	Volume Cu ft.
H 3160	659.5	667.5	See Encl. Sec.	Sheet 5	117.74	98.095	10.	980.95
70	660.2	668.2	"	" 5	78.45	94.315	10.	943.15
80	652.0	660.0	"	" 6	110.18	110.56	10.	1105.60
90	647.0	655.0	"	" 5	110.94	113.755	10.	1137.55
3200	640.6	648.6	"	" 5	116.57	115.44	10.	1154.40
10	635.6	643.6	"	" 6	114.31	104.245	10.	1042.45
20	631.6	639.6	"	" 6	94.18	93.19	10.	931.90
30	629.6	637.6	"	" 5	92.20	98.955	10.	989.55
40	622.1	630.1	"	" 7	105.71	107.71	10.	1077.10
50	617.0	625.0	"	" 7	109.71	107.985	10.	1079.85
60	613.1	621.1	"	" 7	106.26	117.895	10.	1178.95
70	607.8	615.8	"	" 7	129.53	119.375	10.	1193.75
80	603.2	611.2	"	" 7	109.22	114.985	10.	1149.85
90	597.0	605.0	"	" 8	120.75	121.175	10.	1211.75
3300	592.5	600.5	"	" 8	121.60	111.850	10.	1118.50
10	588.1	596.1	"	" 8	102.10	102.950	10.	1029.50
20	582.5	590.5	"	" 10	103.80	88.355	5.	441.775
25 ^{min}	579.6	587.6	"	" 9	72.91	72.04	5.	360.20
30	578.7	586.7	"	" 9	71.17	84.27	4.	337.08
34	578.7	586.7	"	" 10	97.37			
								Total 32503.40

2725661
950.7

(14145)

1203.83

Core Trench Excavation

Sloped Section - less 8x6 Heat wire

Trench which is Calculated on Pg. 25

Item - 1

Sq. ft. Aver. Dist. Ccft

Item	Bottom	Top	Description	Sq. ft.	Aver.	Dist.	Ccft
N3334	578.7	586.7	See Enl. Sec Sheet 10	49.37	55.905	6'	335.43
40	578.6	586.6	See Enl. Sec. on X Sec	62.44			
50	565.9	573.9	" " " Sheet 10	(31.22)			
60	562.3	570.3	See X Sec. Sheet	20.10			
70	562.3	570.3	See Enl. Sec Sheet 10	1.76			
80	551.7	559.7	See X Sec Sheet	19.91			
90	546.3	554.3	See Enl. Sec. Sheet 10	0.08			
3400	545.1	553.1	" " " " 13	4.74			
10	542.9	550.9	" " " " 11	28.65			
20	540.1	548.1	" " " " 11	32.27			
30	539.2	547.2	" " " " 11	9.21			
40	538.1	546.1	" " " " 11	23.50			
				(23.74)			
				47.48			
Total				195.18	x 10		1951.80
							2287.23 = 84.71

Core Trench Excavation
Sloped Section

Item 12	Bottom	Top	See Ent. Sec	Sheet 11
N3440	536.1	546.1	" " " "	" "
50	528.2	538.2	26'	10'
60	530.3	540.3	1:1 Slope	10'
70	528.3	538.3		
80	527.9	537.9		
90	528.1	538.1		
3500	528.0	538.0		
10	528.1	538.1		
20	528.0	538.0		
30	528.6	538.6		
40	528.9	538.9		
50	528.8	538.8		
60	528.5	538.5		
70	528.7	538.7		
80	528.7	538.7		
90	528.6	538.6		
3600	528.8	538.8		
10	529.0	539.0		
20	528.9	538.9		



Page 26-27
Meat lined trench
Calculated to this El.
See X Sec. Rolls of Pains.

sq ft End Area	Average Brid Area	Length Section	Volume Cu ft	Vol Cu Yds.
119.34	107.79 x 10.		1077.90	
96.24	127.39 x 10.		1273.90	
158.53	159.15 x 10.		1591.50	
159.76	159.78 x 10.		1597.80	
159.80	159.90 x 10.		1599.00	
160.00	160.00 x 10.		1600.00	
160.00	160.00 x 10.		1600.00	
160.00	160.00 x 10.		1600.00	
159.95	159.97 x 10.		1599.70	
160.00	159.98 x 10.		1599.80	
160.00	160.00 x 10.		1600.00	
160.00	160.00 x 10.		1600.00	
160.00	160.00 x 10.		1600.00	
159.82	159.91 x 10.		1599.10	
159.77	159.80 x 10.		1598.00	
159.83	159.80 x 10.		1598.00	
159.93	159.88 x 10.		1598.80	
159.92	159.92 x 10.		1599.20	
159.96	159.94 x 10.		1599.40	
159.92	159.94 x 10.		1599.40	
159.92	159.96 x 10.		1599.60	
Carried Forward			29531.10	

Core Trench Excavation
Sloped Section

Item	Bottom	Top	sq ft End Area	Average End Area	Length Section	Volume Cu.ft.	Volume Cu.Yds.
N 3630	529.1	539.1			Brought Forward	29531.10	6
✓ 40	529.3	539.3	160.00	160.00	10.	1600.00	
✓ 50	529.7	539.7	160.00	159.99	10.	1599.90	
✓ 60	530.6	540.6	159.98	159.99	10.	1599.90	
✓ 70	531.0	541.0	160.00	160.00	10.	1600.00	
✓ 80	531.8	541.8	160.00	159.96	10.	1599.60	
✓ 90	532.7	542.7	159.92	159.92	10.	1599.20	
✓ 3700	533.8	543.8	159.92	159.94	10.	1599.40	
✓ 10	534.8	544.8	159.96	159.98	10.	1599.80	
✓ 20	535.5	545.5	160.00	160.00	10.	1600.00	
✓ 30	536.0	546.0	160.00	160.00	10.	1600.00	
✓ 40	536.6	546.6	160.00	160.00	10.	1600.00	
✓ 50	537.6	547.6	160.00	159.98	10.	1599.80	
✓ 60	539.2	549.2	159.96	159.98	10.	1599.80	
✓ 70	540.7	550.7	160.00	160.00	10.	1600.00	
✓ 80	542.3	552.3	160.00	160.00	10.	1600.00	
✓ 90	547.0	557.0	160.00	160.00	10.	1600.00	
						55128.50	2041.80

See X Sec Rolls of Dam

Core Trench Excavation
Sloped Section

Item 7 Less Heat Line Trench Ex. to This Ft

Item	Bottom	Top	Description
N 3790	547.0	557.0	(See X Sec Sheets)
3800	551.4	559.4	Ex. for Sloped Sec Less 6' Heat Line Tr
10	561.9	569.9	Ex. to top of Sloped Sec See page 28.
20	568.0	576.0	See Enlarged Sec Sheet
25	570.7	578.7	" " " Int ¹⁴
30	571.2	579.2	See Sections No Sloped Ex.
37	571.5	579.5	" " " "

Sq ft End Area	Average End Area	Length Section	Volume Cu ft	Volume @ 0.7 yds.
100.00	81.10	10	811.00	
62.20	62.85	10	628.50	
63.50	48.51	10	485.10	
33.52	29.33	5	146.65	
25.13	12.56	5	62.80	
0.00	0.00	7	0.00	
0.00				
			2134.05	79.04

Item 7. Sloped Section - No Heat Line Trench deduction
as Heat Line Call to bottom Elev. (Pg 28)

Item	Bottom	Top	Description
N 3837	571.5	579.5	8 x 6 Interpolated Sec See Section - No Sloped Sec Sheet 13.
40	572.0	579.6	7.6 x 6 " " " "
45	577.3	585.3	See Interpolated Sec " 13
50	588.8	596.8	" Enlarged Sheet 15
60	599.8	607.8	See Enl. Sec Sheet 15
70	606.7	614.7	" " " " 15
80	615.9	623.9	See Enl. Sec " 16
90	621.9	629.9	" " " " 16
3900	627.0	635.0	See X Sec Sheet Sloped Sec

48.00	46.80	3	140.40
45.60	50.51	5	252.55
55.42	82.39	5	411.95
109.37	111.32	10	1113.20
113.27	111.48	10	1114.80
109.70	112.33	10	1123.30
114.95	111.92	10	1119.20
108.90	83.05	10	830.50
57.20	78.51	10	785.10
Carried Forw.			6891.00

Core Trench Excavation

Sloped Section

Item	No. Heat Line Calc. to Bottom	Trench Bottom Eley	No. Deductions as Heat Line Trench See Page 39	Top	See Encl. Sec	Sheet
✓ 3910	640.7	648.7			See Encl. Sec	Sheet 16
✓ 20	646.0	654.0			See Encl. Sec	" 17
✓ 30	651.4	659.4			See Encl. Sec	" 17
✓ 40	654.6	662.6			See X Sec	" 17
✓ 50	660.8	668.8			See Encl. Sec	" 18
✓ 60	665.1	673.1			" " "	" 18
✓ 70	671.4	679.4			" " "	" 18
✓ 80	674.7	682.7			See Encl. Sec	" 19
✓ 3980	676.0	682.7			" " "	" 19
90	682.7	688.7			" " "	" 20
4000	686.8	693.0			" " "	" 20
10	691.2	697.3			" " "	" 21
20	695.8	701.5			" " "	" 21
30	700.0	707.1			" " "	" 21
40	703.5	710.7			" " "	" 22
50	710.5	716.9			" " "	" 22
60	713.2	722.8			" " "	" 22
70	718.0	725.0			" " "	" 23
80	723.9	731.5			" " "	" 23

Sq. ft. End Area	Average End Area	Length Section	Volume Cu. ft.	Volume & Cu. Yds.
		Brought Forw.	6891.00	
99.82	✓ 110.22	10. ✓	1102.20	
120.62	✓ 121.22	10. ✓	1212.20	
121.82	✓ 117.86	10. ✓	1178.60	
113.90	✓ 110.16	10. ✓	1101.60	
106.42	✓ 86.53	10. ✓	865.30	
66.64	✓ 88.10	10. ✓	881.00	
109.56	✓ 98.00	10. ✓	980.00	
86.45				
78.65	✓ 82.72	10. ✓	827.20	
86.79	✓ 81.90	10. ✓	819.00	
77.00	✓ 84.15	10. ✓	841.50	
91.30	✓ 91.88	10. ✓	918.80	
92.45	✓ 97.62	10. ✓	976.20	
102.78	✓ 100.35	10. ✓	1003.50	
97.93	✓ 98.04	10. ✓	980.40	
98.15	✓ 112.34	10. ✓	1123.40	
126.52	✓ 113.46	10. ✓	1134.60	
100.40	✓ 104.43	10. ✓	1044.30	
108.47	✓ 114.57	10. ✓	1145.70	
Sub Total	2444.37		Carried Forw.	25026.50

Core Trench Excavation
Sloped Section.

Sept 41.

Item	No. Neat line Bottom	Trench Top	deduction as Neat line Trench, Cal to bottom E	See Enlarged Sec Sheet
N4090	727.9	736.8		23
4100	733.2	740.6		24
10	738.7	744.2		24
20	742.1	749.5		25
30	746.0	753.5		26
40	749.9	759.0		26
50	754.4	759.0		27
60	759.1	765.9		27
60	762.9	765.9		27
70	768.1	770.0	Slope Sec Up Stream	25
80	770.0	770.0	" " " "	Sheet 25

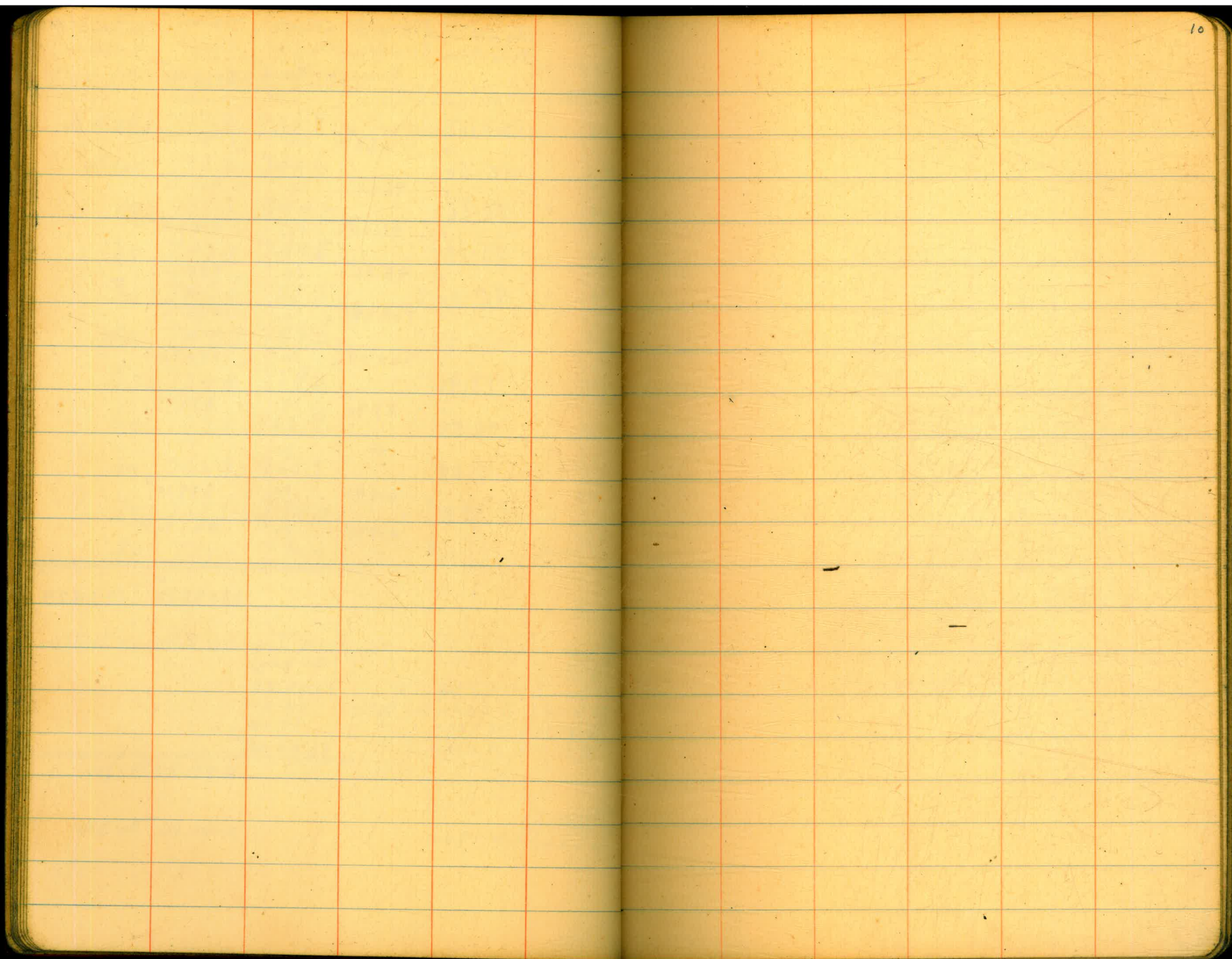
29 ft. End Area	Average End Area	Length Section	Volume Cu. ft.	Volume Cu yds.
		Brought Forward	25026.50	
120.67	113.63	10.	1136.30	
106.60	96.63	10.	966.30	
86.66	91.40	10.	914.00	
96.13	95.56	10.	955.60	
95.00	108.63	10.	1086.30	
122.25	100.08	10.	1000.80	
77.92	87.30	10.	873.00	
96.68	-	-	-	
73.88	64.92	10.	649.20	
55.95	44.77	10.	447.70	
33.60				
			33055.70	1224.29

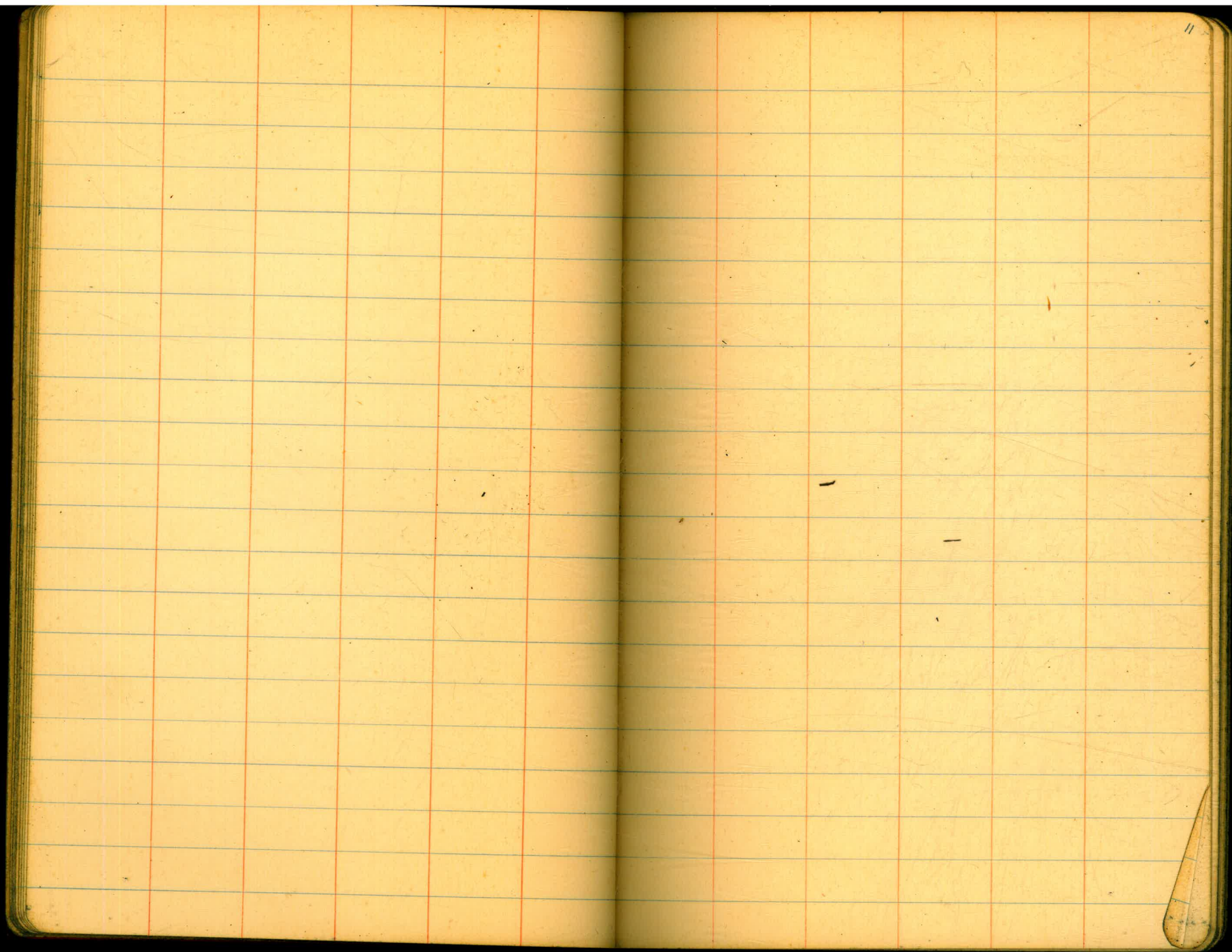
Excavation Summary Core Trench Sloped Section

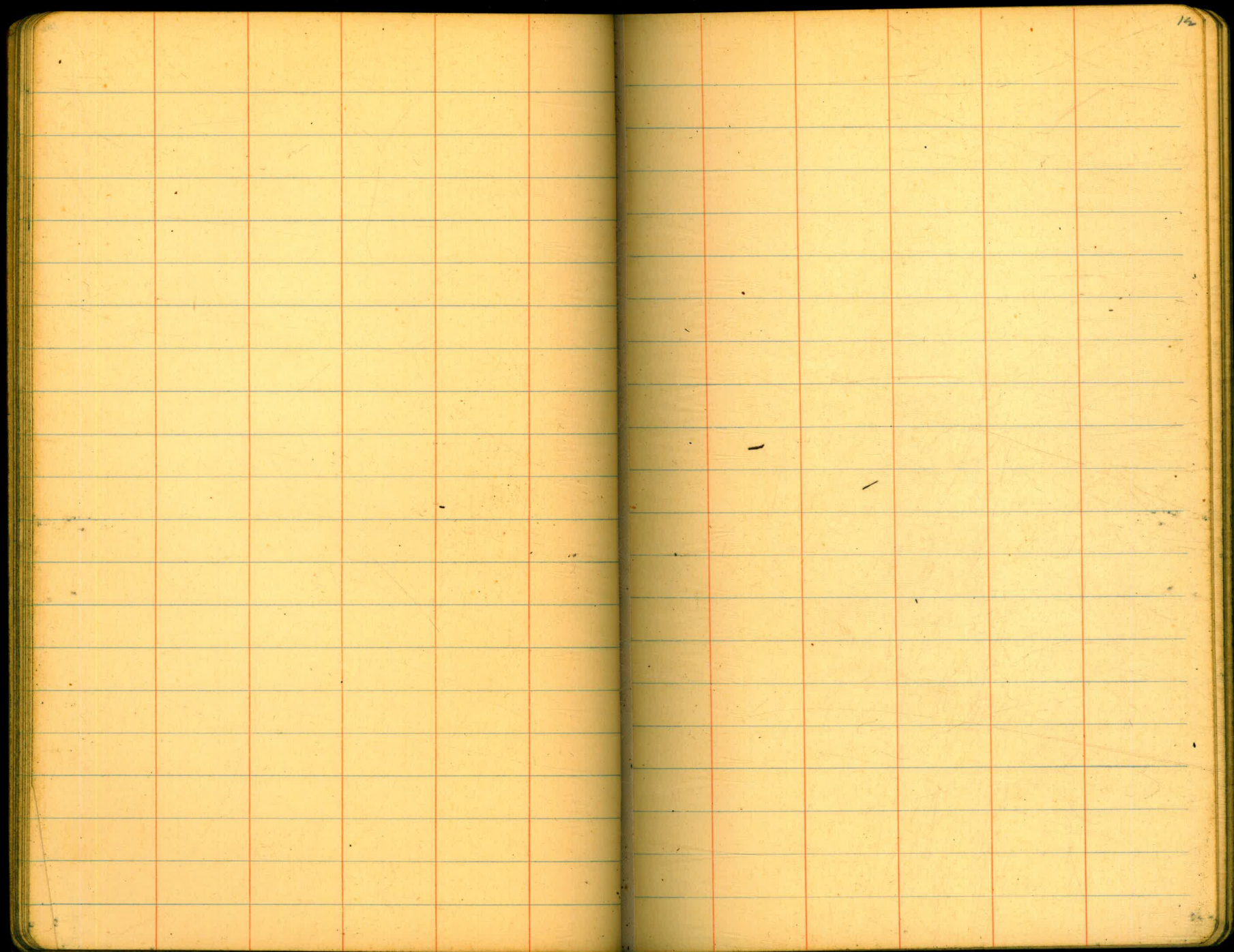
Item	Cu yds.
N3015 to N3334 =	1203.83
N3334 to N3440 Less Neat line	84.71
N3790 to N3837 " " "	79.04
N3837 to N4180 =	1224.29
	2591.87 Cu yds.

Item 12.

N3440 to N3790.	2041.80 Cu yds.
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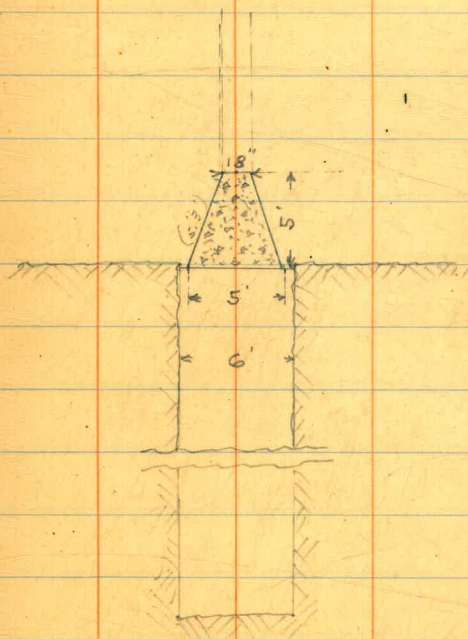




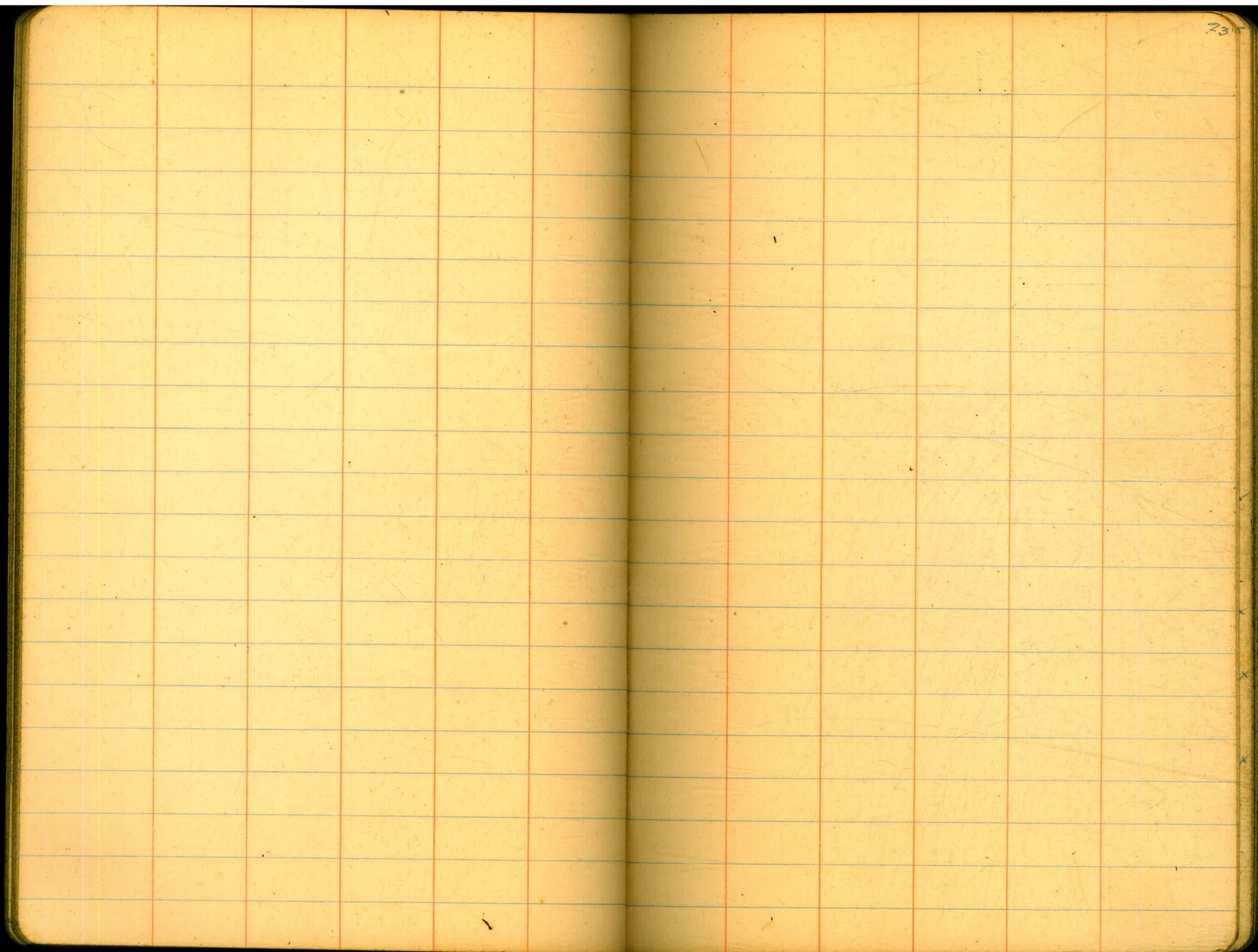
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both sides of each page. The right page is numbered '18' in the top right corner. The pages are otherwise blank, with no handwriting or printed text.

Sketch Transition Section on Concrete Core Wall

Area = 16.25 sq. ft.



The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '22' in the top right corner. The notebook is bound in the center, and the pages are otherwise blank.



The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '24' in the top right corner. The notebook is bound in the center, and the pages are otherwise blank.

CORE TRENCH EXCAVATION

ITEM-12

SLOPED SECTION

From North 3440 to North 3790

Volume as Shown on Pages 5+6

Cu. Yd.
55128.50

SECTION-6' NEAT LINE

Cu. Yd.

North 3334 to N. 3440 Pg 25+26 = 14497.20

North 3440 to N. 3790 Pg 26+26 = 53940.00

North 3790 to N. 3837 Pg 28 = 8979.00

Cu. Yd. 132544.70

Total Item 12 in Core Trench =

= ~~4943.54~~ Cubic Yards = 4909.06

(See est II)

For Sketches

See Page 29

F.O. June 24, 1933

6' Neat line trench Excavation 25
Note: top elev. = top of Sloped Section

Item 12

North	Top Elev.	Bottom Elev.	Height	Mean	Dist	Area
3334	586.7	560.5	26.2	27.2	2	54.40
36	86.6	58.4	28.2	28.35	4	113.40
40	86.6	58.1	28.5			
40	86.6	59.6	27.0			
				22.35	10	223.50
50	73.9	56.2	17.7	16.9	10	169.00
60	70.3	54.2	16.1	16.85	5	84.25
65	70.3	52.7	17.6	19.35	5	96.75
70	70.3	49.2	21.1	18.8	5	94.00
75	65.0	48.5	16.5	17.85	5	89.25
80	59.7	46.5	19.2	21.8	5	109.00
85	57.0	32.6	24.4	23.35	5	116.75
90	54.3	32.0	22.3			
Total						1150.30

Item 12. Core Trench Excavation

North	Top	Bottom	Ht.	Mean Dist	Area
3390	54.3 ^x	29.0 ^x	25.3 ^x	25.55 ^x	1150.30 ^x
3400	53.1 ^x	27.3 ^x	25.8 ^x	25.3 ^x	1150.30 ^x
10	50.9 ^x	26.1 ^x	24.8 ^x	24.25 ^x	1150.30 ^x
20	48.1 ^x	24.4 ^x	23.7 ^x	24.2 ^x	1150.30 ^x
30	47.2 ^x	22.5 ^x	24.7 ^x	26.45 ^x	158.70 ^x
36	46.6 ^x	18.4 ^x	28.2 ^x	28.55 ^x	114.30 ^x
3A40	46.1 ^x	17.2 ^x	28.9 ^x		

2416.20

Trench 6' wide X 6' w
Total Cuft = 14497.20^x

Core Trench Excavation. 26

6' Neat line trench Item 12

North	Top	Bottom	Ht.	Mean Dist	Area
3440	536.1 ^x	517.2 ^x	18.9 ^x	15.85 ^x	158.50 ^x
50	28.2 ^x	15.4 ^x	12.8 ^x	13.3 ^x	66.50 ^x
55	29.2 ^x	15.4 ^x	13.8 ^x	15.35 ^x	76.75 ^x
60	30.3 ^x	13.4 ^x	16.9 ^x	16.8 ^x	168.00 ^x
70	28.3 ^x	11.6 ^x	16.7 ^x		469.75 ^x
70	28.3 ^x	03.4 ^x	24.9 ^x		
80	27.9 ^x	03.2 ^x	24.7 ^x		
90	28.1 ^x	02.3 ^x	25.8 ^x		
3500	28.0 ^x	01.9 ^x	26.1 ^x		
10	28.1 ^x	01.8 ^x	26.3 ^x		
20	28.0 ^x	01.6 ^x	26.4 ^x		
30	28.6 ^x	01.0 ^x	27.6 ^x		
40	28.9 ^x	00.5 ^x	28.4 ^x		
50	28.8 ^x	00.8 ^x	28.0 ^x	211.75 ^x	2117.50 ^x

Forwd → 2587.25^x

Core Trench Excavation					
Item 12	North	Top (6' incl)	Bottom	Height	Brought Forward
3560	528.5	501.0	27.5	14.0 x 3550	2587.25
70	28.7	01.4	27.3		
80	28.7	01.7	27.0		
90	28.6	01.7	26.9		
3600	28.8	02.1	26.7		
10	29.0	02.5	26.5		
20	28.9	02.8	26.1		
30	29.1	02.8	26.3		
40	29.3	02.9	26.4		
50	29.7	02.2	27.5		
60	30.6	02.6	28.0		
70	31.0	02.3	28.7		
80	31.8	02.7	29.1		
90	32.7	03.0	29.7		
3700	33.8	04.4	29.4		
10	34.8	06.1	28.7		
20	35.5	08.4	27.1		
30	36.0	09.9	26.1		
40	36.6	12.3	24.3	12.15	521.15 x 10 = 5211.50
				Forward	7798.75

6' Meat Wine Trench - Item 12. 27					
North	Top (6' incl)	Bottom	Height	Mean Dist.	Area
3740	37.6	15.0	22.6	23.45	7798.75
60	39.2	16.8	22.4	22.50	234.50
62.5	39.6	17.3	22.3	22.35	225.00
70	40.7	17.7	23.0	22.65	55.88
80	42.3	17.7	24.6	22.8	169.87
90	47.0	18.0	29.0	26.8	238.00
					268.00
					8990.00
					x 6
					Total Cwft 53940.00

N 3440 to N 3790 Total Cwft 53940.00

Core Trench Excavation -
Item 12 6' NEAT LINE TRENCH

Note: Top elev. = Top of sloped section.

North	Top	Bottom	Ht.	Mean Dist	Area
3790 ^m	557.0 ^x	518.0 ^x	39.0 ^x		
				39.5 ^x	10 395.00 ^x
3800 ^v	594 ^x	19.4 ^x	40.0 ^x		
				38.2 ^x	4 152.80 ^x
04 ^v	63.6 ^x	27.2 ^x	36.4 ^x		
				38.05 ^x	5 190.25 ^x
09 ^v	68.9 ^x	29.2 ^x	39.7 ^x		
				38.6 ^x	2 77.20 ^x
11 ^v	70.5 ^x	33.0 ^x	37.5 ^x		
				38.15 ^x	4 152.60 ^x
15 ^v	73.0 ^x	34.2 ^x	38.8 ^x		
				37.3 ^x	5 186.50 ^x
20 ^v	76.0 ^x	40.2 ^x	35.8 ^x		
22 ^v	77.1 ^x	42.6 ^x	34.5 ^v	35.15 ^x	2 70.30 ^x
				30.80 ^x	1 30.80 ^x
23 ^v	77.7 ^x	50.6 ^x	27.1 ^x		
				27.25 ^x	2 54.50 ^x
25 ^v	78.7 ^x	51.3 ^x	27.4 ^x		

Forward Sub Total 1309.95^x

Core Trench Excavation 28

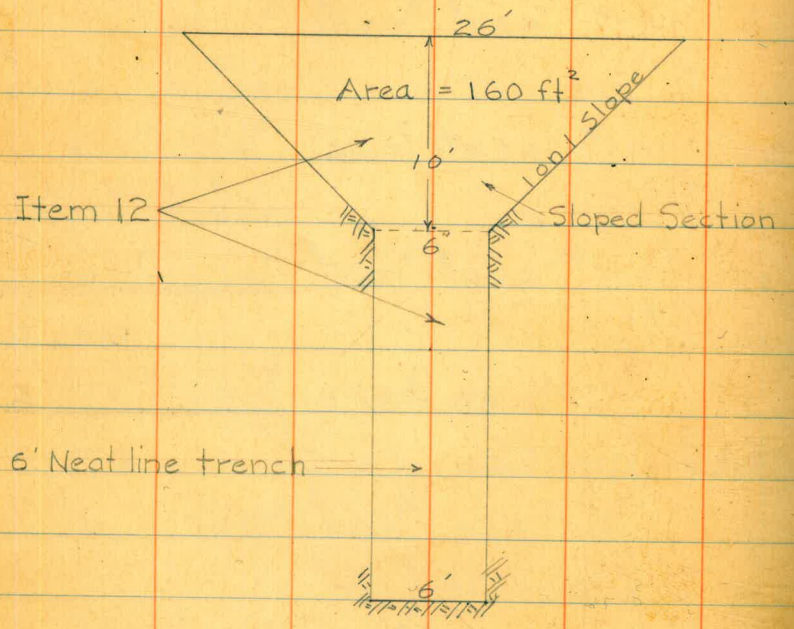
Item 12

North	Top	Bottom	Ht.	Mean Dist	Area
3825 ^v	78.7 ^x	58.7 ^x	20.0 ^x		
				18.2 ^x	5 91.00 ^x
30 ^v	79.2 ^x	62.8 ^x	16.4 ^x		
				13.65 ^x	7 95.55 ^x
27 ^v	79.5 ^x	68.6 ^x	10.9 ^x		
					1496.50 ^x
Width trench					6 ^x
N3790 to N3837 - Total Cu. ft.					8979.00 ^x

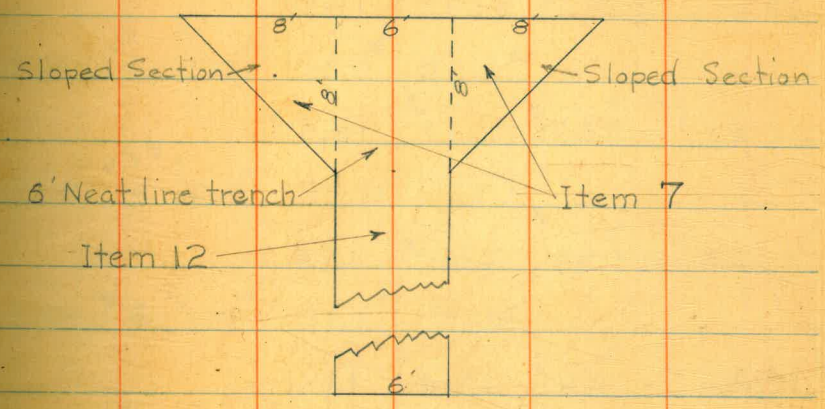
To Page 38

SKETCH OF CORE TRENCH EXC.

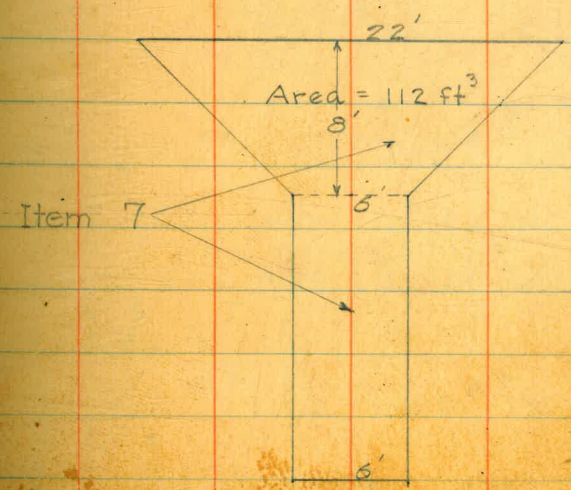
From North 3440 to N. 3790



From N. 3334 to N. 3440 and from N. 3790 to N. 3837



From N. 3334 South and From N. 3837 North



CORE TRENCH EXCAVATION

ITEM 7 6' NEAT LINE TRENCH

Core Trench Excavation Item 7 - 6' Neat line -

North	Top	Bottom	Ht.	Mean Dist	Area	North	Top	Bottom	Ht.	Mean	D	Area	
						3295	947	70.9	23.8	Brought	Forwd	734.70	
3334	578.7	560.5	18.2							22.9	5	114.50	
				18.35	4	734.0	90	97.0	75.0	22.0			
30	78.7	60.2	18.5							19.55	1	19.55	
				18.75	2	37.50	89	97.6	80.5	17.1			
28	79.1	60.1	19.0							19.05	9	171.45	
				18.1	3	54.30	80	603.2	82.2	21.0			
25	79.6	62.4	17.2							21.5	4	86.00	
				17.1	1	17.10	76	05.0	83.0	22.0			
24	80.2	63.2	17.0							76	05.0	89.8	15.2
				17.65	7	123.55				16.05	6	96.30	
17	84.3	66.0	18.3							70	07.8	90.9	16.9
										17.3	2	34.60	
17	84.3	70.6	13.7							68	08.9	91.2	17.7
				15.9	7	111.30				18.9	5	94.50	
10	88.1	70.6	18.1							63	11.5	91.4	20.1
				19.65	7	137.55				20.0	3	60.00	
3303	91.2	70.0	21.2							60	13.1	93.2	19.9
				22.5	8	180.00							
3295	947	70.9	23.8										
				Forwd		734.70							
										Forwd		1411.60	

Core Item	Trench Top	Excavation Bottom	Excavation Ht.	Excavation Mean	Excavation D	Excavation Area
7-				Brought Forward		
North 3260 ✓	613.1 ^x	593.2 ^x	19.9 ^x	19.4	5	1411.60
55 ✓	15.0 ^x	96.1 ^x	18.9 ^x	18.55	5	97.00
50 ✓	17.0 ^x	98.8 ^x	18.2 ^x	19.4	5	97.00
45 ✓	19.6 ^x	99.0 ^x	20.6 ^x	21.4	5	107.00
40 ✓	22.1 ^x	99.9 ^x	22.2 ^x	24.5	8	196.00
32 ✓	28.1 ^x	601.3 ^x	26.8 ^x	16.6	2	33.20
32 ✓	28.1 ^x	12.2 ^x	15.9 ^x	17.8	6	106.80
30 ✓	29.6 ^x	12.3 ^x	17.3 ^x	15.20	5	7.60
24 ✓	30.8 ^x	12.5 ^x	18.3 ^x	12.20	3.5	42.70
23.5 ✓	30.9 ^x	18.8 ^x	12.1 ^x	12.20	3.5	42.70
20 ✓	31.6 ^x	19.5 ^x	12.3 ^x			
Forward						2191.65 ^x

Core Item	Trench Top	Excavation Bottom	Excavation Ht.	Excavation Mean	Excavation D	Excavation Area
7-				Brought Forward		
North 3220 ✓	31.6 ^x	19.3 ^x	12.3 ^x	12.4	1	12.40
19 ✓	32.0 ^x	19.5 ^x	12.5 ^x	10.85	1	10.85
18 ✓	32.4 ^x	23.2 ^x	9.2 ^x	10.70	8	85.60
10 ✓	35.6 ^x	23.4 ^x	12.2 ^x	12.45	1	12.45 ^x
09 ✓	36.1 ^x	23.4 ^x	12.7 ^x	11.85	5	59.25
04 ✓	38.6 ^x	27.6 ^x	11.0 ^x	11.7	4	46.80
3200 ✓	40.6 ^x	28.2 ^x	12.4 ^x	13.15	3	39.45
3197 ✓	42.5 ^x	28.6 ^x	13.9 ^x	13.55	3	40.65
94 ✓	44.4 ^x	31.2 ^x	13.2 ^x	14.4	4	57.60
90 ✓	47.0 ^x	31.4 ^x	15.6 ^x			
Forward						2556.70 ^x

Core Trench Excavation						
North	Item 7. Top	Bottom	G' Neat Line. Ht.	Mean D	Area	
				Brought Forward		
3190 ✓	647.0	631.4	15.6	16.05	2556.70	2
88 ✓	480	31.5	16.5	13.95	3210	2
86 ✓	49.0	37.6	11.4	11.50	27.90	2
85 ✓	49.5	37.9	11.6	11.3	11.50	5
84.5 ✓	49.8	38.8	11.0	11.75	5.65	35
81 ✓	51.5	39.0	12.5	11.8	41.15	35
80 ✓	52.0	40.9	11.1	8.9	11.80	1
76 ✓	55.2	48.6	6.7	8.9	35.60	4
70 ✓	60.2	50.8	9.4	8.05	48.30	6
60 ✓	59.5	51.1	8.4	8.9	89.00	10
57 ✓	61.2	51.2	10.0	9.2	27.60	3
52 ✓	64.1	52.9	11.2	10.6	53.00	5
Forwd. 2940.27						

Core Trench Excavation						
North	Item 7. Top	Bottom	G' Neat Line. Ht.	Mean D	Area	
				Brought Forward		
3152 ✓	64.1	52.9	11.2	11.7	2940.27	2
50 ✓	65.2	53.0	12.2	14.65	23.40	9
41 ✓	70.4	53.3	17.1	16.85	131.85	1
40 ✓	71.0	54.4	16.6	16.85	16.85	1
39 ✓	71.8	55.5	16.3	16.45	16.45	1
30 ✓	78.8	59.4	19.4	17.85	160.65	9
21.5 ✓	80.6	63.1	17.5	18.45	156.83	8.5
21 ✓	80.6	71.2	9.4	13.45	6.73	5
20 ✓	80.8	71.0	9.8	9.6	9.60	1
18 ✓	82.0	70.5	11.5	10.65	21.30	2
10 ✓	686.6	71.5	15.1	13.3	106.40	8
Forwd. 3590.33						

Core Trench Excavation				
Item 7 6' Heat Line.				
North	top	bottom	Ht	Mean D
				Brot. Forwd
3110	686.6	671.5	15.1	3590.33
				x x
				15.95 79.50
05	88.8	72.1	16.7	
				x x
				13.55 5 67.75
3100	91.0	80.6	10.4	
				x x
				12.15 6 72.90
3094	94.2	80.3	13.9	
				x x
				13.4 4 53.60
90	96.4	83.5	12.9	
				x x
				12.7 2 25.40
88	97.6	85.1	12.5	
				x x
				13.8 8 110.40
80	702.6	87.5	15.1	
				x x
				16.55 4 66.20
76	05.4	87.4	18.0	
				x x
				16.55 3 49.65
73	07.5	92.4	15.1	
				x x
				31.9 15.95 3 47.85
70	09.5	92.7	16.8	
				Forwd - 4163.58

Core Trench Excavation				
Item 7- 6' Heat Line.				
North	top	bottom	Ht.	Mean D
				Brot. Forwd
3070	709.5	692.7	16.8	4163.58
				x x
				18.6 8 148.80
62	14.0	93.6	20.4	
				x x
				19.90 2 39.80
60	15.1	95.6	19.5	
				x x
				18.60 4 74.40
56	17.6	99.8	17.8	
				x x
				19.05 4 76.20
52	20.1	99.8	20.3	
				x x
				16.1 1 16.10
51	20.8	708.9	11.9	
				x x
				12.05 1 12.05
50	21.4	09.2	12.2	
				x x
				18.55 10 185.50
40	37.8	12.9	24.9	
				x x
				25.75 6 154.50
34	41.5	14.9	26.6	
				x x
				24.55 1 24.55
33	42.1	19.6	22.5	
				Forwd - 4895.48

Core Trench Excavation
Item 7. G. Heat Line.

North	top	bottom	height	Mean D	Area
3033	742.1	19.6	22.5	23.2	4895.48
30	44.0	20.1	23.9	23.2	69.60
29	44.4	20.2	24.2	24.05	24.05
28	44.8	22.3	22.5	23.35	23.35
20	48.1	23.5	24.6	23.55	188.40
17	48.1	23.8	24.3	24.45	56.24
17.5	48.1	25.3	22.8	23.55	4.71
15	48.1	26.0	22.1	22.45	56.13
15	54.9	26.0	28.9	29.40	117.60
11	57.0	27.1	29.9	30.2	30.20
10	57.6	27.1	30.5		

Formed - 5465.76

Core Trench Excavation
Item 7. G. Heat Line.

32

North	top	bottom	height	mean D	Area
3010	57.6	27.1	30.5	30.9	5465.76
09	58.4	27.1	31.3	31.3	
06	61.0	29.7	31.3	31.3	
06	61.0	40.1	20.9	21.05	21.05
05	61.8	40.6	21.2		
05	61.8	52.9	8.9		
01	65.2	53.1	12.1	10.5	42.00
3000	66.0	58.6	7.4	9.75	9.75
2995	69.6	59.0	10.6	9.0	45.00
94	70.4	65.6	4.8	7.7	7.70
91.5	72.2	72.2	0.0	2.4	6.00

Formed - 5722.06

Note: These Sec. Figures are
 based on a top of 3.8 on B.C.
 To be checked in the field
 Ex. here.

Core Trench Excavation
Item 7 - 6' Neat Line.

North	top	bottom	height	mean	D	
2991.5	72.2	72.2	0.0			59ft ✓ 5722.06
					0.55	15 0.82
90 ✓	73.3 ✓	72.2 ✓	1.1 ✓			

Σ 3334 1/2 N 2990 - Total = 5722.88

Width of Trench = 6'

5722.88 x 6 = 34337.28 ^{cu ft}

= 1271.75 ^{cu yds.}

CORE TRENCH EXCAVATION

Stem 7

ITEM 7						6' NEAT LINE TRENCH							
North	Top	Bottom	Ht.	Mean	D	Area	North	Top	Bottom	Ht.	Mean	D	Area
							3869	06.0	85.5	20.5	Brought Forwd		418.40
3837	571.5	568.6	02.9								20.8	1	20.80
				145	1	1.45	70	06.7	85.6	21.1			
38	71.6	71.6	00.0								24.3	8	194.40
							78	14.1	86.6	27.5			
40	72.0	72.0	00.0								28.3	2	56.60
				22.5	5	11.25	80	15.9	86.8	29.1			
45	77.3	72.8	4.5								31.3	9	281.70
				5.55	1	5.55	89	21.3	87.8	33.5			
46	79.6	73.0	6.6								33.55	1	33.55
				10.1	4	40.40	90	21.9	88.3	33.6			
50	88.8	75.2	13.6								33.6	1	33.60
				15.0	5	75.00	91	22.4	88.8	33.6			
55	94.3	77.9	16.4								34.95	9	314.55
				18.55	5	92.75	3900	27.0	90.7	36.3			
60	99.8	79.1	20.7								31.65	1	31.65
				21.4	3	64.20	01	28.4	601.4	27.0			
63	601.9	79.8	22.1								33.3	9	299.70
				21.3	6	127.80	10	40.7	01.1	39.6			
69	06.0	85.5	20.5								Forwd		1684.95
						Forwd - 418.40							

Core Trench Excavation

Stem 7

North	Top	Bottom	Ht.	Mean D	Area
3910	640.7	601.1	39.6	39.85	1684.95
11	412	01.1	40.1	36.55	18.27
11.5	41.5	08.5	33.0	33.00	82.50
14	42.8	09.8	33.0	34.6	207.60
20	46.0	09.8	36.2	29.0	116.00
20	46.0	15.7	30.3	29.3	175.80
24	48.2	20.5	27.7	31.2	62.40
30	51.4	20.5	30.9	25.1	200.30
32	52.0	20.5	31.5	27.5	110.00
32	52.0	28.1	23.9	27.5	2698.17
40	54.6	28.3	26.3		
44	57.1	28.4	28.7		

Stem 7

39

North	Top	Bottom	Ht.	Mean D	Area
3944	57.1	28.4	28.7	24.75	37.12
45.5	58.0	37.2	20.8	21.5	96.75
50	60.8	38.6	22.2	22.35	44.70
52	61.7	39.2	22.5	20.85	41.70
54	62.5	43.3	19.2	19.3	115.80
60	65.1	45.7	19.4	20.25	162.00
68	70.1	49.0	21.1	20.5	20.50
69	70.8	50.9	19.9	20.05	20.05
70	71.4	51.2	20.2	20.35	101.75
75	73.0	52.5	20.5		

Forwd 3338.54

Stem 7 CORE TRENCH EXCAVATION.

North	top	bottom	Ht	Mean D	
				Brogt. Formd	3338.54
3975	673.1	55.7	17.4		
				18.2	5 91.00
80	74.7	55.7	19.0		
80	76.0	68.2	7.8		
				11.15	10 111.50
90	82.7	68.2	14.5		
				16.45	9 148.05
99	86.4	68.0	18.4		
				16.1	1 16.10
A000	86.8	73.0	13.8		
				14.7	5 73.50
05	89.0	73.4	15.6		
				16.6	4 66.40
09	90.8	73.2	17.6		
				15.5	1 15.50
10	91.2	77.8	13.4		
				15.55	10 155.50
20	95.8	78.1	17.7		
				18.65	55 102.57
25.5	97.9	78.3	19.6		Formd 4118.66

40

North	top	bottom	Ht	Mean D	
				Brogt. Formd	4118.66
4025	697.9	678.3	19.6		
				20.7	45 93.15
30	700.0	678.2	21.8		
				23.65	10 236.50
40	03.5	78.0	25.5		
				26.55	3 79.65
43	05.6	78.0	27.6		
				24.25	1 24.25
44	06.3	85.4	20.9		
				22.95	6 137.70
50	10.5	85.5	25.0		
				25.5	4 102.00
54	11.6	85.6	26.0		
				24.1	1 24.10
55	11.8	89.6	22.2		
				22.8	5 114.00
60	13.2	89.8	23.4		
				25.6	10 256.00
70	18.0	90.2	27.8		
				Formd - 5186.01	

CORE TRENCH EXCAVATION

Stem 7

Stem 7	North	top	bottom	Ht	Mean D
					5186.01
4070	718.0	690.2	27.8	28.1	28.10
71	18.6	90.2	28.4	26.9	26.90
72	19.2	93.8	25.4	27.75	222.00
80	23.9	93.8	30.1	31.7	253.60
88	27.1	93.8	33.3	28.0	56.00
88	27.1	99.5	27.6	30.8	277.20
90	27.9	99.5	28.4	32.7	27.2
99	32.7	99.5	33.2	27.45	27.45
99	32.7	705.5	27.2	33.2	33.0
				42.1	36.3
				46.0	40.1
				49.9	44.0

Forwd 6077.26

North	top	bottom	Ht	Mean D
4150	754.4	705.9	48.5	6077.26
60	59.1	05.9	53.2	2423.50
60	62.9	05.9	57.0	58.55
66	66.0	05.9	60.1	61.25
70	68.1	05.7	62.4	63.45
75	70.0	05.5	64.5	64.3
70	70.0	05.9	64.1	64.4
70	70.0	05.3	64.7	64.65
70	70.0	05.4	64.6	64.55
70	70.0	05.5	64.5	64.55

Forwd 12127.85

CORE TRENCH EXCAVATION.

North	top	bottom	Ht.	Area	sq ft
0+41 ⁶	746.4	705.5	40.9	Brought Forward	12127.85
					25.15
+56 ³	15.4	06.0	9.4		14.7
					9.4
5+10 ogee =					3
+59 ³	15.4	06.0	9.4		28.20

N 3837 to N 4160 to Ogee Site - Total 12525.75

Trench 6' wide 6 x 12525.75 = 75154.50 cu ft
~~2782.87~~ 2783.50 cu yds.

SUMMARY OF CORE TRENCH EXCAVATION

Schedule Item 12

North 3334 to 3837

6' neat line and sloped top.

~~4,941.34~~
 4,943.54 Cubic yards

Schedule Item 7

North 2990 to 3334 6' neat line

1271.75 Cubic yards

North 3837 to 5+10 ogee 6' neat line

2783.50 Cubic yards

North 3015 to 3440 and 3790 to 4160 sloped top

Sloped section sched Item 7

North	Area	mean	dist	Cu. Ft.
3015	270			
		270	5	135.00
3020	270	< +		
30	110.35	?		
40	113.40	?		
50	111.38			
	112.00			
60	111.35			
	112.00			
70	112.00	x ^{nu}		
	98.53			
80	97.76			
90	87.66			

not found 7/17/34
20.

John D

CORE TRENCH EXCAV.

North. Area II'

3100 ~~74.35~~

10 ~~90.89~~

20 73.52

30 112.00 ✓

40 112.00 ✓

50 112.00 ✓

60 112.00 ✓

70 112.00

80 ~~103.46~~

90 112.00

3200 112.00

10 106.32 ✓

20 96.11 ✓

30 112.00 $2143.23 \times 10 = 21,432.30$

$112 \times 80 = 8,960$ " "

3310 112.00

20 105.65

30 ~~71.40~~
~~58.20~~ $190.75 \times 10 = 1,907.5$ " "

$69.45 \times 4 = 277.8$ " "

34 80.70

good

Sloped section

3334 38.13

$49.62 \times 6 = 297.72$ cu. ft.

40 61.12 ✓

50 20.10 ✓

60 0.00 ✓

70 19.87 ✓

80 0.00 ✓

90 8.30 ✓

3400 27.50 ✓

10 ~~32.28~~
~~32.71~~

20 9.15
8.86

30 23.65 ✓

40 59.08 $201.09 \times 10 = 2,010.9$ " "

good

CORE TRENCH EXCAV.

3790 100 ✓
 3800 64 ✓
 10 64 ✓
 20 33.47 ✓
 30 0.00 ✓
 37 0.00 211.47 x 10 = 2,114.7 cuft.

~~good~~

3840 45.6
 50 112.00
 60 112.00
 70 112.00
 80 106.40 ✓
 90 102.44 ✓
 3900 48.00
 102.14
 10 106.77

Sloped section

3920 107.67 ✓
 30 109.91 ✓
 40 112.00 ✓
 50 99.80 ✓
 60 73.35
 73.04
 70 112.00 ✓
 77.70
 80 70.00
 90 91.08
 86.00
 72.51
 A000 78.26
 10 90.90
 20 88.97
 30 104.10
 40 99.18
 50 103.05
 60 127.00
 70 101.40
 80 108.20
 90 120.30
 A100 107.10 2504.04 x 10 = 25,040.40
 4110 115.30 62 182.32

~~good~~

Cone Wall Concrete

Unformed
N 2992.5 to N 4160

CORE W

Unformed -

North top to
2992.5 ^{5/8/54} 69.5

94' 69.5'

95' 69.5'

3000' 69.5' 5

3000' 58.0' 5

01' 58.0' 5

05' 58.0' 5

2 92
7 20
5 3 50
2 2 45
20 00
17 65
58 30
23 45
47 80
16 1 20
5 29
17 4 20
69 60
18 75
60 15
14 35
16 75
120 60
148 80
43 80
19 65
96 80
127 80
49 00
152 40
13 55
48 30
74 20
109 60
67 80
81 30
67 20
15 05

Station
Back on
machine
xxx

Elev.
Elevation
by 6'

2.92

20

1.50

45

.00

Forwd 86.07

Cone Wall Concrete

Unfermed

N 29925 to N4160

	2	9	2
	7	2	0
5	3	5	0
	2	4	5
	2	0	0
	1	7	6
	5	8	3
	2	3	4
	4	7	8
1	6	1	2
		5	2
1	7	4	2
	6	9	6
	1	8	7
	6	0	1
	1	4	3
	1	6	7
1	2	0	6
1	4	8	8
	4	3	8
	1	9	6
	9	6	8
1	2	7	8
	4	9	0
1	5	2	4
	1	3	5
	4	8	3
	7	4	2
1	0	9	6
	6	7	8
	8	1	3
	6	7	2
	1	5	0

1 7 8 6 0
2 6 5 0
6 6 9 0
5 4 2
1 4 2 3 8
1 0 9 0 0
4 7 5 5
3 5 2 0
5 6 2 5
1 0 3 6 0
4 7 9 5
1 2 1 0 8 4 5
1 1 8 3 0
6 1 1 8 0
5 4 1 1 0
4 4 5 3 0
1 4 4 7 0
2 6 6 9 0
6 6 4 5 0
3 6 3 0
9 7 3 3 0
6 4 4 4 0
1 0 2 2 9 0
2 1 2 6 6 5
6 6 8 8 2
1 2 5 7 2 0
2 1 8 8 0
1 1 2 5 0
6 9 1 5
3 4 3 0
9 2 7 5
2 0 2 0
1 1 5 8 5
9 3 5 0
7 6 6 0
5 5 4 0
8 5 6 0
1 4 9 8 5
2 0 2 5
1 1 5 2 5
2 7 1 5
1 5 1 2 0
1 1 5 4 0
1 5 1 9 0
7 9 8 0
1 1 0 0 0
8 8 0 0
9 7 4 0
1 5 4 2 0
5 3 1 0
1 1 1 0 0
1 1 0 8 2 0
1 1 2 5 0
4 0 0 0
1 2 0 0 0
8 2 7 5
5 5 0 5
3 4 2 0
9 0 7 5
1 9 3 0

	7	0	0
	5	5	4
	8	5	6
1	4	9	8
	2	0	2
1	1	5	2
	1	2	7
	1	5	1
	1	5	4
	1	5	1
	7	9	8
	1	0	0
	8	8	0
	9	7	4
1	5	4	2
	5	3	1
1	1	1	1
1	1	0	8
1	1	1	2
	4	0	0
1	2	0	0
	8	2	7
	5	5	0
	3	4	2
	9	0	7
	1	9	5
1	5	5	6
	2	0	6
1	0	8	5
	5	0	3
1	9	2	0
2	0	1	6
	4	3	6
2	2	7	5
	9	6	0
1	3	7	7
1	1	5	3
1	1	1	2
2	0	4	0
	4	0	8
1	0	3	0
	2	0	8
	6	3	2
	6	7	8
	9	5	1
4	6	9	2
	1	5	4
	1	1	0
1	4	0	8
	1	0	9
	1	7	0
	2	6	7
	2	0	0
	5	2	5
	2	4	9
	2	2	3
	4	4	1
1	7	5	2
	5	2	3
1	5	3	7
1	2	1	8
	9	7	2
	9	7	0
1	6	8	6
	5	5	7
2	6	5	2

6320
6780
9510
469200
1154200
1110000
4080000
1109000
1170040
26750
200500
522500
249500
223500
241600
175200
15237
15375
121800
97200
97200
168600
155700
265200
146800
128000
39000
73800
137600
33200
210000
22740
22325
22690
11515
87500
13900
93600
20900
98000
120000
14735
11975
104500
154900
142500
46600
230000
3625
7140
173500
175000
3795
9795
271600
17600
7712
181200
87600
156000
141000
25800
7670
4550
24990
1405

1 4 7 3 5
1 1 9 4 7 5
1 0 4 4 5 0
1 5 4 4 9 0
1 4 2 5 0 0
1 4 6 6 0 0
2 3 0 0 0 0
3 6 2 5
7 1 4 0
1 7 3 5 0 0
1 7 5 0 0 0
3 7 9 5
9 7 9 5
2 7 1 6 0
1 7 7 1 2
1 8 1 2 0
1 8 7 6 0
1 5 6 0 0
1 4 1 0 0
2 2 5 8 0
7 6 7 0
4 5 5 0
2 4 9 9 0
1 4 3 0 5
7 3 8 0
8 8 1 2 0
3 3 1 2 0
8 2 2 8 0
1 2 5 1 0
6 4 1 5 0
3 8 1 0
1 6 8 0
1 4 5 0
1 6 7 3 0
1 1 5 7 0
1 1 0 2 5
1 5 9 2 0
7 2 0 0

20 30
 1 65 00
 1 14 40
 1 12 40
 2 41 50
 1 14 00
 1 29 60
 1 19 36
 1 80 00
 1 79 50
 1 02 25
 1 70 10
 5 66 00
 2 74 00
 2 73 20
 9 14 40
 3 52 80

2 5 9 4 8 3 9 ^{height}
 6 ^{width}
 15 5 6 9 0 . 3 4 ^{avg ft}

3 8 1 6 0
 6 0 6 1 0
 9 3 1 4 8
 3 4 5 0 6
 6 4 1 5 0
 5 0 5 9 9
 3 4 1 1 7 3 T

Unformed 8/4/60 to

No 5 + 10.

7 6 6 0
 5 5 4 0
 8 5 6 0
 1 4 9 8 5
 1 2 0 2 5
 1 1 5 2 5
 1 2 7 1 5
 1 5 1 2 0
 1 5 4 0 0
 1 5 1 9 0
 7 9 8 0
 1 0 0 0
 8 8 0 0
 9 7 4 0
 1 5 4 2 0
 5 3 1 0
 1 1 1 0 0
 1 0 8 2 0
 1 1 2 5 0
 4 0 0 0

addition
check on
machine
HWA

CORE WALL CONCRETE

Unformed - schedule item 20

North	top	bottom	height	mean D	area	area
					area	area
29.92	69.5	69.5	0.0	1.95	18	2.92
94	69.5	65.6	3.9	7.2	1	7.20
95	69.5	59.0	10.5	10.7	5	53.50
3000	69.5	58.6	10.9			
3000	58.0	58.0	0.0	2.45	1	2.45
01	58.0	53.1	4.9			
05	58.0	52.9	5.1	5.0	4	20.00
For wd						86.07

Core Elev.
longitudinal
to L x by G

Unformed concrete in Core wall
Schedule item 20

North top bottom height mean D
Brought Forwd 39.5 x
86.07

North	top	bottom	height	mean D	
3005	58.0	40.6	17.4		
				17.65	17.65
06	58.0	40.1	17.9		
06	58.0	29.7	28.3		
				29.15	58.30
08	58.0	28.0	30.0		
08	51.0	28.0	23.0		
				23.45	23.45
09	51.0	27.1	23.9		
				23.9	47.80
11	51.0	27.1	23.9		
				24.8	161.20
FB 443 17.5	51.0	25.3	25.7		
				26.45	5.29
17.7	51.0	23.8	27.2		
				27.65	174.20
24	51.0	22.9	28.1		
24	40.0	22.9	17.1		
				17.4	69.60
28	40.0	22.3	17.7		

Forwd - 643.56

North top El. bottom height Mean D
Brought Forwd 3028
740.0 22.3 17.5
Longitudinal Area ft²
643.56

North	top El.	bottom	height	Mean D	Longitudinal Area ft ²
3028	740.0	22.3	17.5		
				18.75	18.75
29	40.0	20.2	19.8		
				20.05	60.15
32	40.0	19.7	20.3		
32	34.0	19.7	14.3		
				14.35	14.35
33	34.0	19.6	14.4		
				16.75	16.75
34	34.0	14.9	19.1		
				20.1	120.60
40	34.0	12.9	21.1		
40	30.0	12.9	17.1		
				18.6	148.80
48	30.0	09.9	20.1		
48	24.0	09.9	14.1		
				14.6	43.80
51	24.0	08.9	15.1		
				19.65	19.65
52	24.0	09.9	24.2		

Forwd 1086.41

Unfinished Concrete in Core Wall
Schedule Item 20

North	top	bottom	height	Mean	0	39 ft
						Brought Forwd 1086.41
3052	724.0	699.8	24.2			
			24.2	4		96.80
56	24.0	99.8	24.2			
56	18.0	99.8	18.2			
			21.3	6		127.80
62	18.0	93.6	24.4 24.4			
			24.5	2		49.00
64	18.0	93.4	24.6			
64	12.0	93.4	18.6			
			19.05	8		152.40
72	12.0	92.5	19.5			
72	06.0	92.5	13.5			
73			13.55	1		13.55
73	06.0	92.4	13.6			
			16.1	3		48.30
76	06.0	87.4	18.6			
			18.55	4		
80	06.0	87.5	18.5			
						74.20

✓ Forwd 1648.46

North	top	bottom	height	Mean	0	39 ft
						Brought Forwd 1648.46
3080	700.0	687.5	12.5			
			13.7	8		109.60
88	00.0	85.1	14.9			
88	94.0	85.1	08.9			
			11.3	6		67.80
94	94.0	80.3	13.7			
			13.55	6		81.30
3100	94.0	80.6	13.4			
			16.8	4		67.20
04	94.0	73.8	20.2			
04	88.0	73.8	14.2			
			15.05	1		15.05
05	88.0	72.1	15.9			
			16.3	7		114.10
12	88.0	71.3	16.7			
12	84.0	71.3	12.7			
			13.1	6		78.60
18	84.0	70.5	13.5			
			13.25	2		26.50
20	84.0	71.0	13.0			

✓ Forwd 2208.61

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	598+
			Brought	Forwd	2208.61
3120	678.0	671.0	07.0		
			6.9	1	6.90
21	78.0	71.2	06.8		
FB 408-63	21.5	78.0	63.1	14.9	10.85 5 5.42
					76.75 85 142.38
30	78.0	59.4	18.6		
					19.90 6 119.40
36	78.0	56.8	21.2		
36	72.0	56.8	15.2		
					15.85 3 47.55
39	72.0	55.5	16.5		
					17.6 2 35.20
41	72.0	53.3	18.7		
					18.75 3 56.25
44	72.0	53.2	18.8		
44	66.0	53.2	12.8		
					12.95 8 103.60
52	66.0	52.9	13.1		
					Forwd 2725.31

North	top	bottom	height	mean D	598+
			Brought	Forwd	2725.31
3152	6620	6529	9.1		
					9.95 5 49.75
57	62.0	51.2	10.8		
					10.95 11 120.45
68	62.0	50.9	11.1		
68	60.0	50.9	9.1		
					9.15 2 18.30
70	60.0	50.8	9.2		
					10.3 6 61.80
76	60.0	48.6	11.4		
76	54.0	48.6	5.4		
					10.2 5 51.00
81	54.0	39.0	15.0		
					15.1 3 45.30
84	54.0	38.8	15.2		
84	48.0	38.8	9.2		
84.5	48.0	38.8	9.2		
					9.8 14.70
86	48.0	37.6	10.4		
					13.45 2 26.90
88	48.0	31.5	16.5		
					Forwd 3118.11

Unfirmed Concrete in Core Wall

North	top	bottom	height	mean D	Sq ft
3188	48.0	31.5	16.5		3118.11
				16.6	4 66.40
92	48.0	31.3	16.7		
92	42.0	31.3	10.7		
				10.75	2 21.50
94	42.0	31.2	10.8		
				12.1	3 36.30
97	42.0	28.6	13.4		
				13.9	7 97.30
3204	42.0	27.6	14.4		
				16.1	4 64.40
08	42.0	24.2	17.8		
08	38.0	24.2	13.8		
				14.2	1 14.20
09	38.0	23.4	14.6		
				14.7	7 102.90
16	38.0	23.2	14.8		
Forwd -					3521.11

North	top	bottom	height	mean D	Sq ft
3216	34.0	23.2	10.8		3521.11
				10.8	2 21.60
18	34.0	23.2	10.8		
				12.65	1 12.65
19	34.0	19.5	14.5		
				14.85	5 66.82
				23.5	3 408.63
				15.35	5 7.67
24	28.0	12.5	15.5		
				15.65	8 125.20
32	28.0	12.2	15.8		
32	28.0	01.3	26.7		
				27.35	8 218.80
40	28.0	00.0	28.0		
40	22.0	00.0	22.0		
				22.5	5 112.50
45	22.0	99.0	23.0		
				23.05	3 69.15
48	22.0	98.9	23.1		
Forwd					4155.50

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	Sq. ft
3248	616.0	598.9	17.1	Brought Forward	4155.50
				17.15	2 34.30
50	16.0	98.8	17.2		
				18.55	5 92.75
55	16.0	96.1	19.9		
				20.2	1 20.20
56	16.0	95.5	20.5		
56	10.0	95.5	14.5		
				16.55	7 115.85
63	10.0	91.4	18.6		
				18.7	5 93.50
68	10.0	91.2	18.8		
				19.15	4 76.60
72	10.0	90.5	19.5		
72	04.0	90.5	13.5		
				13.85	4 55.40
76	04.0	89.8	14.2		
76	04.0	83.0	21.0		
				21.4	4 85.60
80	04.0	82.2	21.8		
				Forward	4729.70

North	top	bottom	height	mean D	Sq. ft
3280	598.0	82.2	15.8	Brought Forward	4729.70
				16.65	9 149.85
89	98.0	80.5	17.5		
				20.25	1 20.25
90	98.0	75.0	23.0		
				25.05	5 125.25
95	98.0	70.9	27.1		
				27.15	1 27.15
96	98.0	70.8	27.2		
96	92.0	70.8	21.2		
				21.6	7 151.20
3303	92.0	70.0	22.0		
				22.0	7 154.00
10	92.0	70.0	22.0		
				21.7	7 151.90
17	92.0	70.6	21.4		
				26.6	3 79.80
17	92.0	66.0	26.0		
				27.2	Forward: 5589.10
20	92.0	64.8	27.2		

Unformed Concrete in Core Wall

North	top	bottom	height	mean	D	39 ft. ✓	North	top	bottom	height	mean	D	39 ft.
			Brought	Forwd		5589.10				Brought	Forwd		6353.50
3320 ✓	86.0 ✓	64.8 ✓	21.2 ✓				3352 ✓	70.0 ✓	55.8 ✓	14.2 ✓			
				22.0	4	88.00					15.0	8	120.00
24 ✓	86.0 ✓	63.2 ✓	22.8 ✓				60 ✓	70.0 ✓	54.2 ✓	15.8 ✓			
				24.35	4	97.40					16.55	5	82.75
28 ✓	86.0 ✓	60.1 ✓	25.9 ✓				65 ✓	70.0 ✓	52.7 ✓	17.3 ✓			
				25.7	6	154.20					18.35	3	55.05
34 ✓	86.0 ✓	60.5 ✓	25.5 ✓				68 ✓	70.0 ✓	50.6 ✓	19.4 ✓			
				26.55	2	53.10	68 ✓	67.0 ✓	50.6 ✓	16.4 ✓			
36 ✓	86.0 ✓	58.4 ✓	27.6 ✓								17.1	2	34.20
				27.75	4	111.00	70 ✓	67.0 ✓	49.2 ✓	17.8 ✓			
40 ✓	86.0 ✓	58.1 ✓	27.9 ✓								18.15	5	90.75
40 ✓	86.0 ✓	59.6 ✓	26.4 ✓				75 ✓	67.0 ✓	48.5 ✓	18.5 ✓			
				27.05	4	108.20					19.3	1	19.30
44 ✓	86.0 ✓	58.3 ✓	27.7 ✓				76 ✓	67.0 ✓	46.9 ✓	20.1 ✓			
44 ✓	76.0 ✓	58.3 ✓	17.7 ✓				76 ✓	60.0 ✓	46.9 ✓	13.1 ✓			
				18.75	6	112.50					19.45	8	155.60
50 ✓	76.0 ✓	56.2 ✓	19.8 ✓				84 ✓	60.0 ✓	34.2 ✓	25.8 ✓			
				20.0	2	40.00	84 ✓	54.0 ✓	34.2 ✓	19.8 ✓			
52 ✓	76.0 ✓	55.8 ✓	20.2 ✓								20.6	1	20.60
				Forwd		6353.50	85 ✓	54.0 ✓	32.6 ✓	21.4 ✓	Forwd		6931.75

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	Sq. ft. Brought Forwd	North	top	bottom	height	mean D	Sq. ft. Brought Forwd
3385	554.0	532.6	21.4	21.7	5 108.50	3424	546.0	523.6	22.4	22.95	6 137.70
90	54.0	32.0	22.0			30	46.0	22.5	23.5		
90	54.0	29.0	25.0							25.55	6 153.30
				25.15	2 50.30	36	46.0	18.4	27.6		
92	54.0	28.7	25.3							28.2	4 112.80
92	52.0	28.7	23.3			40	46.0	17.2	28.8		
				24.0	8 192.00	40	42.0	17.2	24.8		
3400	52.0	27.3	24.7							25.5	8 204.00
				25.2	8 201.60	48	42.0	15.8	26.2		
08	52.0	26.3	25.7			48	36.0	15.8	20.2		
08	48.0	26.3	21.7							20.4	2 40.80
				21.8	2 43.60	50	36.0	15.4	20.6		
10	48.0	26.1	21.9							20.6	5 103.00
				22.15	10 227.50	55	36.0	15.4	20.6		
20	48.0	24.4	23.6							20.8	1 20.80
				24.0	4 96.00	56	36.0	15.0	21.0		
24	48.0	23.6	24.4								
											Forwd 8623.65
											Forwd - 7851.25

Unformed Concrete in Core Wall.

North	top	bottom	height	mean D	30 ft x
3456	530.0	515.0	15.0	Brought Forwd - 8623.65	
				15.8	4 63.20
60	30.0	13.4	16.6		
				3.9	16.95 4 67.80
64	30.0	12.7	17.3		
64	28.0	12.7	15.3		
				15.85	6 95.10
70	28.0	11.6	16.4	Forwd to 8849.75	
				5.4	
70	28.0	03.4	24.6		
				12.3	
80	28.0	03.2	24.8		
90	28.0	02.3	25.7		
3500	28.0	01.9	26.1		
10	28.0	01.8	26.2		
20	28.0	01.6	26.4		
30	28.0	01.0	27.0		
40	28.0	00.5	27.5		
50	28.0	00.8	27.2		
60	28.0	01.0	27.0		
70	28.0	01.4	26.6		

Forwd - 276.8 x

North	top	bottom	height	mean D	30 ft x
3580	528.0	501.7	26.3	Forwd 276.8 x	8849.75
90	28.0	01.7	26.3		
3600	28.0	02.1	25.9		
10	28.0	02.5	25.5		
20	28.0	02.8	25.2		
30	28.0	02.8	25.2		
40	28.0	02.9	25.1		
				12.9	
50	28.0	02.2	25.8	469.2	10 4897.00
				25.7	6 154.20
56	28.0	02.4	25.6		
56	30.0	02.4	27.6		
				27.5	4 110.00
60	30.0	02.6	27.4		
				13.7	
70	30.0	02.3	27.7		
80	30.0	02.7	27.3		
80	32.0	02.7	29.3		
90	32.0	03.0	29.0		
				13.8	
3700	32.0	04.4	27.6	140.8	10 1408.00
				27.25	4 109.00
04	32.0	05.1	26.9	Forwd -	15322.95

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	Sq ft	North	top	bottom	height	mean D	Sq ft
3704	34.0	05.1	28.9	28.4	15322.95	3760	38.0	16.8	21.2	20.95	16702.65
10	34.0	06.1	27.9	26.75	170.40	625	38.0	17.3	20.7	20.5	52.37
20	34.0	08.4	25.6	25.0	267.50	70	38.0	17.7	20.3	20.3	153.75
28	34.0	09.6	24.4	24.9	200.00	76	38.0	17.7	20.3	20.3	121.80
28	36.0	09.6	26.4	26.25	52.50	76	42.0	17.7	24.3	24.3	97.20
30	36.0	09.9	26.1	24.9	249.00	80	42.0	17.7	24.3	24.25	97.00
40	36.0	12.3	23.7	22.35	223.50	84	42.0	17.8	24.2	28.1	168.60
50	36.0	15.0	21.0	20.8	41.60	84	46.0	17.8	28.2	28.1	168.60
52	36.0	15.4	20.6	20.8	41.60	90	46.0	18.0	28.0	27.85	55.70
52	38.0	15.4	22.6	21.9	175.20	92	46.0	18.3	27.7	27.85	55.70
60	38.0	16.8	21.2	21.9	175.20					Forwd.	17449.07

Forwd. 16702.65

Unformed Concrete in Core Wall

North	top	bottom	height	mean	D	sq ft
				Brought Forwd		
3792	52.0	18.3	33.7		17449.07	
				33.15	8	265.20
3800	52.0	19.4	32.6			
3800	60.0	19.4	40.6			
				36.7	4	146.80
04	60.0	27.2	32.8			
				32.0	4	128.00
08	60.0	28.8	31.2			
08	68.0	28.8	39.2			
				39.0	1	39.00
09	68.0	29.2	38.8			
				36.9	2	73.80
11	68.0	33.0	35.0			
				34.4	4	137.60
15	68.0	34.2	33.8			
				33.20	1	33.20
16	68.0	35.4	32.6			

Forwd ✓ 18272.67

North	top	bottom	height	mean	D	sq ft
				Brought Forwd		
3816	74.0	35.4	38.6			18272.67
				35.00	6	210.00
22	74.0	42.6	31.4			
				27.40	1	27.40
23	74.0	50.6	23.4			
				23.25	1	23.25
24	74.0	50.9	23.1			
24	78.0	50.9	27.1			
				26.9	1	26.90
25	78.0	51.3	26.7			
25	78.0	58.7	19.3			
				16.45	7	115.15
32	78.0	64.4	13.6			
32	84.0	64.4	19.6			
				17.5	5	87.50
37	84.0	68.6	15.4			
38	84.0	71.6	12.4			
				13.9	1	13.90
				11.7	8	93.60
46	84.0	73.0	11.0			
				10.45	2	20.90
48	84.0	74.1	9.9			

Forwd 18891.27

FB
38321

FB
38322

Unformed Concrete in Core Wall

North	top	bottom	height	mean	D	So ft
						Forward
38A8	590.0	574.1	15.9			18891.27
				14.0	7	98.00
55	90.0	77.9	12.1			
				12.0	1	12.00
56	90.0	78.1	11.9			
56	600.0	78.1	21.9			
				21.05	7	147.35
63	00.0	79.8	20.2			
				19.75	1	19.75
64	00.0	80.7	19.3			
64	04.0	80.7	23.3			
				20.9	5	104.50
69	04.0	85.5	18.5			
				18.3	3	54.90
72.0	04.0	85.9	18.1			
72.0	10.0	85.9	24.1			
				23.75	6	142.50
78	10.0	86.6	23.4			
				23.3	2	46.60
80	10.0	86.8	23.2			
				Forward		19516.87

North	top	bottom	height	mean	D	So ft
						Forward
3880	6.16.0	86.8	29.2			19516.87
				28.75	8	230.00
88	16.0	87.7	28.3			
88	24.0	87.7	36.3			
				36.25	1	36.25
89	24.0	87.8	36.2			
				35.7	2	71.40
91	24.0	88.8	35.2			
				34.75	5	173.50
96	24.0	89.8	34.2			
96	34.0	89.8	44.2			
				43.75	4	175.00
3900	34.0	590.7	43.3			
				37.95	1	37.95
01	34.0	601.4	32.6			
				32.65	3	97.95
04	34.0	01.3	32.7			
				Forward		20338.92

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	Sq ft x
3904 ✓	40.0	01.3	38.7		20338.92
				38.8	7 271.60
11 ✓	40.0	01.1	38.9		
				35.2	05 17.60
11 ⁵ ✓	40.0	08.5	31.5		
				30.85	25 77.12
14 ✓	40.0	09.8	30.2		
				30.2	6 181.20
20 ✓	40.0	09.8	30.2		
20 ✓	40.0	15.7	24.3		
				21.9	4 87.60
24 ✓	40.0	20.5	19.5		
				19.5	8 156.00
32 ✓	40.0	20.5	19.5		
32 ✓	40.0	28.1	11.9		
				11.75	12 141.00
44 ✓	40.0	28.4	11.6		

Formd ✓ 21271.04

North	top	bottom	height	mean D	Sq ft x
3944 ✓	50.0	28.4	21.6		21271.04
				17.2	15 25.80
45 ⁵ ✓	50.0	37.2	12.8		
				11.8	65 76.70
52 ✓	50.0	39.2	10.8		
52 ✓	64.0	39.2	24.8		
				22.75	2 45.50
54 ✓	64.0	43.3	20.7		
				17.85	14 249.90
68 ✓	64.0	49.0	15.0		
				14.05	1 14.05
69 ✓	64.0	50.9	13.1		
				12.3	6 73.80
75 ✓	64.0	52.5	11.5		
75 ✓	64.0	55.7	8.3		
				8.3	1 8.30
76 ✓	64.0	55.7	8.3		

Formd - 21,765.09

Unformed Concrete in Core Wall

North	top	bottom	height	mean	D	Sq ft. x
3976	76.0	55.7	20.3			21765.09
				20.3	4	81.20
80	76.0	55.7	20.3			
80	76.0	68.2	7.8			
				7.8	4	31.20
84	76.0	68.2	7.8			
84	82.0	68.2	13.8			
				13.8	6	82.80
90	82.0	68.2	13.8			
99	82.0	68.0	14.0	13.9	9	125.10
4000	82.0	73.0	9.0	11.5	1	11.50
4000	86.0	73.0	13.0			
				12.8	5	64.00
05	86.0	73.4	12.6			
				12.7	3	38.10
08	86.0	73.2	12.8			
08	90.0	73.2	16.8			
				16.8	1	16.80
09	90.0	73.2	16.8			
Forwd-						22215.79

FB. 5
441.5

North	top	bottom	height	mean	D	Sq ft. x
4009	90.0	73.2	16.8			22215.79
				14.5	1	14.50
10	90.0	77.8	12.2			
				11.95	14	167.30
24	90.0	78.3	11.7			
24	94.0	78.3	15.7			
				15.7	1	15.70
25	94.0	78.3	15.7			
				15.75	7	110.25
32	94.0	78.2	15.8			
32	98.0	78.2	19.8			
				19.9	8	159.20
40	98.0	78.0	20.0			
40	102.0	78.0	24.0			
				24.0	3	72.00
43	02.0	78.0	24.0			
				20.3	1	20.30
44	02.0	85.4	16.6			
				16.5	10	165.00
54	02.0	85.6	16.4			
Forwd						22940.04

Unformed Concrete in Core Wall

North	top	bottom	height	mean D	Sq ft
4054	102.0	685.6	16.4	14.4	22940.04
55	02.0	89.6	12.4	12.4	14.40
56	02.0	89.6	12.4	12.4	12.40
56	06.0	89.6	16.4	16.1	241.50
71	06.0	90.2	15.8	14.0	14.00
72	06.0	93.8	12.2	16.2	129.60
72	10.0	93.8	16.2	24.2	193.60
80	10.0	93.8	16.2	24.2	193.60
80	18.0	93.8	24.2	22.5	180.00
88	18.0	93.8	24.2	22.5	180.00
88	22.0	99.5	22.5	22.5	180.00
96	22.0	99.5	22.5		

Forward 23725.54

North	top	bottom	height	mean D	Sq ft
4096	26.0	99.5	26.5	26.5	23725.54
99	26.0	99.5	26.5	26.5	79.50
99	26.0	705.5	20.5	20.45	102.25
4104	26.0	05.6	20.4	20.4	
04	34.0	05.6	28.4	28.35	170.10
10	34.0	05.7	28.3	28.3	56.60
12	34.0	05.7	28.3	28.3	
12	40.0	05.7	34.3	34.25	274.00
20	40.0	05.8	34.2	34.15	273.20
28	40.0	05.9	34.1	34.1	
28	44.0	05.9	38.1	38.1	
52	44.0	05.9	38.1	38.1	914.40

Forward 25595.59

Unformed Concrete in Core Wall.

North	Top	Bottom	height	Mean	Dist	Sq Ft
		Brought	+ Forward			
4152 ✓	50.0	05.9	44.1		255	95.59
				44.1	8	352.80
60 ✓	50.0	05.9	44.1	59 ft	✓	25948.39
Total Sp. N 2992.5 to N 4160 Page 46-61						
60	69.5	05.9	63.6			
				63.6	6	381.60
66 ✓	69.5	05.9	63.6			
				63.8	9.5	606.10
0+00±	69.5	05.5	64.0			
75 ^E				63.8	146	931.48
0+14 ^E	69.5	05.9	63.6			
				63.9	5.4	345.06
+20 ✓	69.5	05.3	64.2			
				64.15	10	641.50
+30 ✓	69.5	05.4	64.1			
				64.05	79	505.99
+37 ⁹	69.5	05.5	64.0			
				✓	✓	✓
					3,411.73	

Total N 4160 to 0+37.9

Back line of spillway parapet

Remainder of item to core calculated

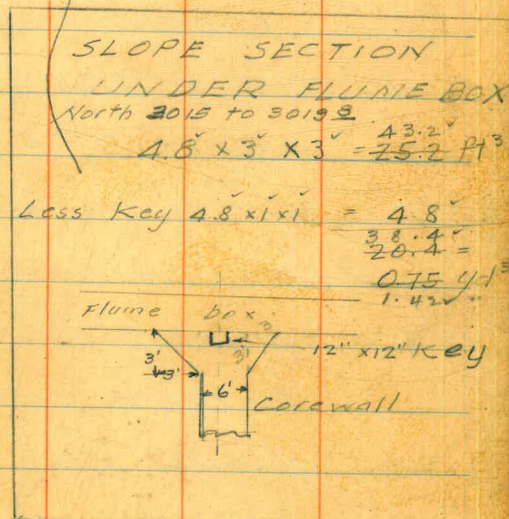
in W. end spillway warped section quantities
(See page 66)

Width of Trench

$$155,690.34 \text{ Cu ft} = 5766.31 \text{ Cu Yds}$$

$$= 756,762.96 + \text{At flume } 1.42$$

$$\text{Total Unformed Concrete N 2992.5 to N 4160} = 5767.73$$



$$\times 6 = 20,470.38 \text{ cubic feet}$$

$$768.16 \text{ cubic yards}$$

$$758.16 \text{ " " "}$$

CORE WALL CONCRETE
Formed - sched. item 21

18 inch wall

North 3000 to 3008 ^{6.5' high} 6.5' high
 $8 \times 6.5 \times 1.5 = 78.00$ Cubic Feet

North 3008 to 3016 8' high
 $8 \times 8 \times 1.5 = 96.00$

North 3016 to 3024 8' high
 $8 \times 8 \times 1.5 = 96.00$

North 3024 to 3448 15' high
 $424 \times 15 \times 1.5 = 9540.00$

North 3448 to 3456 18' high
 $8 \times 18 \times 1.5 = 216.00$

North 3456 to 3464 24' high
 $8 \times 24 \times 1.5 = 288.00$

North 3464 to 3656 26' high
 $192 \times 26 \times 1.5 = 7488.00$

North 3656 to 3680 24' high
 $24 \times 24 \times 1.5 = 864.00$

18666.00

North 3680 to 3704 22' high

$24 \times 22 \times 1.5 = 792.00$

North 3704 to 3728 20' high

$24 \times 20 \times 1.5 = 720.00$

North 3728 to 3752 18' high

$24 \times 18 \times 1.5 = 648.00$

North 3752 to 3776 16' high

$24 \times 16 \times 1.5 = 576.00$

North 3776 to 3944 15' high

$168 \times 15 \times 1.5 = 3780.00$

North 3944 to 3952 21' high

$8 \times 21 \times 1.5 = 252.00$

North 3952 to 4104 15' high

$152 \times 15 \times 1.5 = 3420.00$

North 4104 to 4112 13' high

$8 \times 13 \times 1.5 = 156.00$

North 4112 to 4120 7' high

$8 \times 7 \times 1.5 = 84.00$

10428.00

Core Wall Concrete - formed.

North 4120 to 4128 13' high

$$8 \times 13 \times 1.5 = 156.00$$

North 4128 to 4136 9' high

$$8 \times 9 \times 1.5 = 108.00$$

North 4136 to 4152 15' high

$$16 \times 15 \times 1.5 = 360.00$$

North 4152 to 4160 12' high

$$8 \times 12 \times 1.5 = 144.00$$

Transition section

North 3000 to 4160

$$1160 \times 16.25 = 18,850.00$$

Less Space occupied by Flume Box 4.5' high } - 74.00
 7.3015 - 7.3019.8 = 4.8 Long

48,638.00 Cubic Ft.

Total Formed N 3000 - N 4160. = 1,801.40 CU. Yd.

SUMMARY OF CORE WALL CONCRETE.

Unformed schedule Item 20

North 2992⁵ to 4160

5,767.73 Cubic yards

North 4160 to 0+37⁹

~~758.16~~
~~768.16~~ Cubic yards

Warped west end of spillway ogee

748.66 Cubic yards

Formed schedule Item 21

North 3000 to 4160

1,801.40 Cubic yards

F 13216
46-61

Total Cap 2986.00
 = 1100.00

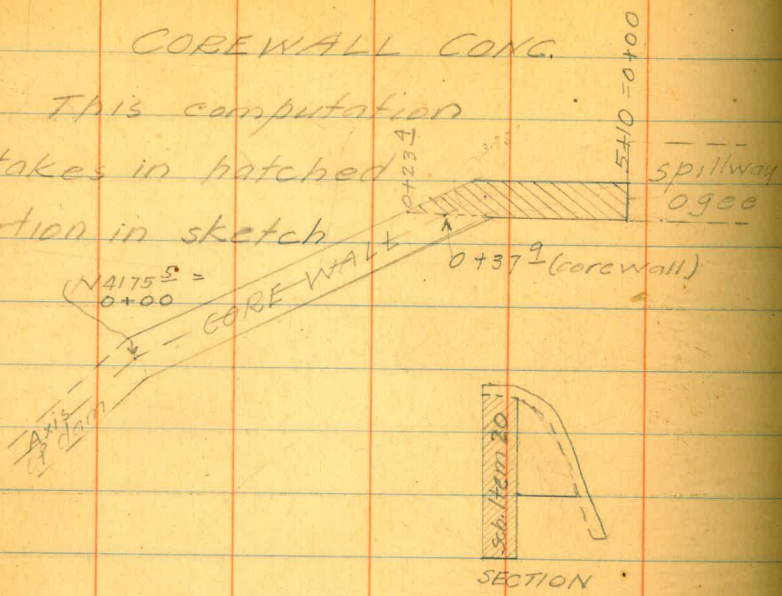
F 13
416
62-65

18776.00
 695.00

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both pages. The right page has the number '64' written in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and faint smudges.

COREWALL CONG.

This computation takes in hatched portion in sketch



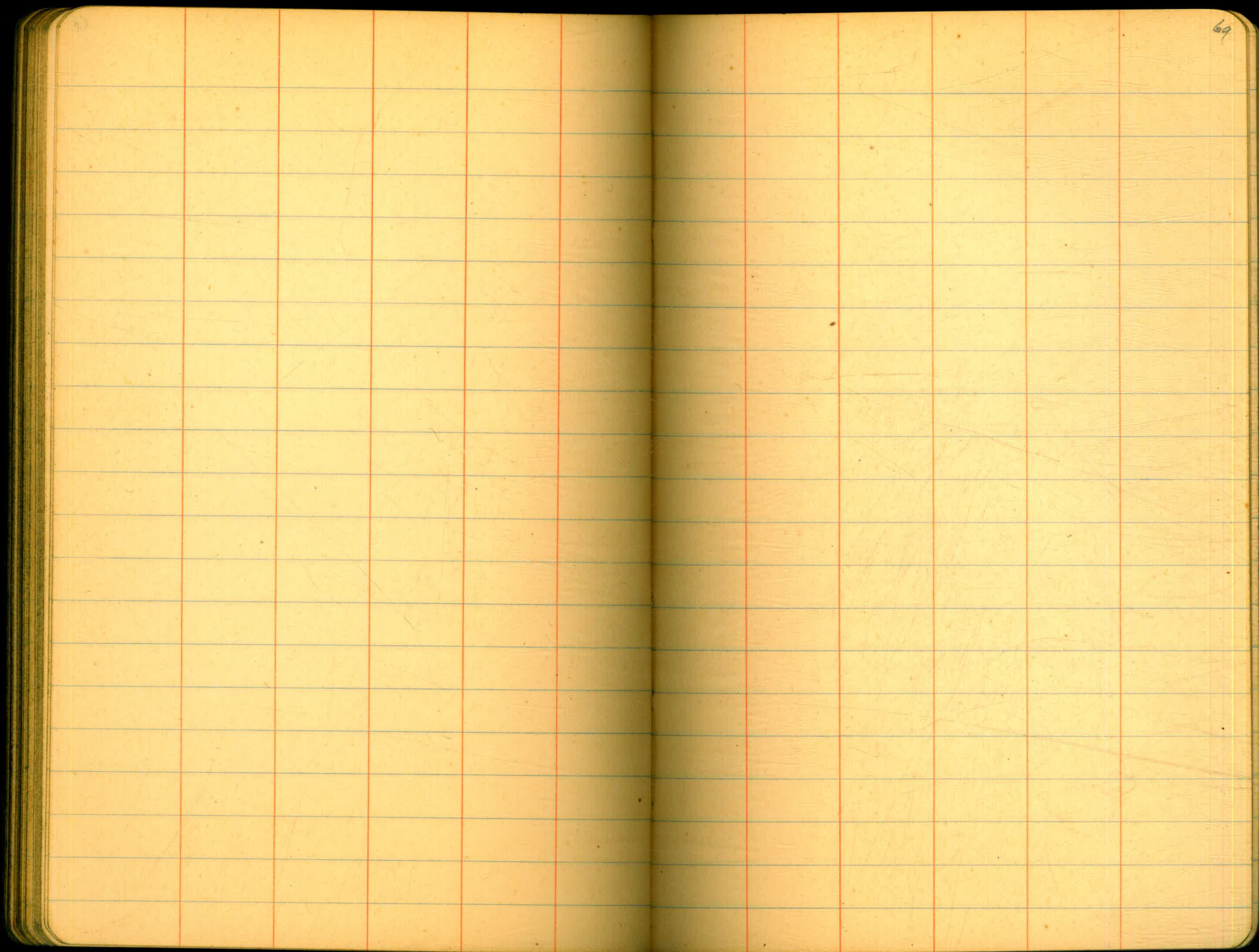
Sta	Area	mean dist	cu. ft.
0+00	231.7		
		250.25 ✓	3 ✓ 750.75 ✓
0+03	268.8		
		278.3 ✓	3 ✓ 834.90 ✓
0+06	287.8		
		293.3 ✓	2 ✓ 586.60 ✓
0+08	298.8		
		304.85 ✓	2 ✓ 609.70 ✓
0+10	310.9		
		316.45 ✓	2 ✓ 632.90 ✓
0+12	322.0		
		328.75 ✓	2 ✓ 656.50 ✓
0+14	334.5		
		339.95 ✓	2 ✓ 679.90 ✓
0+16	345.4		
		360.3 ✓	1 ³ / ✓ 468.39 ✓
0+17 ³	375.2		
		378.1 ✓	1 ² / ✓ 453.72 ✓
0+18 ⁵	381.0		

Schedule Item 20 unformed in warped west end of spillway crest areas of sections measured with planimeter from plotted cross sections

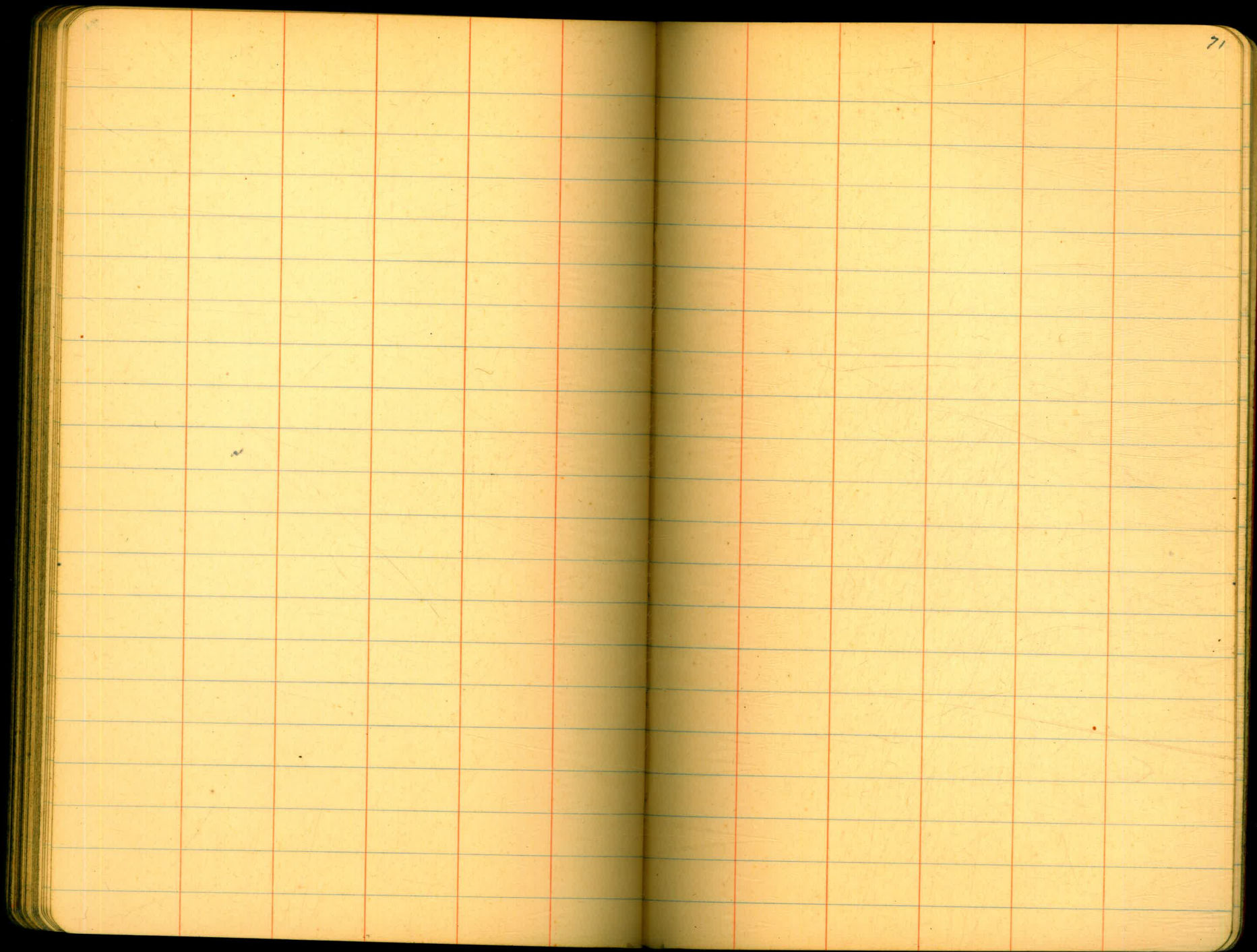
5673.36 ✓

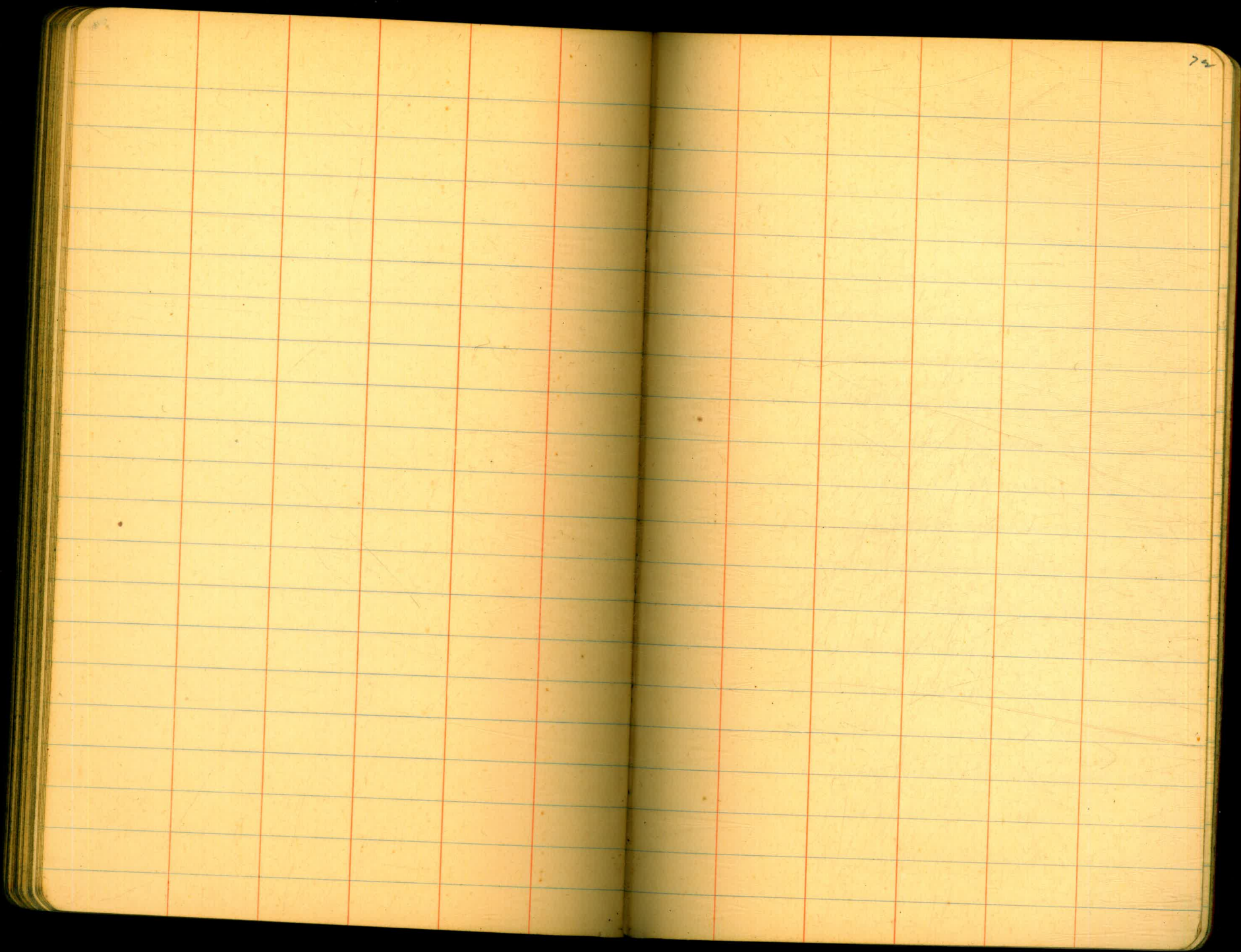
sta	Area	mean	dist	Cu. Ft.
0+18 ^S	381			5673.36
		381.0 [!]	0 ⁰ ✓	228.60✓
0+19 ^L	381			
		250.82✓	29 [!]	727.38✓
0+22	120.65			
		60.32✓	14 [!]	84.45✓
0+23 ^A	0.0			
				6713.79✓ =
				748.66 Cu. Yd.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page has the number '48' printed in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and small spots.

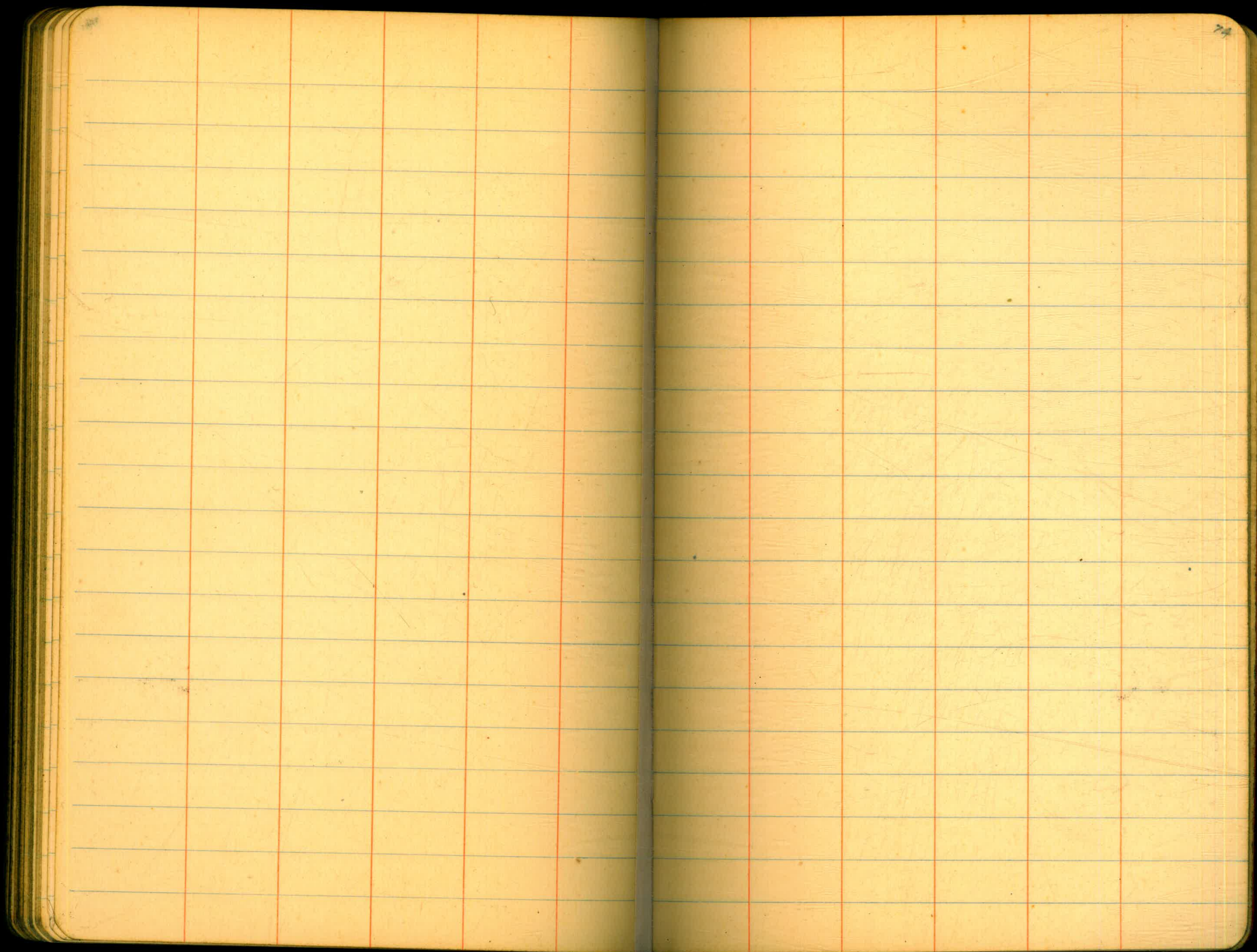


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '70' in the top right corner. The notebook is bound in the center, and the pages are otherwise blank.



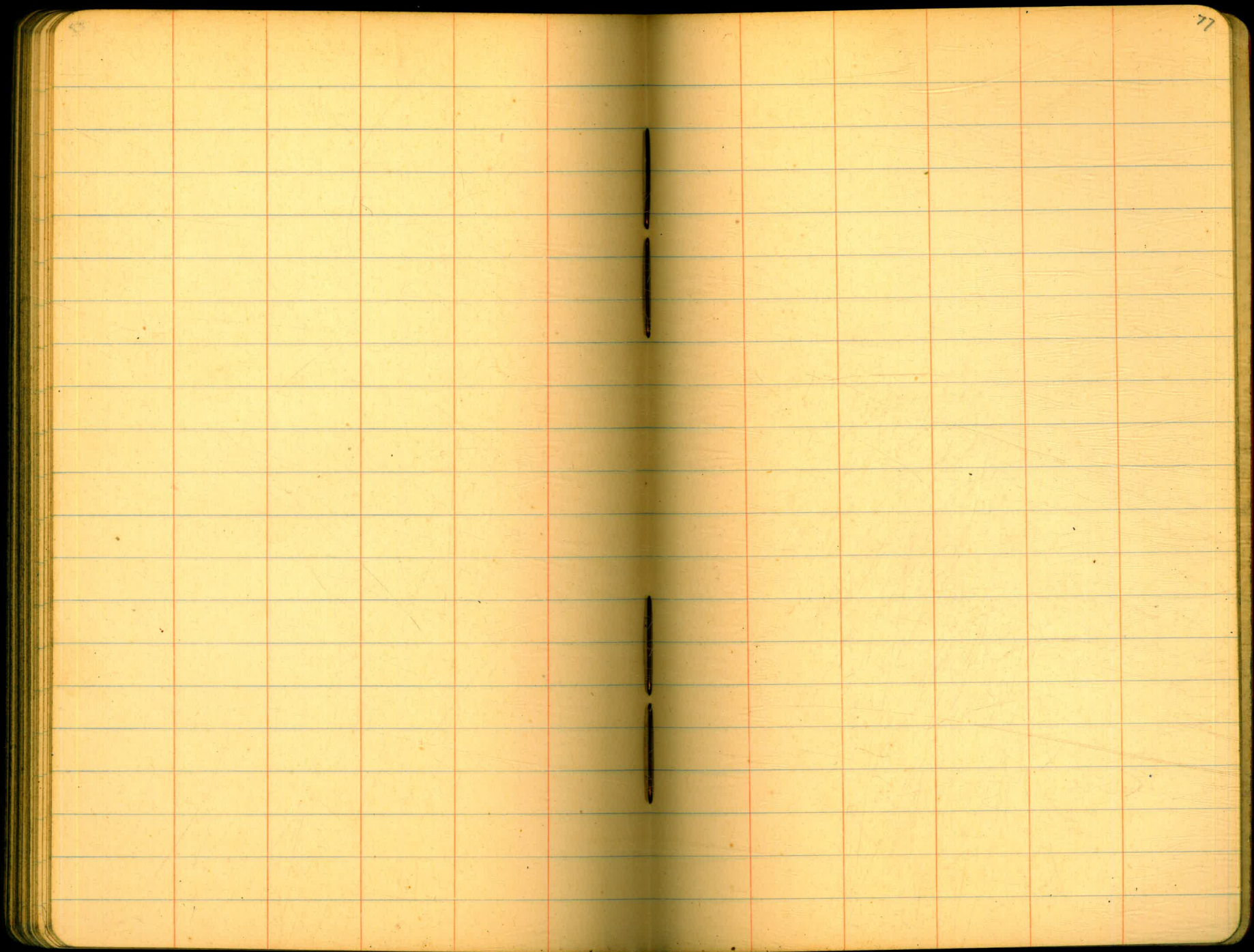


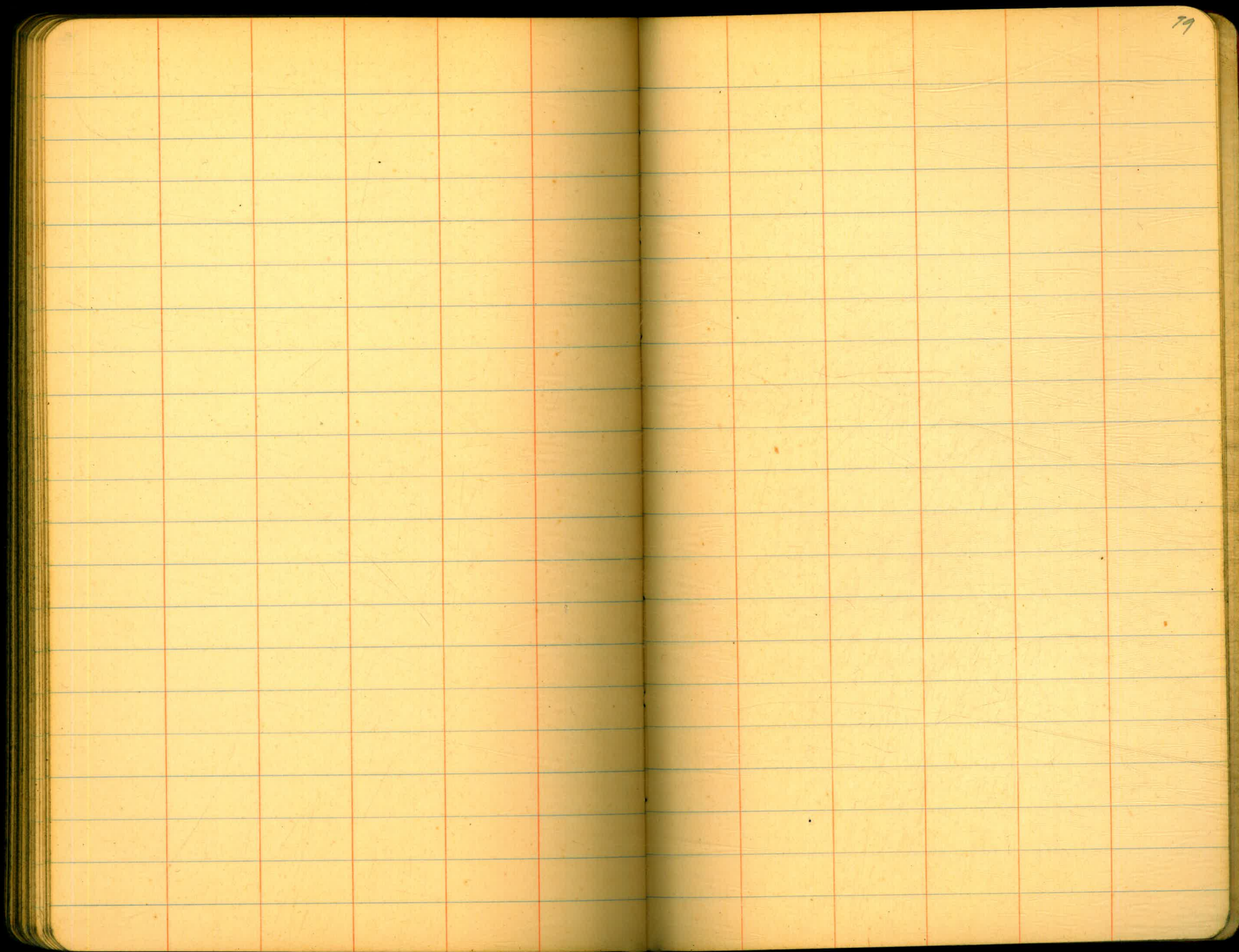
72

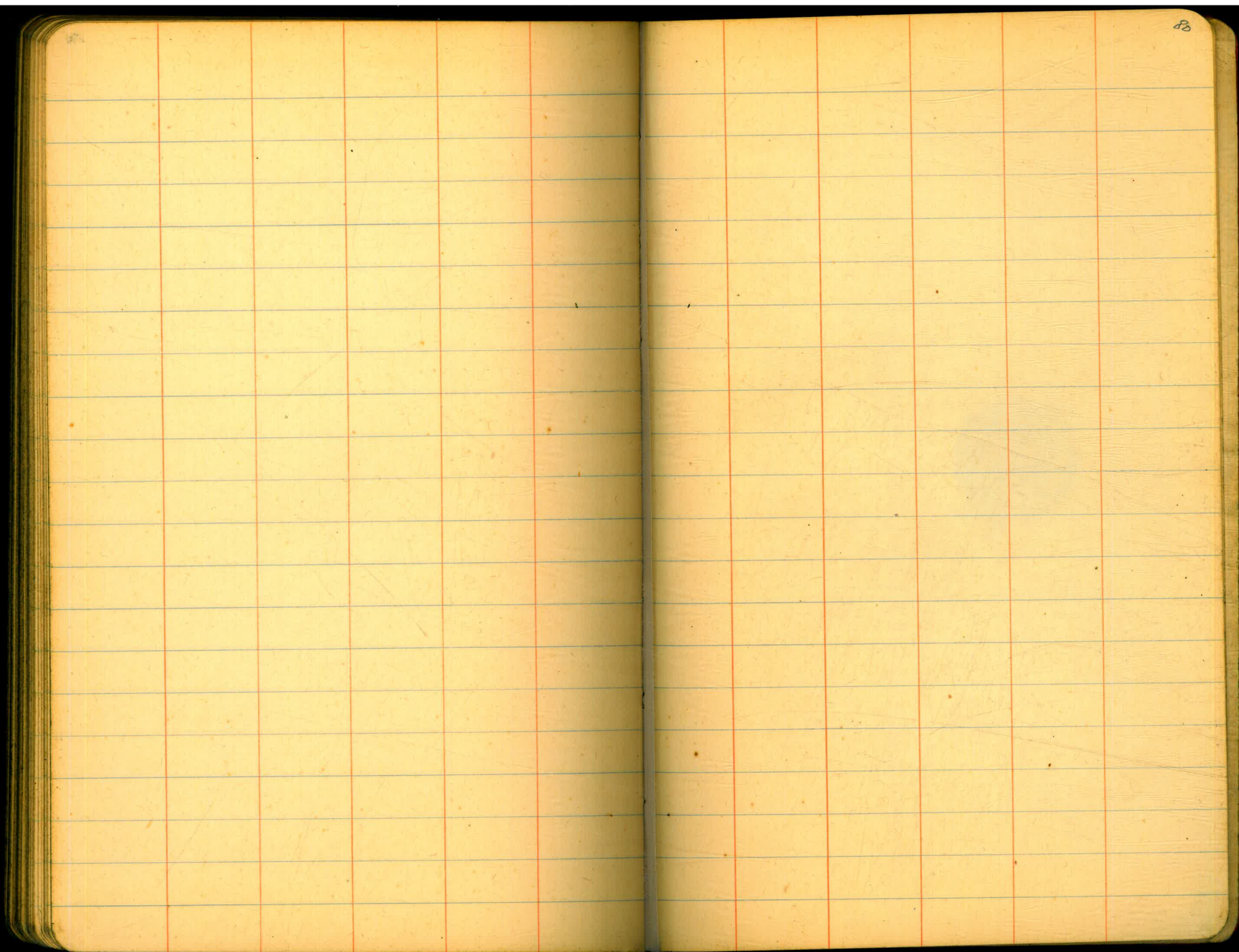


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '75' in the top right corner. The notebook is bound in the center, and the pages are otherwise blank.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The right page is numbered '76' in the top right corner. The notebook is bound in the center, and the pages appear slightly aged or used.







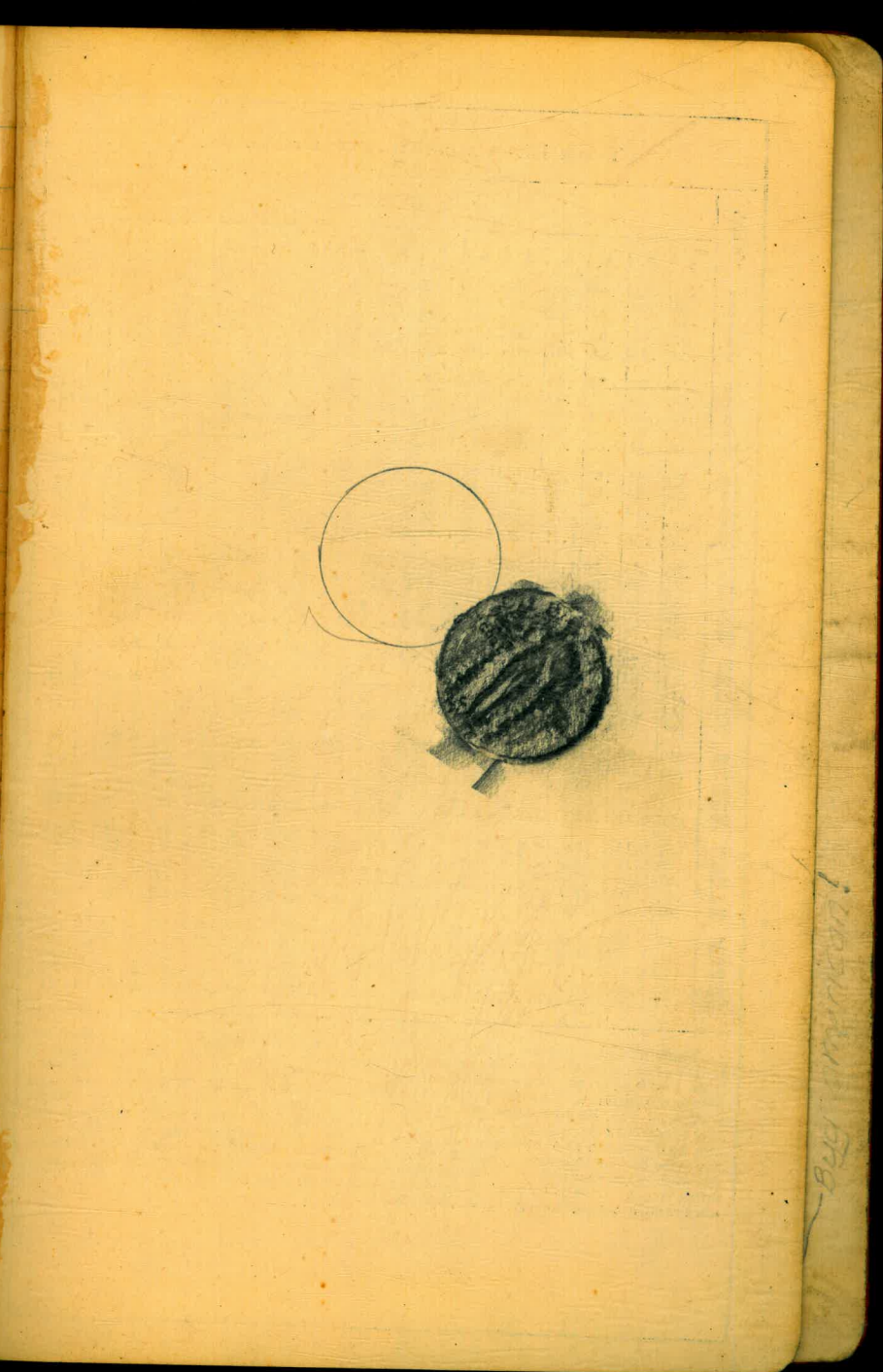
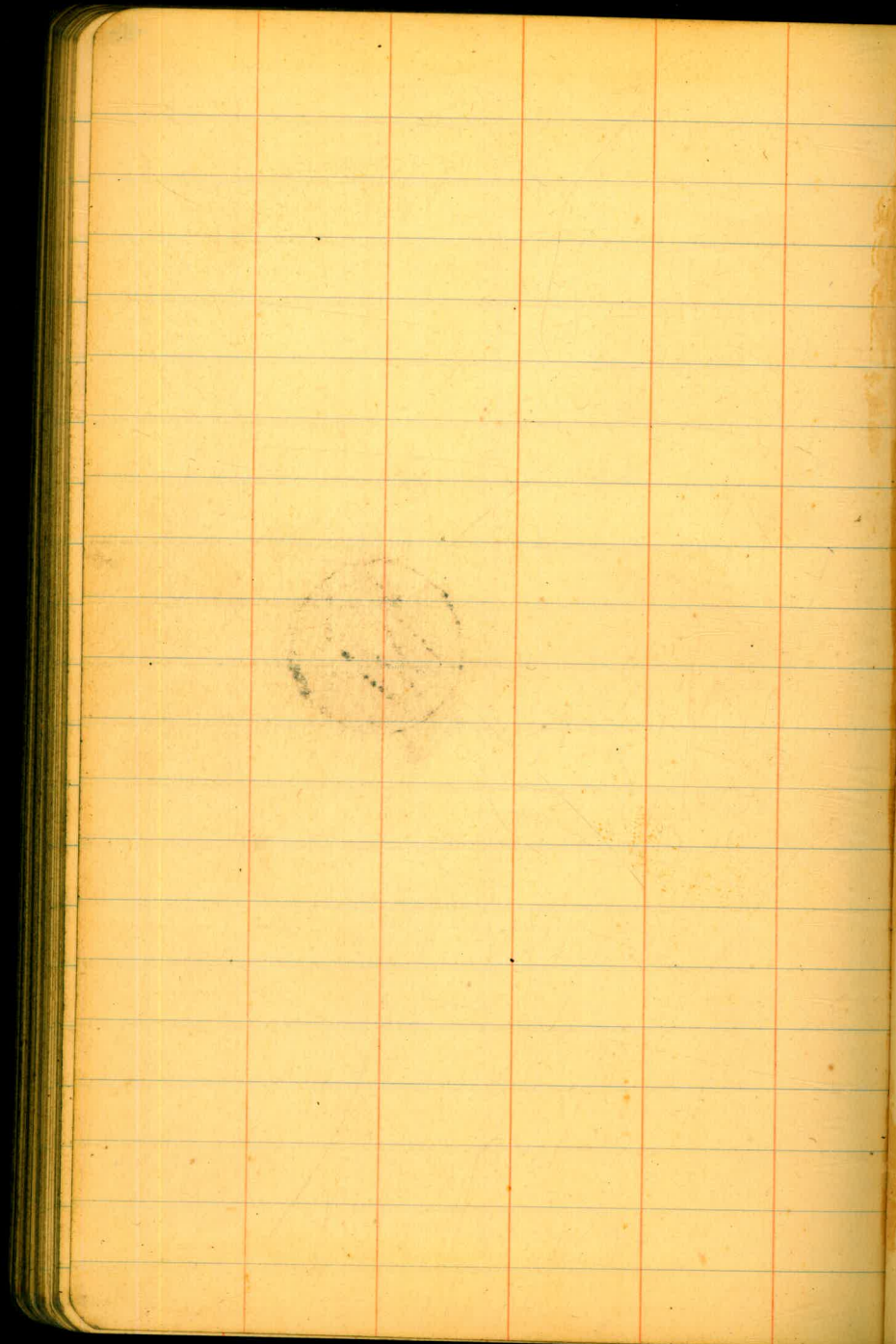


TABLE IX.—CALCULATION OF EARTHWORK.

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.56	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if $w=16.2$ and $h=5.3$, cu. yds. $=1.48+.028+.089=1.597$ cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) $=h$, and $\frac{1}{2}$ the roadbed $=w$, add the triangles formed by taking the distance out to each break in turn ($=w$'s) by the difference between the cuts (or fills) on each side of it ($=h$'s) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on $1\frac{1}{2}$.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	II
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9+(20-16)+2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

Made in Germany.