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City Hall, San Diego, Cal.*

TRANSIT

398

F.B.361



TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.15	50.75	85.91	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

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*Crocker Quality*

TRANSIT BOOK



No. \_\_\_\_\_

MANUFACTURED BY

H. S. CROCKER CO.

SAN FRANCISCO AND SACRAMENTO  
CALIFORNIA

FROM  
LORING'S BOOK STORE  
SAN DIEGO, CAL.







1/4 section B<sup>1</sup> st 6<sup>2</sup> to 70<sup>2</sup>  
 " 80' wide  
 using 5' quarters

2/10  
 Duvyille  
 Shaw  
 Evans

B.M. brass' dly 6<sup>2</sup> 3<sup>1</sup> B<sup>1</sup> 58.93

B.M. 7.87 66.30

E.L. Sixth St.

3. curb	8.8	57.5
gte	9.0	57.3
"	8.9	57.4
N	8.3	
+ 0.5 = 2' of S. rail	8.3	
+ 2.5 = " "	8.2	
+ 9.5 = 2' N of N rail	8.2	
"	8.1	
curb	7.6	
N	7.6	

+ 7.5' E

N	7.4
curb	7.5
"	8.0
+ 11.5 = 2' N of N rail	8.1
+ 18.5 = S rail	8.0
+ 20.5 = 2' S of S rail	8.1
N	8.2
"	8.7
gte	8.6
S. curb	8.5

Note - Curb & sidewalk all constructed on S. side from 6<sup>2</sup> st  
 to 10<sup>2</sup> st 8 on N. side from 7<sup>2</sup> to 9<sup>2</sup> sidewalk but no  
 curb bet 6<sup>2</sup> & 7<sup>2</sup> on N side

+ 450' E

S. curb	8.1
gte	8.4
"	8.5
N	7.8
+ 0.5	7.8
+ 7.5	7.7
+ 9.5	7.9
"	7.5
curb	7.5
N	7.1

+ 7.5'

N	6.8
curb	7.3
"	7.6
+ 11.5	7.4
+ 18.5	7.3
+ 20.5	7.4
N	7.4
"	8.2
gte	8.2
S. curb	7.8



66.20

1+0

S.crb	7.4
gte	7.8
"4	7.8
M	7.1
+10.5	7.1
+2.5	7.0
+9.5	7.1
"4	7.4
crb	7.1
N	6.5

1+25

N	6.4
crb	6.7
"4	6.9
+11.5	6.8
+18.5	6.7
+20.5	6.9
M	6.9
"4	7.3
gte	7.2
S.crb	7.0

1+50

S.crb	6.6
gte	7.1
"4	7.0
M	6.6
+10.5	6.6
+2.5	6.4
+9.5	6.4
"4	6.5
crb	6.3
N	6.1

1+75

N	5.8
crb	6.2
"4	6.1
+11.5	6.1
+18.5	6.1
+20.5	6.3
M	6.3
"4	6.8
gte	6.5
S.crb	6.2

91

3



66.20

2+0 = r.l. 7<sup>th</sup> 80' wide Graded

5.0	5.8
5.0	6.2
"	6.2
M	5.9
+0.5	5.9
+2.5	5.8
+9.5	5.8
"	5.7
erb	5.7
N	5.6
	11.0 erb
N	5.2
erb	5.5
"	5.6
+11.5	5.6
+13.5	5.6
+20.5	5.7
M	5.7
"	6.1
erb	6.2
S.	6.1

W 14

3	6.2
erb	6.1
"	5.9
M	5.6
+0.5	5.6
+2.5	5.5
+9.5	5.5
"	5.4
erb	5.3
N	4.5
	Center
N	3.5
erb	4.7
"	4.8
+11.5	5.1
+13.5	5.3
+20.5	5.3
M	5.3
"	5.3
erb	5.3
S	5.3

4



66-30

E 1/4

S	5.4
cb	5.3
"A	5.2
M	4.9
+0.5	4.9
+2.5	5.0
+9.5	5.0
"A	4.9
cb	4.7
N	3.9

E. cb

N	4.3
cb	4.7
"A	4.8
+11.5	4.9
+18.5	5.0
+20.5	4.9
M	4.9
"A	5.2
cb	5.3
S	5.4

E.L. 7 1/2

0' 5

S. cb	5.0
gt	5.9
"A	5.1
M	4.8
+0.5	4.8
+2.5	4.8
+9.5	4.7
"A	4.8
gt	4.8
N. cb	4.8

0 + 25 E of 7 1/2

N. cb	4.7
gt	5.2
"A	4.8
+11.5	4.6
+18.5	4.5
+20.5	4.5
M	4.5
"A	5.2
gt	5.3
S. cb	4.7



66-30

0450

s. orb	4.5
gla	5.1
"A	4.9
M	4.5
+0.5	4.5
+2.5	4.3
+9.5	4.4
"A	5.0
gla	5.2
n. orb	4.9

0775

n. orb	4.7
gla	4.7
"A	4.6
+11.5	4.3
+18.5	4.1
+20.5	4.1
M	4.1
"A	4.7
gla	4.8
s. orb	4.3

Note - cork has sunk on N. side from sta 1475 to 8A st

140

s. orb	4.1
gla	4.6
"A	4.5
M	3.9
+0.5	3.7
+2.5	3.9
+9.5	4.0
"A	4.3
gla	4.5
n. orb	3.8

1475

n. orb	4.0
gla	4.4
"A	4.2
+11.5	3.8
+18.5	3.7
+20.5	3.8
M	3.8
"A	4.3
gla	4.4
s. orb	3.8

6



46.30

1450

3.00h	3.7
gte	4.5
"	4.3
M	3.5
+0.5	3.5
+2.5	3.5
+9.5	3.6
"	3.9
gte	4.1
M.00h	3.4

1475

n.00h	3.8
gte	4.2
"	3.9
+11.5	3.2
+13.5	3.2
+20.5	3.3
M	3.3
"	3.8
gte	4.0
5.00h	3.5

Graded. 17

240 = n. l. 8<sup>th</sup> of 80 wide. 1

5.00h	3.4
gte	3.9
"	3.7
M	3.2
+0.5	3.2
+2.5	3.0
+9.5	3.1
"	3.1
gte	3.2
M.00h	2.9

M.00h

M	2.6
0.00h	2.6
"	2.6
+11.5	2.8
+18.5	2.8
+22.5	3.0
M	3.0
"	3.6
0.00h	3.8
5	3.4



66.70

W "A

S	3.8
erb	3.8
"A	3.6
M	2.9
+10.5	2.9
+12.5	2.8
+19.5	2.7
"A	2.4
erb	2.2
N	2.2

Center

N	1.1
erb	1.7
"A	1.9
+11.5	2.4
+18.5	2.5
+20.5	2.8
M	2.8
"A	3.1
erb	3.1
S	3.1

8

E "A

S	3.1
erb	3.0
"A	2.9
M	2.3
+10.5	2.3
+12.5	2.2
+19.5	2.2
"A	1.8
erb	1.6
N	1.4

E.urb

N	1.8
erb	1.7
"A	1.9
+11.5	2.2
+18.5	2.2
+20.5	2.2
M	2.2
"A	2.9
erb	3.1
S	2.9



66.20

E.L. 8<sup>th</sup> ST

S. col	2.4
gtw	3.0
"	3.0
M	2.3
+0.5	2.3
+2.5	2.0
+9.5	2.2
"	1.7
gtw	1.8
N. col	1.8

0+25 E of 8<sup>th</sup> ST

N. col	1.4
gtw	1.6
"	1.6
+11.5	1.8
+18.5	1.7
+20.5	1.9
M	1.9
"	2.7
gtw	2.7
S. col	2.1

0+50

S. col	1.7
gtw	2.4
"	2.5
M	1.7
+0.5	1.7
+2.5	1.5
+9.5	1.5
"	1.2
gtw	1.2
N. col	1.1

0+75

N. col	0.7
gtw	0.7
"	0.7
+11.5	1.1
+18.5	0.9
+20.5	1.3
M	1.3
"	2.1
gtw	1.9
S. col	1.2

T.P.	7.53	74.67	1.16	65.14
------	------	-------	------	-------

9



74.67

1+0

S. orb	9.3
gk	10.1
"	10.3
M	9.3
+0.5	9.3
+2.5	8.9
+9.5	8.1
"	8.7
gk	8.7
N. orb	8.7

1725

N. orb	8.3
gk	8.4
"	8.4
+11.5	8.7
+13.5	8.6
+20.5	8.9
M	8.9
"	9.8
gk	9.9
S. orb	8.9

1450

10

S. orb	8.5
gk	9.5
"	9.8
M	8.5
+0.5	8.5
+2.5	8.2
+9.5	8.3
"	8.1
gk	8.1
N. orb	7.9

1775

N. orb	7.6
gk	7.7
"	7.5
+11.5	7.8
+15.5	7.8
+20.5	8.0
M	8.0
"	8.9
gk	9.1
S. orb	8.2



7A.67

2+0 = m. L. 9<sup>th</sup> st 80' wide, Graded

3.00h	7.7
gtc	8.5
"	8.9
M	7.5
+0.5	7.5
+2.5	7.4
+9.5	7.3
"	6.9
gtc	7.1
ncch	7.1
w. curb	
~	8.2
crh	6.5
"	6.6
+11.5	7.1
+18.5	7.3
+20.5	7.3
M	7.3
"	8.2
crh	8.3
3	8.2

11

W 1/4

3	8.0
crh	7.8
"	7.8
M	7.1
+0.5	7.1
+2.5	7.2
+9.5	7.1
"	6.6
crh	6.6
N	6.5
center	
N	6.3
crh	6.5
"	6.6
+11.5	6.8
+18.5	7.0
+20.5	6.9
M	6.9
"	6.9
crh	6.9
3	7.0



E<sup>14</sup>

5	7.0
crk	6.8
"	6.7
M	6.7
+10.5	6.7
+12.5	6.5
+9.5	6.7
"	6.9
crk	6.5
N	6.9

F. C. 14

N	7.9
crk	6.5
"	6.9
+11.5	6.7
+18.5	6.5
+20.5	6.7
M	6.7
"	6.8
crk	7.0
5	7.2

E.L. 9<sup>th</sup> St 80' Grad

3. crk	6.8
gr	6.8
"	6.7
M	6.6
+10.5	6.6
+20.5	6.6
+9.5	6.6
"	6.5
crk	7.0
N	6.7

0+25 E of 9<sup>th</sup>

N	6.9
crk	6.9
"	6.1
+11.5	6.2
+18.5	6.3
+20.5	6.9
M	6.9
"	6.7
gr	6.3
3. crk	6.2



0+50

S. orb	5.7
gt	6.2
"	6.4
+16	6.2
N	5.8
+0.5	5.8
+2.5	5.7
+9.5	5.9
"	6.4
orb	6.4
N	6.3

0+75

N	6.2
orb	6.3
"	6.2
+11.5	5.9
+18.5	5.2
+20.5	5.3
N	5.3
+3	6.0
"	6.1
gt	6.0
S. orb	5.2

1+0

S. orb	4.6
gt	5.6
"	5.6
+15	5.6
N	5.0
+0.5	5.0
+2.5	4.8
+9.5	5.1
"	6.1
orb	6.1
N	5.8

1+25

N	4.8
orb	5.2
"	5.4
+11.5	4.6
+18.5	4.3
+20.5	4.5
N	4.5
+3	5.2
"	5.1
gt	5.0
S. orb	4.0



74.67

1-

1450

s.cch	3.4
gtc	4.2
"A	4.4
+1.5	4.5
M	4.1
+0.5	4.1
+2.5	3.8
+9.5	4.1
"A	4.2
cch	4.8
N	4.8
1475	
N	4.4
cch	4.4
"A	4.3
+11.5	3.5
+13.5	3.2
+20.5	3.9
M	3.4
"A	3.6
gtc	3.6
s.cch	2.8

2103 W.L. 10<sup>th</sup> St Graded. 14

s.cch	2.2
gtc	2.8
"A	2.7
M	2.9
+0.5	2.9
+2.5	2.7
+9.5	3.1
"A	3.9
cch	4.0
N	3.8
T.P.	9.73
	82.17
	2.23
	72.44
N. curb	
N	10.3
cch	11.0
"A	10.9
+11.5	10.3
+13.5	10.0
+20.5	10.0
M	10.0
"A	10.0
cch	10.1
S	10.2



82.17

W. 1/4

S	10.0
cut	9.8
1/4	9.7
M	9.9
+10.5	9.9
+2.5	9.8
+9.5	10.1
1/4	10.5
cut	10.6
N	10.6

Center

N	9.9
cut	9.8
1/4	9.6
+11.5	9.9
+18.5	9.9
+20.5	9.3
M	9.3
1/4	8.6
cut	8.6
S	8.6

15

E 1/4

S	8.3
cut	8.2
1/4	8.2
M	8.8
+2.5	8.8
+2.5	8.9
+9.5	8.9
1/4	9.1
cut	9.3
N	9.5

E. CUTS

N	9.5
cut	9.3
1/4	9.1
+11.5	8.8
+18.5	8.8
+20.5	8.8
M	8.8
1/4	8.1
cut	8.2
S	8.4



E.L. 10 # of, 80' wide

S	6.7
crk	7.2
"A	7.8
N	8.3
+0.5	8.3
+2.5	8.4
+7.5	8.4
"A	8.6
crk	8.9
N	8.9

0+25 E

N	6.6
crk	6.6
+1	6.6
+2	7.3
"A	6.9
+5	6.6
+11.5	7.0
+18.5	7.3
+20.5	7.0
N	6.7
"A	6.6
crk	6.7
+1	5.9
S	5.7

0+50

S	5.0
+13	5.0
crk	5.7
"A	5.7
N	5.5
+0.5	5.9
+2.5	6.1
+9.5	5.8
+12	5.4
"A	5.4
+3	5.9
+4	5.1
crk	5.1
N	5.2

0+75

N	3.4
crk	3.1
+1	3.1
+2	4.2
"A	3.8
+9	4.0
+11.5	5.6
+15.5	4.9
+20.5	4.6
N	4.3
"A	4.8
crk	4.5
S	4.1

16



82.17

1+0

5	3.6
crb	3.6
"4	4.0
M	3.7
+0.5	3.7
+2.5	3.7
+9.5	3.3
+12	2.8
"4	2.8
+3	3.6
+4	2.3
crb	2.3
N	2.0
N	1.3
crb	1.8
+1	1.8
+2	2.8
"4	1.9
+11.5	2.5
+18.5	2.5
+20.5	2.6
M	2.6
"1A	2.5
crb	2.5
5	2.8

1+25

17

1+50

5	1.5			
crb	1.4			
"4	1.8			
M	1.6			
+0.5	1.6			
+2.5	1.5			
+9.5	1.4			
"4	1.2			
+3	2.0			
+4	1.1			
crb	1.1			
N	0.3			
T.P.	10.25	91.85	0.57	81.60
		1+75		
N	9.4			
crb	10.0			
+1	10.0			
+2	10.7			
"4	10.1			
+11.5	9.9			
+18.5	9.8			
+20.5	10.2			
M	10.2			
"4	10.3			
crb	10.0			
5	9.8			



91.85

2+0 = W.L. 11<sup>th</sup> St, 80' wide @ grade

S	8.7
cut	9.0
glt	9.6
"A	9.7
M	9.1
+0.5	9.1
+2.5	8.8
+9.5	9.0
"A	9.4
glt	9.7
cut	8.9
N	8.7

W. curb

N	9.6
cut	9.9
"A	9.0
+11.5	8.7
+18.5	8.5
+20.5	8.8
M	8.8
"A	9.4
cut	9.5
S	9.6

18

W "A

S	9.5
cut	9.3
"A	9.1
M	8.6
+0.5	8.8
+2.5	8.3
+9.5	8.5
"A	8.9
cut	9.1
N	9.1

center

N	8.2
cut	8.1
"A	7.9
+11.5	7.8
+18.5	7.8
+20.5	8.0
M	8.0
"A	8.0
cut	8.0
S	8.0



71.25

E 14

S	2.1
Coh	2.8
"	2.7
M	2.4
+0.5	2.4
+2.5	2.3
+9.5	2.3
"	2.5
Coh	2.7
N	2.2
E. C. V. 16	
N	2.6
Coh	2.5
"	2.3
+11.5	2.2
+13.5	2.2
+20.5	2.2
M	2.2
"	2.7
Coh	2.8
S	2.7

E. L. 11<sup>th</sup> 5A

19

S	6.6
Coh	6.9
"	7.1
"	7.1
M	6.7
+0.5	6.7
+2.5	6.8
+9.5	6.8
"	7.0
"	7.2
Coh	6.9
N	6.5
0+25 E	
N	2.6
+13	2.7
Coh	3.4
+9	6.0
"	5.7
+11.5	5.3
+13.5	5.3
+20.5	5.1
M	5.1
+3	3.7
"	3.7
Coh	3.7
S	3.4



91.85

0+50

S			2.7	
Crk			2.7	
"A			2.9	
+17			2.6	
M			3.7	
+0.5			3.7	
+2.5			3.7	
+7.5			3.7	
"A			4.1	
+1			4.6	
Crk			2.2	
+2			1.3	
N			1.1	
T. P.	10.75	101.95	0.65	91.20

0+75

N			10.0	
+12			10.2	
Crk			11.2	
+3			13.3	
"A			12.8	
+11.5			12.4	
+18.5			12.3	
+20.5			12.3	
M			12.3	
+3			11.6	
"A			12.1	
Crk			17.4	
S			11.7	

20

1+0

S				10.3
Crk				9.5
"A				9.9
+2				10.6
+17				10.5
M				10.9
+0.5				10.9
+2.5				10.9
+9.5				11.0
"A				11.2
+2				11.6
Crk				9.2
N				7.8

1+25

N				6.5
+12				7.1
Crk				7.7
+3				7.9
"A				8.6
+11.5				7.4
+18.5				7.3
+20.5				7.3
M				7.1
"A				8.1
Crk				7.3
S				8.2



101.95

1+50

S	7.4
curb	6.7
1/4	6.9
+17	6.8
M	7.8
+0.5	7.9
+2.5	7.9
+9.5	7.9
1/4	8.2
+3	8.6
curb	6.9
+2	5.7
N	5.1

1+75

N	3.7
curb	4.3
+3	7.1
1/4	6.5
+11.5	6.2
+18.5	6.3
+20.5	6.2
M	6.2
+2	5.9
1/4	5.6
curb	5.4
S	5.9

Graded 21

2+0 = w. L. 12' # 5' 80' wide

S	5.2
curb	4.1
1/4	3.5
+2	4.1
+16	3.9
1/4	4.8
+0.5	4.8
+2.5	5.2
+9.5	5.3
1/4	5.3
+2	5.7
curb	2.6
N	2.4
	w. C. UPL
N	4.9
curb	4.8
1/4	4.6
+11.5	4.7
+18.5	4.7
+22.5	4.9
M	4.9
1/4	5.6
curb	5.8
S	6.0



W 11A

S	6.1
col	5.6
1/4	5.5
M	4.8
+0.5	4.8
+2.5	4.7
+9.5	4.7
1/4	4.6
col	4.6
N	4.7

Center

N	4.2
col	4.6
1/4	4.7
+11.5	4.7
+18.5	4.7
+20.5	4.7
M	4.7
1/4	5.1
col	5.1
S	5.5

E 11A

S	5.9
col	5.5
1/4	5.4
M	4.9
+0.5	4.9
+2.5	4.8
+9.5	4.9
1/4	4.7
col	4.8
N	4.6

E. curb

N	4.9
col	5.0
1/4	4.8
+11.5	4.8
+18.5	4.8
+20.5	4.8
M	4.8
1/4	5.7
col	5.8
S	6.3



101.95

E.L. 12<sup>th</sup> ST

3	5.3	96.7
cul	5.5	96.5
gr	5.9	96.1
"	5.7	96.3
"	5.0	97.0
+0.5	4.9	97.1
+2.5	4.9	97.1
+9.5	4.9	97.1
"	5.1	96.9
gr	5.3	96.7
cul	4.5	97.5
N	4.3	97.7

0+25 E

N	5.1	96.9
cul	5.7	96.3
+1	6.5	
"	6.2	95.8
+11.5	5.8	96.2
+18.5	5.7	96.3
+20.5	5.9	96.1
"	5.9	96.1
"	6.8	95.2
gr	7.0	95.0
S.cul	6.5	95.5

Note - curbed side walk in on S. side bet 12<sup>th</sup> & 13<sup>th</sup>

101.95

0+50

23

S.cul	7.6	94.4
gr	8.3	93.7
"	7.9	94.1
"	6.8	95.2
+0.5	6.9	95.2
+2.5	6.7	95.3
+9.5	6.7	95.3
"	7.0	95.0
gr	7.3	94.7
S.cul	6.6	95.4
N	6.3	95.7

0+75

N	7.1	94.9
cul	7.5	94.5
+1	8.2	93.8
"	7.9	94.1
+11.5	7.7	94.3
+18.5	7.6	94.4
+20.5	7.7	94.3
"	7.7	94.3
"	8.8	93.2
gr	9.3	92.7
S.cul	8.5	93.5



101.95

170

scrh	9.4	92.6
gtc	10.3	91.7
"	9.8	92.2
M	8.6	93.4
+0.5	8.6	93.4
+2.5	8.5	93.5
+9.5	8.6	93.4
"	9.0	93.0
+A	7.0	93.0
scrh	7.9	94.1
N	7.7	94.3

172.5

N	8.6	93.4
scrh	8.8	93.2
gtc	9.3	92.2
"	9.7	92.3
+11.5	9.3	92.7
+18.5	9.5	92.5
+20.5	9.6	92.4
M	7.6	92.4
"	10.8	91.2
gtc	11.3	90.7
scrh	10.4	92.0

24

1750

scrh	11.5	90.5
gtc	12.4	89.6
"	12.0	90.0
M	10.6	91.4
+0.5	10.6	91.4
+2.5	10.4	91.6
+9.5	10.4	91.6
"	10.6	91.4
+A	11.0	92.0
scrh	10.0	92.0
N	9.6	92.4

177.5

N	10.4	91.6
scrh	10.8	91.2
+1	11.6	90.4
"	11.4	90.6
+11.5	11.4	90.6
+18.5	11.4	90.6
+20.5	11.5	90.5
M	11.5	90.5
"	12.9	89.1
gtc	13.2	88.8
scrh	12.6	88.4
T.P.	9.59	99.01
	12.53	89.92



210 = m.l. 13<sup>th</sup> st 80' wide  
 Graded, 80' wide

3. curb	10.6	88.4
gtc	11.7	87.3
"4	10.6	88.4
M	9.3	89.7
+10.5	9.3	89.7
+2.5	9.2	89.8
+9.5	9.1	89.9
"4	8.7	90.3
gtc	10.1	88.9
curb	8.6	90.4
N	8.4	90.6

W. CURB

N	8.6	
curb	8.8	
"4	9.0	
+11.5	9.3	
+18.5	9.3	
+20.5	9.5	
M	9.5	
"4	10.5	
curb	10.6	
3	10.7	

W 14

3	11.2
curb	10.7
"4	10.5
M	9.5
+10.5	9.5
+2.5	9.3
+9.5	9.3
"4	8.8
curb	8.7
N	8.9

Center

N	8.2
curb	8.9
"4	8.9
+11.5	9.3
+18.5	9.3
+20.5	9.3
M	9.3
"4	10.0
curb	10.2
3	10.7



CS

E 119

S	11.1
cut	10.7
119	10.6
M	9.5
+0.5	9.5
+2.5	9.4
+9.5	9.3
119	8.8
cut	8.6
N	8.4

E. CURVE

N	8.6
cut	8.7
119	8.8
+11.5	9.3
+18.5	9.4
+20.5	9.6
M	9.6
119	10.4
cut	10.4
S	10.6

Note Curve <sup>8.512</sup> 117 on N. side bet 130 & 149

99.0

E. L. 13<sup>B</sup>

26

S	10.0	89.0
cut	10.2	88.8
119	11.2	87.8
M	10.4	88.6
+0.5	9.3	89.7
+2.5	9.3	89.7
+9.5	9.2	89.8
119	8.9	90.1
cut	8.5	90.5
N	9.9	89.1
119 cut	8.6	90.4

0725 E

119 cut	6.5	92.5
cut	7.5	91.5
119	7.3	91.7
+11.5	7.5	91.5
+18.5	7.4	91.6
+20.5	7.5	91.5
M	7.5	91.5
119	8.5	90.2
+9.5	9.1	89.9
cut	8.4	90.6
S	8.0	91.0



0+50

5	5.9	93.1
calc	6.4	92.6
+1	7.1	91.9
1/4	6.7	92.3
M	5.2	93.8
+0.5	5.2	93.8
+2.5	5.1	93.9
+9.5	5.1	93.9
1/4	5.3	93.7
gta	5.5	93.5
N. calc	4.3	94.7
0+75		
N. calc	2.2	96.8
gta	3.0	98.0
1/4	2.9	96.1
+11.5	2.8	96.2
+13.5	2.7	96.3
+20.5	2.9	96.1
M	2.9	96.1
1/4	4.6	94.4
+9	5.0	94.0
calc	4.2	94.8
5	3.9	95.1

1+0

5	2.0	97.0
calc	2.2	96.8
+1	3.0	96.0
1/4	2.4	96.6
M	0.3	98.2
+0.5	0.3	98.2
+2.5	0.7	98.3
+9.5	0.7	98.3
1/4	0.7	98.3
gta	0.9	98.1
N. calc	0.1	
T.P.	9.55	108.20
		1+25
N. calc	0.36	99.65
N. calc	7.2	101.1
gta	7.5	100.4
1/4	7.7	100.5
+11.5	7.8	100.4
+13.5	7.8	100.4
+20.5	7.9	100.3
M	7.9	100.3
1/4	9.3	98.4
+9	9.9	98.3
calc	9.2	99.0
5	9.0	99.2



108.20

1750

5	6.6	101.6
cul	7.0	101.2
+1	7.6	100.6
14	6.9	101.3
M	5.8	102.4
+0.5	5.8	102.4
+2.5	5.7	102.5
+9.5	5.7	102.5
14	5.6	102.6
gls	5.7	102.5
nicole	5.0	103.2

1775

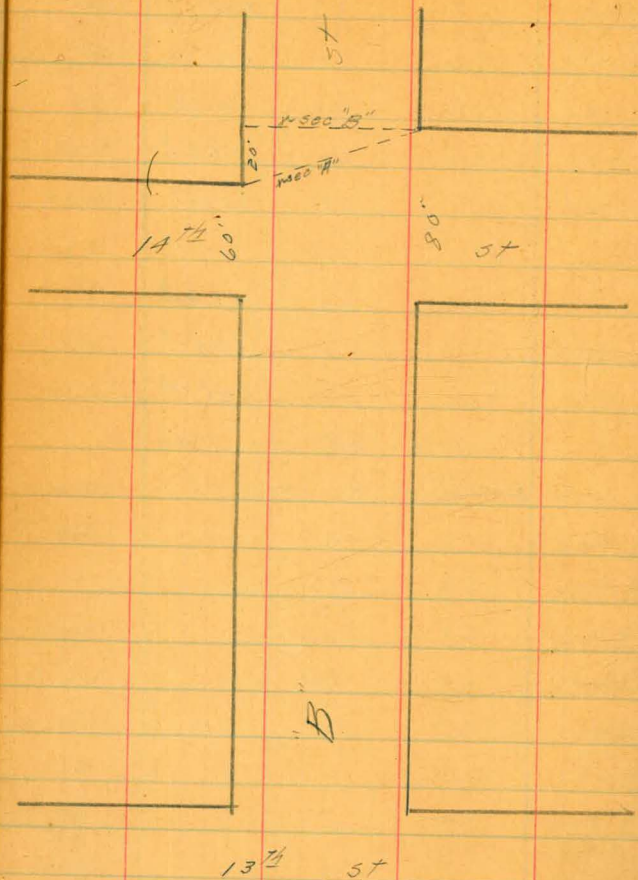
nicole	2.9	105.3
gls	3.6	104.6
14	3.3	104.9
+11.5	3.4	104.8
+18.5	3.4	104.8
+20.5	3.5	104.7
M	3.5	104.7
14	4.6	103.6
+4	5.0	103.2
cul	4.7	103.5
5	4.4	103.8

28

210 = W.L. 14<sup>th</sup> St 600 N 830 215 A Graded

5	2.6	105.6
cul	2.8	105.4
+1	3.0	105.2
14	2.6	105.6
M	1.6	106.6
+0.5	1.6	106.6
+2.5	1.5	106.7
+9.5	1.5	106.7
14	1.4	106.8
gls	1.5	106.7
nicole	0.8	107.4
T.P.	1132	118.74
		0.78
		107.42
	X-section	"H" see p 29
N		7.1
+3		8.6
+12		8.5
cul		9.3
14		10.3
M		9.9
14		10.9
cul		11.2
+12		10.9
5		8.6





118.74

3/10 Sample  
Harris  
Evans, 29

1-sec 131 "B"

5	2.6
15	10.4
17	2.9
crk	5.9
14	6.5
M	6.9
14	7.5
crk	6.2
+ 12	4.6
N	2.5

0+25 E. of 1-sec "B"

N	+ 0.7			
crk	2.1			
14	3.4			
M	4.3			
+ 2	3.7			
14	4.8			
crk	4.9			
B	6.5	11 2 2		
T.P.	11.91	129.27	1.38	117.36



129.27

0750

5	15.3	114
+7	14.1	
crk	13.6	
1/2	13.5	
+7	12.9	
M	12.7	
1/2	11.7	
crk	9.1	
+2	8.3	
N	7.1	
0775		
N	4.5	
+1	6.0	
+11	6.3	
crk	7.7	
1/2	9.5	
+6	10.5	
M	10.8	
+10	10.9	
1/2	11.8	
crk	12.0	
+6	12.2	
+8	13.1	
5	13.2	116.1

30

1+0

5	10.5	118.8
+9	10.7	
+7	9.9	
crk	10.3	
1/2	9.9	
+11	8.7	
M	9.3	
+10	9.6	
+14	2.4	
1/2	2.0	
crk	6.5	
+2	5.9	
+13	4.9	
N	3.6	
1+25		
N	2.3	
+2	3.8	
crk	5.7	
1/2	6.2	
+6	6.5	
+8	7.5	
M	7.7	
+10	7.0	
1/2	6.9	
crk	7.1	
+6	7.8	
+7	8.7	
5	9.0	120.3



	1+50	121.8
S	7.8	
+4	7.7	
+5	6.7	
+10	6.0	
crk	6.1	
"4	6.1	
+16	5.4	
M	5.8	
"4	5.0	
+3	4.6	
crk	3.7	
+2	3.3	
+13	1.8	
N	0.9	

	1+75	122.0
N	+0.8	
+1	0.0	
crk	2.3	
"4	3.8	
+15	4.7	
M	3.8	
"4	5.5	
crk	6.0	
S	7.0	122.0

	2+0	122.3
S	7.0	122.3
crk	5.5	
"4	5.0	
M	3.7	
+11	4.3	
+12	3.6	
crk	3.0	
+5	0.5	
N	+1.1	
	+2.5	
N	0.6	
crk	1.5	
+3	2.2	
"4	2.3	
M	3.2	
"4	5.7	
crk	6.1	
S	6.9	122.4



129.27

2+50

S	8.3	121
cb	7.9	
1/4	7.3	
M	4.9	
1/4	4.5	
cb	4.2	
N	9.0	
2+75		
N	7.6	
+2	8.7	
cb	5.6	
1/4	2.7	
M	2.7	
+12	7.3	
1/4	11.0	
cb	11.4	
S	11.7	117.6

3+0

S	13.7	115.6
cb	15.3	
1/4	15.0	
M	12.5	
1/4	11.8	
cb	12.0	
N	11.9	
T.P.	11.0	117.91
		12.96
		116.31
3+25		
N	6.0	
cb	5.7	
1/4	5.6	
M	5.2	
+9	5.8	
1/4	7.2	
cb	7.5	
S	7.2	110.2



3+50

S			11.1	106.7
crk			11.2	
"4			11.1	
+8			10.4	
M			9.8	
"4			10.3	
crk			10.0	
N			10.0	
T.P.	0.67	105.08	13.00	104.41
		3+75		
N			2.1	
crk			1.9	
"4			2.0	
M			1.5	
+7			1.7	
"4			2.9	
crk			2.2	
S			1.6	103.7

A+D = M.L. 15<sup>th</sup> 80' Graded.

S				4.6	100.5
crk				6.1	
"4				6.0	
N				4.5	
"4				4.6	
crk				4.1	
N				4.2	
				E.L. 15 <sup>th</sup>	
N				11.9	
crk				12.2	
"4				12.6	
M				11.9	
"4				12.7	
crk				12.1	
S				11.9	
T.P.	1.03	93.60	12.51	92.57	



93.00

0710 E of 15<sup>th</sup>

S	6.0
alt	7.0
"	7.6
M	8.2
"	8.0
+3	8.0
alt	7.0
N	11.6
0+25	
N	9.3
+5	10.4
alt	10.4
"	10.7
M	10.6
"	9.7
alt	9.2
S	8.5

34

0450

S	12.7			
alt	13.6			
"	13.7			
M	12.7			
"	14.0			
alt	14.6			
N	14.6			
T.P.	0.17	81.26	12.51	81.09
.0+75				
N	5.9			
alt	5.0			
"	5.1			
M	4.0			
+8	3.5			
"	3.8			
alt	4.0			
S	3.3			



81.26

1+0

S	6.2
crk	7.2
1/4	7.5
M	7.9
1/4	6.7
crk	7.6
N	7.0

1+25

N	7.2
+6	7.5
crk	9.3
1/4	9.2
M	8.8
1/4	9.7
crk	9.5
S	9.9

1+50

S	11.1
crk	10.2
1/4	10.4
M	9.8
1/4	10.3
crk	10.0
N	7.6

1+75

N	7.7
+5	8.1
+10	9.8
crk	10.0
1/4	10.1
M	9.9
1/4	10.9
crk	11.0
S	11.1



51.26

E.L. 16<sup>th</sup> St Graded.

S	10.8
crk	10.3
"A	11.4
M	9.9
"A	8.7
crk	8.2
N	7.3

E.L. 16<sup>th</sup> St

N	4.9
crk	5.9
"A	6.0
M	8.1
"A	9.6
crk	9.6
S	9.6

36

O+75 E

S	7.6
crk	5.8
"A	5.3
M	6.2
"A	4.5
crk	4.1
N	2.6

O+50

N	1.9
crk	2.9
"A	3.4
M	5.2
"A	7.3
crk	8.1
S	9.0

O+75

S	8.9
crk	5.0
"A	6.9
M	4.8
"A	3.1
crk	2.9
N	1.4



81.26

1+0

N	2.2
erb	3.3
"	3.7
M	4.5
"	7.1
erb	7.8
S	8.6

1+25

S	8.5
erb	7.9
"	6.5
M	4.5
"	3.1
erb	3.0
N	2.0

1+50

N	2.2
erb	2.7
"	3.0
M	4.8
"	7.1
erb	7.5
S	8.3

1+75

S	10.0
erb	8.9
"	8.5
M	6.0
"	3.7
erb	3.2
N	2.3

2+0 = W.L. 17<sup>th</sup> St 80' wide

N	3.0
erb	4.1
"	4.7
M	7.2
"	7.2
erb	9.6
S	11.0

T.P. 1.83 79.60 849 72.77

w. coal

S	5.1
erb	3.7
"	3.3
M	1.7
"	+1.7
erb	+2.0
N	+2.1



74.60

N "A

N	+2.6
est	+2.7
"A	+1.0
M	1.9
"A	3.4
est	3.8
S	5.0

Center

S	4.9
est	4.5
"A	4.3
M	2.9
"A	0.7
est	0.2
N	+1.0

E "A

N	1.1
est	1.7
"A	2.0
M	3.9
"A	4.7
est	5.2
S	5.8

38

E. CURK

S	5.8
est	5.3
"A	5.0
M	3.9
"A	1.8
est	1.7
N	1.4

E. L. 17<sup>th</sup> St

N	1.5
est	2.5
"A	2.4
M	4.2
"A	5.0
est	5.4
S	6.2

0 + 2.5 E of 17<sup>th</sup> St

S	6.4
est	6.1
"A	5.9
M	4.3
"A	4.1
est	4.0
N	2.8



0750

N	2.7
73	3.5
curb	4.6
1/4	5.2
M	6.6
1/4	8.1
curb	8.7
S	9.4

0775

S	6.3
curb	6.4
1/4	6.7
M	7.0
1/4	6.0
curb	5.8
N	4.0

170

N	3.2
curb	4.9
1/4	5.4
1/4	5.3
1/4	5.3
curb	5.4
S	6.2

1725

S	6.5
curb	5.5
1/4	5.3
1/4	4.4
1/4	3.9
curb	3.5
N	3.6

1750

N	3.6
curb	3.6
1/4	4.1
M	4.7
1/4	5.6
curb	6.0
S	6.7

1775

S	7.0
curb	6.2
1/4	6.3
M	5.3
1/4	5.0
curb	4.1
N	3.9



38

7A.60.

210 = M.L. 18<sup>th</sup> 5780' Graded

N	4.1
orb	5.1
"A	6.5
M	6.8
"A	6.6
orb	7.4
S	8.0
F.L. 18 <sup>th</sup> 5+	
S	8.5
orb	8.5
"A	9.3
+1	9.5
M	7.5
"A	6.5
orb	6.4
N	5.9

40

0+25 E

N	6.1			
orb	6.5			
"A	6.7			
M	7.6			
"A	8.7			
orb	8.3			
S	8.7			
0+50				
S	8.7			
orb	8.2			
"A	8.2			
M	7.5			
"A	7.1			
orb	6.8			
N	6.1			
0+75				
N	6.5			
orb	7.0			
"A	7.4			
M	8.4			
"A	9.4			
orb	9.7			
S	9.5			
T.P.	2.36	67.76	8.96	65.60



67.96

140

S	4.6
crk	4.6
"	4.4
N	4.4
"	2.6
crk	2.4
N	1.3

1425

N	8.0
crk	8.3
"	8.5
N	8.9
"	7.2
<sup>13</sup> crk	6.8
	6.9
S	7.9

1450

S	9.2
crk	9.1
"	9.4
N	9.2
"	8.7
crk	8.6
N	8.3

41

1475

N	8.6
crk	8.9
"	8.9
N	9.6
"	9.8
crk	9.7
S	9.5

240 = W.L. 19<sup>th</sup> St 80' wide

S	10.2
crk	10.3
"	10.5
N	10.0
"	9.3
crk	9.0
N	8.5

W. C. 16

N	8.8
crk	9.8
"	10.0
N	10.2
"	10.5
crk	10.6
S	10.7



6796

W 1/4

S	10.7
cb	10.4
1/4	10.3
cen	10.2
1/4	10.1
cb	10.0
N	8.8

center

N	8.9
c	9.3
1/4	9.7
cen	10.8
1/4	11.0
cb	11.2
S	11.5

E 1/4

S	12.7
cb	12.9
1/4	13.0
cen	9.9
1/4	9.6
cb	12.9
N	11.7

42

E cb

N	12.7
cb	9.6
1/4	9.6
cen	11.9
1/4	11.4
cb	11.1
S	11.0

E Line 19<sup>th</sup> 54

S	11.4
cb	11.4
1/4	11.5
cb	11.4
1/4	11.9
cb	12.4
N	11.8

0+25

N	10.4
cb	10.8
1/4	10.8
cen	11.1
1/4	10.8
cb	10.8
S	10.6



	0+50	
S		9.1
cb		9.1
114		9.3
cen		9.9
114		9.9
cb		9.8
N		10.1

	0+75	
N		8.8
cb		8.6
114		8.5
cen		8.6
114		8.6
cb		8.6
S		8.6

	1+00	
S		8.4
cb		8.4
114		8.2
cen		8.1
114		7.7
cb		7.8
N		7.7

	1+25	
N		6.2
cb		6.5
114		6.7
cen		7.7
114		7.6
cb		7.8
S		7.9

	1+50	
S		6.7
cb		7.0
114		7.2
cen		6.9
114		6.5
cb		6.2
N		5.2

	1+75	
N		4.4
cb		4.8
114		4.9
cen		5.6
114		4.9
cb		4.4
S		3.7



84

W LINE 20<sup>th</sup> St

9

1.3

11

1.6

11 1/2

2.0

12

2.8

13

3.7

14

3.6

15

3.8

84



Section 31st Webster to Clay  
 " 60' wide  
 5' quarters

3/4  
 10  
 Drunkle  
 Shaw  
 Evans

44 1/2

B.M. B.P. OPK 31st B "M" 76.62

0+50

B.M. 2.77 79.41  
 T.P. 7.80 81.07 6.14 73.27

E 5.9 75.2  
 curb 6.4 74.7

S.L. Webster

E 7.8 73.3  
 curb 8.9 72.2  
 1/4 9.2 71.9

1/4 6.9 74.2  
 1/4 7.8 73.3  
 1/4 9.6 71.5  
 10.4 9.7 71.4

+10.9 = 2' E of E rail Calif. So. P.R. 8.6 72.5

M 9.1

M = ctr. track 8.3

+4.6 9.9 71.2

+4.6 = 2' W of M rail 8.9 72.2

+9 9.6 71.5  
 11 9.4 72.7

+12 9.4 71.7

1/4 8.0 73.1  
 curb 8.0 73.1

1/4 8.4 72.9

W 8.2 72.9

curb 8.2 72.9

0+75

W 8.5 72.6

W 8.2 72.9

0+75 S of Webster

W 8.4 72.7

W 8.2 72.9

curb 8.4 72.7

curb 7.8 73.3  
 1/4 7.6 73.5  
 1/4 7.6 73.5

+4 9.4 71.7

+7 10.1 70.0  
 +10.9 10.2 69.9

+10.9 9.3 71.8

M 9.6 70.5  
 +4.6 10.2 69.9  
 +7 10.2 69.9

M 8.6

1/4 9.0 77.1

+4.6 9.1 72.0

curb 9.7 77.4

+5 9.4 71.7

E 9.8 77.3

+10 8.6 72.5

1/4 8.2 72.9

curb 8.1 73.0

E 6.3 74.8



811

145

E	3.7	77.4
+6	2.8	78.3
crk	3.1	78.0
14	3.7	77.4
+3	4.1	77.0
+9	11.0	70.1
+10.4	10.9	70.2
M	10.1	
+4.6	10.8	70.3
+7	10.7	70.4
+10	6.5	74.6
14	6.9	74.7
crk	6.6	74.5
W	7.6	73.5

1475

W	7.5	73.6
crk	6.4	74.7
14	6.5	74.6
+2	6.8	74.3
+6	11.0	70.1
+10.4	11.0	70.1
M	10.7	
+4.6	11.3	69.8
+6	11.1	70.0
+7	10.2	70.9
14	3.7	76.4
crk	3.0	78.1
+6	2.9	78.7
E	3.3	77.8

45

1450 811

E	3.0	78.1
+5	1.7	79.4
crk	2.9	78.2
14	4.3	76.8
+1	4.8	76.3
+9	11.4	69.7
+10	11.9	69.2
+10.4	11.8	69.3
M	11.3	69.4
+4.6	11.8	69.3
+6	11.6	69.5
+12	6.6	74.5
14	6.0	75.1
crk	5.7	75.4
W	6.5	74.6

1475

W	6.1	75.0
crk	5.2	75.3
14	5.8	75.3
+3	7.2	73.9
+9	11.9	69.2
+10.4	12.1	69.0
M	11.8	69.3
+4.6	12.7	68.7
+6	12.5	68.6
+7	11.9	69.2
14	4.4	76.7
crk	3.0	78.1
+5	1.2	79.9
E	2.8	78.3



81.07

2+0

E	3.6	77.5
+6	2.2	78.9
cb	3.1	78.0
1/4	4.9	76.4
+1	5.1	76.0
+8	12.9	68.7
+9	13.2	67.9
+10.4	12.9	68.2
M	14.4	
+14.6	12.9	67.7
+13	5.9	75.2
1/4	5.0	76.1
cb	4.9	76.2
+8	5.2	75.9
W	5.8	75.3

2+25

W	5.6	75.5
+2	5.2	75.9
cb	5.0	76.1
1/4	5.3	75.8
+9	12.9	68.2
+10.4	13.2	67.9
M	12.9	
+14.6	13.5	67.6
+6	13.7	67.4
+7	12.7	68.4
+14	6.5	74.7
1/4	5.8	75.3
cb	4.8	76.3
+3	4.9	76.7
E	6.0	75.1
T. P.	3.89	76.68
	8.23	72.84

76.68

2+50

E	2.9	74.8
+5	1.0	75.7
cb	1.4	75.3
1/4	2.15	74.2
+1	3.1	73.6
+5	7.8	68.9
+7	9.2	67.5
+8	9.9	66.8
+10.4	9.7	67.0
M	9.1	
+14.6	9.1	67.6
1/4	2.7	74.0
cb	2.9	73.8
W	3.0	73.7

2+75

W	4.1	72.6
cb	4.0	72.7
1/4	4.2	72.5
+3	5.3	72.4
+9	9.7	67.0
+10.4	9.9	66.8
M	9.7	67.0
+14.6	10.1	66.6
+6	10.3	66.4
+7	9.4	67.3
+10	8.2	68.5
+13	4.9	71.8
1/4	4.5	72.2
cb	3.7	73.0
+4	3.9	72.8
E	4.1	72.0

46



76.68

## 3+0 = N. Li Clay Arc

E	7.1	69.6
+7	5.8	70.9
cut	5.8	70.9
1/4	6.3	70.4
+2	6.9	69.8
+6	7.8	66.9
+7	10.7	66.0
+10.4 = 2' E. of E. rail	10.6	66.1
N	10.1	
+9.6 = 2' W. of W. rail	9.9	66.8
1/4	5.6	71.1
cut	5.2	71.5
W	5.2	71.5

47



14 section Nutmeg 50 ft to Park  
 " " 20' wide 14' sidewalk  
 5' quarters

31 sample  
 1/10 share  
 Evans

B.M. brass plg 5<sup>th</sup> & Nutmeg

264.94

0+50

B.M. 3.55 268.49  
 E.L. 5<sup>th</sup>

N	2.7	266.1
col	3.4	265.1
14	3.5	265.0
N	4.0	264.5
14	4.5	264.0
col	4.4	264.1
S	4.1	264.4

0+75 E

S	4.7	263.8
col	4.8	263.7
11	5.3	263.2
14	5.0	263.5
N	3.9	264.6
14	3.9	264.6
col	3.6	264.9
N	2.9	265.6

N	2.8	265.7
col	3.8	264.7
14	3.9	264.6
N	3.9	264.6
14	4.9	263.6
14	5.2	263.3
col	4.6	263.9
S	4.8	263.7

0+75

S	4.5	264.0
11	4.4	264.1
col	5.0	263.5
14	4.7	263.8
N	3.9	264.6
14	4.1	264.4
14	4.1	264.4
col	3.6	264.9
N	3.0	265.5



268.5

1+0

N	3.4	265.1
cb	3.5	265.0
+1	4.1	264.4
"4	4.1	264.4
M	4.0	264.5
"4	4.7	263.8
cb	4.7	263.6
+1	4.4	264.1
S	4.5	263.7

1+25

S	4.7	263.8
+11	4.7	263.8
cb	5.1	263.4
"4	4.9	263.6
M	4.2	264.3
"4	4.2	264.3
+4	4.6	263.9
cb	4.3	264.2
N	4.1	264.4

49

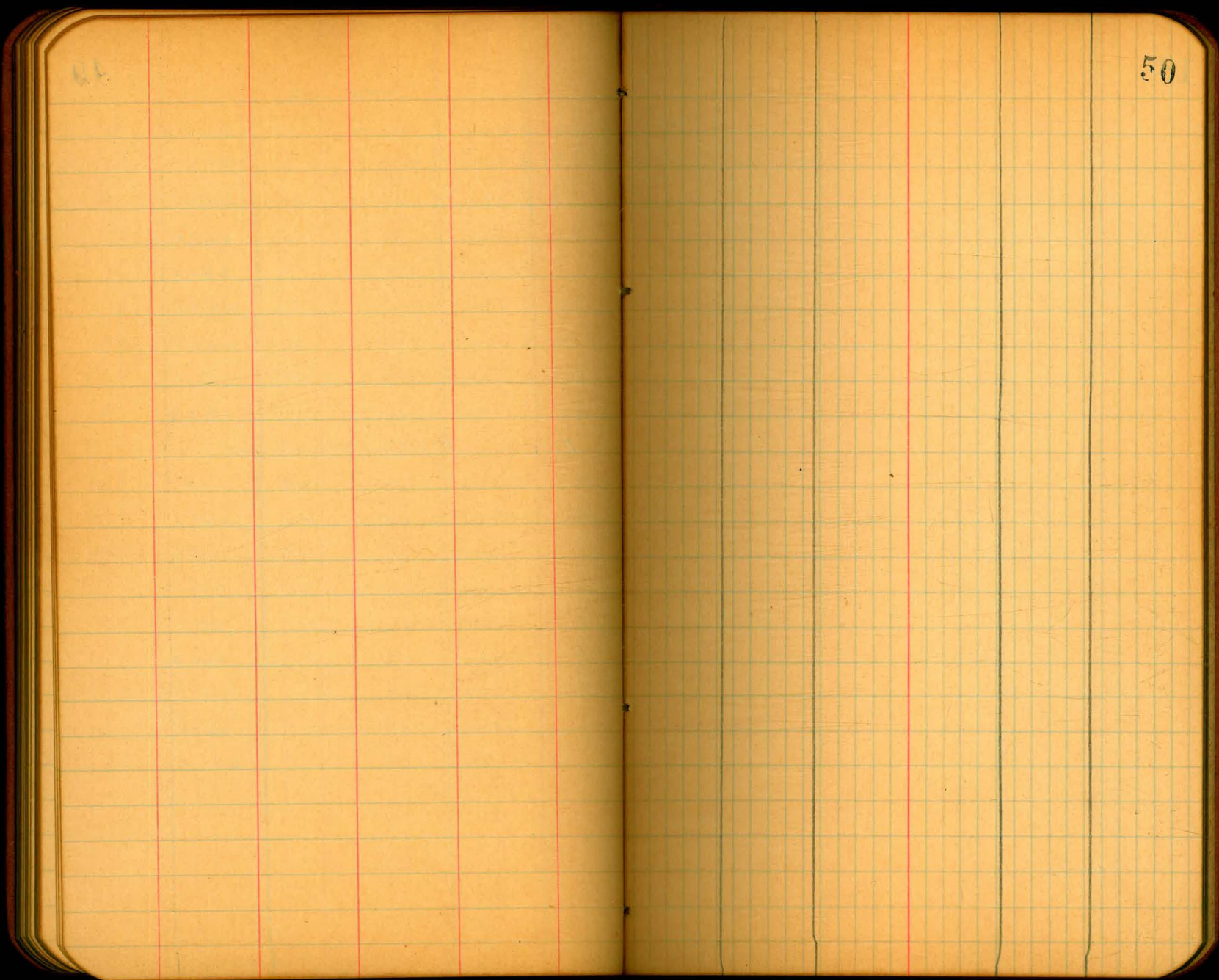
1+50

N	3.9	264.6
+2	5.0	263.5
cb	5.0	263.5
+1	5.5	263.0
"4	5.7	264.8
M	5.7	264.8
"4	6.0	262.5
cb	5.8	262.7
S	5.9	262.6

1+26 to 1+36 <sup>50</sup> = PARK Line

S	8.4	260.1
cb	8.3	260.2
+1	8.9	259.6
"4	8.8	259.7
M	8.4	260.1
"4	8.1	260.4
+3	8.1	260.4
cb	7.5	261.0
"4	7.3	261.2





50



50

51



52

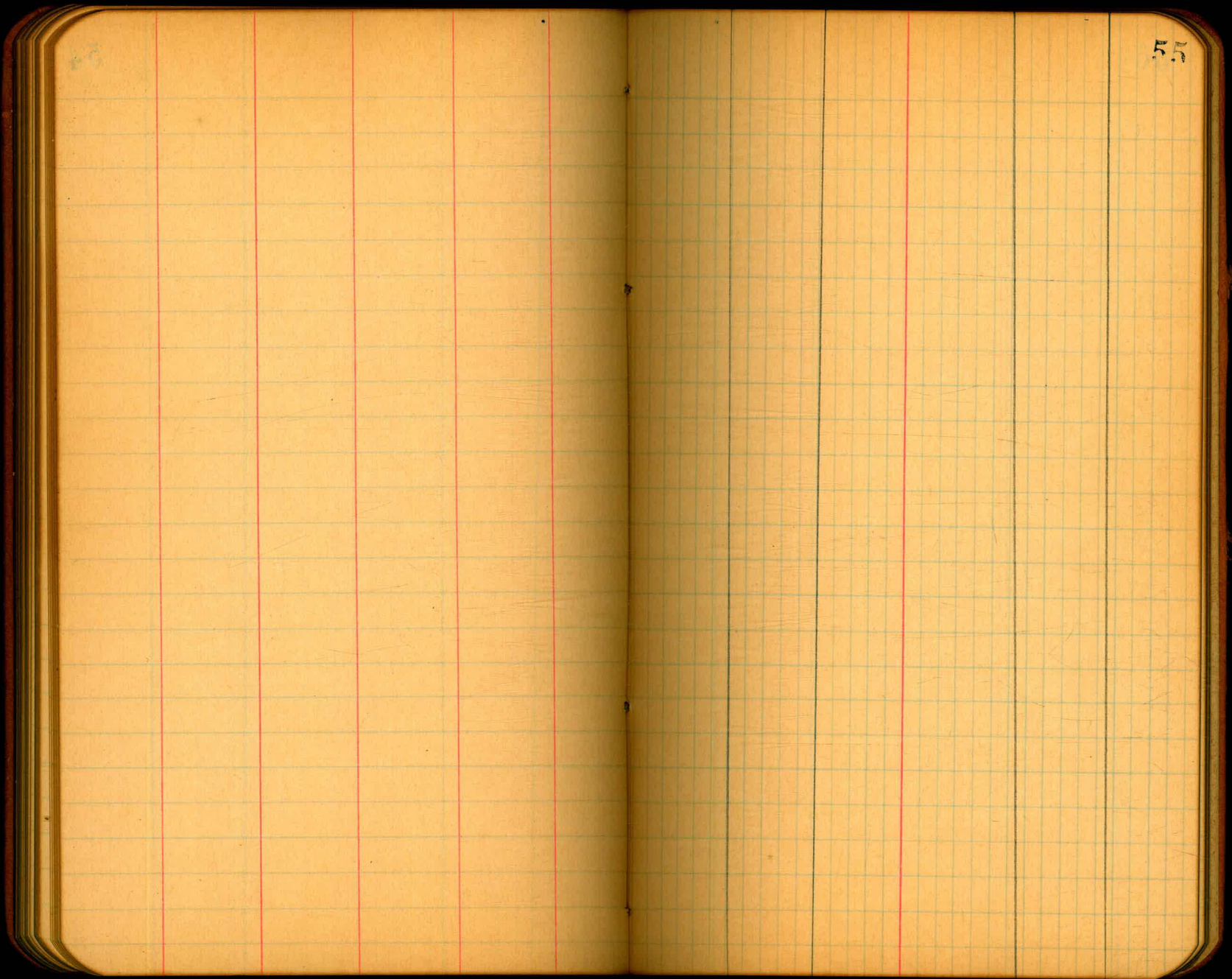


53



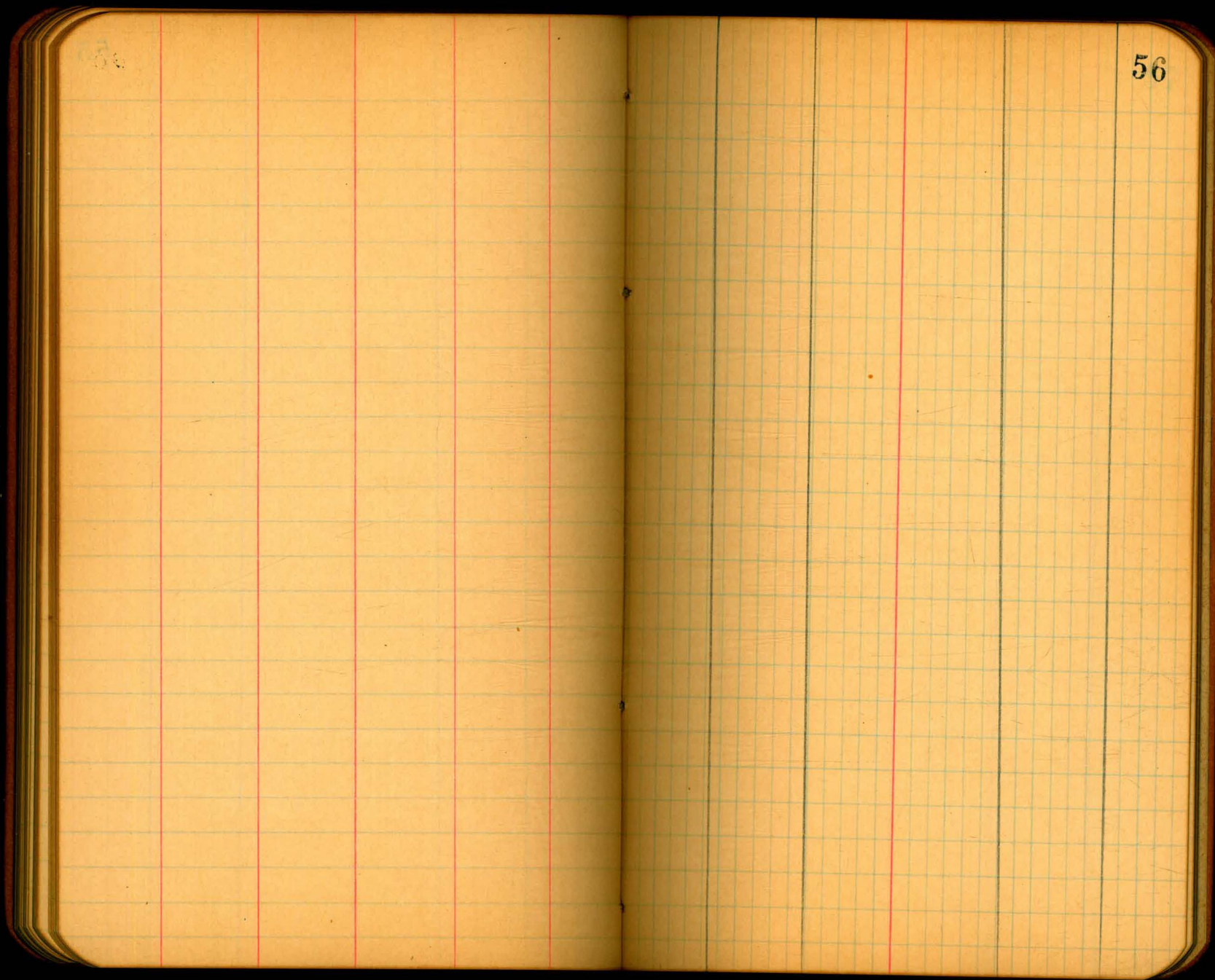






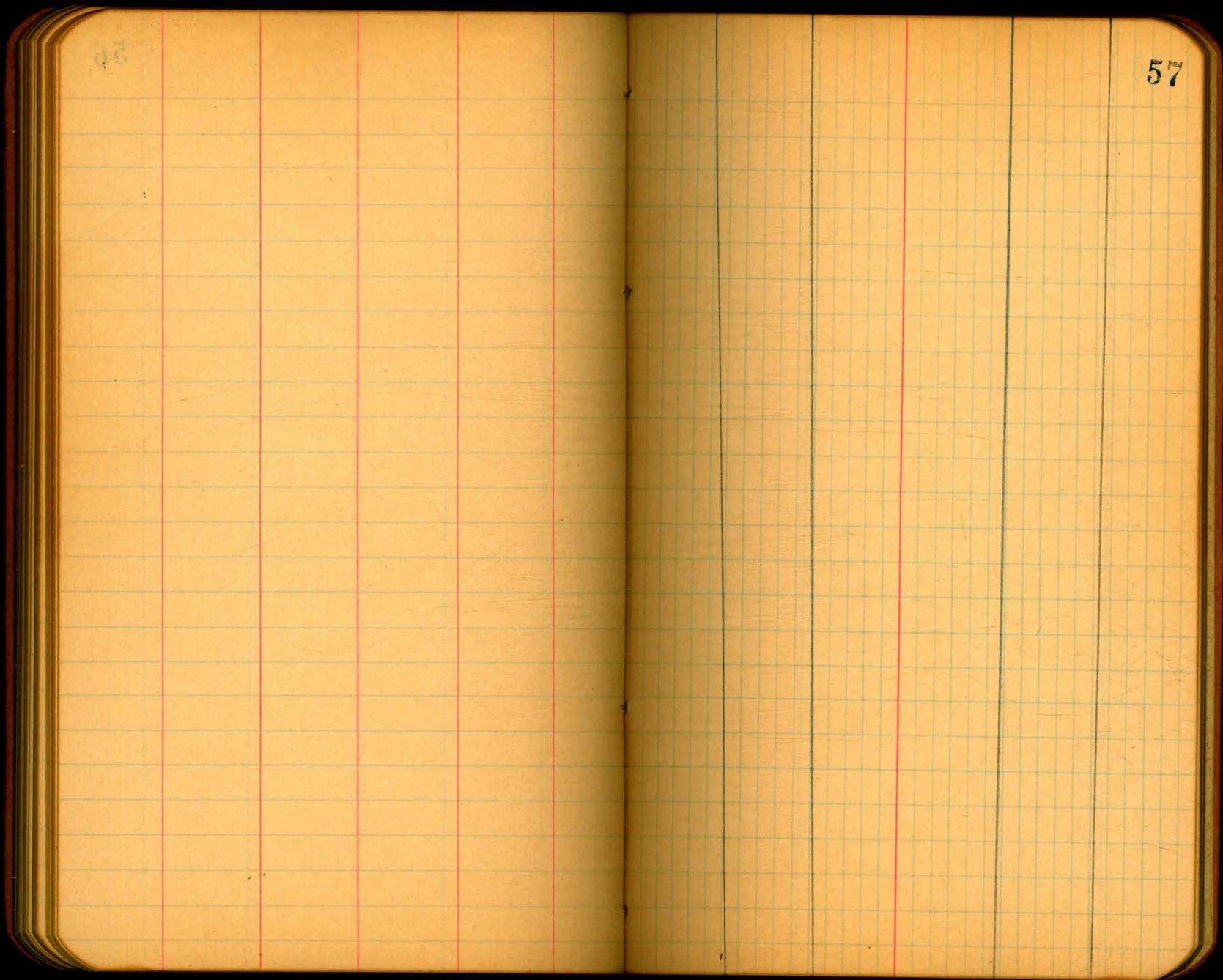
25





56





57



58



58

59



60



61





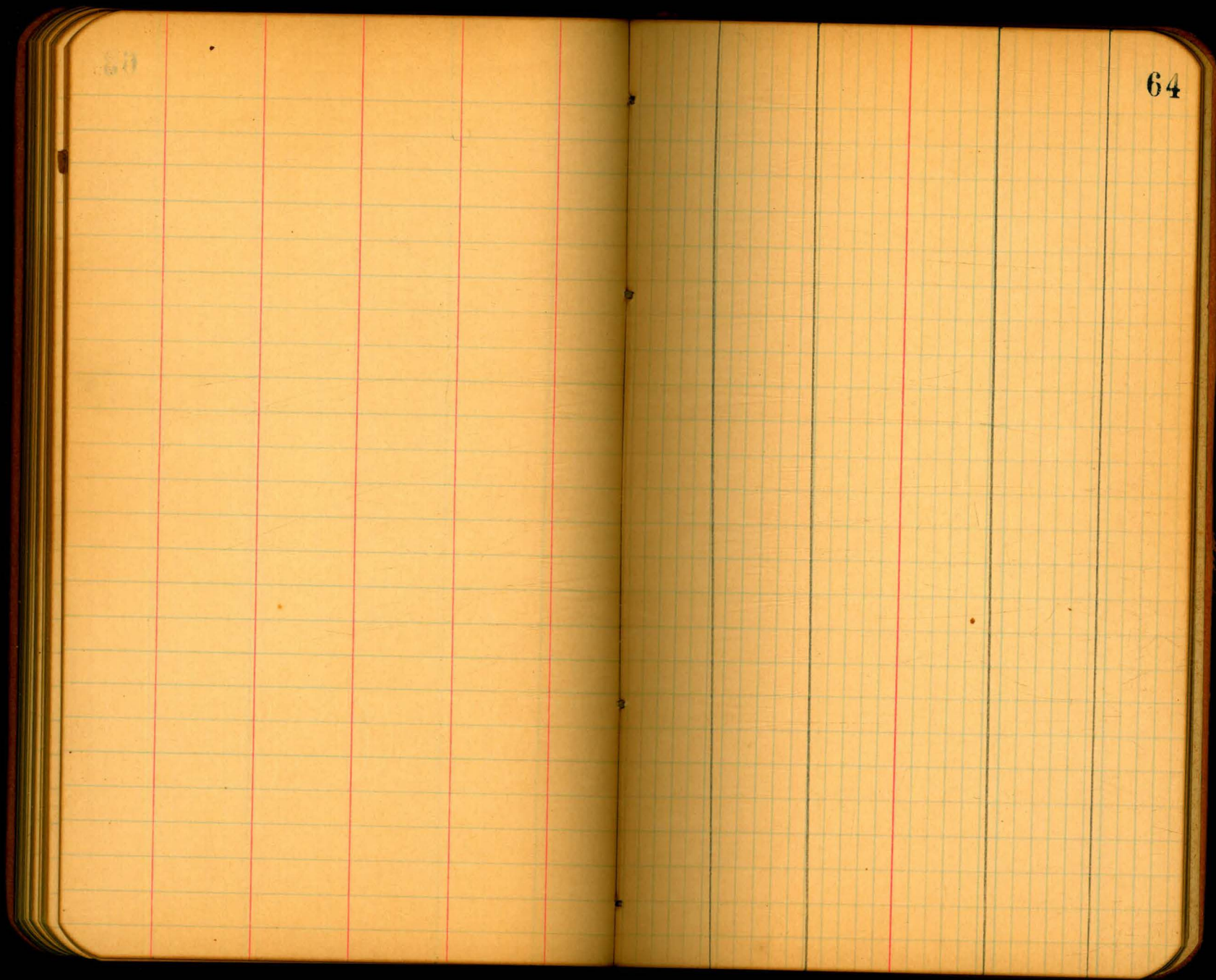


50

7

63





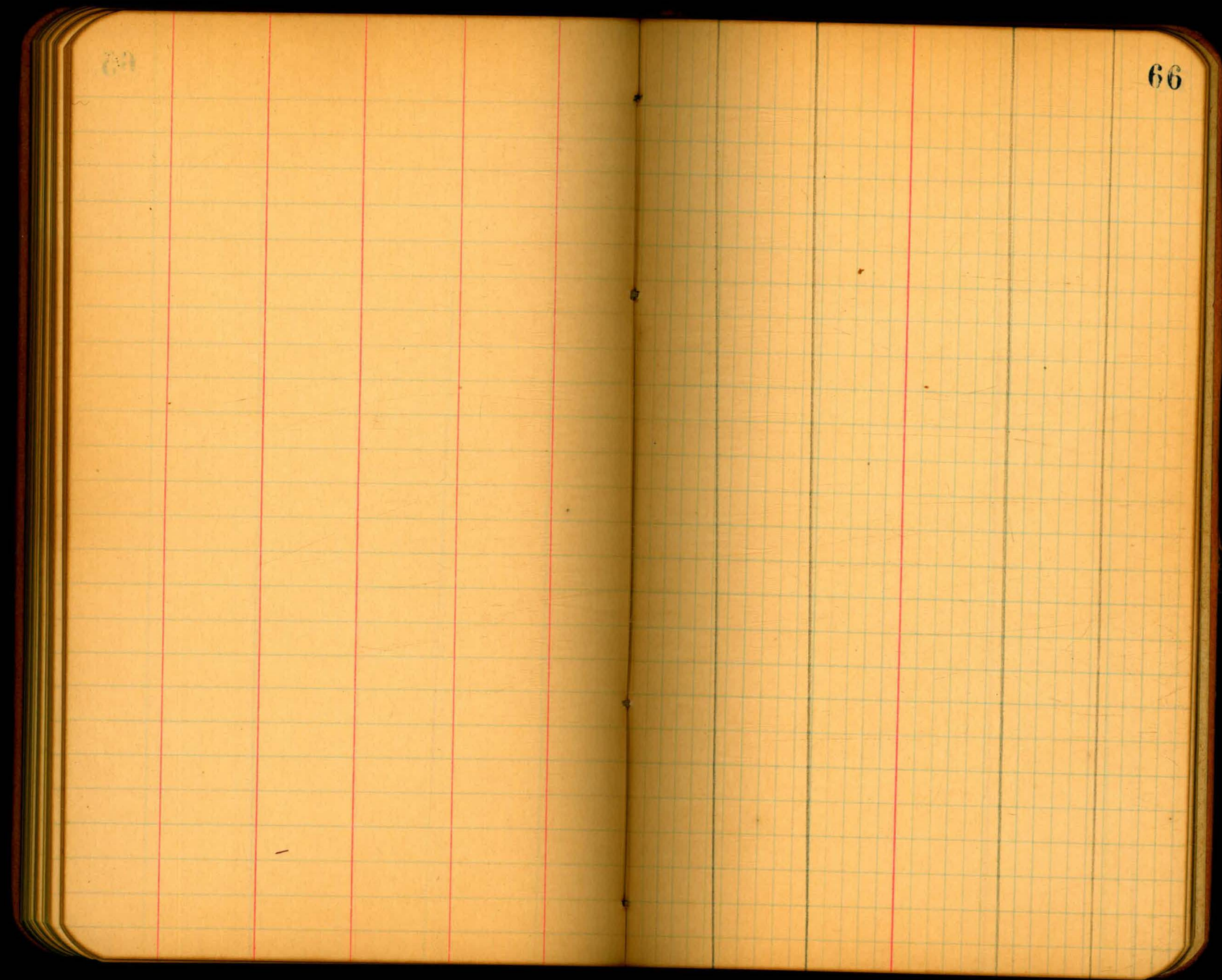
63

64



65





65

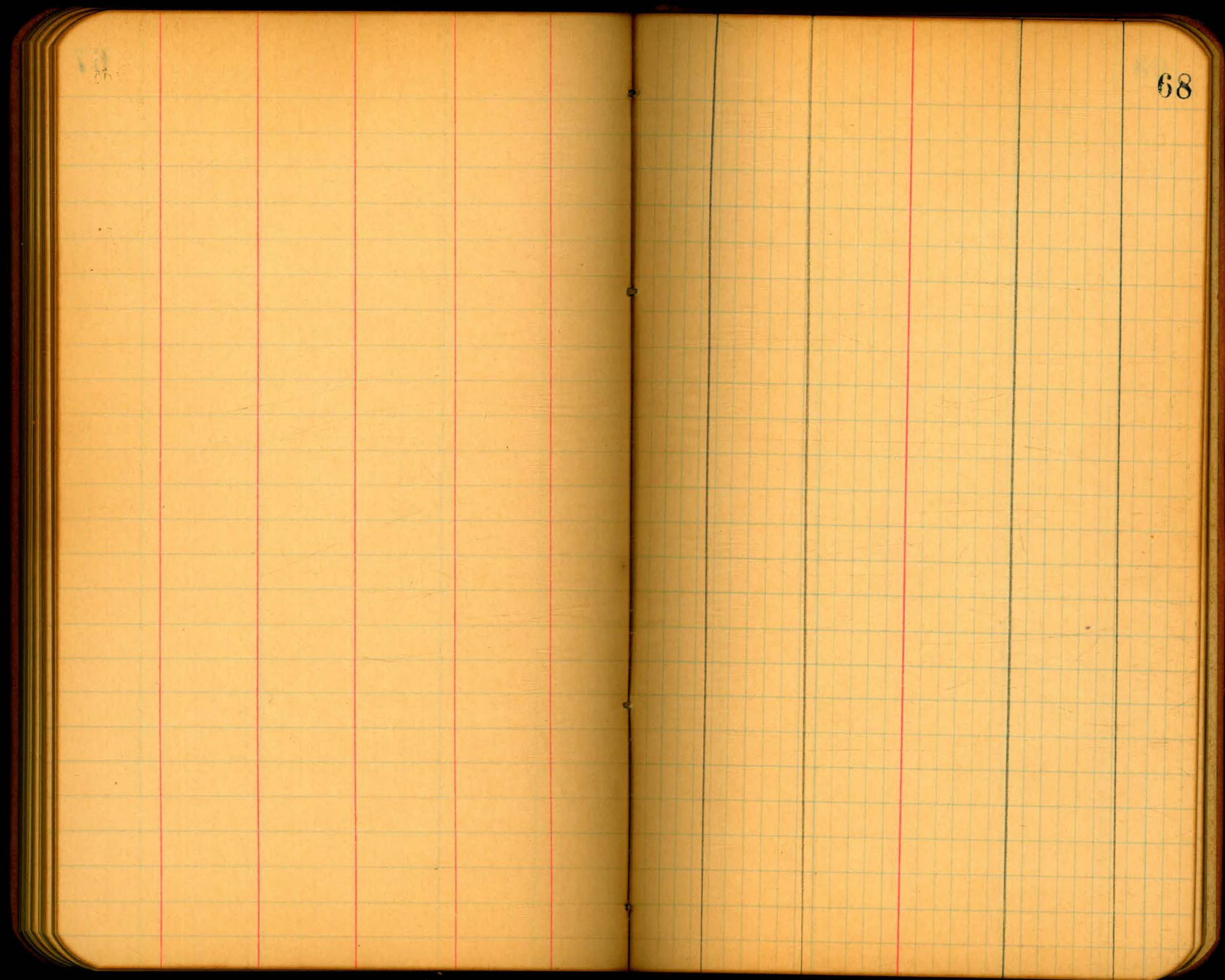
66



66

67





68



68

69



68

70

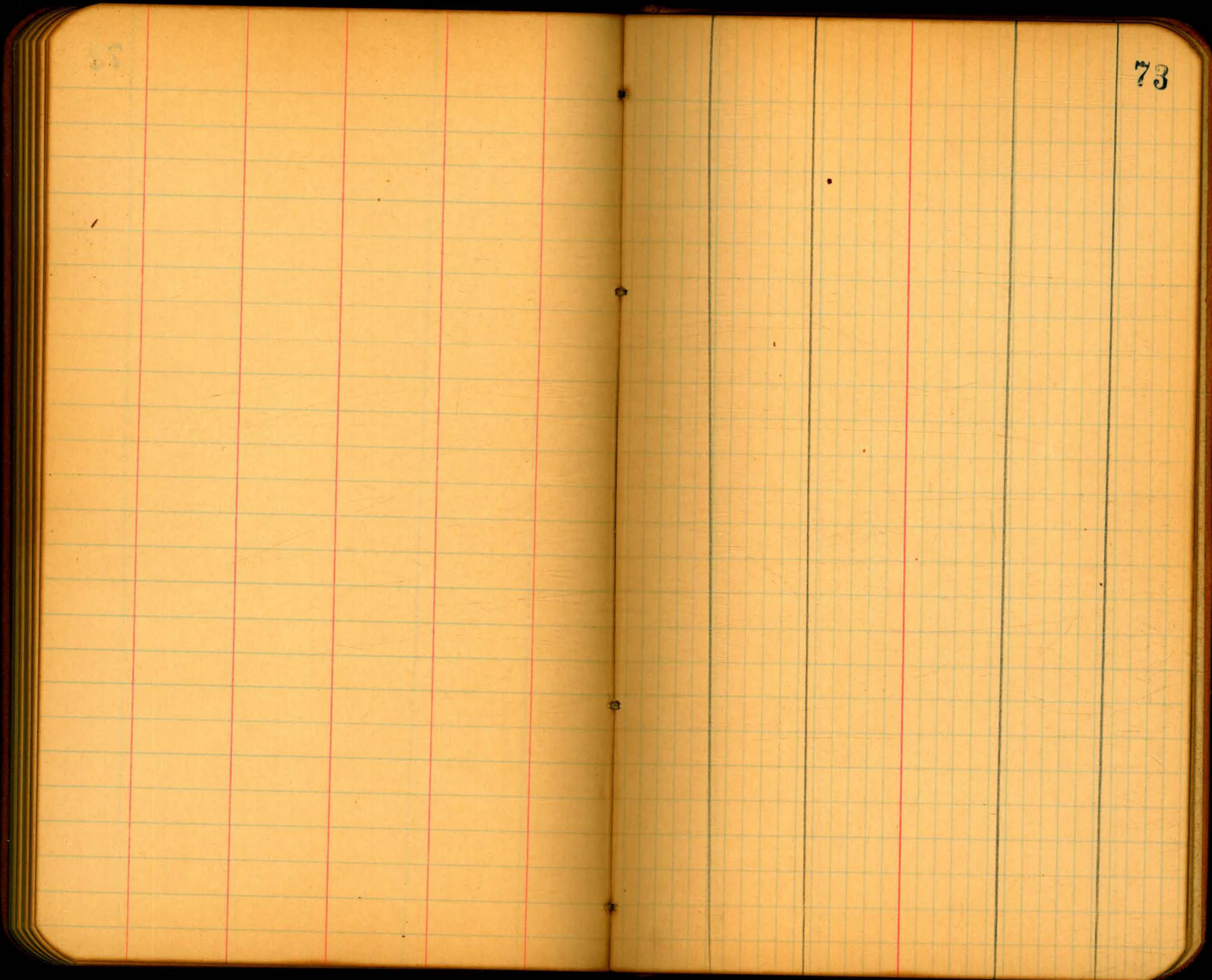












68

73



65

74



75

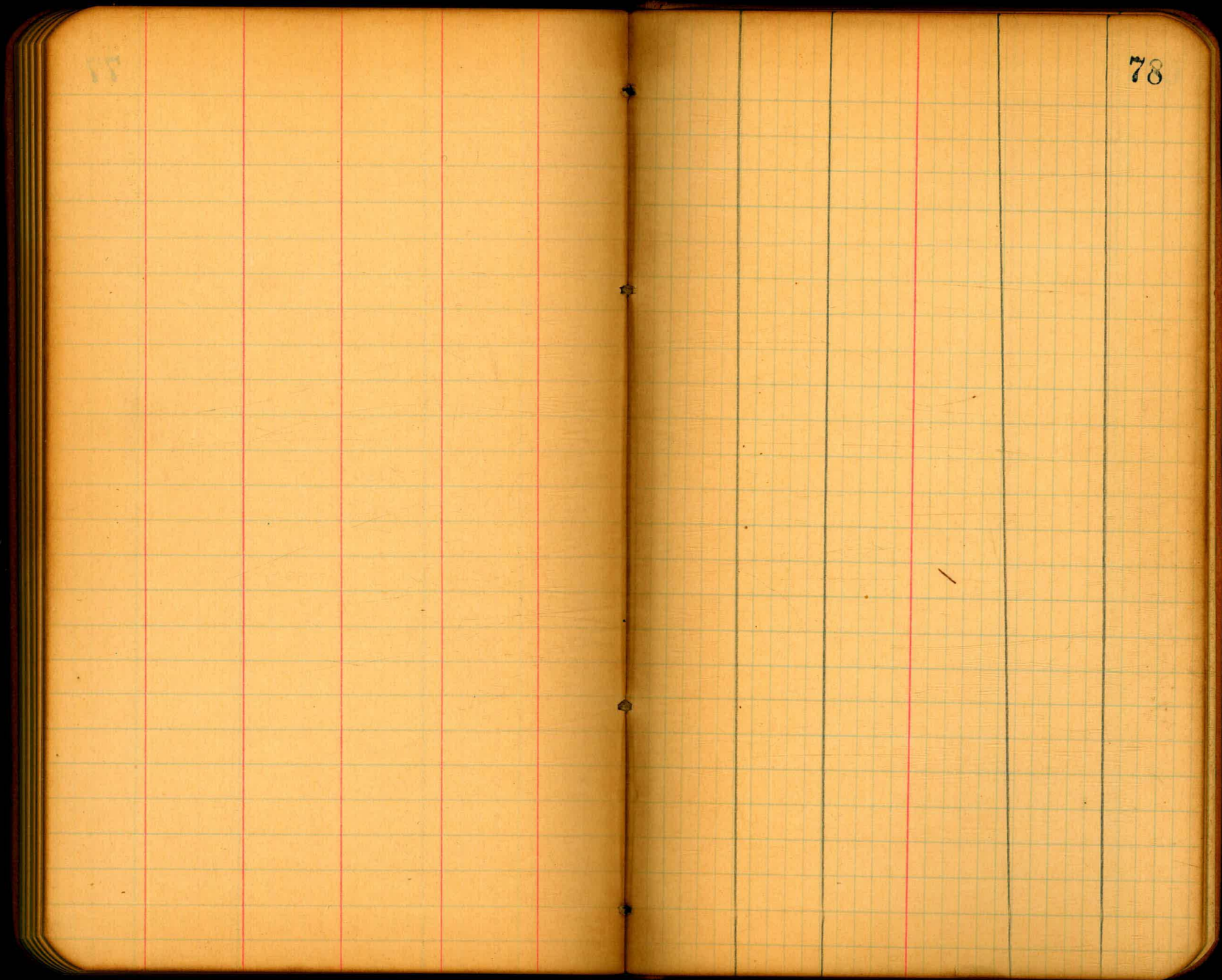


76



77

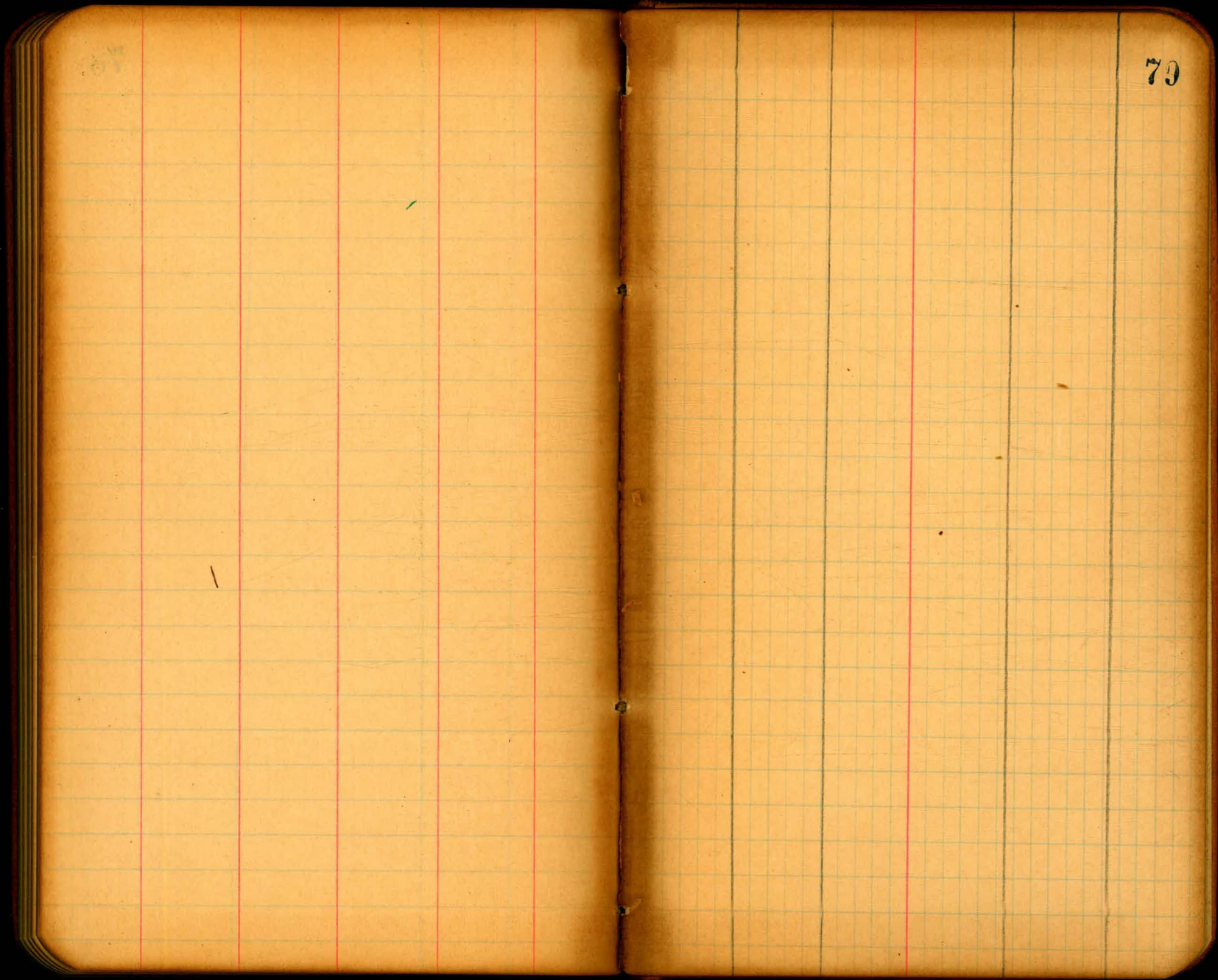




77

78





79





1868



28.5  
 52.0  
 34.5  
 16.5  
 5.0  
 11.5  
 28.5  
 15.5  
 1.0

108.20  
 2.99  
 107.93  
 4135  
 7244  
 101.70  
 9.46  
 87.97  
 90.42

67.96  
 11.12  
 66.84  
 10.26  
 77.10  
 0.77  
 76.33  
 13.26  
 89.39  
 0.54  
 88.25  
 5.68  
 94.53  
 99.01  
 2.57  
 96.44  
 76.38  
 63.25  
 13.13  
 76.68  
 63.25  
 13.43

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 Materials, and Mathematical Instruments, San Francisco.

Table showing the difference of latitude and departure in  
 running 80 chains at any course from 1 to 60 minutes.

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2 $\frac{1}{2}$	21	49	41	95 $\frac{3}{4}$
2	4 $\frac{1}{2}$	22	51 $\frac{1}{2}$	42	98
3	7	23	53 $\frac{1}{2}$	43	100 $\frac{1}{4}$
4	9 $\frac{1}{2}$	24	56	44	102 $\frac{1}{2}$
5	11 $\frac{1}{2}$	25	58 $\frac{1}{2}$	45	105
6	14	26	60 $\frac{1}{2}$	46	107 $\frac{1}{4}$
7	16 $\frac{1}{2}$	27	63	47	109 $\frac{1}{2}$
8	18 $\frac{1}{2}$	28	65 $\frac{1}{2}$	48	112
9	21	29	67 $\frac{1}{2}$	49	114 $\frac{1}{4}$
10	23 $\frac{1}{2}$	30	70	50	116 $\frac{1}{2}$
11	25 $\frac{1}{2}$	31	72 $\frac{1}{2}$	51	119
12	28	32	74 $\frac{1}{2}$	52	121 $\frac{1}{4}$
13	30 $\frac{1}{2}$	33	77	53	123 $\frac{1}{2}$
14	32 $\frac{1}{2}$	34	79 $\frac{1}{2}$	54	126
15	35	35	81 $\frac{1}{2}$	55	128 $\frac{1}{4}$
16	37 $\frac{1}{2}$	36	84	56	130 $\frac{1}{2}$
17	39 $\frac{1}{2}$	37	86 $\frac{1}{2}$	57	133
18	42	38	88 $\frac{1}{2}$	58	135 $\frac{1}{4}$
19	44 $\frac{1}{2}$	39	91	59	137 $\frac{1}{2}$
20	46 $\frac{1}{2}$	40	93 $\frac{1}{2}$	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the  
 number of links to be added to a chain on the slopes, to make one  
 chain, horizontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07