

800

**F.B.800** Office  
Use

TRANSIT

398

Office Use  
Only

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

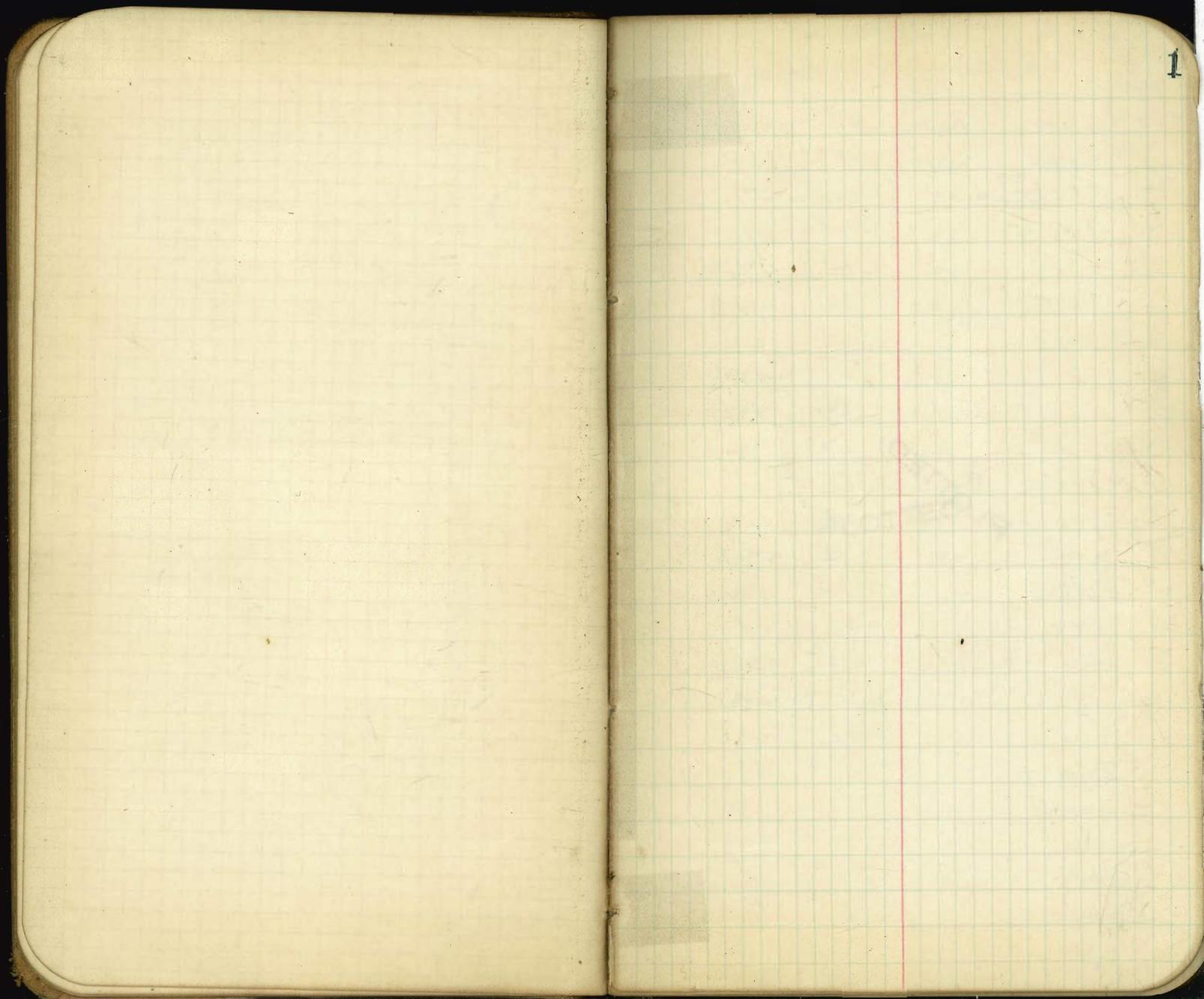
MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2 $\frac{1}{2}$	21	49	41	95 $\frac{1}{2}$
2	4 $\frac{1}{2}$	22	51 $\frac{1}{2}$	42	98
3	6 $\frac{1}{2}$	23	53 $\frac{1}{2}$	43	100 $\frac{1}{2}$
4	8 $\frac{1}{2}$	24	56	44	102 $\frac{1}{2}$
5	11 $\frac{1}{2}$	25	58 $\frac{1}{2}$	45	105
6	14	26	60 $\frac{1}{2}$	46	107 $\frac{1}{2}$
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 $\frac{1}{2}$
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 $\frac{1}{2}$
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 $\frac{1}{2}$
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 $\frac{1}{2}$
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						
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

4.51  
6.51



1

Cleary  
 7th  
 - Bell  
 X Sec of Arista 11-50  
 Rd of Chestnut to Rd Boyd

	10.94	22601		215.07
South (N.) d.m.b.	12.88	23774	113	224.88
	<b>S</b> Sec of Chestnut			
E			1.0	236.7
bl			1.5	276.7
y			1.8	479.9
b			3.0	234.7
y			4.1	277.6
bl			5.5	272.2
W			6.7	231.0
	25' PLOTTED Chestnut			
W			7.8	229.9
bl			6.2	271.5
y			5.3	277.2
b			4.3	233.2
y			3.6	276.1
bl			2.6	274.1
E			2.0	235.7

**PLOTTED**

23774

Amended  
2

max  
links  
whitman

	50' S of Chestnut		
E		36	234.1
bl		44	477.7
y		47	277.8
b		5.8	231.9
y		6.9	270.8
bl		7.4	270.7
W		8.6	229.1

	75' S of Chestnut		
W		10.5	227.2
bl		9.5	278.2
y		10.9	278.7
b		8.2	229.5
y		6.6	271.1
bl		6.3	271.2
E		5.2	232.5

**PLOTTED**

	100' S of Chestnut		
E		7.0	230.7
bl		8.2	279.5
y		8.3	279.2
b		9.6	238.1
y		10.4	277.3
bl		11.1	276.6
W		12.5	225.2

13774

	125'	S of Chestnut		
N			143	223.0
hh			128	226.9
y			119	225.8
b			108	226.9
y			96	228.1
hh			94	228.3
E			84	229.3

150' S of Chestnut

E			104	227.3
hh			112	226.5
y			113	226.4
TP	1,82		1096	226.78
b			36	225.0
y			40	224.6
hh			44	224.7
W			58	222.3

175' S of Chestnut

W			70	221.6
hh			56	222.0
y			50	222.6
b			47	223.9
y			34	224.9
hh			30	225.6
E			22	226.4

22860

Amfruden

3

200' S of Chestnut

E			31	225.5
hh			42	226.2
y			45	226.1
b			55	223.1
y			59	227.7
hh			59	227.7
W			71	221.5

225' S of Chestnut

W			80	220.6
hh			63	224.3
y			60	224.6
b			58	222.8
y			50	222.6
hh			47	223.9
E			42	224.4

250' S of Chestnut

E			53	223.3
hh			57	222.9
y			59	222.7
b			59	222.7
y			64	222.2
hh			65	222.1
W			79	220.7

22860

275 S of Chestnut

N	71	221.5
W	65	221.1
E	64	221.1
S	63	221.3
NE	60	221.6
SE	62	221.2
SW	60	221.6

300 S = 72 of Whitman (50)

E	66	222.0
W	65	221.1
N	65	221.1
S	64	221.2
NE	65	221.1
SE	66	221.0
SW	67	221.9

2 bl of Whitman

N	68	221.8
W	67	221.9
E	67	221.9
S	67	221.9
NE	67	221.9
SE	67	221.9
SW	67	221.9

PLOTTED

22860

N 1/4 of Whitman

E	70	221.6
W	68	221.8
N	65	221.1
S	67	221.9
NE	67	221.9
SE	67	221.9
SW	70	221.6

Center of Whitman

N	67	221.9
W	69	221.7
E	69	221.6
S	70	221.6
NE	70	221.6
SE	72	221.0
SW	72	221.4

PLOTTED

S 1/4 of Whitman

E	74	221.2
W	72	221.0
N	72	221.0
S	71	221.5
NE	71	221.5
SE	69	221.7
SW	69	221.7

Amphidex

4

22860

S line of Whitman

W	65	221.1
ll	68	221.8
y	70	221.6
b	71	221.5
y	71	221.5
ll	72	221.4
E	73	221.3

S line of Whitman

E	75	221.1
ll	72	221.2
y	70	221.6
b	69	221.7
y	66	221.0
ll	64	221.3
W	60	221.6
TP	680	221.80

PLOTTED

Along T.P. = 221.95 - 221.41 distance by bench from ... This sample ...

	303	224.88	221.95
+25			
ll	2.4	221.5	
ct	2.8		
1/4	3.2		
c	3.4	221.5	
1/2	3.6		
ct	3.8		

HEI  
22488

5

B.L.	4.2	220.7
+100		
B.L.	4.2	220.7
ct	4.1	
1/4	4.0	
c	3.7	221.2
1/2	3.5	
ct	3.2	
OK L.	2.5	221.4
+75		
OK L.	2.0	221.9
ct	3.2	
1/2		
c	2.8	221.1
1/2	4.0	
ct	4.1	
B.L.	4.5	220.4
+100		
B.L.	5.2	219.7
ct	2.8	
1/4	3.3	
c	3.3	221.6
1/2	3.8	
ct	4.0	
OK L.	4.0	220.9
+125		
OK L.	3.7	221.2
ct	4.1	
1/4	3.8	

PLOTTED

	+	H.I.	-	
		224.88		218.8
C			2.5	218.8
1/4			2.9	
cb			11.0	
B.L.			6.1	218.8
#	0.93	212.85	12.96	211.92
at 1450 slope 20' East of East line			3.0	
1450				
B.L.			2.2	210.7
cb			1.3	
1/4			0.7	
c			0.7	212.2
1/4			1.1	
cb			2.0	
OK.L.			2.9	210.0
at 1450 slope 20' West of West line			3.1	
#	2.51	202.34	13.02	199.83
slope at 1475 - 20' West of West line			5.2	
1475				
OK.L.			4.1	198.2
cb			2.9	
1/4			2.4	
c			2.2	200.1
1/4			1.9	
cb			1.9	
B.L.			1.5	200.8
at 1475 slope 20' East of East line			1.1	
" 2400 " 25' " " " "			6.9	

PLOTTED

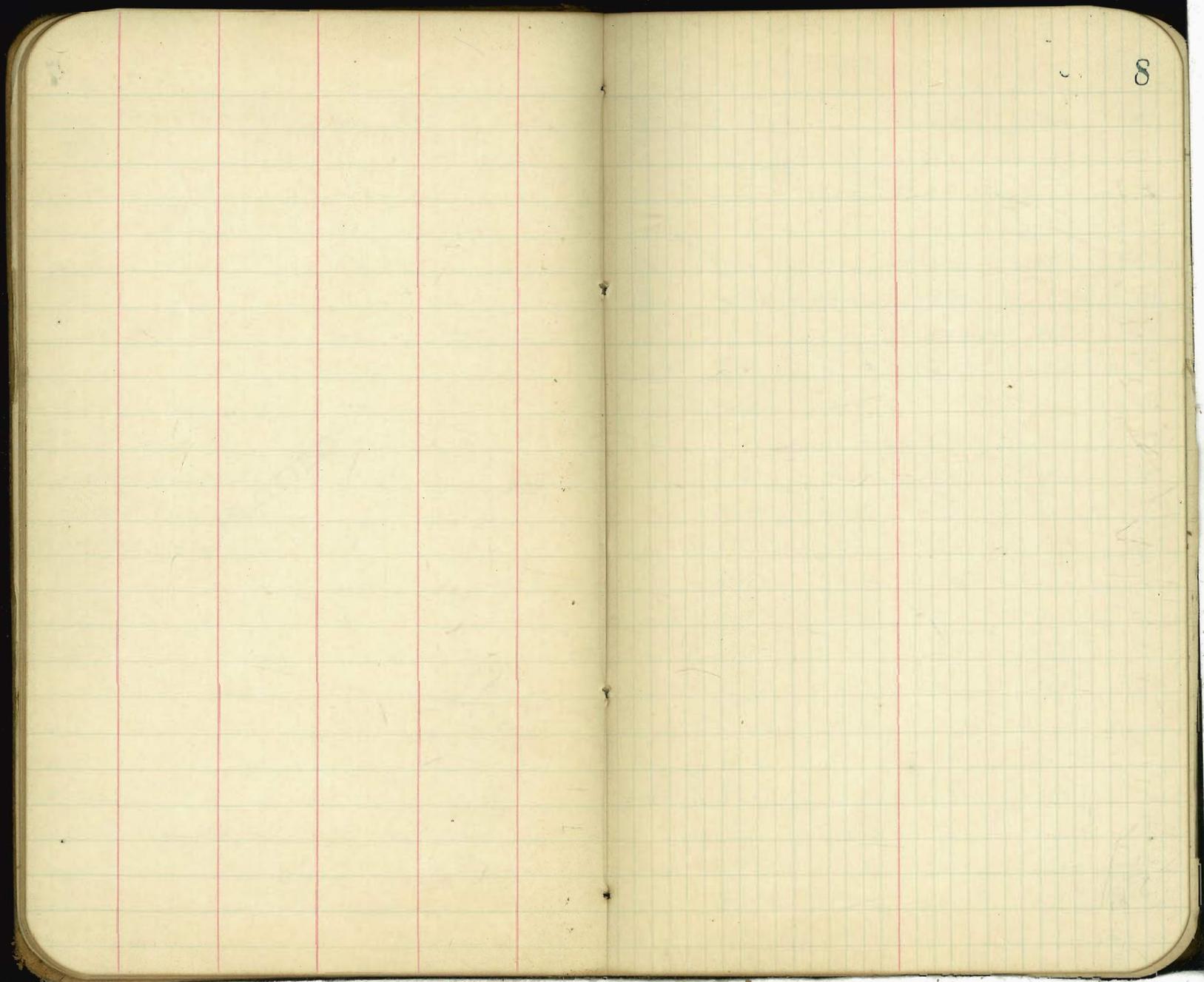
	+	H.I.	-	
		202.34		194.6
2400				
B.L.			7.7	194.6
cb			9.5	
1/4			10.2	
c			11.2	191.1
1/4			11.6	
cb			12.7	
OK.L.			15.0	189.3
at 2100 slope 30' OK. of OK. line			16.4	
#	1.82	191.36	12.80	189.54
at 2175 slope 30' OK. of OK. line			1.57	
2175				
OK.L.			10.6	180.8
cb			9.5	
1/4			7.3	
c			6.5	184.9
1/4			5.3	
cb			3.3	
B.L.			1.9	189.5
at 2175 slope 30' East of East line			1.4	
" 2450 " 30' " " " "			6.0	
2450				
B.L.			6.5	184.9
cb			9.3	
1/4			10.9	
c			12.8	178.6
1/4			15.0	
cb			17.4	

PLOTTED

	+	H.I.	-	Arith. M.
		191.36		80 - 100
OK. 2.			19.1	172.3
at 2100 slope 30' out of West line			20.0	
#	0.37	191.62	10.11	181.28
at 2175 slope 30' out of West line			26.00	
OK. 2.			19.3	162.3
cb			18.6	
1/4			11.0	
c			6.7	174.9
1/4			2.9	
cb			1.4	
E. 2.			0.5	181.1
at 2175 slope 30' East of East line			6.1	
3400 = North line of (2175)				
at 3100 slope 30' East of East line			6.6	
E. 2.			5.7	175.9
cb			6.0	
1/4			6.7	
c			7.9	173.7
1/4			10.3	
cb			14.1	
OK. 2.			20.5	161.1
at 3100 slope 30' out of West line			32.9	

4-15-12 {  
 4 - 15 - 12  
 4 - 15 - 12  
 4 - 15 - 12

7



8

Levels on curb showing broken or missing curb  
 H<sup>o</sup> of from 16<sup>th</sup> to 25<sup>th</sup> St.

B.M. B.P.N.E. 16<sup>th</sup> St. 35.45

B.M. 12.07 47.52

0+0 = E.L. 16<sup>th</sup> St.

S. side

1475 R.M.S.

1475 R.M.S.

Note - no curb bet 3<sup>rd</sup> 1432 & 1437 and bet 1435 & 1438 account

Traces

N.X

12.1 35.4 11 low

S

12.1 35.1 11 low

0+25

S

12.0 35.5 11 low

N

11.8 35.7

0+50

N

11.5 36.0

S

11.6 35.9

0+75

S

11.3 36.2

N

11.3 36.2

1+0

N

11.0 36.5

S

11.1 36.4

1+25

S

10.9 36.6 11 low

N

10.8 36.7

1+50

N

10.5 37.0

S

10.6 36.9

47.52

1+75

10.4 37.1 11 low

10.3 37.2

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

10.1 37.4

10.1 37.4

0+0 = E.L. 17<sup>th</sup> St

8.1 39.4 11 low

8.1 39.4 11 low

0+25

6.9 40.6 11 low

6.8 40.7 11

0+50

5.4 41.1

5.5 41.0

0+75

4.2 43.3 11 low

4.1 43.4

1+0

2.8 44.7

2.8 44.7

1+25

1.6 45.9 11 low

1.6 45.9 11 low

		47.52		
		1+50		
S			0.2	49.3
N			0.2	49.3
T.P.	11.97	59.29	0.20	47.32
		1+75		
N			10.6	48.7
S			10.8	48.5
		2+0 = W.L. 18 <sup>th</sup>		
S			9.3	50.0
N			9.3	50.0
		0+0 = E.L. 18 <sup>th</sup>		
N			8.3	51.0
S			8.4	50.9
		0+25		
S			6.6	54.7
N			6.3	53.0
		0+50		
N			4.2	55.1
S			4.8	54.5
		0+75		
S			3.0	56.3
N			2.2	57.1
		1+0		
N			0.1	59.2
S			1.1	58.2
T.P.	10.64	69.87	0.06	59.33

		69.87		
		1+25		
S			9.9	60.0
N			8.7	61.2
		1+50		
N			6.6	63.3
S			8.2	61.7
		1+75		
S			6.4	65.5
N			4.5	65.4
		2+0 = W.L. 19 <sup>th</sup> St.		
N			2.5	67.4
S			4.5	65.4
		0+0 = E.L. 19 <sup>th</sup>		
		Note - jog in grade on S. side of sta 1+00		
S			2.4	67.5
N			-0.5	69.4
T.P.	11.90	81.30	2.97	69.90
		0+25		
N			9.7	71.6
<del>S</del>			11.8	69.5
		0+50		
S			9.7	71.6
N			7.4	73.9
		0+75		
N			5.2	76.1
S			9.7	73.6

67.33

10

H. High

H. High

H. High

H. High

101

81.30  
140

S 5-jog 5.5  
5.0 75.8  
N 2.8 76.3 .5 high  
78.5 .2 high

1425

N 0.8 80.5  
S 3.2 78.1 .3 high  
T.P. 12.89 93.09 1.10 80.30

1450

S 13.1 80.0  
N 10.6 82.5

1775

S 5.6 84.5 .3 low  
3.1 86.0 .4 high

2+0 = W.L. 20<sup>th</sup> ST (Pet OK)

S 9.3 85.8 .4 low  
N 6.7 (Pet out) 86.4 .6 low

0+0 = E.L. 30<sup>th</sup> ST

N 3.2 89.9  
S 6.1 87.0

0+25

S 1.6 88.5  
N 1.6 91.5

0+50

N 0.1 93.0  
S 2.9 90.2

T.P. 12.46 103.52 2.03 91.06

11

103.52  
0+75

S 11.7 91.8  
N 9.0 94.5

140

N 7.6 95.9  
S 10.2 93.3 .2 low

1725

S 2.4 95.1  
N 6.1 97.4

1450

N 4.6 98.9  
S 6.8 96.7

1775

S 5.2 98.3  
N 3.1 100.4

2+0 = W.L. 21<sup>st</sup> ST

N 1.6 101.9  
S 3.6 99.9

T.P. 13.12 115.03 1.62 101.90  
E.L. 21<sup>st</sup> ST

S 12.0 103.0  
N 10.1 104.9

0+25

N 8.9 106.1  
S 10.8 104.2

	115.03			
	0+50			
S		9.5	105.5	
N		7.6	107.4	
	0+75			
N		6.9	108.6	
S		8.4	106.6	
	1+0			
S		7.0	108.0	
N		5.2	109.8	1/2 hour
	1+25			
N		4.0	111.0	3/4 hour
S		5.8	109.2	
	1+50			
S		4.5	110.5	
N		2.7	112.3	1/2 hour
	1+75			
S		1.5	113.5	1/2 hour
S		3.3	111.7	
	2+0 = 1.22 <sup>nd</sup> ST			
S		2.1	112.9	
N		0.1	114.9	
T.P.	8.90	123.78	0.15	114.88
	0+0 = E.L. 22 <sup>nd</sup> ST			
N		7.8	116.0	
S		9.7	114.1	

	123.78			
	0+25			
S		9.2	114.6	
N		7.9	116.4	Went in st 80g.
	0+50			
N		6.8	117.0	
S		8.9	114.9	
	0+75			
S		8.9	115.4	
N		6.2	117.6	
	1+0			
N		5.5	118.3	
S		7.8	116.0	
	1+25			
S		7.4	116.4	
N		4.9	118.9	
	1+50			
N		4.3	119.5	
S		6.8	117.0	
	1+75			
S		6.4	117.4	
N		3.7	120.1	
	2+0			
N		3.1	120.7	
S		5.9	117.9	

12

1745  
1456  
hydroponic  
1/2 hr



14

S  
N

N  
S

S  
N

N  
S

S  
N

N  
S

T.P.  
S

N  
S

		144.43		
	2+0			
S		8.2	136.2	
N		5.9	138.5	v low
	2+25			
N		4.8	139.6	v low
S		7.0	137.4	
	2+50			
S		5.9	138.5	v low
N		3.6	140.8	
	2+75			
N		2.4	142.0	
S		4.8	139.6	v low
	3+0			
S		3.5	140.9	
N		1.3	143.1	
	3+25			
N		0.1	144.3	
S		2.4	142.0	v low
T.P.	12.51	155.78	143.27	
	3+50	1.16		
S		12.5	143.3	
N		10.2	145.6	
	3+75			
N	6.7/0	9.0	146.8	
S		11.3	144.5	

cut on 78 side 8" north  
30" gutter from S.

↑

155.78

4+0

N  
S (N)

S (N)  
N (S)

N (S)  
S (N)

S (N)  
N (S)

N (S)  
S (N)

S (N)  
N (S)

T.P.  
N (S)

S (N)  
N (S)

N (S)  
S (N)

S (N)  
N (S)

		155.78		
	4+0			
N		10.2	145.6	
S (N)		7.9	147.9	
	4+25			
S (N)		6.7	149.1	
N (S)		9.1	146.7	
	4+50			
N (S)		7.9	147.9	
S (N)		5.6	150.2	
	4+75			
S (N)		4.4	151.4	
N (S)		6.7	149.1	
	5+0			
N (S)		5.5	150.3	
S (N)		3.2	152.6	v high
	5+25			
S (N)		2.4	153.4	v high
N (S)		4.4	151.4	
T.P.	7.27	140.35	152.56	
	5+50	3.22		
N (S)		7.8	152.6	
S (N)		5.7	154.6	
	5+75			
S (N)		4.6	155.8	
N (S)		6.7	153.7	
N (S)		5.4	155.0	
S (N)		3.4	157.0	

6+01 = 11.1.25 B 5F

156.95

14

cut on north 20" gutter  
from 3+25 - 5+20 of R.H. 14.

14

15

Section of Oregon Mt. N.L. Adams  
 Evans to S.L. Copley 80' wide 14' ch 13' 1/4's

392.71

B.M. 7.40 392.71 385.31 SE 1/8

75' No.

N.L. ADAMS.

E	7.5	385.2
ch	8.0	384.7
1/4	8.3	384.4
C	7.9	384.8
1/4	8.2	384.5
ch	7.8	384.9
W	7.7	385.0

W.	7.1	385.6
ch	7.2	385.5
1/4	7.2	385.5
C	6.9	385.8
1/4	7.3	385.4
ch	7.1	385.6
E	6.6	386.1

25' No.

100' No.

W	7.8	384.9
ch	7.9	384.8
1/4	8.2	384.5
C	7.5	385.2
1/4	7.8	384.9
ch	7.6	385.1
E	7.2	385.5

E	6.6	386.1
ch	6.4	386.3
1/4	6.7	386.0
C	6.7	386.0
1/4	6.9	385.8
ch	6.2	386.5
W	7.0	385.7

50' No.

125' No.

E	7.4	385.3
ch	7.4	385.3
1/4	7.6	385.1
C	7.3	385.4
1/4	7.7	385.0
ch	7.4	385.3
W	6.6	386.1

W	5.2	387.5
ch	6.6	386.1
1/4	6.8	385.9
C	6.0	386.7
1/4	6.5	386.2
ch	6.1	386.6
E	6.5	386.2

71

392.71

150' No

E	6.4	386.3
ct	6.6	386.1
1/4	6.4	386.3
C	5.9	386.8
1/4	6.7	386.0
ct	6.5	386.2
W	6.4	386.3

175' No

W	5.9	386.8
ct	5.4	387.3
1/4	6.6	386.1
C	5.6	387.1
1/4	6.4	386.3
ct	6.2	386.5
E	5.6	387.1

200' No

E	6.2	386.5
ct	6.0	386.7
1/4	6.0	386.7
C	5.4	387.3
1/4	6.2	386.5
ct	5.5	387.2
W	5.8	386.9

392.71

225' No

W	6.1	386.6
ct	6.2	386.5
1/4	6.1	386.6
C	5.2	387.5
1/4	5.7	387.0
ct	5.1	387.6
E	5.7	387.0

250' No

E	5.6	387.1
ct	5.0	387.7
1/4	5.6	387.1
C	5.0	387.7
1/4	5.4	387.3
ct	4.7	388.0
W	5.1	387.6

275' No

W	5.5	387.2
ct	5.7	387.0
1/4	5.6	387.1
C	4.8	387.9
1/4	5.4	387.3
ct	5.6	387.1
E	5.6	387.1

17

392.71

300' No

E	4.0	388.7
cl	4.8	387.9
1/2	5.3	387.4
C	4.6	388.1
1/4	5.6	387.1
cl	5.4	387.3
W	4.1	388.6

325' No

W	5.1	387.6
cl	4.5	388.2
1/4	5.3	387.4
C	4.5	388.2
1/4	4.6	388.1
cl	4.4	388.3
R	4.2	388.3

350' No

E	5.0	387.7
cl	5.2	387.5
1/4	5.1	387.6
C	4.4	388.3
1/4	5.3	387.4
cl	4.2	388.5
W	4.6	388.1

375' No

W	4.8	387.9
cl	5.0	387.7
1/2	5.2	387.5
C	4.3	388.4
1/2	5.0	387.7
cl	4.1	388.6
E	4.3	388.4

400' No

E	3.5	389.2
cl	4.5	387.9
1/2	4.8	387.9
C	4.1	388.6
1/4	5.0	387.7
cl	5.1	387.6
W	4.9	387.8

425' No

W	5.0	387.7
cl	4.0	388.7
1/2	4.5	387.9
C	4.1	388.6
1/2	4.7	388.0
cl	4.2	388.5
E	4.6	388.1

18

392.71

450' No

E	4.6	388.1
cb	4.3	388.4
1/4	4.5	388.2
c	4.0	388.7
1/4	4.8	387.9
cb	3.5	389.2
W	4.7	388.0

475' No

W	4.6	388.1
cb	4.4	388.3
1/4	4.6	388.1
c	3.9	388.8
1/4	4.4	388.3
cb	3.5	389.2
E	4.4	388.3

500' No

E	3.6	389.1
cb	4.4	388.3
1/4	4.4	388.3
c	3.9	388.8
1/4	4.6	388.1
cb	4.0	388.7
W	4.6	388.1

19

535' No

W	4.1	388.6
cb	4.2	388.5
1/4	4.6	388.1
c	3.9	388.8
1/4	4.4	388.3
cb	4.2	388.5
E	4.3	388.4

550' No

E	4.3	388.4
cb	4.1	388.6
1/4	4.5	388.2
c	3.9	388.8
1/4	4.5	388.2
cb	3.3	389.4
W	3.6	389.1

575' No

W	3.9	388.8
cb	4.2	388.5
1/4	4.5	388.2
cb	3.9	388.8
1/4	4.4	388.3
cb	4.4	388.3
E	3.9	388.8

392.71

600' No. - S.L. COLLIER 80' WIDE

E	4.3	388.4
ch	4.5	388.2
1/4	4.6	388.1
C	4.0	388.7
1/4	4.4	388.3
ch	4.2	388.6
W	4.3	388.4

SO. CURB

W	4.3	388.4
ch	4.2	388.5
1/4	4.5	388.2
C	4.0	388.7
1/4	4.6	388.1
ch	4.5	388.2
E	3.9	388.8

SO. QUARTER

E	4.7	388.0
ch	5.1	387.6
1/4	4.6	388.1
C	4.0	388.7
1/4	4.6	388.1
ch	4.6	388.1
W	4.5	388.2

CENTER

20

W	4.0	388.7
ch	4.2	388.6
1/4	4.4	388.3
C	4.2	388.5
1/4	4.4	388.3
ch	4.3	388.4
E	4.1	388.6

No. QUARTER

E	4.9	387.8
ch	4.9	387.8
1/4	4.7	388.0
C	4.3	388.4
1/4	4.9	387.8
ch	4.7	388.0
W	4.5	388.2

No. CURB

W	4.6	388.1
ch	4.3	388.4
1/4	4.7	388.0
C	4.2	388.5
1/4	4.9	387.8
ch	4.7	388.0
E	4.8	387.9

392.71

## No. LINE COLLIER

E	4.2	388.5
cb	3.4	387.2
1/4	4.9	387.8
C	4.2	388.5
<del>cb</del>	4.9	387.8
cb	4.7	388.0
W	4.7	388.0

25' No

W	5.0	387.7
cb	4.9	387.8
1/4	5.1	387.6
C	4.2	388.5
1/4	4.9	387.8
cb	4.3	388.4
E	4.2	388.5

50' No

E	4.2	388.5
cb	4.9	387.8
1/4	4.2	388.5
C	4.0	388.7
1/4	4.9	387.8
cb	5.7	387.0
W	5.8	386.9

75' No

W	0.4	386.3
cb	5.4	387.3
1/4	4.8	387.9
C	3.7	389.0
1/4	4.8	387.9
cb	3.9	388.8
E	3.5	389.2

100' No

E	3.4	389.3
cb	3.1	389.6
1/4	4.2	388.5
C	3.6	389.1
1/4	4.7	388.0
cb	4.4	388.3
W	5.6	387.1

125' No

W	7.7	385.0
cb	6.2	386.5
1/4	4.9	387.8
C	3.4	389.3
1/4	3.9	388.8
cb	2.2	390.5
E	3.2	389.5

21

392.71

150' No

E	2.9	389.8
cb	2.0	390.5
1/4	3.8	388.9
C	3.4	389.3
1/4	4.0	388.7
cb	5.4	387.3
W	6.2	386.5

175' No

W	5.4	387.3
cb	4.4	388.3
1/4	3.6	389.1
C	2.9	389.8
1/4	3.4	389.3
cb	2.2	390.5
E	2.6	390.1

200' No

E	1.5	391.2
cb	1.2	391.5
1/4	3.1	389.6
C	2.6	390.1
1/4	3.1	389.6
cb	3.4	389.3
W	4.5	388.2

225' No

W	3.5	389.2
cb	2.8	389.9
1/4	2.6	390.1
C	2.2	390.5
1/4	2.8	389.9
cb	0.5	392.2
E	0.2	392.5

250' No

E	0.2	392.5
cb	1.3	391.4
1/4	2.4	390.3
C	1.8	390.9
1/4	2.3	390.4
cb	2.4	390.3
W	2.8	389.9

275' No

W	2.4	390.3
cb	2.1	390.6
1/4	2.1	390.6
C	1.7	391.0
1/4	2.0	390.7
cb	1.2	391.5
E	0.7	392.0

22

390.71

300' No. = S.L. COPLEY

E	0.8	391.9
cl	1.2	391.5
1/2	1.9	390.8
0	1.6	391.1
1/2	2.0	390.7
cl	1.9	390.8
1/2	2.1	390.6

23

## PARK BLVD. (UNIV AVE TO N. LINE - BALBOA PARK)

	E.	CURB	1/4	E	1/4	CURB	W
S LINE UNIV AVE ON EAST	315.05	315.80 315.13	315.43	315.40	315.03	315.00 314.33	315.25
0+25	314.57	315.32	314.93	314.90	314.50	314.45	314.70
0+50 (West)	315.10	314.85	314.43	314.40	313.77	313.90	314.15
0+75	314.62	314.37	313.93	313.90	313.44	313.35	313.60
1+0	314.14	313.89	313.43	313.40	312.91	312.80	313.05
1+25	313.67	313.42	312.93	312.90	312.24	312.25	312.60
1+50	313.19	312.94	312.43	312.40	311.95	311.70	311.95
1+75	312.71	312.46	311.93	311.90	311.22	311.15	311.40
NL 2+14 - ESSEX	311.97	311.72	311.18	311.01	310.98	310.30	310.55
NL ESSEX	311.97	311.72 311.05	311.18	311.01	310.48	310.30	310.55
N CURB	311.77	311.52	310.97	310.83	310.27	310.30 309.63	310.30 309.63
" 1/4	311.63	311.38	310.82	310.68	310.11	309.38	309.78
CENTER	311.49	311.24	310.67	310.53	309.95	309.13	309.80
S 1/4	311.35	311.10	310.52	310.38	309.79	309.88	309.28
" CURB	311.21	310.96	310.37	310.23	309.63	308.63 309.30	308.63 309.30
S.L ESSEX	311.02	310.10 310.77	310.16	310.04	309.41	309.30	309.55
S.L ESSEX	311.02	310.77	310.16	310.04	309.41	309.30	309.55
0+25 West	310.54	310.29	309.70	309.55	308.91	308.79	309.04
0+50	310.07	309.82	309.24	309.06	308.41	308.28	308.53
0+75	309.59	309.34	308.78	308.59	307.91	307.77	308.02

	E	CURB	1/4	E	1/4	CURB	W
1+0	307.21	308.96	308.32	308.08	307.41	307.25	307.5
1+25	308.74	308.47	307.86	307.59	306.91	306.74	306.1
1+50	308.26	308.01	307.40	307.16	306.41	306.23	306.4
1+75	307.78	307.53	306.94	306.67	305.91	305.72	305.7
2+0	307.31	307.06	306.48	306.22	305.41	305.20	305.4
2+25	306.83	306.58	306.02	305.63	304.91	304.69	304.9
2+50	306.36	306.11	305.56	305.14	304.41	304.18	304.4
2+75	305.88	305.63	305.10	304.65	303.91	303.67	303.7
3+0	305.40	305.15	304.64	304.16	303.41	303.15	303.4
3+25	304.93	304.68	304.18	303.67	302.91	302.64	302.8
3+50	304.45	304.20	303.63	303.07	302.30	301.92	302.17
SEC. A	304.25	303.33 304.20	303.28	302.80	302.03	299.93 301.60	301.85

	EL. OF INDIANA	G-GUTTER LINE	EL. OF PARK PUE	E CURB	E QUARTER	Q	W 1/4	W CURB	W LINE	W PARK
SEC A	305.06		304.25	304.00 303.33	303.23	302.80	302.03	301.60 299.93	301.85	
N CURB	304.81 304.14	304.00 303.33	304.00 303.33	303.17	303.01	302.58	301.85	301.60 299.93	301.60 300.93	
N 1/4	304.18	303.11	303.33	303.05	302.77	302.46	301.65	301.42	301.16	
E	303.90	302.92	303.00	302.78	302.55	301.24	301.47	301.26	301.05	
S 1/4	303.28	302.79	302.33	302.33	302.33	302.02	301.27	300.99	300.61	300.33
" CURB	302.33 303.00	302.54	301.97	302.05	302.12	301.20	301.08	300.76	299.83 300.50	299.83 300.50
S.L. ROBINSON	303.25	302.32 303.00	301.62	301.77	301.92	301.60	300.91	300.00 300.50	300.75	300.75
S.L. ROB.	303.25	303.00	301.62	301.77	301.92	301.60	300.91	350.00	300.25	300.75
SEC B	303.25	302.33 303.00	E 1/4 IND 302.58	CENT. IND 302.75	W 1/4 IND 302.05	W. CORNER 301.33 302.00	W. LINE 302.25			

	A	E	CURB	1/4	E	1/4	CURB	1/4
SEC C	302.38	302.25	302.00 301.33	301.41	301.25	300.71	300.50 299.73	300.75
" D	302.03	301.78	301.78	301.26	301.05	300.53	300.34	300.59
0+25 S ON WL FROM SEC D	301.89	301.64	301.64	301.12	300.92	300.40	300.22	300.47
0+50	301.75	301.50	301.50	300.98	300.77	300.27	300.09	300.34
+75	301.61	301.36	301.36	300.84	300.62	300.14	299.97	300.22
+100	301.47	301.22	301.22	300.70	300.53	300.04	299.84	300.09
+125	301.33	301.08	301.08	300.56	300.40	299.85	299.72	299.97
+149.24-W +171.12-E	301.19	300.94	300.94	300.42	300.27	299.75	299.59	299.84
0+25 ON E	301.06	300.81	300.81	300.30	300.14	299.62	299.47	299.72
0+50	300.93	300.68	300.68	300.18	300.01	299.59	299.34	299.59
0+75	300.80	300.55	300.55	300.06	299.88	299.46	299.22	299.47
+100	300.67	300.42	300.42	299.94	299.75	299.33	299.09	299.34
+125	300.57	300.32	300.32	299.82	299.62	299.20	298.97	299.22
+160.24 ON E +184.30 ON W	300.42	300.17	300.17	299.68	299.49	298.98	298.80	299.05
N. LINE PENN.	300.42	300.17	300.17	299.68	299.49	298.98	298.80	299.05
N. CURB	300.36	300.11	300.11	299.62	299.43	298.92	298.80 298.18	298.80 298.13
" 1/4	300.31	300.06	300.06	299.57	299.37	298.86	298.03	298.53
E	300.26	300.01	300.01	299.52	299.31	298.80	297.93	298.40
S 1/4	300.21	299.96	299.96	299.47	299.25	298.74	297.83	298.33
" CURB	300.16	299.91	299.91	299.42	299.19	298.68	297.78 298.40	297.78 298.40
S. LINE PENN.	300.11	299.86	299.86	299.36	299.13	298.61	298.40	298.65

	E	CURB	1/4	1/2	3/4	CURB	W
S.L. PENN	300.11	299.86	299.36	299.13	298.41	298.40	298.65
CTR CURB SEC E - (S. of Sec E) 0+25 ON EL	310.16	299.81	299.31	299.07	298.54	298.33	298.58
0+50	299.90	299.65	299.13	298.87	298.32	298.09	298.34
0+75	299.82	299.57	299.04	298.77	298.21	297.97	298.22
1+0	299.74	299.49	298.95	298.67	298.10	297.85	298.10
1+25	299.66	299.41	298.86	298.57	297.99	297.73	297.98
1+50	299.58	299.33	298.77	298.47	297.88	297.61	297.86
1+75	299.50	299.25	298.68	298.37	297.77	297.49	297.74
2+0	299.42	299.17	298.59	298.27	297.66	297.37	297.62
2+25	299.34	299.09	298.50	298.17	297.55	297.25	297.50
2+50	299.28	299.03	298.41	298.07	297.44	297.14	297.39
2+75	299.20	298.95	298.32	297.98	297.35	297.05	297.30
N.L. CYPRESS	299.25	299.00	298.33	298.00	297.33	297.00	297.25
N.L. CYPRESS	299.25	299.00	298.33	298.00	297.33	297.00	297.25
N. CURB	299.00	299.00	298.24	297.91	297.24	297.00	297.00
" 1/4	298.33	298.33	298.16	297.83	297.16	296.33	296.33
" 1/2	298.71	298.20	298.16	297.83	297.16	296.70	296.71
" 3/4	298.75	298.08	298.08	297.75	297.08	296.08	296.75
S. 1/4	298.46	297.96	298.00	297.67	297.00	295.96	296.46
" CURB	297.83	297.83	297.92	297.59	296.92	295.83	296.50
S. LINE CYPRESS	298.75	298.50	297.83	297.50	296.83	296.50	296.75
S.L. CYPRESS	298.75	298.50	297.83	297.50	296.83	296.50	296.75
0+50 (SOF)	298.52	298.27	297.60	297.27	296.60	296.27	296.52

18

28

	E	CURB	1/4	1/2	3/4	CURB	WT
1+0	298.28	298.03	297.36	297.03	296.36	296.03	296.28
1+50	298.05	297.80	297.13	296.80	296.13	295.80	296.05
2+0	297.81	297.56	296.89	296.56	295.89	295.56	295.81
2+50	297.58	297.33	296.66	296.33	295.66	295.33	295.58
3+0	297.34	297.09	296.42	296.09	295.42	295.09	295.34
3+19.94-NL BROOKES	297.25	297.00	296.33	296.00	295.33	295.00	295.25
NL-BROOKES	297.25	297.00	296.33	296.00	295.33	295.00	295.25
N-CURB	297.17	296.92	296.25	295.92	295.25	295.00	295.00
" 1/4	297.11	296.86	296.23	295.93	295.29	295.04	294.83
" 1/2	297.04	296.79	296.18	295.90	295.28	295.14	295.00
S 1/4	296.98	296.73	296.13	295.84	295.24	295.05	294.83
" CURB	296.91	296.66	296.08	295.82	295.25	295.00	294.83
S.L-BROOKES	296.85	296.60	296.03	295.80	295.23	295.00	295.25
S.L-BROOKES	296.85	296.60	296.03	295.80	295.23	295.00	295.25
0+50	297.00	296.75	296.18	295.95	295.38	295.15	295.46
1+0	297.16	296.91	296.34	296.11	295.54	295.31	295.56
1+50	297.31	297.06	296.49	296.26	295.69	295.46	295.71
2+0	297.47	297.22	296.65	296.42	295.85	295.62	295.87
2+50	297.62	297.37	296.80	296.57	296.00	295.77	296.02
3+0	297.78	297.53	296.96	296.73	296.16	295.93	296.18
3+19.72-NL MYRTLE	297.85	297.60	297.03	296.80	296.23	296.00	296.25

	E.	CURB	1/4	1/2	3/4	CURB
N.L.MYRTLE	297.65	297.60	297.03	296.40	296.23	296.00
N. CURB	297.60 296.90	297.60 296.90	297.10	296.87	296.30	296.00 295.33
" 1/4	297.53	297.35	297.17	296.94	296.37	296.15
1/2	297.80	297.52	297.24	297.00	296.44	296.34
S 1/4	297.73	297.55	297.37	297.07	296.50	296.32
" CURB	297.33 296.00	297.33 296.00	297.38	297.14	296.57	295.73 296.48
S.L.MYRTLE	298.25	298.00	297.43	297.20	296.63	296.46
S.L.MYRTLE	296.25	296.00	297.48	297.20	296.63	296.40
0x50	297.88	297.63	297.12	296.95	296.44	296.27
1x0	297.51	297.26	296.81	296.70	296.24	296.13
1x50	297.14	296.89	296.50	296.45	296.05	296.00
2x0	296.77	296.52	296.19	296.20	295.86	295.86
2x50	296.40	296.15	295.88	295.95	295.66	295.73
3x6	296.03	295.78	295.57	295.70	295.46	295.59
3x38.15 IN EL 3x38.41 W.L. = N.L.VPAS	295.75	295.50	295.33	295.50	295.33	295.50
N.L.VPAS	295.75	295.50	295.33	295.50	295.33	295.50
N. CURB	295.50 294.83	295.50 294.83	295.19	295.35	295.12	295.50 294.83
" 1/4	295.18	294.67	295.06	295.18	294.73	294.49
1/2	295.17	294.50	294.92	295.01	294.74	294.16
S 1/4	294.83	294.33	294.79	294.84	294.55	293.83
" CURB	294.16 294.83	294.16 294.83	294.65	294.67	294.36	293.50 294.17
S.L.VPAS ENT. PARK	295.08	294.83	294.52	294.50	294.17	294.17

W.
296.25
296.00 295.33
295.93
296.20
296.13
295.73 296.48
296.65
296.65
296.52
296.38
296.25
297.11
295.98
295.84
295.75
295.75
295.50 294.83
294.98
294.84
294.33
293.50 294.17
294.42





## 14 WALKS - 13' QUARTERS.

CEDAR STREET - W LINE 7<sup>TH</sup> TO E LINE 6<sup>TH</sup>

	S	CURB	¼	½	¼	CURB	N
W LINE 7 <sup>TH</sup>	157.25	159.00	158.58	158.56	158.08	158.00	158.25
50' W.	150.75	150.50	150.26	150.39	150.15	150.25	150.50
100 "	142.25	142.00	141.95	142.26	142.21	142.50	142.75
150 "	133.75	133.50	133.64	134.13	134.27	134.75	135.00
190 "	126.95	126.70	126.99	127.63	127.92	128.55	128.80
1 E LINE 200 - 6 <sup>TH</sup> ST	125.25	125.00	125.33	126.00	126.33	127.00	127.25

## 14' WALKS - 13' QTRS

BEECH - E LINE 6<sup>TH</sup> TO 100' E.

	N.	CURB	¼	½	¼	CURB	S.
E LINE 6 <sup>TH</sup>	116.25	116.00	115.33	115.00	114.33	114.00	114.25
25' E	120.94	120.69	120.02	119.69	119.02	118.69	118.94
50' E	125.63	125.38	124.71	124.38	123.71	123.38	123.63
100 "	135.00	134.75	134.08	133.75	133.08	132.75	133.00

14' WALKS - 13' QTRS.

ASH - W. LINE 7<sup>TH</sup> TO E. LINE 5<sup>TH</sup> - 6<sup>TH</sup> ST. INTERS. EXCEPT

	S	CURB	¼	½	¾	CURB	N
W. LINE 7 <sup>TH</sup>	129.25	129.00	129.58	130.50	131.25	132.00	132.25
50' W.	121.25	121.00	121.57	122.37	123.02	123.75	124.00
100' "	113.25	113.00	113.45	114.25	114.79	115.50	115.75
150' "	105.25	105.00	105.39	106.12	106.56	107.25	107.50
175' "	101.25	101.00	101.36	102.06	102.45	103.13	103.38
200' <sup>E. LINE</sup> <sub>- LGTH</sub>	97.25	97.00	97.33	98.00	98.33	99.00	99.25

Grade changed 9-8-19 see below

W. LINE 6 <sup>TH</sup>	97.25	97.00	97.33	98.00	98.33	99.00	99.25
5' W.	96.77	96.52	96.86	97.53	97.84	98.54	98.79
50' W.	92.50	92.25	92.61	93.32	93.68	94.39	94.64
100' "	87.75	87.50	87.89	88.63	89.02	89.76	90.01
150' "	83.00	82.75	83.17	83.94	84.36	85.13	85.38
200' <sup>E. LINE</sup> <sub>"- 5<sup>TH</sup> ST</sub>	78.25	78.00	78.45	79.25	79.70	80.50	80.75

Grades for Ash St. from W. 6<sup>th</sup> to 25' East

W. line 6 <sup>th</sup>	97.25	97.00	97.33	98.00	98.33	99.00	99.25
5' W.	96.87	96.62	97.00	97.71	98.09	98.80	
25' W.	95.31	95.06	95.66	96.55	97.11	98.00	

15<sup>TH</sup> ST. FROM SoL.M TO No. L N.

	E	CURB	¼	¢	¼	CURB	W
So. LINE M	8.25	8.00	7.83	8.00	7.83	8.00	8.25
25' - So.	8.16	7.91	7.74	7.90	7.71	7.87	8.12
50' - "	8.08	7.83	7.65	7.80	7.60	7.75	8.00
75' - "	8.00	7.75	7.55	7.69	7.48	7.62	7.89
100' - "	7.91	7.66	7.46	7.59	7.37	7.50	7.75
125' - "	7.83	7.58	7.36	7.48	7.25	7.37	7.62
150' - "	7.75	7.50	7.27	7.38	7.14	7.25	7.50
175' - "	7.66	7.41	7.17	7.27	7.02	7.12	7.37
200' - "	7.58	7.33	7.08	7.17	6.91	7.00	7.25
225' - "	7.50	7.25	6.98	7.06	6.79	6.87	7.12
250' - "	7.41	7.16	6.89	6.96	6.68	6.75	7.00
275' - "	7.33	7.08	6.79	6.85	6.56	6.62	6.87
300' - " N. H. LINE	7.25	7.00	6.70	6.75	6.45	6.50	6.75

ALLEY-24<sup>TH</sup> TO 25<sup>TH</sup> - BET B. & C.

	N.	Q	S
E. LINE 24	181.02	180.67	180.98
3'-E.	181.41	181.06	181.38
50' "	187.57	187.23	187.58
80' "	191.58	191.17	191.50
85' "	191.70	191.37	191.71
125' "	193.30	192.97	193.30
150' "	194.30	193.97	194.30
175' "	195.14	194.81	195.14
200' "	195.98	195.65	195.98
234' "	197.13	196.79	197.12
260' "	198.00	197.67	198.00
300' "	198.49	198.13	198.46
350' "	199.11	198.71	199.04
390' " *	199.50	199.17	199.50
445' "	198.16	197.83	198.10
500' "	196.83	196.50	196.69
550' "	195.61	195.28	195.42
(E. LINE 60' 25 <sup>TH</sup> )	194.38	194.05	194.12

36

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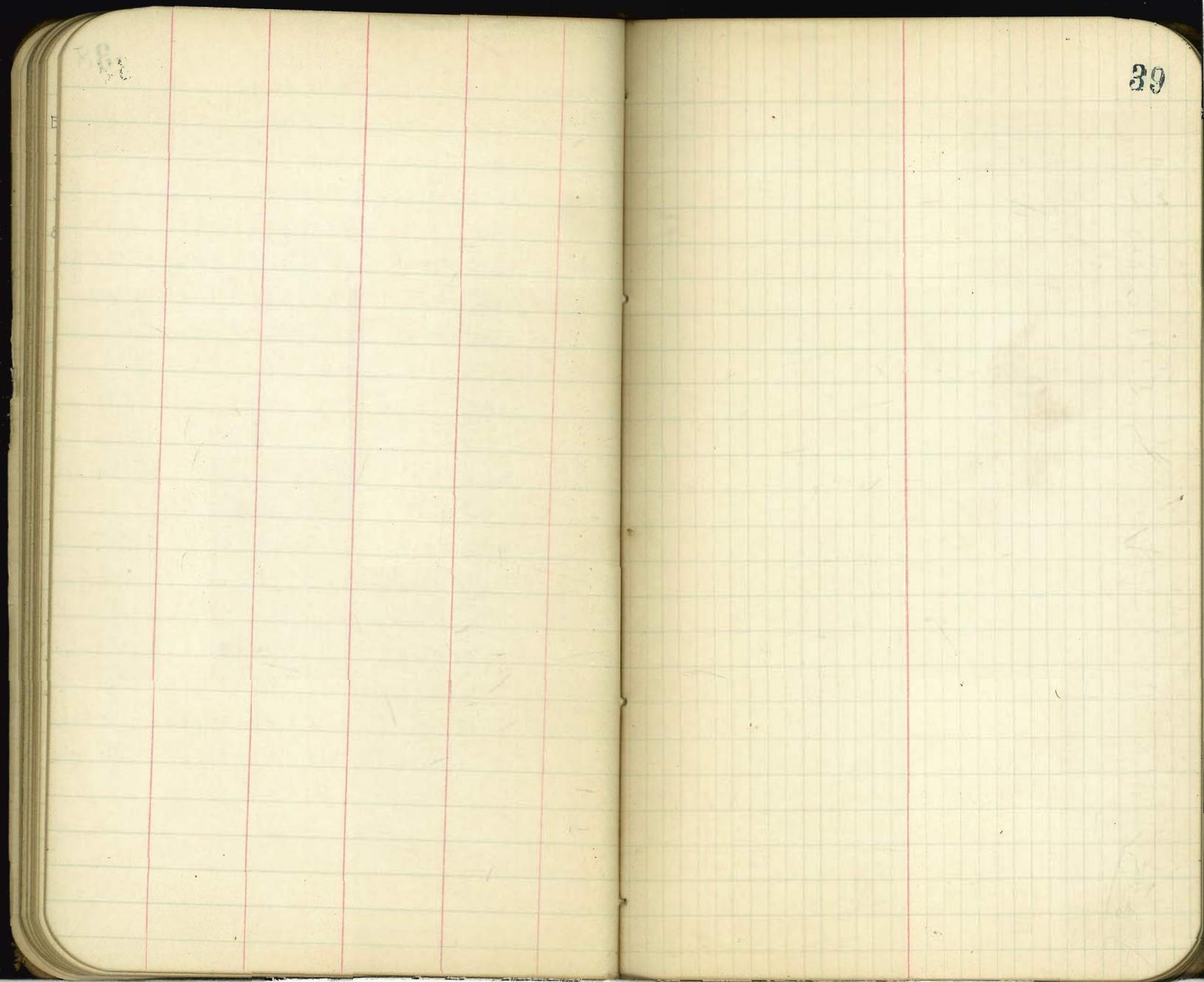
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37

	W.	CURB	1/4	1/2	3/4	CURB	To SEC G.F. 89.6' - No
SEC B.A	30.20	30.04	31.88	32.72	33.56	34.40	35.25
E No 1/4	29.70	30.31	30.92	31.53	32.14	32.73	33.37
" Cb.	28.70 29.70	29.17	29.64	30.11	30.58	31.05	31.50 32.50
SEC D.C	29.75	29.70	30.40	31.10	31.80	32.50	32.75
" D.E	29.95	29.70	30.16	31.15	31.63	32.59	32.84
25' No D.E	30.40	30.15	30.51	31.45	31.84	32.74	32.99
38' No D.E	30.63	30.38	30.70	31.60	31.95	32.82	33.07
55' " "	30.94	30.69	30.93	31.80	32.10	32.93	33.18
SEC G.J	31.15	30.90	31.10	31.95	32.20	33.00	33.25
" G.F.	31.15	30.90	31.29	32.12	32.49	33.34	33.59

COAST BOULEVARD

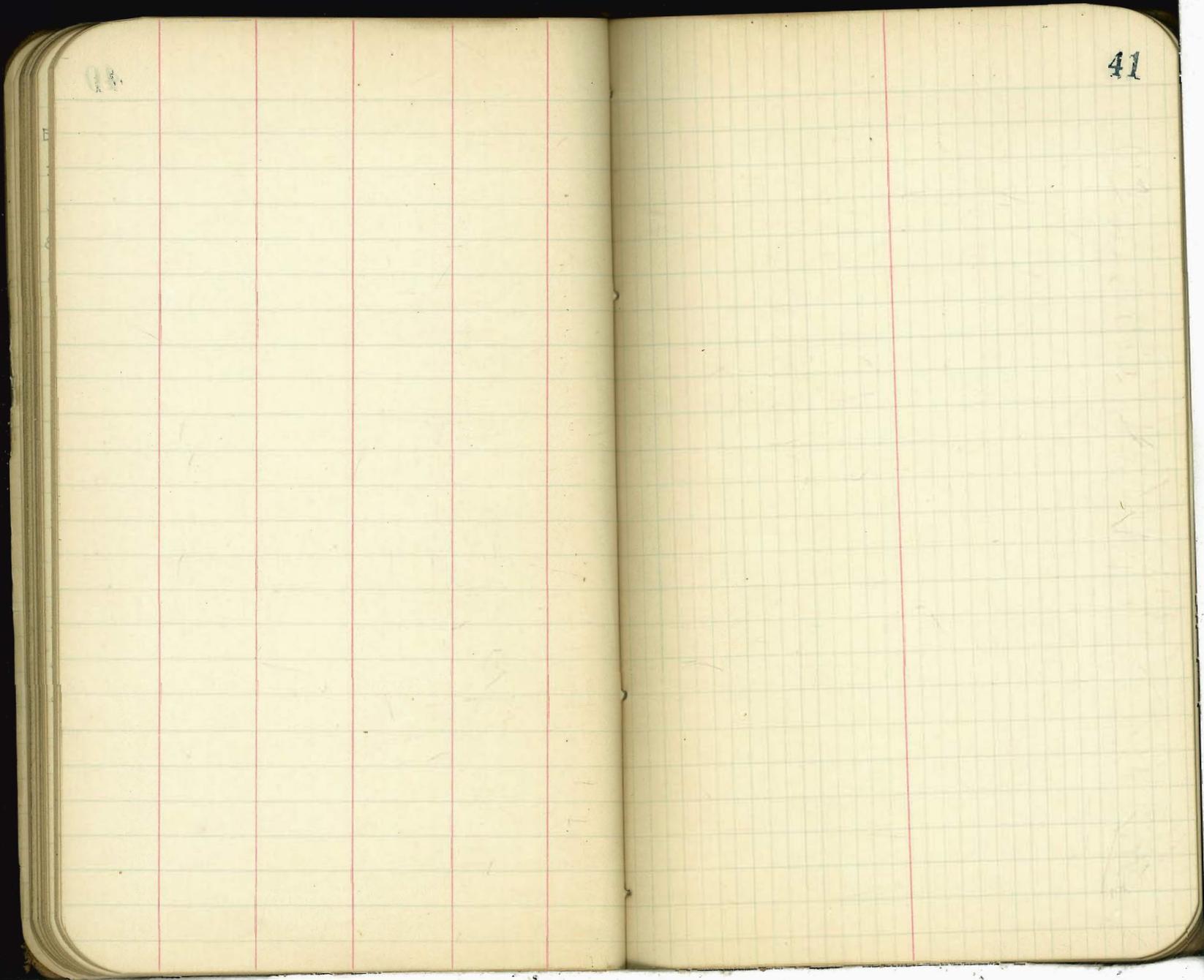
	S	CURB	1/4	1/2	3/4	CURB	N.
SEC B.D				30.20	29.70	29.70	29.95
265' W				27.96	27.46	27.46	27.71
53.0 W				25.73	25.23	25.23	25.48
795' W		24.00		23.50	23.00	23.00	23.25
95' W		23.39	23.04	23.20	22.84	23.00	23.25
106' W	23.25	23.60	22.75	23.00	22.75	23.00	23.25
118.5' W		22.60	21.93	22.43	22.38	22.86	23.11



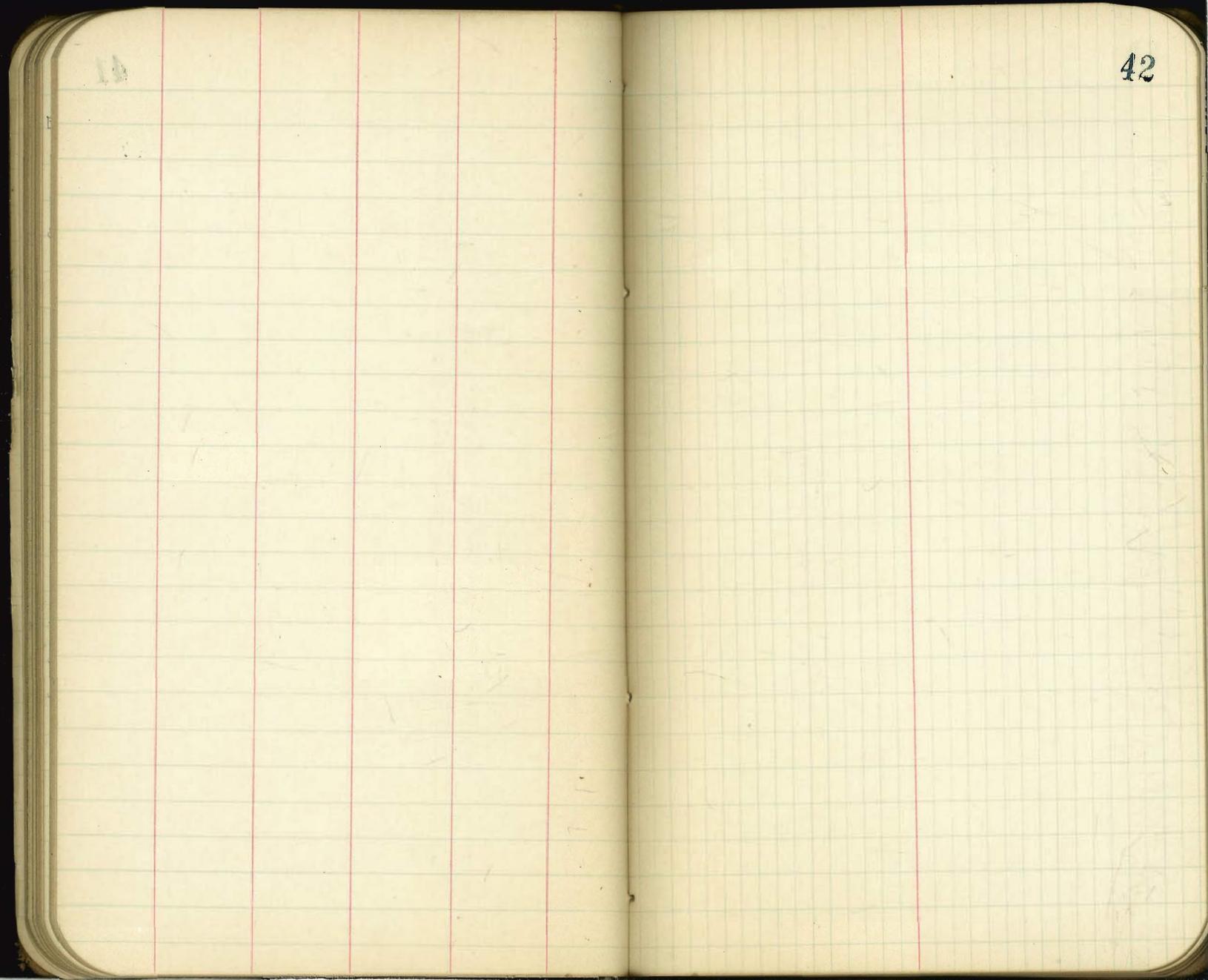
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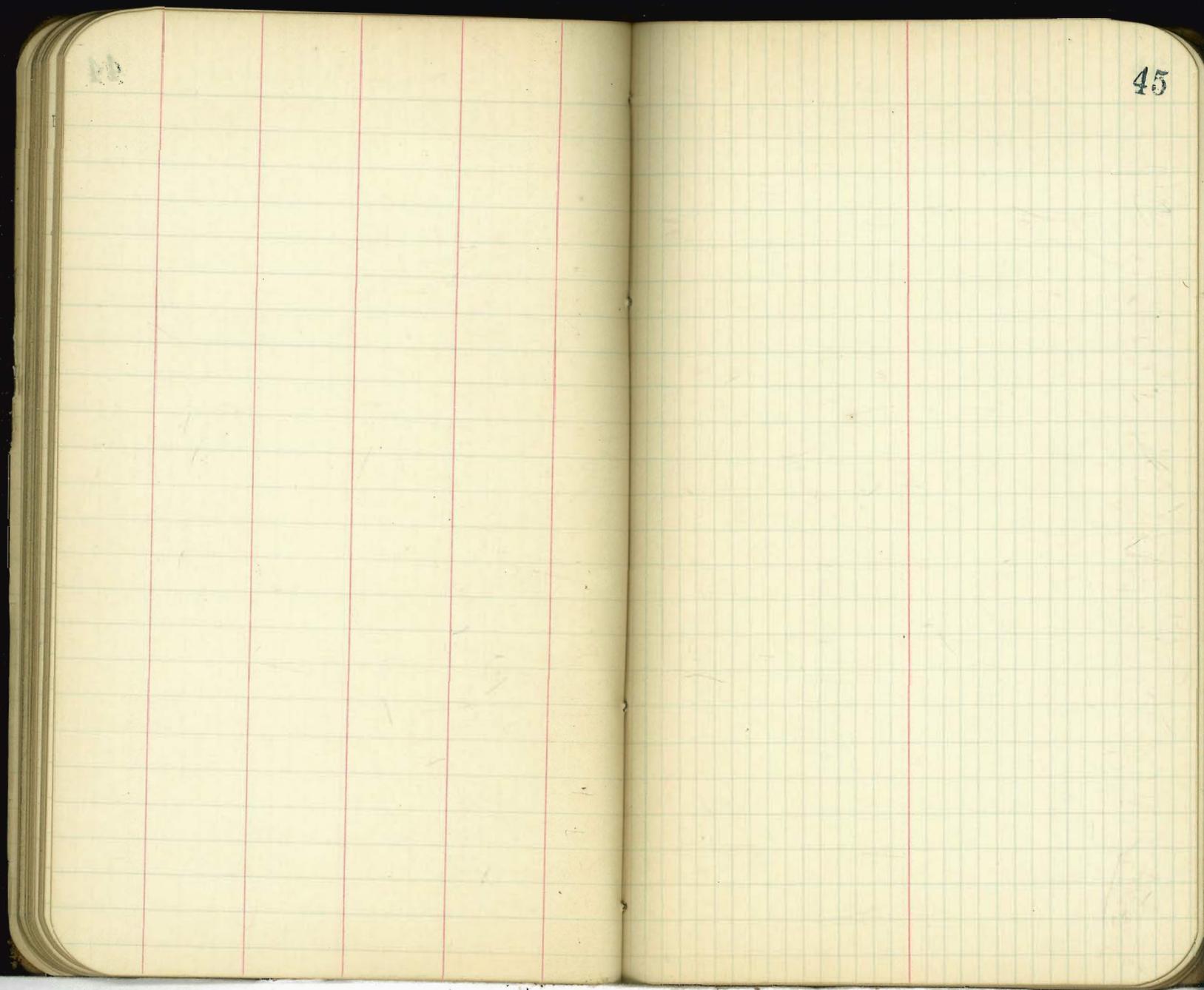
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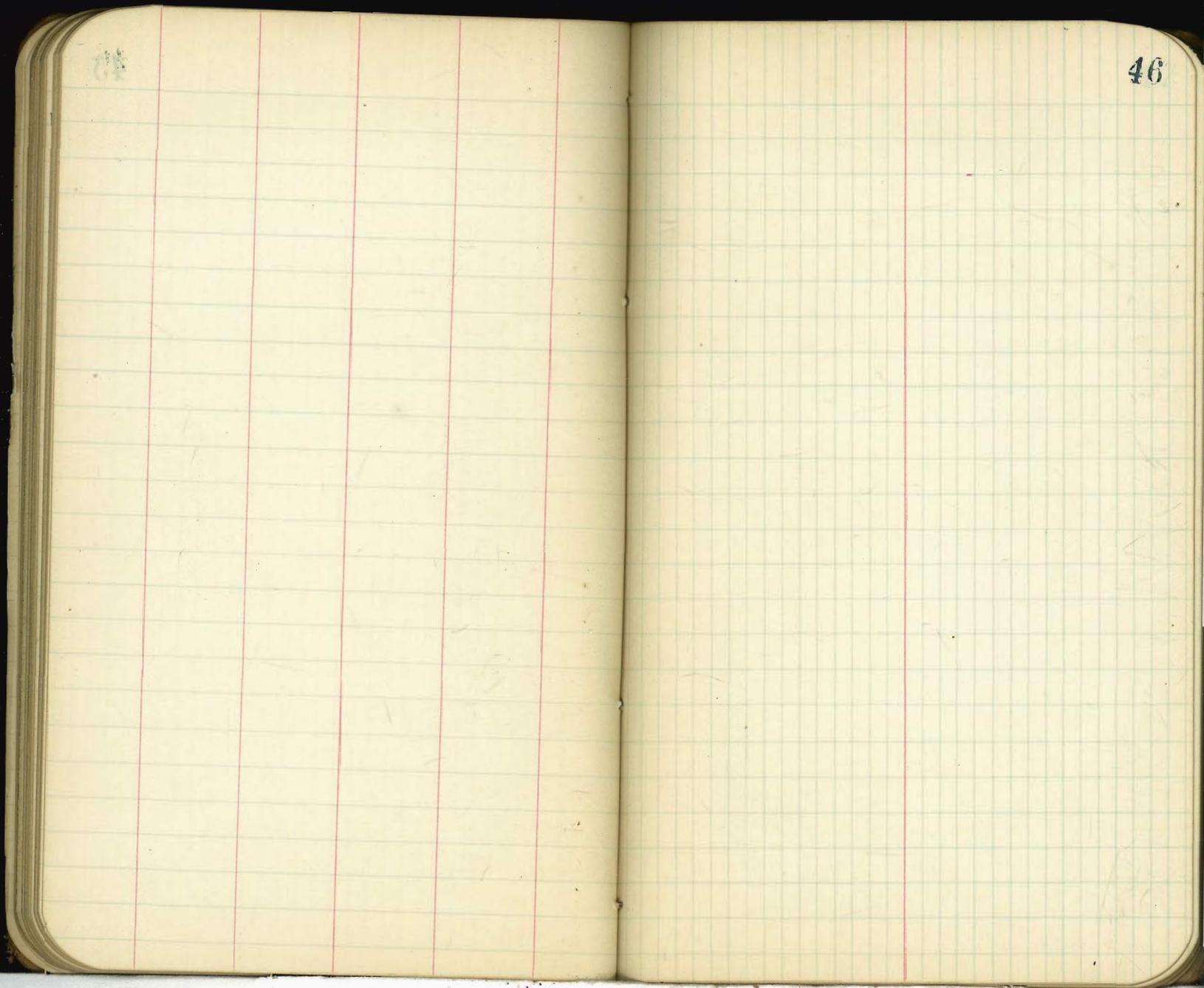
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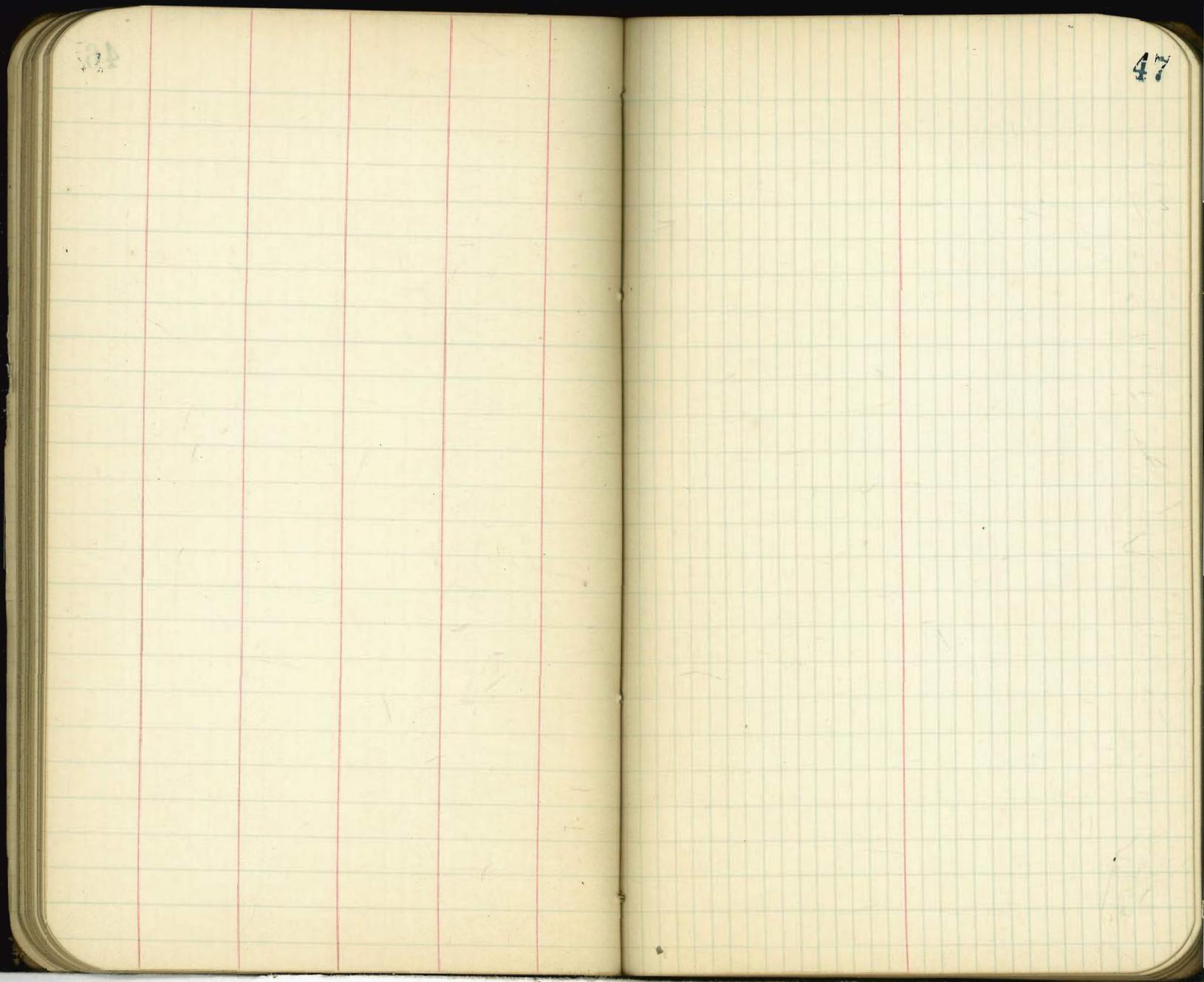


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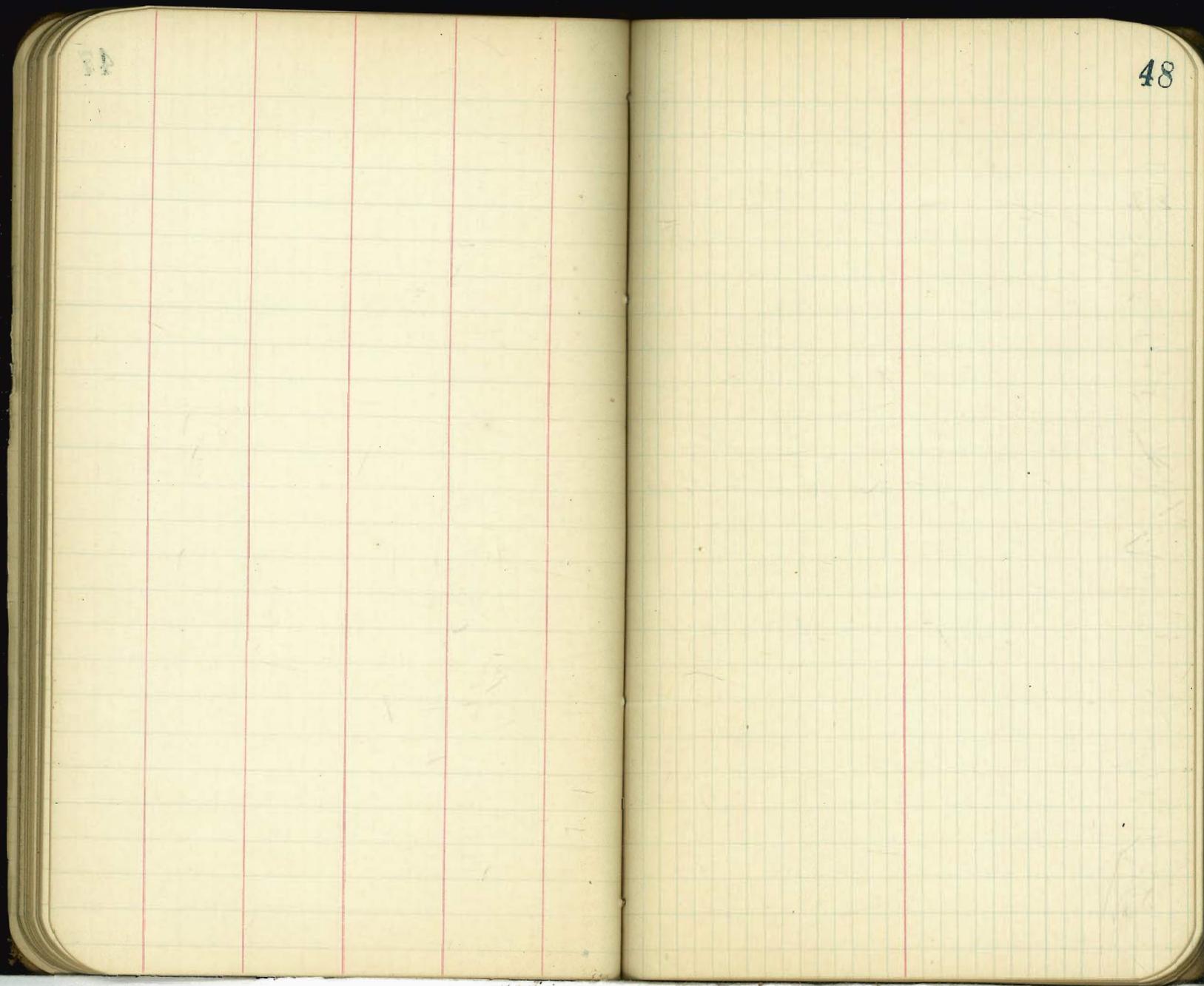


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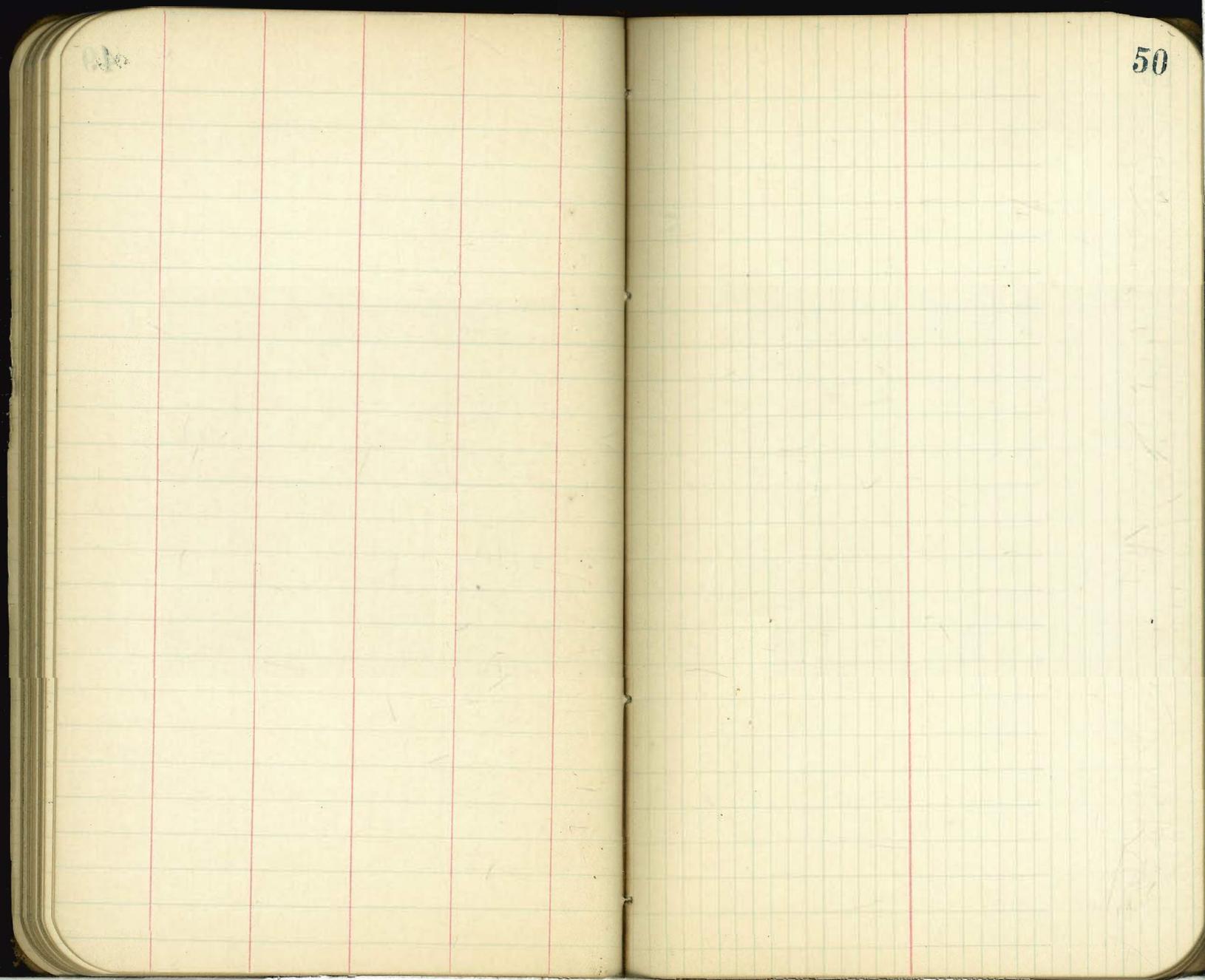


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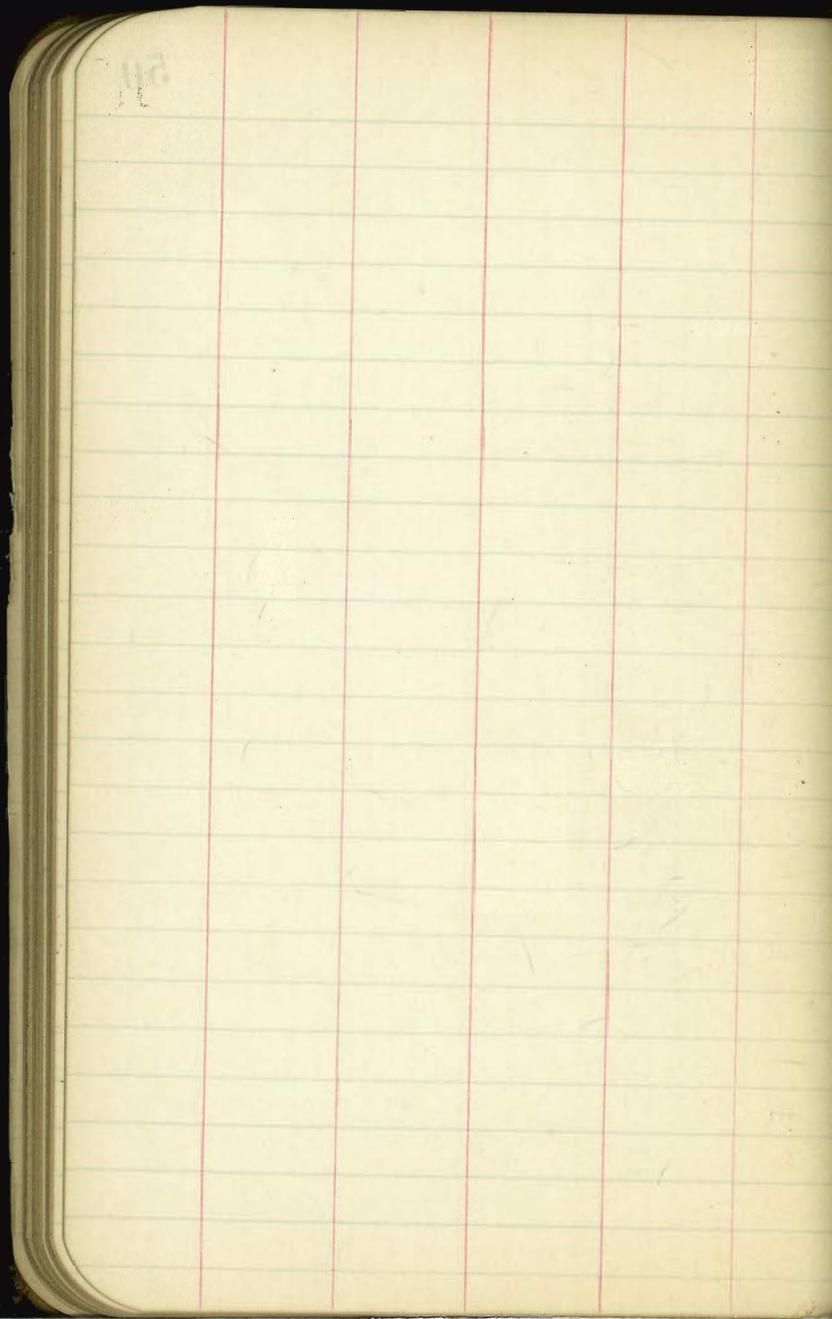
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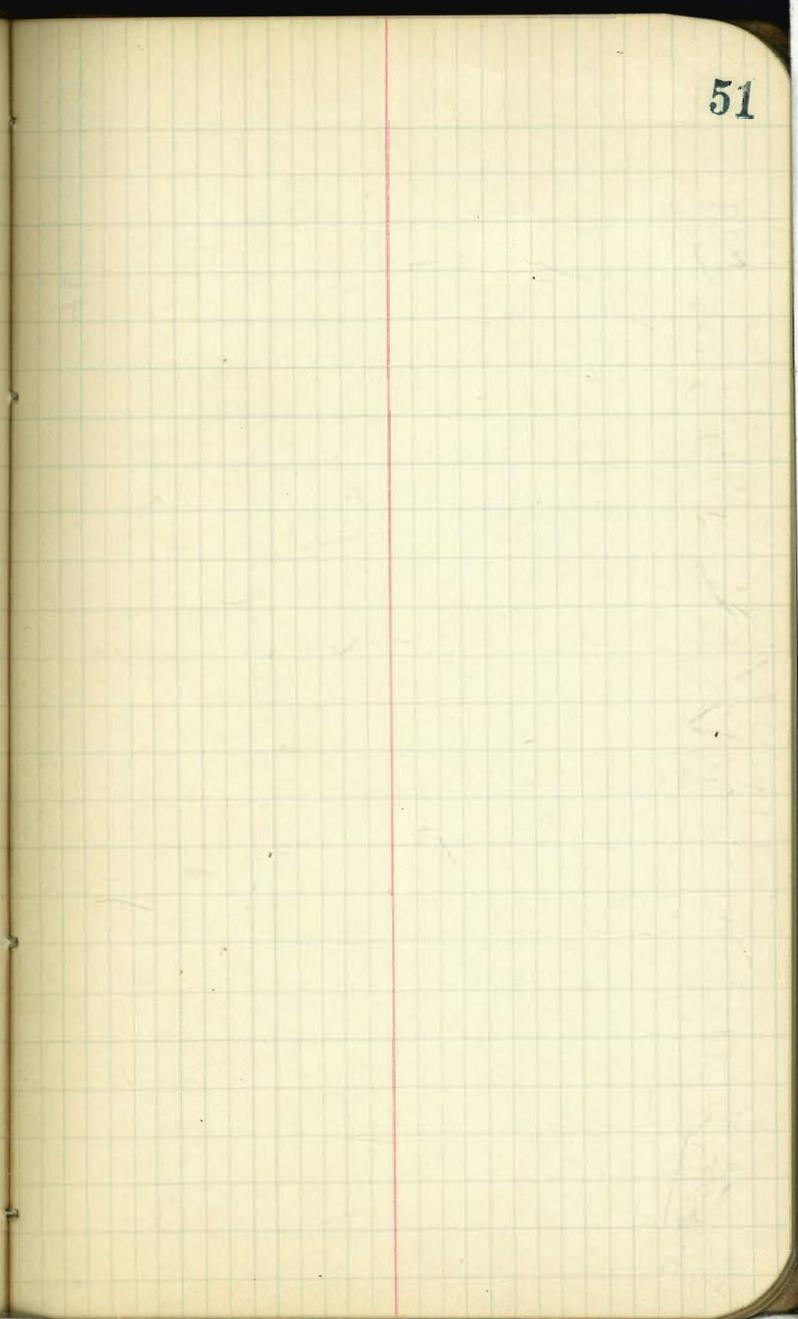
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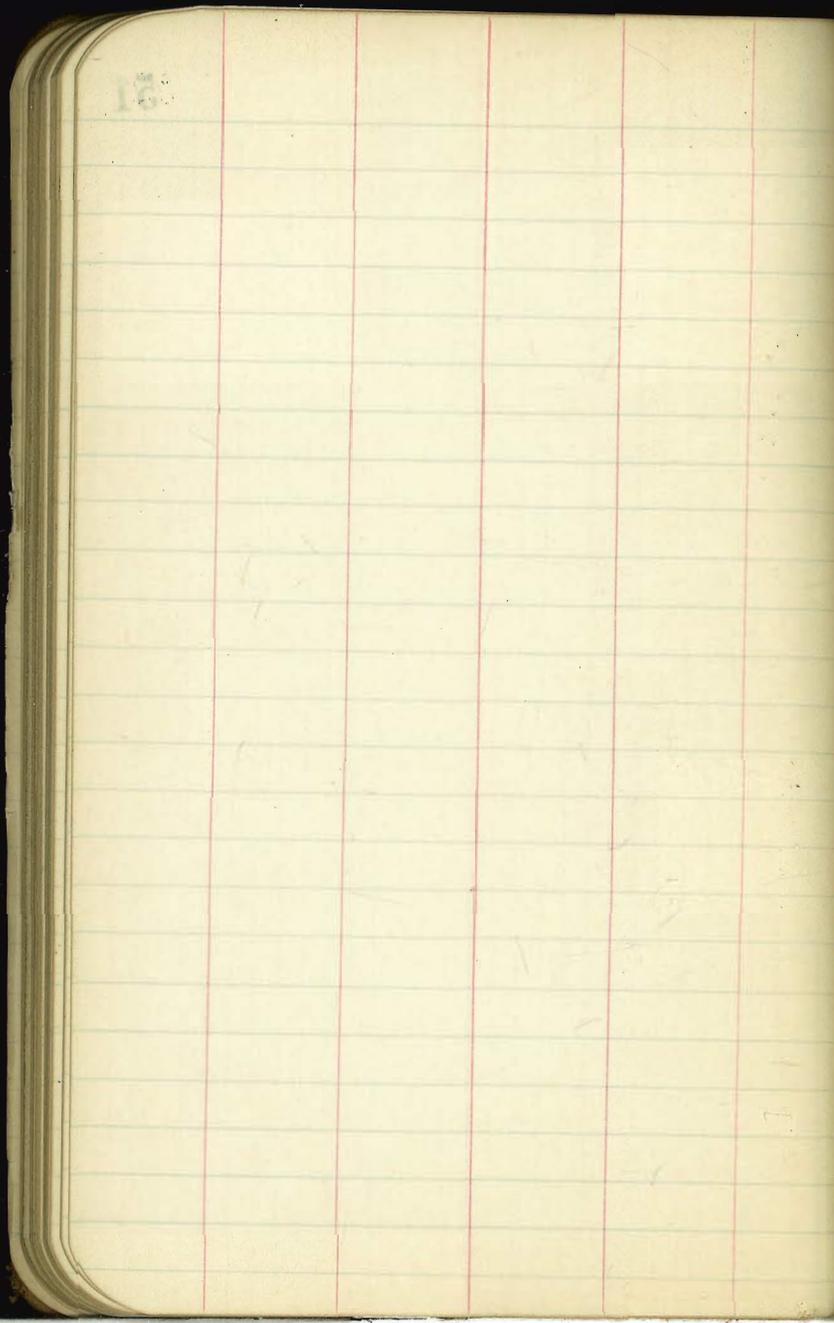
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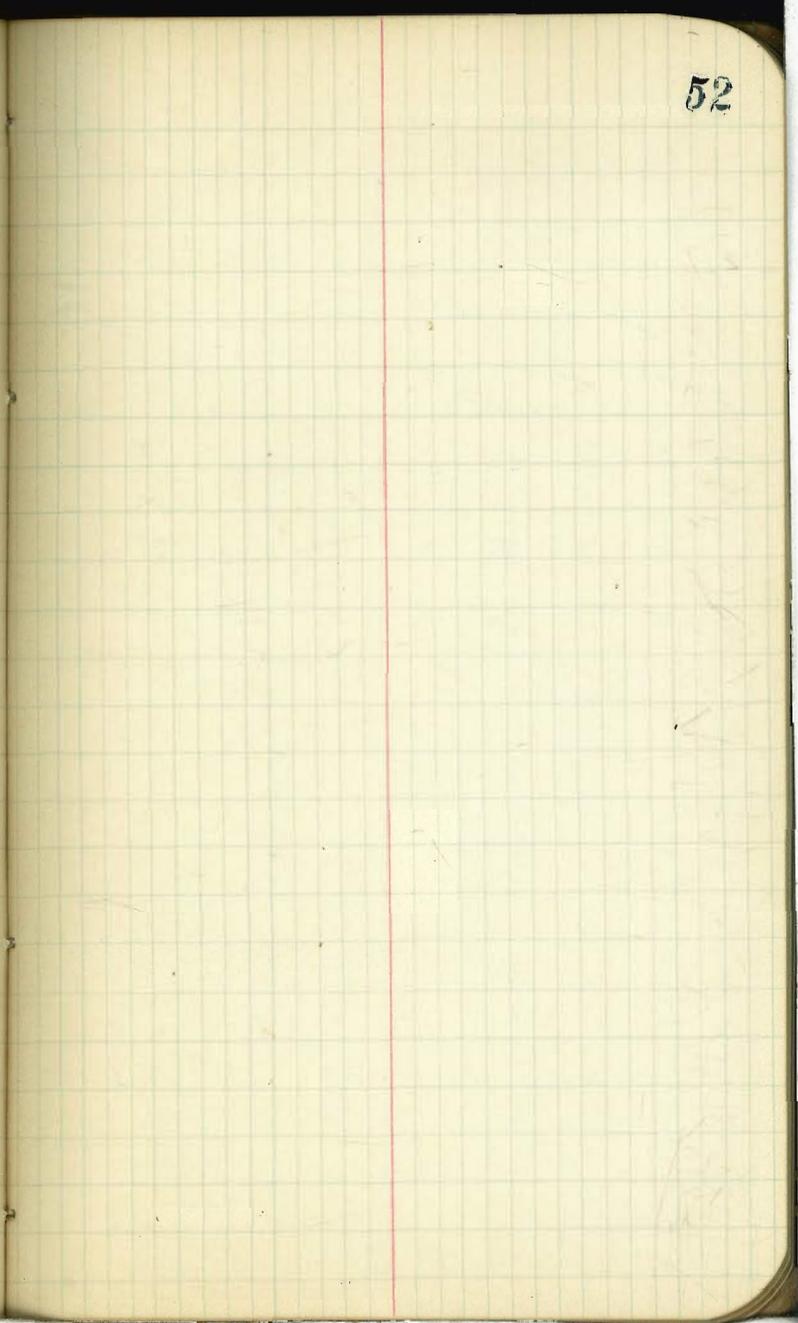
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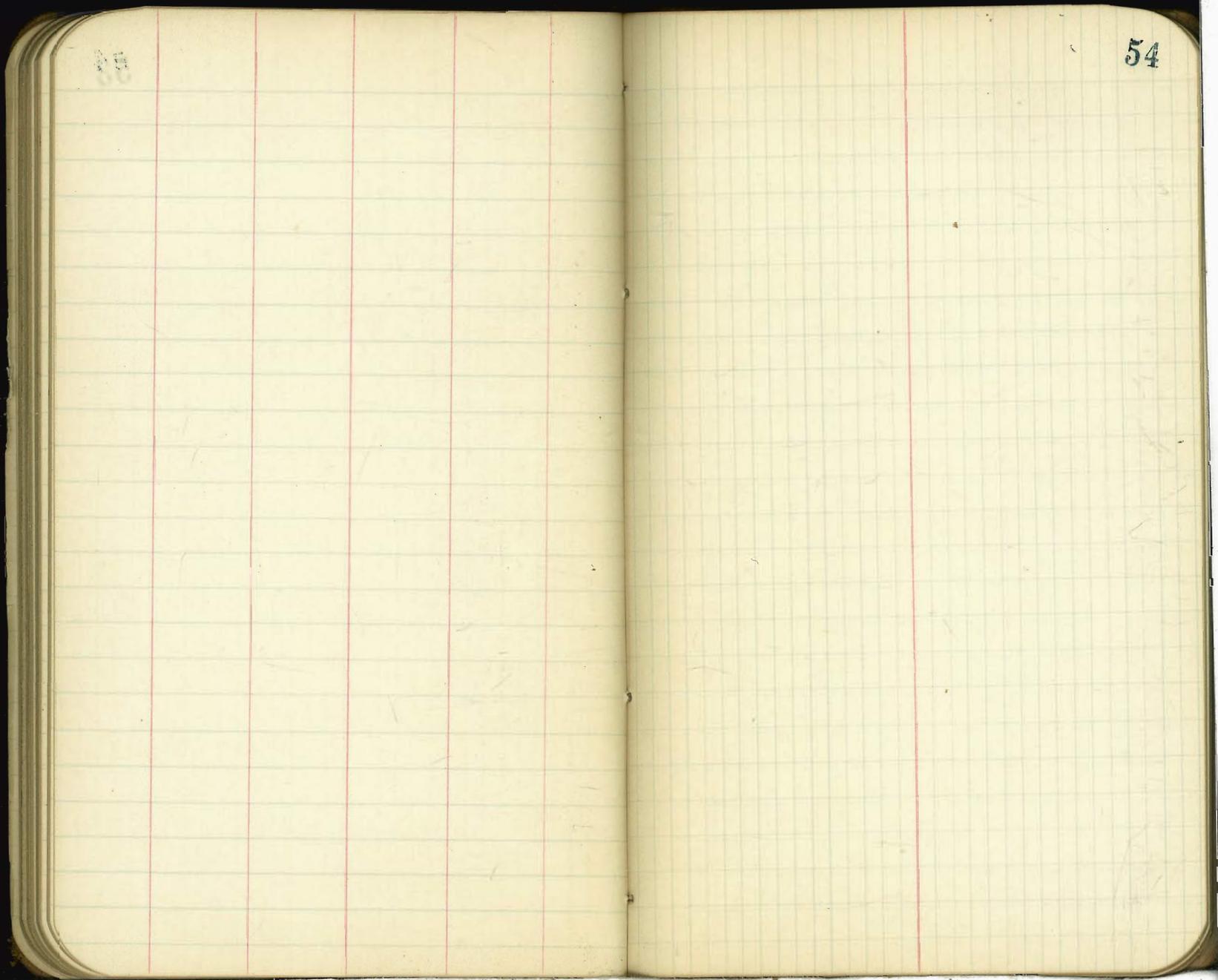
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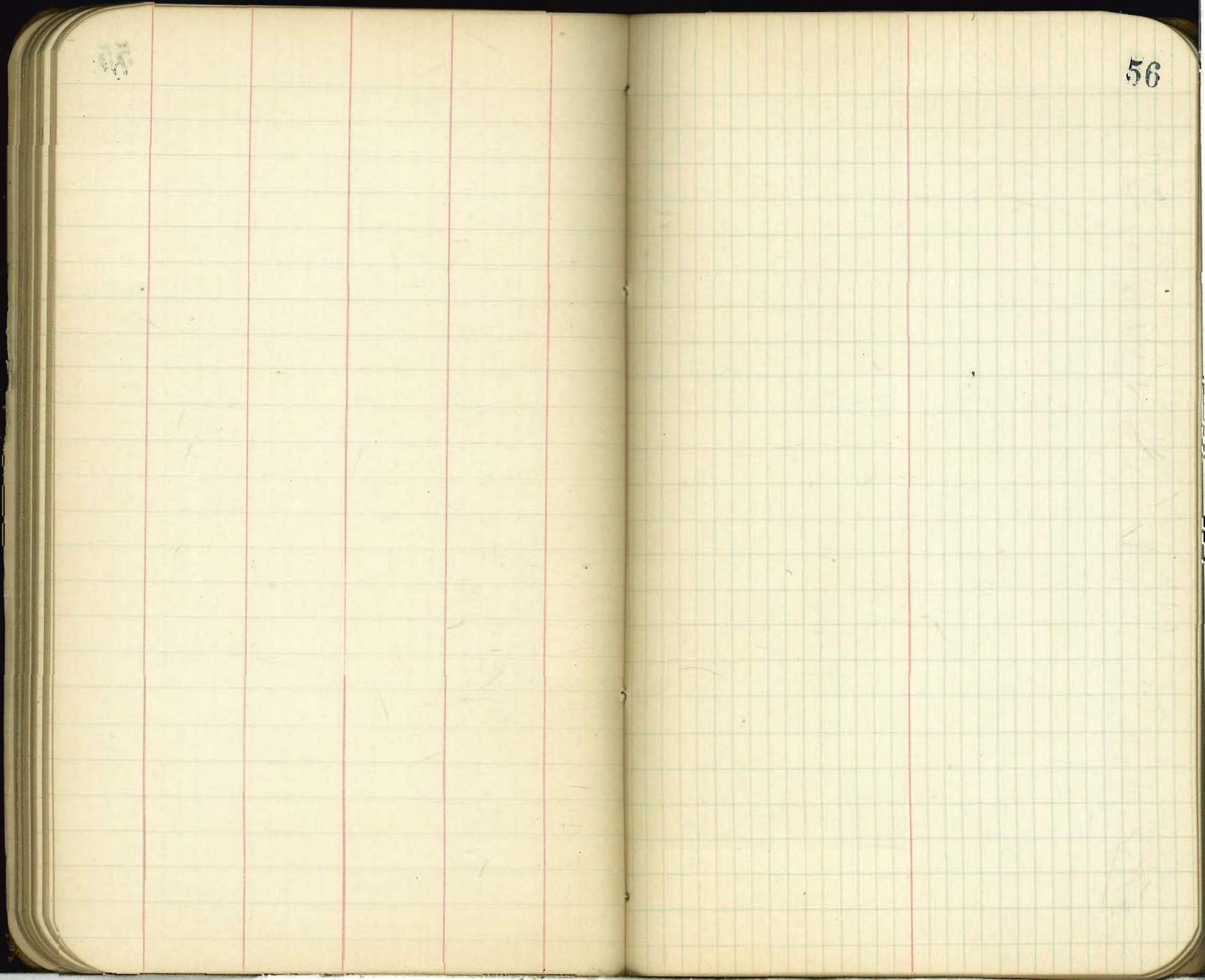


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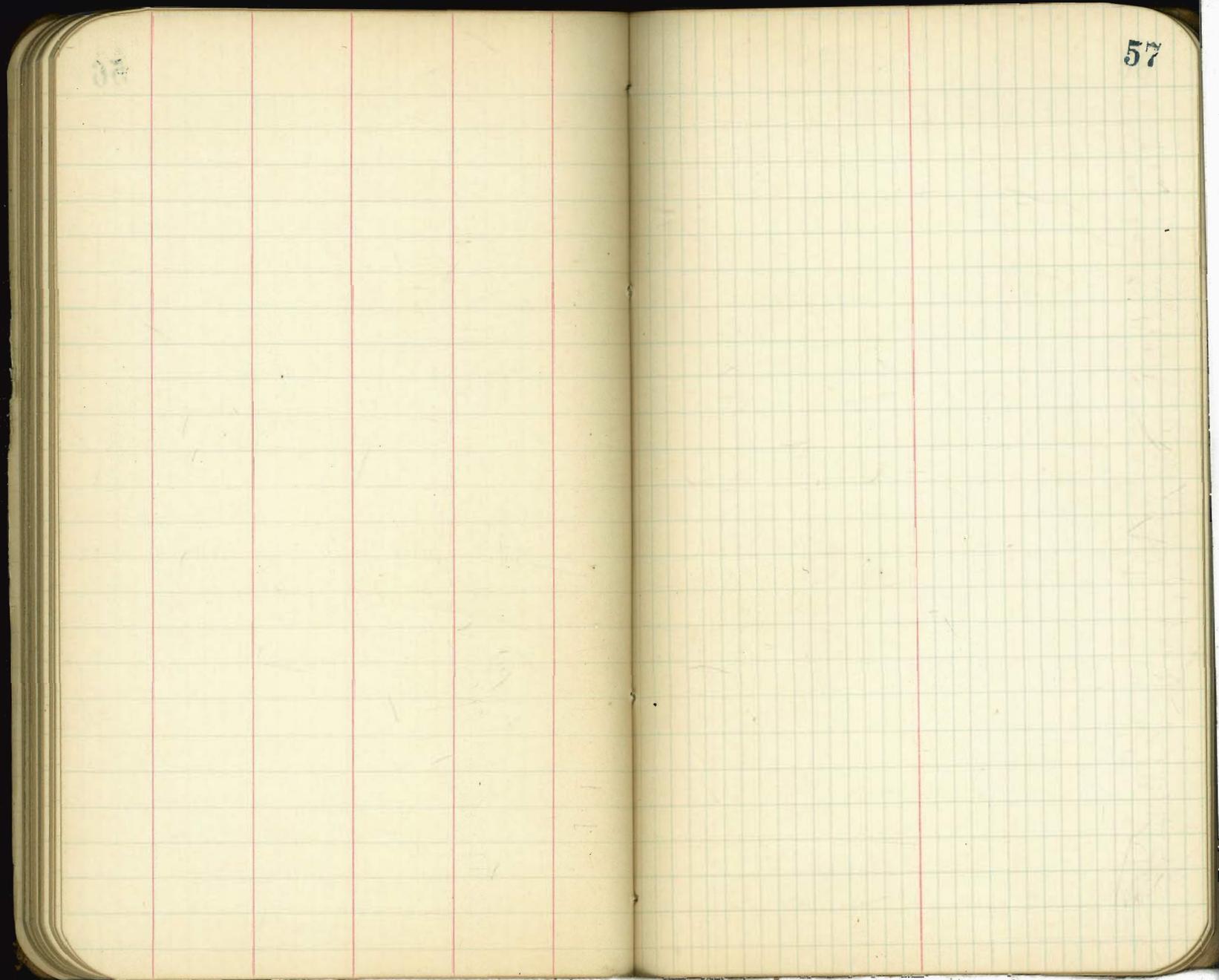
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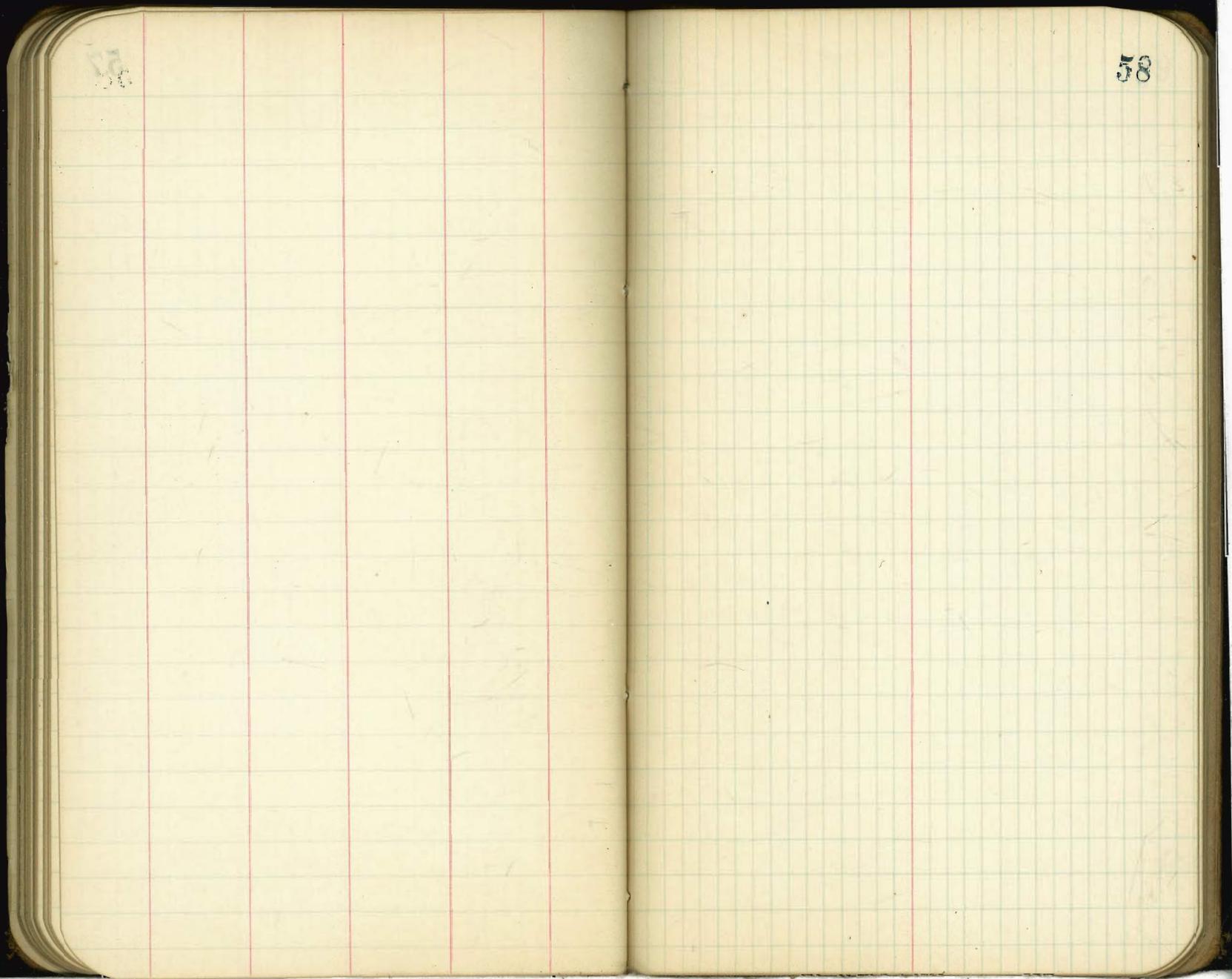


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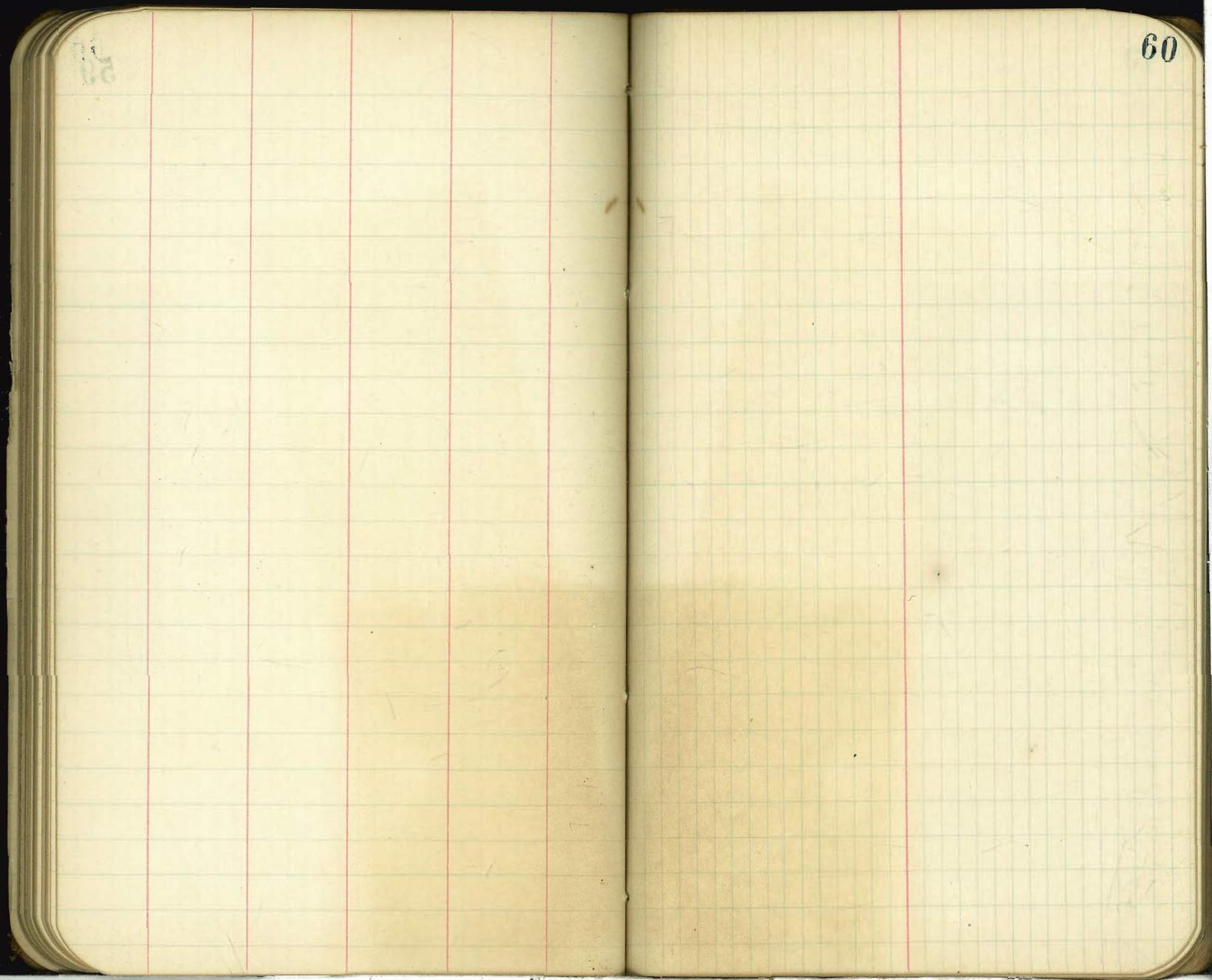


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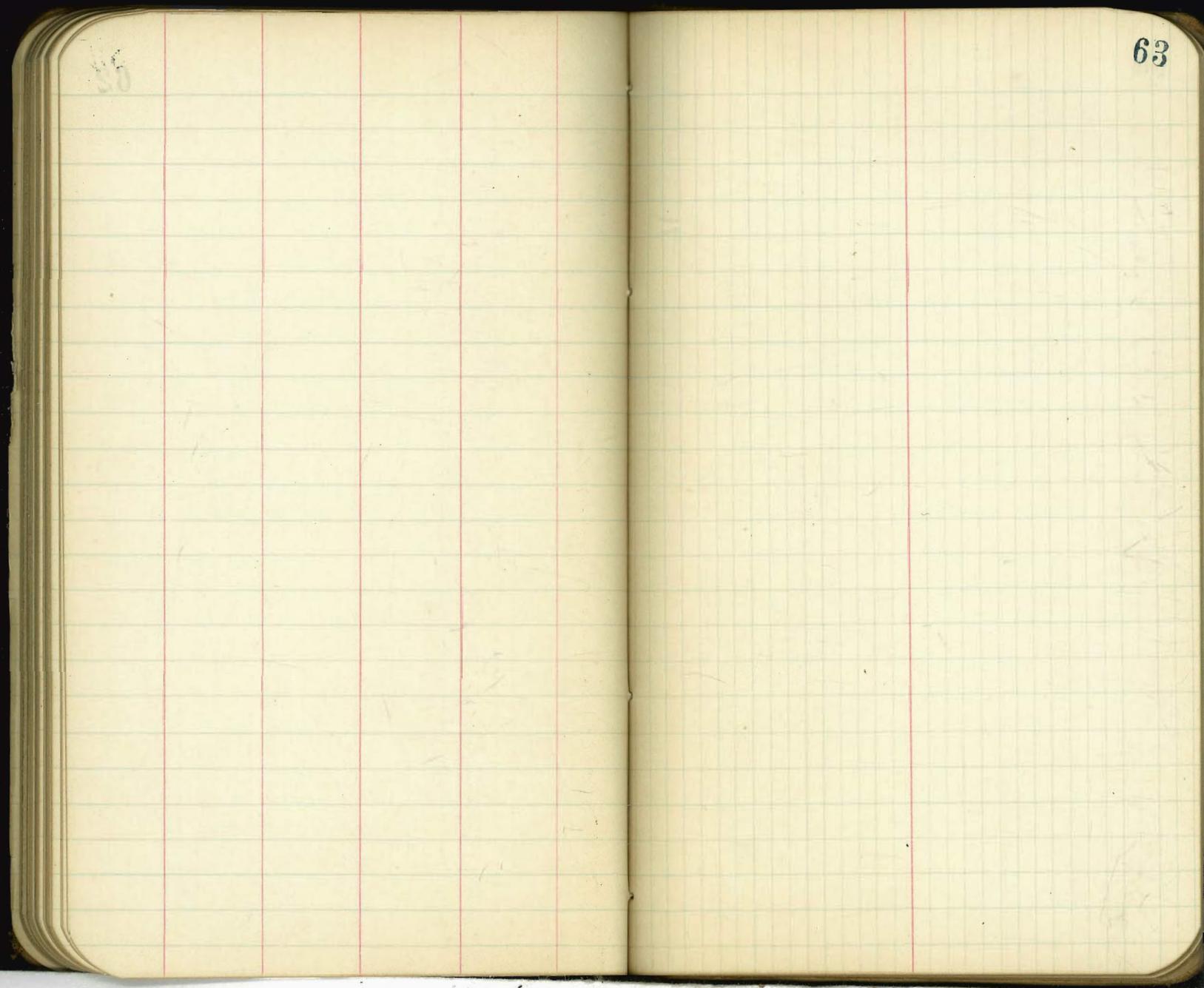
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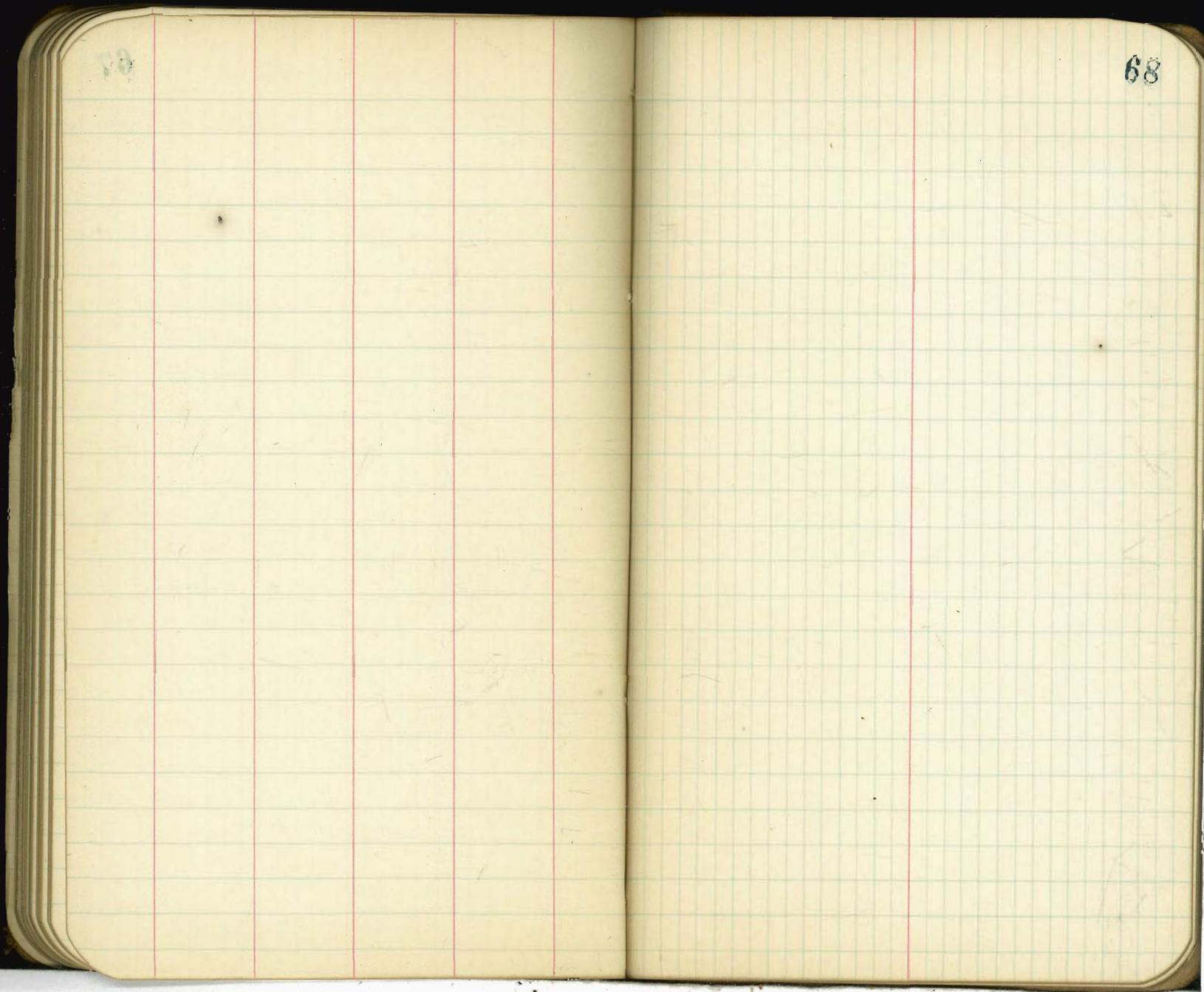
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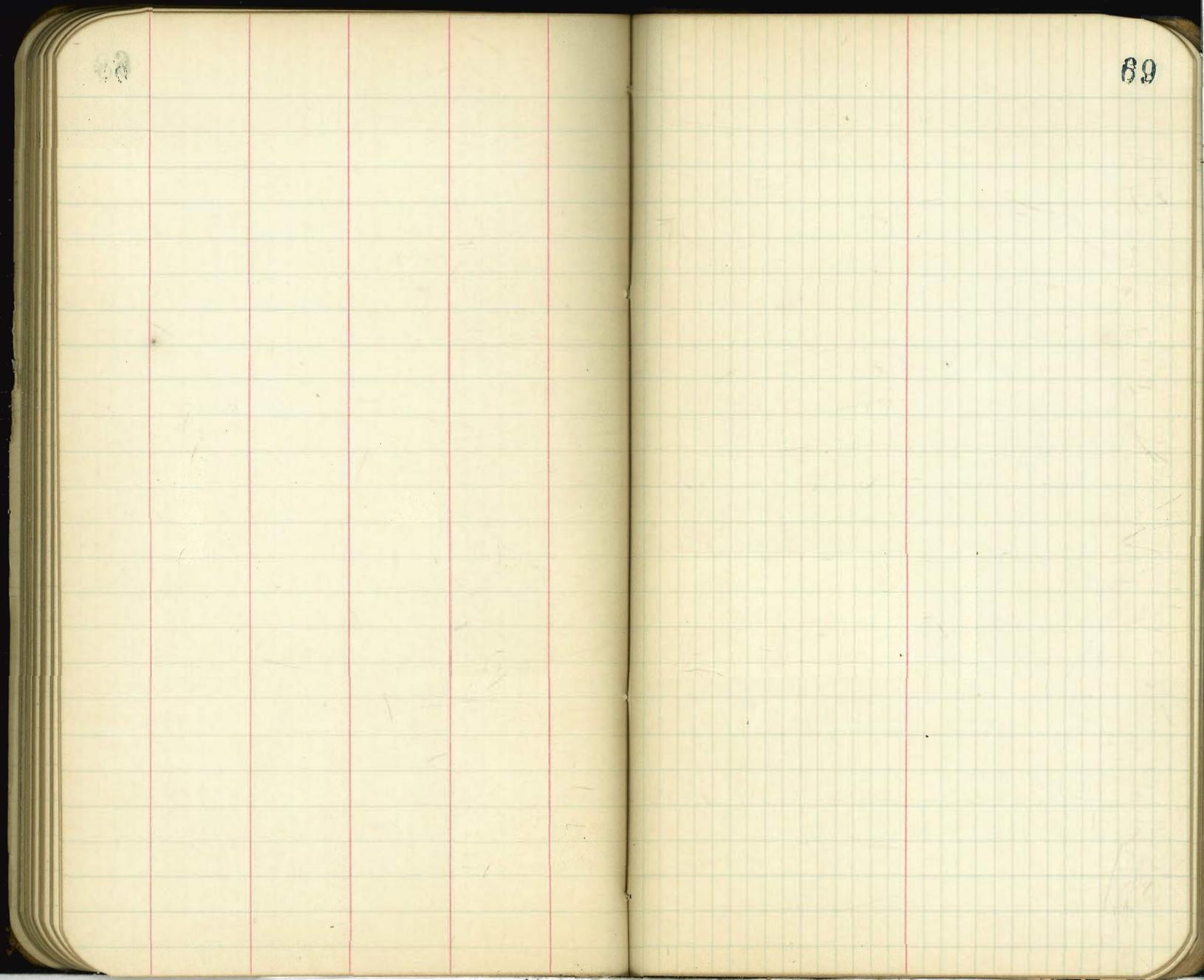
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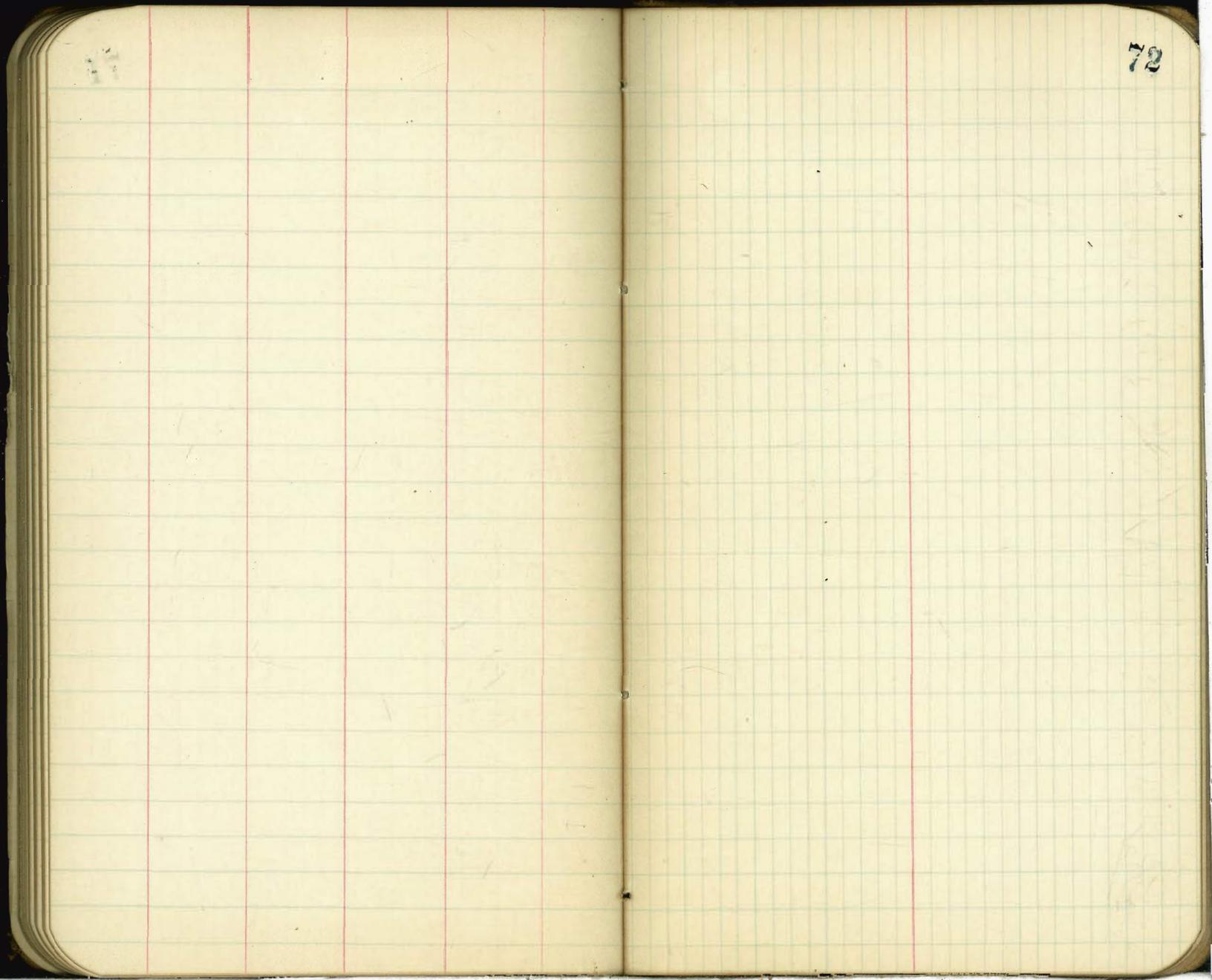
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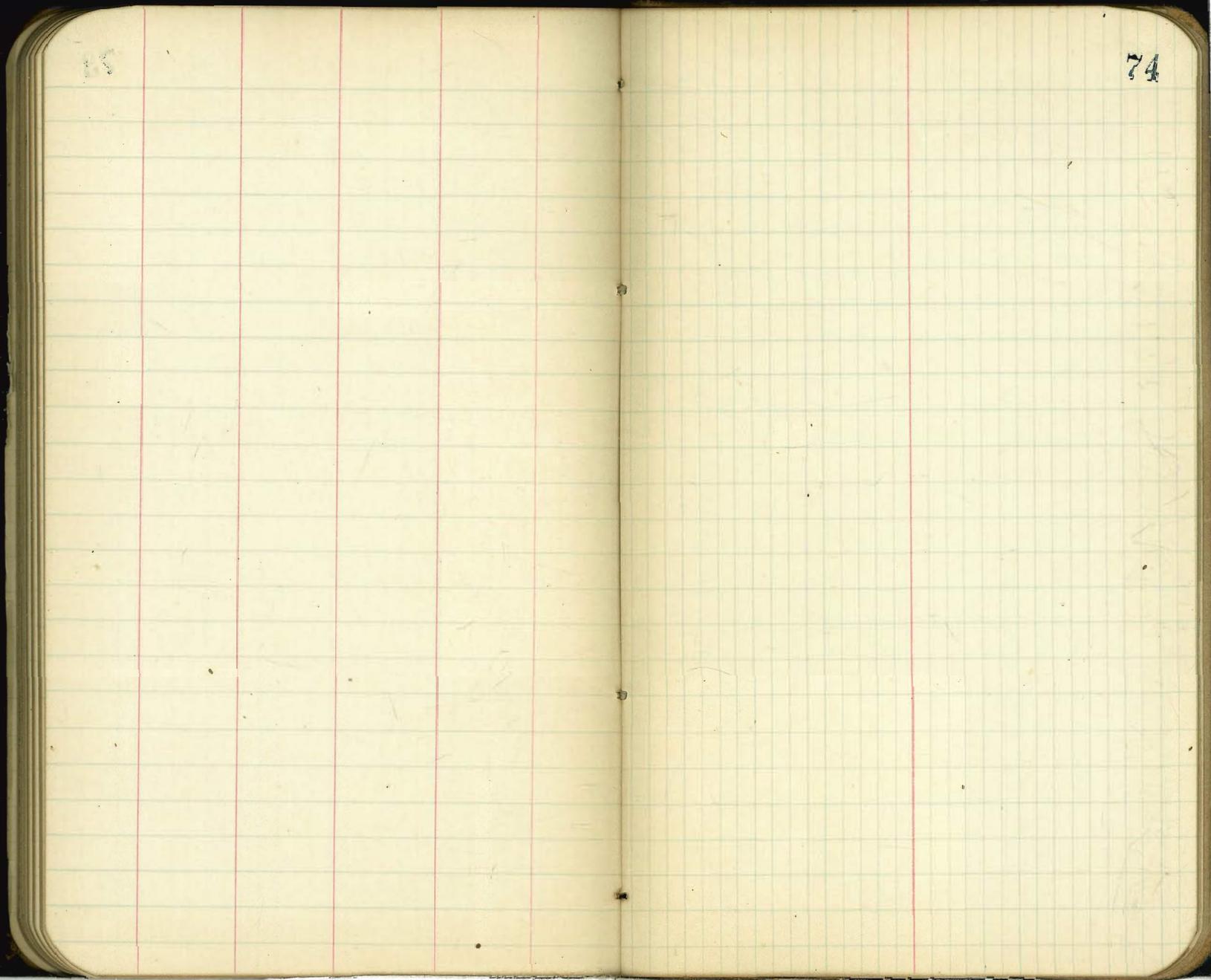
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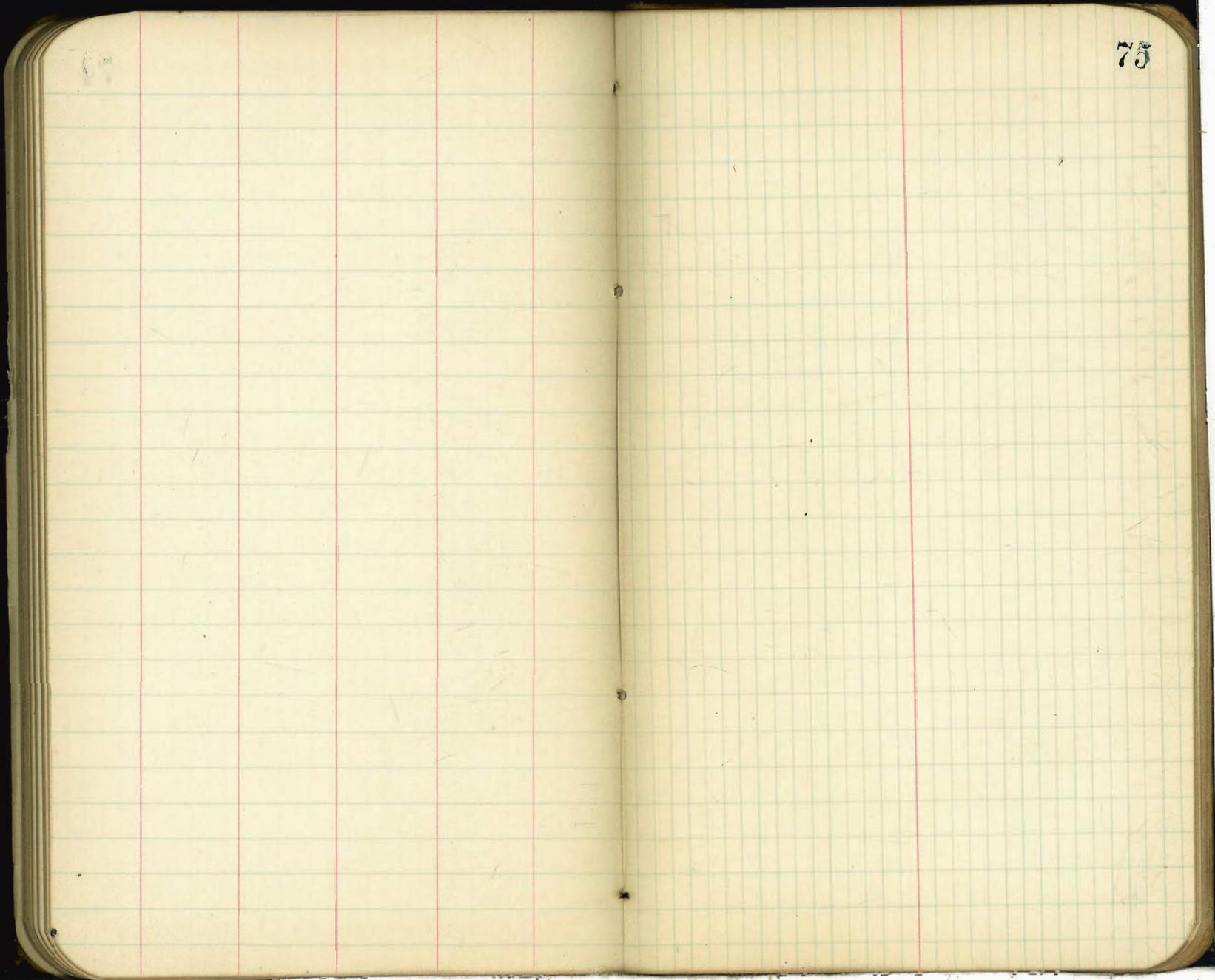
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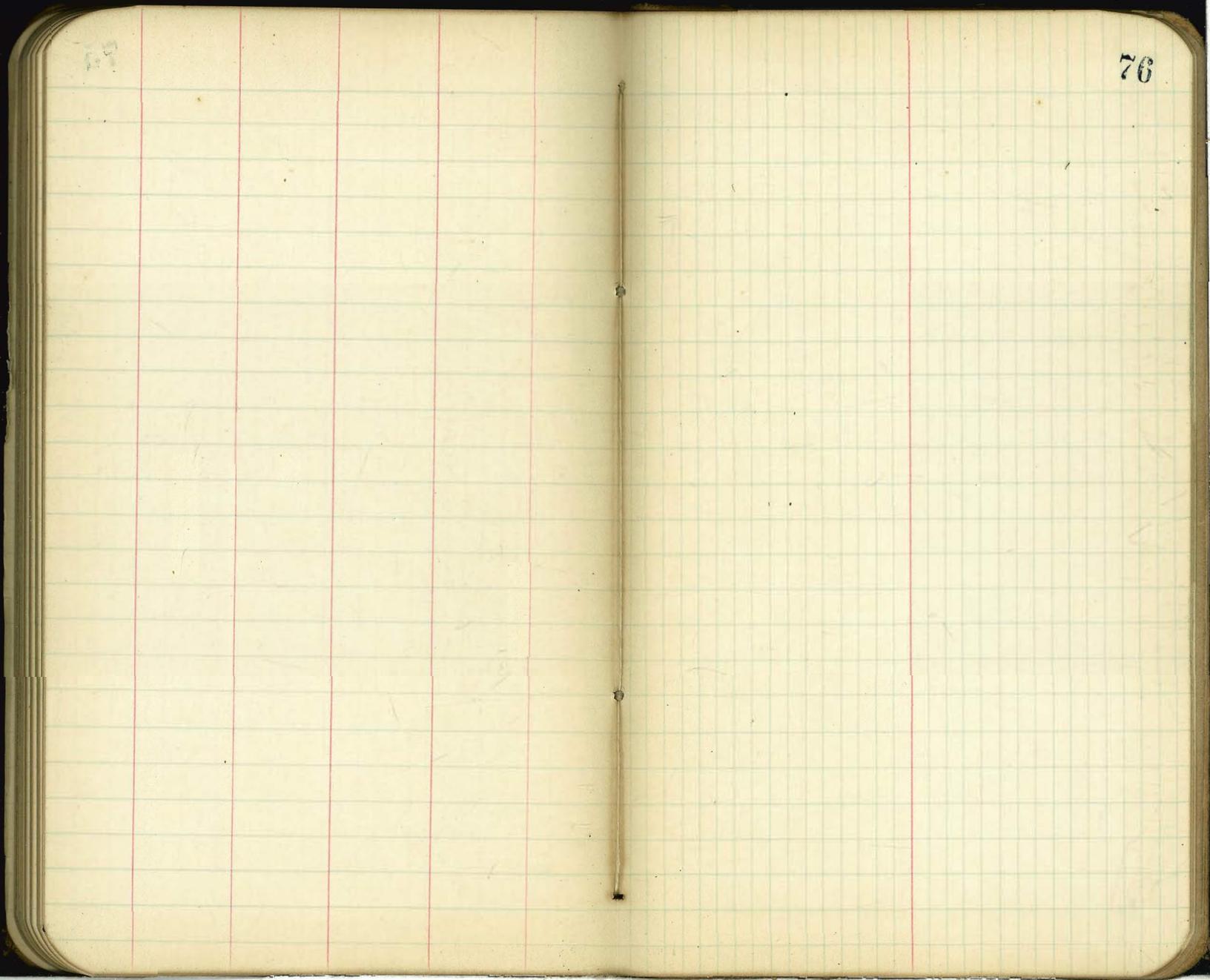
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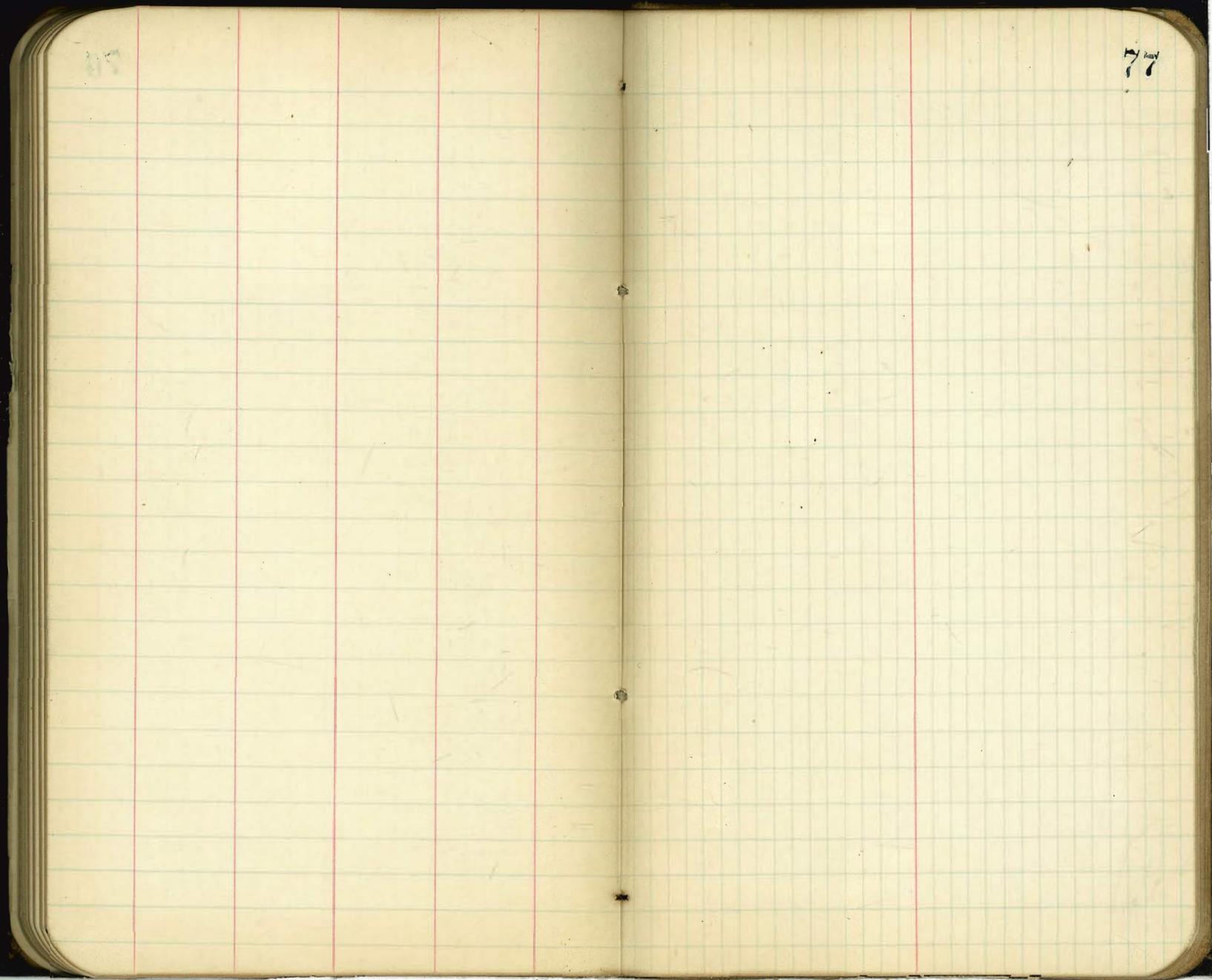
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TRAVERSE TABLE FOR TRANSIT BOOK.  
From 1° to 90° for a distance of 100.

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	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	86.16	50.75	85.94	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.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.