

Preliminary Sewers
Pacific Beach.

400
LEVEL
F.B. 514

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



LEVEL BOOK

No. 400

RETURN TO CITY ENGINEER'S OFFICE
CITY HALL, SAN DIEGO, CAL.



MANUFACTURED BY

A.S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

106.69

LEVEL BOOK

No. 400

10
11
12
13
14
15
16
17
18
19
20

In the j
n
ch

ANGLE

°
4
5
6
7
8
9
10

380

Thomas,

a
4.716
4.575
9.291

b
4.548
4744
9292

16.27 B.M.

46.21
47.46

460 B.M.
125

47.25 H.F.

12.90

* 34.38 J.P.

12.72

47.07 H.F.

0.91

46.16 J.P.

12.33

58.49 H.F.

0.00

58.49 J.P.

12.97

71.46 H.F.

0.31

71.15 J.P.

18.03

84.18 H.F.

1.60

82.58 J.P.

7.59

90.17 H.F.

9.28

81

Pardleton Street line main
for East portion of Pacific Beach
to center alley bet Pacific and Oliver

Sta.	H.I.	Rod	Elev.
0+00	about 1' deep center M.H. alley bet NO damaged + low	90.39	4.30 86.1
+50			6.1 84.3
1+00			6.2 84.2
+50			5.8 84.6
J.P.	1.60	84.39	7.59 82.79
2+00			2.4 82.0
+50			4.8 79.6
3+00			7.0 77.4
+50	center alley		8.9 75.5
4+00			11.1 73.3
J.P.	0.31	71.67	13.03 71.36
+50			0.6 71.1
5+00			2.3 69.4
+50			3.2 68.5
6+00			4.4 67.3
+50			5.2 66.5
+97.4	center alley		6.1 65.6
7+00	not less than 14' deep		8.2 63.5
+50			

Proper placed

sewer line
from center alley bet. damaged + Missami

Sta.	H.I.	Rod	Elev.
8+00	71.67	11.4	61.3
J.P.	0.00	58.70	12.97 58.70
+50			2.3 56.4
9+00			6.3 52.4
+50			9.5 49.2
10+00	about 6' deep center alley	12.2	46.5
J.P. + 116.5	10.91	47.28	12.33 46.37
+50			3.9 43.4
11+00			6.6 40.7
+50			9.1 38.2
12+00			11.0 36.3
+50			12.2 35.1
+55			14.6 32.7
J.P.	1.43	35.99	12.72 34.56
13+00			5.0 31.0
+50			6.3 29.7
+96.8	center alley		7.6 28.4
14+00	about 5' deep		8.8 26.2
+50			11.6 24.4
15+00			

may 31/10
Lalida Barber Taylor

Cut. from page 1

Sta.	H.I.	Rod	Elev.
15+50	35.99	12.0	24.0
16+00		12.6	23.4
+50		12.7	23.3
J.P.	-0.01	22.98	13.00
17+00		0.8	22.2
+50		2.1	20.9
+52.5		3.2	19.8
18+00		4.5	18.5
+50		5.4	17.6
19+00		6.4	16.6
+50		7.6	15.4
20+00		8.2	14.8
+50		9.2	13.8
21+00		10.6	12.4
+47.7		12.1	10.9
+50	0.02	10.53	12.47
22+00		1.4	9.1
J.P.		3.2	7.3
+50			
23+00			

June 1/10
 Blidell
 Barber
 Taylor?

Sta.	H.I.	Rod	Elev.
23+50	10.53	4.5	6.0
24+00		7.3	3.2
+50		8.5	2.0
+97.2		9.7	+0.8
25+00		10.4	0.1
+50		10.6	-0.1
26+00		10.8	-0.3
+50		10.7	-0.5
27+00		10.7	-0.2
+50		10.50	0.03
J.P.	3.94	3.97	4.3
28+00		4.3	-0.3
+47.2		4.7	-0.7
+50		4.5	-0.5
29+00		4.6	-0.6
+50		4.8	-0.8
30+00		4.8	-0.8
+50		4.6	-0.6
31+00			

center alley about 3' deep. (grade - 2.2)

0.2% grade from alley near 25+00 station to outfall

center alley

cont. from page 2.

June 1/10

Calhoun
Barber
Taylor 3

Sta.	H.I.	Rod Elev.	Elev.
31450	3.97	4.7	-0.7
314872		4.68	-0.71

m.H. center alley
bet. Pacific ave
& Oliver

Alley line bet. Oliver & Pacific
pendleton to center of noyes,

Sta.	H.I.	Rod	Elev.
0+00	m.H. Sta. 31+97.2 on pendleton	6.68	7.39 -0.71
+50		7.5	-0.8
1+00		7.6	-0.9
+50		7.8	-1.1
2+00		7.5	-0.8
+50		7.7	-1.0
3+00		8.1	-1.4
+50		7.8	-1.1
4+00		8.1	-1.4
+50		8.2	-1.5
5+00		8.3	-1.6
+30		9.6	-2.9
+32		11.7	-5.0
+43		11.6	-4.9
+47		9.9	-3.2
+50		9.8	-3.1

Spells placed

acc. from center of
June 3/10

Builds
Barber
Taylor 4

Sta.	H.I.	Rod	Elev.
5+55	6.68	8.1	-1.4
6+00		8.5	-1.8
+50		9.0	-2.3
7+00		9.1	-2.4
+50		9.5	-2.8
8+00		10.3	-3.6
+10		10.1	-3.4
+15		12.0	-5.3
+39		12.0	-5.3
+42		8.8	-2.1
+50		8.8	-2.1
9+00		9.2	-2.5
+50		9.5	-2.8
10+00		9.7	-3.0
+50		9.9	-3.2
11+00		10.0	-3.3

June 3/10
Hobilds
Barber
Taylor

Cont. from page 4

Sta.	H.I.	Rod	Elev
11750	6.7	9.8	-3.1
159.1	Mt. center Noyes Valley bet Pacific and Eliver	9.46	-2.78

Noyes Street from alley bet
North to sta 8782.5 + S.E. to Mission

Sta.	M.H. Sta 11459.1 on alley line 8720 center of grades	H.I. 3.27	Rod. Elev.	Elev.
0+00			5.05	-2.78
+50			5.6	-3.3
1+00			5.6	-3.3
+150			5.8	-3.3
2+00			5.8	-3.5
+50			5.6	-3.3
3+00			6.3	-4.0
+50			6.0	-3.7
91			6.3	-4.0
+94			7.8	-5.5
+100				
4+00			6.4	-4.1
+49			6.7	-4.4
+50			7.7	-5.4
+53			6.8	-4.5
+68			7.6	-5.3

Profile plotted
@-2

Oliver Pacific ave. Lillets Barber Taylor 6
Bay. June 7/10

Sta.	H.I. 2.27	Rod. Elev.	Elev.
4+74		5.6	-3.3
5+00		5.7	-3.4
+13		5.6	-3.3
+16		8.4	-6.1
+32		8.2	-5.9
+35		5.7	-3.4
+50		5.6	-3.3
6+00		6.2	-3.9
+50 m.H.		6.40	-4.13
+85		6.5	-4.2
+97		7.5	-5.2
7+00		9.1	-6.8
+22		9.0	-6.7
+29		6.3	-4.0
+50		6.0	-3.7
8+00		5.6	-3.3

cont. from page 6

June 7/10
Childs
Barber
Taylor

Sta.		H.I.	Rod	Elev.
8+42.5	no. line	<u>2.27</u>		
+50			5.9	-3.6
	39° 03' L			
+82.5	71.14 center		5.79	-3.5
9+00			5.9	-3.6
+50			5.8	-3.5
10+00			5.9	-3.6
+50			6.5	-4.2
11+00			6.0	-3.7
+50			6.2	-3.9
12+00			7.2	-4.9
+50			7.5	-5.2
+75			7.6	-5.3

→ outfall

Noyes street north of main from
to alley bet. Oliver & Reed

alley bet. Pacific & Oliver

June 5/10

Childs
Barber
Taylor

Sta		H.L.	Rod	Elevs
T.P.				
0+00	M.H. Center alley bet. Pacific & Oliver	9.61	12.39	-2.78
+50			11.2	-1.6
1+00			10.0	+0.4
+50			8.9	0.7
2+00			8.1	1.5
+50			8.0	1.6
3+00			7.2	2.4
+39.6	M.H. Center ^{alley} bet. Oliver & Reed		6.11	3.50

This line not necessary
at this time

Profile plotted
6-2

alley line bet. Pacific ave. &
to Sta 3+80 west of center of
Sta

Sta		H.I.	Red	Elev
0+00	M.H. center of noyes.	9.61	12.39	-2.78
+50			9.0	0.6
1+00			7.6	20
+50			6.2	3.4
2+00			4.1	5.5
+50			1.8	7.8
J.P.	8.01	<u>16.43</u>	1.19	8.42
3+00			8.2	8.2
+50			11.0	5.4
+80	M.H. bottom of camp 380 west of center of noyes		10.77	5.66

Oliver from center of noyes
noyes, June 8/10

Childs
Barber
Taylor

Profile plotted
0-2

alley line bet. Reed + Thomas
to Kendall.

Sta.		H.I.	Rod	Elev.
J.P.		3.91	39.98	36.07
0+00	at H. bottom of canyon 170' East of Summit:		10.91	29.07
+50			8.7	31.3
1+00			5.2	34.8
+50			2.3	37.7
+70	East line Summit		1.25	38.73
J.P.		12.89	51.62	
2+00			11.9	39.7
+50			10.1	41.5
3+00			8.2	43.4
+50			6.7	44.9
4+00			5.9	45.7
+50			5.5	46.1
5+00			4.9	46.7
+50			4.5	47.1
6+00			3.5	48.1
+50			2.4	49.2
7+00			0.4	51.2

Profile plotted
C-2

from 170' East of Summit
June 27/0

Childs
Barber
Taylor

Sta.		H.I.	Rod	Elev.
J.P.		2.51	53.95	51.44
7+25	F.S. about 25' from Kendall		2.08	51.87

Canyon line from Sta. 3+80 on
to Sta. 2+90 or alley bet. Thomas

Sta.	H.I.	Rod	Elev.
0+00	about 3' deep M.H. Sta. 3+80	16.43	10.77
+50	alley bet. Oliver & Pacific ave.		9.0
1+00		7.6	8.8
+50		6.5	9.9
2+00		3.3	13.1
+50		3.4	13.0
3+00		1.8	14.6
J.P.	12.33	27.81	0.95
+50		10.8	17.0
4+00		8.9	18.9
+50		8.3	19.5
+90.4	M.H. 385' East of Lammert Center of alley.	7.59	20.2
5+00		7.3	20.5
+50		5.9	21.9
6+00		4.5	23.3
+50		3.8	24.0
7+00		3.1	24.7

alley bet. Pacific ave & Oliver
& Grand,

June 8/10

Childs
Barber
Taylor

Sta.	H.I.	Rod	Elev.
7+50	27.81	2.4	25.4
8+00		1.6	26.2
+50		0.4	27.4
J.P.	10.54	38.32	0.03
9+00		9.4	28.9
+00.8	M.H. Sta. 0+00 on alley bet. Reed & Thomas.	9.29	29.03
+50		9.1	29.2
10+00		8.2	30.1
+50		7.5	30.8
11+00		5.9	32.4
+50		4.2	34.1
12+00		3.7	34.6
+50		2.3	36.0
+50.8	M.H. Sta. 2+90 on alley bet. Grand & Thomas.	2.29	36.03

John Taylor
C.P.

alley line bet. Thomas + Grand ave from
about 25' west of murrell to about 27' from Haines

June 9/10

Childs
Barber
Jay 13

Sta.		N.I.	Rod	Elev.	Sta		N.I.	Rod	Elev.
J.P.	5.90	<u>43.64</u>	12.90	37.74			<u>50.64</u>		
0 + 00	F.S. about 25'		5.73	37.9	6 + 50			1.0	49.6
+ 50	west of murrell			39.9	J.P.	7.25	<u>57.43</u>	0.46	50.18
1 + 00			3.7		7 + 00			6.3	51.1
+ 50			3.3	40.3	+ 50			5.3	52.1
+ 50			4.4	39.2	8 + 00	0.4% grade from		4.7	52.7
2 + 00			6.2	37.4	+ 50	Center Summit		4.5	52.9
+ 50			7.8	35.8	9 + 00	west to		4.4	53.0
+ 90	about 4' deep, M.H. bottom of canyon		7.57	36.07	+ 50	Center Broadway		4.2	53.2
3 + 00	185' east of Summit		7.5	36.1	10 + 00			4.2	53.2
J.P.	6.27	<u>50.64</u>		50.37	J.P.	5.87	<u>59.91</u>	3.39	54.04
+ 50			12.7	37.9	+ 50			5.8	54.1
4 + 00			10.6	40.0	+ 53			5.9	54.0
+ 50			8.5	42.1	+ 55			7.4	52.5
+ 70			8.1	42.5	11 + 00	0.4% grade		7.4	52.5
+ 75	East line of Summit		6.68	43.9	+ 34			7.1	52.8
5 + 00			7.1	43.5	+ 35			5.0	54.9
+ 50			5.3	45.3	+ 50			4.7	55.2
6 + 00			2.9	47.7	12 + 00			4.0	55.9

Profile plotted
10.5

Conte from page 13

Sta	H.I.	Rod	Elev
12+50	59.91	4.4	55.5
13+00		6.4	53.5
+50		7.9	52.0
14+00		10.6	49.3
+50	0.4% grade	12.7	47.2
15+00		14.2	45.7
+50		14.6	45.3
16+00	about 20 deeps	14.7	45.2
+50		14.3	45.6
17+00		14.1	45.8
+50		13.6	46.3
18+00	0.4% grade	12.8	47.1
+50		12.2	47.7
19+00		11.7	48.2
+50		11.5	48.4
J.P.	8.71	11.54	48.37
20+00	57.08	9.1	48.0

June 9/10

Builds
Bank
Taper

Sta	H.I.	Rod	Elev
20+50	57.08	8.9	48.2
21+00		9.2	47.9
+50		8.4	48.7
22+00	0.4% grade	7.7	49.4
+11		7.2	49.9
+15		5.7	51.4
22+204 East 7' line of Broadway.		5.6	51.5
+50		5.9	51.2
23+00	about 5.5 deep in center of Broadway.	4.2	52.9
+50		1.5	55.6
J.P.	8.97	65.31	0.74
24+00		7.3	58.0
+50		5.6	59.7
25+00		4.6	60.7
+50		4.9	60.4
26+00		4.8	60.5
+50		5.4	59.9

cont. from page 14

Sta	H.I.	Rod	Elev.
27+00	65.31	6.1	59.2
+50		6.8	58.5
+85	F.I. about 27' from Rainolds	6.9	58.4

June 9/10

Leilindo
Barber
Taylor
15

alley line bet. Grand ave. &
 of pendleton to sta 43+70 bit. Hair

Sta.	H.I.	Rod	Elev.
	0.07 34.63		34.56
0+00	m.H. Sta 17+52.5 on pendleton	13.80	21.6
+50		13.4	21.2
1+00		12.4	20.2
+50		10.7	23.9
2+00		9.3	25.3
+50		8.2	26.4
3+00		7.4	27.2
+50		6.4	28.2
4+00		5.3	29.3
+50		3.4	31.2
5+00		1.3	33.3
J.P.	12.42 46.52	0.53	34.10
+50		11.4	35.1
6+00		9.9	36.6
+50		7.5	39.0
7+00		6.5	40.0
+50		5.0	41.5

Profile plotted
 m-c

Hornblend. from center
 & Broddway. June 10/10

Childs
 Paul
 Taylor

Sta.	H.I.	Rod	Elev.
	46.52		
8+00		2.1	44.4
+50		-0.1	46.6
J.P.	3.94 50.46	0.00	46.52
9+00		3.3	47.2
+50		4.0	46.5
10+00		4.8	45.7
+50		5.4	45.1
11+00		4.8	45.7
+50		4.7	45.8
12+00		4.8	45.7
+19		6.5	44.0
+50		7.0	43.5
13+00		7.2	43.3
+50	about 4' deep	7.3	43.2
14+00		7.2	43.3
+50		6.5	44.0
15+00		5.6	44.9

Cont. from page 16

Sta.	H.I.	Rod	Elev.
15+50	<u>50.46</u>	6.7	43.8
16+00		5.4	45.1
+50	about 3.3 deep,	6.8	43.7
17+00		5.3	45.2
+50		4.4	46.1
18+00		3.6	46.9
+50		3.2	47.3
19+00		2.9	47.6
+50		2.6	47.9
J.P.	8.97	<u>57.40</u>	2.03 48.43
20+00		9.0	48.4
+50		8.3	49.1
21+00		7.8	49.6
+50		5.4	52.0
22+00		4.1	53.3
+50		3.0	54.4
23+00		4.1	53.3

17

Sta.	H.I.	Rod	Elev.
23+49.6	<u>57.40</u>	2.4	55.0
west 7 line on Summit.		1.9	55.5
+55 J.P.	6.89	<u>62.61</u>	1.68 58.72
+62		1.7	60.9
24+00		1.9	60.7
+50		4.9	57.7
25+00		6.3	56.3
+50		8.1	54.5
26+00		9.3	53.3
+50		10.2	52.4
27+00		10.1	52.5
+50		10.5	52.1
28+00		10.6	52.0
+50		10.7	51.9
29+00		10.7	51.9
+50		11.6	51.0
30+00		12.7	49.9

0.49% grade

Cont. from page 17								
Sta.		H.T.	Rod	Elev.	Sta.	H.T.	Rod	Elev.
		<u>62.61</u>				<u>66.82</u>		
30+50	about 3' deep		12.8	49.8	38+50		6.2	60.6
31+00			12.2	50.4	39+00		6.4	60.4
+50			11.3	51.3	+50		6.8	60.0
32+00			9.9	52.7	40+00		6.9	59.9
+50			9.1	53.5	+21.7	East 7' line of Broadway.	6.8	60.0
33+00			8.5	54.1	+50		6.7	60.1
J.P.	7.27	<u>61.48</u>	8.40	54.21	41+00		5.3	61.5
+50			6.4	55.1	+50		3.8	63.0
34+00			5.7	55.8	+50		2.8	64.0
+50			5.6	55.9	42+00		1.5	65.3
35+00			5.5	56.0	+50		1.8	65.0
+50			4.5	57.0	43+00		4.1	62.7
36+00			3.9	57.6	+50		4.12	62.7
+50			3.1	58.4	+70	Pt. bet. Broadway & Haines		
37+00			2.1	59.4				
J.P.	6.59	<u>66.82</u>	1.25	60.23				
+50			7.0	59.8				
38+00			6.6	60.2				

alley line bet. Humbleud & Garret
to Haines

Sta.	H.I.	Rod	Elev.
J.P.	5.14	39.70	34.56
0+00	2nd Sta 13+96	11.32	28.4
+50	Purdleton	10.1	29.6
1+00		9.5	30.2
+50		8.5	31.2
2+00		6.4	33.3
+50		4.2	35.5
3+00		2.5	37.2
+50		2.7	37.0
4+00		3.2	36.5
+50		2.2	37.5
5+00		0.9	38.8
J.P.	9.92	48.60	0.02
+38.7	East line alley	9.4	39.2
+50		9.2	39.4
6+00		8.1	40.5
+50		6.2	42.4
7+00		4.5	44.1

Ophe placed
C-4

from center of Purdleton
June 10/10

Sta.	H.I.	Rod	Elev.
	48.60	2.8	45.8
7+50	8.41	54.63	2.38
J.P.		7.2	47.4
8+00		5.4	49.2
+50		4.3	50.3
9+00		3.6	51.0
+50		2.7	51.9
10+00		1.1	53.5
J.P.	5.90	60.44	0.09
+50		4.9	55.5
11+00		3.1	57.3
+50		2.0	58.4
12+00		2.8	57.6
+50		5.8	54.6
13+00		7.4	53.0
+50		8.2	52.2
14+00		8.2	52.2
+50	about 4.5 deep	7.8	52.6
15+00			

Hildes
Barber
Taylor

Cnts. from page 19

June 13/10 { Lebuilds
Barber
Taylor

Sta.	H.I.	Rod	Elev.	Sta.	H.I.	Rod	Elev.
	<u>60.44</u>	7.2	53.2	23+50	<u>66.33</u>	3.9	62.4
15+50						3.9	62.4
16+00		5.5	54.9	+57 west 7' line of Lamont,		4.6	61.7
+50		3.5	56.9	24+00	2.22	<u>63.95</u>	61.73
				J.P.		4.60	
17+00		0.8	59.6	+50		3.4	60.5
J.P.	6.59	<u>66.33</u>	59.74	25+00		3.7	60.2
+50		6.2	60.1			4.0	59.9
18+00		5.7	60.6	+50		4.5	59.4
+50		5.3	61.0	26+00		5.0	58.9
19+00		5.2	61.1	+50 about 6' 6" deep.		4.8	59.1
+50		4.7	61.6	27+00		4.7	59.2
20+00		4.1	62.2	+50		4.5	59.4
+50		3.9	62.4	28+00		4.0	59.9
21+00		3.9	62.4	+50	0.4% grade	4.3	59.6
+50		3.6	62.7	29+00		4.5	59.4
22+00		3.8	62.5	+50		4.6	59.3
+50		4.2	62.1	30+00		4.9	59.0
23+00		4.8	61.5	+50			

Cont. from page 20.

Sta	H.I.	Rod	Elev.
31+00	63.25	5.1	58.8
+50		5.8	58.1
J.P.	10.78	4.38	59.57
32+00	70.35	10.9	59.4
+50		10.3	60.0
33+00		8.4	61.9
+50		7.2	63.1
34+00		6.3	64.0
+50		5.4	64.9
35+00		5.0	65.3
+50		3.6	66.9
36+00		3.2	67.1
+50		2.7	67.6
37+00		1.7	68.6
+50		0.9	69.4
38+00		0.5	69.8
+50		0.7	69.6

about 3' steep

0.4% grade

June 13/10
 Shields
 Barber
 Taylor

Sta	H.I.	Rod	Elev.
39+00	70.35	1.9	68.4
+50		4.1	66.2
J.P.	4.42	4.10	66.25
40+00		7.2	63.5
+50		8.5	62.2
41+00		9.7	61.0
+14.7		9.7	61.0
+50		9.8	60.9
42+00		9.6	61.1
+50		9.2	61.5
43+00		8.4	62.3
+50		7.4	63.3
44+00		7.0	63.7
+50		6.6	64.1
45+00		6.4	64.3
+50		5.4	65.3
+8.5		5.1	65.6

west side
 Broadway.

0.4% grade

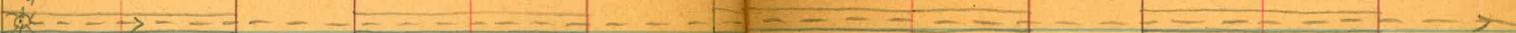
F.I. about 29'
 from H.I.

June 15/10

Colville
Barber
Page 22

Gurnet

45+85



Hinned

43+70

Broadway



Humbled

about 71

27+85

Gavill



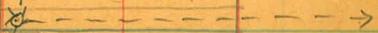
Kendall

Grand

Farnut

Thomas

7+25



Reed

Diamond



Emerald



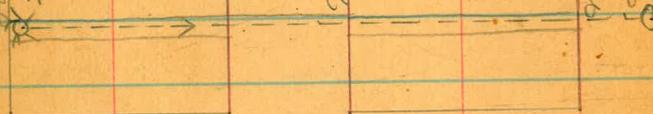
Fieldspar

Amount
22+75

Murell

Amount
10+00
11+50

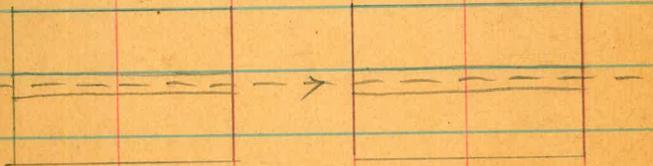
Alroy



Pendleton

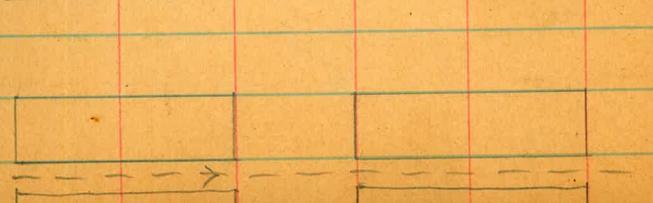
0+00 10+465

Garnet



0+00 13+968

Hornblend



17+525
0+00

alley line bet. Garnet & Fields far
of pendleton to Lamsart

Sta.	H.I.	Rod	Elev.
0+00	47.62	4.3	43.3
+50		5.4	42.2
1+00		4.8	42.8
+50		2.7	44.9
2+00		1.1	46.5
+50		0.0	47.6
3+00		1.2	46.4
+50		4.0	43.6
4+00		4.7	42.9
+50		4.8	42.8
5+00		4.3	43.3
+38.7		3.8	43.8
+50		3.4	44.2
6+00		2.5	45.1
J.P.	11.03	0.21	47.41
+50		8.7	49.7
+77		7.9	50.5

Profile plotted
G-5

about 3' deep

East line bluey

from center

June 15/10

fields
Barber
Page 24

Sta.	H.I.	Rod	Elev.
6+91	58.44	10.0	48.4
7+00		9.7	48.7
+10		7.0	51.4
+50		5.2	53.2
8+00		4.4	54.0
+50		3.4	55.0
9+00		2.3	56.1
+50		1.4	57.0
J.P.	10.74	0.64	57.80
10+00		9.9	58.6
+50		8.1	60.4
11+00		6.8	61.7
+50		6.0	62.5
+58.5		6.10	62.44
12+00		5.8	62.7
+50		4.0	64.5
J.P.	6.23	0.85	67.69
13+00		4.2	68.7

about 4' deep
mk center of
Noyes.

cont. from page 24

Sta.	H.I.	Rod	Elev.
13+50	73.92	3.7	70.2
14+00		4.8	69.4
+50		8.1	65.8
15+00		9.1	64.8
+50		8.1	65.8
16+00		9.5	64.4
+50	about 3' sleep	11.1	62.8
17+00		7.2	66.7
+50		3.4	70.5
18+00		2.1	71.8
+50		1.6	72.3
J.P. 19+00	7.12 80.41	0.63	73.29
+50		6.6	73.8
		6.7	73.7
20+00		6.7	73.7
+50		6.8	73.6
21+00		7.0	73.4

June 15/10

Childs
1325
Jäger

Sta.	H.I.	Rod	Elev.
21+50	80.41	7.1	73.3
22+00		5.8	74.6
+50		4.6	75.8
+75 F.S.		3.54	76.87

80.41
1.03
68.93
5.00
73.93
9.03
65.87

11.48

59.7

65.89
9.03

alley line bet. Fieldspar &
from center of Noyes to Lamon T.

Sta		H.I.	Rod	Elev.
J.P.		12.98		62.44
0+00	M.H. center	<u>75.42</u>	4.64	70.78
+50	Noyes.		3.9	71.5
1+00			2.3	73.1
+50			1.5	73.9
2+00			0.6	74.8
J.P.		11.63	0.77	74.65
+50		<u>86.28</u>	10.3	76.0
3+00			7.9	78.4
+50			10.4	75.9
4+00	about 4' deep		10.5	75.8
+50			7.7	78.6
5+00			5.3	81.0
+50			7.0	79.3
6+00	3' deep.		9.0	77.3
+50			6.5	79.8
7+00			4.0	82.3
+50			1.6	84.7

Emerald

June 16/10
Lalibada Barber Taylor 25

Sta	H.I.	Rod	Elev.
8+00	<u>86.28</u>	1.8	84.5
+50		2.0	84.3
J.P.	8.21	<u>93.45</u>	1.04
9+00		8.5	84.9
+50		7.1	86.3
10+00		6.2	87.2
+50		4.0	89.4
+95 F.S.		2.20	91.2

Profile plotted
C-5

Alley line bet. Emerald &
from center of noyes to Lammart.

Sta.		H.I.	Rod	Elev.
0+00	M.H. center noyes	86.87	5.49	81.4
+50			4.8	81.1
1+00			3.8	83.1
+50			4.1	82.8
2+00			3.7	83.2
+50			2.9	84.0
J.P.	12.22	97.82	1.27	85.60
3+00			13.4	84.4
+50			12.4	85.4
4+00			11.1	86.7
+50			10.3	87.5
5+00			9.9	87.9
+50			5.9	91.9
6+00			4.8	93.0
+50	about 5.5' deep,		4.7	93.1
7+00			4.2	93.6
+50			2.6	95.2

Drummond

June 16/10

Alvillo
Barber
Jay 2.7

Sta.		H.I.	Rod	Elev.
J.P.	11.38	108.25	0.95	96.87
8+00			10.9	97.2
+50			8.9	99.3
9+00			6.4	101.8
+50			5.5	102.7
10+00			5.4	102.8
+50			6.7	101.5
+95	about 3.5 to 4' deep, H.I. about 24' from Lammart		6.96	101.2

1.88
106.76

Woyes street from alley
 Feldspar to alley bet. Emerald &
 Sta.

	H.T.	Rod	Class
0 + 00	m.H. Center alley	74.77	12.33 62.44
+ 50	bet. Garnet & Feldspar		11.1 63.7
1 + 00			9.8 65.0
+ 50			8.5 66.3
2 + 00			7.2 67.6
+ 50			5.9 68.9
3 + 00			5.3 69.5
+ 49.65	m.H. Center alley bet. Feldspar & Emerald	3.99	70.8
4 + 00		2.2	72.6
+ 50			0.3 74.5
J.P.	12.57	86.87	0.41 74.36
5 + 00			10.9 76.0
+ 50			9.5 77.4
6 + 00			8.1 78.8
+ 50			6.6 80.3
+ 48.3	m.H. Center alley bet. Emerald & Diamond	5.49	81.4

bet. Garnet &
 Diamond
 Sta.

June 16/10
 H.T. Rod Elev.

Childs
 Bar 23
 Taylor

Profile plotted
 C-5

alley line bet. Hareyett & Lammitt
mission view st. to pacific ave.

Sta.	H.I.	Rod Elev.
0+00	about 6'2" deep M.H. center of 26.19	7.18 19.01
+50	mission view & alley bet. Lammitt & Hareyett	6.6 19.6
1+00		6.0 20.2
+12.5	200' line of Roosevelt	5.8 20.4
+50		5.2 21.0
2+00	0.4% grade	5.0 21.2
+50		4.8 21.4
3+00		4.7 21.5
+50		4.6 21.6
4+00		4.5 21.7
+50		5.4 20.8
5+00		5.8 20.4
+50	26.70	7.7 19.0
6+00		8.3 18.4
+50		8.3 18.4
7+00		7.7 19.0

Profile plotted
A-6

from center of

June 16/10

Lehilds
Bar 23
Tanger

Sta.	H.I.	Rod Elev.
7+49.6	about 9'5" deep M.H. center of 26.70	7.38 19.32
8+00	Sunset ave.	7.0 19.7
+50		5.9 20.8
9+00		5.8 20.9
+50		5.1 21.6
+87	9°30' R angle	4.8 21.9
10+00		4.5 22.2
+50		4.7 22.0
+57.7	9°30' L angle M.H.	4.5 22.2
11+00		3.2 23.5
+50		37.97 12.9 25.1
12+00		11.7 26.3
+50		10.4 27.6
13+00		9.1 28.9
+50		7.5 30.5
+75	F.I. about 25' to Pacific ave.	6.88 31.1

Sunset ave. from center alley
to center alley bet. Morrell & 4

bet. Summit & Honeycutt
Boulevard st.

June 17/10

Philip
Barber
Tag 30

Sta.	H.T.	Rod	Elev.
0+00	about 9' deep, M.H. center alley bet. Summit & Honeycutt	22.11	2.79 19.32
+50		2.6	19.5
1+00		3.0	19.1
+50	04% grade	3.2	18.9
2+00		3.7	18.4
+50		5.1	17.0
3+00		4.7	17.4
0 1.6	about 8.9 deep, M.H. center alley bet. Honeycutt & Morrell.	4.62	17.49
+50		5.2	16.9
4+00		5.2	16.9
+50		5.9	16.2
5+00		6.6	15.5
+50		7.6	14.5
+91.5	67° 56' L about 7' deep M.H. center alley bet. Morrell & Boulevard	8.95	13.16

1.5
2.5
3.5

Mission View & across mud
on Sunset ave. to Sta. 6+50 on

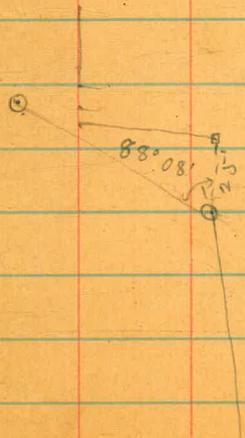
Sta.	about 7' deep. 67° 36' L	H.I.	Rod	Elev.
0+00	M.H. Sta. 5+91.5 on Sunset ave.	16.13	2.97	13.16
+50			4.3	11.8
1+00			5.8	10.3
+50			6.8	9.3
+63	62° 35' R M.H. angle center Mission View		6.97	9.1
+67			6.9	9.2
+78			11.5	4.6
J.P.	1.55	5.20	12.48	3.65
2+00			5.1	0.1
+20	about 2' deep.		9.2	-4.0
+50			9.4	-4.2
3+00			9.1	-3.9
+50			9.0	-3.8
4+00			9.0	-3.8
+50			8.9	-3.7
5+00			9.2	-4.0
+28.1	M.H. Sta. 6+50 on Center of noyes.		9.40	-4.20

flat. from Sta. 5+91.5
noyes.

June 17/10
H.I. Rod Elev.

Childs
Barber
Tupper

Profile plotted
C-6



mission view street from center
 Honeycutt to 37 1/2 so. of Pueblo line
 Sta.

Sta.	H.I.	Rod	Elev.
0+00	24° 10' R about 62 deep, M.H. center alley bet. Lammert & Honeycutt	23.96	4.95 19.01
+50	Y mission view	5.3	19.7
1+00		5.4	19.6
+50		6.2	18.8
2+00	0.4% grade	6.3	18.7
+50		6.8	18.2
+60	43° 48' R - M.H. center about 3' deep	7.18	16.78
3+00	mission view near Lammert	6.6	18.4
+50		6.3	18.7
4+00		5.8	19.2
+50		5.6	19.4
+84	22° 02' L M.H. center alley bet. Lammert & Sequoia	5.10	18.86
5+00	+ mission view	5.1	19.9
+50	0.4% grade	4.7	20.3
6+00		4.0	20.0
+50		3.6	20.4

alley to Lammert &
 or center alley west of
 Shasta

June 20/10
 Childs
 Barber
 Taylor 32

Sta.	H.I.	Rod	Elev.
J.P.	7.65	28.87	2.74 21.22
7+00		8.5	20.4
+50		7.6	21.3
8+00		6.9	22.0
+50		6.1	22.8
+8.56	14° 58' R M.H. center alley bet. Sequoia & Pescadero & center Lafayette	6.58	22.29
9+00		6.3	22.6
+50		5.4	23.5
10+00		5.0	23.9
+50		4.8	24.1
11+00		4.2	24.7
+50		4.3	24.6
12+00		4.5	24.4
+50		4.2	24.7
13+00		4.6	24.3
+80	36° 26' L M.H. near Shasta st.	4.89	23.98
J.P.	28.65		
+50		4.2	24.4

Profile plotted
 0.4% grade

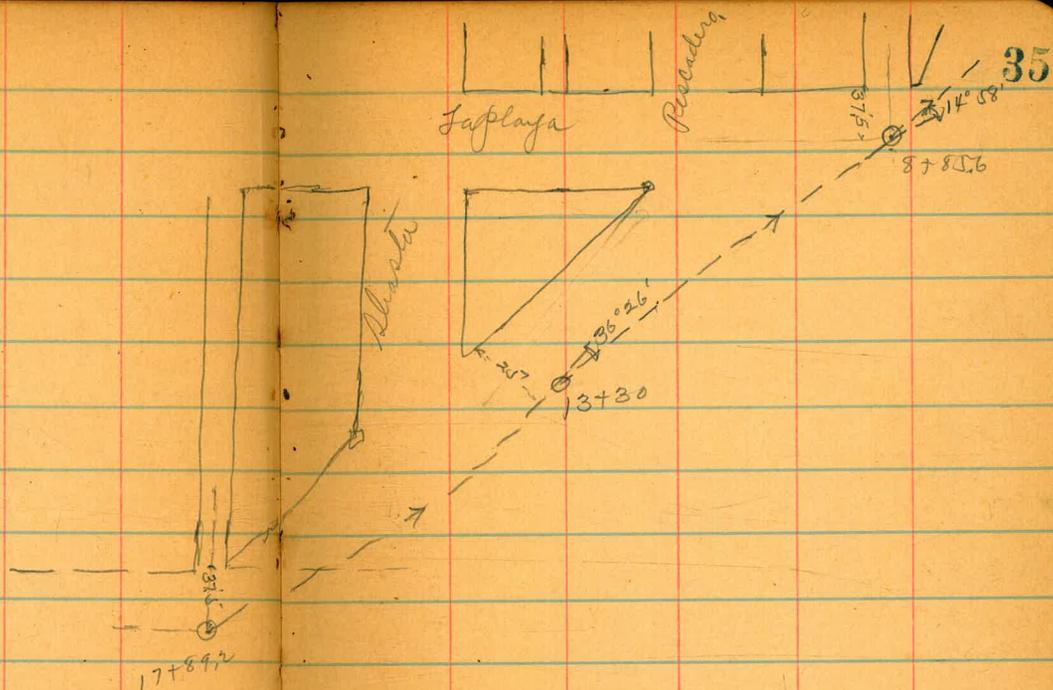
Cont. from page 32.

Sta.	H.I.	Rod	Elev.	Water line
14+00	28.65	4.5	24.1	
+50		4.8	23.8	.01
15+00		4.9	23.7	9.7
+50		4.9	23.7	9.6
16+00	0.4% grade	4.8	23.8	8.8
+50		5.2	23.4	8.7
17+00		5.3	23.3	8.2
+50		4.7	23.9	.78
+89.2	M.H. center alley bet. Shasta & Street West & 3 1/2' so. of Puente line	5.34	23.31	8.4
				18.7
				19.2
				19.4
				8.86
				19.9
				20.3
				20.0
				24.4

June 20/10

Childs
Barber
Taylor 33

Sta.



o+89

o+87 Line of wash, end drain here

o+82

o+78

o+64

o+22

99.14

LT

E

RP

38

$\frac{9.5}{7}$ 10.6 $\frac{11.4}{7}$

$\frac{10.0}{12}$ 10.8 11.6
1X WASH 1X WASH 8.8" WASH

$\frac{6.7}{10}$ 7.3 $\frac{81.49}{7.3}$ 11.65 = F.L. 24" RR
CULV. INLET

$\frac{5.9}{10}$ 6.8 $\frac{7.2}{8}$ RR
TOE EMB.

$\frac{1.0}{10}$ 1.4 $\frac{5.3}{12}$ TOE RR EMB.

$\frac{4.6}{10}$ 6.9 $\frac{6.1}{7}$ TOE RR EMB.

99.14

check 2 orig BM 303 120.97 120.96

T.P. 1267 122.00 0.08 111.33

T.P. 1265 111.41 0.38 98.76

1700

0 + 90 Extra levels for Ad. walls

9914

8.2 8.2 8.8
7 7

8.5 8.5 7.3
7 7

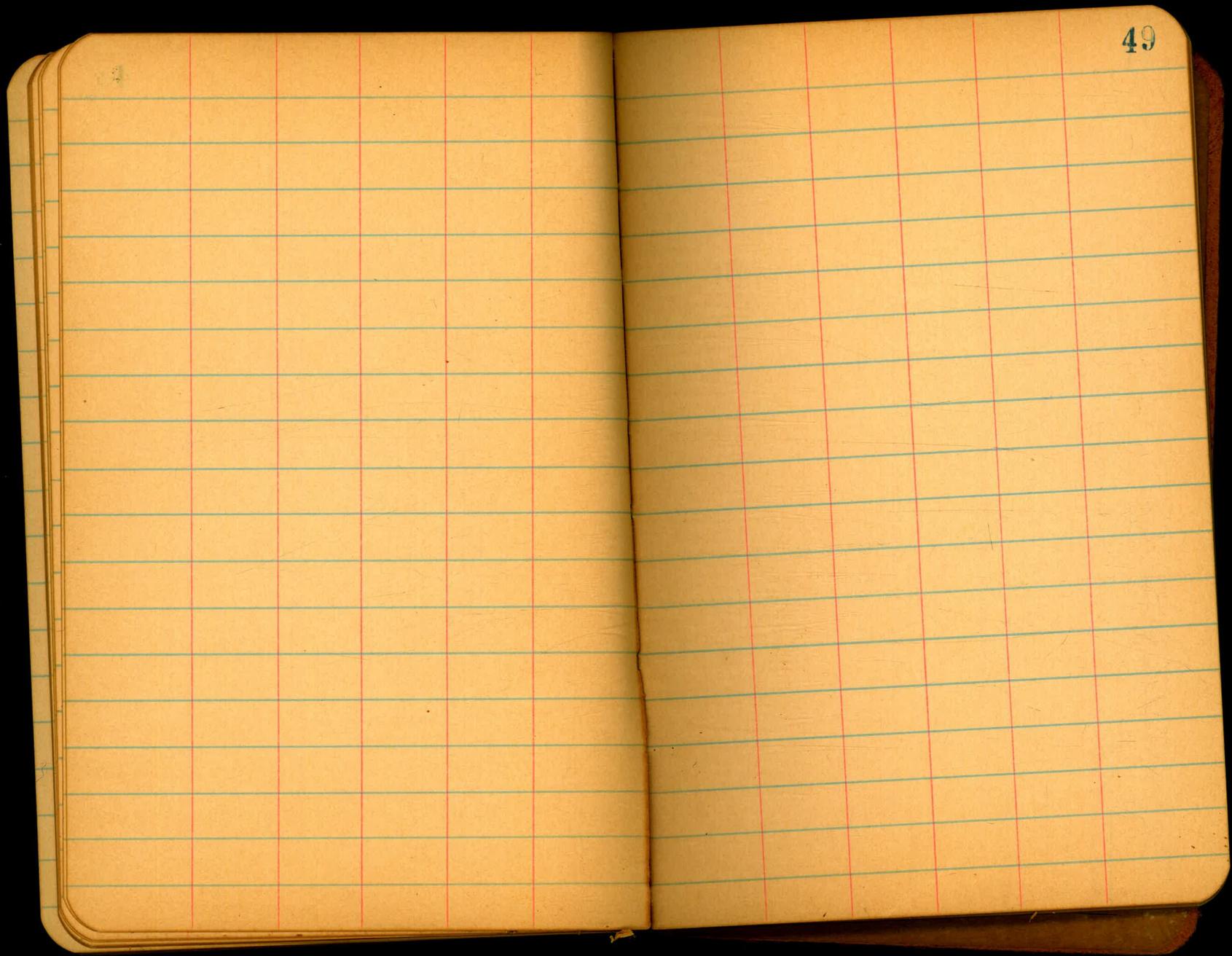
9914
2

40

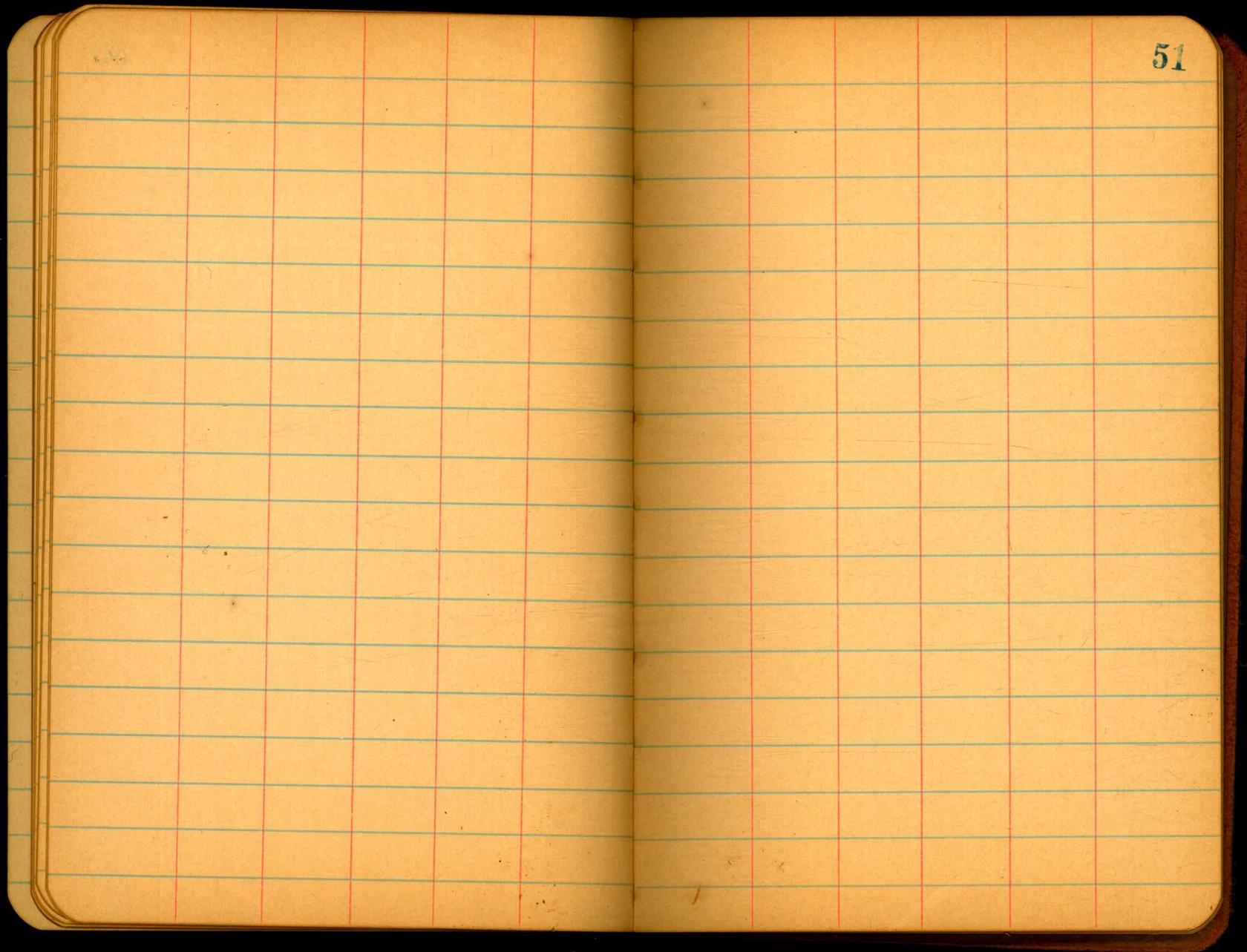
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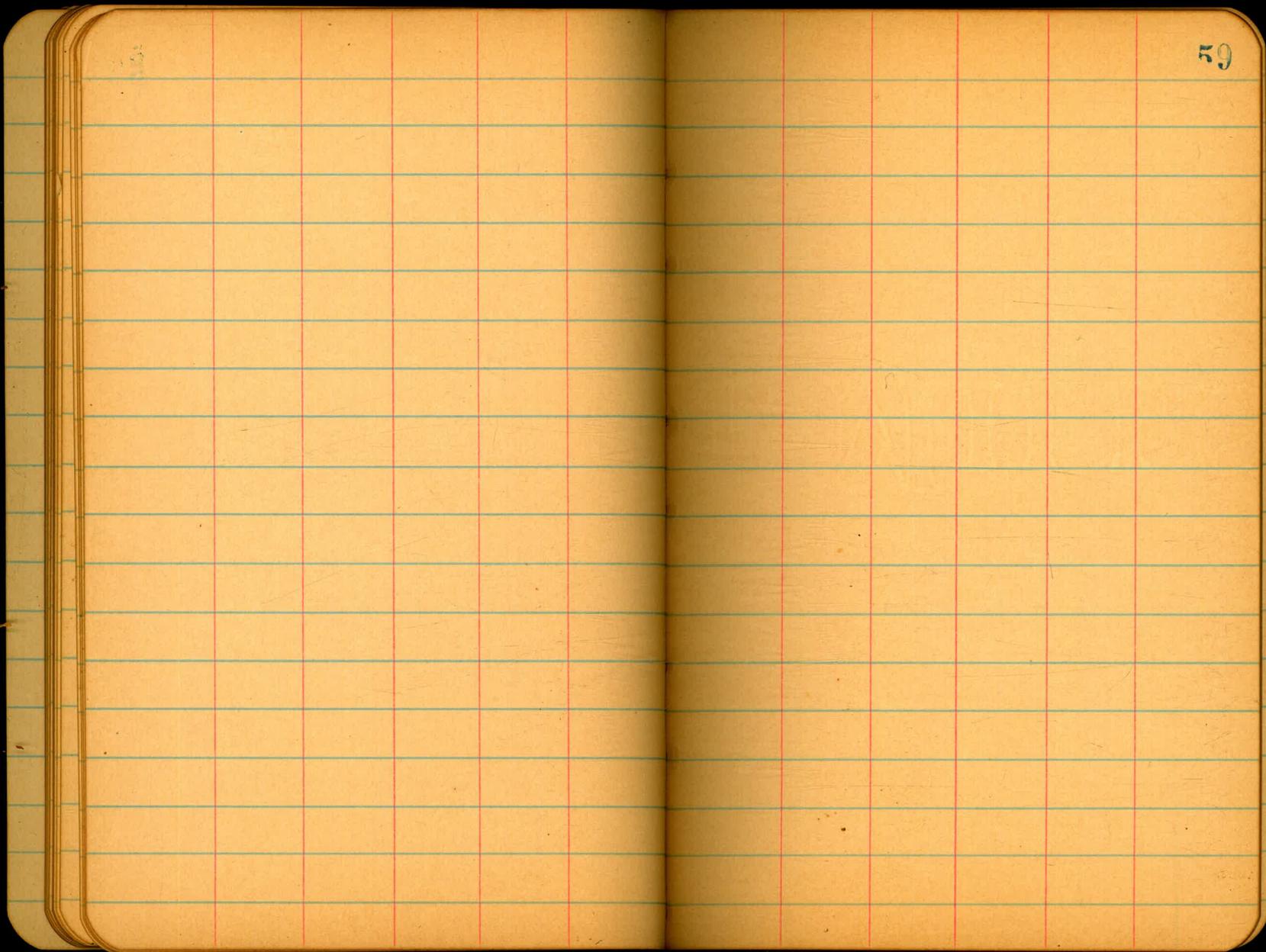


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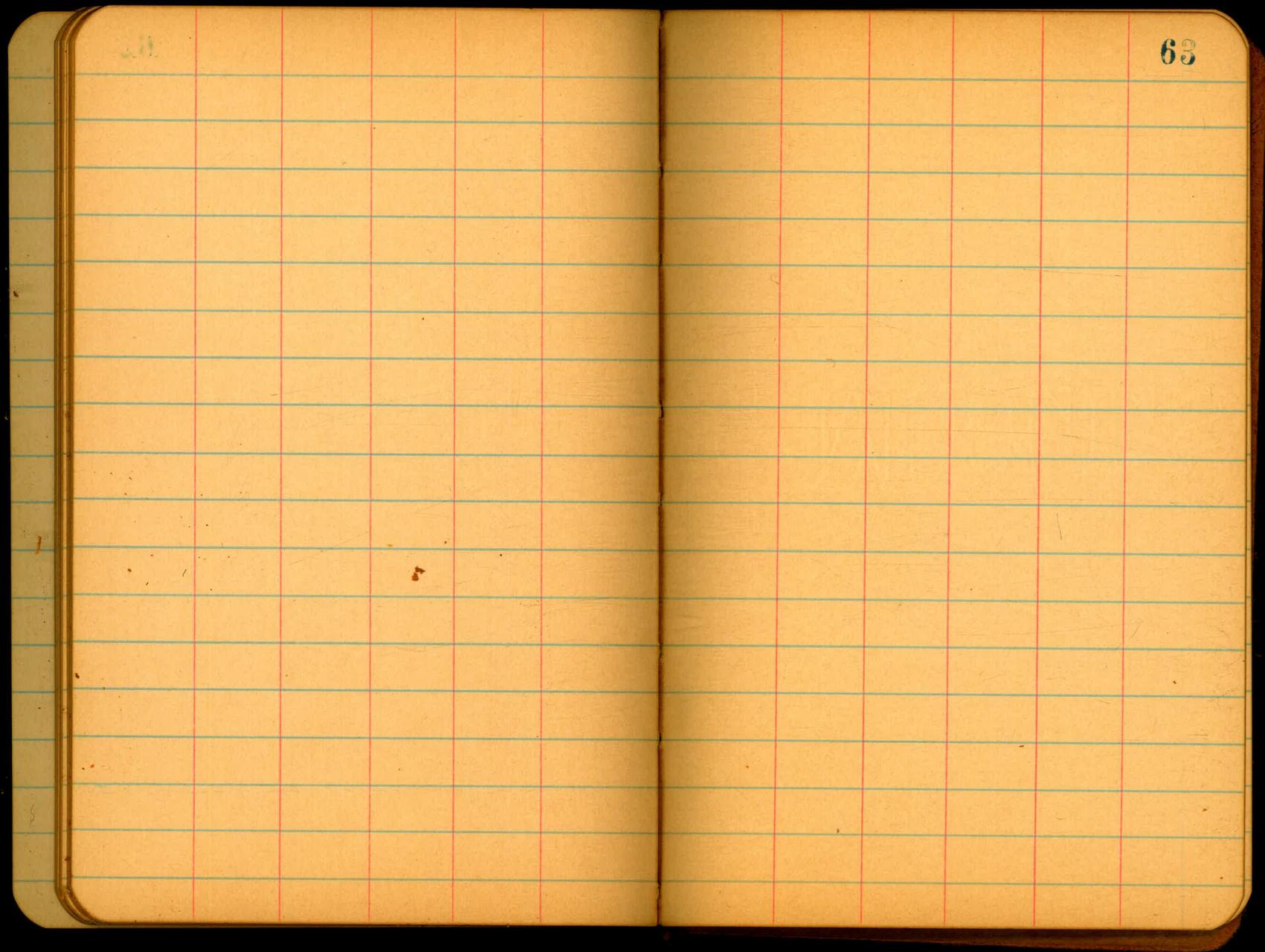
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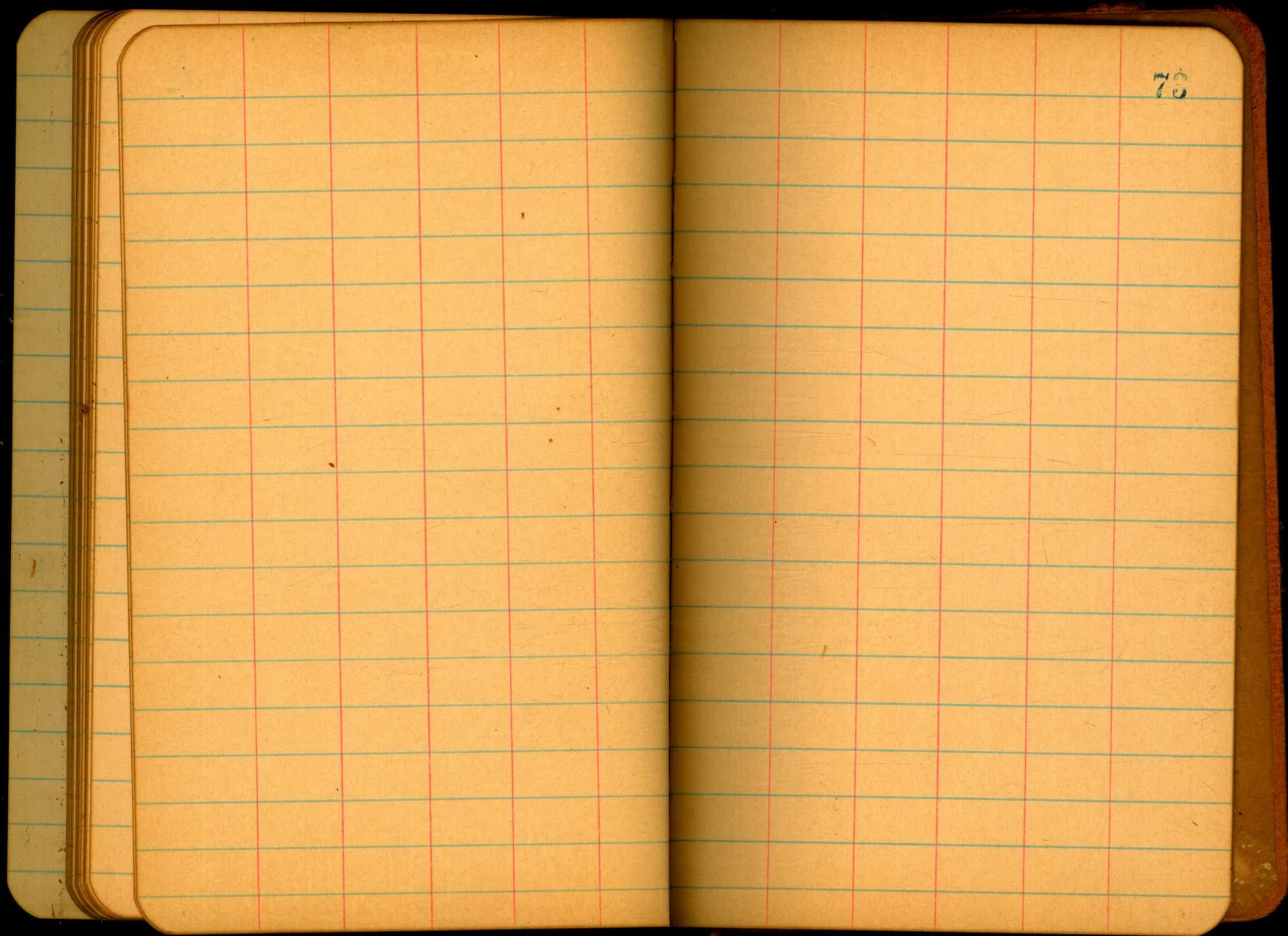
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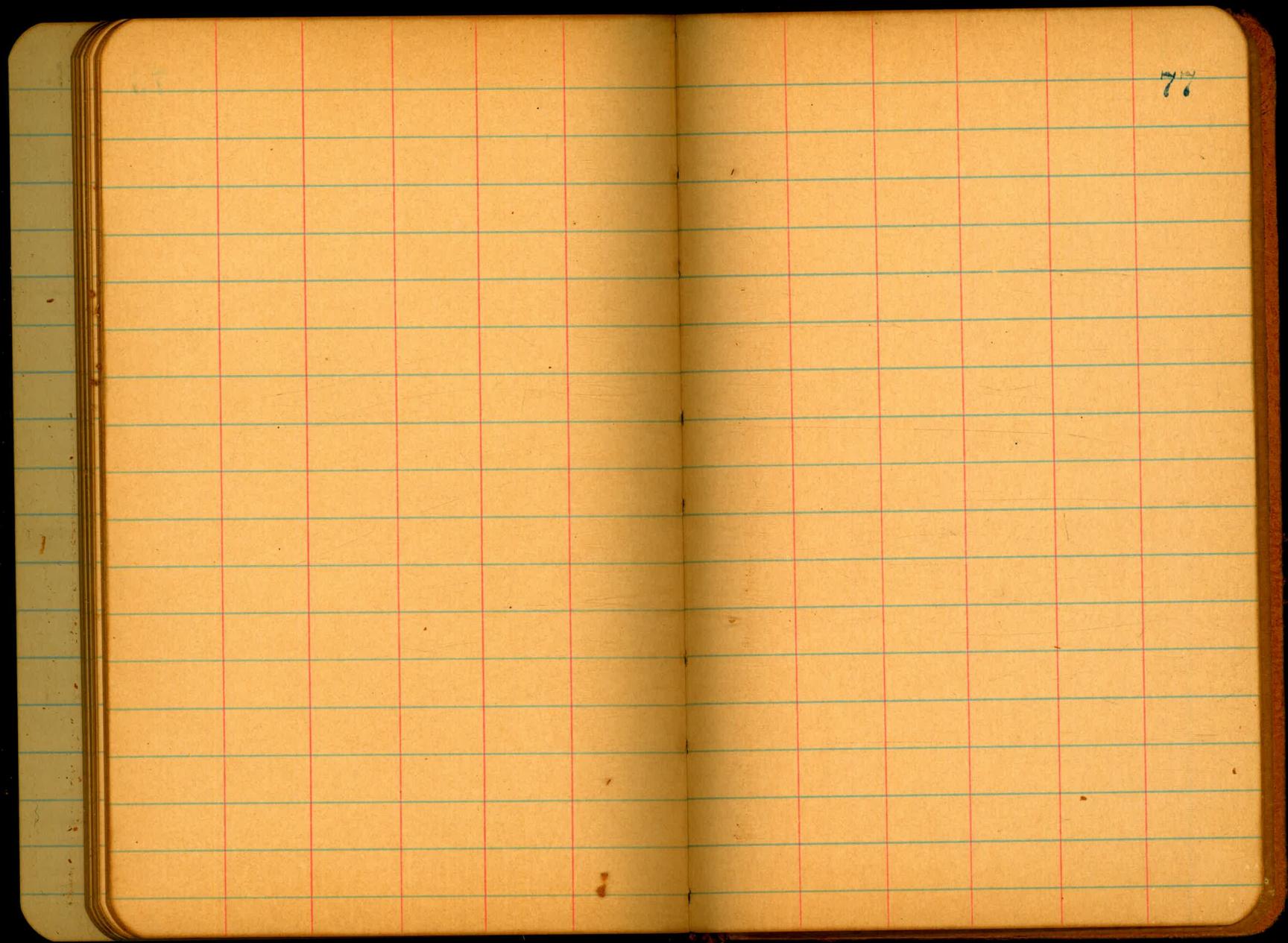
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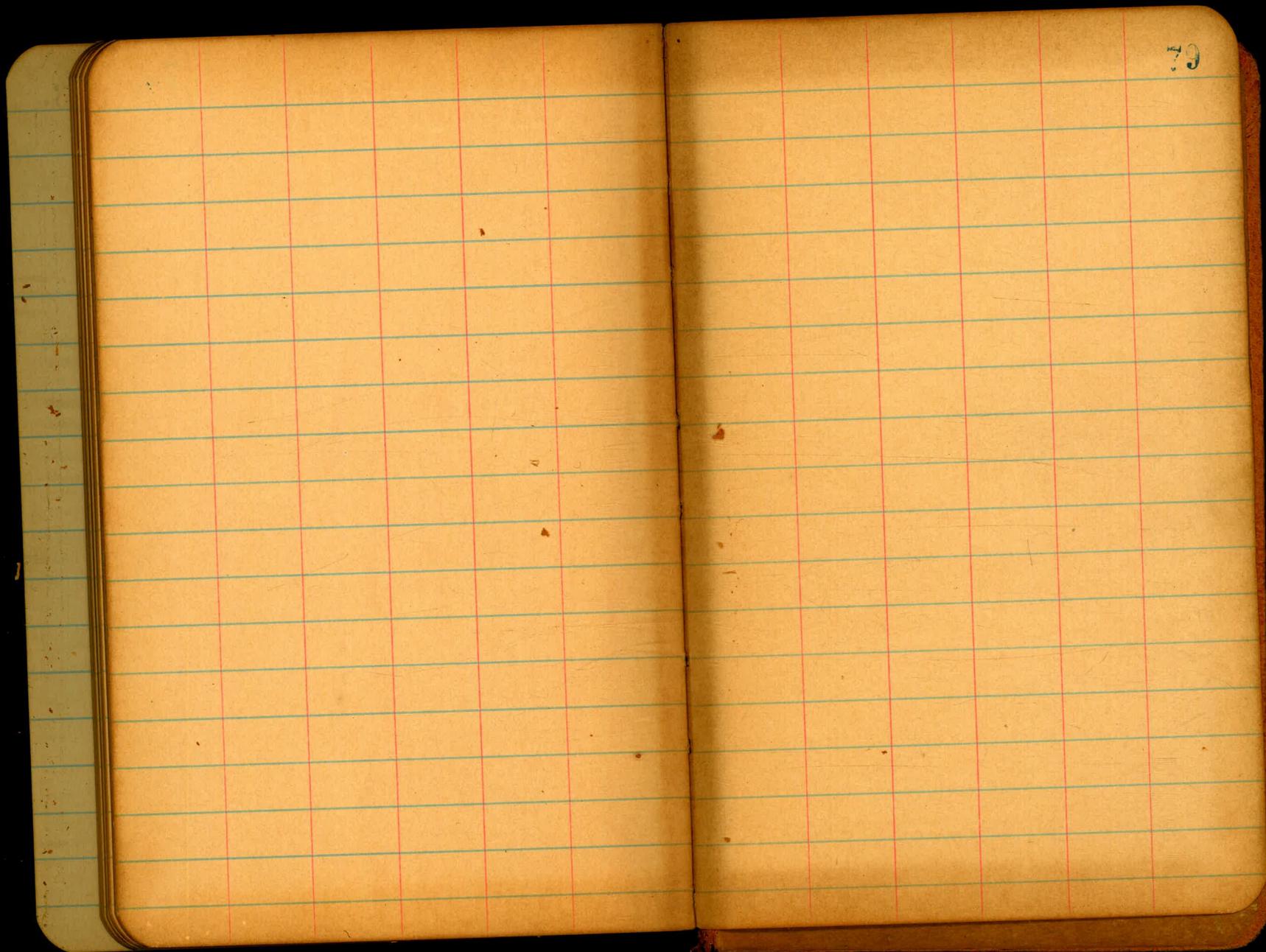
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74



77

78



#400

50.37
0.32
50.69 H.I.
9.20
41.49 J.P.
4.39
45.88 H.I.
8.94
~~54.82~~
36.94 J.P.
1.03
37.97 H.I.
12.11
25.86 J.P.
0.84
26.70 H.I.
7.44
19.26 J.P.
6.93
26.19 H.I.

