

Survey for Wood Pipe  
X section Brewery Road.  
Road from Getti to India St.  
" on Robinson & to 10<sup>th</sup>  
Univ. Bld. Side w. chk. Levels

225  
**F.B. 225**

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

Return to City Engineers Office  
City Hall, San Diego, Cal.  
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.

MICROFILMED

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

DEC 8 1964

284.25  
282.74  
288.37  
90° 04'  
288  
295.5  
448.9  
23  
471.9  
319° 04'

25  
N.W. 10th  
S. the 4 Rob.  
28.8  
51.2  
80.0  
60.14

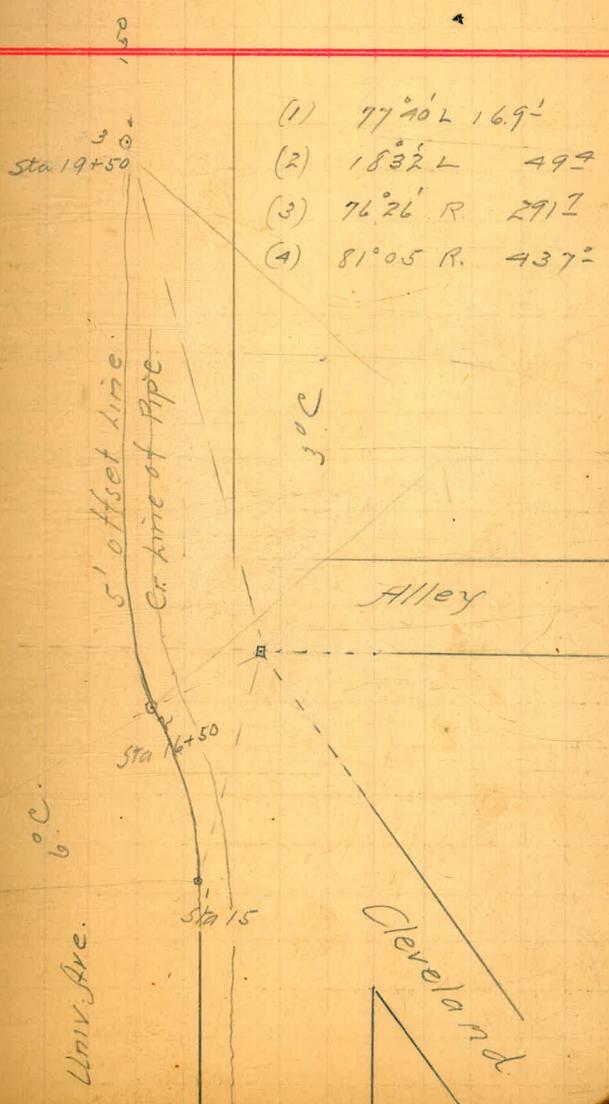
Return to City Engineers Office  
City Hall, San Diego, Cal.

1

8/2/05  
Hatch  
Evans  
Langan  
Dorley  
Sta 21+00

16  
1860  
201 PC  
360 OC

Survey for Wood Pipe



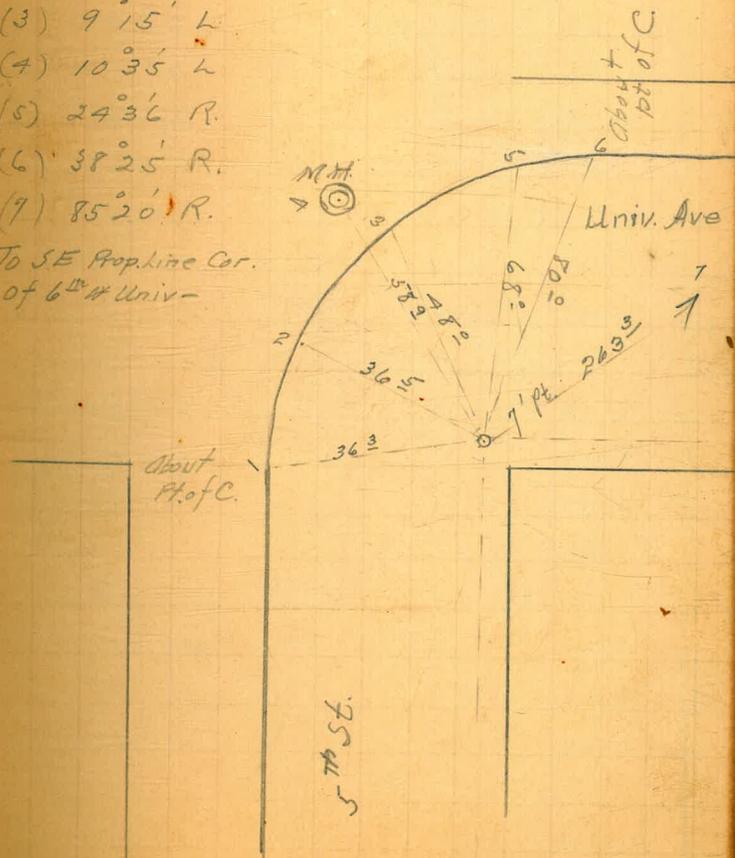
8/2/15

Hatch  
Erwin  
Sanger  
Donon

Map of Car Track  
at 5<sup>th</sup> & University

- (1) 102° 22' L
- (2) 46° 40' L
- (3) 9° 15' L
- (4) 10° 35' L
- (5) 24° 36' R
- (6) 38° 25' R
- (7) 85° 20' R

To SE Prop. line Cor.  
of 6<sup>th</sup> & Univ.



# Brewery Road X-sections

7/2/05  
Haled  
Exam  
Methuen.

22 in 0 →  
40  
40

10.6  
34.9 E. L. Colton

Bm.	1.31	45.48	44.17
-22	20' West of Centre	2.2	43.3
-22	20' " at edge Bank	3.8	41.7
-22	Centre top	4.4	41.1
+22	Centre bottom	11.1	34.4
	Sta. 0+00 Sph. at Main St Line		
	20' West	2.1	43.4
	Centre	3.0	42.5
	20' East	4.4	41.1
	Sta. 0+50		
	20' East	5.0	40.5
	Centre	4.2	41.3
	20' West	2.7	44.8
	Sta. 1+00		
	20' West	4.6	40.9
	10 "	5.7	39.8
	Centre	7.0	38.5
	20' East	7.6	37.9
	Sta. 1+50		
	20' East	9.2	36.3
	Centre	8.8	36.7

4548

20' West	8.1	37.4
Sta. 2+00		
20' West	9.5	36.0
Centre	10.1	35.4
20' East	10.4	35.1
Sta. 2+50		
20' East	12.0	33.5
Centre	11.5	34.0
15' West	11.3	34.2
Sta. 3+00		
15' West	12.4	33.1
Centre	12.6	32.9
20' East	13.1	32.4
13.7	MI	
34.95		11.90 33.58
Sta. 3+50		
15' West	3.0	34.0
Centre	3.5	31.5
20' East	4.0	31.0
Sta. 4+00		
20' East	5.0	30.0
Centre	4.4	30.6
15' West	3.8	31.2

39.95

Sta. 4+50		
15' West.	1.4	30.6
9' "	1.0	31.0
6' "	5.8	29.2
Centre	6.0	28.95
20' East.	6.3	28.7

Sta. 5+00

20' East	8.1	26.9
Centre	7.8	27.2
9' West	7.2	27.8
12' "	5.8	29.2
10' "	5.6	29.4

Sta 5+50

21' West.	6.9	28.1
16' "	10.5	24.5
Centre	11.1	23.9
10' East.	10.8	24.2

4.44 28.86 10.53 24.42

Sta 5+90

20' East.	6.9	27.0
Centre	6.1	27.8

28.86

10' West.	6.6	24.3
17' "	5.2	23.7
22' "	1.9	27.0

Sta 6+00

22' West.	2.0	26.9
17' "	4.9	24.0
14' "	6.2	22.7
11' "	7.8	21.1
Centre	7.1	21.8
5' East.	6.1	22.8
20' "	7.0	21.9

Sta 6+15

22' West	2.4	26.5
15' "	9.9	19.0
Centre	10.0	18.9
5' East	9.3	19.6
6' "	6.7	22.2
20' "	7.2	21.7

Sta 6+20

25' East.	7.0	21.9
21' "	10.6	23.3

	28.86		
Centre	10.5	18.4	
16' west.	10.4	18.5	
22' "	2.6	26.3	
Sta 6+50			
23' west.	4.3	28.6	
18' "	10.2	18.7	
Centre	10.8	18.1	
20' East.	11.1	17.8	
Sta 6+85			
20' East.	11.1	17.8	
Centre	11.9	17.0	
20' west.	10.7	18.2	
Sta 7+00			
20' west.	11.9	17.0	
16' "	12.9	16.0	
Centre	12.8	16.1	
20' East.	12.7	16.2	
0.10 17.02	11.94	16.92	
Sta 7+20			
20' East.	3.2	13.8	
Centre	3.3	13.7	

	17.02		
20' west.	3.5	13.5	
Sta 7+25			
20' west.	4.0	13.0	
Centre	3.9	13.1	
8' East.	4.0	13.0	
10' "	7.3	9.7	
14' "	3.6	13.4	
20' "	3.3	13.7	
Sta 7+30			
20' East.	5.7	11.3	
16' "	5.0	12.0	
14' "	9.0	8.0	
10' "	4.5	12.8	
Centre	4.4	12.6	
20' west.	4.5	12.5	
Sta 7+50			
17' west.	6.8	10.2	
Centre	7.4	9.6	
6' East.	7.4	9.6	
15' "	12.3	4.7	
0.07 4.41	12.65	4.34	

4.41		
Sta 8+00		
15' East.	7.0	- 2.6
10' "	4.5	- 0.1
Centre	5.0	2.4
13' West.	2.8	1.6
20' "	5.3	- .9
Sta 8+50		
17' West.	7.3	- 2.9
12' "	5.8	- 1.4
Centre	5.0	- .6
11' East	5.8	- 1.4
15' "	7.1	- 3.0
Sta 9+00		
12' East.	7.2	- 2.8
9' "	5.1	- 1.0
Centre	5.2	- .8
11' West	6.0	- 1.6
16' "	7.9	- 2.5
Sta 9+50		
18' West.	7.8	- 3.4
10' "	5.2	- .8

4.41		
Centre	4.8	- .4
9' East.	5.2	- .8
4' "	7.2	- 2.8
Sta 10+00		
14' East	7.1	- 2.7
9' "	4.9	- .5
Centre	4.5	- .1
12' West	5.4	- 1.0
16' "	7.3	- 2.9
Sta 10+50		
16' West	7.4	- 3.0
11' "	5.2	- .8
Centre	4.8	- .4
9' East	5.3	- .9
13' "	7.3	- 2.9
Sta 11+00		
13' East	7.2	- 2.8
8' "	5.0	- .6
Centre	4.7	- .3
11' West	5.1	- .7
17' "	7.6	- 3.2

9/1 Skatid  
 1/4 Evans  
 1/5 Mithras

18+25? blaugh-  
 18+94 S

295  
 375  
 - 0.48 10m Sta 12+50

8

	4.91		
Sta 11+50			
18' west	7.6	-	3.2
11' "	4.7	-	.3
Centre	4.4		0.0
7' East	4.8	-	0.4
12' "	7.8	-	3.4

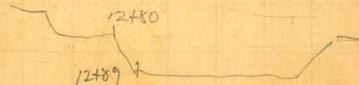
Sta 12+00			
10' East	7.9	-	3.5
5' "	4.9	-	.5
Centre	4.5	-	0.1
11' West	4.9	-	.5
18' "	7.8	-	3.4
2.19	2.95	3.92	0.49

Sta 12+50			
8' East	6.0	-	3.0
4' "	3.7	-	.7
Centre	3.5	-	.5
12' West	3.7	-	.7
18' "	6.3	-	3.3

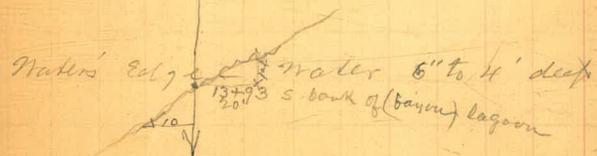
5/9/05 Mc Loran  
Wetmore  
Thomas

9

	Sta 12.50		
	1.40		- 4.48
	0.92		
	Sta 12.55		
12	E	4.1	- 3.2
2	"	1.4	- 0.5
6	"	0.9	00
12	W	1.4	- 0.5
18	"	4.6	- 3.7
	St 12.62		
18	W	4.8	- 3.9
14	"	3.3	- 2.4
6	"	3.0	- 2.1
5	E	3.4	- 2.5
8	E	4.1	- 3.2
	St 12.80		
6	E	4.9	- 4.0
3	E	3.6	- 2.7
6	"	3.1	- 2.2
20	W	4.1	- 3.2
18	"	3.1	- 2.2



		0.92		
6	E	St 12.789	5.8	
6	E		5.3	- 4.4
6	E		4.9	- 4.0
20	W		4.7	- 3.8
		St 13.700		
20	W		4.4	- 3.5
6	E		5.5	- 4.6
15	E		6.4	- 5.5
		St 13.727		
6	E		6.4	- 5.5
20	W		5.4	- 4.5
		St 13.757		
20	W		6.5	- 5.7
		St 13.793		
6	E		4.1	- 3.2
20	E		4.3	- 3.4
		St 14.000		
20	E		4.3	- 3.4
6	E		4.6	- 3.7
10	W		4.2	- 3.3



Edge of Bank

		0.92 Sta 16+25		
20	N		5.9	- 5.0
CC			5.5	- 4.6
		Sta 16+50		
20	E		4.7	- 3.8
Cr			4.5	- 3.6
20	N		4.5	- 3.6
		Sta 16+95		
20	N		4.9	- 4.0
Cr			4.7	- 3.8
20	E		4.9	- 4.0
T.D. at 17+50	511		4.90	- 3.98
		1.13 at 17+00		
20	E		5.2	- 4.1
Cr			5.1	- 4.0
20	N		5.3	- 4.2
		Sta 17+10		
Cr			5.5	- 4.4
20	N		5.0	- 3.9
20	E		5.1	- 4.0

Lagoon 10' wide 1 1/2' deep

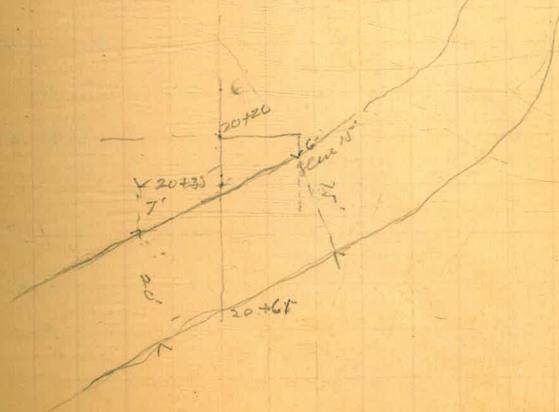
" 7 " 1 1/2' deep

Blue

		1-13		
		St 17+22	4.6	-3.5
20	E		4.8	-3.7
		St 17+50	5.0	-3.9
20	N		5.7	-4.6
			5.3	-4.2
20	E		5.2	-4.1
		St 18+00		
20	E		4.8	-3.7
			5.8	-4.7
20	N		5.3	-4.2
		St 18+50		
20	N		4.6	-3.5
			4.6	-3.5
20	E		4.6	-3.5
		St 19+00		
20	E		4.6	-3.5
			4.6	-3.5
20			4.6	-3.5

		St 19+50		
20	N		4.8	-3.7
	Cr		4.8	-3.7
20	E		4.7	-3.6
		St 20+00		
20	E		4.9	-3.8
	Cr		4.8	-3.7
20	N		4.8	-3.7
		St 20+10		
20	N		5.3	-4.2
	Cr		4.6	-3.5
20	E		5.1	-4.0
		St 20+20		
20	E		4.7	-3.6
	Cr		6.2	-5.1
20	N		6.0	-4.9
		St 20+35		
20	N		5.9	-4.8
	Cr		5.0	-3.9

20+35 bank of river 15 ft wide



21.00  
39  
20+61

21.00  
31  
6  
20+65

14

		1.13		
		St 20+61		
20	N		5.0	-3.9
cr			5.0	-3.9
20	E		5.9	-4.8
		St 20+78		
20	E		4.6	-3.5
cr			4.5	-3.4
20	N		4.5	-3.4
		St 20+93		
20	N	9.27	1.82	-0.69
		8.58		
20	N		7.2	+1.4
cr			6.6	2.0
20	E		6.6	2.0
		St 21+00		
20	E		6.9	1.7
cr			6.1	2.5
20	N		7.1	1.5
		St 21+50		
20	N		5.0	3.6
cr			4.7	3.9
20	E		2.5	4.1

Sta 20+61 for S bank of sluc

" 20+39 " " " " sluc

Edge of debris

at 20 N from debris is 4 feet



		St 21+66		
20	W		5.6	3.0
14	W		3.9	4.7
Cr			4.0	4.6
20	E		3.9	4.7
		St 21+77		
20	E		3.8	4.8
5'	E		3.8	4.8
Cr			4.6	4.0
20	W		5.7	2.9
		St 22+00		
20	W		3.9	4.7
15	W		4.5	4.1
10	W		5.0	3.6
Cr			4.9	3.7
20	E		4.1	4.5
		St 22+15		
20	E		3.7	4.9
10	E		3.0	5.6
Cr			4.0	4.6
5'	W		4.1	4.5
15'	W		2.0	6.6
20	"		1.8	6.8

Bottom of slope R R dump.

St 22+15

Top of slope R R dump

753 25.  
-0.48

16

		8.58		
		St 22+24		
20	W		1.1	7.5
or			1.7	6.9
7'	E		3.1	5.5
20	E		2.5	6.1
		St 22+29		
20	E		3.0	5.6
14	E		2.6	6.0
8	E		1.6	7.0
or			1.05	7.53
20	W		1.60	7.0

Top of Slope R.R. Bump

Iron Gas Pipe at E. Rail

7/20/25 Hatch  
 Levels <sup>to</sup> ~~from~~ <sup>to</sup> ~~from~~ 5% Grade in Canon  
 from Near Sessions Nursery to Indig. St. Rd.

15+15 about  
 S. line of bridge 40  
 on W. line of Roadcut

53+25 about 10' E  
 of NE 37

17

(Clay & Grotti)

BM	259	274.75		277.21
0+00	1.15	263.73	12.17	262.28
1			6.45	257.28
2			11.15	252.28
T.P.	2.87	257.50	12.10	251.63
3			7.22	247.28
4			12.22	242.28
T.P.	6.93	243.57	11.86	242.64
5			6.29	237.28
6			11.29	232.28
T.P.	0.34	231.36	12.55	231.02
7			4.08	227.28
8			9.08	222.28
T.P.	2.11	222.94	10.53	220.83
9			5.66	217.28
10			10.66	212.28
T.P.	2.05	213.25	11.74	211.20
11			5.97	207.28
12			10.77	202.28
T.P.	0.86	203.37	10.74	202.57
13			6.09	197.28

203.37

14			11.09	192.28
T.P.	2.15	193.25	12.57	190.80
15			5.97	187.28
16			10.97	182.28
T.P.	3.15	184.28	12.17	181.13
17			7.00	177.28
18			2.00	172.28
T.P.	1.73	173.99	12.02	172.26
19			6.71	167.28
20			11.71	162.28
T.P.	1.83	162.85	12.97	161.02
21			5.57	157.28
22			10.57	152.28
T.P.	2.11	152.35	12.91	149.94
23			5.07	147.28
24			10.07	142.28
T.P.	1.07	142.48	10.94	141.41
25			5.20	137.28
26			10.20	132.28
T.P.	0.30	132.33	10.45	132.03
27			5.05	127.28

262

95

167.30

150.55

16.75

200

132.83

28.

11.05 122.28

T.P.

0.14 120.17 12.30 120.03

0.61 107.92 12.86 107.31 (Arch.)

29

about <sup>Common Cor. of</sup> <sub>Bike 170 3/11</sub> } 13.00 99.92

Survey of Road from Getti St  
to India St. Road by way of  
— Roark Street —

Sta.	L.	R.	Mag.	Ded.
19+30 <sup>7</sup>				
19+09		2°20'	S21°W	S35°40'W
14+50	345'		S18°50'W	S33°20'W
12+00	10°40'		S22°30'W	S37°05'W
11+00	9°00'		S33°W	S47°45'W
10+50	20°00'		S42°W	S56°45'W
9+50	6°00'		S62°W	S76°45'W
7+84 <sup>9</sup>				
2+34 <sup>7</sup>		83.19'	S68°W	S82°45'W
1+42 <sup>5</sup>		N. line of Cemetery.		
0+00			S15°10'E	S0°34'E

9/22/05 <sup>Sketch</sup> <sup>Exam</sup> Level Notes P. 21.  
H. Adams

19

Note -  
Pueblo Cor A' to West  
Side Pringle St. = 385'

A - S76°10'W  
N59°20'E

Pueblo line

12+75

N 13°25'W (mag.)

95°15'

170'

NE. Cor  
Protestant  
Cemetery

Randolph

St.

Getti

60'

Street

52-51  
37-38  
24-23  
10-11

20

L	R			
37+60	India St Road.			
34+98	90°			
32+91	72°23'	55110°E	53673°E	
31+80				
29+29 <sup>2</sup>				
26+79 <sup>2</sup>				
24+29 <sup>2</sup>				
21+30				

N line 10-11

N line 24-28

N line 37-38

N line 52-51

S line 74 - 73

Levels on Staked Line of Road.

Transit Notes P. 19

21

B.M.	128	273.49	272.21
0		5.0	268.5
+50		6.5	267.0
+70		7.6	265.9
1		6.8	266.7
+50		5.4	268.1
+80		4.8	268.7
2		5.3	268.2
+34 <sup>A</sup>	Δ	6.7	266.8
+50		7.2	266.3
3		8.3	265.2
+50		10.0	263.5
T.P.	0.24	260.93	12.80
4		7.0	259.9
+50		1.3	259.6
5		1.3	256.6
+33		8.0	252.9
+50		8.6	252.3
+68		8.3	252.6
6		9.9	251.0
+35		12.3	248.6

260.93

T.P.	0.99	249.55	12.37	248.56
+50			3.5	246.0
+70			5.5	244.0
+90			3.7	245.8
7			5.2	244.3
+50			9.3	240.2
8			9.9	239.6
T.P.	0.90	241.09	9.36	240.19
+50			6.9	234.2
9			7.7	233.4
+23			6.2	234.9
+50			7.8	232.3
10			12.1	229.0
T.P.	5.38	235.39	11.38	229.71
+15			5.0	230.1
+50			9.2	225.9
11			11.3	223.8
T.P.	1.31	225.76	10.64	224.43
+50			5.5	220.3
12			6.3	219.4
+20			7.7	218.0

225.76

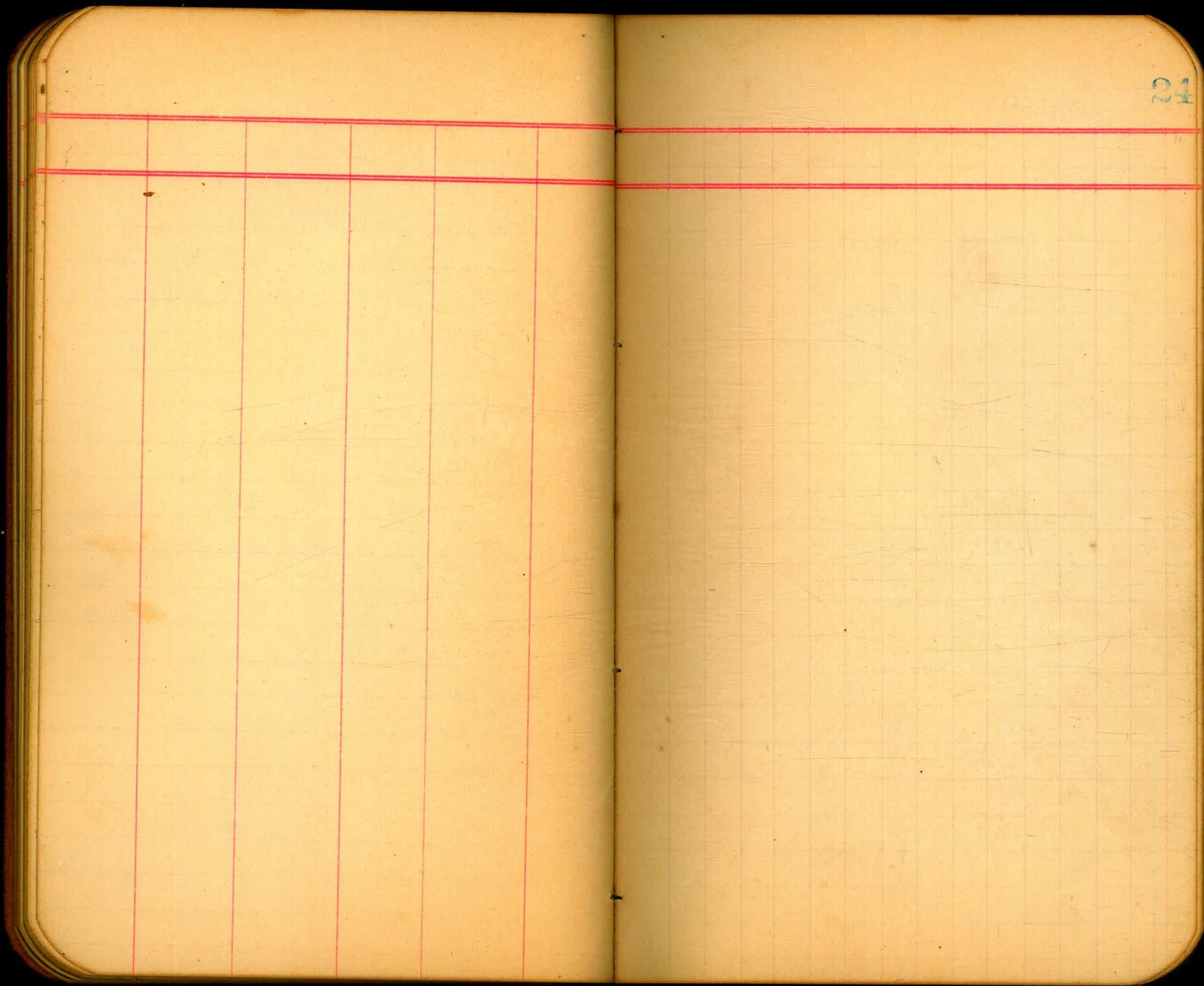
T.P.	1.35	215.10	12.01	213.75
12+50			3.6	211.5
+85			14.0	201.1
13			9.7	205.4
+50			4.4	210.7
14			3.2	211.9
+15			1.4	213.7
+50			1.5	213.6
T.P.	1.73	211.80	3.03	210.07
+83			1.5	210.3
15			1.0	210.8
+50			4.0	207.8
16			9.1	202.7
+50			1.2	199.8
T.P.	2.35	202.20	11.95	199.85
+75			2.7	199.5
17			5.7	196.5
+50			7.3	194.9
18			4.1	198.1
+25			4.0	198.2
+50			6.2	196.0

202.20

+75			7.3	194.9
19+09			12.8	189.4
T.P.	7.63	198.98	10.85	171.35
+50			13.6	185.4
20			8.7	190.3
+35			4.0	196.0
+50			4.0	195.0
21			5.6	193.4
+50			7.7	191.3
22			9.9	190.1
+50			8.1	190.9
+70			9.3	190.7
23			12.3	186.7
T.P.	0.17	187.38	11.77	187.21
+50			6.0	181.4
+75			8.4	179.0
24			9.4	179.0
+25			11.4	176.0
T.P.	2.14	177.67	11.85	175.53
+50			6.2	171.5
25			8.7	169.0

		177.67 <sup>✓</sup>		
25+50			10.4	167.3
+85			11.5	166.2
T.P.	0.82	166.04 <sup>✓</sup>	12.45	165.22
26			2.5	163.5
+50			10.4	155.6
27			10.1	155.9.
T.P.	0.90	154.73 <sup>✓</sup>	11.71	154.33
+50			5.0	149.7
28			14.2	140.5.
T.P.	0.15	143.85 <sup>✓</sup>	11.03	143.70
+50			6.2	137.7
29			12.6	131.3
T.P.	0.65	132.33 <sup>✓</sup>	12.17	131.68
+50			7.6	124.7
T.P.	0.76	120.61 <sup>✓</sup>	12.48	119.85
30			2.0	118.6
+50			6.9	113.7
31			11.2	109.4
T.P.	1.22	110.30 <sup>✓</sup>	11.53	109.08
+50			7.2	103.1
32			13.0	97.3

		110.30 <sup>✓</sup>		
T.P.	1.95	99.91 <sup>✓</sup>	12.34	97.96
32+50			7.6	92.3
+91 Δ			12.4	87.5
33+50			5.0	94.9
34			1.1	98.8
T.P.	3.41	99.47 <sup>✓</sup>	3.85	96.06
+50			1.0	98.4
+98 Δ			1.0	98.5
35+50			9.2	90.3
T.P.	0.71	87.43 <sup>✓</sup>	12.75	86.92
36			3.6	83.8
+50			8.1	79.3
37			12.5	74.9
T.P.	0.51	76.39 <sup>✓</sup>	11.55	75.88
+50			6.3	70.1
355			6.7	69.7
+60	India St Road.		11.9	64.5
	on Centre line of McNealy St -			



Road Survey across canyon  
bet. 8<sup>th</sup> & 10<sup>th</sup> on Robinson,  
Nov. 24, 1905.

POSTED

Nov. 24, 1905.

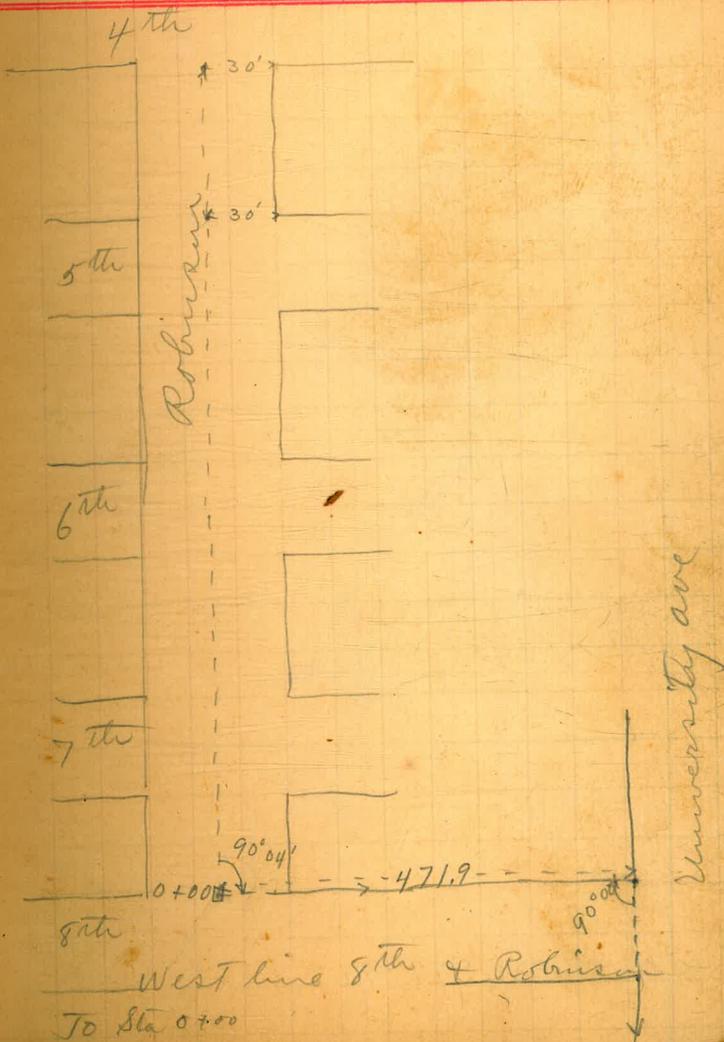
Childs  
Munson  
Hawkins

25

Sta.	Angle	Bearing	
8+00			
+50			
7+00	46° 33' RS	54° 26' E	
+50			
6+00	9° 12' L	77° 06' E	
+40	46° 42' L	71° 18' E	
5+00	11° 20' L	54° 00' E	
+50	39° 41' L	53° 40' E	
4+00	23° 12' RS	6° 01' W	
3+74.9			West line 9 <sup>th</sup> St.
+50			
3+00	124° 27' R	81° 11' E	
+50			
2+00	13° 26' L	71° 38' 22" E	
1+80	27° 13' L	75° 42' E	
+50			
1+00	40° 55' L	71° 78' 55" E	
+28.8			
0+00	29° 50' R	56° 10' E	
center 5 <sup>th</sup> & Robinson		59° 00' E	

8% grade

10% grade

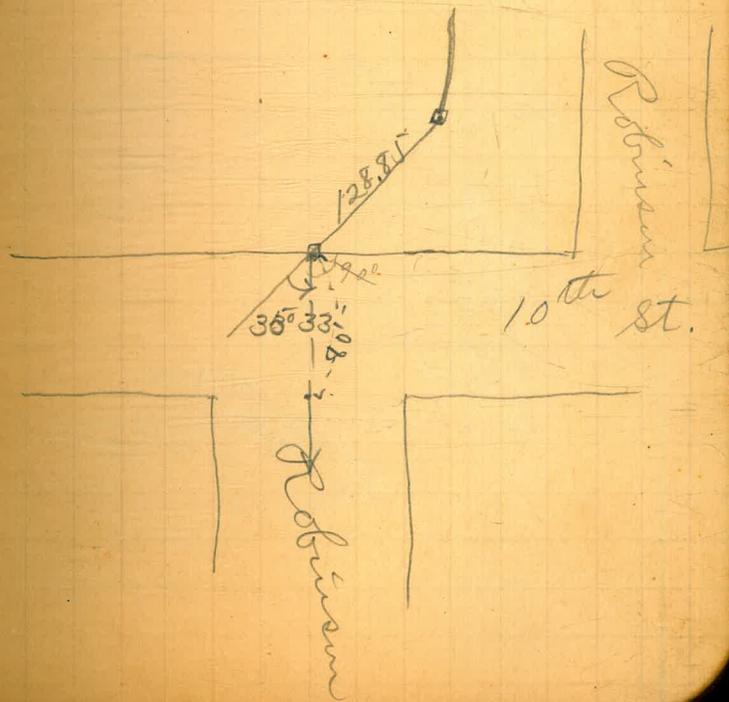


University ave

Sta angle Bearing

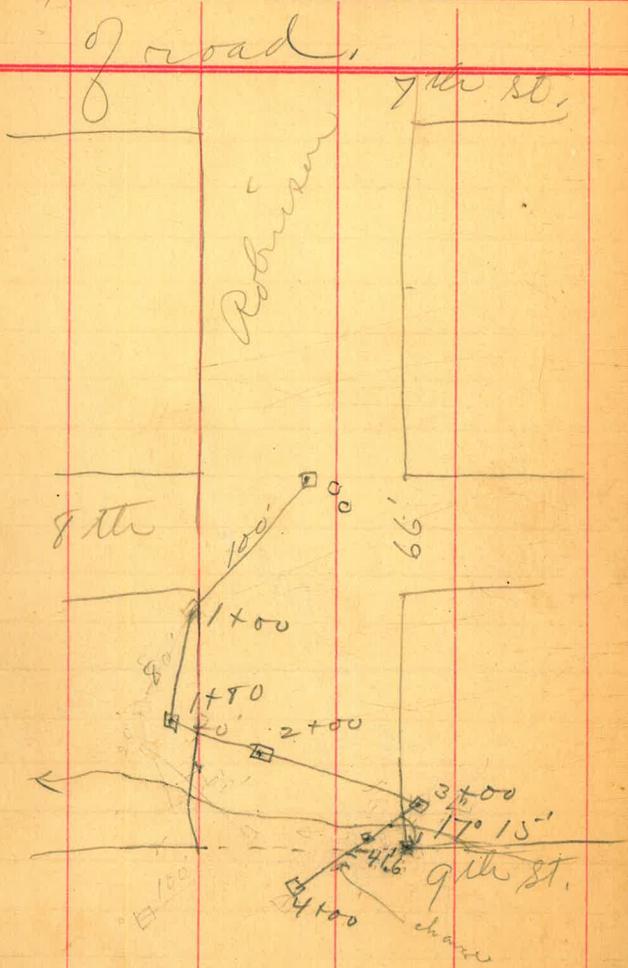
B.M. 282.74 10<sup>th</sup> st

8+28.85 35° 33' L S 89° 59' E



9th Street intersection

of road,



Levels

Sta.	H.I.	F.S.	BS	Elev.
	286.19		<del>282.45</del>	282.74
0+00	280.76	6.5		274.3
0+08		3.4		
0+288		2.2		
+55		6.5	<del>12.45</del>	
1+00	268.95	5.1		
+38		5.5		
1+50		7.2		
+80		12.8		
2+00	257.76	3.9		
+50		7.7		
3+00	250.20	6.2		
+50		11.4		
+74.9		7.4		
4+00	257.76	5.7		
+35	268.95	11.7		
+50		12.7		
+80		8.6		
5+00		9.9		
+16		8.2		
+40		4.7		

T.P. 12.86      267.90      1.05 268.95

T.P. 12.47      256.48      1.28 257.76

T.P. 12.32      245.44      4.76 250.20

	H.I.	FS	B.S.	Elev.
<del>67</del>	286.19	10.86		275.33
	280.76		5.43	
6700		12.6		268.2
+50		9.6		271.2
7700	286.19	10.9		275.3
7715		13.7		
+50		6.8		
8400		6.1		
872885		4.3		281.9

Road on Robinson bet.

Dec. 14, 1905

8<sup>th</sup> + 10<sup>th</sup>

Childs  
Evans 30  
Wetmore

Sta. angle Bearing

7+00

+47 42° 18' R S 71° 59' E

6+00

+45 14° 15' L N 66° 43' E

5+00

+45.2 25° 21' R N 79° 58' E

4+00

+84.6 75° 26' L N 54° 37' E

+50

+23 19° 07' L S 49° 57' E

3+00

+50

+40.2 52° 47' R S 30° 50' E

2+00

+77.4 58° 54' L S 83° 37' E

+50

1+00

+50

0+35 beginning of 11.21% grade

0+00 65° 17' R S 24° 43' E

59° 00' E

$$\begin{array}{r} 445.2 \\ 389.6 \\ \hline 60.6 \end{array}$$
  
Beginning of 14% grade  
End of 11 1/2% grade

61.6

$$\begin{array}{r} 323 \\ 24 \\ \hline 82.8 \end{array}$$

$$\begin{array}{r} 240.2 \\ 177.4 \\ \hline 62.8 \end{array}$$

4<sup>th</sup>



5<sup>th</sup>



6<sup>th</sup>



7<sup>th</sup>



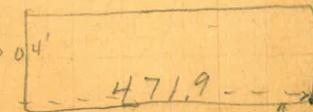
8<sup>th</sup>



S 90° 04' E  
Robinson



ST.



471.9

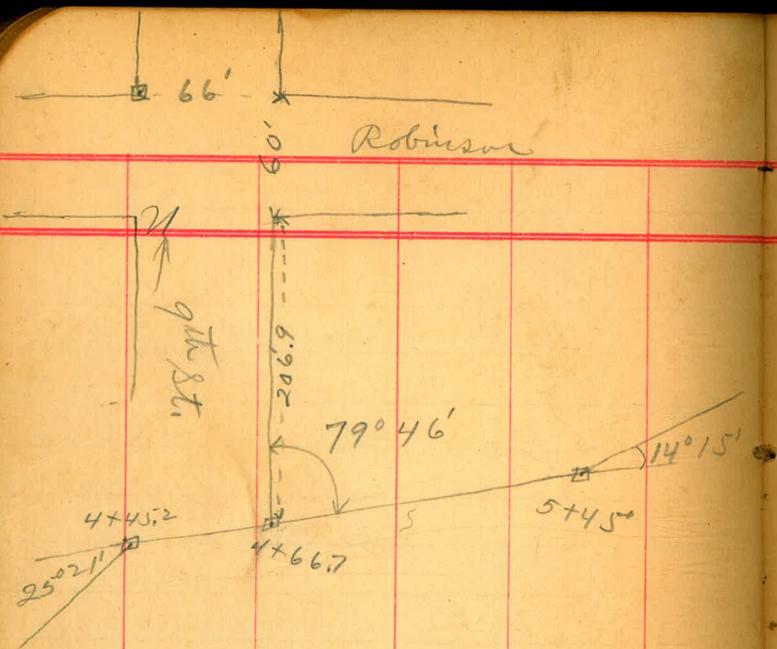
University ave

90° 04'

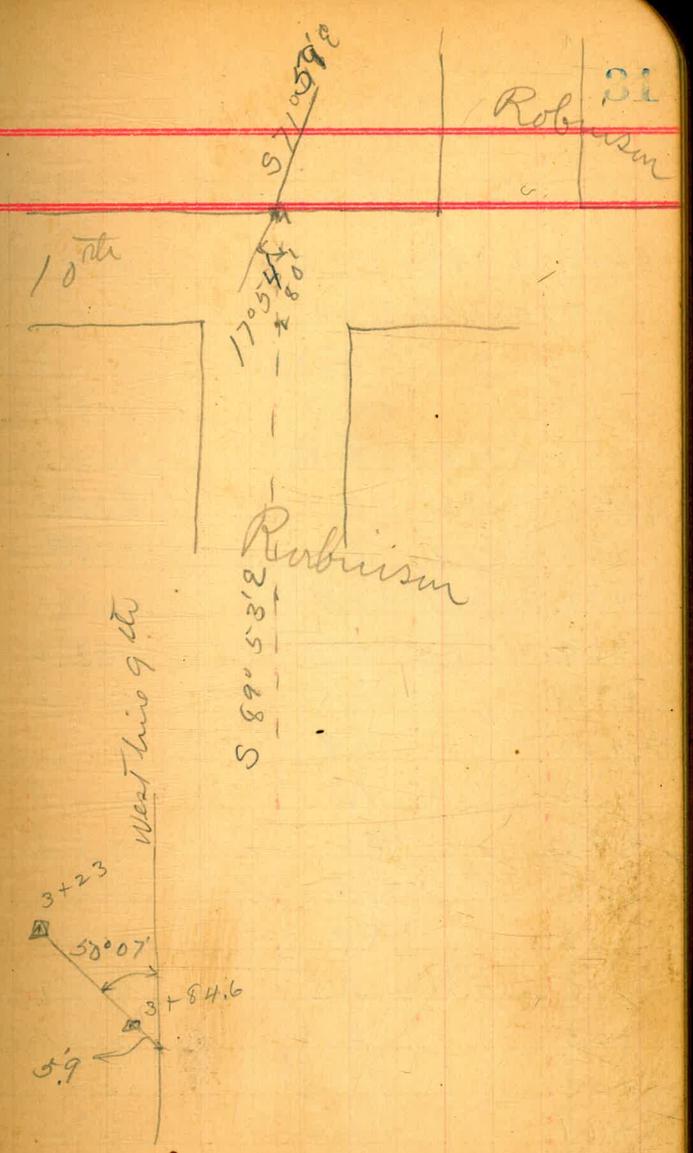
90° 100'

35'

0+00



7+37.8 17° 54' S 89° 53' E



Levels on Robinson Road.

32

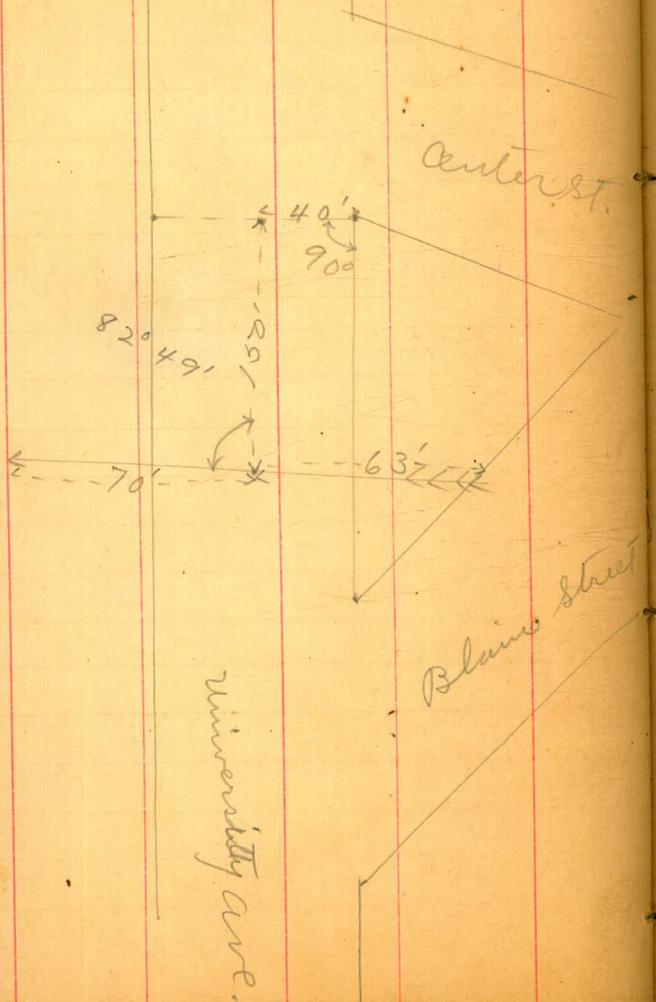
Sta.	H.T.	I.S.	B.S.	Elev.	
0+00	284.43	5.30		279.1	B.M. 272.50 8.57 281.07 <sup>v</sup>
0+11	281.07	2.6		278.5	T.P. 12.73 268.34
0+35		9.3		271.8 <sup>v</sup>	3.23
0+50		14.0		267.1	271.57 <sup>v</sup>
+62	271.57	8.8		262.8	B.M. 248.41
1+00	258.91	10.5		248.4	258.91 <sup>v</sup> 10.50
+28	245.91	6.0		239.9	bottom of canyon
+50	258.91	11.9		247.0	
+64		5.7		253.2	245.91 . 8.25 237.66
+77.4		1.1		257.8	
2+00		0.9		258.0	
+12		1.8		257.1	
+40.2		9.0		249.9	
+50		7.9		251.0	
+72		9.9		249.0	
3+00	245.91	1.5		244.4	
+23		6.2		239.7	
+50		13.5		232.4	
+61		17.2		228.7	
+84.6		13.3		232.6 <sup>v</sup>	bottom of canyon change of grade
4+00		11.1		234.8	

Sta.	H.I.	F.S.	B.S.	Elev.
4+45.2	245.91	4.7		241.2
5+00	258.91	9.3		249.6 <del>236.6</del>
+35		4.1		264.8
+45		3.3		265.6
6+00	271.57	10.0		261.6
+25	281.07	13.3		267.8
6+47		10.1		271.0
+82		2.6		278.5
7+00		1.3		279.8
+37.8		-0.8		281.9 ✓

Culvert on University ave.

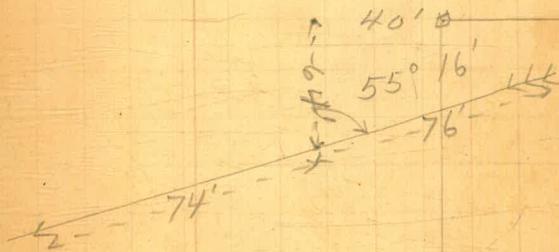
Schuld's  
Brooks  
Henderson

Jan 18 1906



University ave

Wisconsin



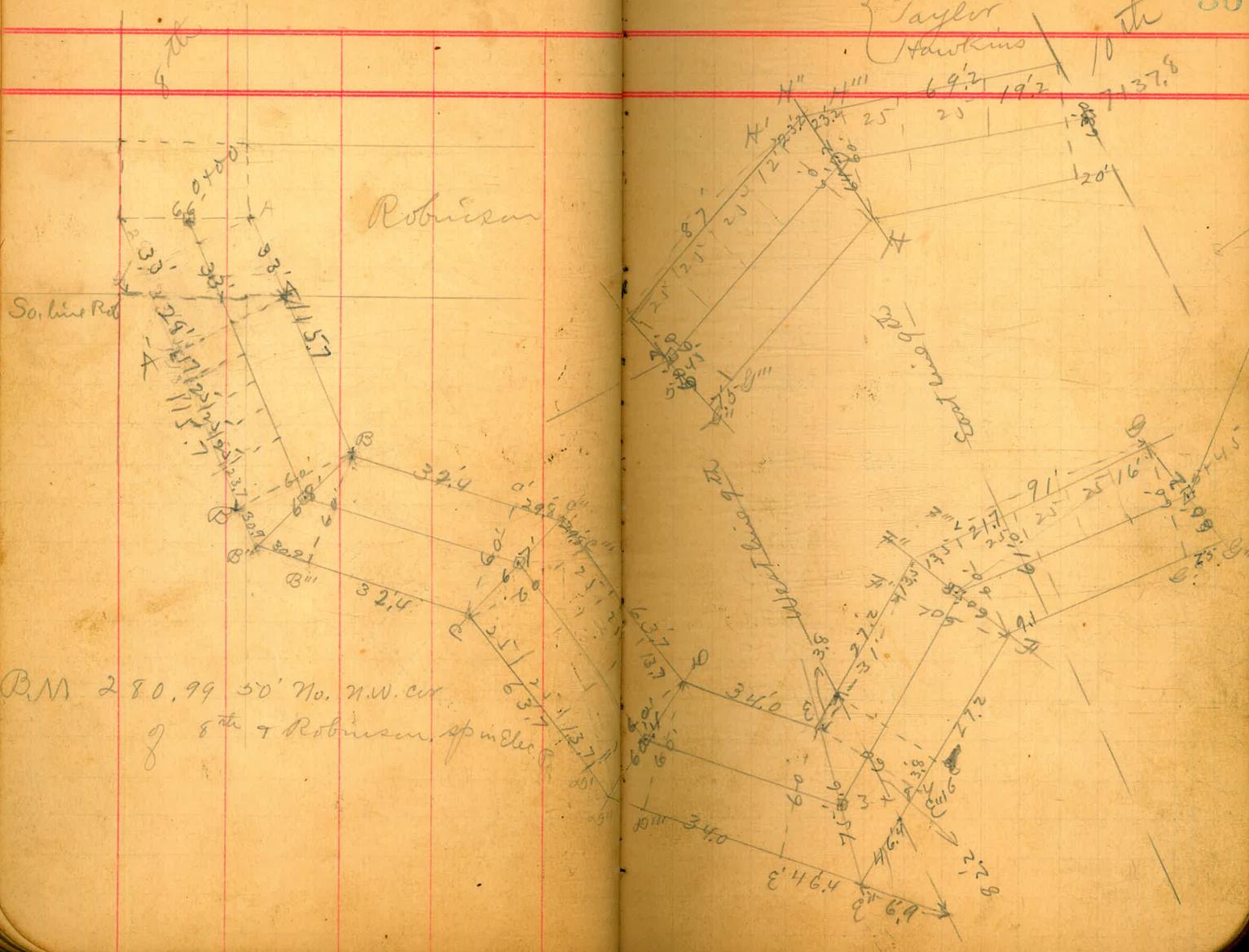
Boundary



Cross Section Robinson road 60' wide Feb. 10, 1906

Shields  
Taylor  
Hawkins  
10<sup>th</sup>

36

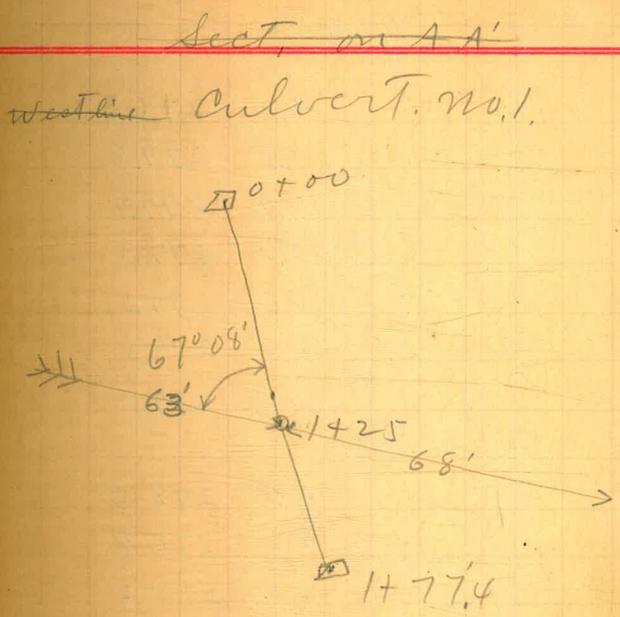


B.M. 280.99 50' No. N.W. cor  
of 8<sup>th</sup> & Robinson spindle

8th Street 66' wide

North line Robinson			
w. line	H.I. 285.39	7.3	278.1
		7.0	278.4
		6.7	278.7
c		6.4	279.0
		6.6	278.8
		6.4	279.0
E. line		6.6	278.8
Center Robinson			
E. line		6.8	279.1
		6.5	278.9
		6.7	278.7
c		6.4	279.0
		6.8	278.6
		7.6	277.8
w. line		8.4	277.0

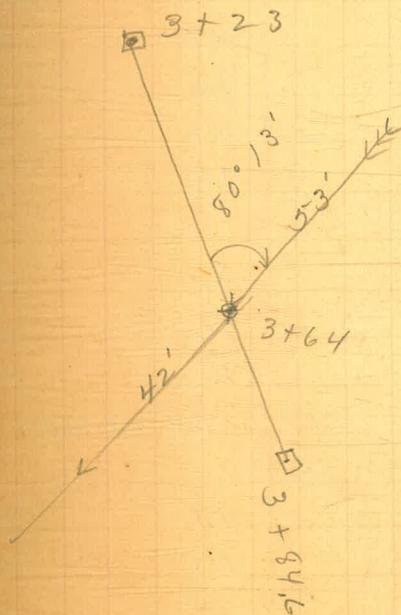
Feb. 12, 1906. Childs Evans Hawkins 37



## Sect on AA'

W. line		9.1	276.3
		7.6	277.8
		7.7	277.7
c		7.9	277.5
		6.3	279.1
		6.6	278.8
E. line		6.3	279.1
	10' So. AA'		
E. line		6.9	278.5
		8.6	276.8
		9.8	275.6
c		10.2	275.2
		11.3	274.1
		11.1	274.3
W. line		11.5	273.9

## Culvert No. 2.



15' So. AA'				
W. line		N.I.	13.9	271.5
		285.39	13.7	271.7
			13.5	271.9
c			10.8	274.6
			9.6	275.8
			9.2	276.2
E. line			9.4	276.0
25' So.				
E. line			9.5	275.9
			10.1	275.3
1/4			12.3	273.1
T.P.	1.42	274.19	12.62	272.77
25' So.				
c			3.6	270.6
W. line			5.8	268.4
cb			7.5	266.7
W. line			9.2	265.0

50' So.				
C			12.5	261.7
			11.0	263.2
			9.6	264.6
E. line			8.5	265.7
T.P.	0.73	262.68	12.24	261.95
50' So.				
1/4			2.2	260.5
cb			4.4	258.3
w. line			5.5	257.2
75' So.				
w. line			14.5	248.2
			12.6	250.1
			11.8	250.9
C			10.4	252.3
			9.2	253.5
			8.3	254.4
E. line			7.3	255.4
T.P.	1.66	257.72	12.62	250.06

		100' So.	
E. line		5.9	245.8
		6.1	245.6
		6.5	245.2
C		6.8	244.9
		8.5	243.2
		9.8	241.9
W. line		10.0	241.7
		125' So AA <sup>th</sup>	
W. line		2.1	249.6
		4.7	247.0
		6.9	244.8
C		8.7	243.0
		10.7	241.0
		12.3	239.4
E. line		13.2	238.5
		Sect. on BB'	
cb		3.6	249.1
E. line		5.4	246.3
		Sect. on BB''	
W. line		5.4	246.3
cb		2.1	249.6

## Sect. on BB'''

cb	1.9	249.8
n. line	5.4	246.3

## Sect. on cc'

cb	4.6	247.1
n. line	7.9	243.8

## Sect. on cc''

1/4	5.2	246.5
cb	8.1	243.6
n. line	13.0	238.7

## Sect. on cc'''

1/4	5.8	245.9
cb	9.7	242.0
n. line	13.3	238.4

## 25'E cc'''

1/4	7.3	244.4
cb	11.5	240.2
n. line	13.8	237.9

~~50'E cc'''~~

1/4  
E

		50' E	CC'''
1/4		5.5	246.2
C		8.2	243.5
1/4		11.4	240.3
Sect. in 20 20'			
cb		4.7	247.0
1/4		8.5	243.2
C		10.8	240.9
1/4		13.3	238.4
Sect. in 20 20''			
So. line		4.0	247.7
		7.2	244.5
		10.3	241.4
C		11.9	239.8
1/4		13.5	238.2
Sect. in 20 20'''			
So. line		7.6	244.1
		10.0	241.7
1/4		12.3	239.4

Sect. on BB''			
	H.I.		
So. line	274.19	6.8	267.4
		10.4	263.8
1/4		13.1	261.1
Sect. on BB'''			
So. line		5.6	268.6
		9.5	264.7
1/4		13.2	261.0
Sect. on CC'			
So. line		11.9	262.3
		13.5	260.7
J.P.	0.73	262.68	12.24 261.95
Sect. on BB'			
w. line		4.7	258.0
		6.3	256.4
		8.5	254.2
C		10.4	252.3
1/4		11.9	250.8
Sect. on BB''			
C		4.9	257.8
		8.5	254.2
cb.		12.4	250.3

Sect. on BB'''

So. line on sect CC'' & CC''' same as CC'

## Sect. on BB''

C	5.0	257.7
	8.4	254.3
cb,	12.6	250.1

## Sect. on CC'

So. 1/4	6.1	256.6
C	8.9	253.8
n 1/4	12.0	250.7

## Sect. on CC''

So. cb	4.4	258.3
	9.0	253.7
C	12.8	249.9

## Sect. on CC'''

So. cb	5.3	257.4
	8.9	253.8
C	11.9	250.8

## 25' E CC'''

So. hind	3.9	258.8
	7.2	255.5
	10.9	251.8
C	14.2	248.5

	50' E	CC''	
So. line		9.2	253.5
cb		13.4	249.3
	Sect. on 100'		
So. line		12.3	250.4
F.P.	1.66	251.72	12.62 250.06
J.P.	2.75	241.41	13.06 238.66
	50' E CC''		
cb		4.4	237.0
n. line		5.9	235.5
	Sect. on 100'		
cb		6.1	235.3
n. line		6.9	234.5
	Sect. on 100'		
cb		6.3	235.1
n. line		6.9	234.5
	Sect. on 100''		
c.		3.5	237.9
		4.8	236.6
		6.3	235.1
n. line		6.9	234.5

Sect. on EE'

So. line	13.5	227.9
	13.1	228.3
	13.2	228.2
C	12.9	229.5
	11.9	229.5
	10.2	231.2
N. line	9.9	231.5

Sect. on EE''

N. line	9.9	231.5
	12.2	229.2
	8.5	232.9
C	8.7	232.7
	9.1	232.3
	10.1	231.3
So. line	10.5	230.9

Sect. on EE'''

1/4	4.4	237.0
C	5.5	235.9
1/4	7.0	234.4
1/4 + 2'	12.1	229.3
cb	10.2	231.2
N. line	9.9	231.5

	Sect. on FF'		
1/4		4.7	236.7
		7.5	233.9
Mine		6.1	235.3
	Sect. on FF''		
cb		4.3	237.1
n.lins		3.4	238.0

Sect. on EE'''			
So. line	H.I. 257.72	12.0	239.7
cb		13.6	238.1
Sect. on FF'			
So. line		3.0	248.7
		5.1	246.6
		7.9	243.9
C		11.0	240.7
Sect. on FF''			
So. line		3.0	248.7
		4.3	247.4
		7.3	244.4
C		10.5	241.2
1/4		14.3	237.4
Sect. on FF'''			
So. line		3.0	248.7
		4.1	247.6
		6.1	245.6
C		9.5	242.2
1/4		13.5	238.2
1/4 + 5'		14.1	237.6
cb		12.6	239.1
N. line		10.4	241.3

25' E 77"			
N. line		6.3	245.4
		8.9	242.8
cb + 5'		11.0	240.7
1/4		10.2	241.5
C		6.1	245.6
1/4		1.1	250.6
50' E 77"			
C		2.1	249.6
		6.8	244.9
1/4 + 6'		7.9	243.8
cb		6.0	245.7
M. line		3.4	248.3
75' E 77"			
N. line		1.0	250.7
		4.4	247.3
1/4		3.4	248.3
J.P.	13.10	263.29	1.63
			250.19
25' E 77"			
S. line		5.6	257.7
cb		9.3	254.0

~~50' E 77"~~

50' E FFA'''		
So. line	-1.5	264.8
cb	4.0	259.3
1/4	8.7	254.6

75' E FF'''		
So. cb	1.0	262.3
1/4	5.3	258.0
C	9.9	253.4

Section on Gb'		
cb	-0.1	263.4
	3.7	259.6
C	8.2	255.1
	12.4	250.9
	14.6	248.7
N. line	10.3	253.0

Sect. on Gb''		
N. line	10.3	253.0
	14.5	248.8
	12.4	250.9
C	7.7	255.6
1/4	3.8	259.5

Sect. on G<sub>1</sub>'''

1/4		3.8	259.5
C		7.7	255.6
		11.9	257.4
		14.5	248.8
n. line		10.3	253.0
	25'E G <sub>1</sub> '''		
n. line		6.1	257.2
		9.4	253.9
cb + 5'		10.5	252.9
1/4		8.8	254.5
C		5.4	257.9
1/4		1.7	261.6
	50'E G <sub>1</sub> '''		
C		1.7	261.6
		5.5	257.8
1/4 + 4'		6.6	256.7
cb		5.3	258.0
n. line		2.2	261.1
	75'E G <sub>1</sub> '''		
cb		2.1	261.2
J.P.	12.99 275.69	0.59	262.70
	75'E FF'''		
sohil		9.2	266.5

		Sect. on 94'	
So. line		6.8	268.9
		Sect. on 94"	
So. line		6.6	269.1
cb		10.7	265.0
		Sect. on 94'''	
So. line		6.5	269.2
cb		11.2	264.5
		25'E 94'''	
So. line		4.6	271.1
cb		9.5	266.2
		50'E 94'''	
So. line		1.4	274.3
cb		6.0	269.7
1/4		10.0	265.7
		75'E 94'''	
So. line			
cb		0.2	275.5
1/4		4.6	271.1
c		8.1	267.6
1/4		12.0	263.7
N. line		10.9	264.8

		Sect. on HH'		
n. line		9.0		266.7
		11.8		263.9
		9.9		265.8
c		6.5		269.2
1/4		3.1		272.6
		Sect. on HH''		<del>270</del>
1/4		3.7		272.0
c		4.7		271.0
		3.5		272.2
		2.7		273.0
n. line		2.0		273.7
J.P.	10.54	284.64	1.59	274.10
		75' E of J.P.		
So. line		7.2		277.4
		Sect. on HH'		
So. line		7.9		276.7
cb		8.9		275.7
		Sect on HH''		
So. line		7.9		276.7
cb		8.8		275.8

## Sect on N.H. III

Solins		7.9	276.7
		8.8	275.8
		11.2	273.4
C		11.2	273.4
		8.8	275.8
		5.9	278.7
N. line		4.8	279.8
	25'E		N.H. III
N. line		5.3	279.3
		5.6	279.0
		5.6	279.0
C		5.9	278.7
		6.6	278.0
		7.1	277.5
Solins		5.8	278.8

~~50'E~~

	50' E	HN III	
Solius		5.6	279.0
		5.1	279.5
		5.1	279.5
c		4.8	279.8
		4.8	279.8
		3.9	280.7
n. line		3.9	280.7
	sect. on	II'	
n. line		4.1	280.5
		3.9	280.7
		3.3	281.3
c		3.0	281.6
		3.9	280.7
		4.8	279.8
Solius		5.4	279.2

POSTED

57

West line 10 <sup>th</sup>	
Solin	5.6 279.0
	3.8 280.8
	3.2 281.4
c	2.7 281.9
	2.9 281.7
	3.7 280.9
N. line	4.1 280.5

Levels over Sidewalks of  
 University Boulevard  $\frac{7}{16}$  } <sup>S. Davis</sup>  
<sub>Edwards</sub>  
<sub>Thomas</sub>

58

POSTED

West Sidewalk

	8.25	310.21		301.96
0.0 = N.W. Cor Univ. Ave & Univ Blvd	8.5		3017	301.9
+50		7.5	302.7	302.9
1		7.0	303.2	303.4
+50		6.5	303.7	304.0
2		6.0	304.2	304.6
2 + 35 S.L. Blaine		5.4	304.8	305.0
0 = N.L. "		4.7	305.5	305.8
+50		4.4	305.6	306.1
1		3.8	306.4	306.6
+50		3.1	307.1	307.1
2		2.7	307.5	307.8
+50		2.6	307.6	307.9
3		1.9	308.3	308.0
+50		1.4	308.8	309.0
4		0.8	309.4	309.4
T.P.	12.23	321.28	1.16	309.05
+50			11.4	310.0
5			10.9	310.4
+50			10.0	311.3
6 = S.L. Lincoln			9.3	312.0

Col line No. Side Lincoln	7.6	314.8	313.7
0.0 = No. Line Lincoln	6.1	315.8	315.2
+50	4.0	317.5	317.3
1	1.8	319.8	319.5
T.P.	12.95	323.81	0.42
+50			12.0
2			9.8
+50			7.7
3			5.5
+50			2.8
T.P.	12.77	346.39	0.19
4			12.5
+50			10.2
5			7.6
+50			5.6
6 = S.L. Campus			2.6
0 = N.L. "			2.0
+50			1.8
1			2.1
+50			2.1
2			2.1

West Sidewalk

		346.39		
2	+50		2.1	344.6 344.3
3			2.2	344.6 344.2
T.P.	4.19	349.03	1.55	344.84
	+50		5.0	344.5 344.0
4			4.8	344.5 344.2
	+50		4.9	344.5 344.1
5			5.0	344.2 344.0
	+50		5.0	344.2 344.0
6			5.1	344.0 343.9
	+50		5.0	344.1 344.0
7			4.9	344.2 344.1
	+50		4.6	344.6 344.4
8			4.6	344.8 344.6
	+50		4.8	344.2 344.2
9			5.4	344.0 343.6
	+50		5.8	343.2
			6.1	342.9
			9.00	340.03 (B.M. 340.08)

19 = Intersection of W. Line Univ Blvd & No. Line E. Cajon Ave

East Sidewalk

		349.08 N.T.		
				Intersection of E. Line Univ Blvd. 0.00 = with W. Line Park Blvd.
			5.7	343.4
	+50		5.5	343.6
1			5.7	343.7
	+50		5.5	343.6
2			5.3	343.8
	+50		4.7	344.4
3			4.5	343.6
	+50		4.8	344.3
4			4.7	344.4
	+50		4.8	344.3
5			4.8	344.3
	+50		4.8	344.3
T.P.	2.53	347.61	4.00	345.68
6			3.3	344.3
	+30 = No line Campus		3.1	344.5
	00 = S.L. Campus		3.3	344.3
	+50		4.6	343.0
1			5.8	341.8
	+50		7.0	340.6
2			9.1	338.5
	+50		12.0	335.6
T.P.	0.48	335.20	12.89	334.72

		East Sidewalk		
		<u>335.20</u>		
3+00			1.6	333.6
+50			4.5	330.1
4			8.0	327.2
+50			10.8	324.4
5			13.0	322.2
T.P.	0.51	323.04	12.67	322.53
+50			3.3	319.7
6=N.L. Lincoln			5.3	319.9
+14-Nick "			6.4	316.6
0.0=S.L. Lincoln			9.2	313.8
+50			11.3	311.7
1			12.2	310.6
+50			12.9	310.1
T.P.	1.64	312.09	12.59	310.45
2			2.4	309.7
+50			3.2	308.9
3			3.8	308.3
+50			4.1	308.0
4			4.6	307.5
+50			5.1	307.0

		East Sidewalk	
5+00		5.3	306.8
+50		6.0	306.1
6=N. line Blaine		6.0	306.1
0.0=S. line "		7.2	304.9
+50		7.9	304.2
1		8.3	303.8
+50		8.5	303.6
2		9.2	302.9
+50		9.4	302.7
+65		9.9	302.2
		10.08	302.01
			301.96

Elevations of water pipe on  
University, & 8<sup>th</sup> St.

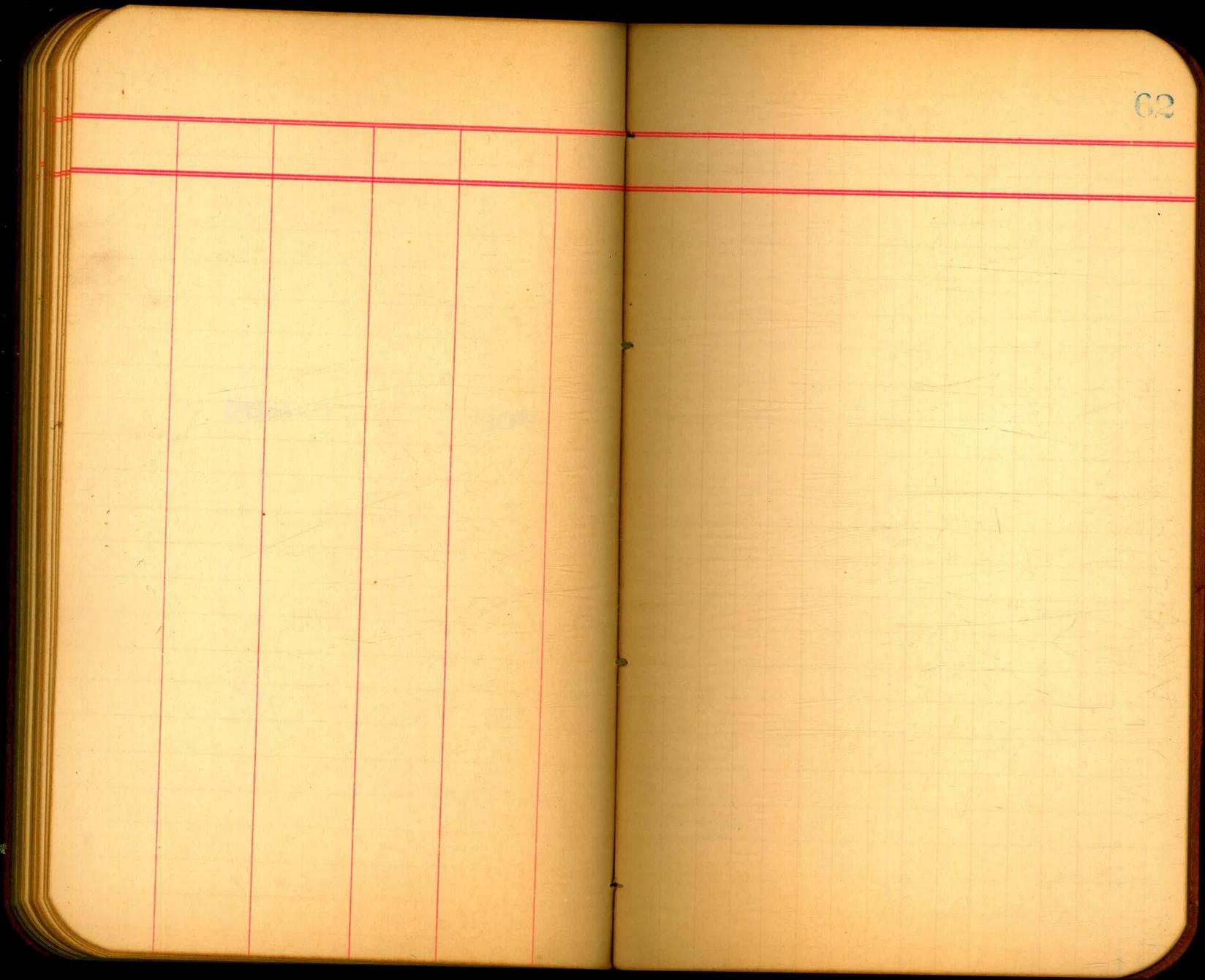
B.P.	10 <sup>th</sup> University			283.10
	465	287.75		
T.P.	4.51	288.87	339	284.36
			6.90	281.97
			6.77	282.10

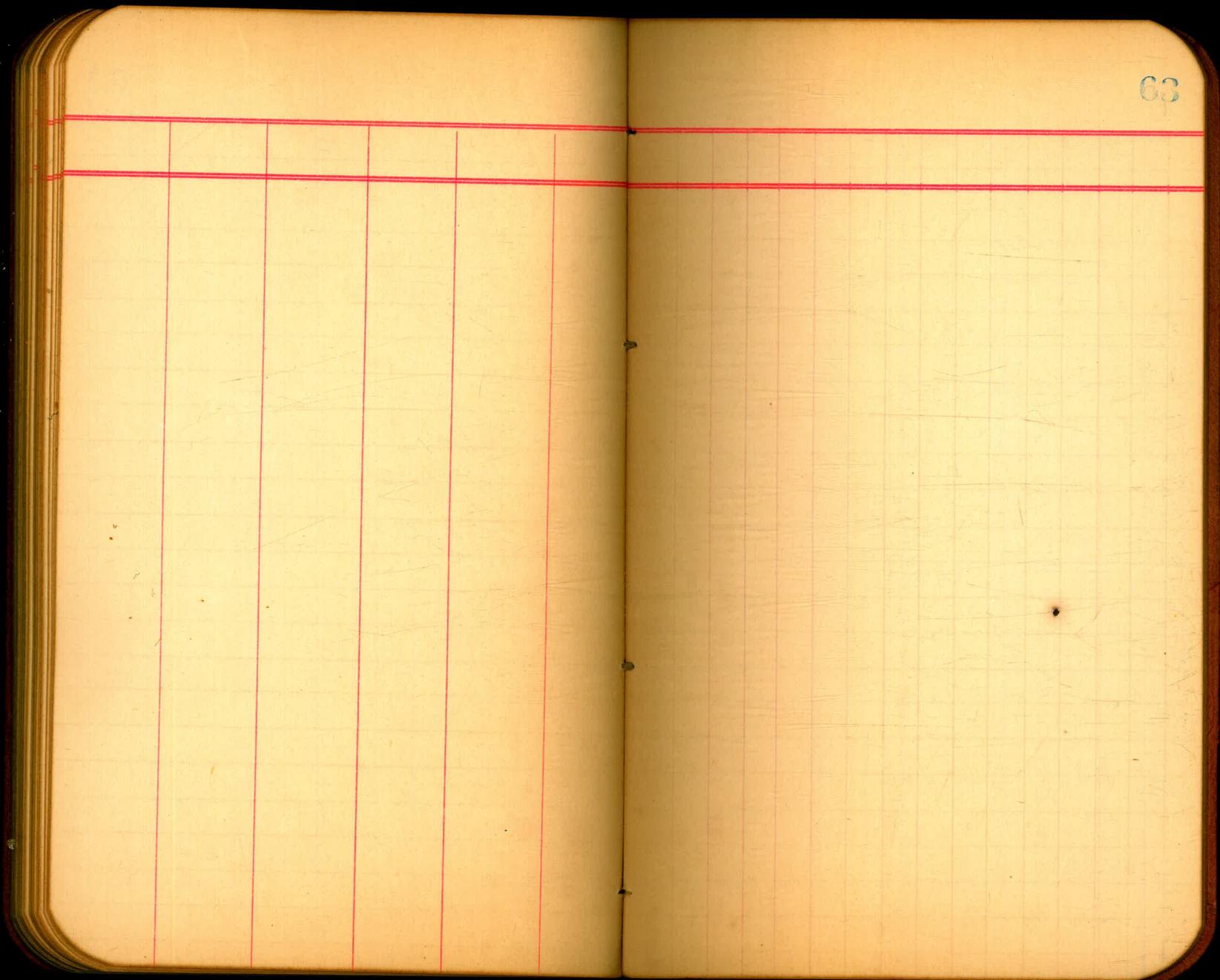
766 of pipe E. side 8<sup>th</sup> St.  
 " " W. " 8<sup>th</sup> "

**POSTED**

**POSTED**

62



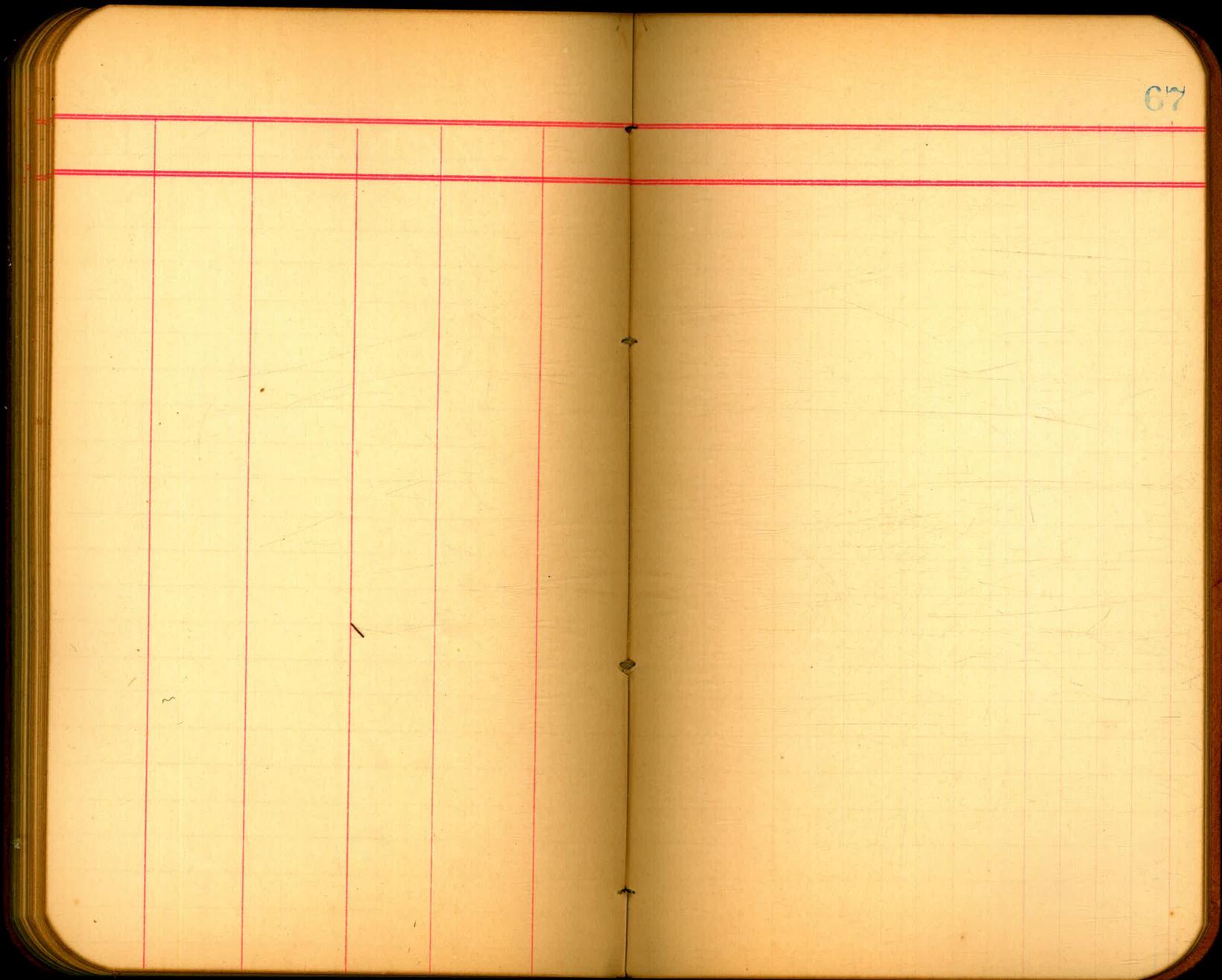




The image shows an open notebook with two blank, cream-colored pages. The pages are ruled with light blue horizontal lines. The left page has a vertical red margin line on the left side, and the right page has a vertical red margin line on the right side. The number '65' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are slightly aged and show some minor blemishes.

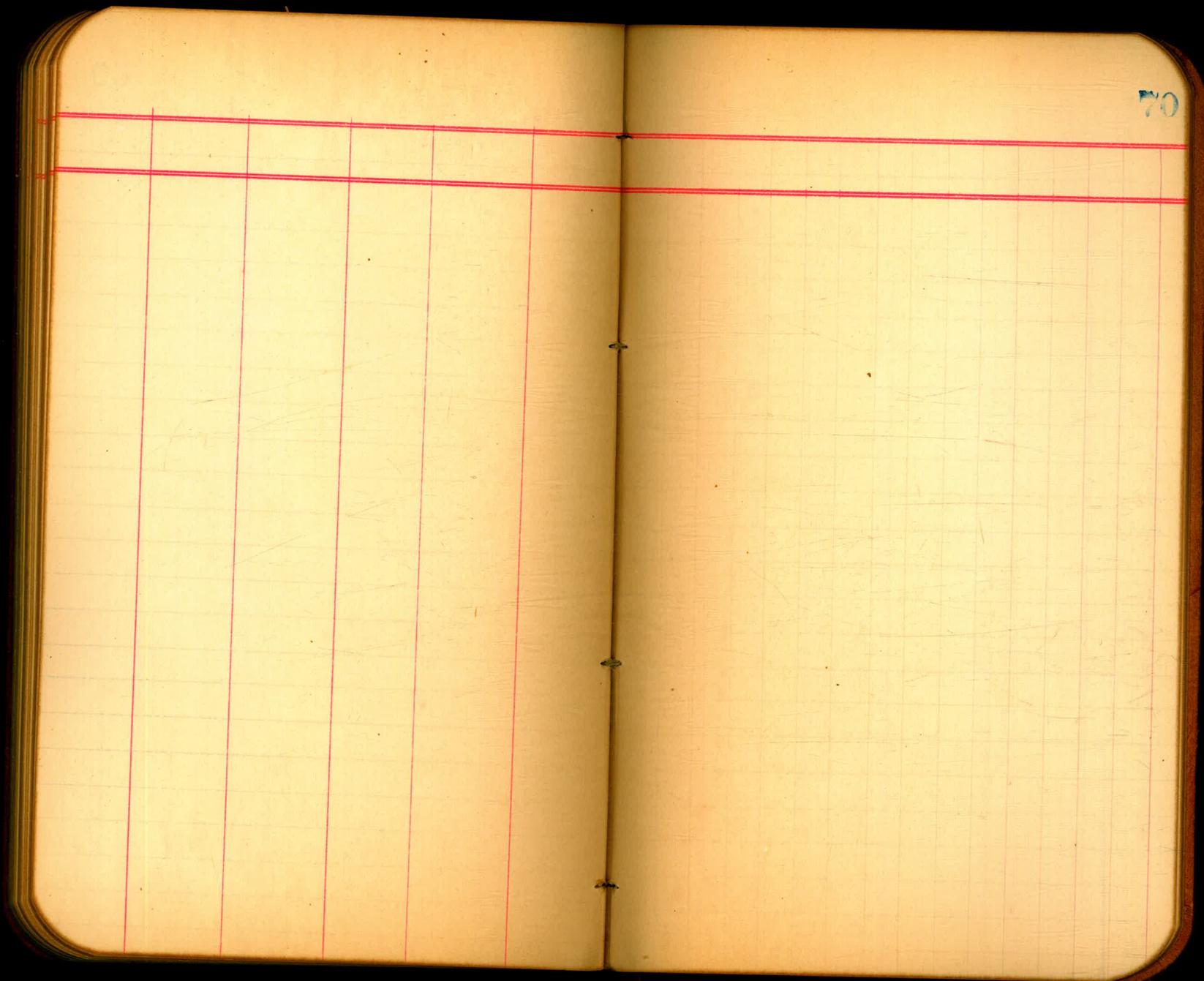
The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these, there are five vertical lines that divide the page into six columns of varying widths. The right page is a grid page with a uniform grid of red lines. The number '66' is printed in the top right corner of the right page. The notebook has a dark cover, and the pages are a light cream color.

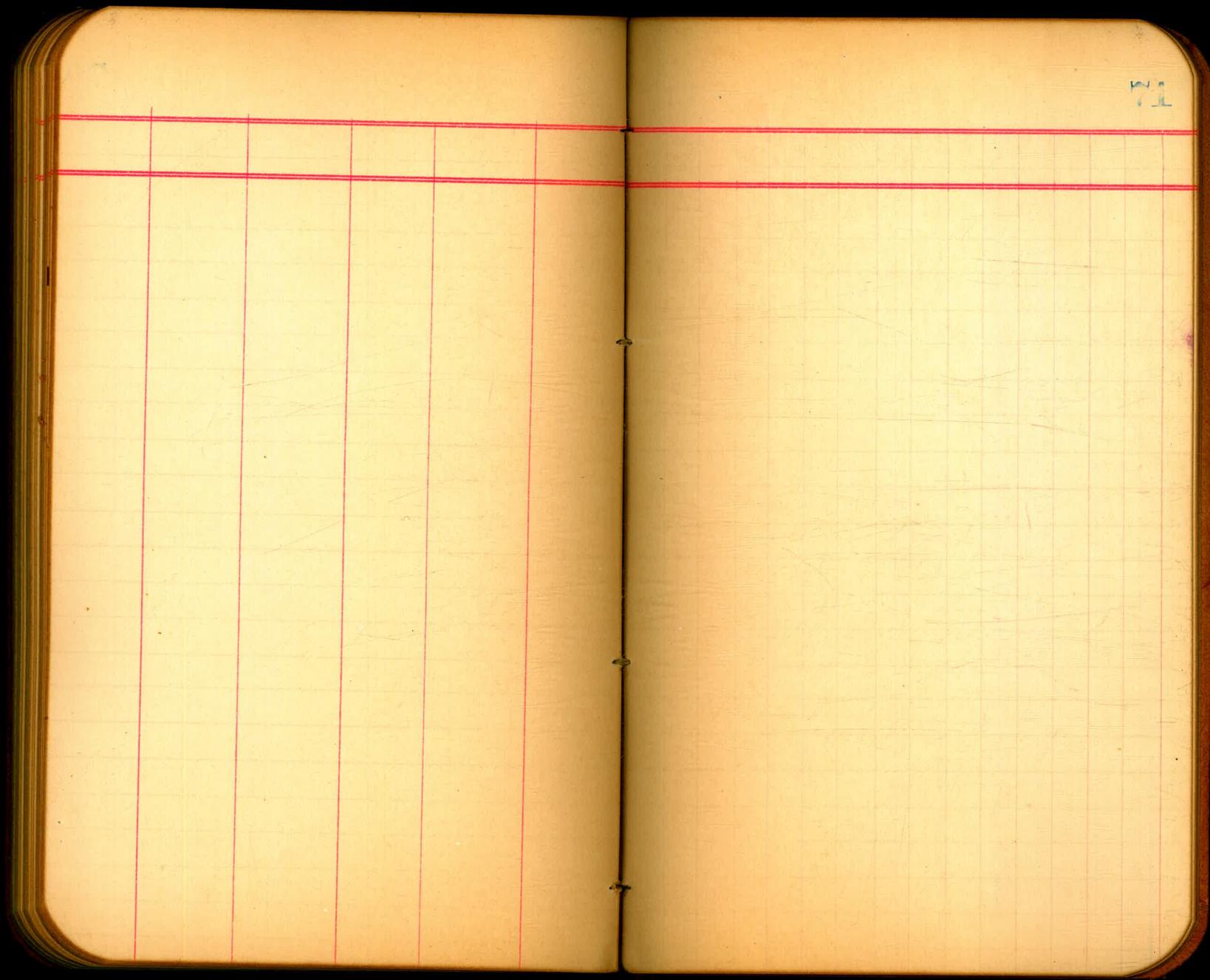
67



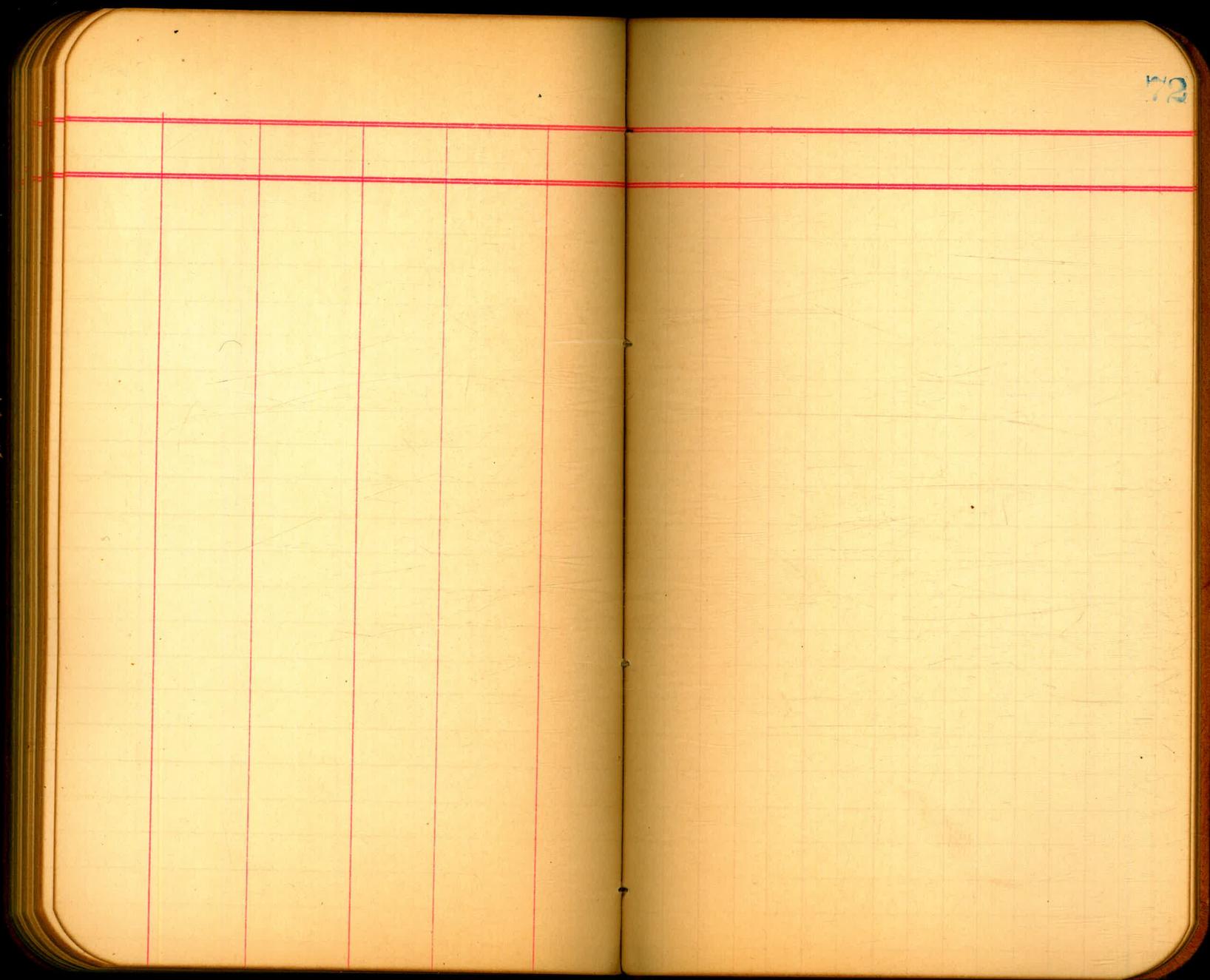


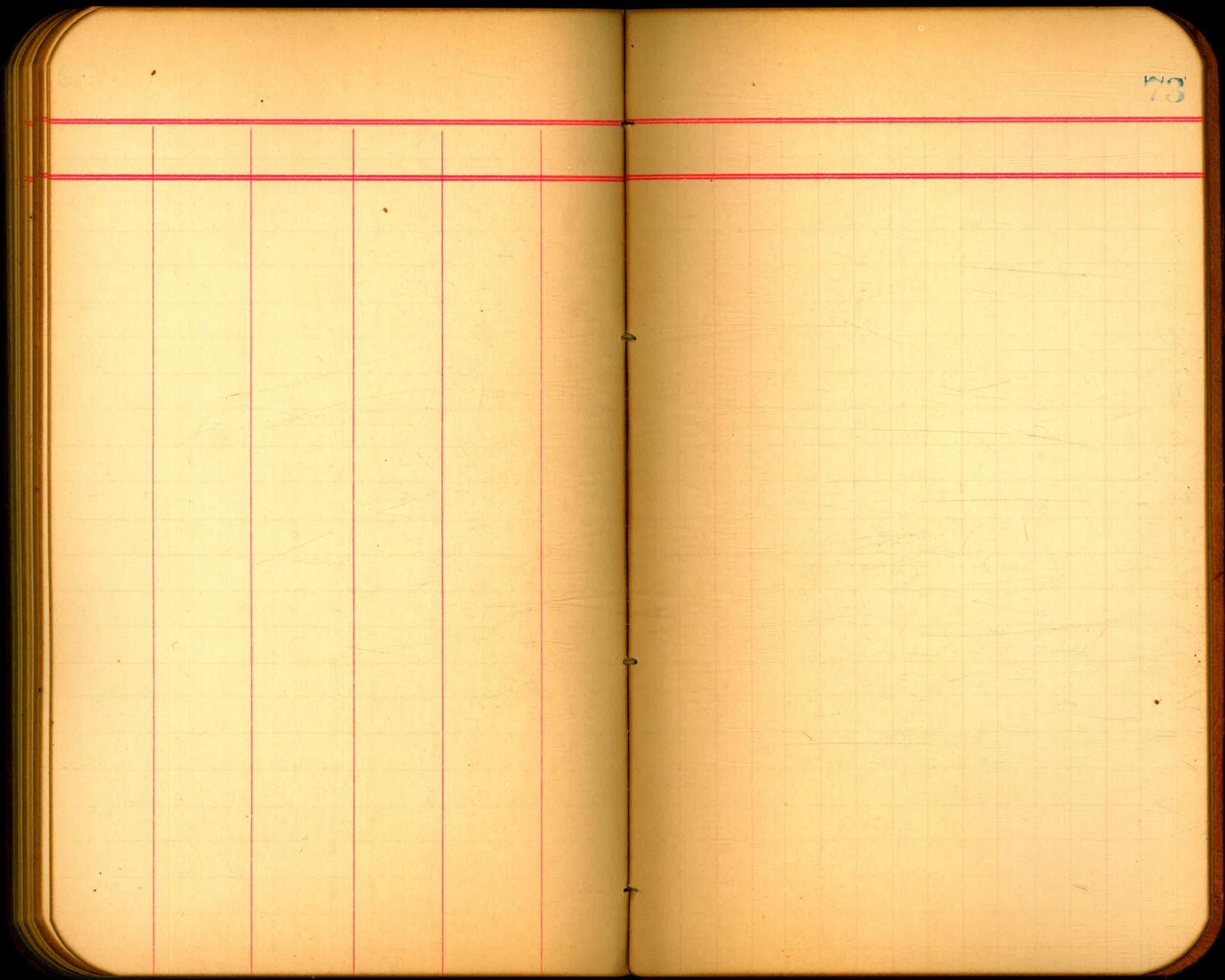




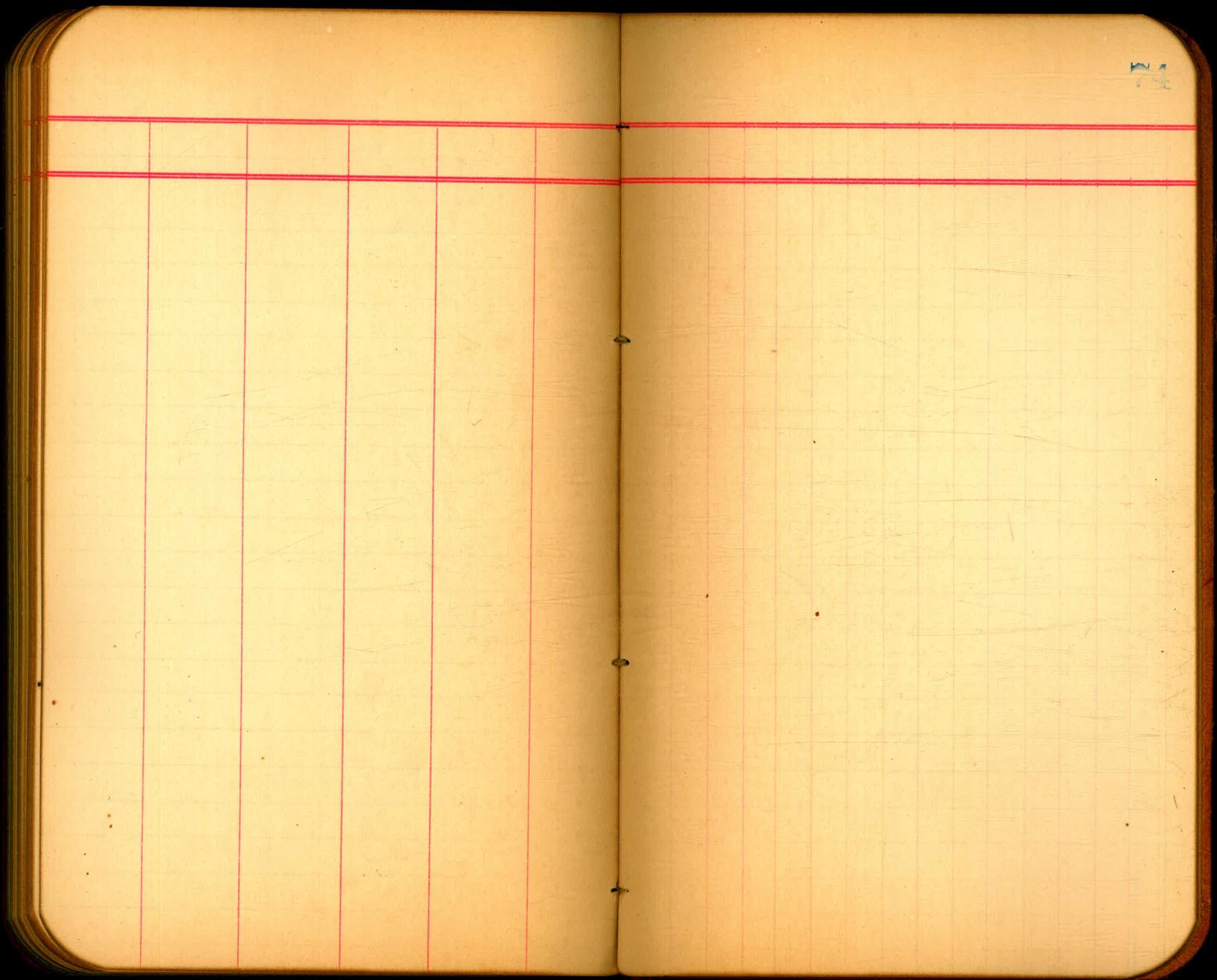


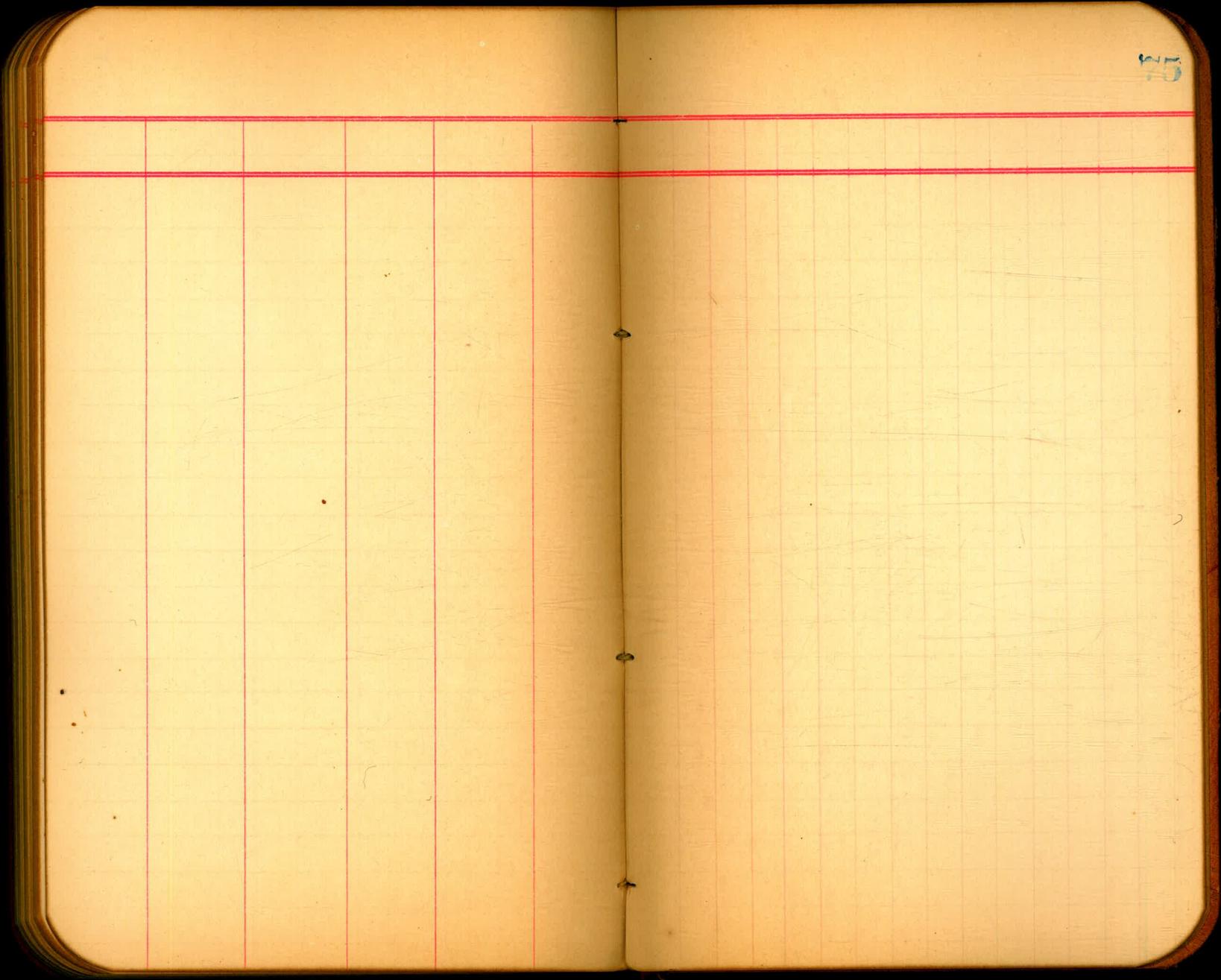
71

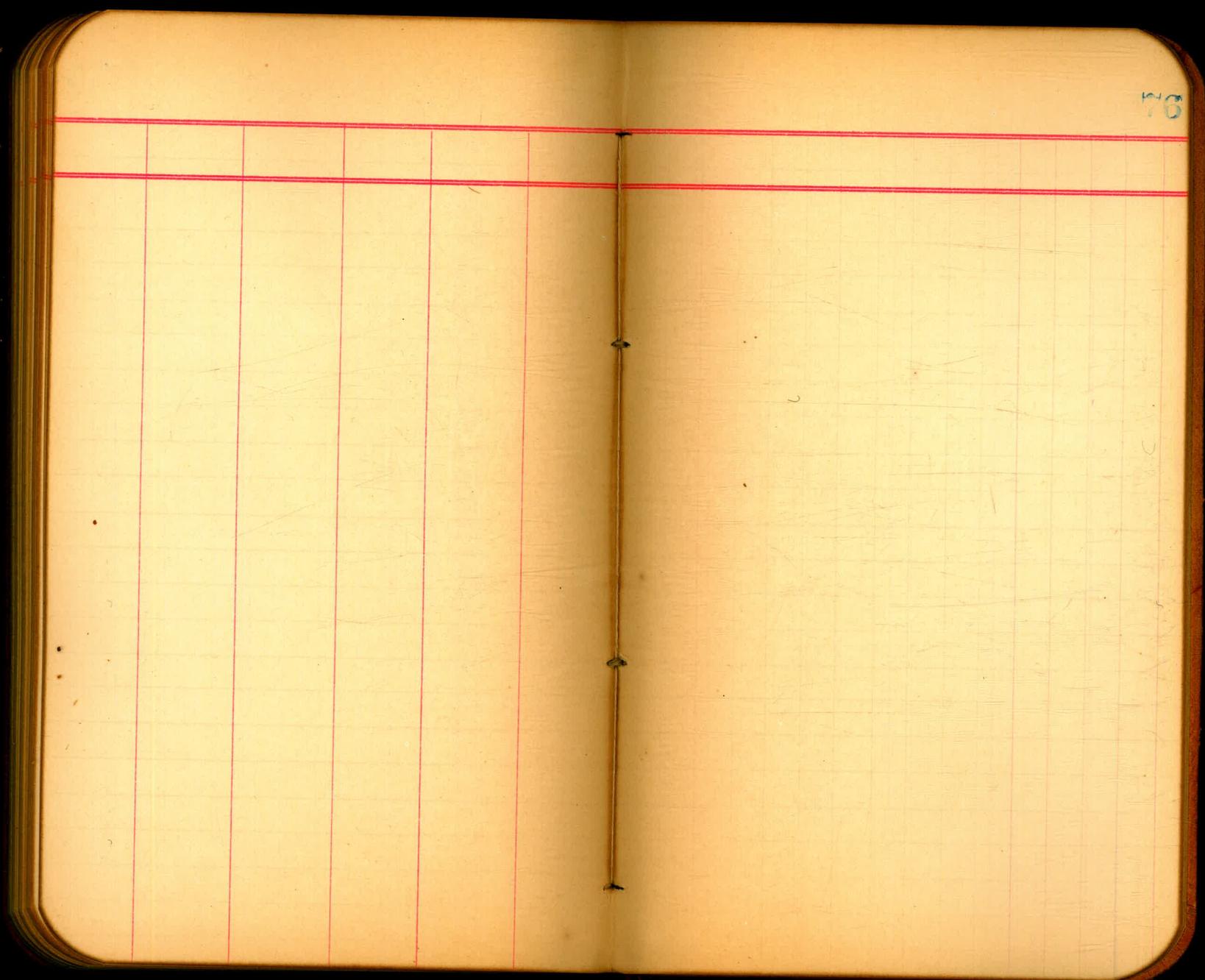




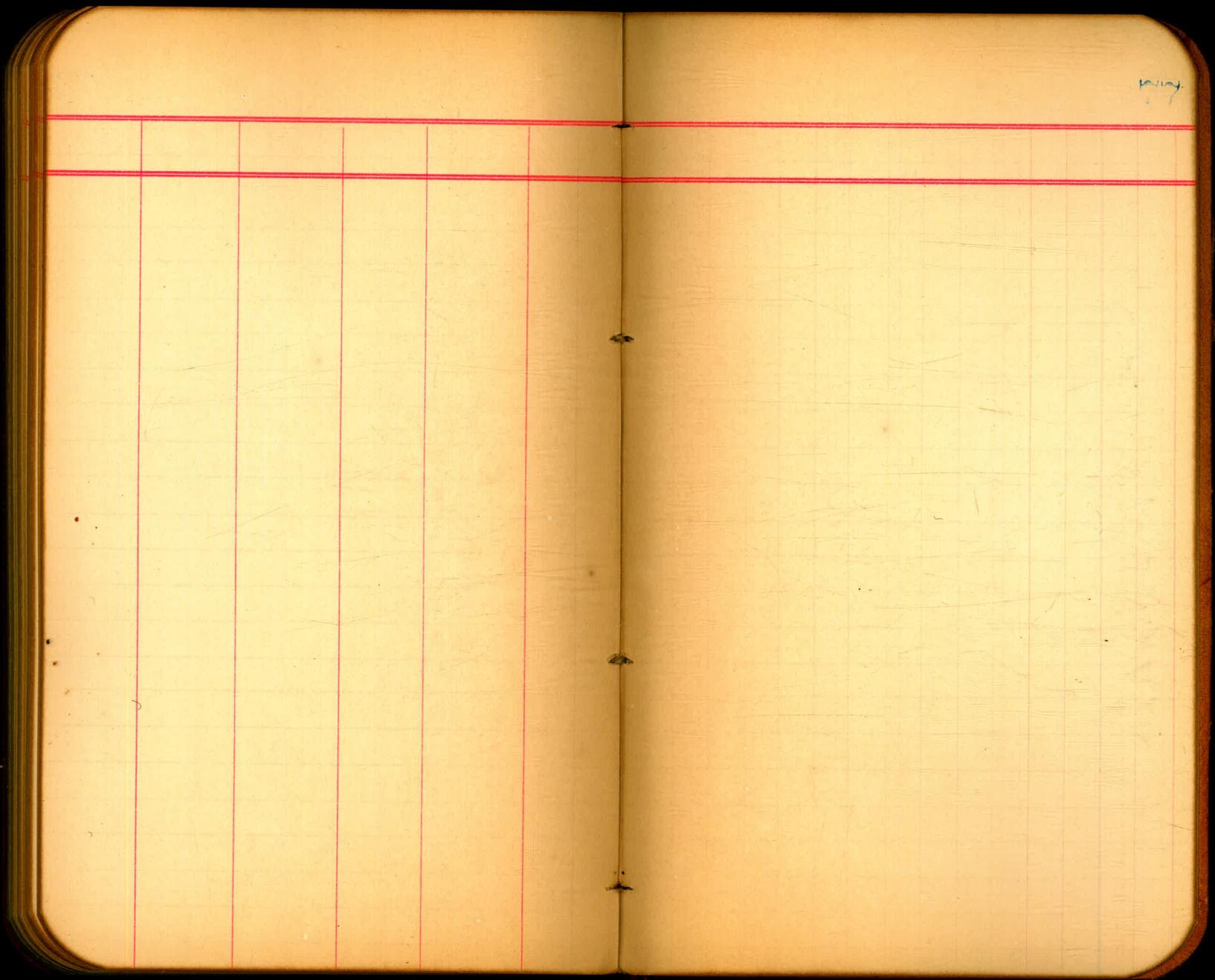
52



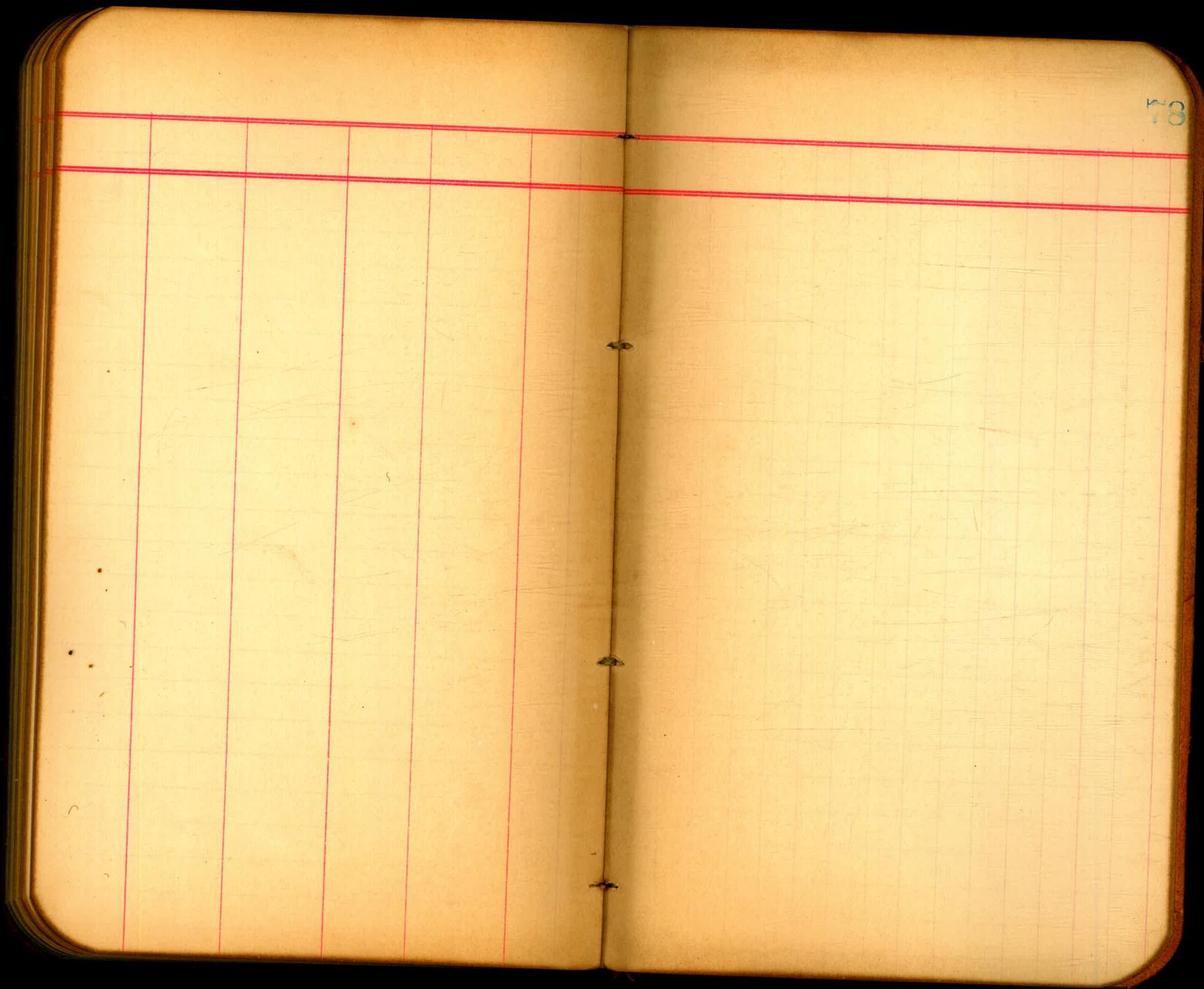


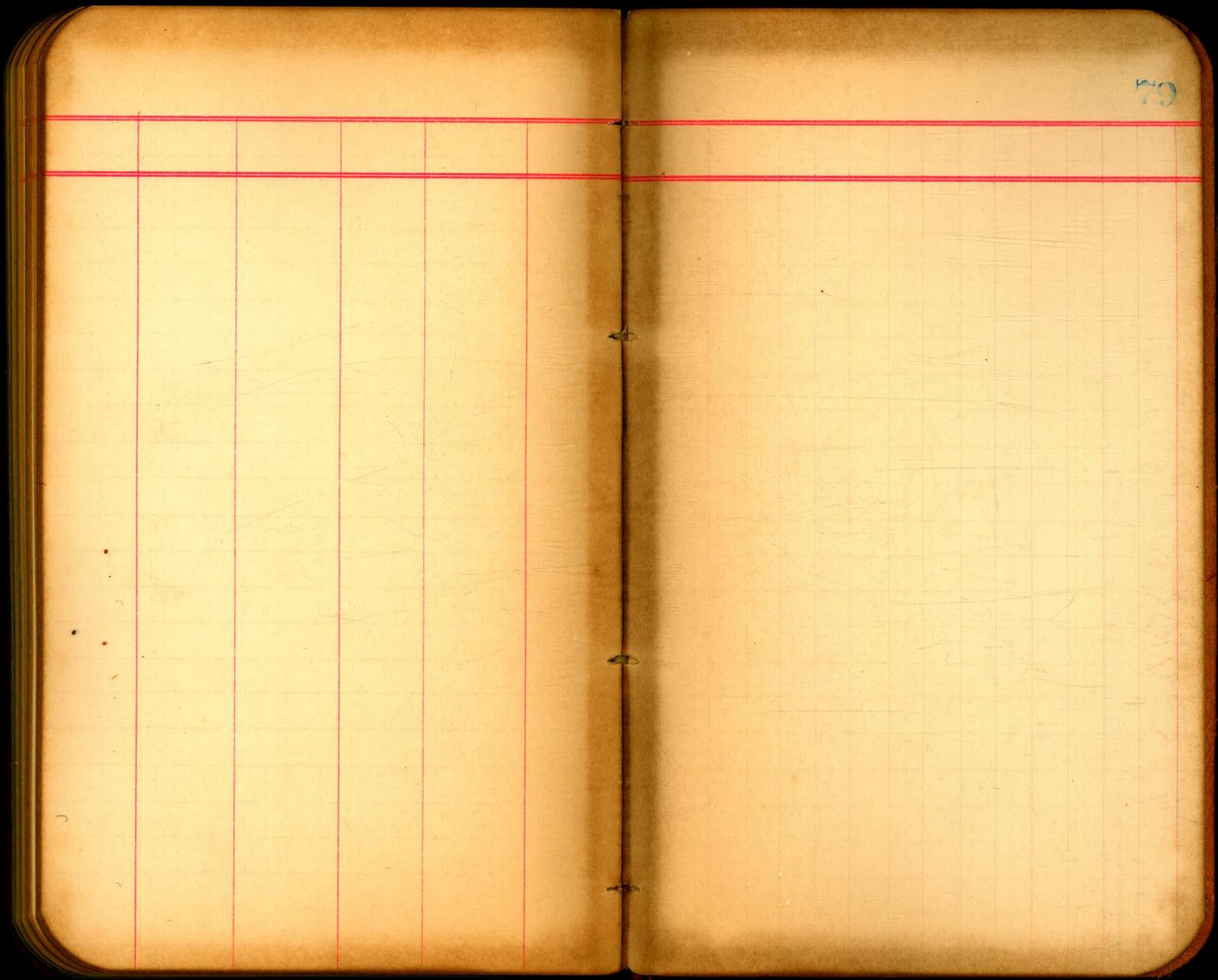


76



1/1/19





283.10  
4.65  
287.75 H.L.  
3.39  
284.36

34+98

225

$\left. \begin{matrix} N \\ 258 \\ 0288 \end{matrix} \right\} + 28'$   
 $\left. \begin{matrix} V \\ 5^{\circ}20' \\ 0 \end{matrix} \right\}$

2730  
N 1000 E  
9815  
97.16  
18  
582.95 W

89 60  
42  
6 01 88 18'

68 11  
17.75  
53540 W  
55  
90401305

89 60

N 88 20 E 25  
76 10  
16530  
15  
17.90  
33643 E

79 06

46 93

A 5245 E  
8219  
N 0 34 W

10 51189 60

35 3938 72

89 60

51 38

89 60 40

11.05

35 3938 72

Return to City Engineers Office  
City Hall, San Diego, Cal.

54 26 34

452  
4+66.7

35 34

206.9

### TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ 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	44.33	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	88.08	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.36	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							

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

34+98

225

$\left. \begin{matrix} N \\ 258 \\ 0288 \end{matrix} \right\} + 28'$   
 $\left. \begin{matrix} V \\ 5'20'' \\ 0 \end{matrix} \right\}$

89 60  
 $\frac{1}{42}$   
6 01 88 18'

89 60

79 06

10 33 V

46 93

10 51 79 60

35 39 38 72

89 60 40

35 39 38 72

54 26 34

35 34

206.9

27 30  
N 1 00 E  
95 15  
97.16  
18  
5 82.95 W  
68 11  
17.75  
53540 W  
55  
90401305  
N 88 20 E 25  
76 10  
165 30  
25  
17 30  
336 13 E  
N 52 45 E  
73 19

89 60  
11.05  
4+66.7

Return to City Engineers Office  
City Hall, San Diego, Cal.

### TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ 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	28.52	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	44.33	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	88.08	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.36	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							

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