

1081

High Tide Line Pier Int.

DIETZGEN
TRADE MARK

ENGINEERS'
FIELD BOOK

No. 403

1081

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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

1964	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
1	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
2	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
3	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
4	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
5	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
6	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
7	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
8	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
10	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
11	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
12	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
13	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
14	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
15	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
16	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
17	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
18	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
19	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
20	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
21	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
22	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
23	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
24	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
25	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
26	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
27	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
28	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
29	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
30	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
31	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
32	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
33	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
34	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
35	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
36	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
37	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
38	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
39	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
40	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
41	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

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

Copyright, 1914, by Eugene Dietzgen Co.

4 Corners. Lot 26-27 Block 1 150 ft from Cor N.E.
Fairmount Annex Tax. Colonial + Orange
on W.S. Colonial
Mrs Millinger

16 68 12.9 to end 32.51 12.2 to 16.6
32.25 39.25 Polym
32.25
17 48.68

Oliver Winston
North Island
Machines

17 85.30
160 2.4
17 45.60
66.75
160 2.4

ADOLF FRESE OPTICAL CO.
Engineering and Drafting Supplies
Scientific Instruments and Repairing
546 SOUTH SPRING STREET
LOS ANGELES, CAL.

Charley Stedman

U.S. Geological Survey

Department of Interior

Water Supply Paper

490

Plate VI

Earl
Williams
+ Moore
Keefer

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to National City Line using Base Line
of Schuyler Mean High Tide Line as base. 1-

Arrow Packing Co.	12.
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Benson Lumber Co.	48-49
Berry A.W. (Kyles)	27
California Iron Works	29
Campbell & Sons	28
Chesapeake Fish Co. (Federal Fisheries)	50
Economy Waste Paper Co.	28
Federal Fisheries	50
George M. M.	8
Goularte M.S. Permit (Hadland & Sons)	16.
Government U.S.	
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Holders K&O.	6
Incenerator	28
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McCormick Lumber Co.	54
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Normandy Sea Food Co. (Jose Azevedo (see Page 20-23 Booth 1050)	53
Naval Reserve	18
Neptune Sea Food Co.	13
Neill W.M.	16
Pompeian Sea Food Co.	13
Oborn Fish Co. { American Union Fish Co.	19
{ Salazar Fish Co.	
Oborn Fish Co. { Union Fish Co.	19
{ National Fish Co.	
{ American Fisheries Co.	
{ Chesapeake Fish Co.	
{ Coronado Fish Co.	
Pompeian Sea Food Co.	13
Point Loma Ferry Co.	21
Prioste M.F.	8
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Robbins A.R.	

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West Coast Crab Lobster Co Yumi Cardarelli 22

Y.W.C.A. on Rowing Club Pier 26

Zlac Rowing Club. 21

563+93.0

Joe Montiero

564+19.34

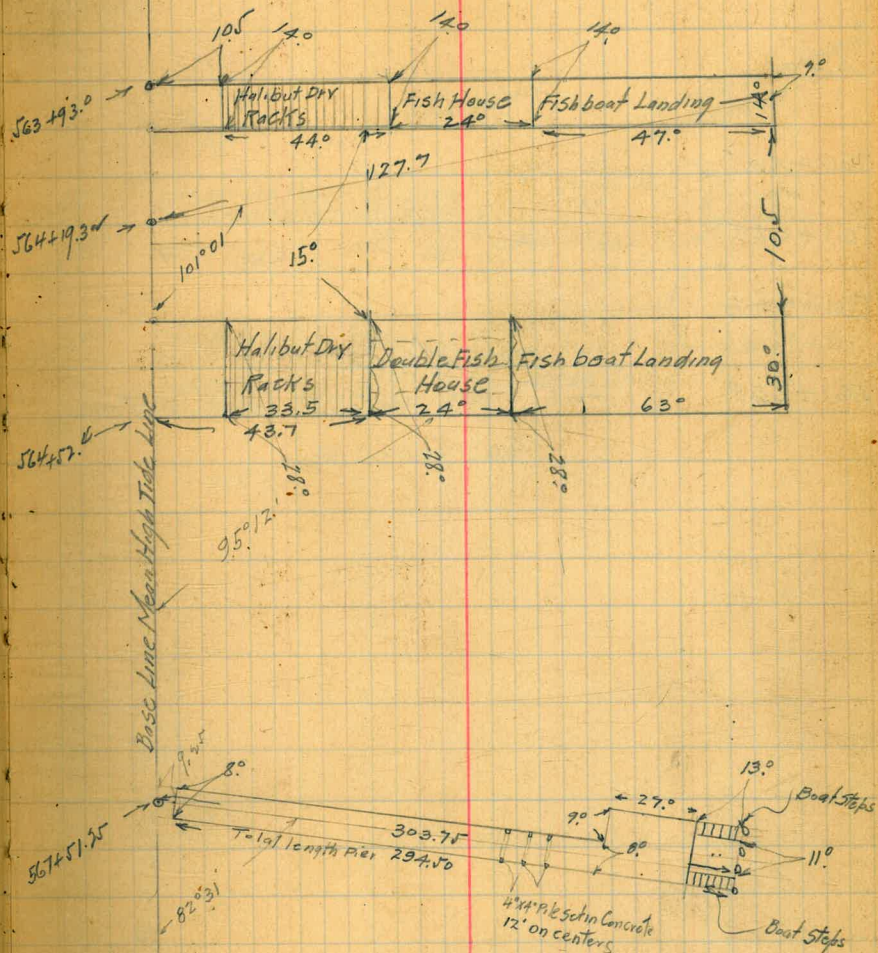
Steve Zolezzi

564+52.6

567+51.25

Int @ pier or Boat Landing foot of Kellogg St
Point Kama Ferry

158.80
144.13
33.67



560+94.5

561+08.5

561+22.6

561+36.0

J.V. Sobresias

John Monise

2921 McCall St. Point Loma

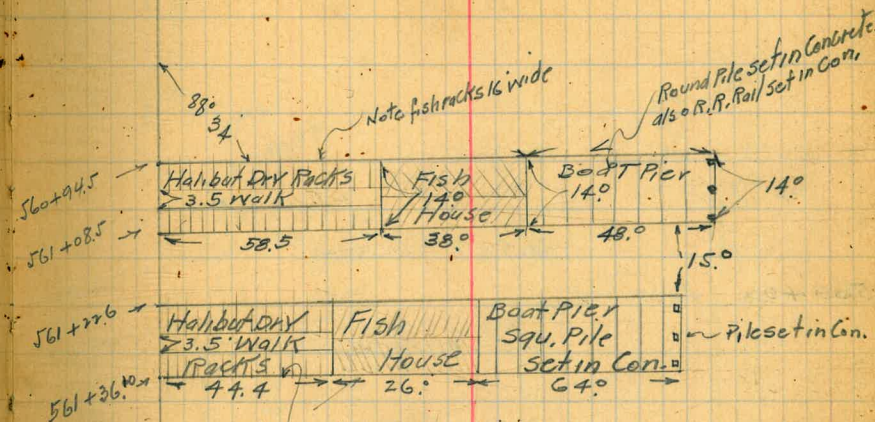
562+01

Loading Pier about 7 west of old rail sideway

F.D. SILVA

89 21 20
90 39

Eail Williams June 1940 4

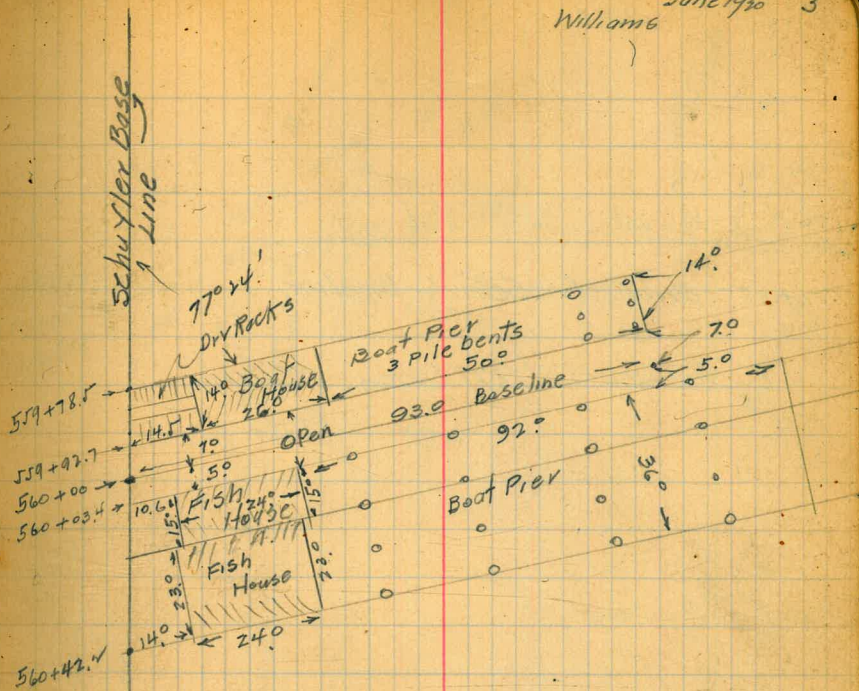


Base Line of Mean High Tide Line
Schurter

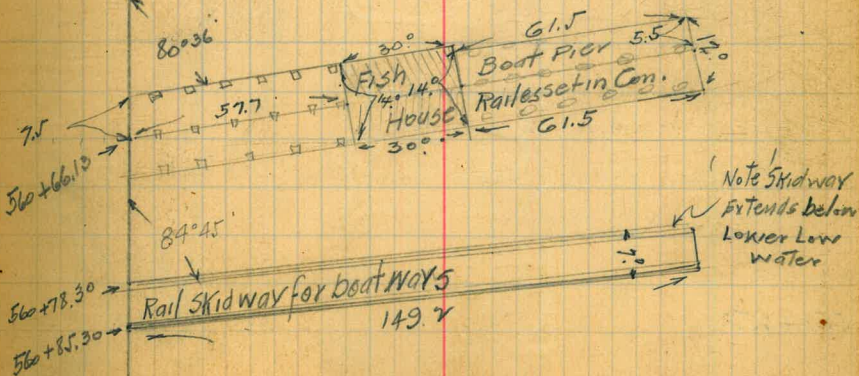


Earl June 1930 3
Williams

560+00 Base line
M.S. or N.B. Soares
N.S. Cordoza
F.D. Silva



560+66.13 Int. & McCall Street Frank Goularte La Playa

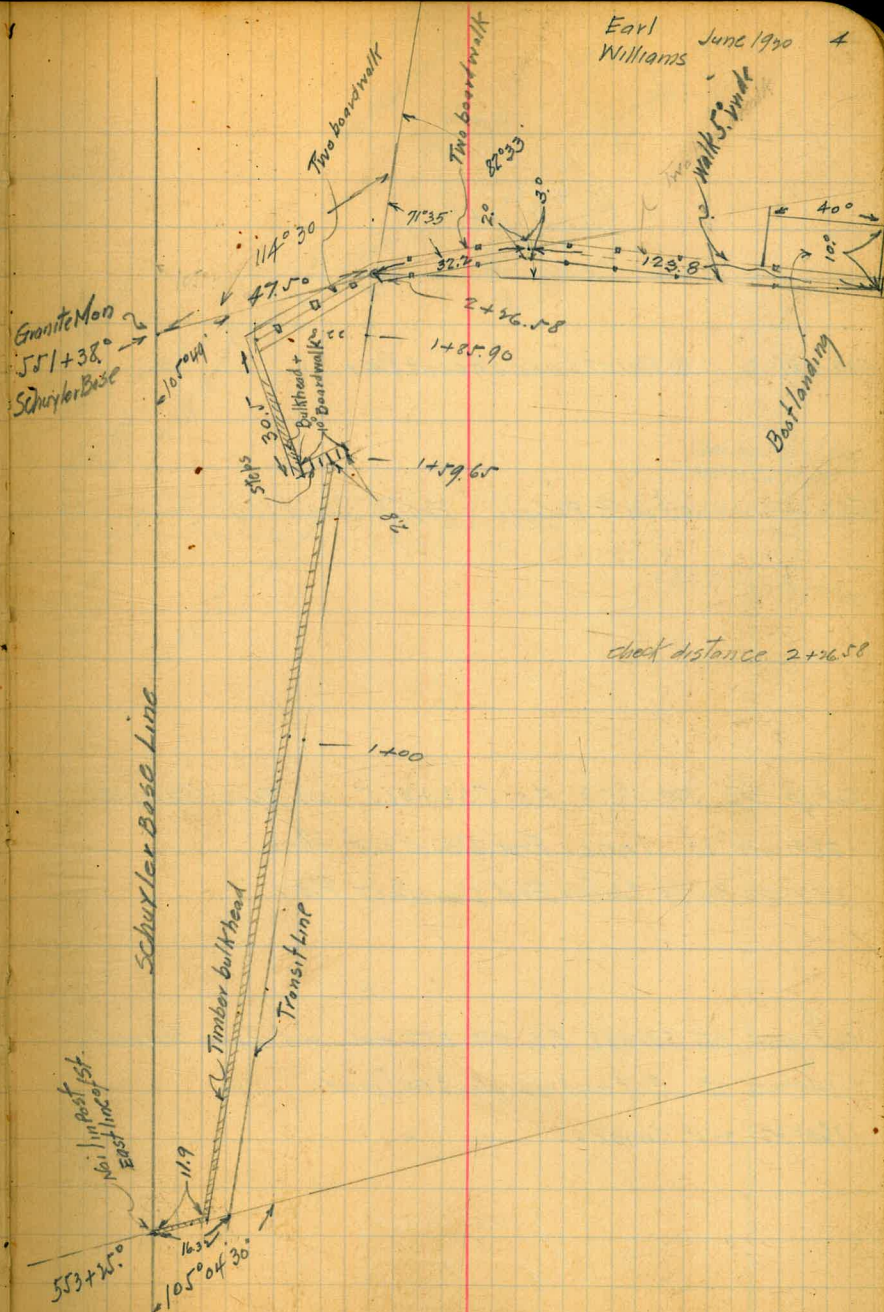


560+78.30
560+85.30 Frank Goularte La Playa

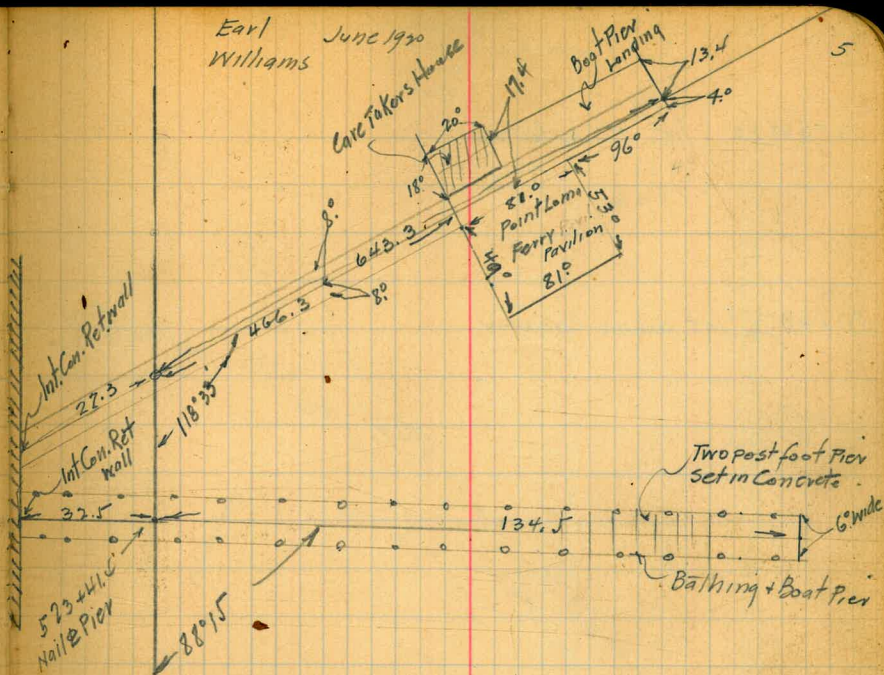
551+38° Granite Mon. Schuxler Base Line

Will Angier 2828 Owen Pt Loma

553+25°



Earl Williams
June 1930



519+85.3 @ Point Loma Ferry Pier

523+41.4 Nail in Pier (Frank Jennings)

Setup Sta. 519+85.3 F.S. 532+01.5 on Zero Azimuth

33° 07' Lt Inner End Deredect Pier

35° 47' 30" Lt Outer End Deredect Pier

Setup at Sta 551+38 F.S. on 552+00 on zero Azimuth

149° 02' Lt Out end deredect rail pier.

160° 32' 30" Lt Inner " " "

505+48.73 Int. & Carlston

511+48.3 Int. S. Line Cannery

513+06.31 Int Bldg Line

513+14.68 Int Pile Bulkhead

513+35.54 A. Mon.

Earl
Williams July 1920
C. Moore
Keeler

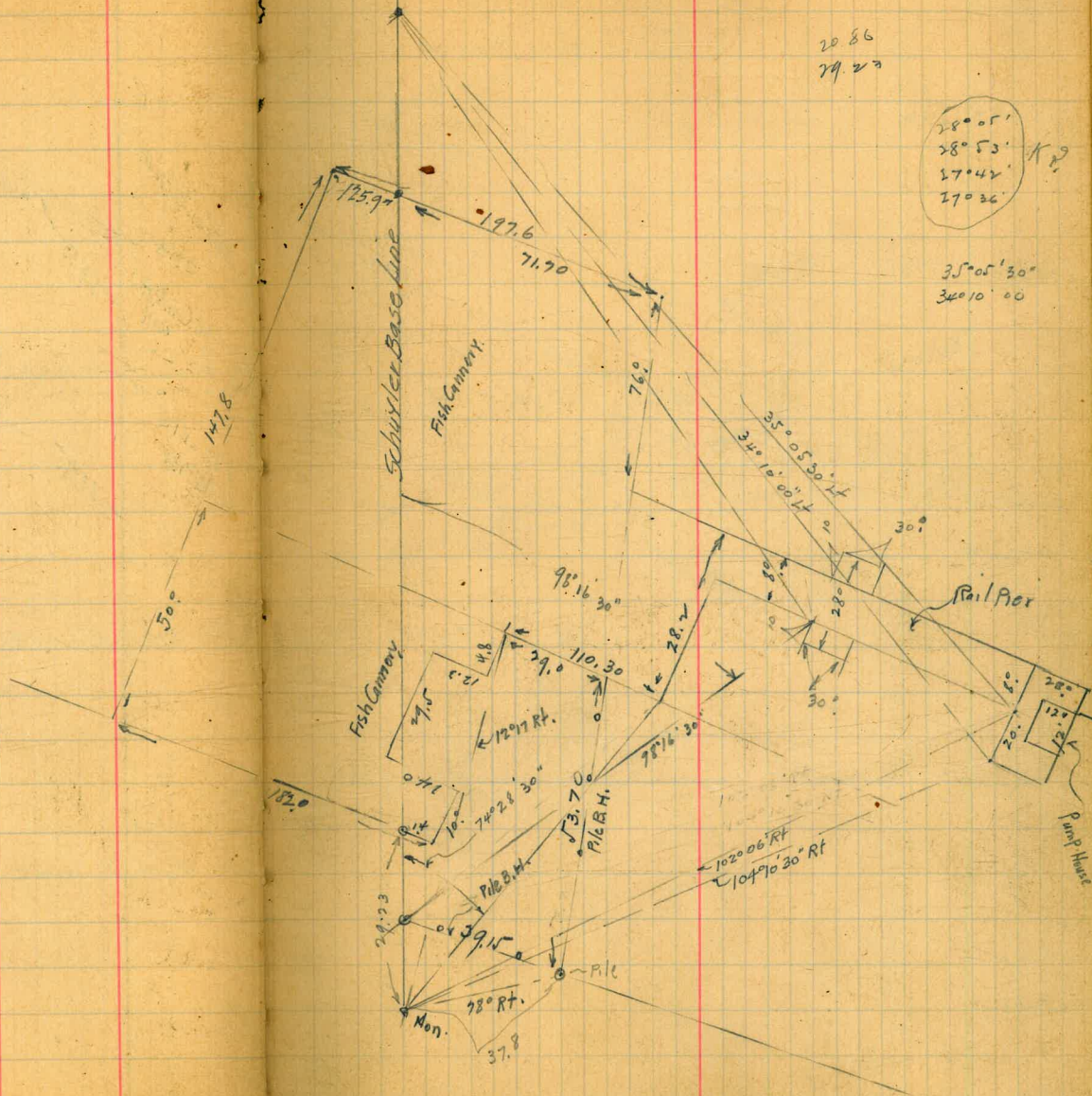
10
29.5
12.3
81.8

6

20.86
79.23

28° 05'
28° 53'
27° 42'
27° 26'

35° 05' 30"
34° 10' 00"



501+16.0

501+67.3

501+32.43

502+38.25

503+00

505+48.23



76.8

32.7

67.3

31.8

6.5

38.3

Earl, Williams

Noore, Keeley

July 1920

25.7

91.9

44.3

41.7

41.7

50.2

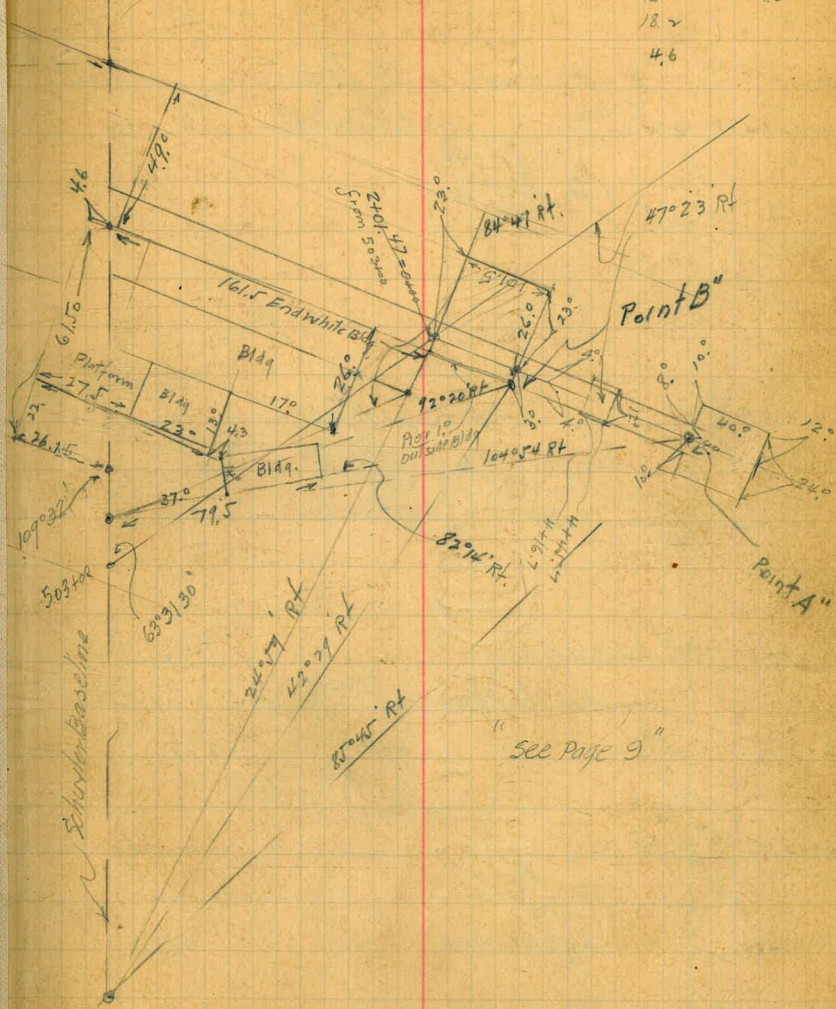
46.2

61.8

18.2

4.6

7+50° = 8° wide 49.
 7+60° = 24° wide
 End Pier 7+99.7 = 24° wide



501+10 496+77.18 2 Walk 4' wide (Prioste)
 496+84.18 2 st. M.F. Prioste

501+67

499+26.9

(Joe Marvants)

501+3

502+3

503+0

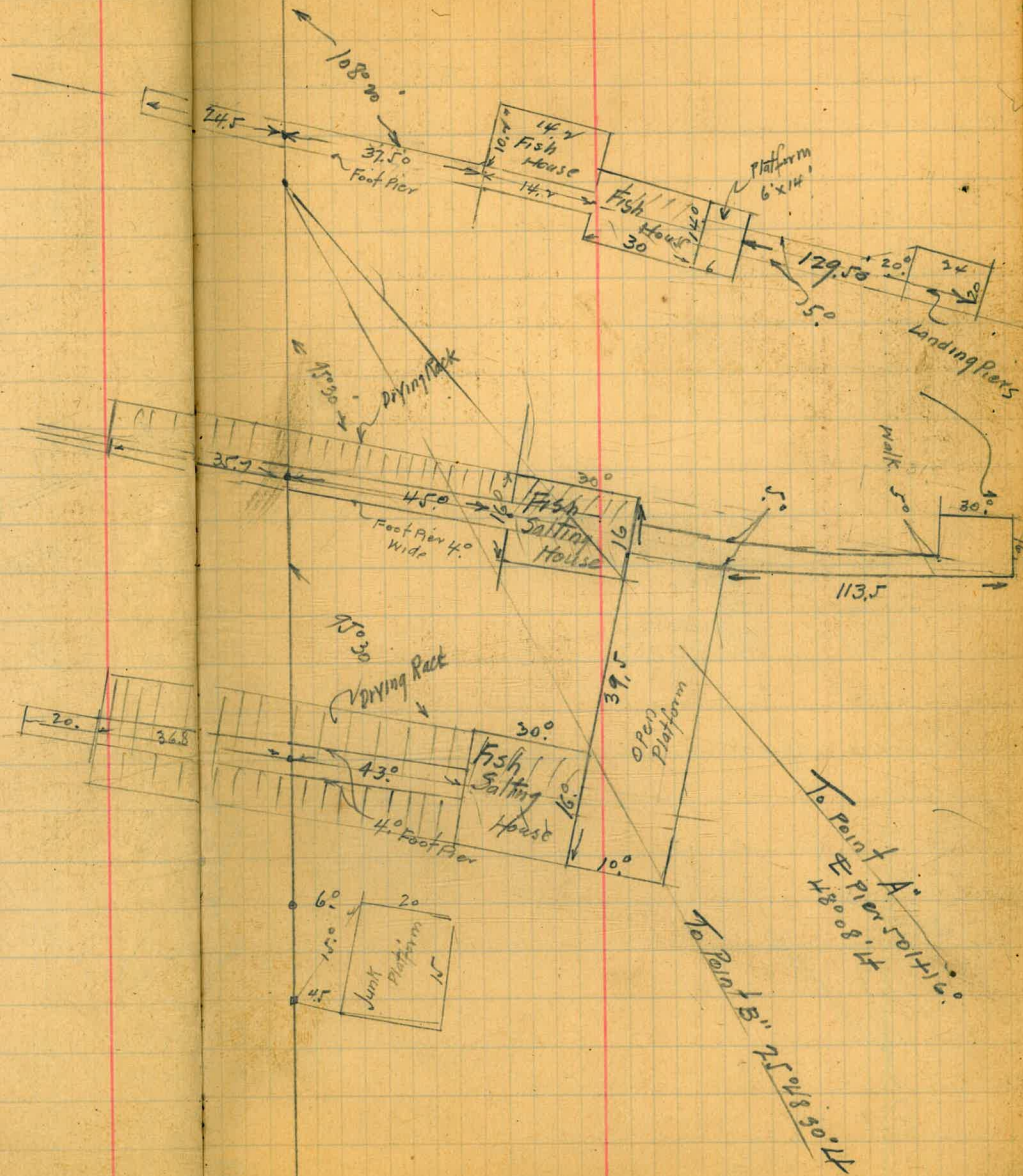
499+51.1 M. M. George
 Leased by American Fisheries

499+85

500+00

Abandoned

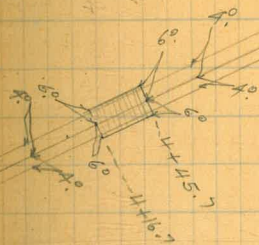
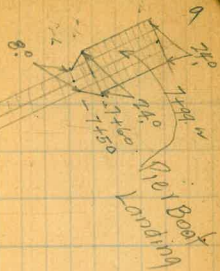
505+4



Williams
Moore
Dorval
Nov. 9. 1920

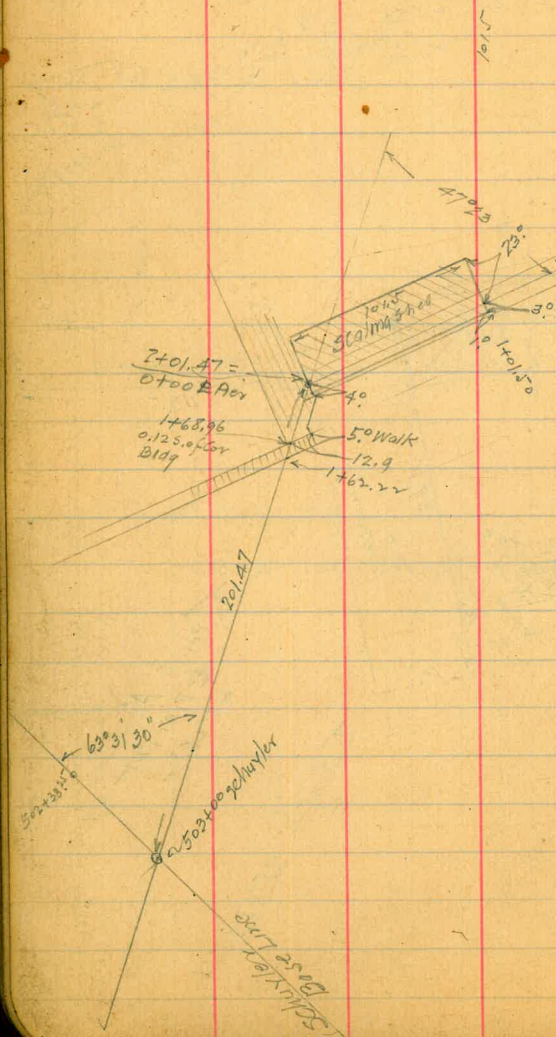
Pior San Diego Canning Co.

Lease Jose Azevedo



1.19 32.57 6.14

5' wide 39.2 platform



64.17 Int from frog.
 991
 11.95

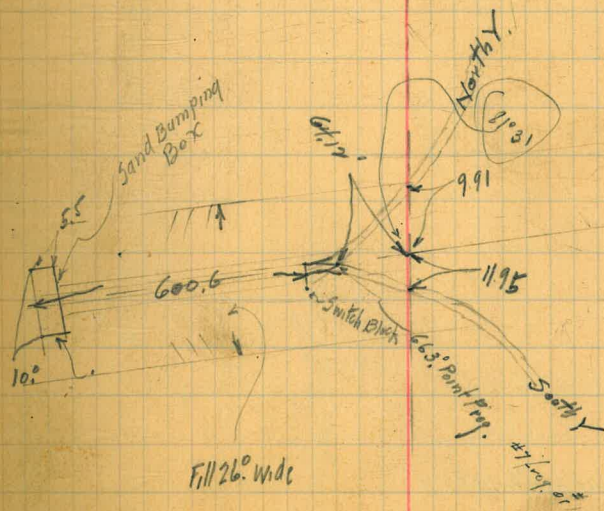
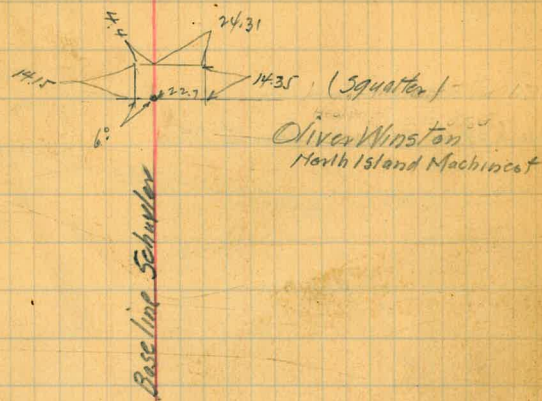
280+44.42

317+90.14 Int. of SD+A. + SF.Y.
 Leas No 73 in Lease Book

90.17

5.5 S.B.
 10.0
 F. 11 18.13 26

663 Point Frog - 10
 600.6 Switch Block
 Frog Point to toe 6.0
 Heel width 0.90 6 to 6



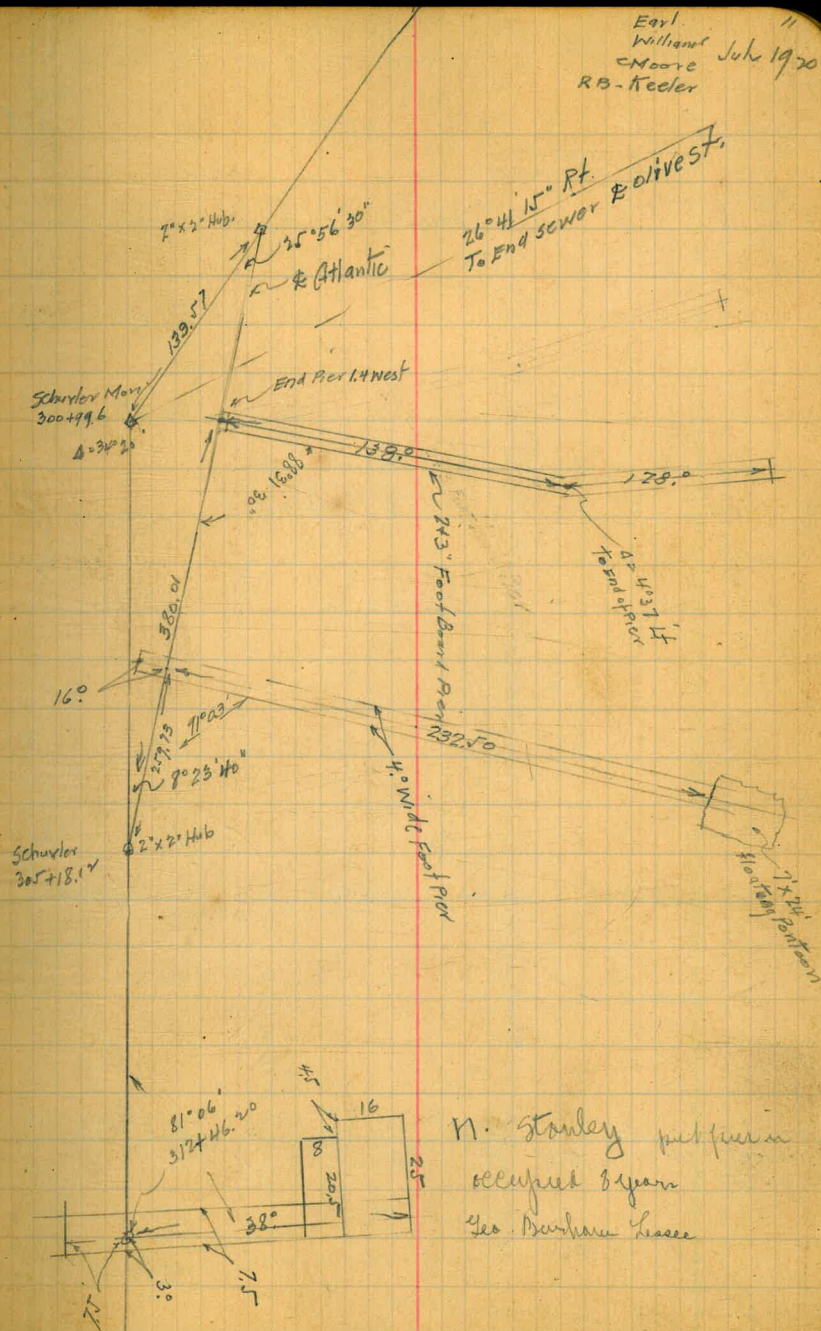
299+60.03 Infr. R Atlantic with Schuyler Base line

300+99.60 Schuyler Granite Mon.

312+46.20

Boat Landing Pier

Earl
William
Moore
R.B. Keeler
July 1920



Earl
Williams July 1990
Moore
Keeley

91° 05' 20"
90° 04' 00"
89° 57' 45"
88° 05' 50"
359 59 11"

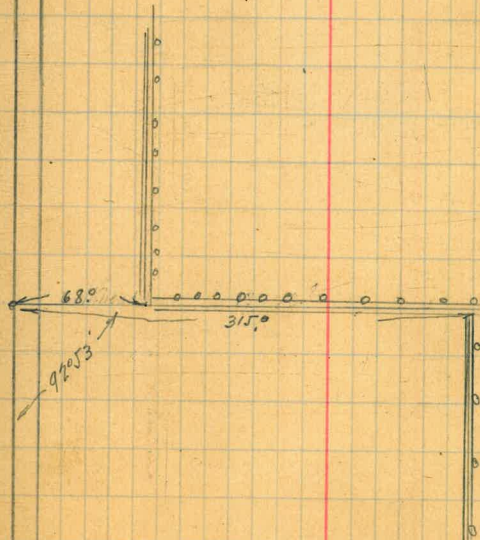
14

Schuyler Mon.
248+10.21

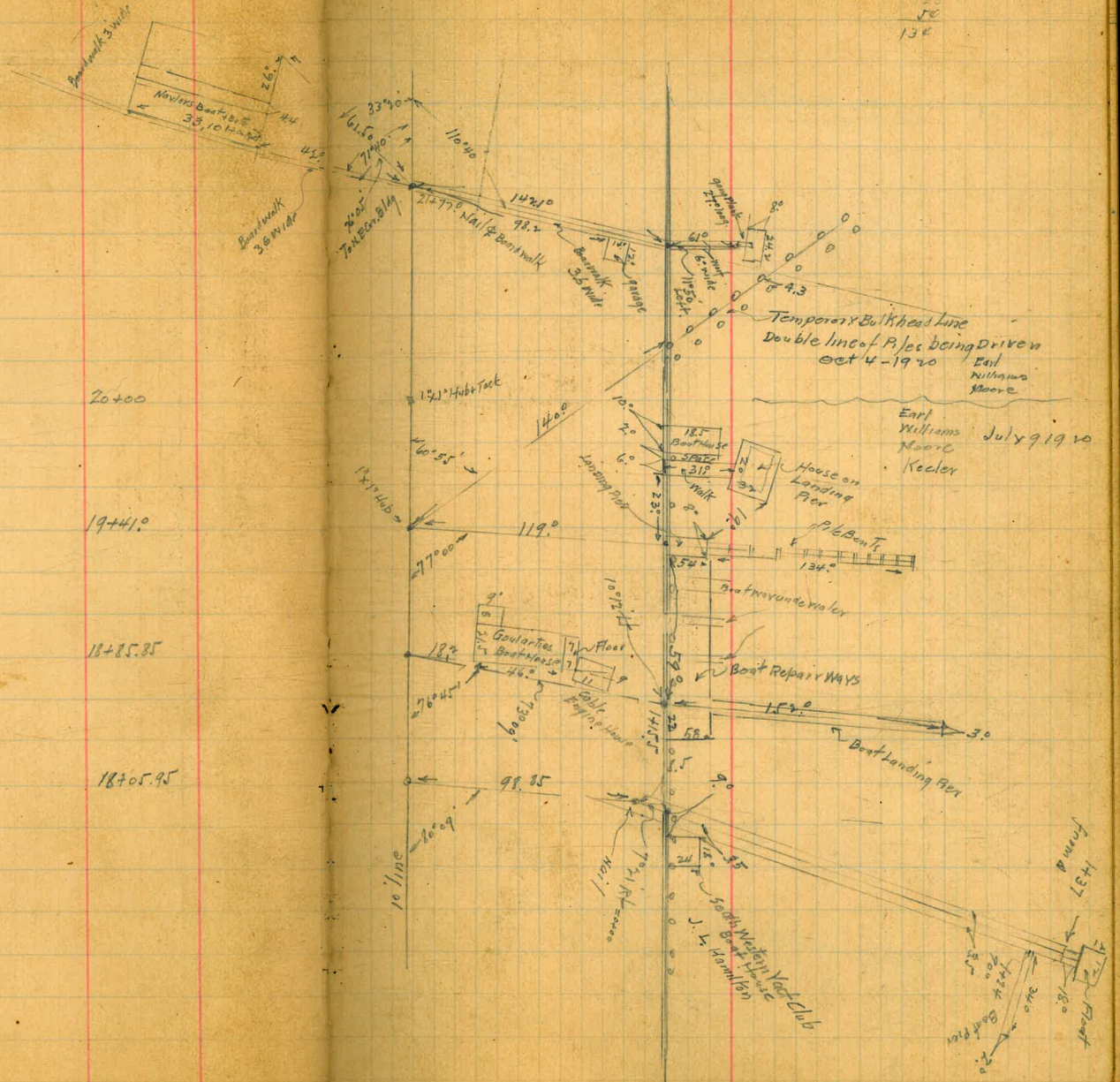


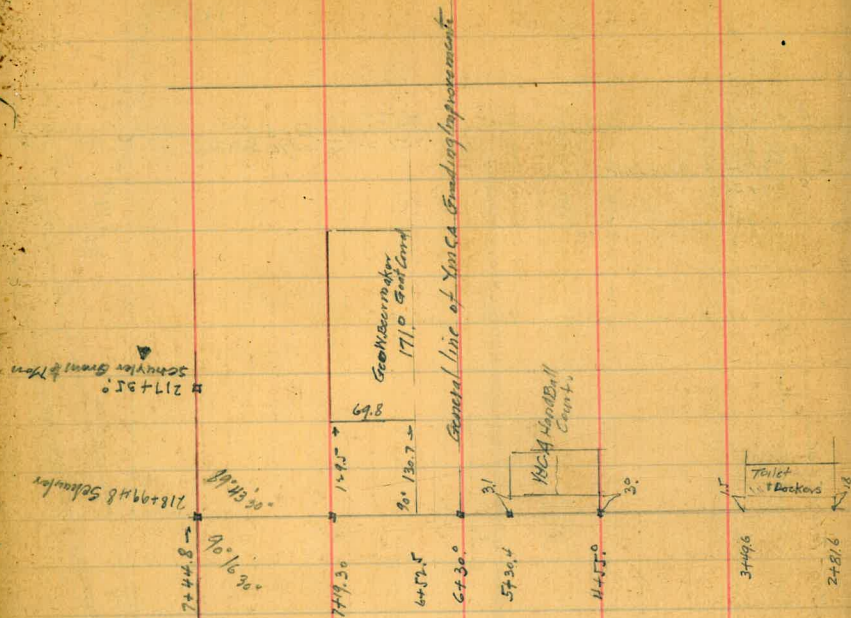
California St

Bullshead
13+28.8
Schuyler Base line



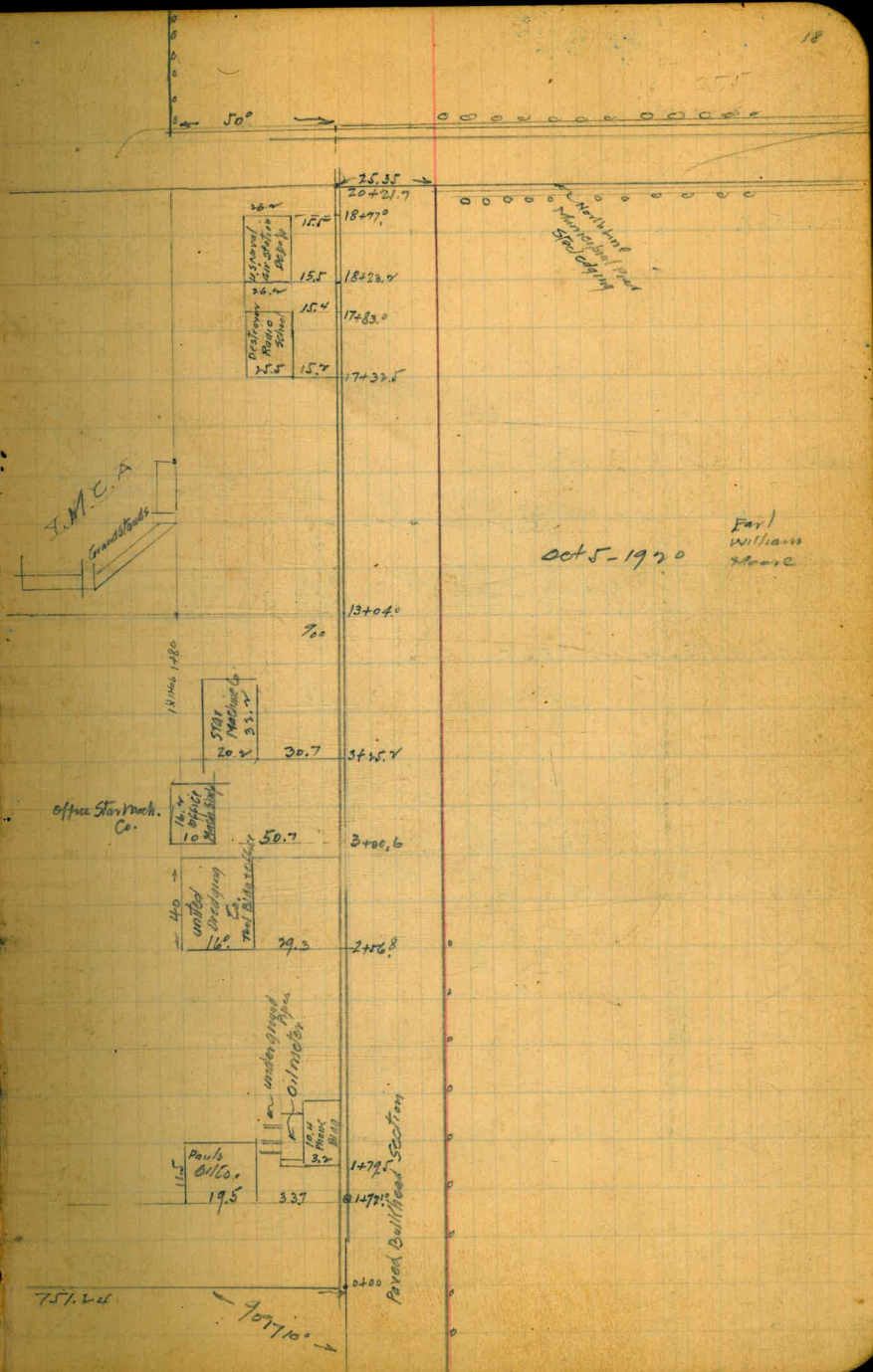
133
58
134





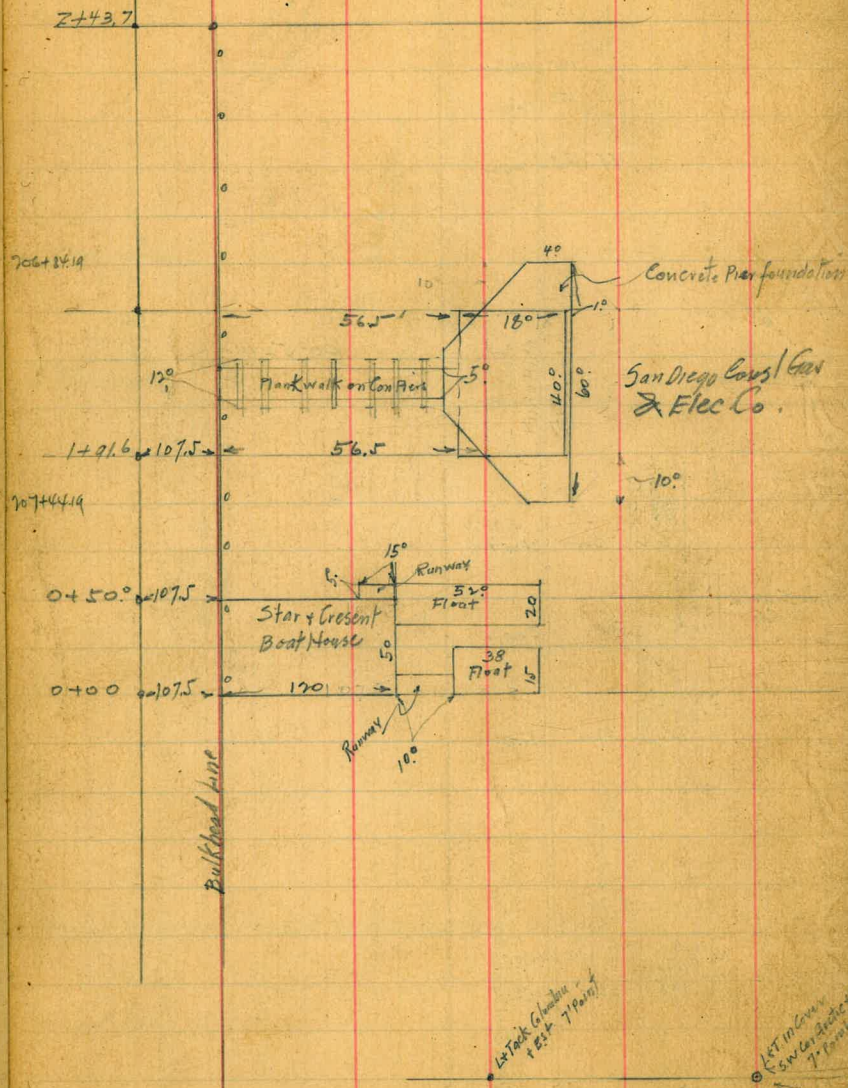
Buildings occupying Beach St. on Bulkhead Line

732+00
Schuyler
Cont. Mon.



Oct 5 - 1920
Earl
William
House

Williams
Earl Oct 5-1920
Moore

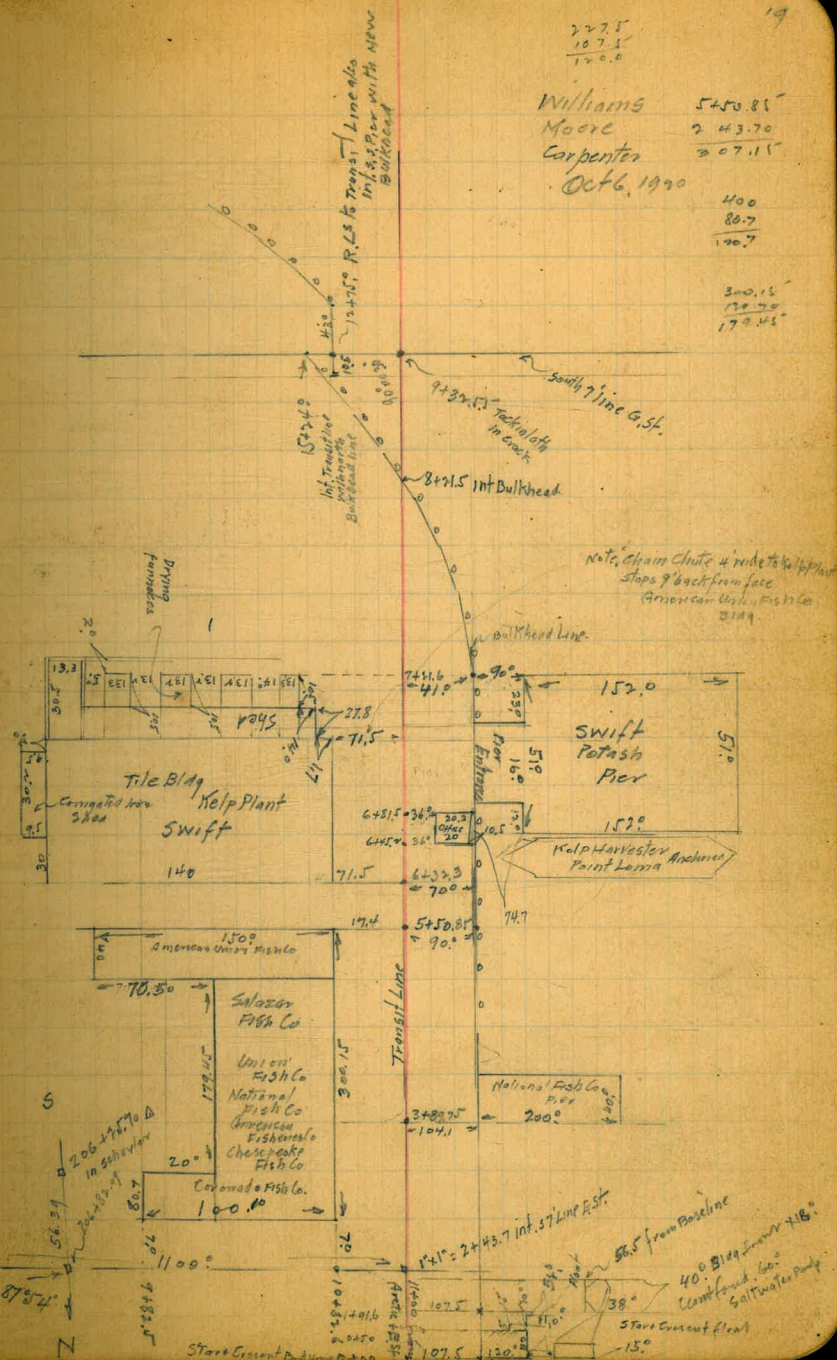


227.5
107.1
120.6

Williams 5450.81
Moore 243.70
Carpenter 207.15
Oct 6, 1920

400
80.7
190.7

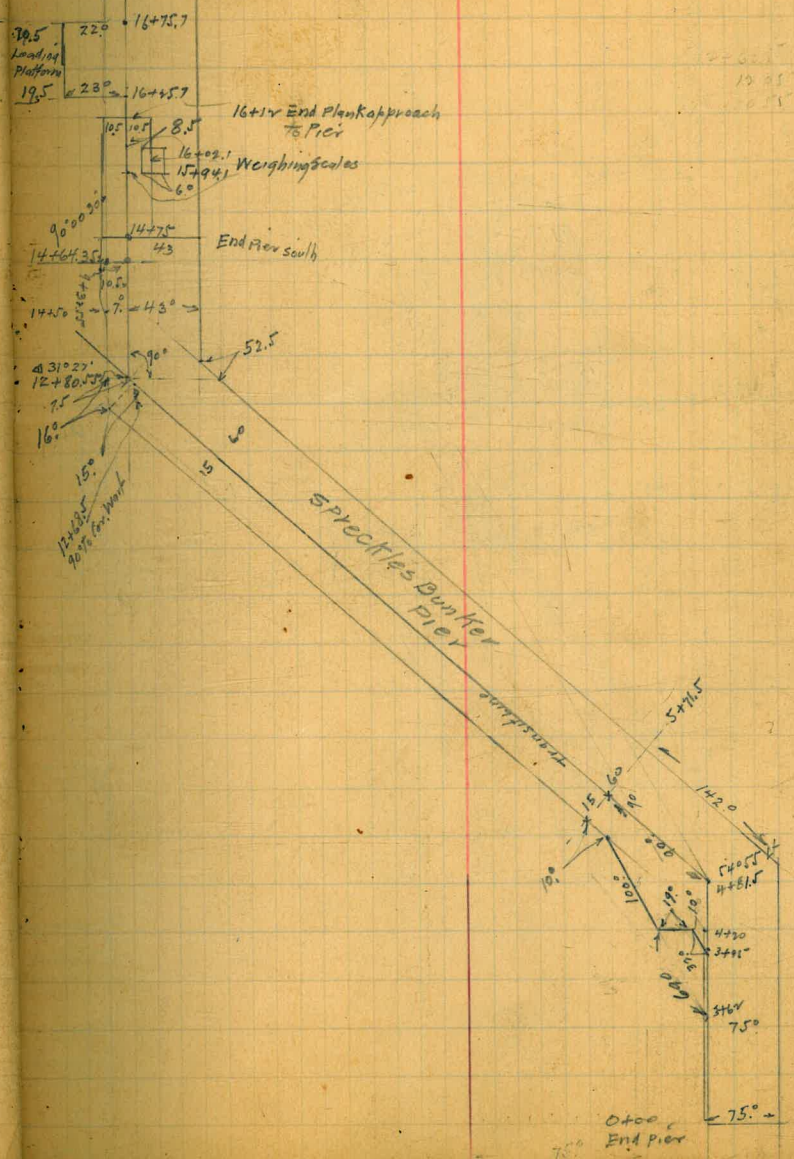
300.16
120.70
179.46



Williams
Moore Oct 6-1910
Carpenter 20

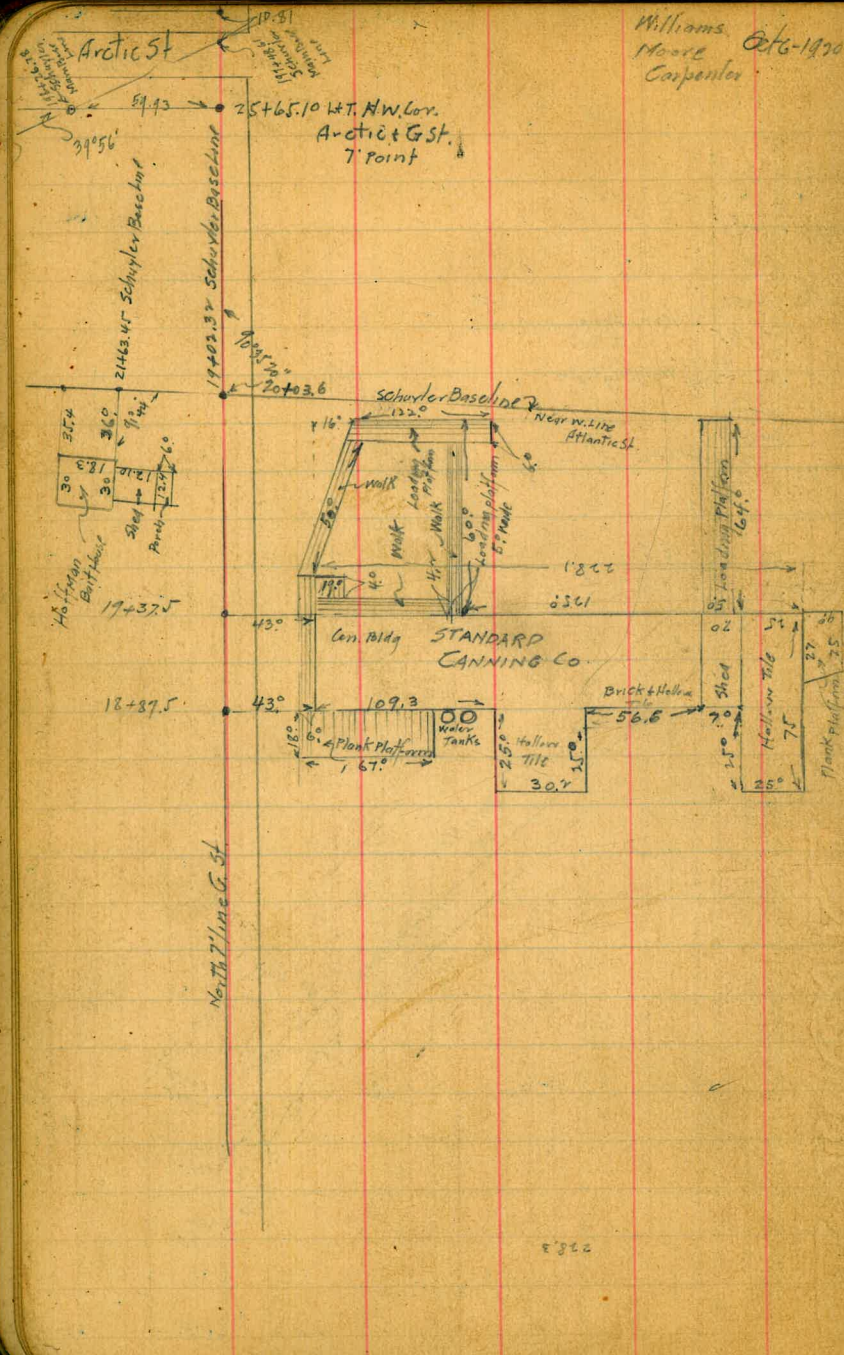
N7 line GSt. See next page
for tie to Schurlev
and Arctic + GSt.

50	Hallway tile
	Loading Platform
	Bins
	50

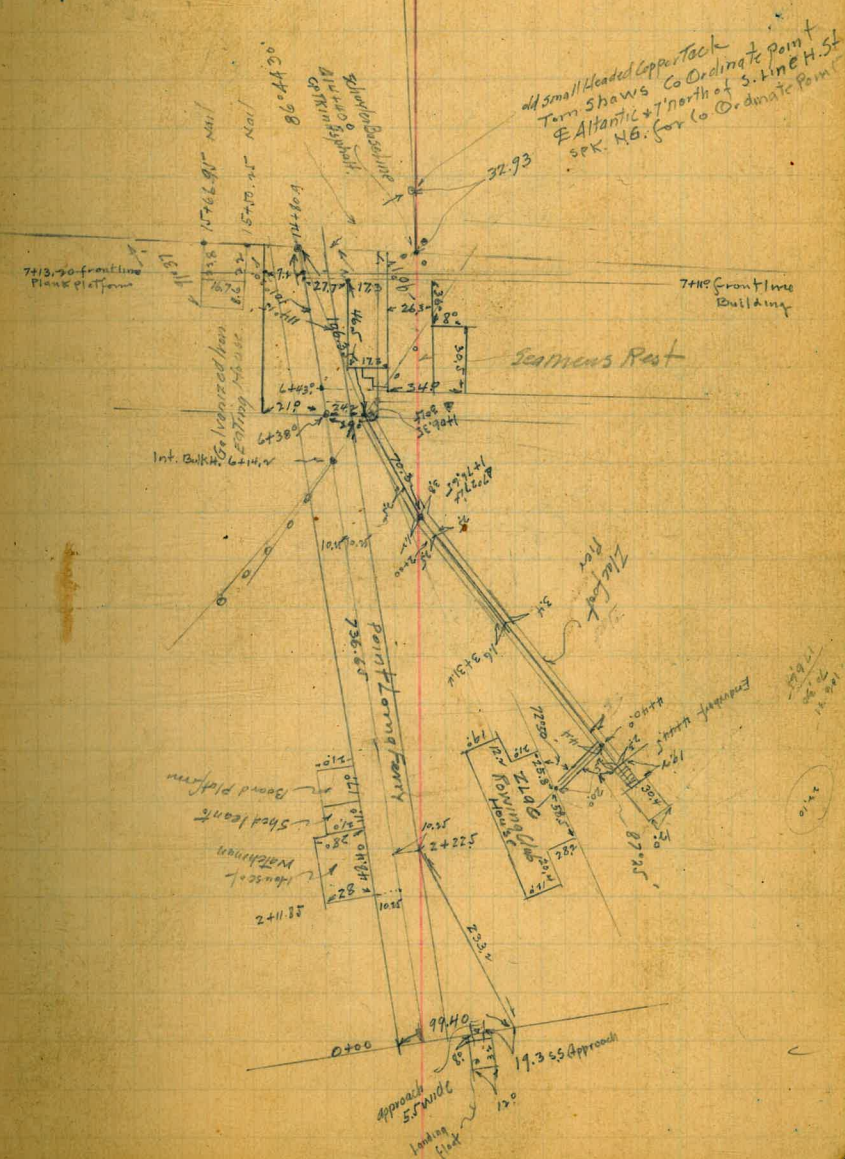


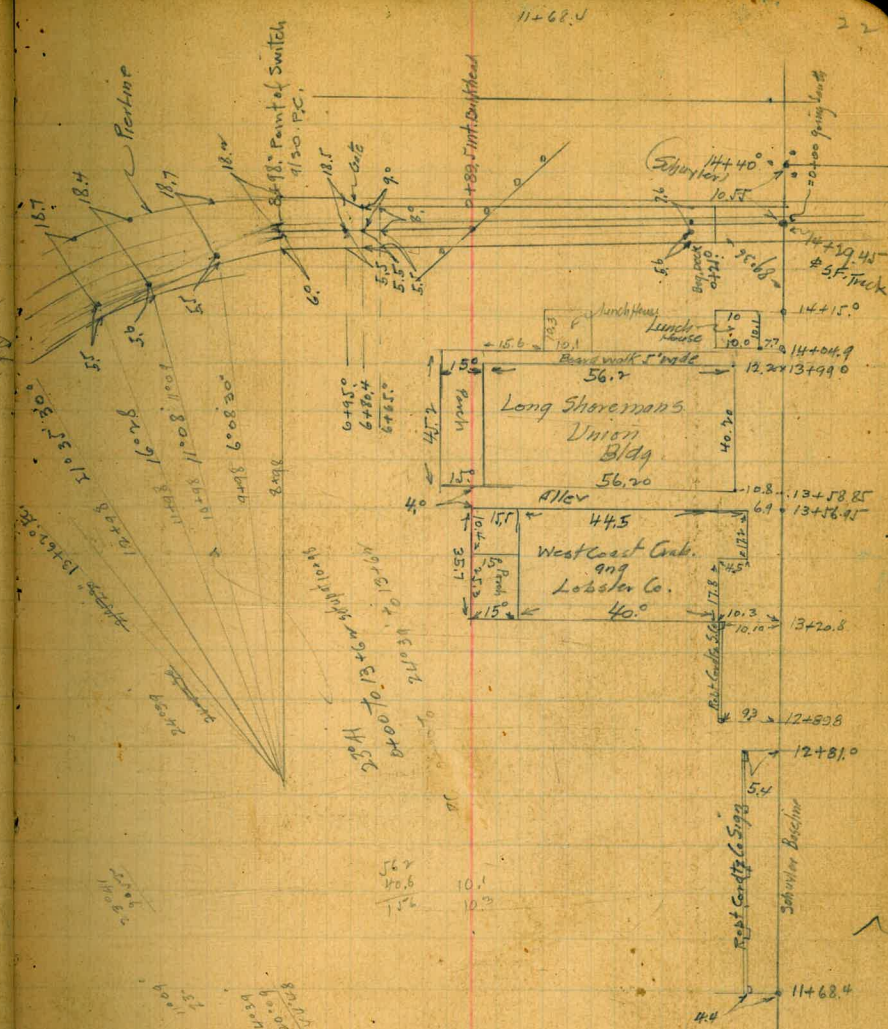
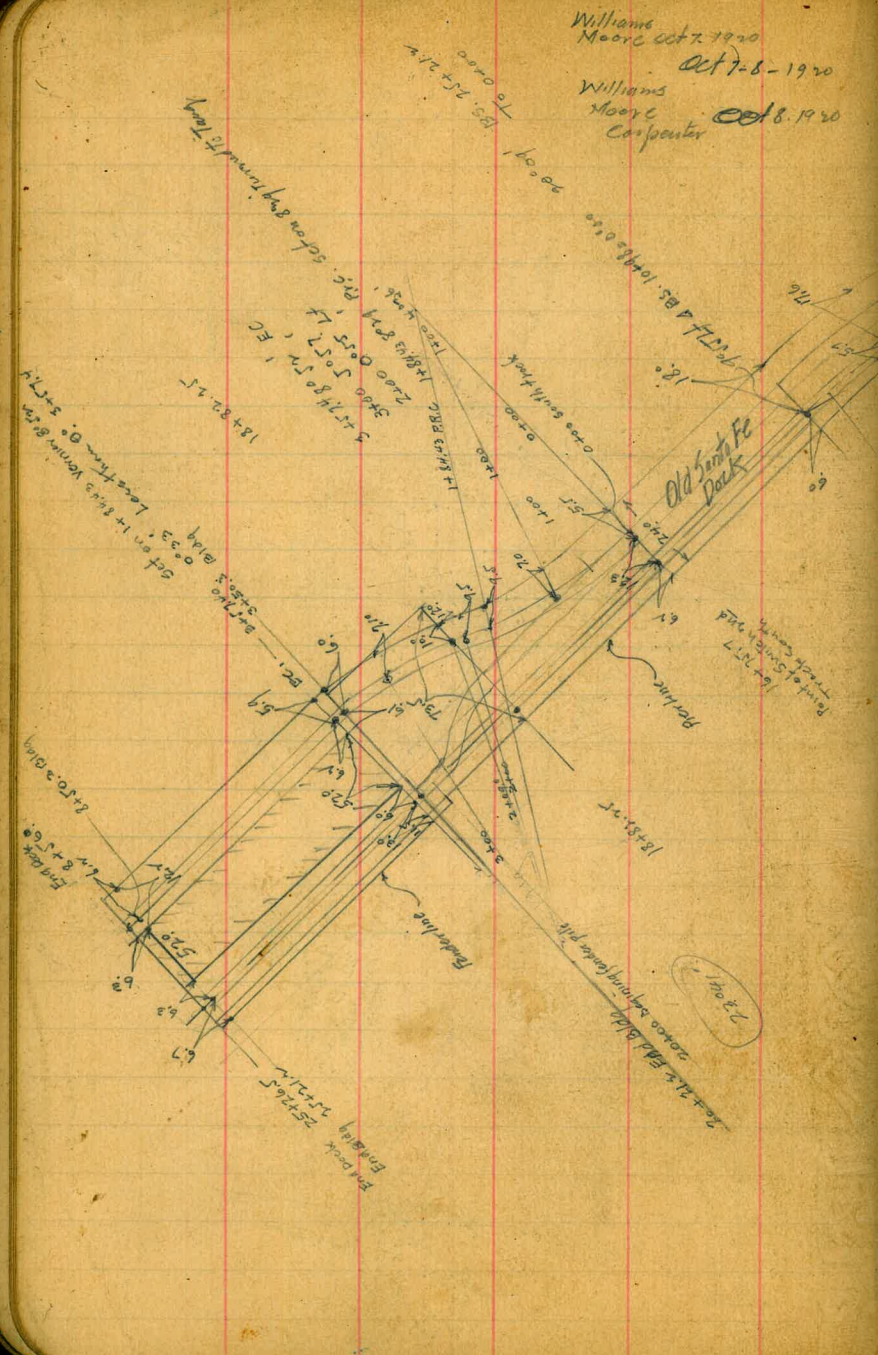
Transit line

Williams
Moore
Carpenter
Oct 6-1920



7+50.61
14+80.90
21





(P.C.)
 Setup at 98 B.S. to 0+00 Lt 11° 08' to 10+98.
 Lt 24089 to 12+67.
 Setup at 10+89 B.S. at 2+98.
 Lt 23° 41' to 13+67.
 Setup at 13+67° B.S. 25+21.7
 Rt 7° 55' to 10+98
 Rt 7° 00' to 8+98

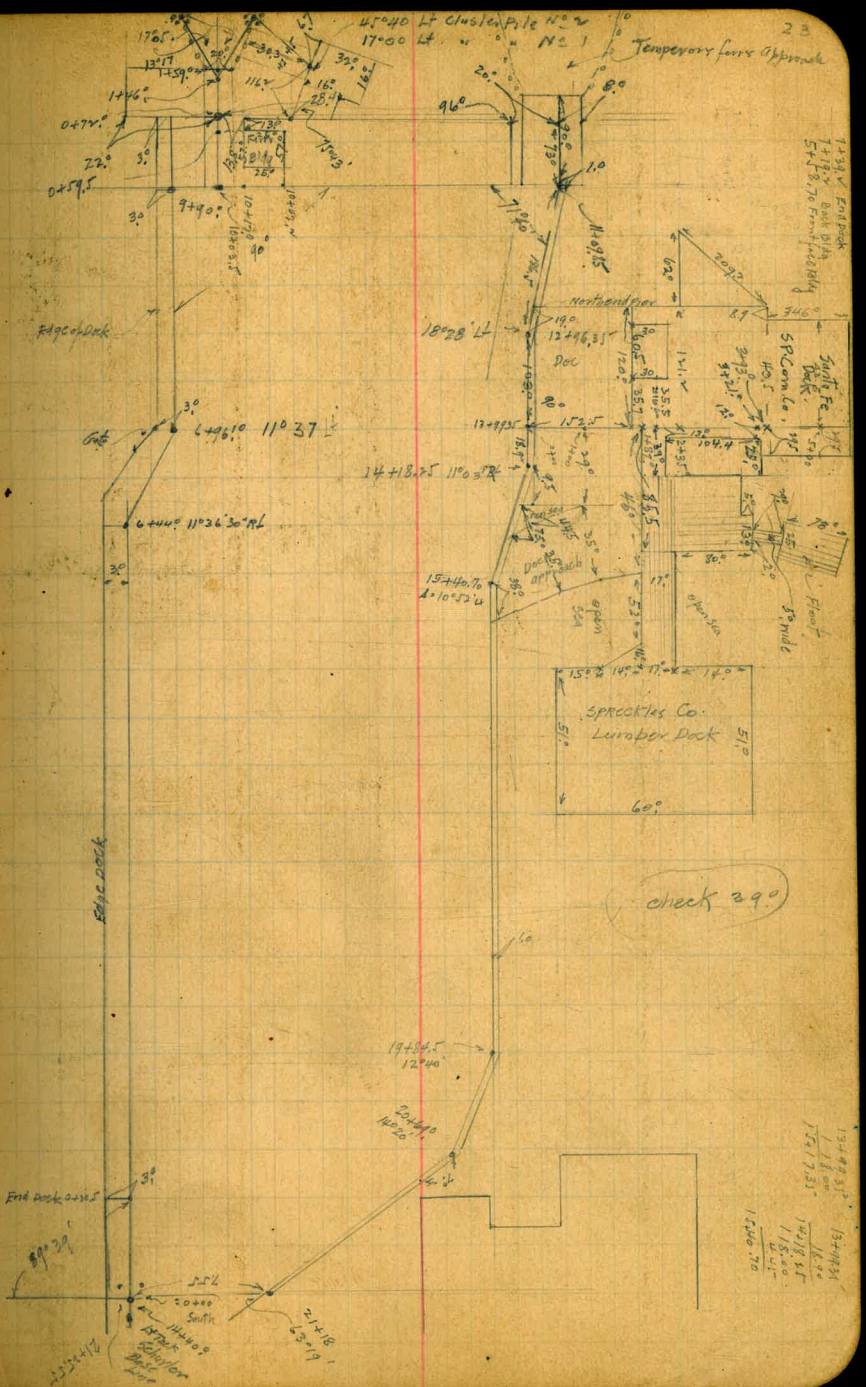
Williams
Moore
Carpenter

Oct 8. 1920
Oct 9. 1920

34210
210.6
107.8

140° =
31.7
20.1
96.2

109° 20'
121° 35'
134° 35'



134° 35' (34° 29')
121° 35'
109° 20'
134° 35'
121° 35'
109° 20'

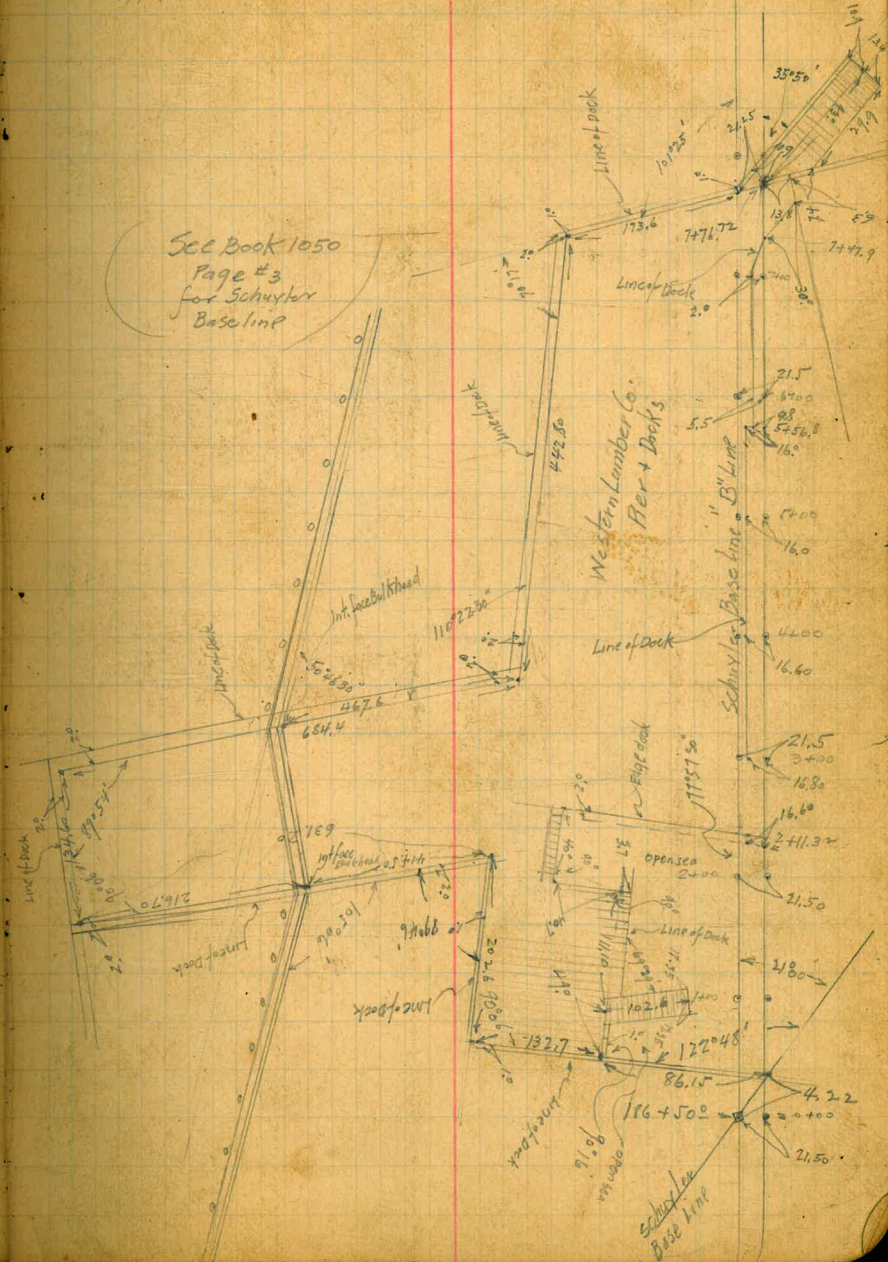
Survey of Western Lumber Company Pier and Docks

Williams
Moore Oct 11, 1920
Folke

177° 57' 30"

See Book 1050
Page 43
for Schuyler
Baseline

726.0
21.4
928.5



651.20
216.70
434.50

16.70
26
106.70

Survey of Russ Lumber Company Dock

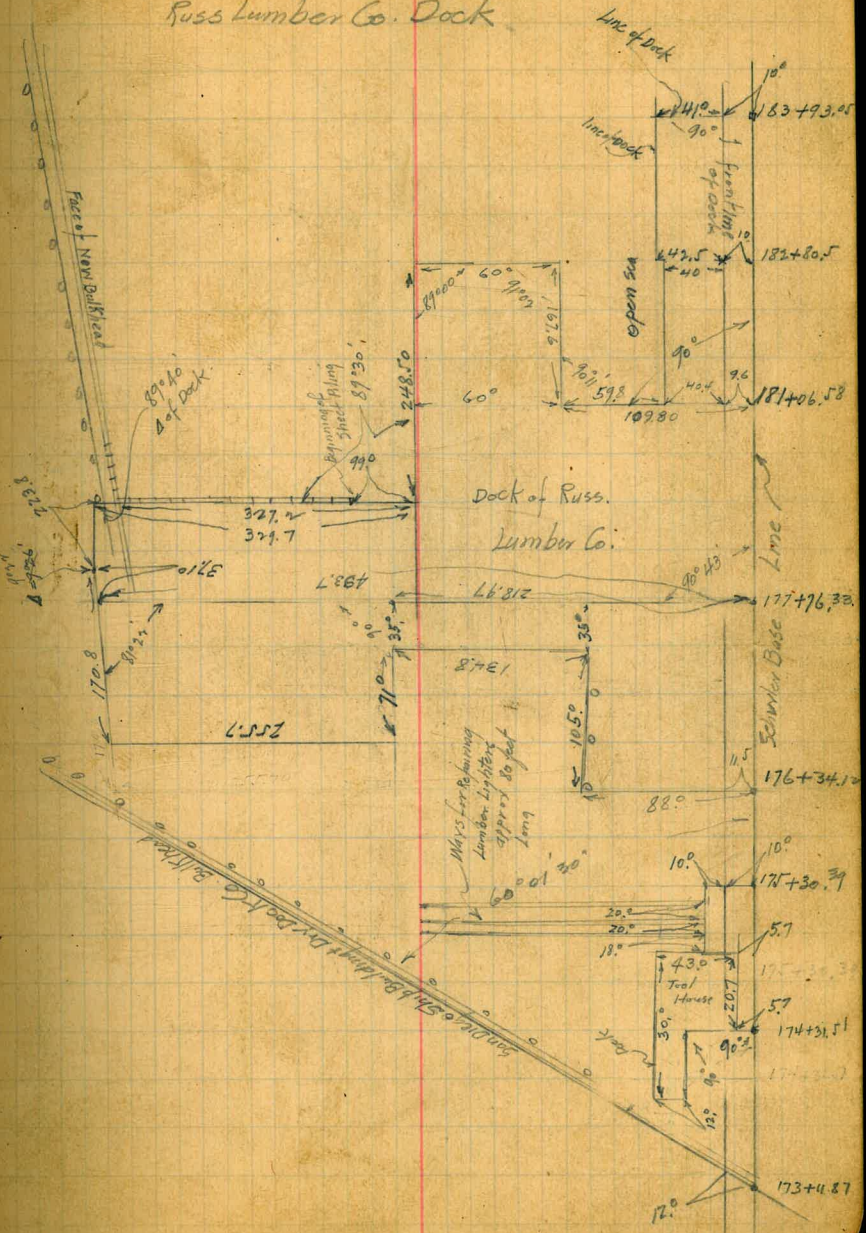
Russ Lumber Co. Dock

18° 43'
112.5
18 28 0'

Williams
Moore
Follett

Oct. 14 - 1920

25



25/1/11

Williams Moore Feb. 15 - 1911

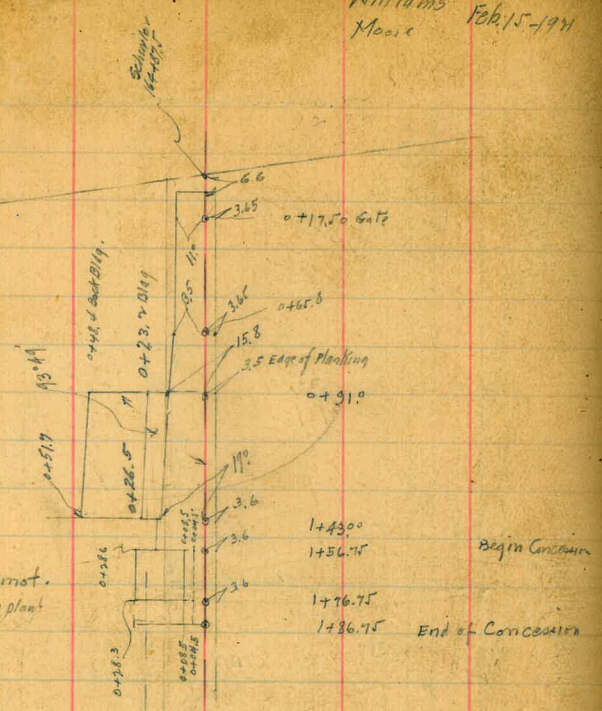
26.5
25.4
+1.7

4.5
8.5
91.0
28.6

C.B. Schuler →
Filing House

4.5
8.5
28.3

Wright & Darmot.
Kodak finishing plant



Williams Moore Oct 14 - 1920
Folke

San Diego Rowing Club Pier 26

129+99.0 Mean

Schuyler Base Line

Silver Gate
Girls Boat House
Attached

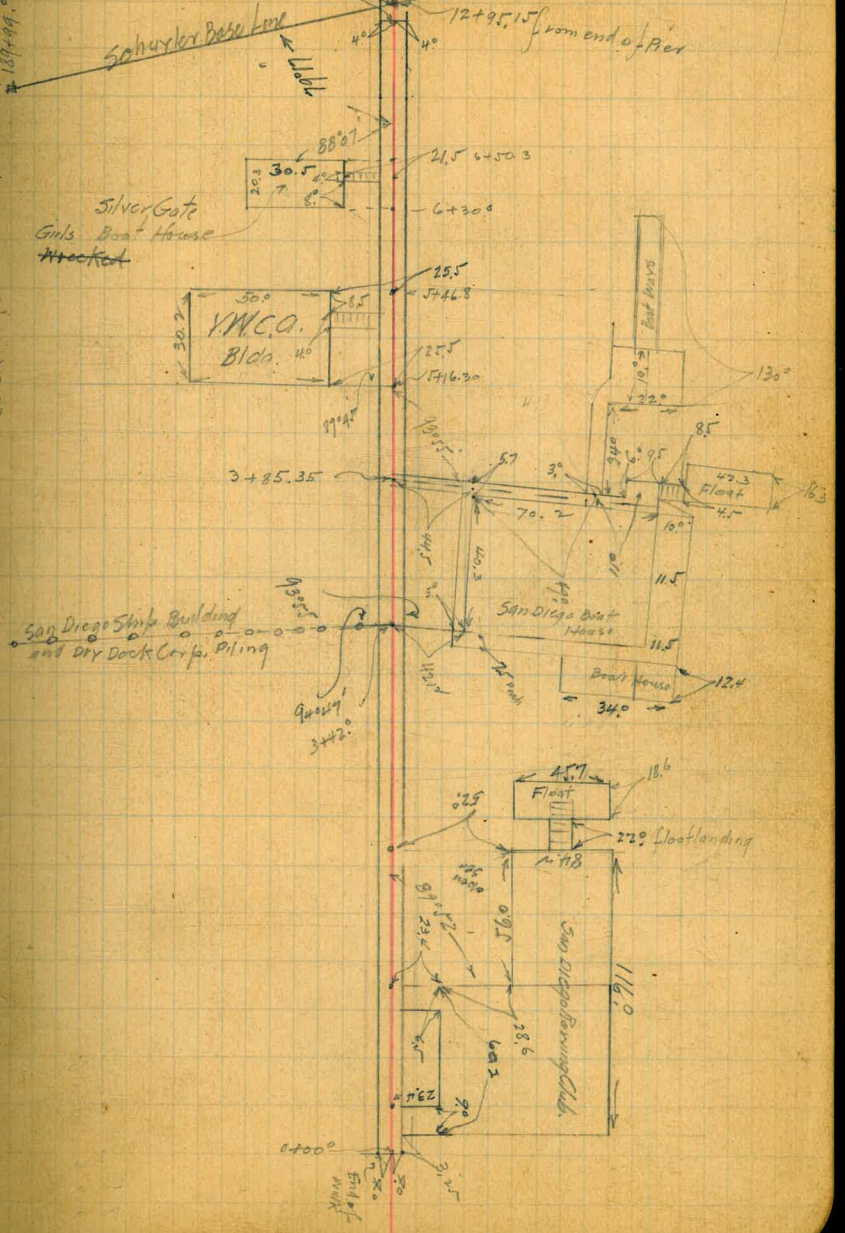
YMCA Bldg.

San Diego Ship Building
and Dry Dock Corp. Piling

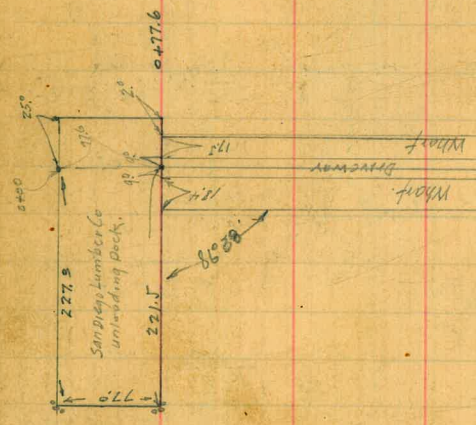
Quantity
3+42.0

Float

San Diego Rowing Club



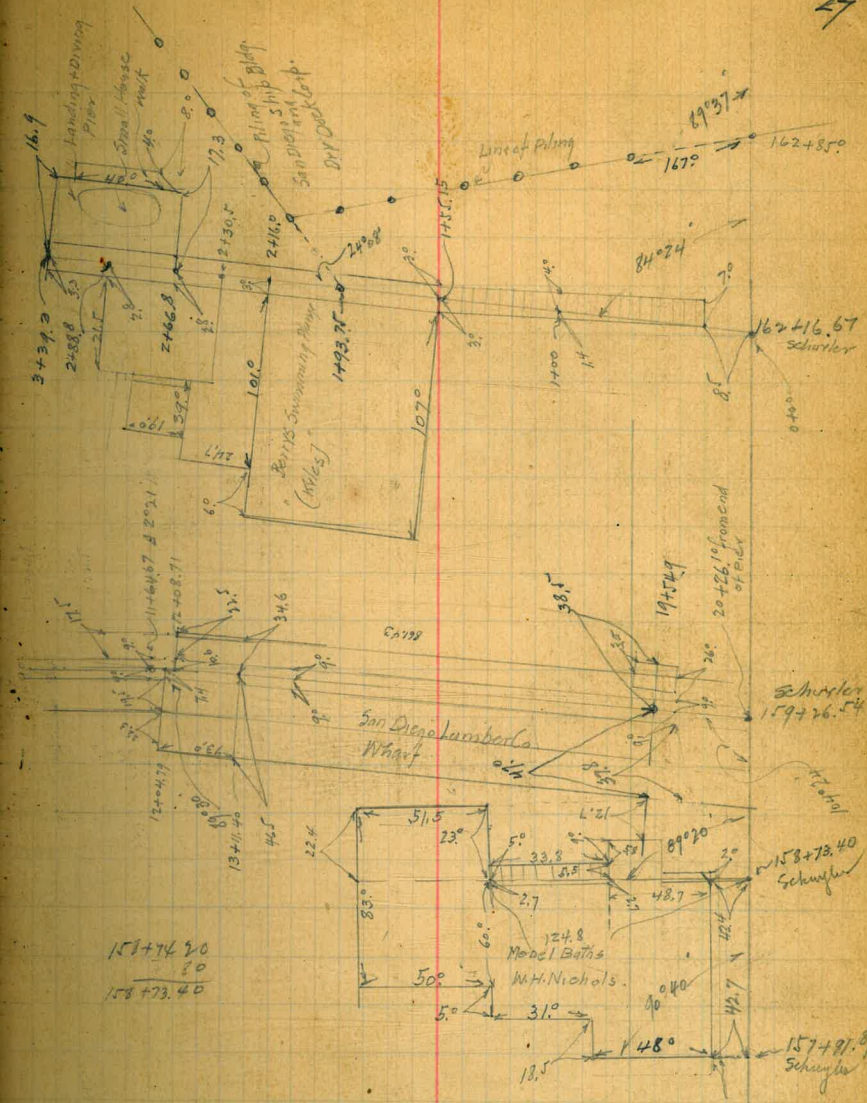
Survey of Berrys Plunge Model Bath House 777 S.D. Lumber Co Wharf.



221.5
175
85.89
67.6

158+01.71
9.82
157+91.89

Model Bath House Mullender, Crigden, Goodman, Nichols
30 1/2 St
Est. betw 7+8



158+74.20
80
158+73.40

124.8
33.8
48.7
51.5
134.0
42.4
176.3

Schurter
157+26.54

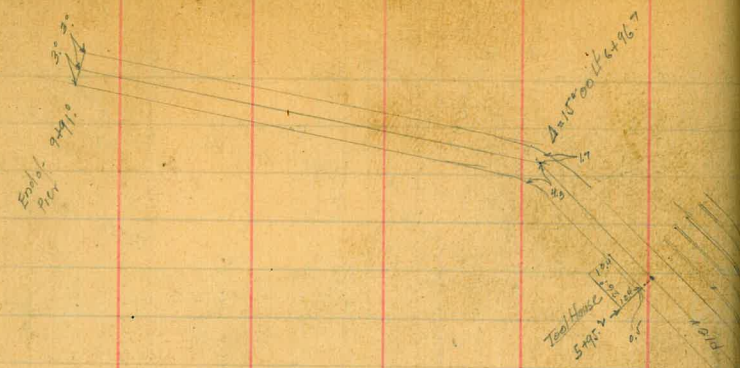
Schurter
158+73.40

Schurter
157+91.89

Wilkams 57.04
 Moore Oct 16 - 1920 53.08
 Folke 18 - 1920 27.40

27.42
 1.78
 29.20

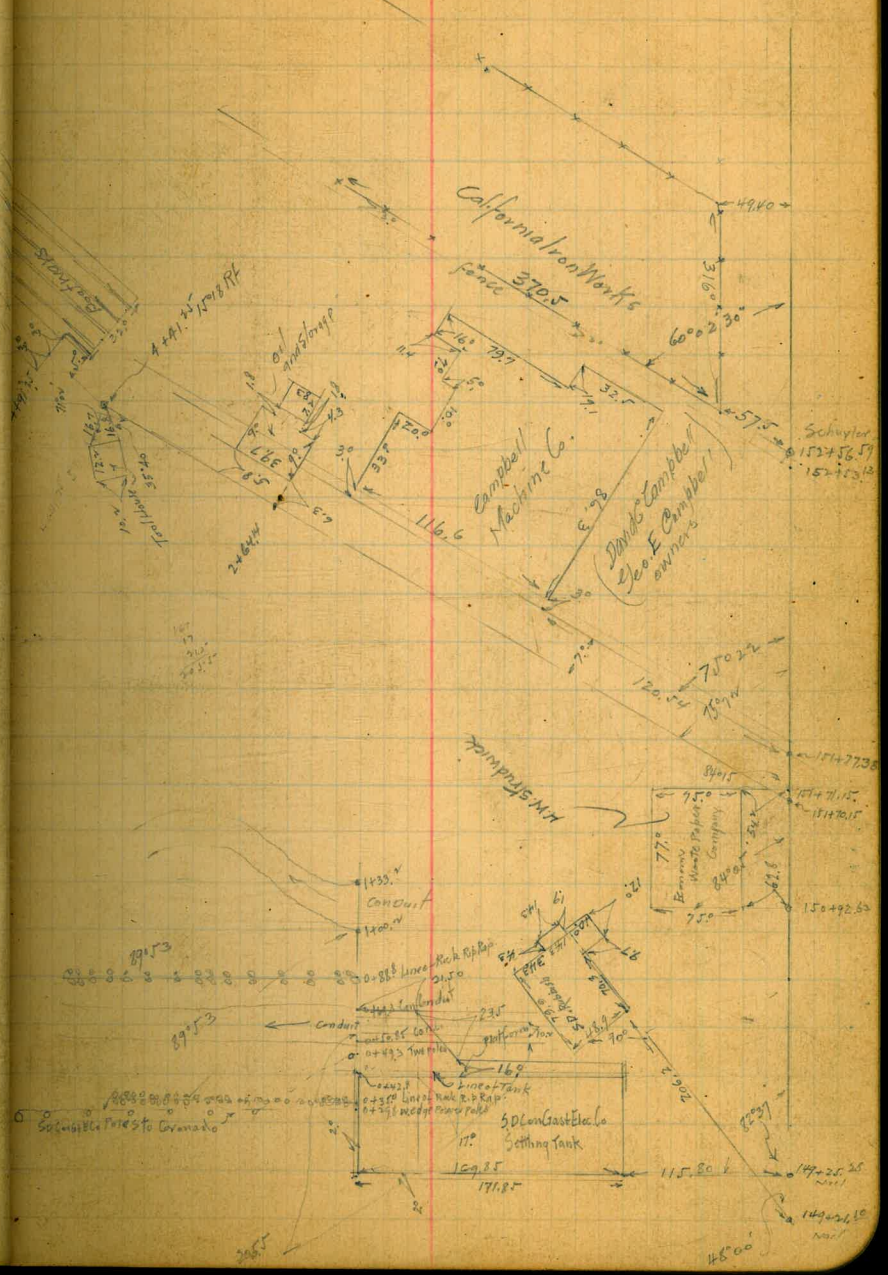
28



155-17-86

16.4
 10.4
 28.00 16.8
 71.00 16.7

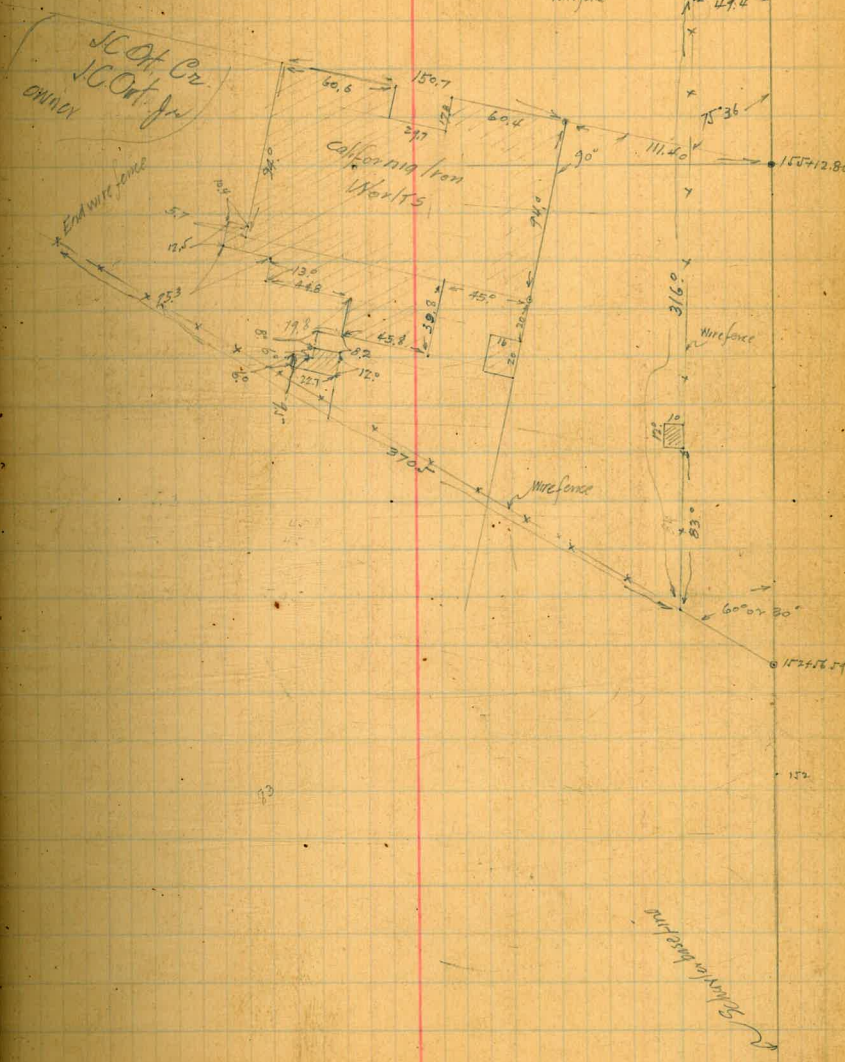
S.D. Const Gas + Elec Co.



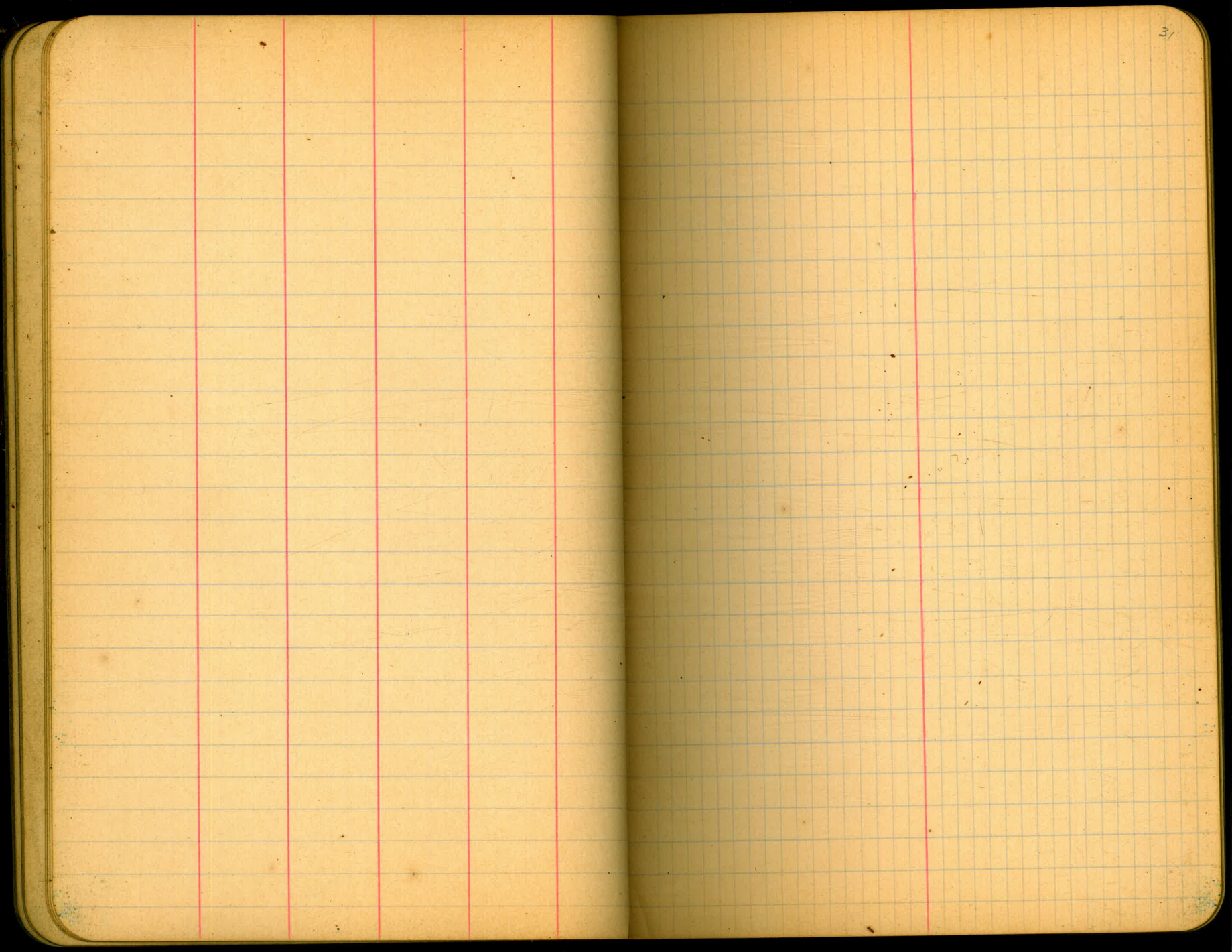
Williams
Moore Nov 1 1920
Brown

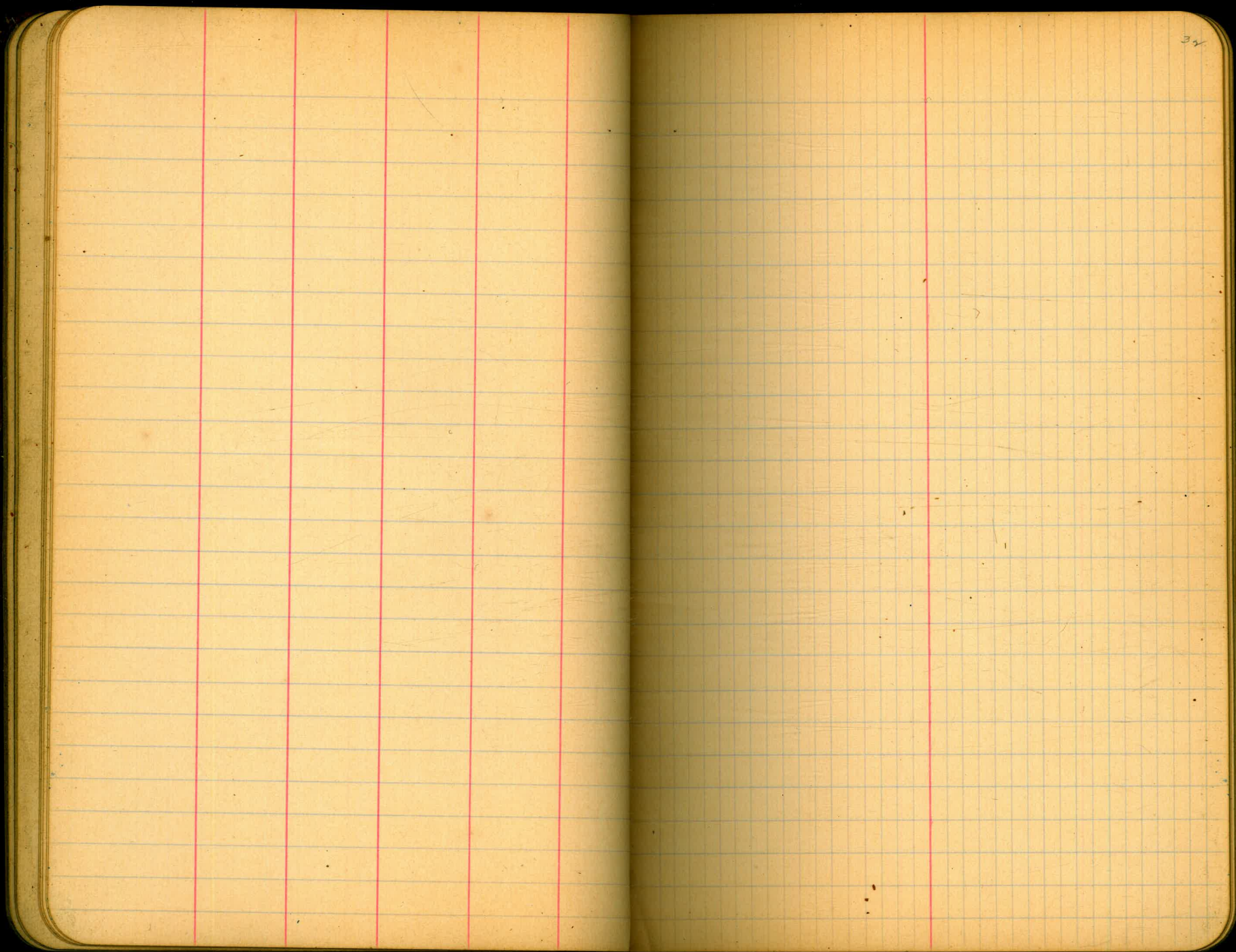
150.7 60.4
90.1 39.7
60.6 90.1

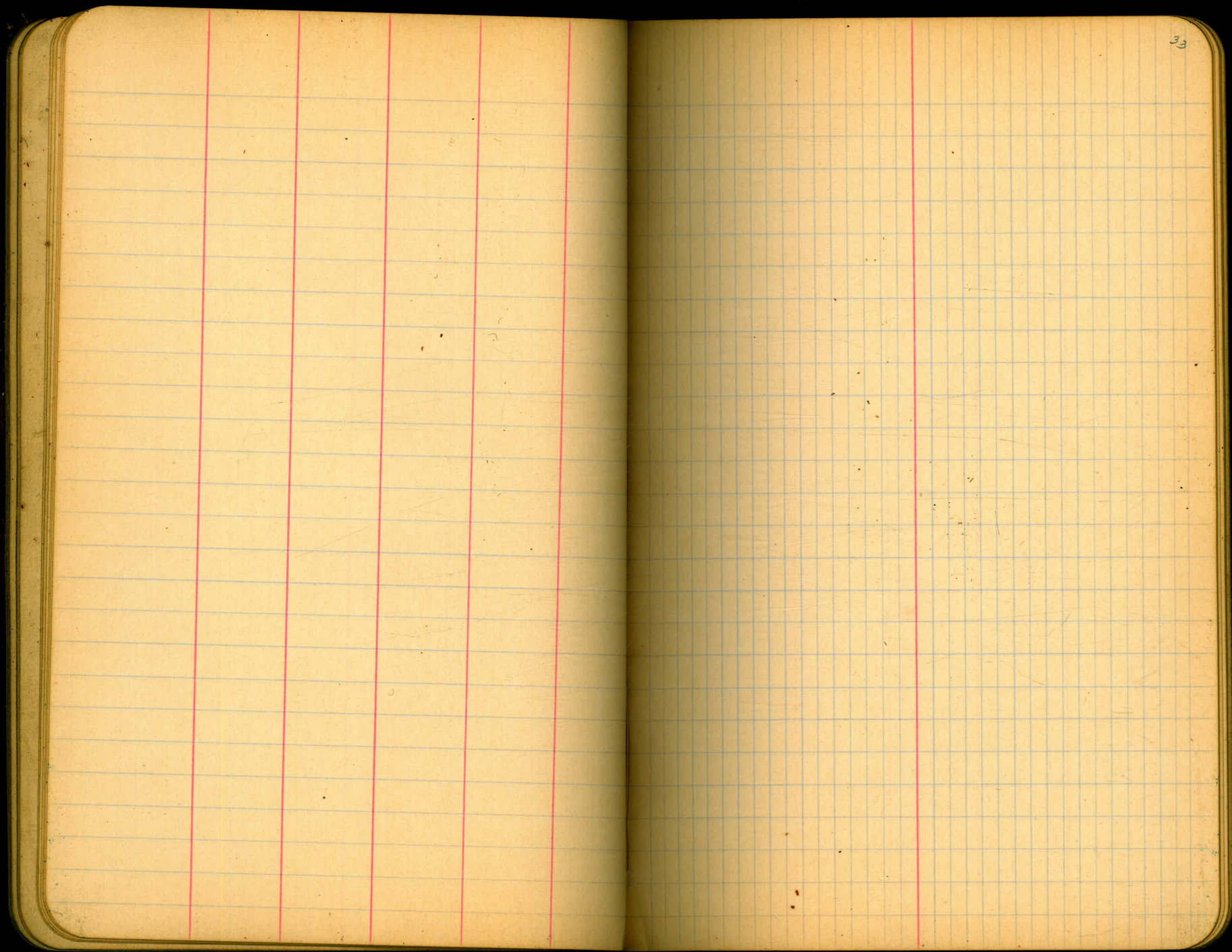
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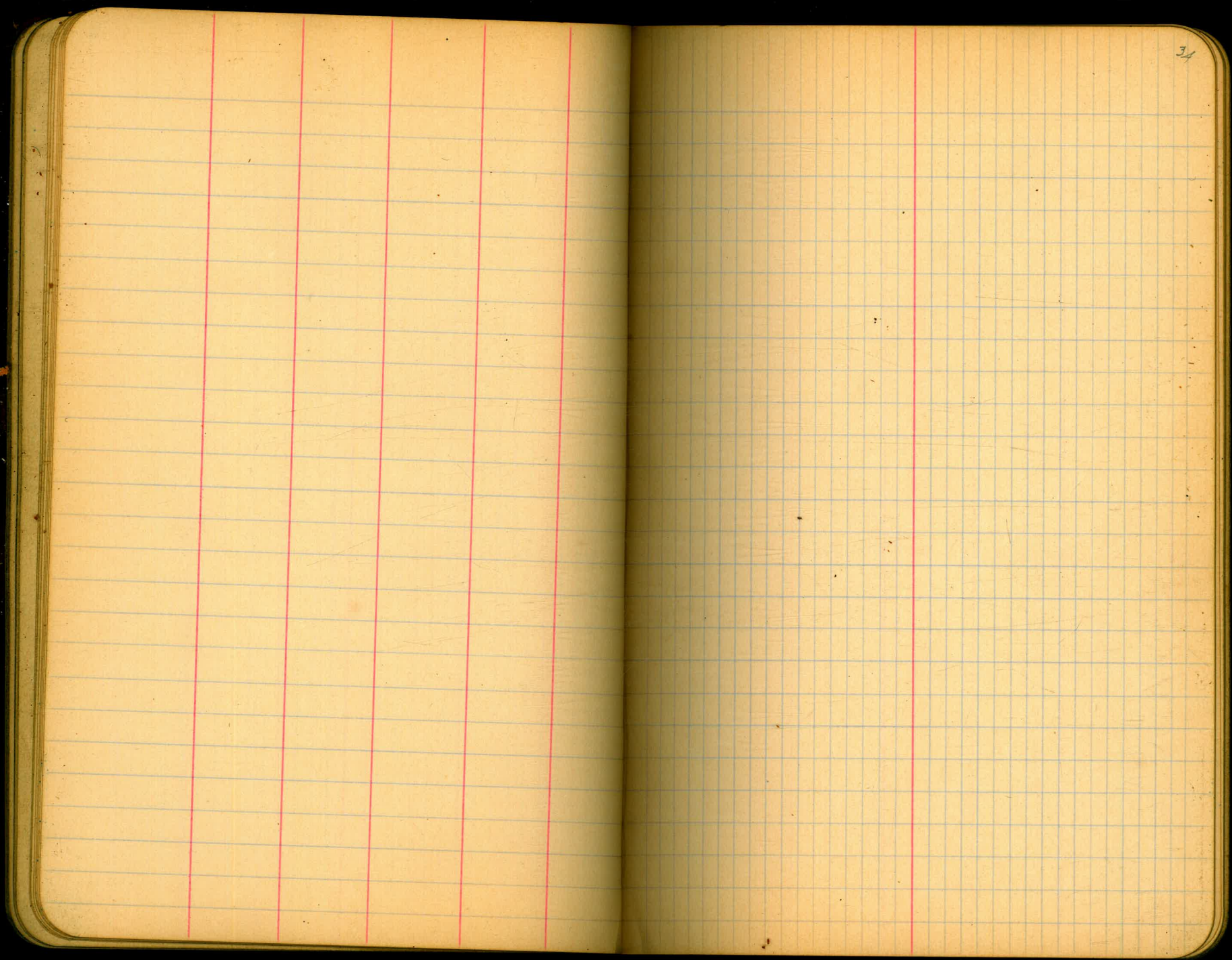


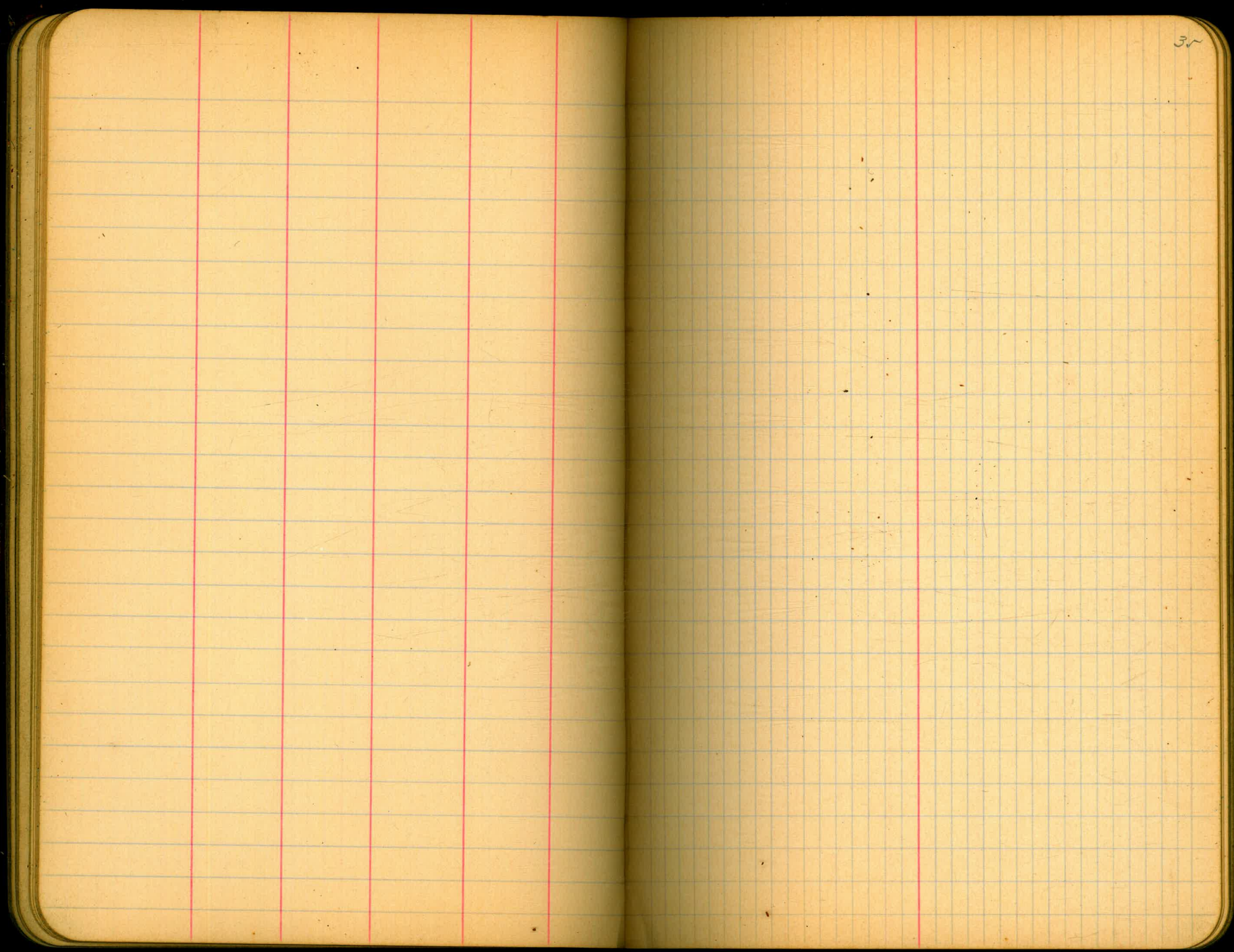
© 1947



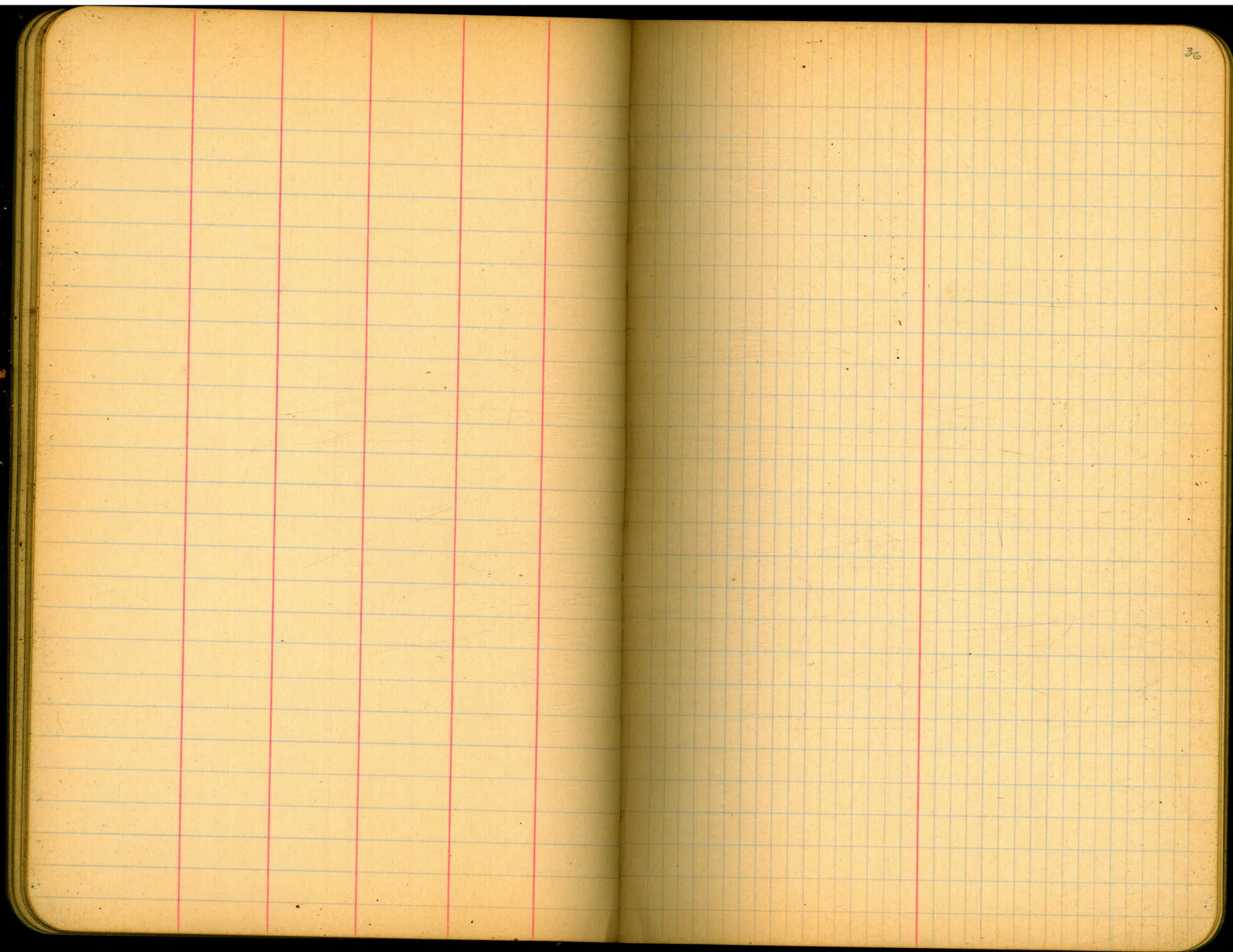


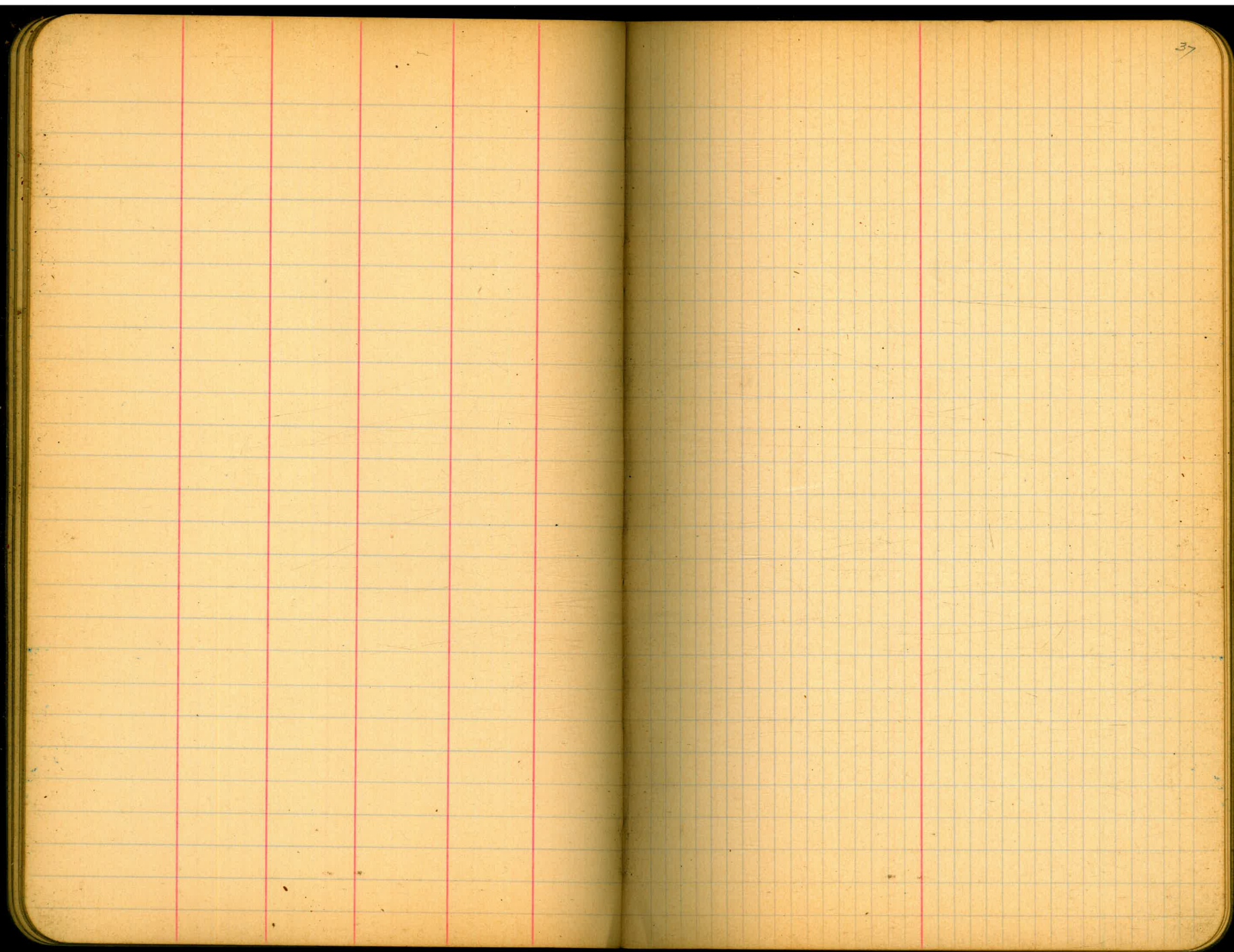


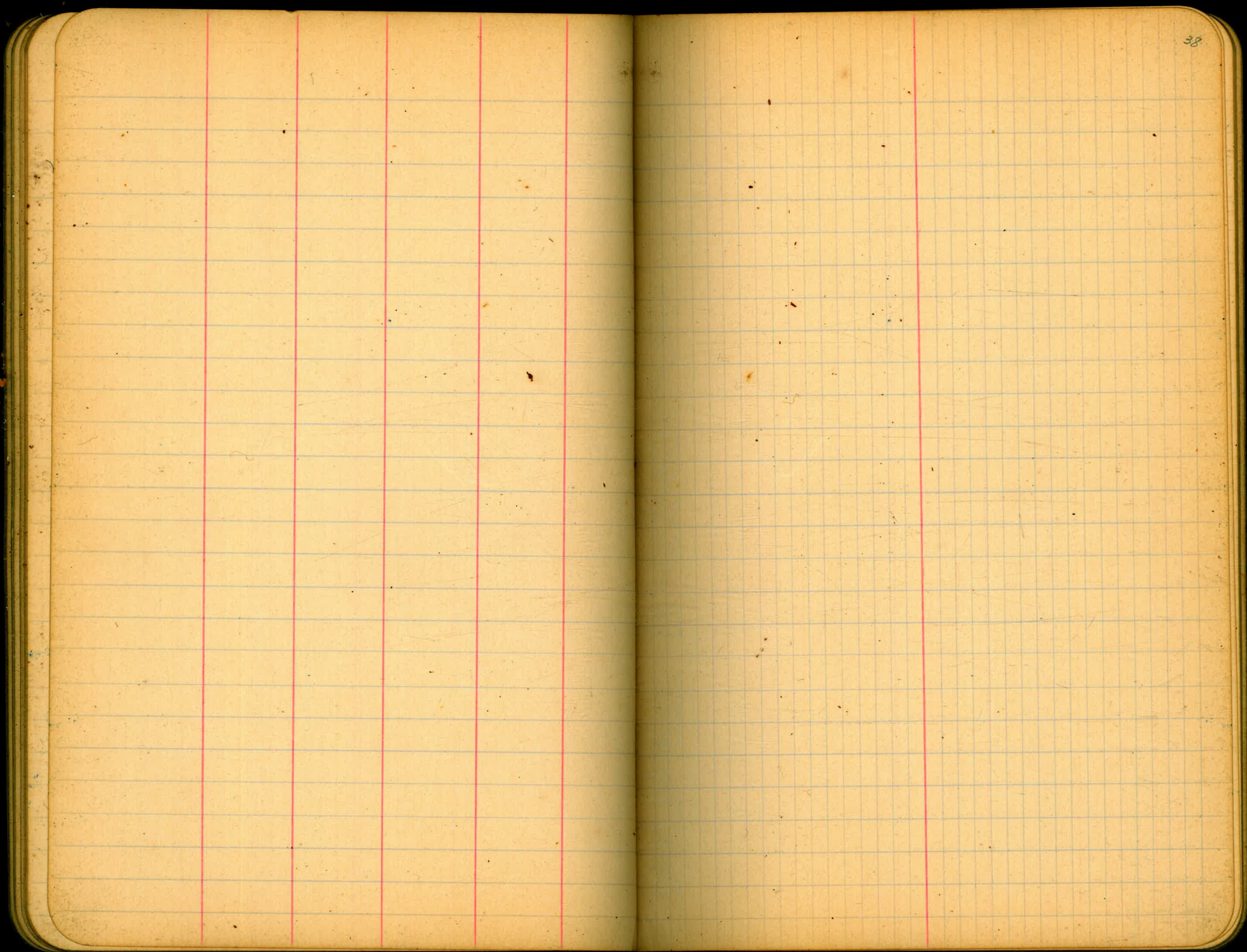


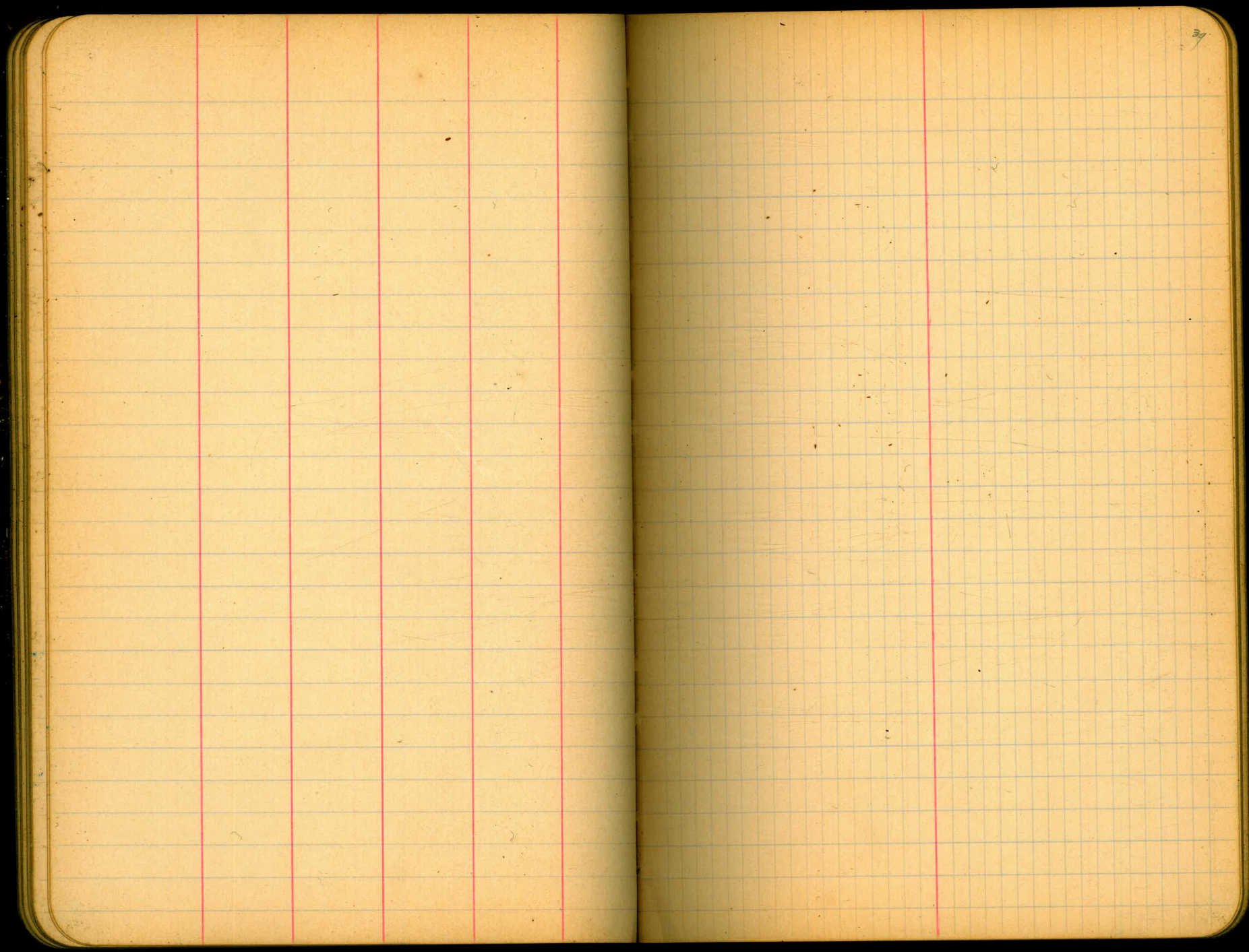


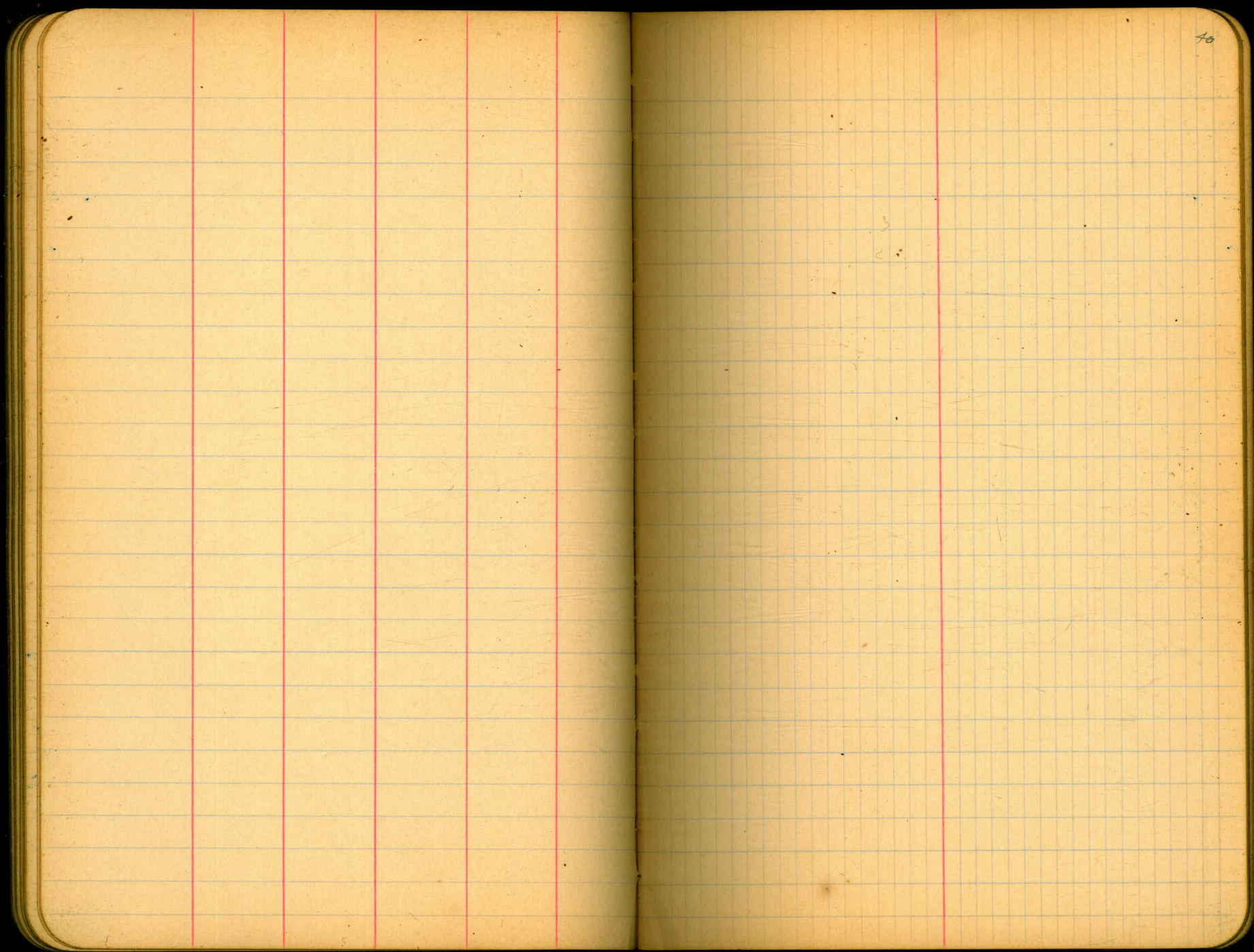
32



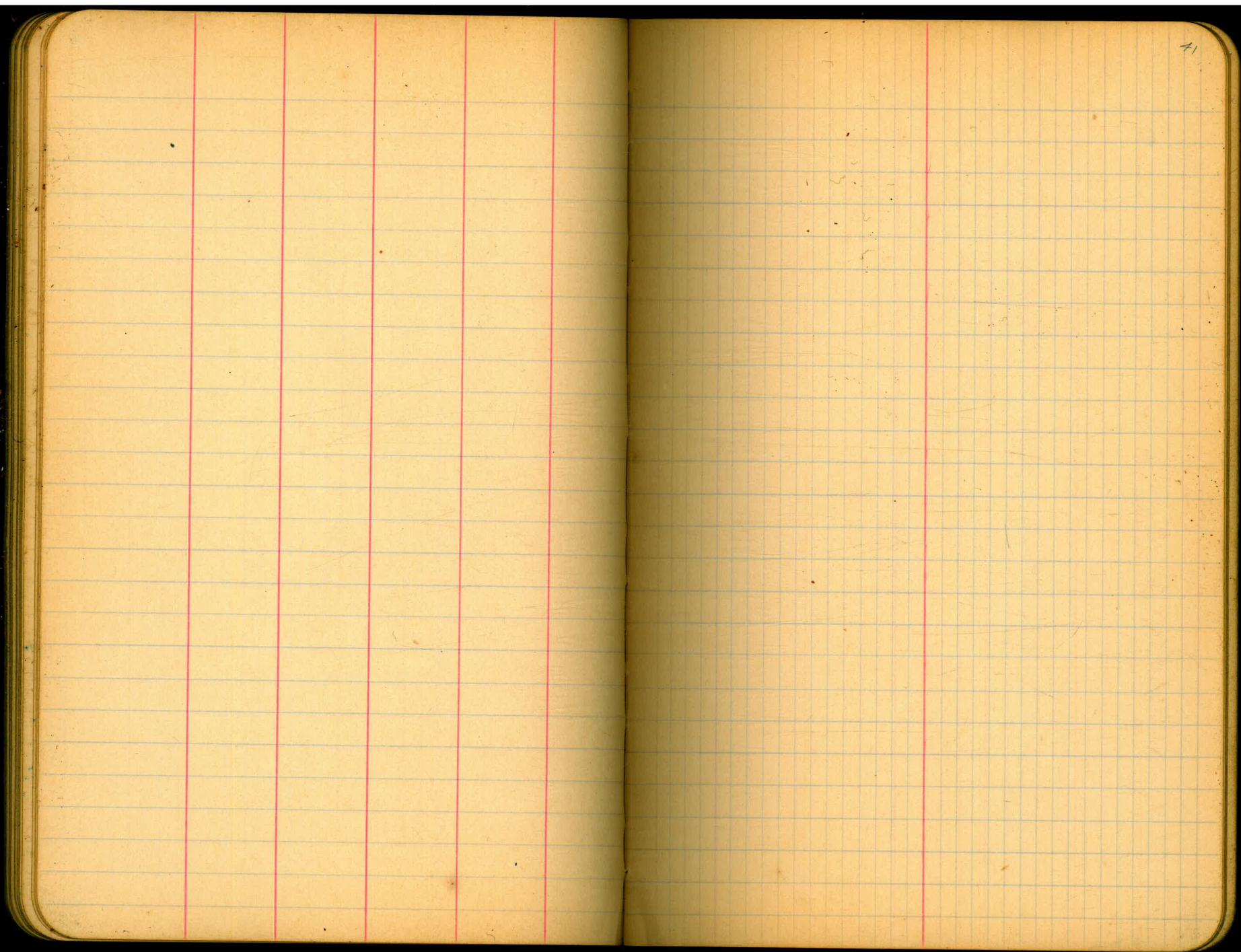


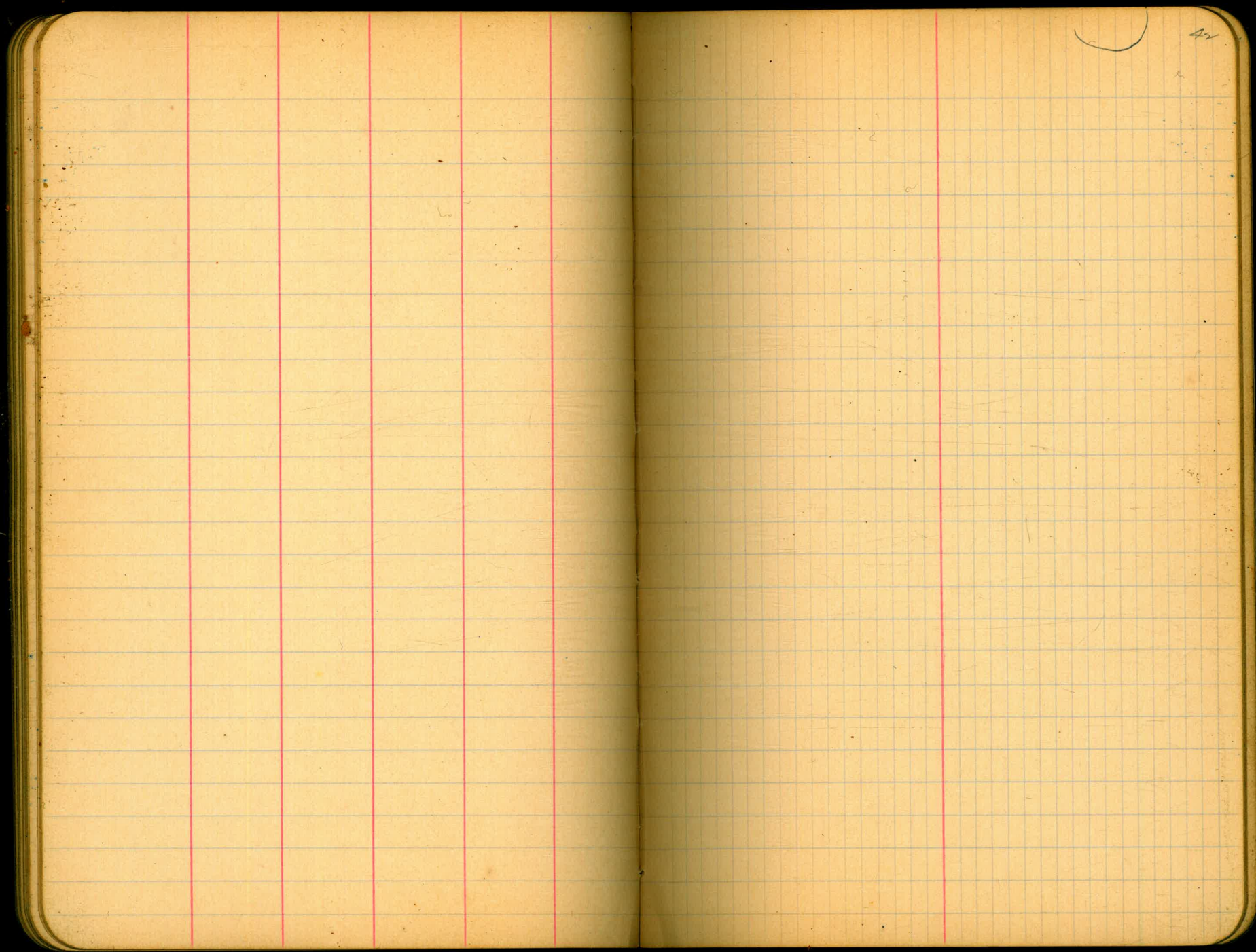


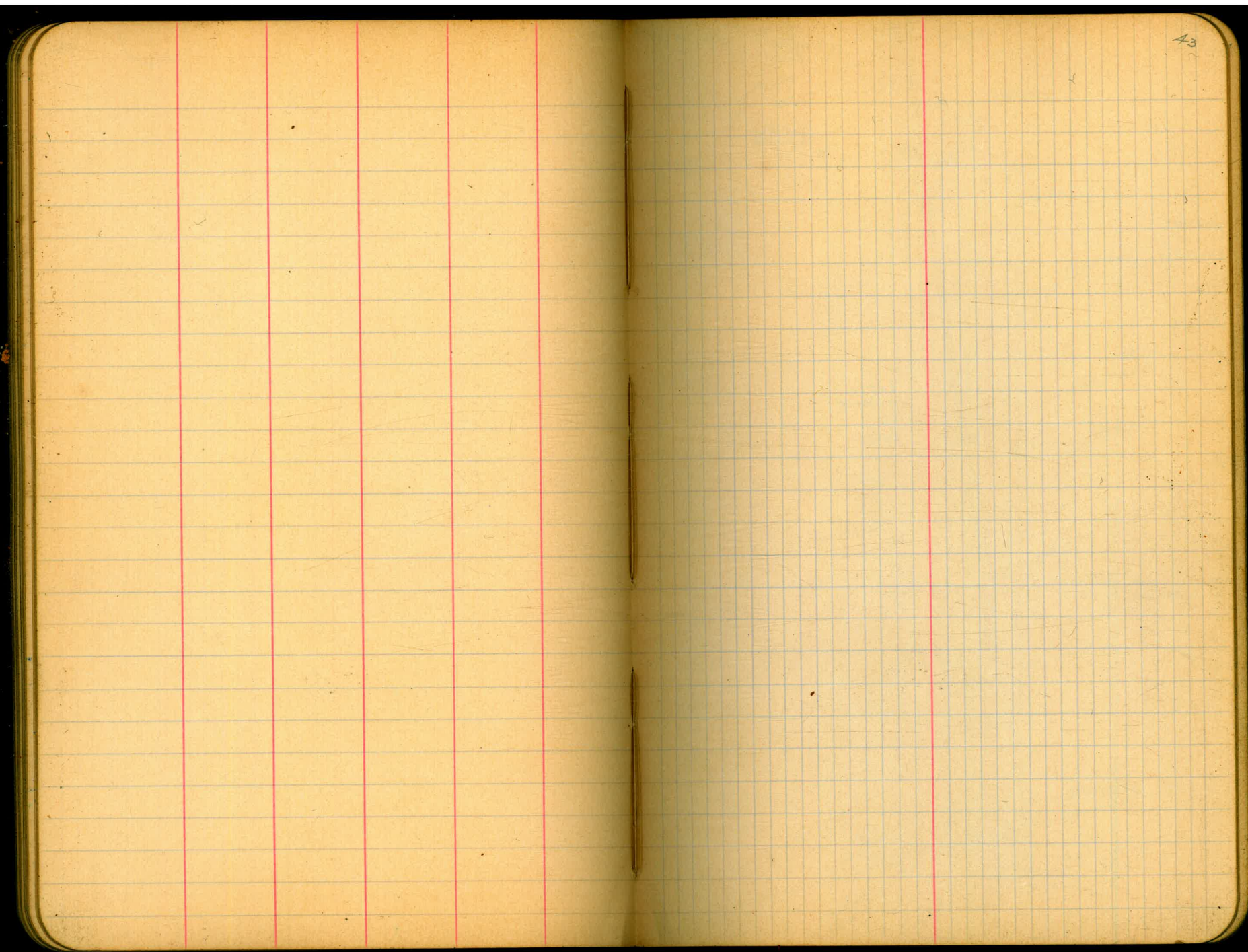




40







43

Williams
Moore Feb. 23. 1921
Darval

44

Δ-2°32'

ST=167.09

363.90

78.4 frog

146.0 from EC.

Δ=2°32'
ST=167.09
R=
Ex=1.41

S.P. 363.9
Mainline
146.0 P.T.
Switch Tracks
Continues East
EC.

frog 78.4

S.P.

34.4

78.4 frog.

frog

76.5 SP.

63.4 frog

42.7 S.P.

63.4 frog

Found 2"x2" Hub

PC.

9.05

3+46.00 to BC. Hub from
0+00 on Transit
line

72.0

13.10
12.10
14.85
15.4
15.17

Edge of F. 11

13.00
13.05

0+00 Transit
line

26.35
15.13
15.13
14.90

Survey of McCormack Lumber Co. Wye 2/15/21

Morre Dorval

East Spur of Wye

to tangent	18° 11' Lt.
ABS. on 3+00	29° 06'
4+50	24° 45'
4+00	19° 52' 30"
3+50	14° 55' 30"
ABS. on 2+00 3+00	28° 38'
Point of Yard switch	2+63.20 24° 48' 30"
2+50	23° 33'
ABS. on 2+00 2+00	14° 03'
1+50	9° 34' 30"
1+00	5° 35'
0+50	2° 37'

324.93 = 0+00 ES. 14' S. Main Line S.F.

East Yard Spur

Main Line 1+432	6° 06' Lt. = 186' on Main Line S.F.
1+06.25	5° 03' Lt.
P.R.C. 0+88	5° 03' Lt.
0+34.2	5° 52' Lt.

Point Switch 263.20 = 0+00 East yard spur

ABS. on 2+00

Round House Spur

To door of Round House	1+12	11° 50' Rt.
ABS. on EC P.R.C. 0+55	1+03	1° 41' Lt.
0+85	5° 18' Lt.	
0+70	7° 14' Lt.	
ABS. V. 00 on 0+00 P.R.C.	0+55	9° 55' Lt.
0+45	8° 24' Lt.	
0+30	5° 40' Lt.	
0+15	3° 11' Lt.	
P.C. 0+00 = P.L. 0+30		

West Yard Spur #1

170.20 =	1+52.20	18° 06' Lt.
1+13.25	19° 41' Lt.	
P.R.C. 0+74	20° 29' Lt.	
0+37	19° 48' Lt.	
0+00 = 313.13	ABS. point of Switch of Wye	

496.73

Frog

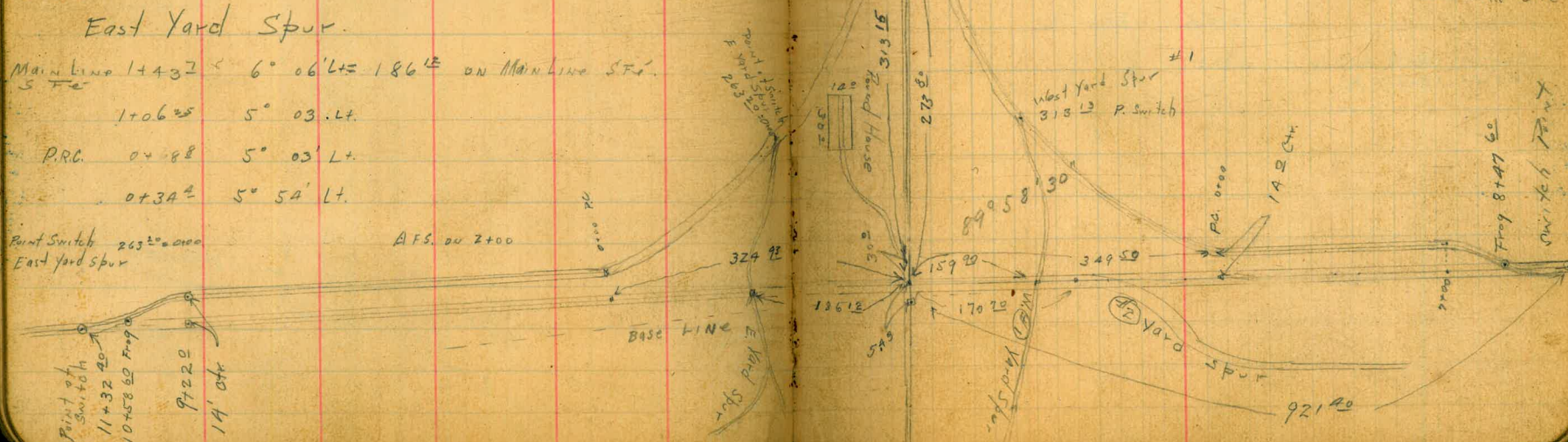
Point Switch 521.24

West Spur of Wye

to tangent 15° 45' Rt.

ABS. on 3+50	5+21.20	31° 35' 30"
5+00	29° 37'	
4+50	24° 51'	
4+00	19° 56'	
V. 00 ABS. on 2+00	3+50	32° 18'
Point Yard switch	3+13.20	28° 38'
3+00	27° 22'	
2+50	22° 09'	
V. 00 ABS. on 0+00	2+00	10° 25' 30"
1+50	6° 25'	
1+00	2° 58'	
0+50	0° 59'	

349.50 = 0+00 ES. 14' S. of Main Line S.F.



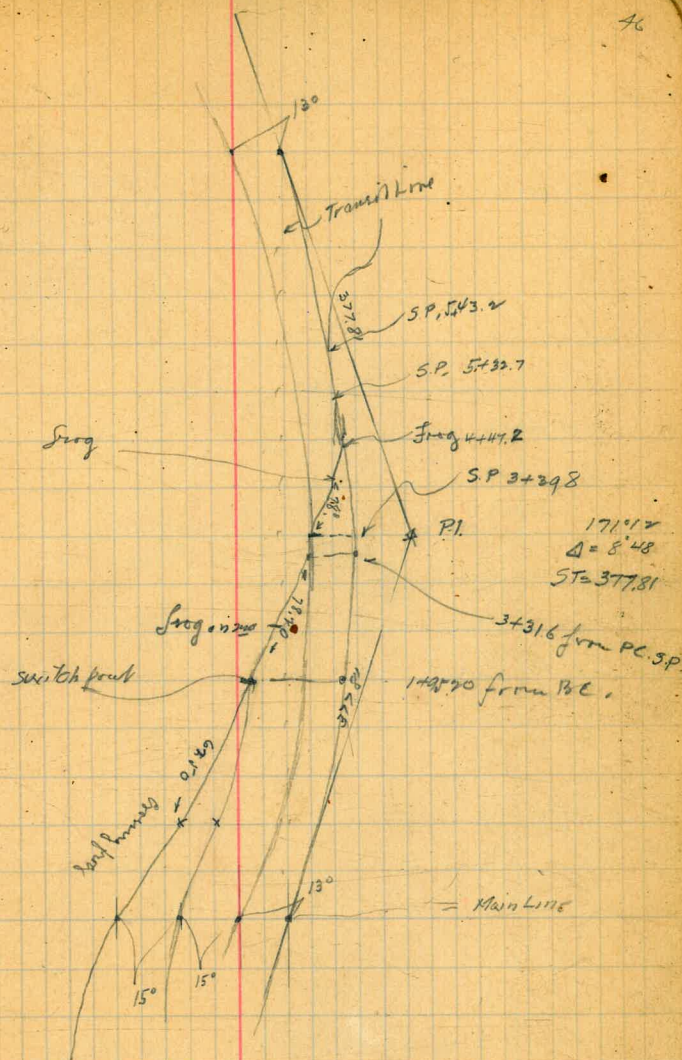
7+54.1 \checkmark	4°23'30"	17.50
7+36.6 \checkmark	4°18'30"	50.0
6+86.6 \checkmark	4°00'	50.3
6+36.3 \checkmark	3°41'	50.0
5+86.34	3°23'30"	50.0
5+36.3 \checkmark	3°03'	50.0
4+86.3 \checkmark	2°50'	50.0
4+36.3 \checkmark	2°37'	50.0
3+86.3 \checkmark	2°14'30"	50.0
3+36.24	1°57'30"	50.0
2+86.24	1°40'	50.0
2+36.24	1°22'30"	50.45
1+85.79	1°05'	49.6
1+36.19	0°49'	50.03
0+86.18	0°28'00"	49.56
0+36.6	0°17'30"	36.6

12+65.41 = 0+00 ON CURVE
87+87.52 S.O. + ANT. BC.

46.0 N° SP
135.5 S.O. S.P.

377.8

46

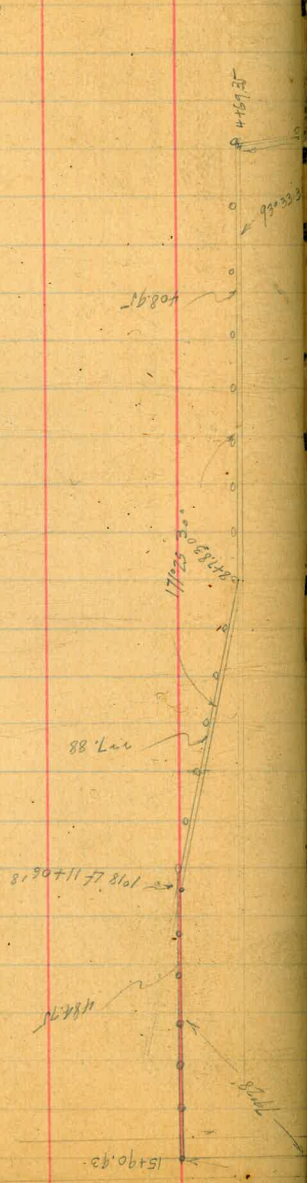


8°34'30"
 16°00'55"
 24°41'35"

105°28'30"
 96°26'30"
 10°18'00"
 100°35'00"
 90°54'30"
 384°37'30"
 24°41'35"

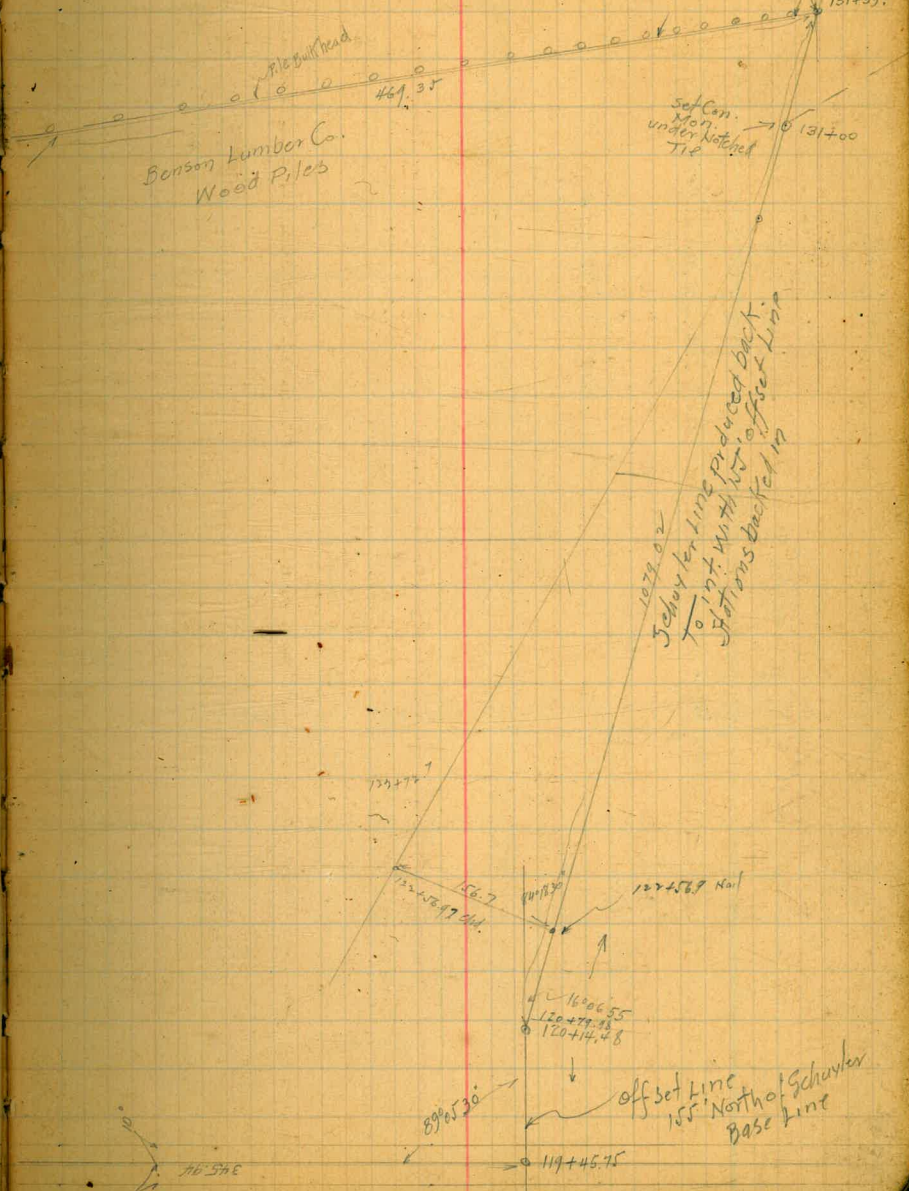
131+59.00
 120+77.16
 70+7.02

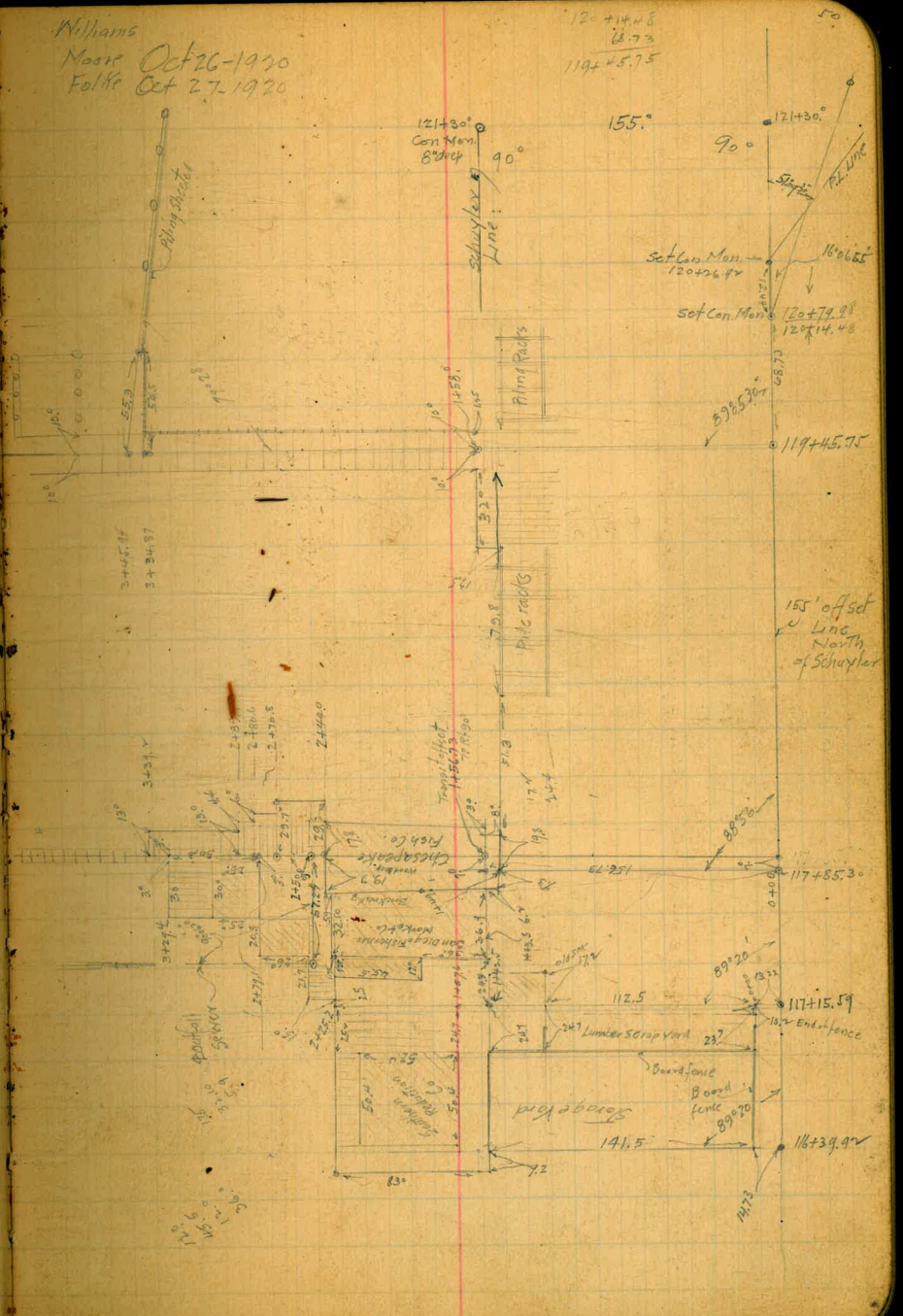
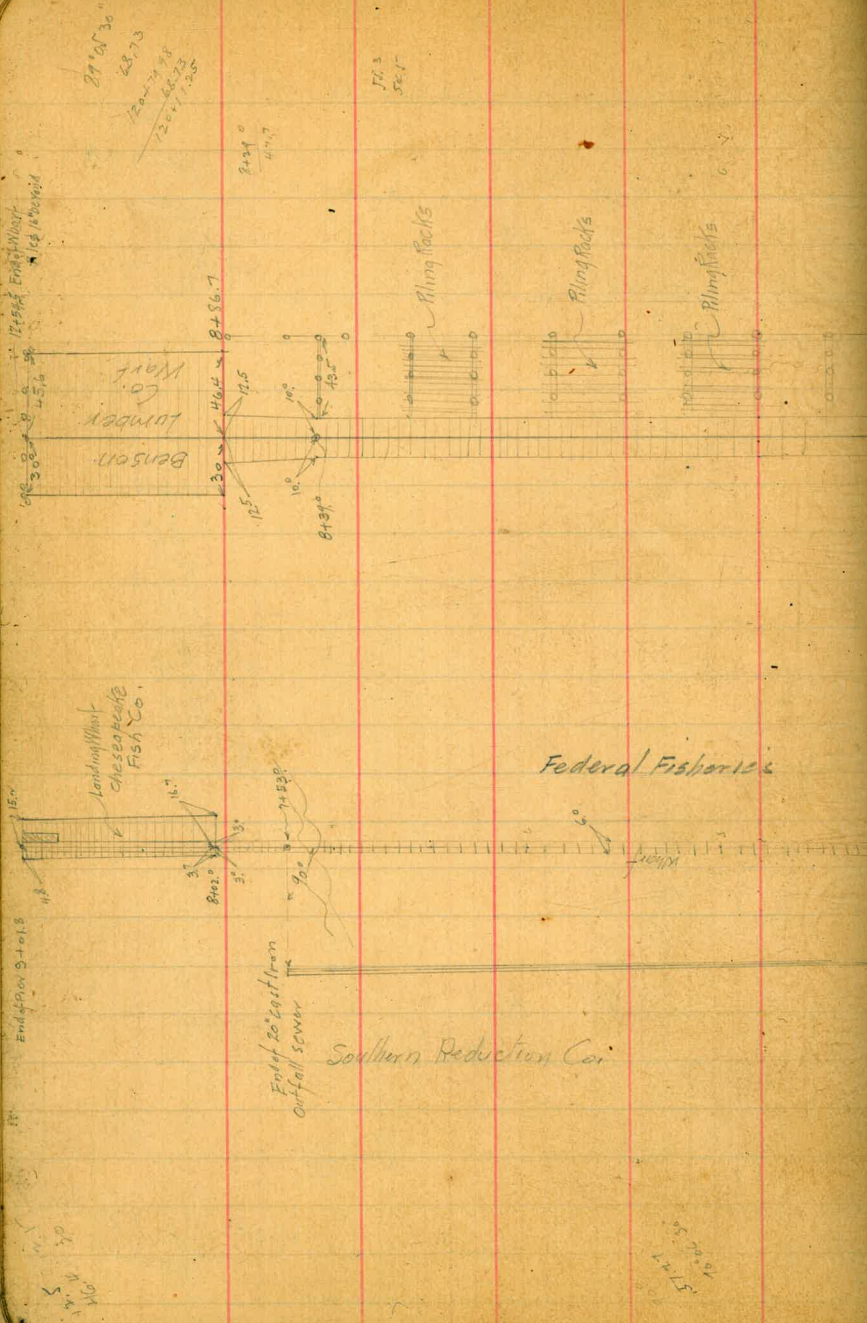
171°25'30"



Williams
 Moore Oct 27-1920
 Folke

Survey Bulkhead Line Benson's Mill



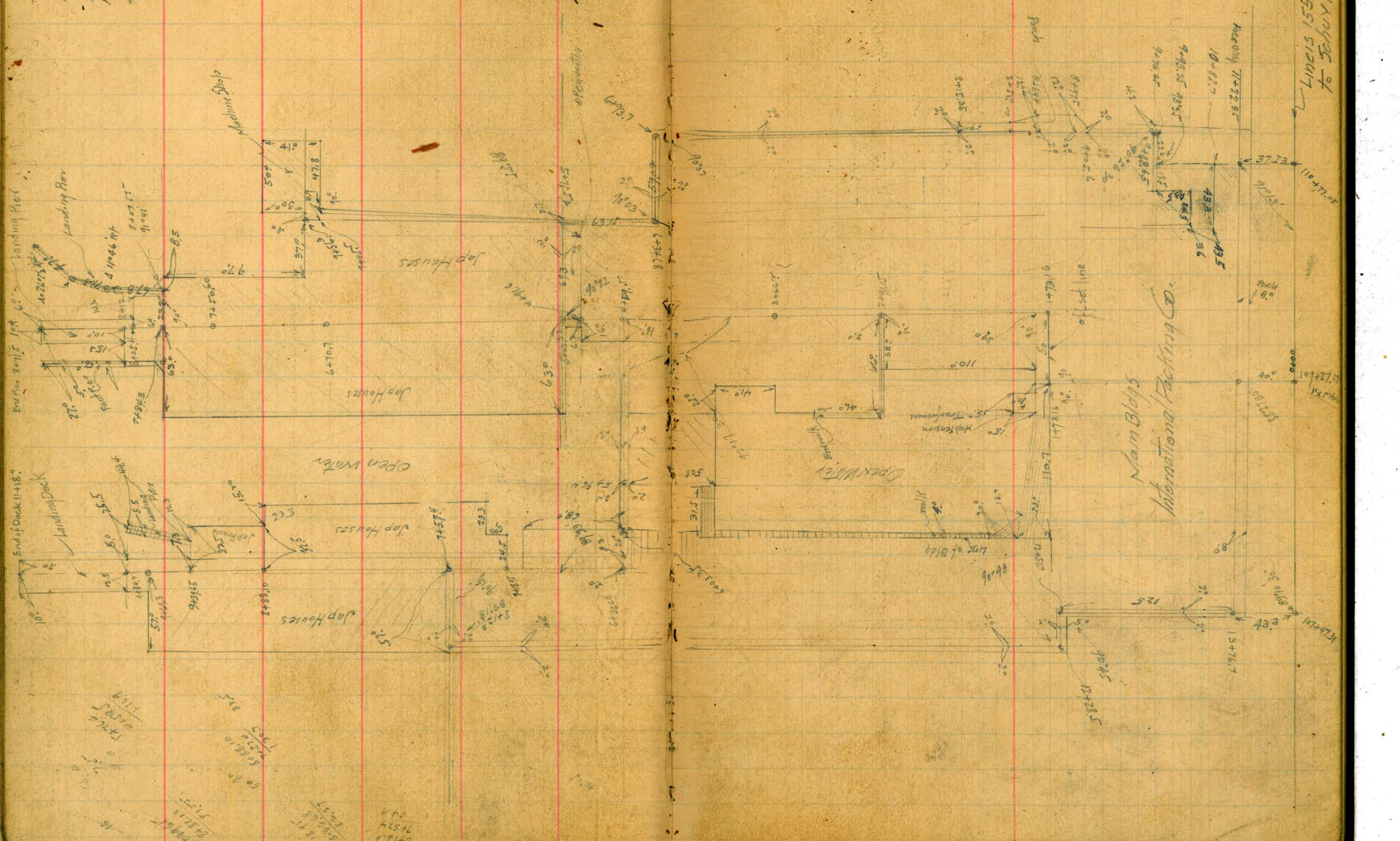


Williams
Moore Oct 23 1920 International Packing Co.
Folke Oct 25

770.61
24.6
795.21

47.80
502.23
577.03
63.15
699.68
77.02
6793.70

Line is 155° Parallel
to Schuyler Base Line



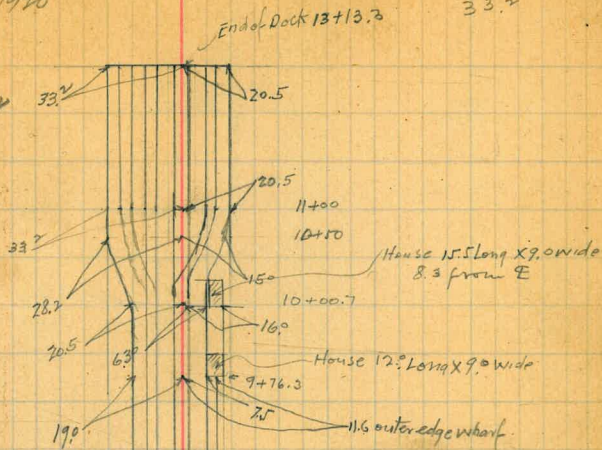
7-11-23
23.21
887.17
26.72 Rt 47°
1196 Rt 71.30
904.1 Lt 67.80

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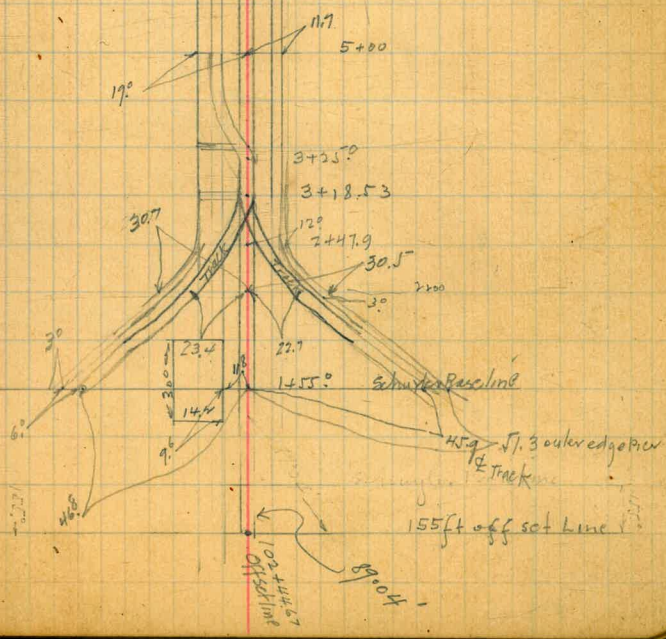
Williams
 Moore Oct 22-1910
 Folke

53.7
 20.1
 33.7

McCormick Lumber
 Company
 (see Page 45)



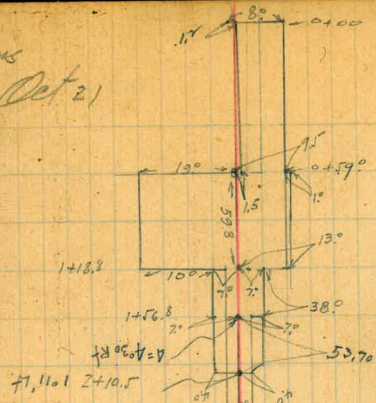
McCormick Lumber Co.
 Pier



77+00.00
6448
91+33.72

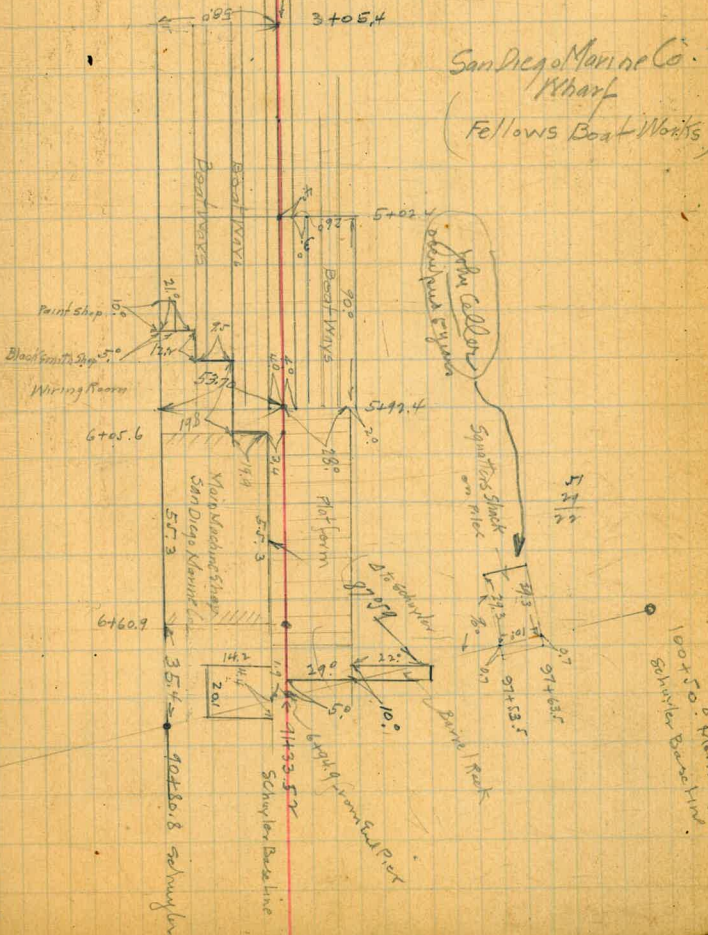
10
11

Williams
Moore Oct 21
Folke



59	
59.8	
32.0	11.88
156.8	
53.7	
210.5	
76.0	
305.4	
197.0	
502.4	
90.6	
592.4	
13.2	
605.6	
592.4	
68.5	
6.609	
34.0	
694.7	

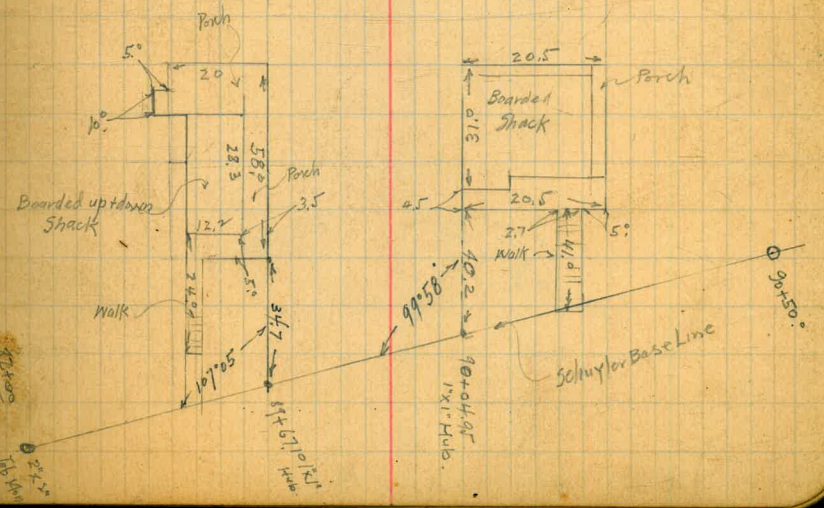
San Diego Marine Co.
Wharf
(Fellows Boat Works)



Williams
 Moore Oct 21-1970
 Folke

Emil Modern part of Sauspore St

M. A. Hall occupied one year Feb 1921
 down the building.



$81.6 + 18.0 = 99.6$
 99.58

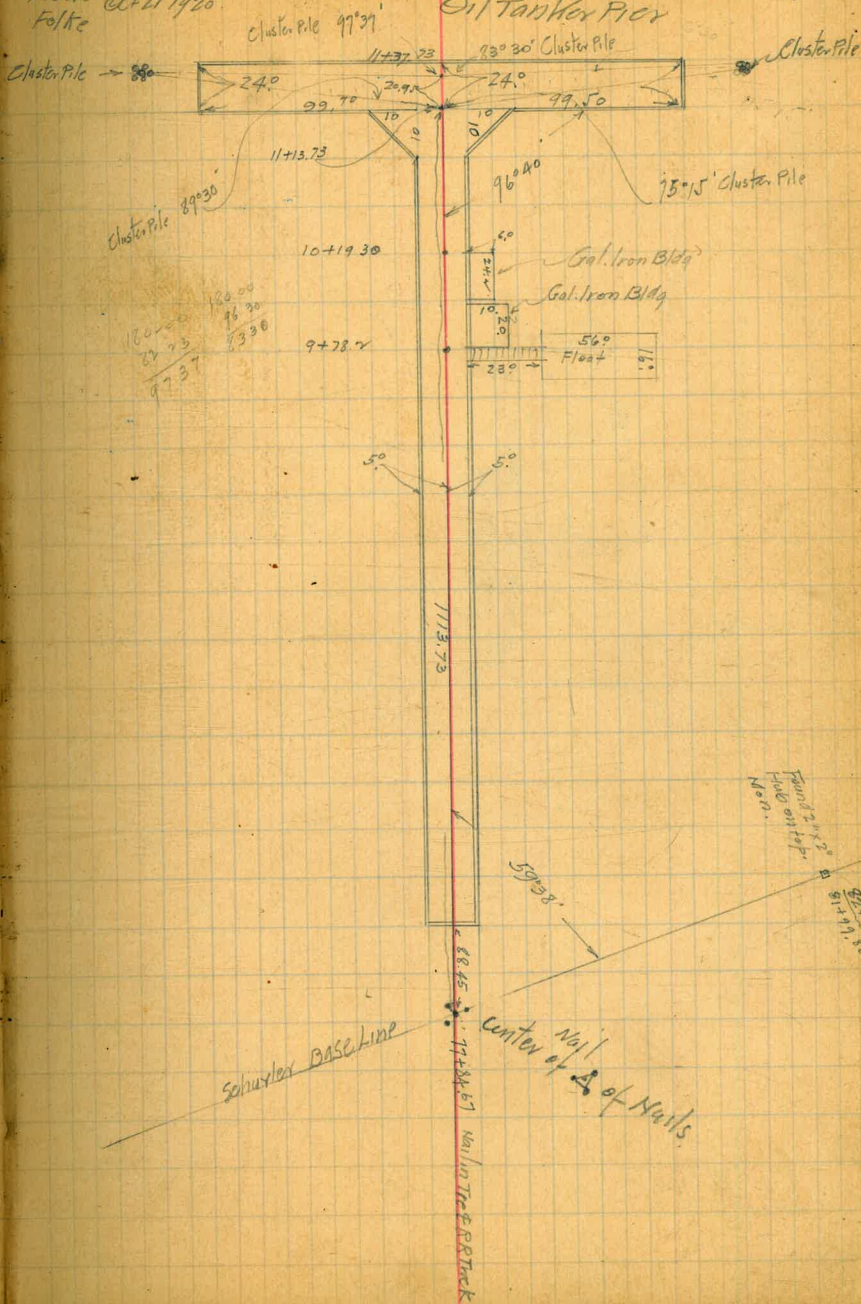
Williams
Morse Oct 21 1920
Folke

STANDARD OIL CO.

Oil Tanker Pier

57

15.73
31
50.73



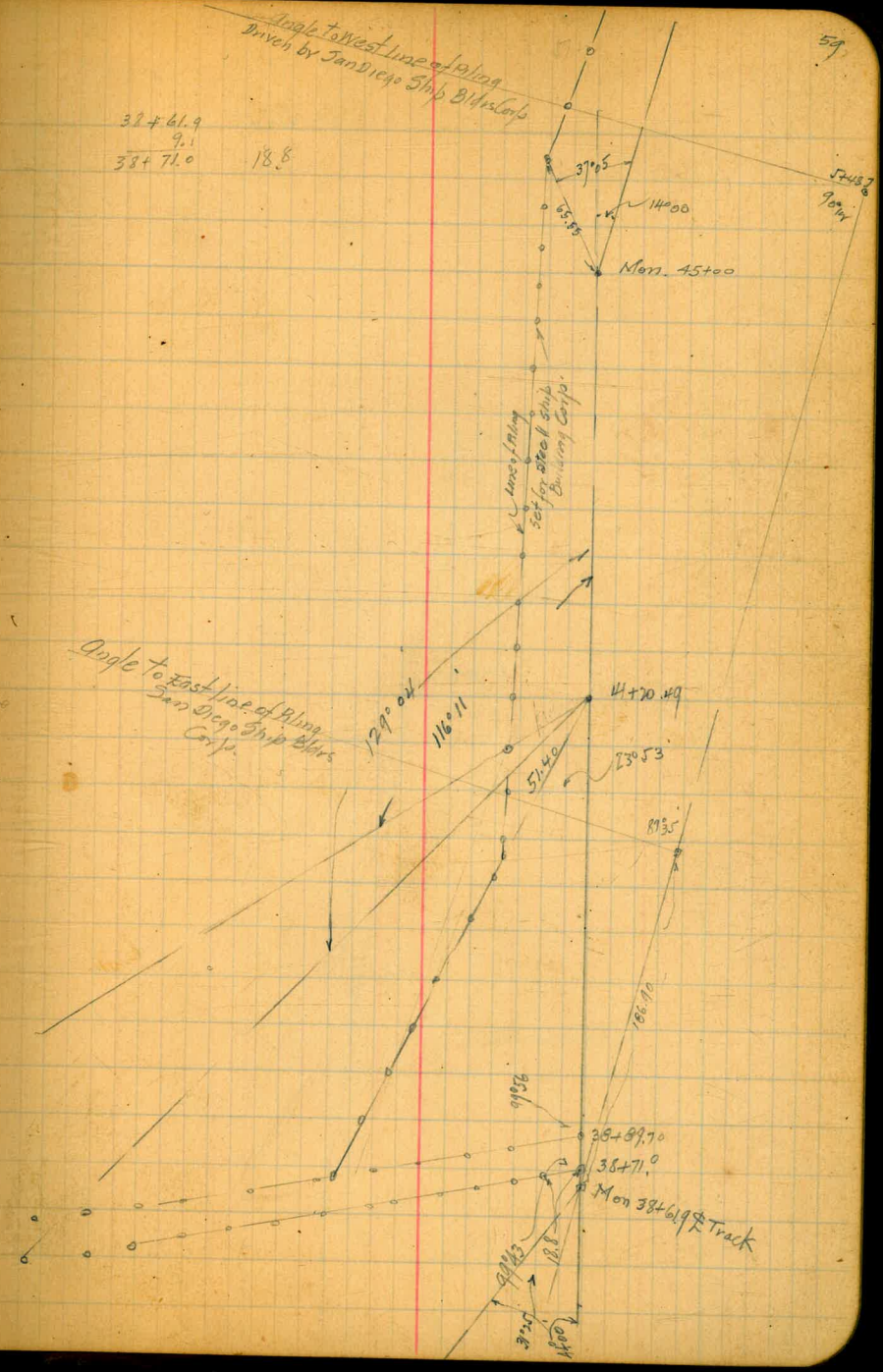
81048

39°40'

32+61.9
9.1
32+71.0 18.8

Scale to West line of 101.0
Drivch. by San Diego Ship Bldg Corp

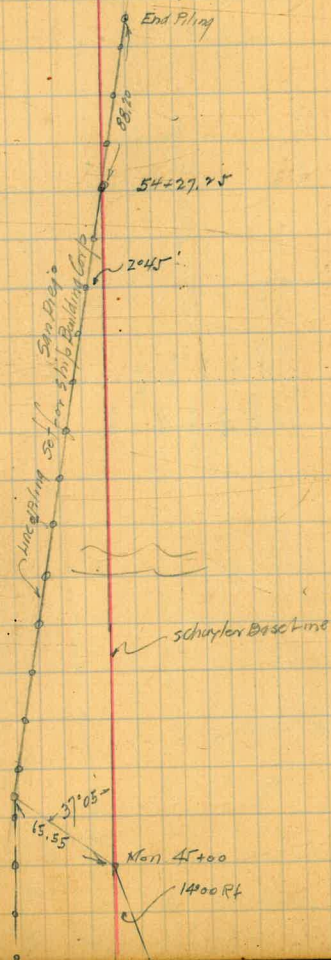
59



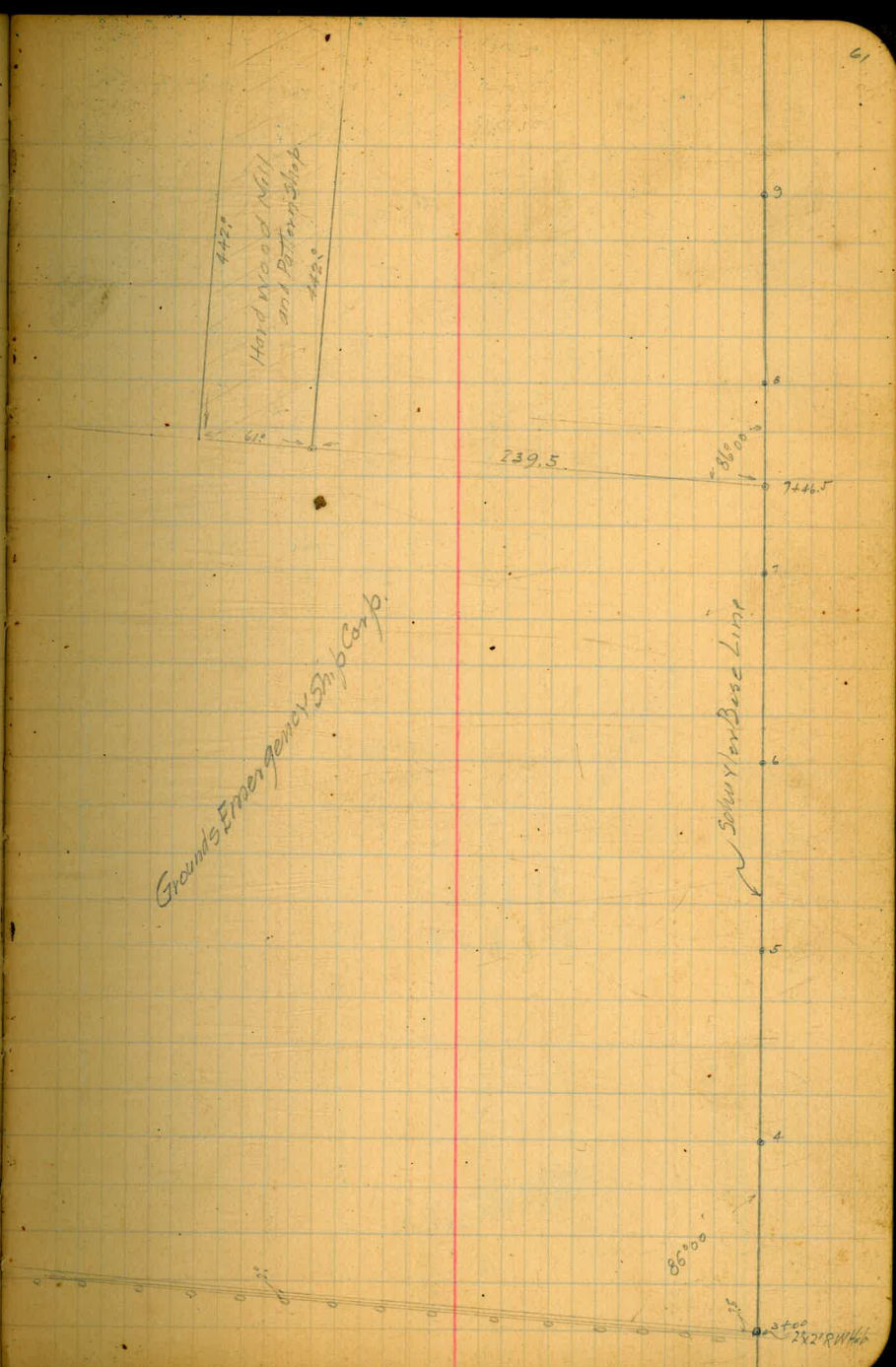
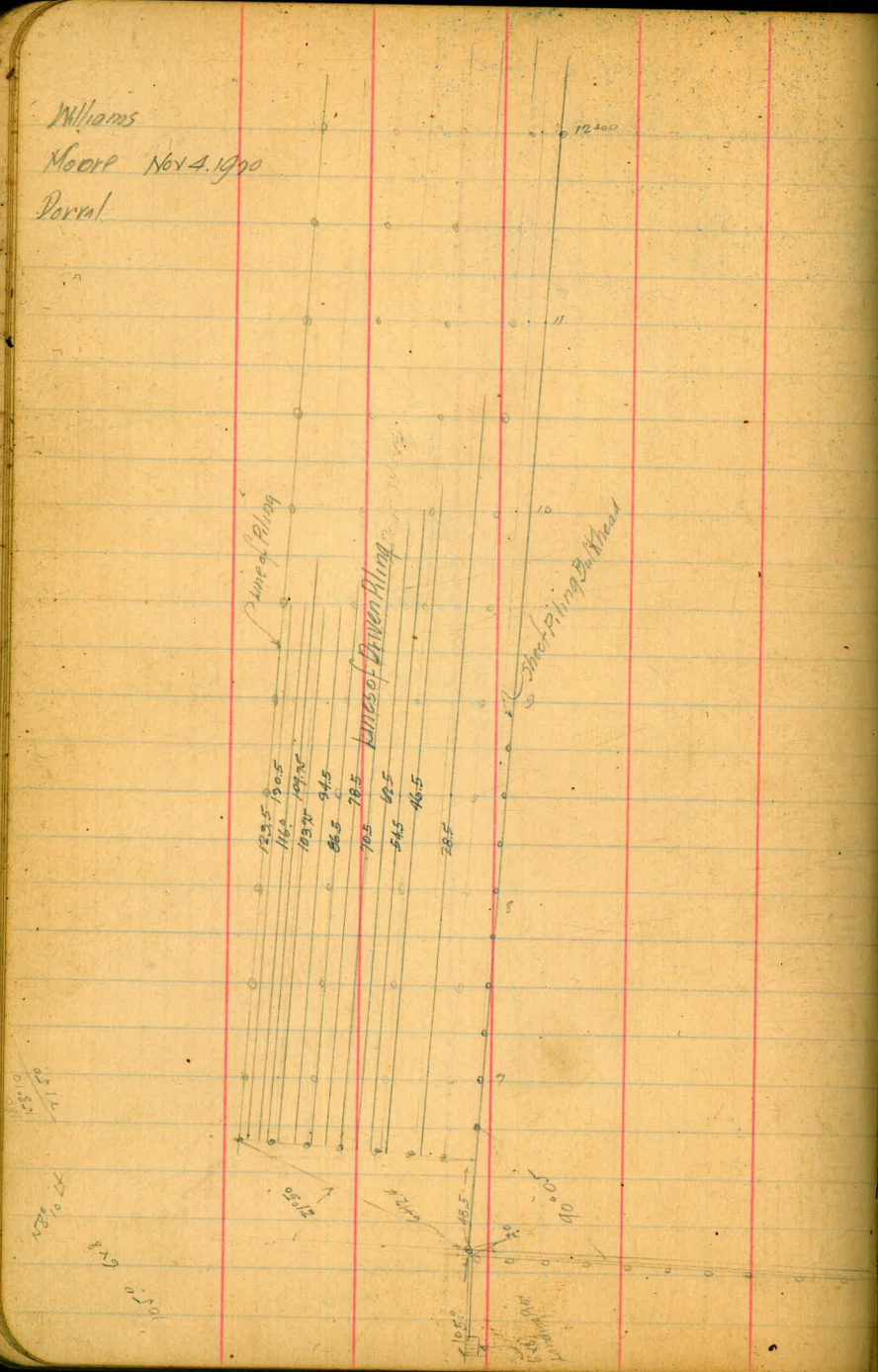
Angle to east line of Along
San Diego Ship Bldg
Corp.

Mon 38+61.9 Track

Williams
Moore Nov. 3 1920
J. R. Darval 435 1/2 Pitt St



Williams
 Moore Nov 4, 1990
 Parcel



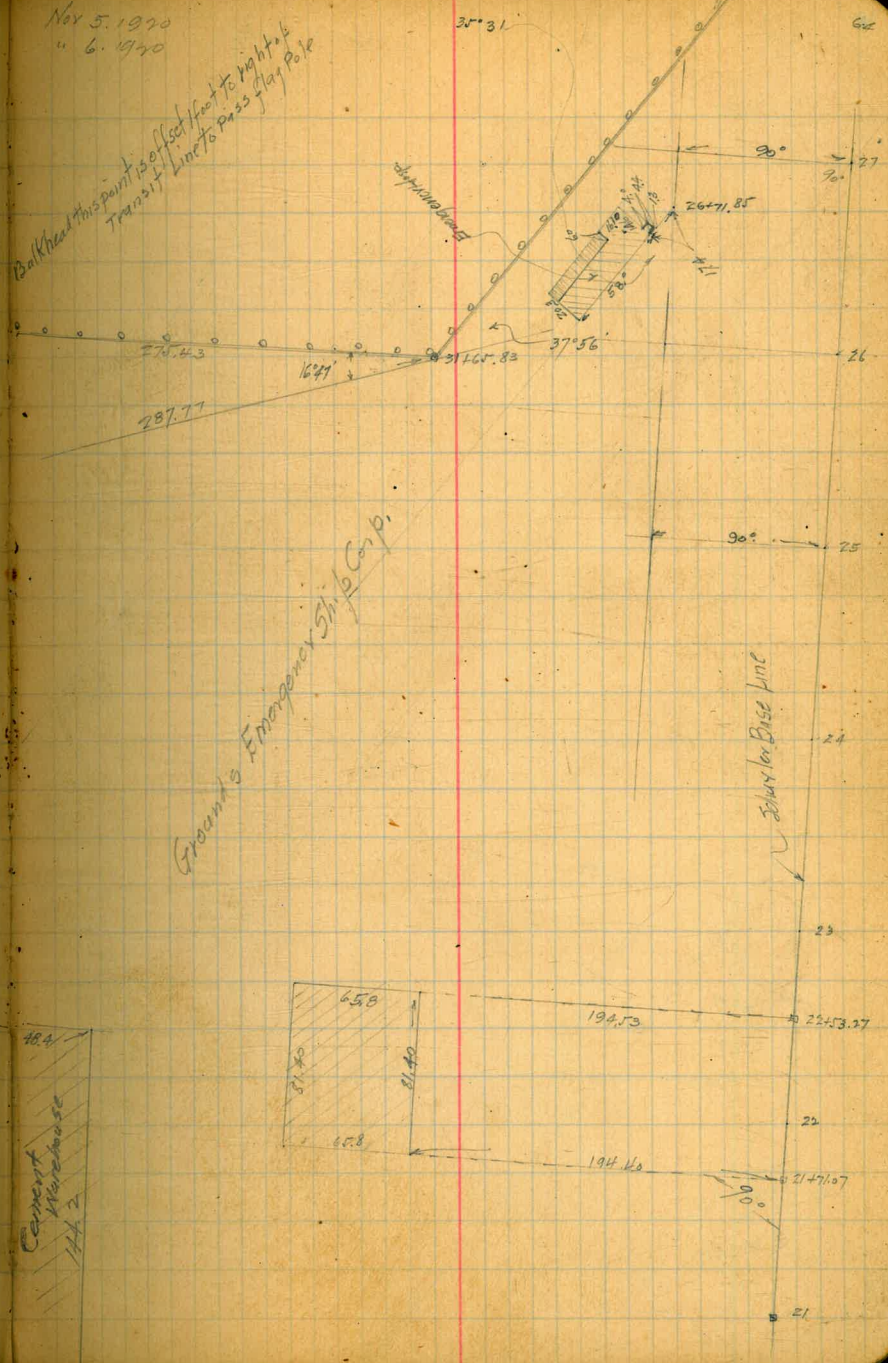
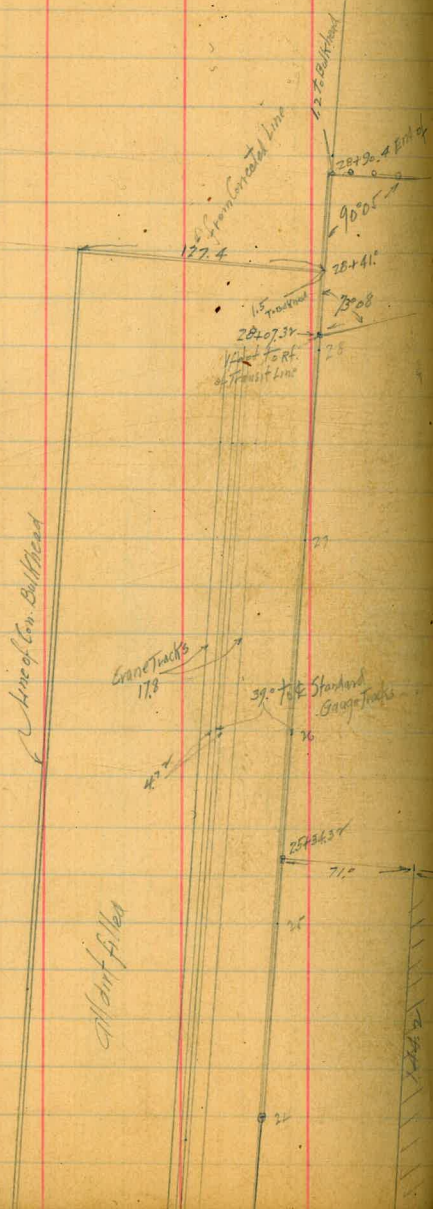
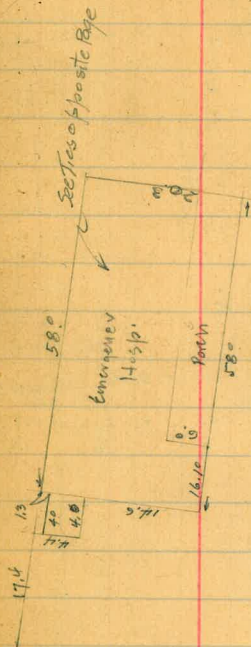
Williams
Moore
Dorval

Nov 5. 1970
" 6. 1970

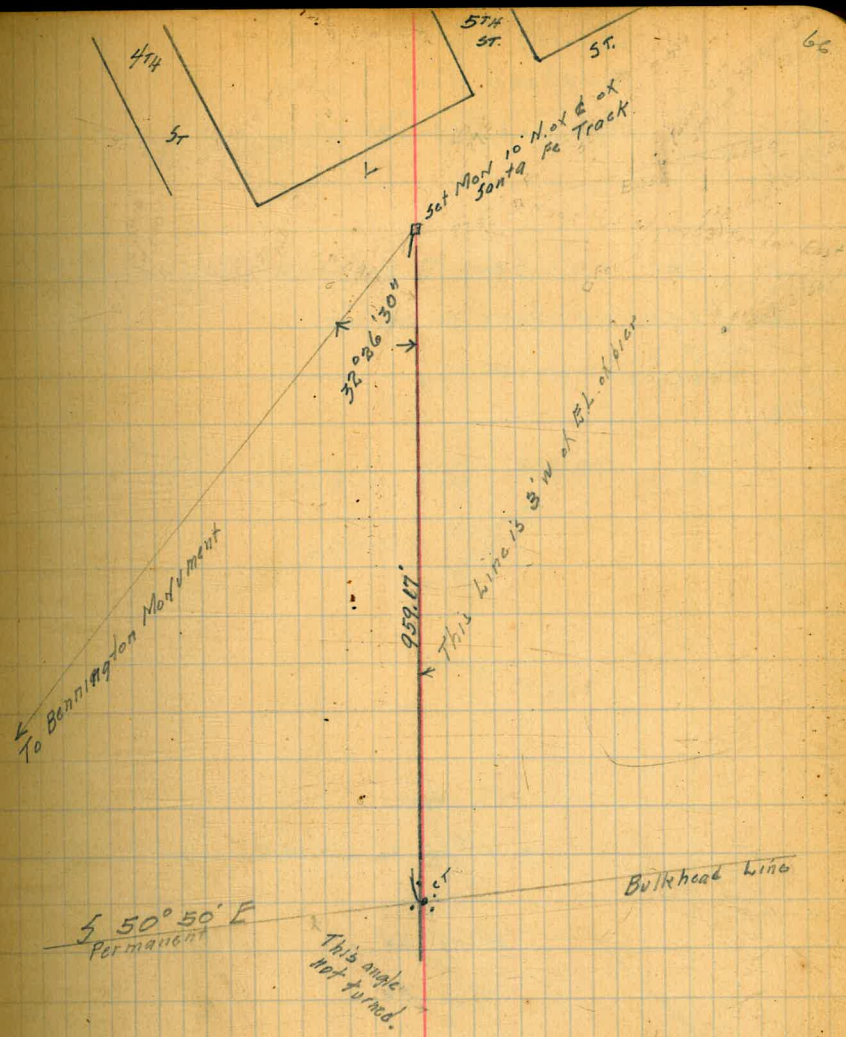
35° 31'

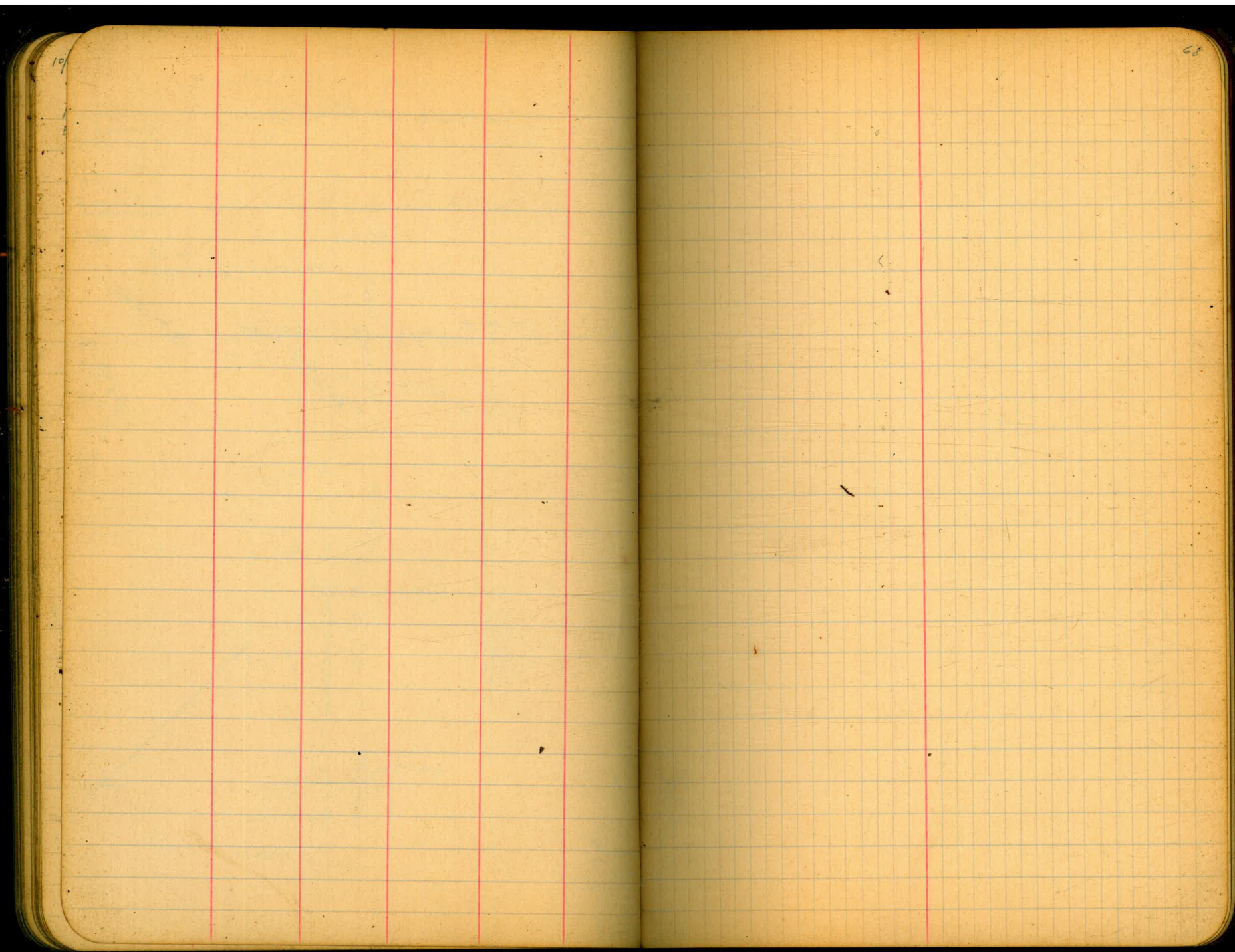
64

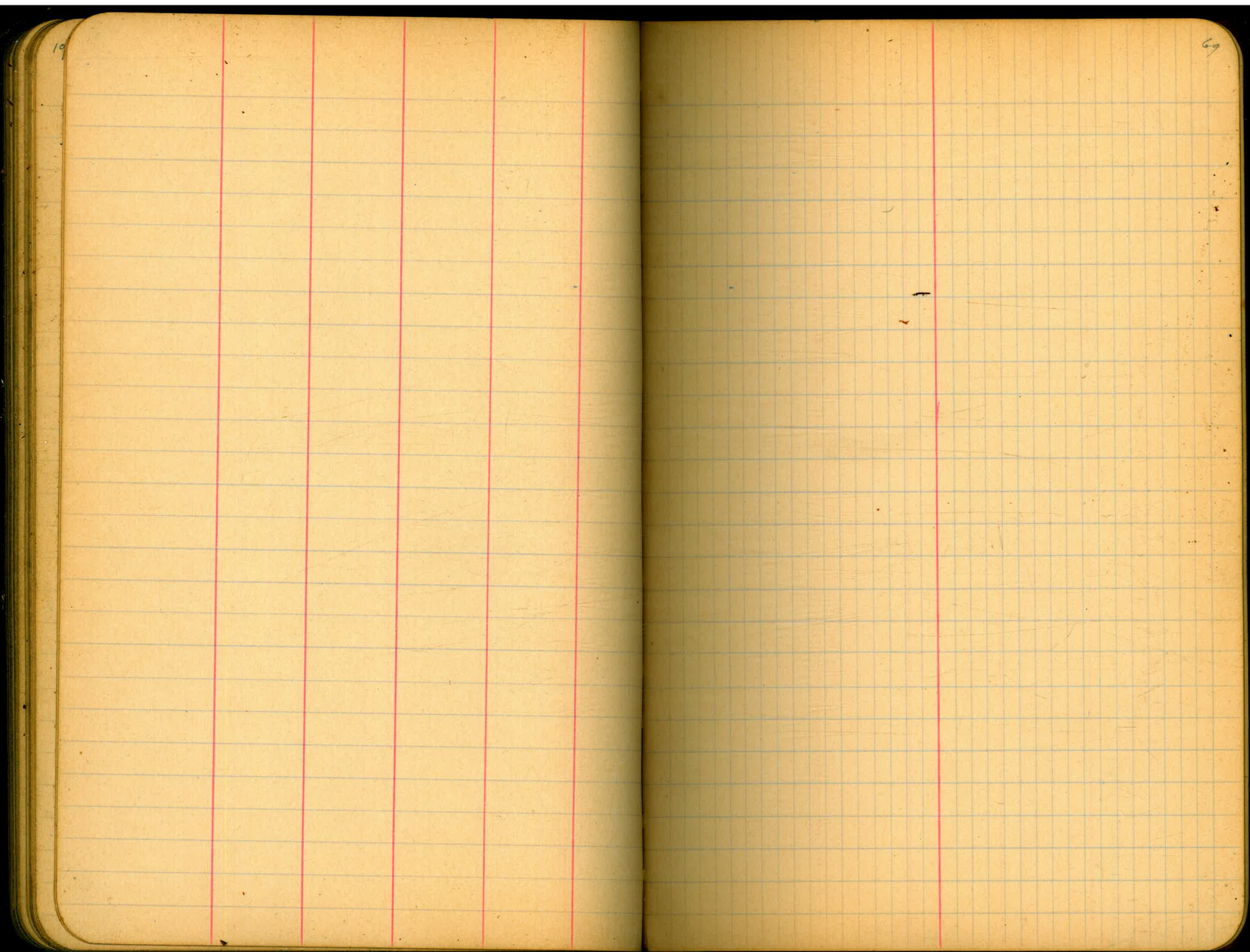
23490.17
1.0426
23234.37



10/18/24 Gregory Survey for Permanent Bulkhead Foot of 4th St

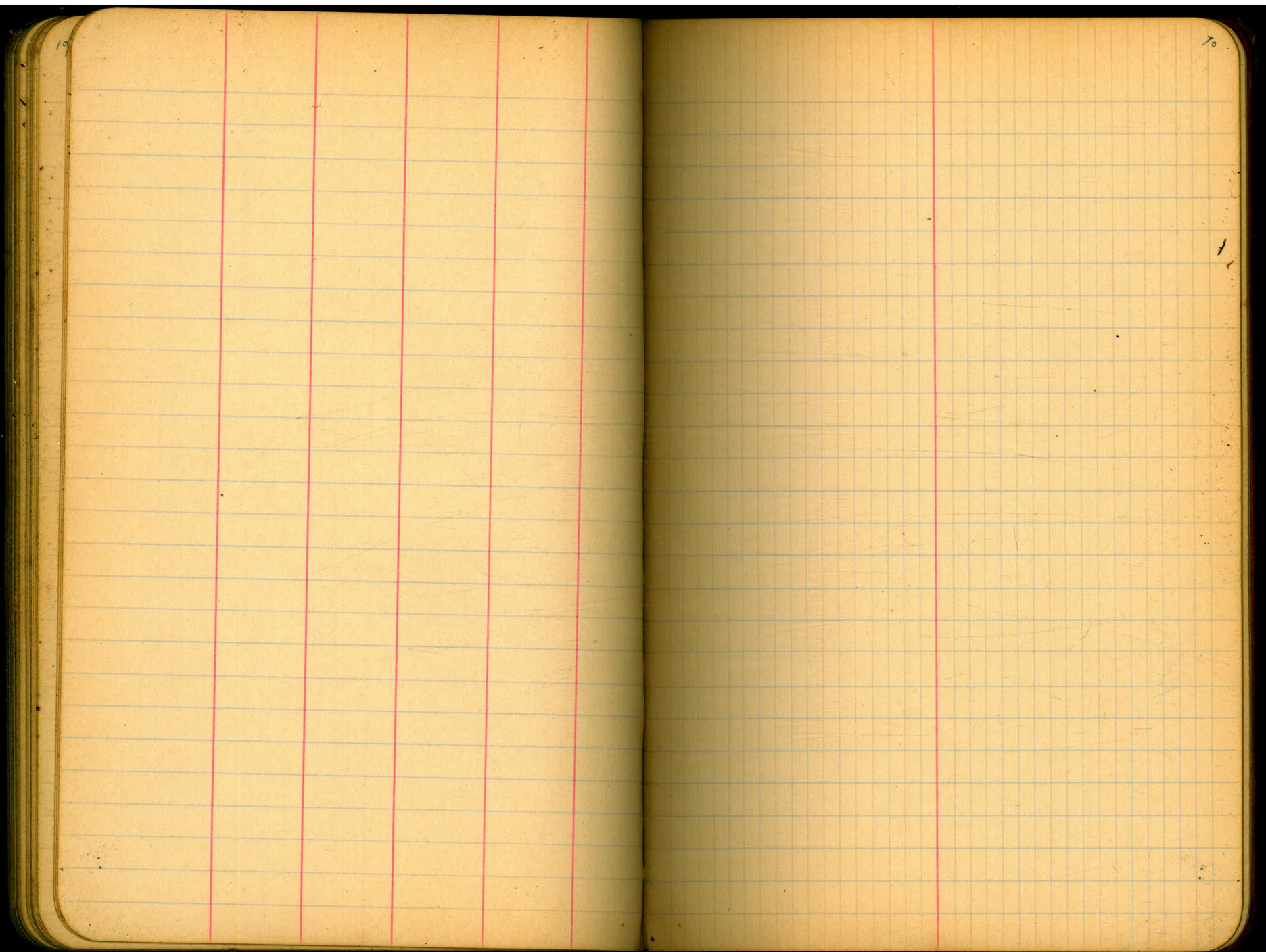


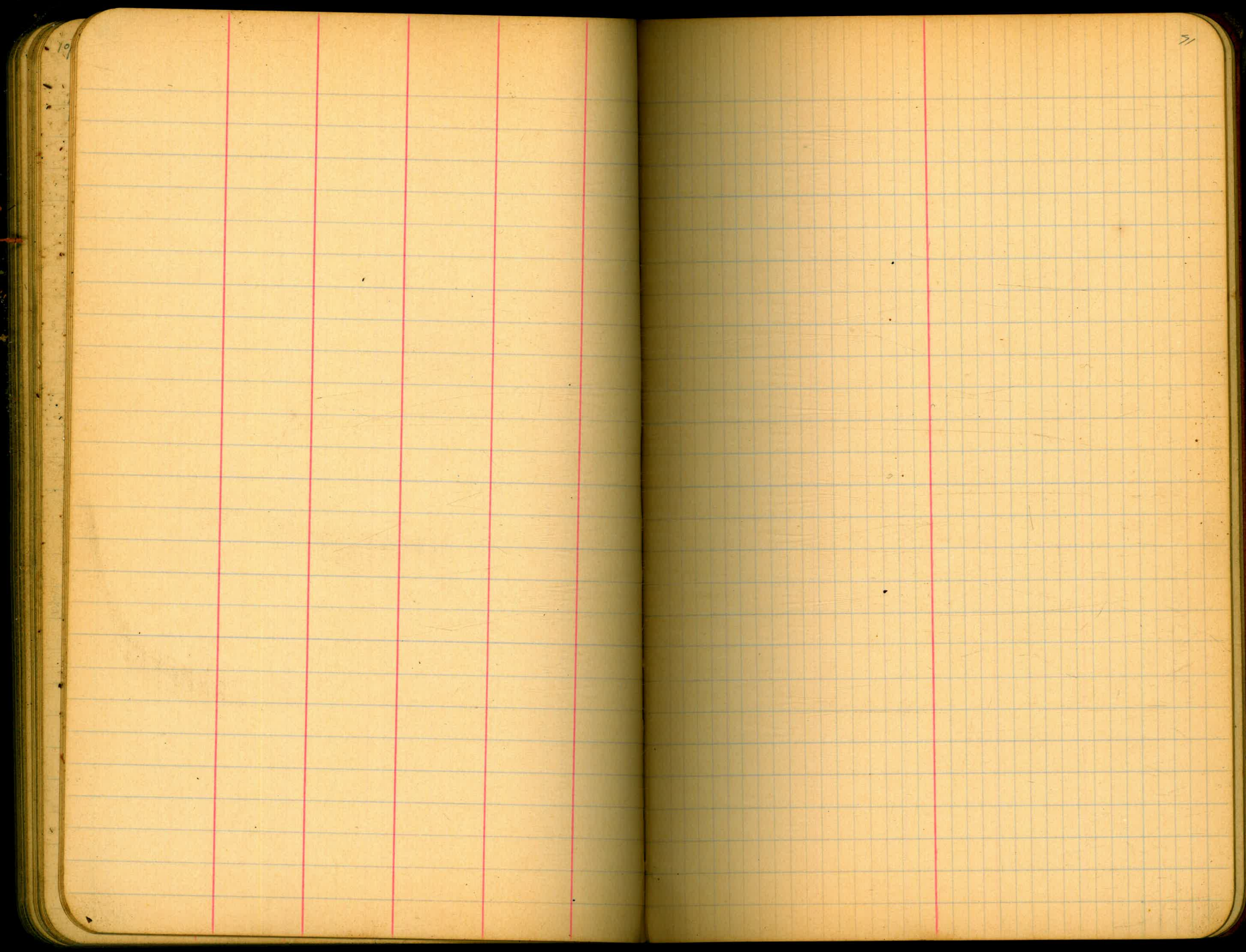




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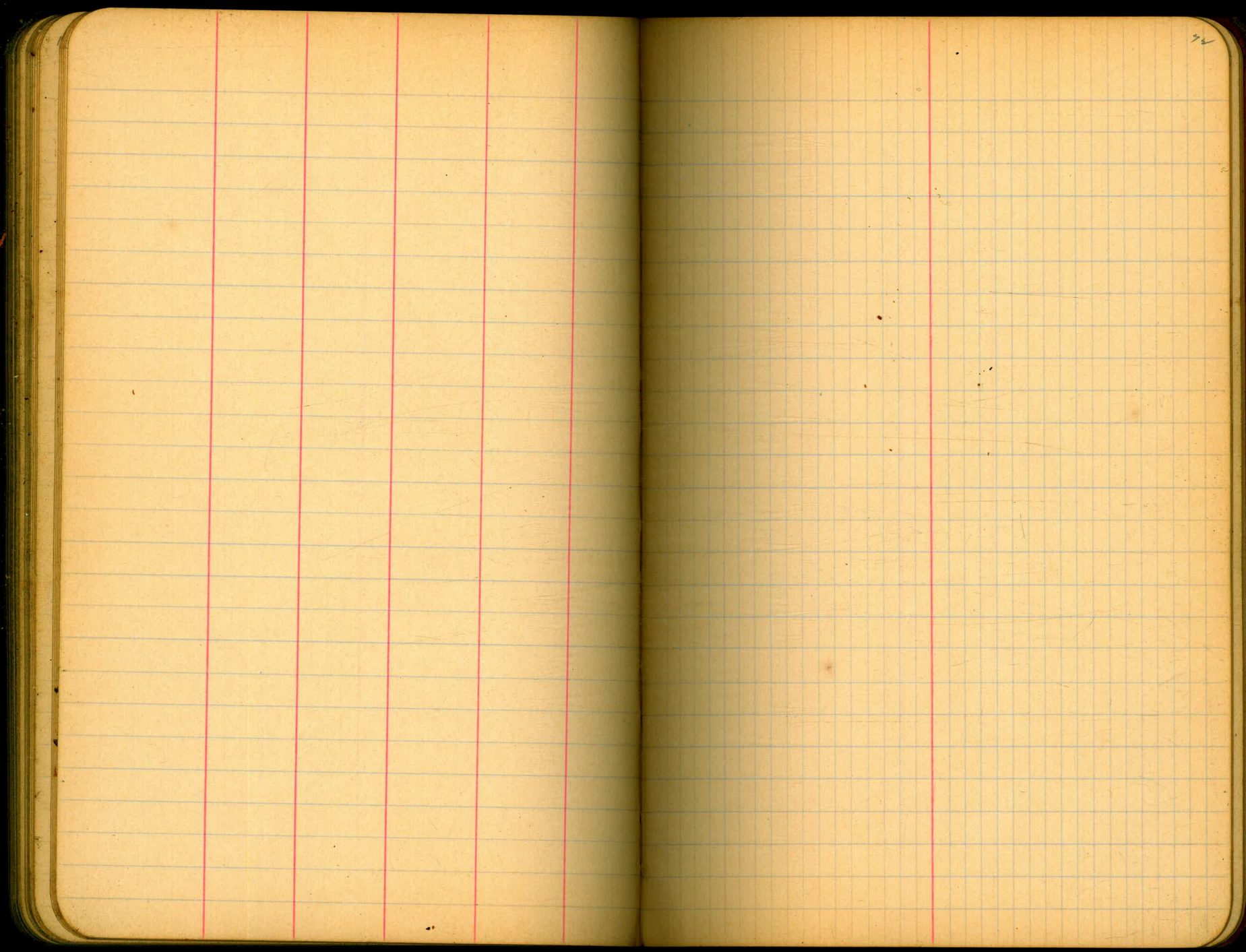
20



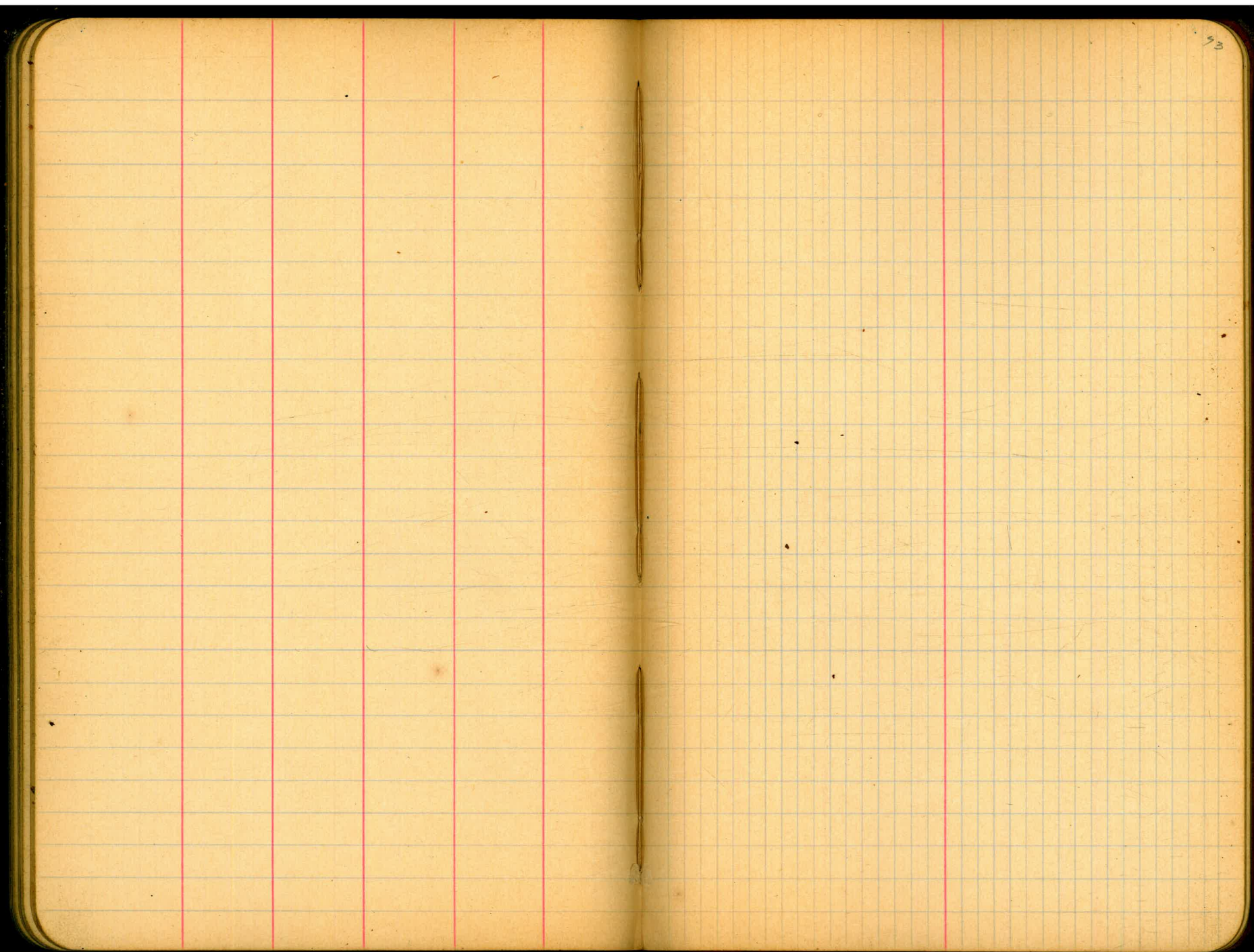


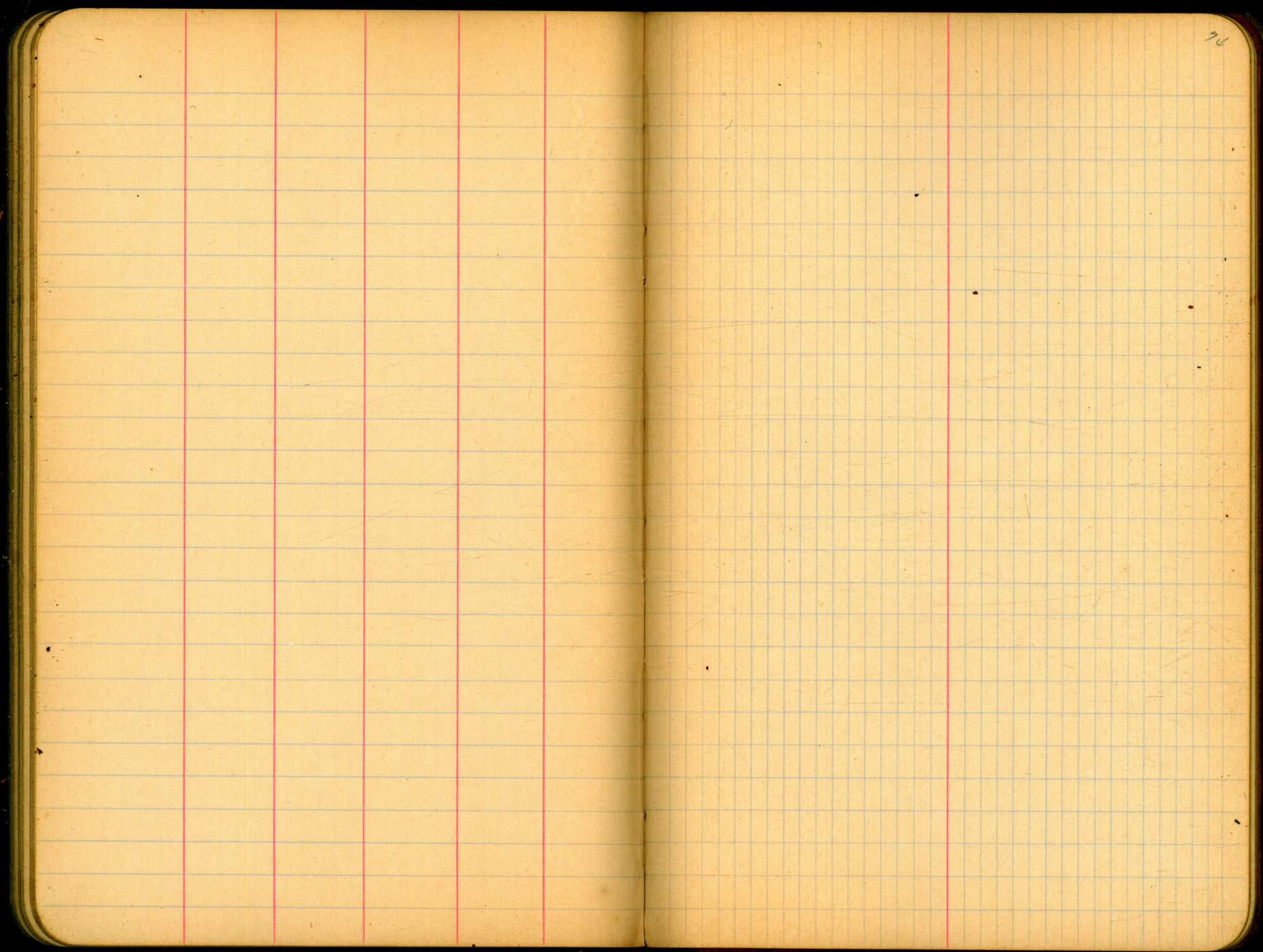
19

21

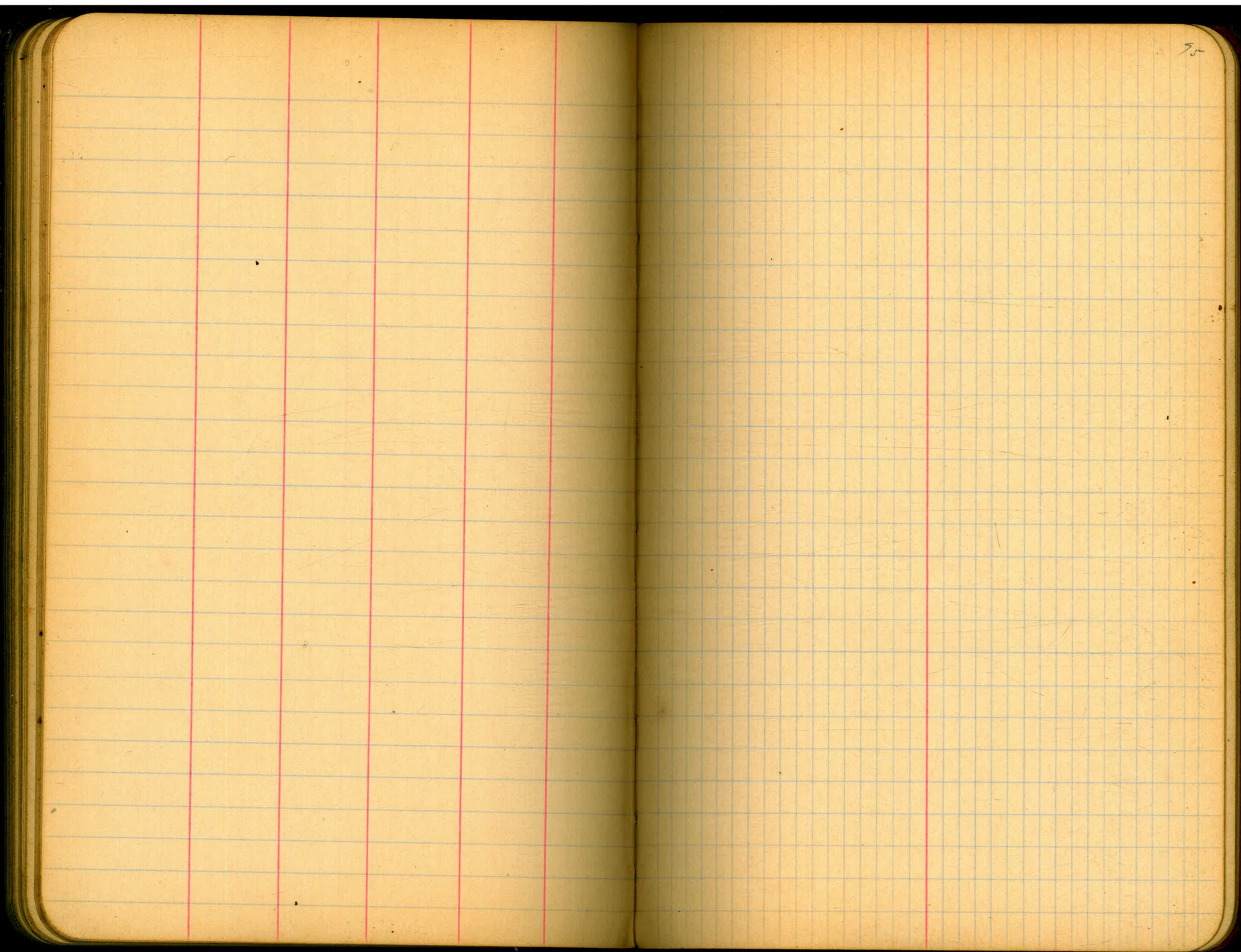


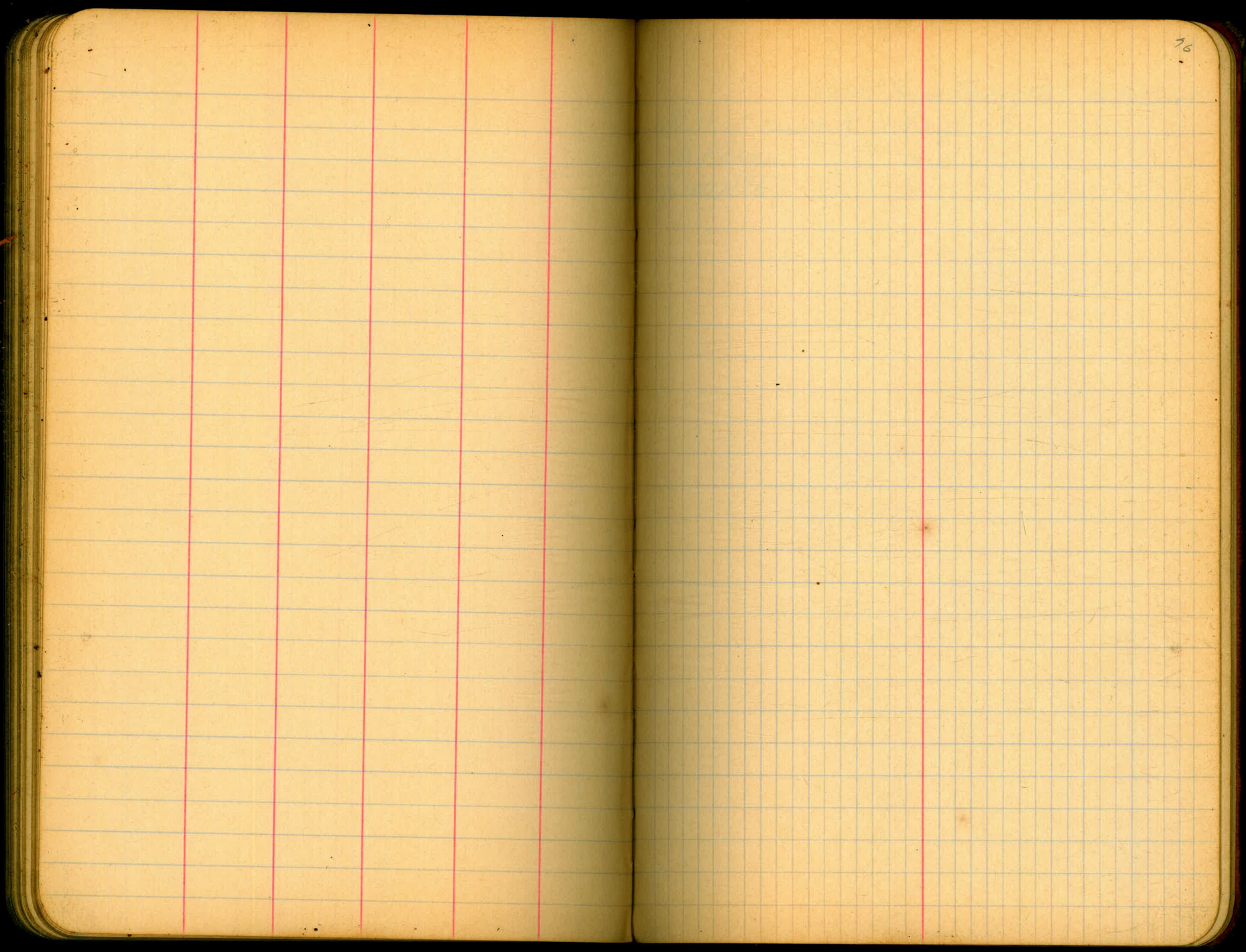
24





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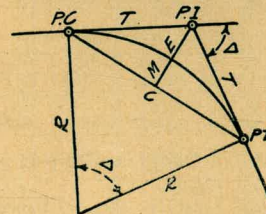




Point Louis Ferry Co, also Fort Cassin
 Foot of Market wharf
 La Playa "
 Roselle "

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



CURVE FORMULAS

Radius = $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve = D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)

Tangent = $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve = $L = 100 \frac{\Delta}{D}$ (4)

Middle ordinate = $M = R(1 - \cos \frac{\Delta}{2}) = R \text{vers} \frac{\Delta}{2}$ (5)

External = $E = T \tan \frac{\Delta}{4} = R \cos \frac{\Delta}{2} (1 - \cos \frac{\Delta}{2}) = R \text{exsec} \frac{\Delta}{2}$ (6)

Long Chord = $C = 2 R \sin \frac{\Delta}{2}$ (10) Δ = Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I. = Sta. 161 + 60.35 to find Sta. of P. C. and P. T. $\Delta = 62^\circ 10'$ $D = 8^\circ 20'$. From Table IV for 1° curve $T = 3454.1$ and $+8\frac{1}{3} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. - $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = 158 - Sta. P. C. = 54.50, hence offset = $7.27 (54.50 \div 100)^2 = 2.16$ ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26) = 2.16$ ft.

Deflections.—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For c ft. = (in minutes) $.3 \times C \times D^\circ$ or = defl. for 1 ft. from Table III $\times C$. For Sta. 158 of above curve = $.3 \times 54.5 \times 8\frac{1}{3} = 136.2'$ or $2^\circ 16.2'$, or = $2.50 \times 54.5 = 136.2'$ from Table III. For Sta. 159 deflection angle = $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 91.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 91.27$ and from Table V correction = .10 or $E = 91.37$ ft. Or suppose $\Delta = 32^\circ$ and E is measured and found to be 42 ft. What is D ? From Table IV $E = 230.9$ and $\div 42 = 5.5$ or $D = 5^\circ 30'$.

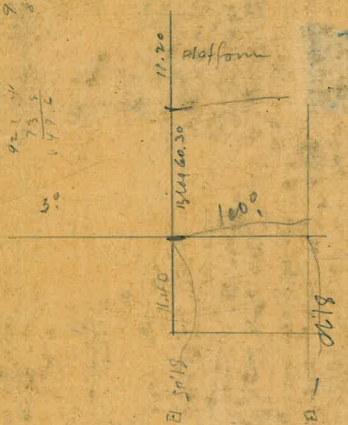
(521137)

Strudwig

1017 C. St. Median 3907
Mrs Delquist

21+30 90 ± track of creek
735 00 05 Cont. A.E. Anderson
21 75 00 15 total
287 63 85

45/560
749
37 42
688
32 42
106 22
57 45
47 47
2040



W.H. Thompson Hill.
19+82.07
19+49.46
41.63

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
For Single Track Embankment.

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

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