

1699

#699

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.

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

Copyright, 1914, by Eugene Dietzgen Co.

Scimitar Rosemont
Map 1133

CAT-55969

REDWOOD 55937

89-59

1700

23

15100

This Field Book is manufactured of a High
Grade 50% Rag Paper having a WATER
RESISTING SURFACE, and is sewed with
Bing Special Enamel Waterproof thread.

Made in U. S. A.

Chicago

H

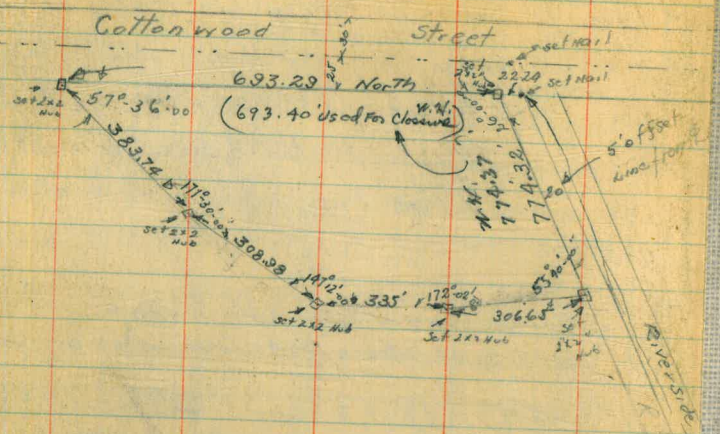
- 0
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- 36
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- 38
- 39
- 40

Ex
to be a
of road
exampl
30.6 = 3

Indexed to P.	Date	By	Notes	Date	Indexed by
Map 16-D (7)	9/20/46	M.P.V.			
page N	9/26	M.S.D.			
10-16	1/30/47	M.S.D.			
20	9/12/47	M.S.D.			
22	10/1/47	M.S.D.			

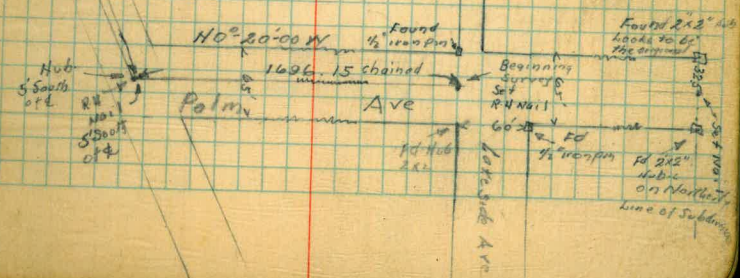
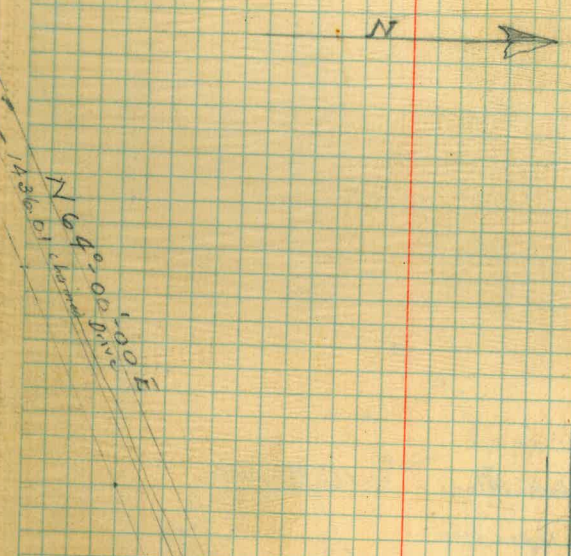
Index

- ✓ Page 1. Survey of Parcels of Lot 126, 127, 128, 129 Lake Side Farms
- ✓ 11 2-5. Retracement Co. RS 368. from West to East
- ✓ 11 6. Parcel # 126 Lakeside Farms
- ✓ 11 7. " # 126. Portion in S.W. Corner Parcel 126
- ✓ 11 8. " # 124 Parcel Lakeside Farms West of Cotton wood So. Co. RS 368
- ✓ 11 9. " # 125 Survey of Parcel in NE Cor. Previously Sold
- ✓ 10-16 Alignment and levels for establishment of Grade on Contemplated Pond in w. End River View Farms
- ✓ 20. Traverse of Ortol in N.W. Cor. Lake Side Farms
- ✓ Resurvey Lots 12, 7, 8. Block 5. Lots 1-2. Block 3 Part of Cajon Park Map # 767 Record # 412 City
- ✓ Otay Lake - Stadia Line - ON Edge 23-26 ✓
Water - Dam to Recreation area Alice
- ENCANTE PUMP STATION, 65th & HERRICK 27.
- " PUMP HOUSE & PLOT LAYOUT 28.
- " MISC. ELEV'S 29-30
- " Additional Ties to 36" OTAY MAIN COE 31
- " Elevations of piping 32
- " X-Sections, South of Elect. Sub. Station Alice 33
- " EXISTING PIERS NORTH SIDE BUILDING 33 ✓
- Pump Plant 65th & HERRICK 34-35 ✓
- OTAY WOOD STAVE LINE 647+00 - 662+50 37-38 ✓
- " " " 688+00 - 709+00 39-42 ✓
Alice
- OTAY 2nd MAIN PIPELINE, TIES to SCIMITAR DR. 43 ✓
- ✓ Page 75. Location Air Valve + Box on Lantana Drive Fairport Add
(CHOLLAS R. to OTAY - S.W. - 1st Main R.R.)
- Page 76 - City Property OTAY PIPE LINE
Location thru Brooklyn Terrace ✓
Alice



Survey of parcels
of lots 126, 127, 128, 129
Lakeside Farms

Hill
Bliss Notes
Kimp T
Davis H. chair
Phillips R. "
March 14-96
Cloudy but clearing

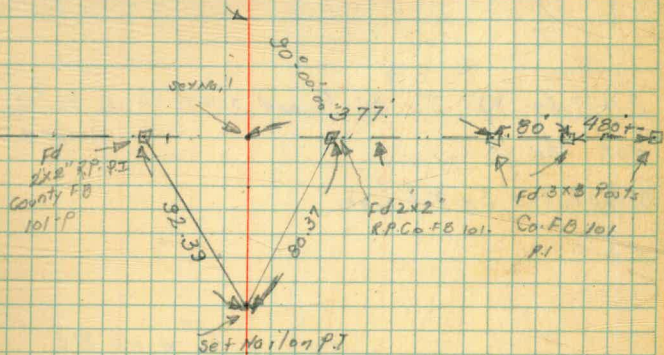


Retracement Survey of Co. Road Survey # 368. From 53+70²⁰ Eastward to 0+00 the
E of Cottonwood St

2

Hill
Bliss Notes
King T
Doris H chain
Phillips R, March 1898

53+70²⁰ Ahead Don Goodbody = 00 This Survey
= 52+47.7²⁰ back Roy Kaye's line



34256

$\Delta 80^{\circ}21'-00''$

241.99 P.I. to P.I.

2 1/2" Hub

20 x 2 1/2" Hub BC

2177.80 P.I. To BC Record 2176.87 $\Delta 80^{\circ}13'-00''$

Note this pt

Record $80^{\circ}16'$

Established by Int from

East

20 x 1/2" pipe EC

3

Ed old Spike

035.52

$\Delta 15^{\circ} 21' - 15^{\circ}$. Record $15^{\circ} 21'$

1065-79. charoid.

1965

042.56 P.I.
TO PI

$\Delta 16^{\circ} 10' - 00$

ΔN

Gorge

$\leftarrow 29' \rightarrow$ Ed Co RP.

Gorge

Ed Co RP.
290'

293552.
Record 1930

Re established
 Cos ~~pt~~ from
 The Co 0100
 According to Co Survey 368

135
 Fd Co. R.P.
 Co. R.B. 101. P. 6
 Dan Good body's Survey
 set 1922

6 of Cottonwood
 as established
 from D.A. Hoeber's
 map of 1865

Survey Lakeside Farms Property
at Lakeside. Sept. 1946.

6.

Hill
Oliver Water
Kings
Davis Phillips

? See Hand Copy
3835.22

660
660
660
1980
66
1980
157
42
2177
613
2290
2640
150

Fd. Co
RRS RS 368

Fd
Co R.P.P.
Co F 8161

Fd 3x4
Fd 3x4

Estly line
L1 Cajon Park

1578.19
268.08

Fd 3x4
0.

Fd 1" pipe
Sec 7
7.

Fd 2x2 No 6

Set 2x2
90° 03' 45"

Drink water

1060
1094.68

1669.93

71° 24' 15"

Set 2x2

Fd 4x4
RE # 1541

13223 change
of
Cajon Park

Set 2x2
90° 06' 45"
26.80 Fd 4x4 R.P.
16° 10' 00"
20
Set 2x2
31.25.00

1065.79

15° 21' 15"

Set 2x2

Fd Co R.P.P.

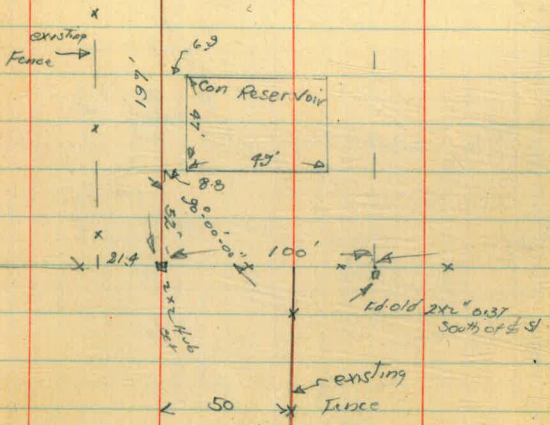
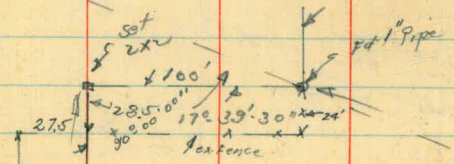
91.01.00
130.01
2x2
2x2

608.42

Fd Pipe
Sawtooth
Charred
Pipe RE

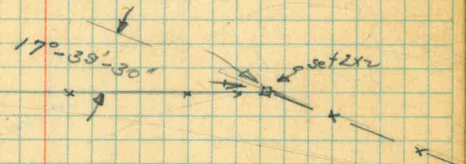
Survey of Parcel in South Westly Corner
City Prop. Lakeside Farms

Section
Elm. Capob Park
North



643.44 Charred

618.80 Charred



Sept 1946

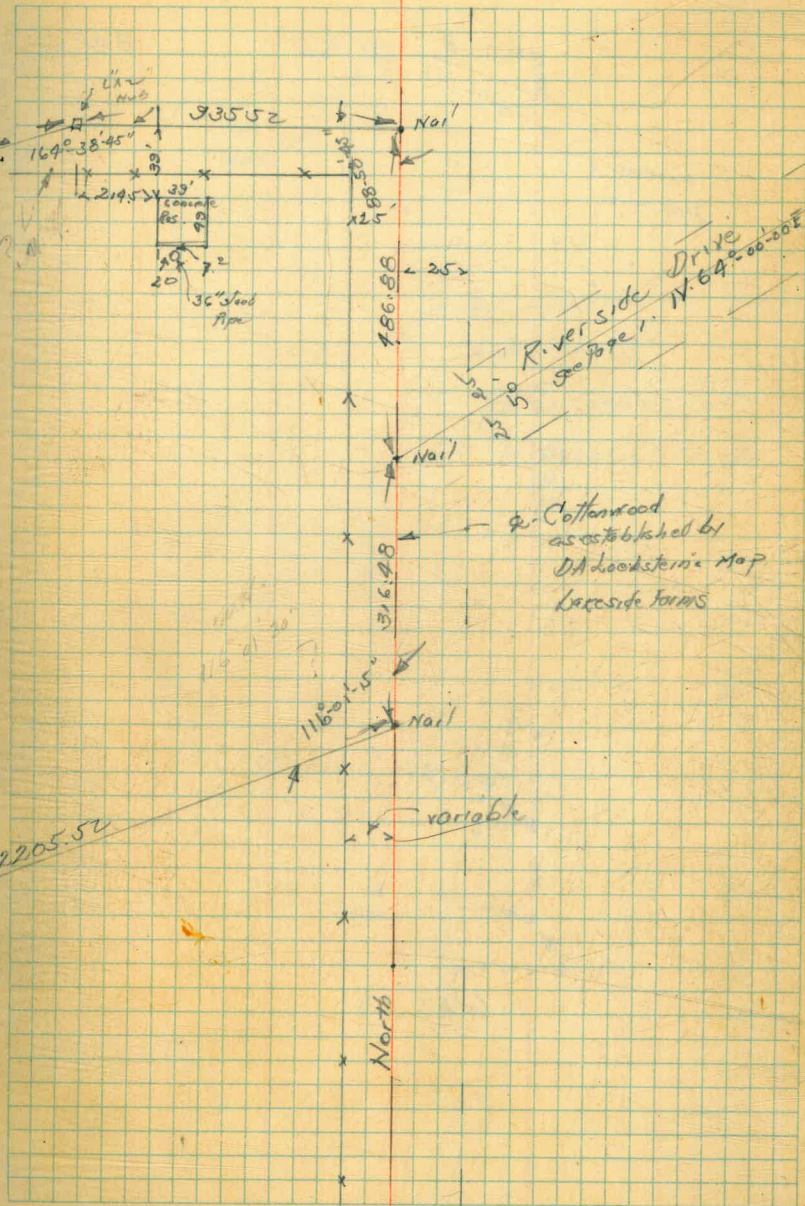
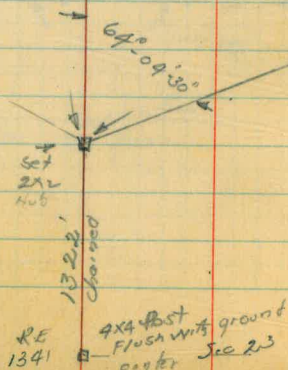
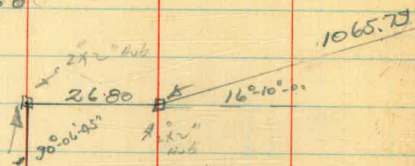
Hill Survey of Parcel Lakeside Farms

Bliss notes West of Cottonwood St and South of Co

King & R. Survey #368

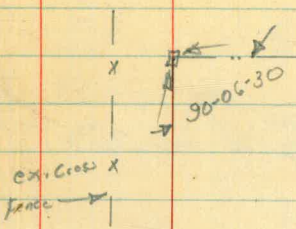
Davis

Phillips



2 1/2" pipe
 RE-4
 3x4
 Charred post

805 46

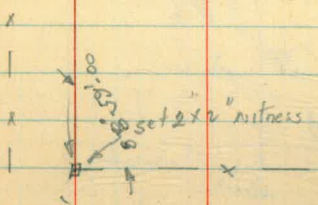


12.5

x

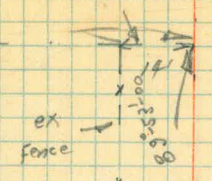
x

588.65



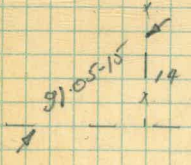
set 2x2 riv.
on Co R.S. 368

805 51



to Cottonwood
Established from
DA Loebsteins Map
of Lakeside Farms

595.65



14

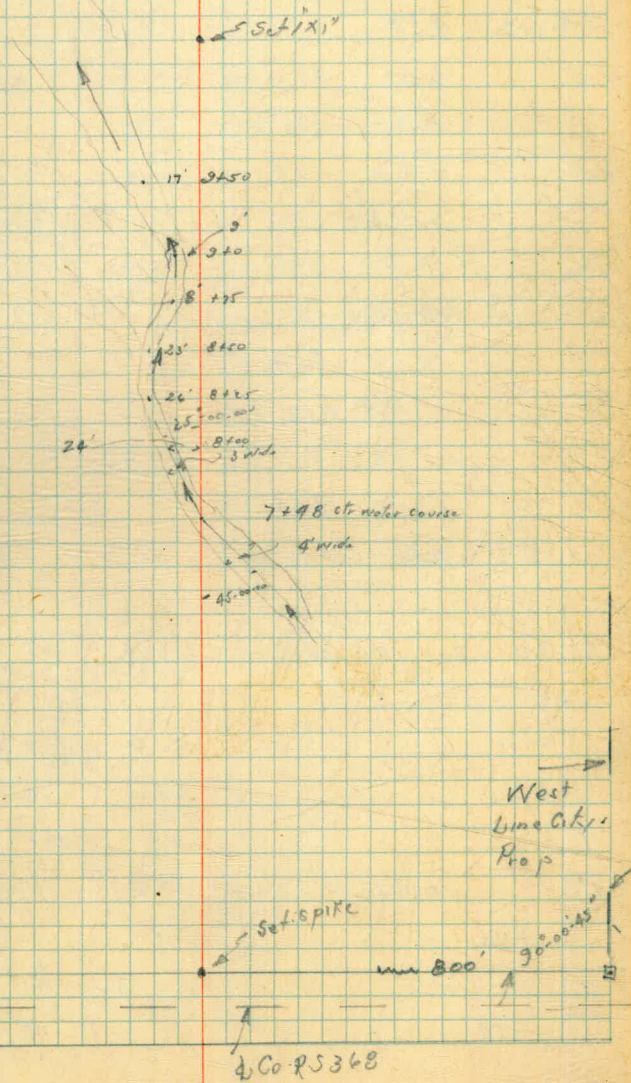
17+15 ¹⁷ L Rt 90°-00'-00

17+15 ¹⁷

190

1900 S 17

6+00. S. Line Co. R.S. 368



Levels to Establish Elev of Road					
BM	4.38	383.55		379.17	USGS datum
TP	3.55	379.28	7.82	375.73	✓
TP	1.01	373.84	6.45	372.83	✓
TP	4.24	371.06	7.02	366.82	✓
TP	6.02	372.60	4.48	366.58	✓
TP	8.00	377.32	3.28	369.32	✓
TP	4.23	374.90	6.65	370.67	✓
TP	6.49	376.48	4.91	369.99	✓
TP	12.87	388.51	0.84	375.64	✓
Set BM	10.30	395.43	3.38	385.13	✓
TP	10.08	402.40	3.11	392.32	✓
TP	11.49	412.24	1.65	400.75	✓
TP	10.58	421.88	0.94	411.30	✓
TP	13.10	434.96	0.02	421.86	✓
Set BM	0.82	435.25	0.53	434.43	✓
0-20	Co R.S. 368		7.4	427.9	
0+00			7.7	427.6	
+11			9.1	426.2	
+50			11.0	424.3	
1			12.9	422.4	
TP	0.49	423.45	12.29	422.96	✓
+50			2.7	420.8	
2			2.3	421.2	
+50			6.3	417.2	

Riverview Farms

11

iron Bolt N.E. Cor Gate valve Box Riverview Pump
 float
 Blaes Notes
 King T
 Phillips
 Nonow
 1/29/47

Nail in fence post. 700+ South of River side Drive
 on W side Cottonwood st

on stone East End rock wall Drinkwater estate Rancho
 Cas Palmas

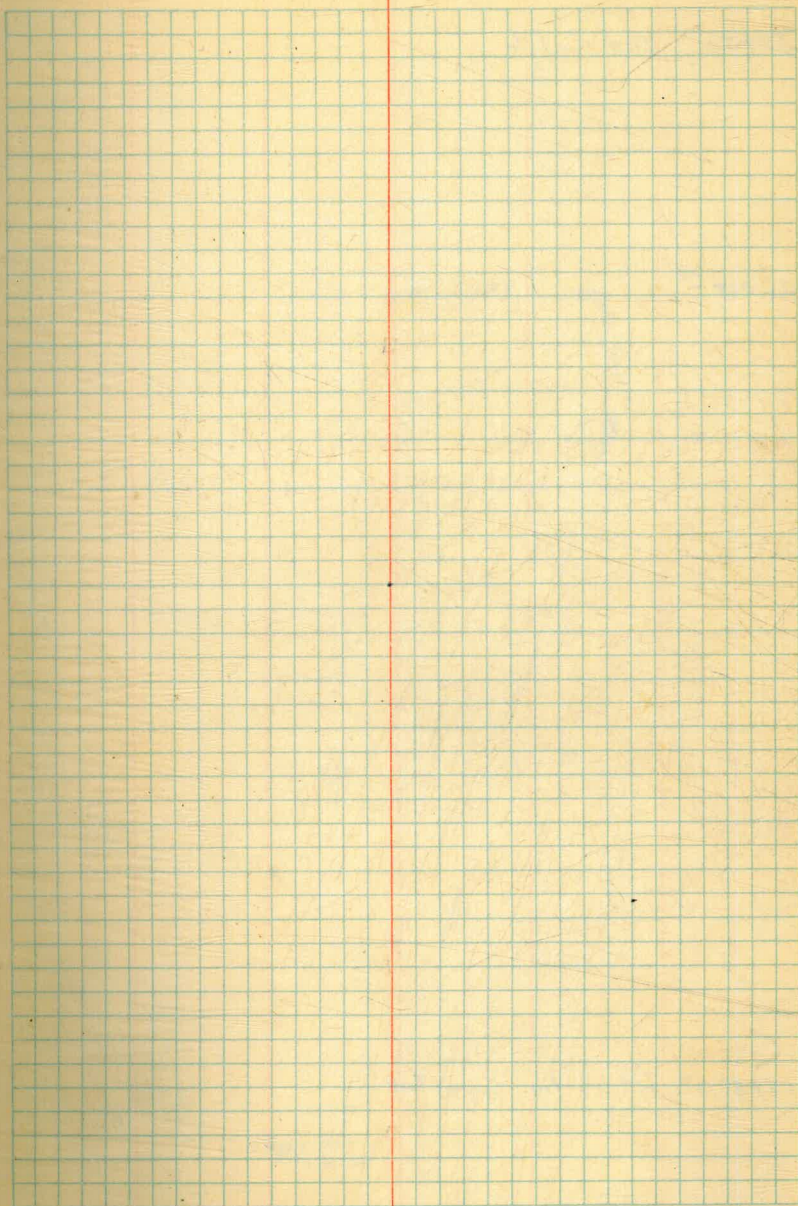
Painted Circle on large boulder 100 N. end Southwest
 of 0+00. This survey

π
923.95 ✓

3			7.8	415.7
	+50		9.7	413.8
4			11.1	412.4
	+50		12.9	410.6
TP	0.58	411.86 ✓	12.17	411.28 ✓
5			3.2	408.7
	+50		5.0	406.9
6			6.4	405.5
	+50		8.4	403.5
7			9.6	402.3
	+39		10.6	401.3
	+48	bottom	12.5	399.4
	+62		11.8	400.1
8			12.4	399.5
"	24' lt	4' w. course	14.1	397.8
TP	0.53	400.35 ✓	12.04	399.22 ✓
	+25		1.7	398.7
"	26' lt	3' wide	3.0	397.4
	+50		2.5	397.9
"	23	6' wide	2.6	397.8
	+75		3.3	397.1
"	8' lt	6' wide	4.2	396.2
9			4.3	396.1
"	9' lt	12' wide	4.7	395.7
	+50		5.6	394.8
"	18' lt		5.5	394.9

Note water course
Flattens out

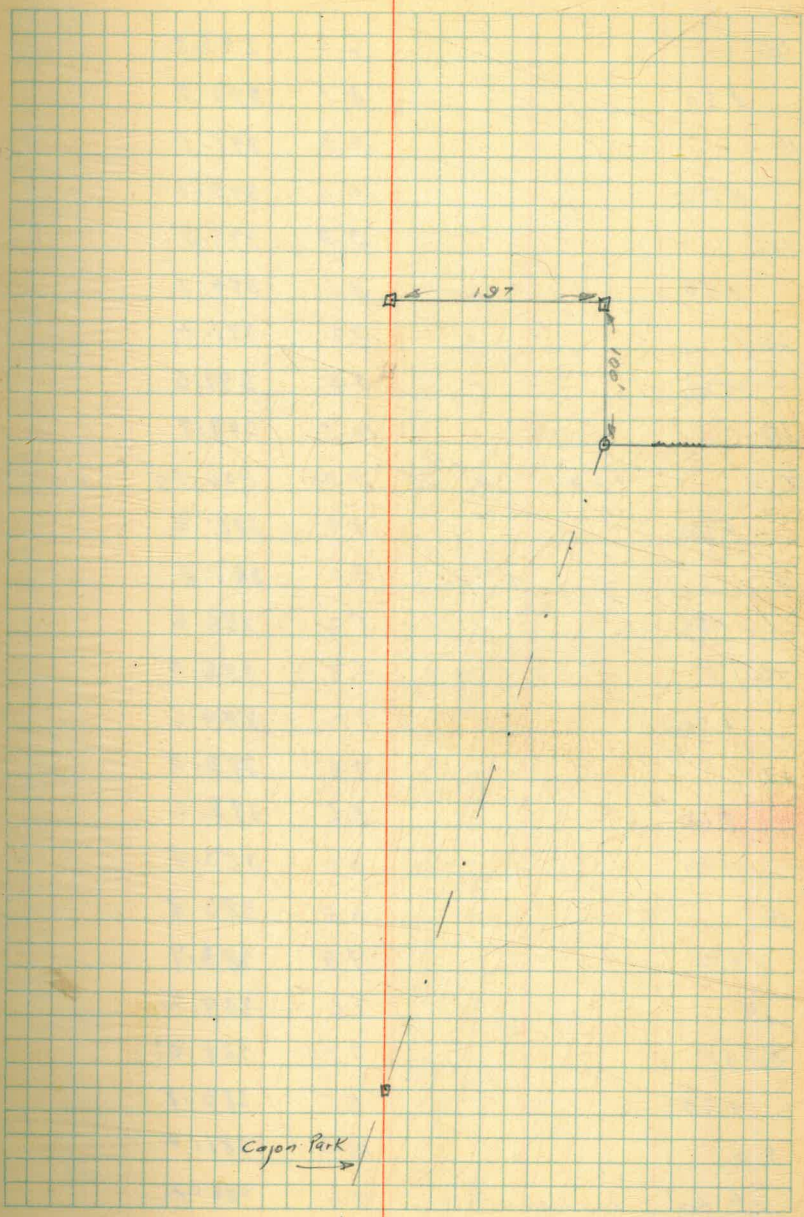
12.



23+50 End Profile

26+15.17

17+87.37 int. nly line Cajon Park



7
400.35 ✓

10			6.7	393.7
+50			8.1	392.3
11			9.3	391.1
+50			10.3	390.1
12			9.9	390.5
+50			9.7	390.7
13			9.2	391.2
+50			9.4	391.0
14			10.5	389.9
T.P.	1.39	391.79 ✓	9.95	390.40 ✓
+50			3.3	388.5
15			4.0	387.8
+50			5.2	386.6
16			5.8	386.0
+50			7.2	384.6
17			8.3	383.5
+15 ²⁷ L			8.6	383.2
+50			8.0	383.8
18			8.0	383.8
+50			7.9	383.9
19			7.6	384.2
Set 3M.			7.78	384.01
+50			8.7	383.1
20			10.8	381.0
+20	low point		11.6	380.2

Made No. 1 culture
Here

27

14

391.79 ✓

+50			10.9	380.9
21			10.7	381.1
T.P.	11.58	393.11 ✓	10.86	381.53 ✓
+50			10.9	383.2
22			9.2	383.9
+50			7.7	385.4
23			5.6	387.5
+50			2.9	390.2 ✓
T.P.	12.65	405.52 ✓	0.24	392.87 ✓
24			12.5	393.0
+50			7.8	397.7
25			1.5	404.0 ✓
T.P.	732	412.16 ✓	0.88	404.84 ✓
+50			3.7	408.5
+65	E 100' st to South		2.7	409.5
"	50' st		4.8	407.9
"	100 "		8.7	403.5
"	150 "		12.6	398.6
26			2.6	409.6
+15	on Hub		3.98	408.18
+37			6.0	406.3
+50			7.3	404.9
+65			9.5	402.7
27			12.5	399.7 ✓
T.P.	1.03	401.27 ✓	11.92	400.24 ✓

15

T
901.27 ✓

27+50			6.5	394.8
28			9.9	391.4
+50			11.9	389.4
+70			13.0	388.3
+75	loose pt 4 wide cut out hole		14.6	386.7
+85			13.0	388.3
29+00			13.0	388.3
+50			11.7	389.6
T.P.	2.21	393.15	10.33	390.94 ✓
T.P.	0.42	381.30	12.27	380.88 ✓
T.P.	1.97	371.32	11.95	369.35 ✓
T.P.	2.59	367.43	6.48	364.84 ✓
T.P.	2.86	361.91	8.38	359.05 ✓
Check BM			11.00	351.91 ✓
				351.02 Record Elev
				0.89 error
				or diff

? N.W.

County BM #7 Hub under S fence
about 1 mile N. of Edge Moor
Farm

E Grader Set 25' West + 30' N. of E

Grade Stakes for Road in Lakeside

	+	x grade	Grade Rd	-	cut
0-20 0700		426.8		4.6	47.8
0750		424	8.4	7.9	00.5
1100		422.3	10.1	9.9	00.2
T.P.	12.31	432.71		2.11	420.10
2400		418.8	3.4	2.8	0.6
3100		415.3	6.9	6.3	0.06
4400		411.81	10.4	9.8	00.6
T.P.	12.77	422.21		0.17	409.44
5400		408.3	1.3	0.9	00.4
6400		404.8	4.8	4.1	00.7
7100		402.6	7.0	7.2	F0.2
7400 @rk		401.5	8.1	8.3	F0.2
8400		400.0	9.6	9.8	F0.2
T.P.	12.54	409.61		1.61	397.07
9400		397.0	1.7	2.4	F0.7

39868

Forms.

Bliss
Leonard
Fahy
7/23/47

		GR	-	cut
10+00	384	4.7	5.4	F0.7
11+00 Brk	391.6	7.7	7.4	0.3
12	390.7	8.2	7.3	0.9
13	390.4	8.3	7.3	1.0
	8.45	398.68	146	390.23
13.5 Brk	390.2	1.5	1.5	0.6
14	389.8	1.9	1.9	0.0
15	387.7	4.0	3.6	0.4
16	385.6	6.1	5.5	0.6
15.0 Brk	384.5	7.2	6.8	0.4
17 Grade used for pt 5' both ways from corner	384.3	7.4	7.4	0.0
18	382.0	7.7	7.0	0.7
19	383.8	7.9	7.4	0.5
19+50	383.5	8.2	8.9	F0.7

391.69

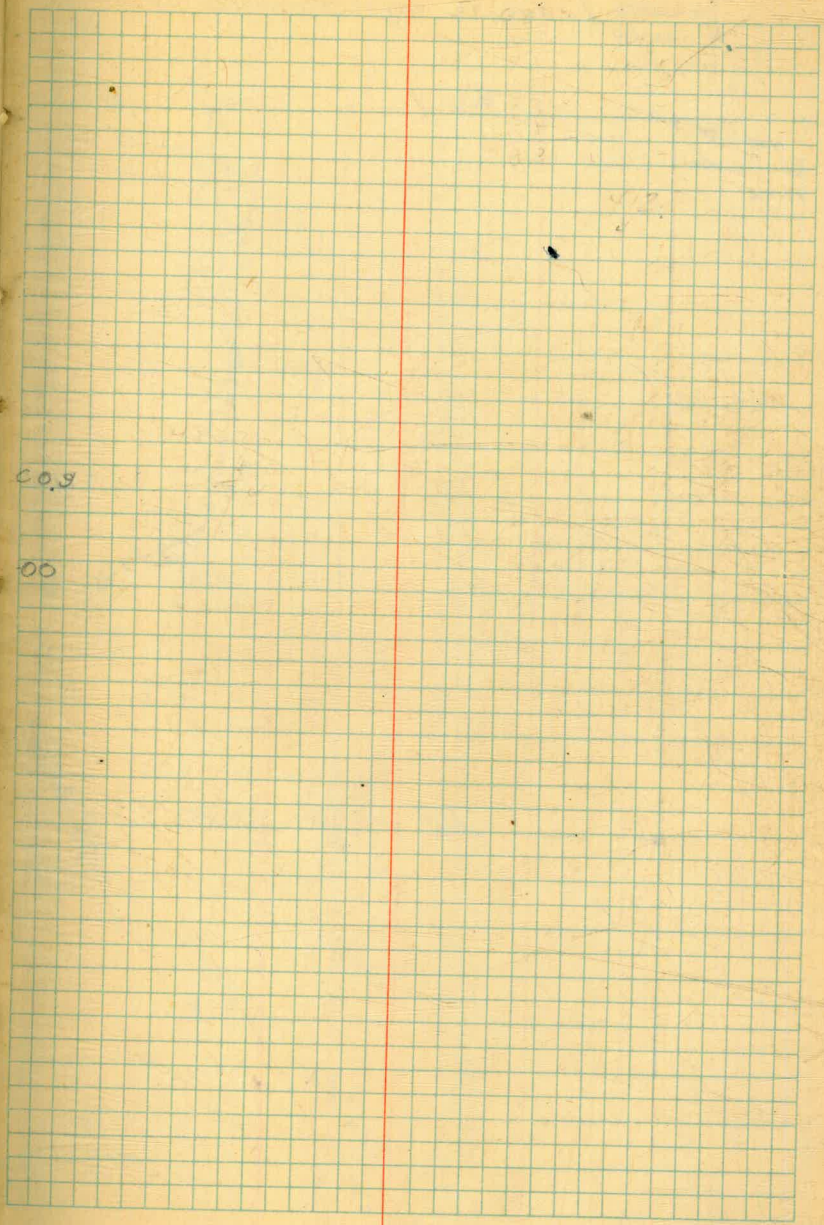
18

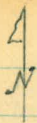
	Grade	Grade Rod	-	cut
19+55 + End	383.5	8.2	9.4	F1.2
Brk 7.68	391.69			384.01
2x2 Hub				

390.4

Stakes for culvert in Westly
 Portion of Lakeside Farms.

BM	5:00	420.0		415.0	Grade stake 7:00
0-30			6.8		
0+00			7.3	412.7	
0+30			7.3		
0+55			8.2	411.8	
0+60			7.5		
0+00			6.4	413.6	412.7
0+60			8.7	411.3	411.3

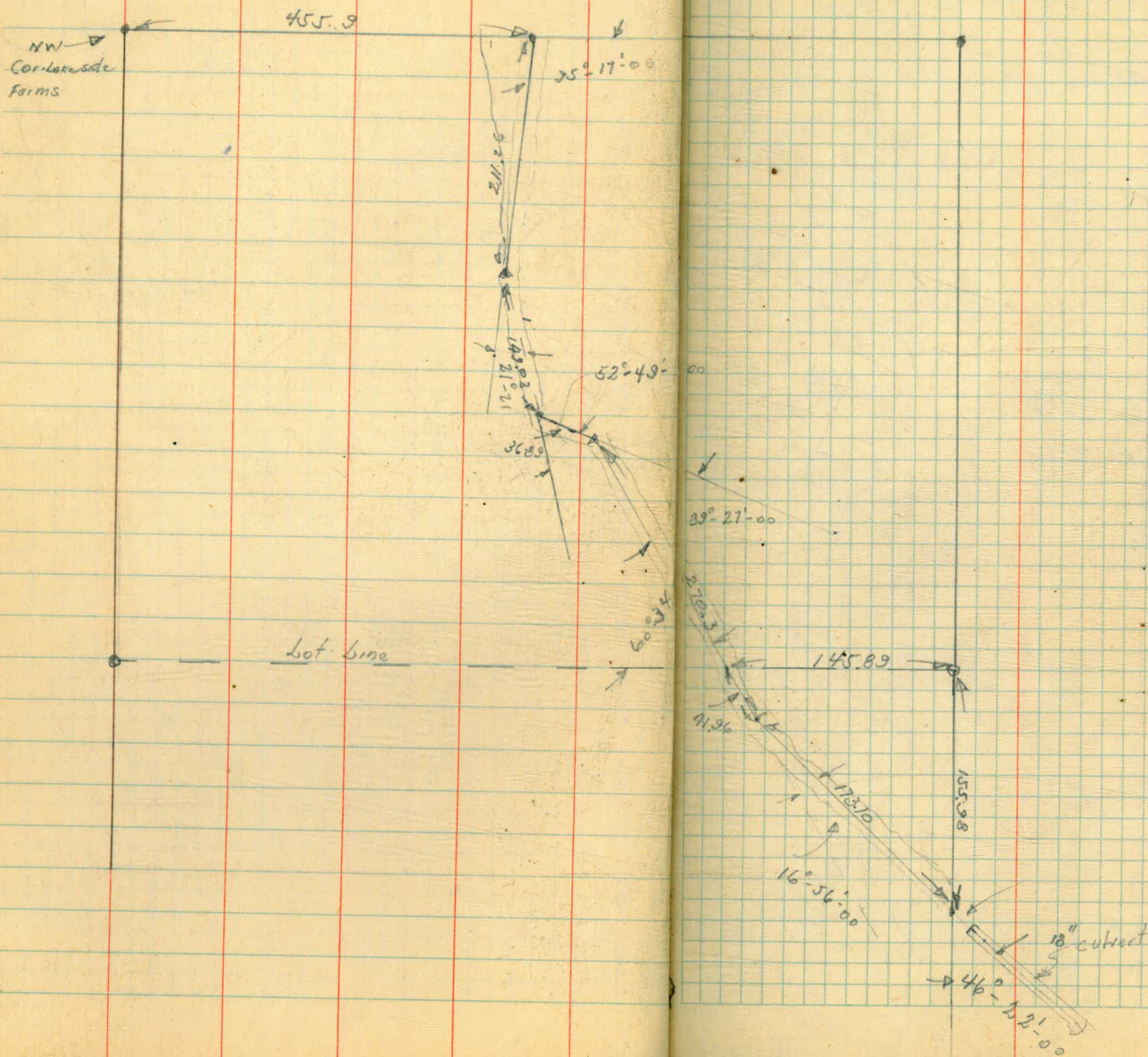




Traverse of Ditch in NW

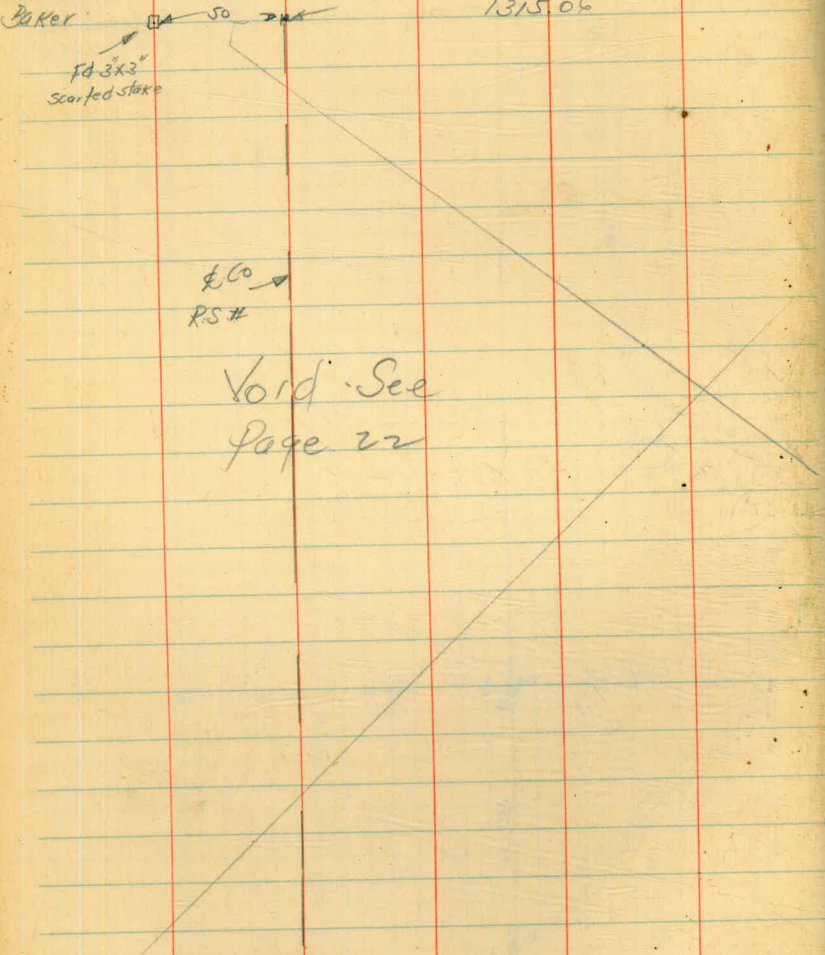
Section of Lakeside Farms

Bliss
Leonard
Baker
8/11/47

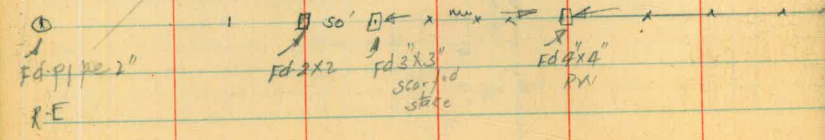


Resurvey Lots 1, 2, 3, 4 Block 5

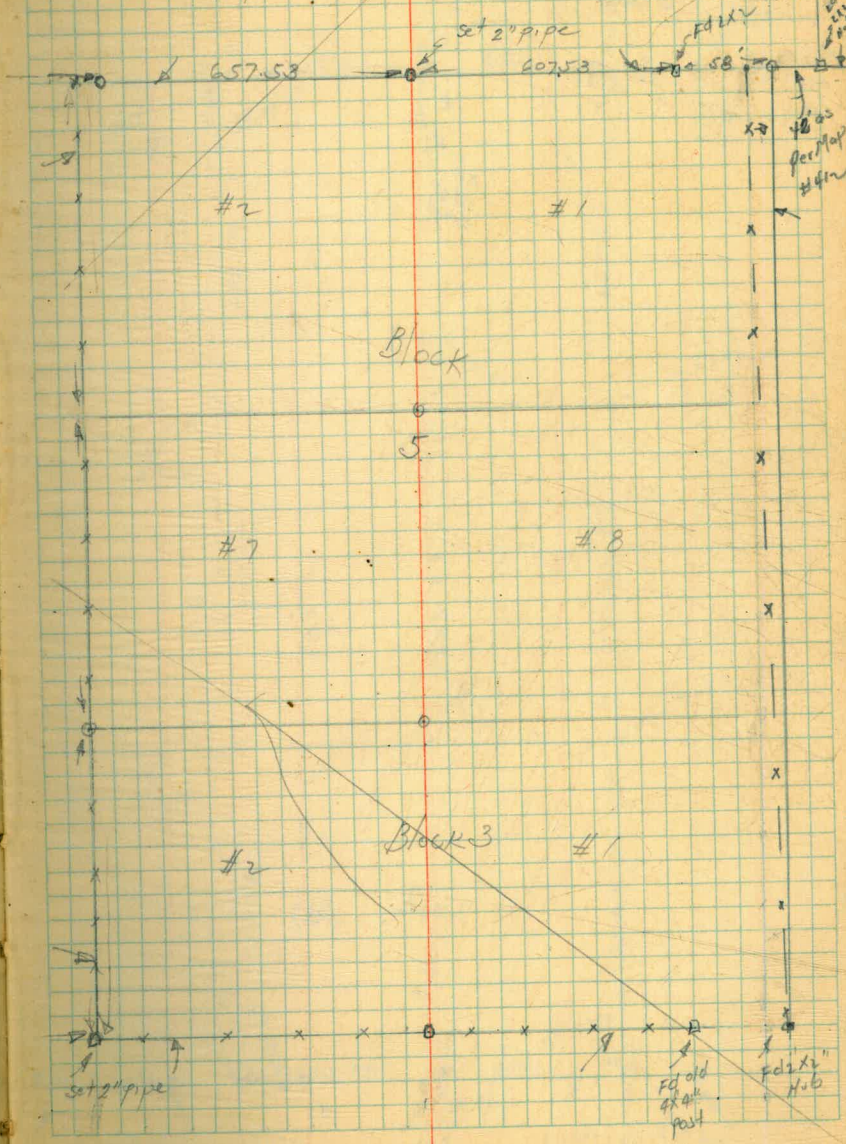
Hill
Bliss Notes
Leonard
Baker



60
RS#
Void - See
Page 22



Capon Park and Lots 1+2 Block 3 Capon Park
Filed Map # 412

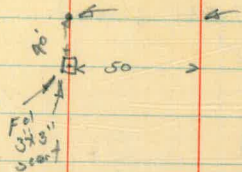


W/line
Baker
Farm
Capon
Park

Fd old
4x4
post
Fd 2x2
Hub

Hill Resurvey lots 1-2-7-8 Block 5
 Bliss + lots 1+2 Block 3. Cajon Park Map # 767
 Leonard # 412 city.
 Baker

10/1/47



1979.23

E Co. P.S. 392

Fd 1 1/2
Pipe
o.N. South

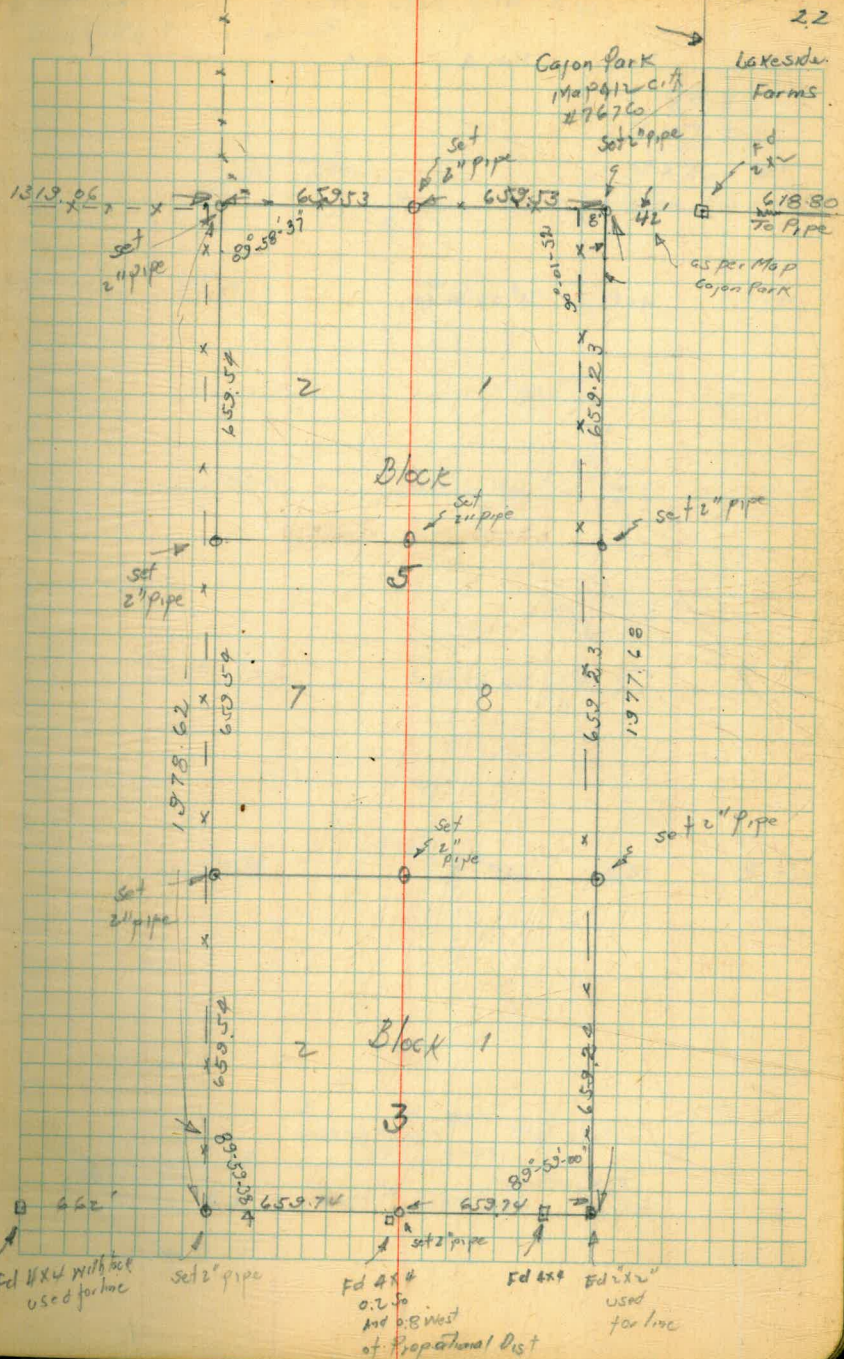
Fd 4x4
O.A.N.

F 3x3
scarf.

Fd 4x4 with ice
used for line

Fd 4x4
0.2 So
And 0.8 West
of Propertional Dist

Fd 4x4
Fd 2x2
used
for line



2.2

Cajon Park
Map # 412 city
767 Co

Lakeside
Forms

Fd 2x2

618.80
70 Pipe

as per Map
Cajon Park

Block

Block 1

3

Pt. #	Dist.	Hor. A	V. A	
4-5	418	$70^{\circ} 57' 30''$ Lt		$57^{\circ} 30''$ W
3-4	715	$48^{\circ} 41' 30''$ Lt		57° W
2-3	75'	$40^{\circ} 20' 30''$ Lt		N $52^{\circ} 15''$ W
1-2	165	45° R		N $12^{\circ} 30''$ W
0-1	(520') 516'	$108^{\circ} 58'$ R	$-7^{\circ} 08'$	N $59'$ W 512° W

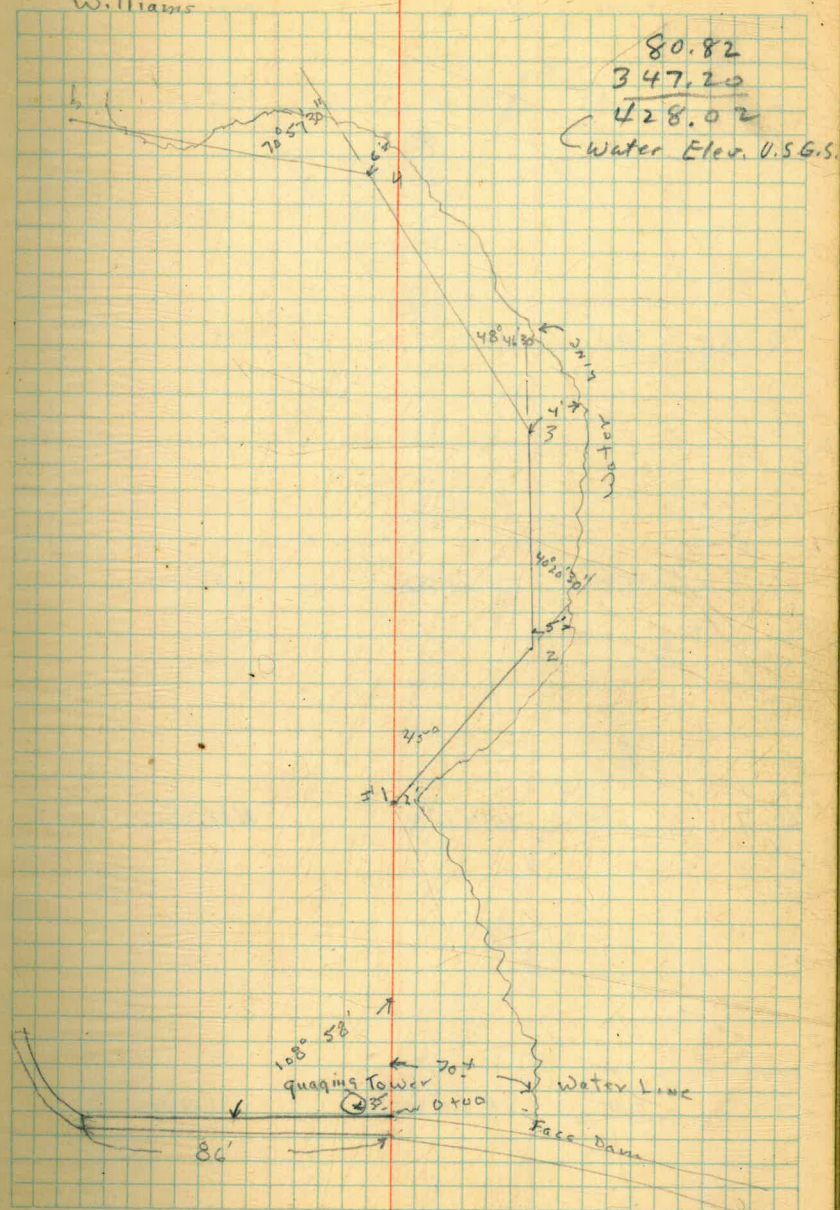
Stay Lake. - Traverse from Dam to
Recreation Pt. along Water

King
West T
Williams

2-14-52

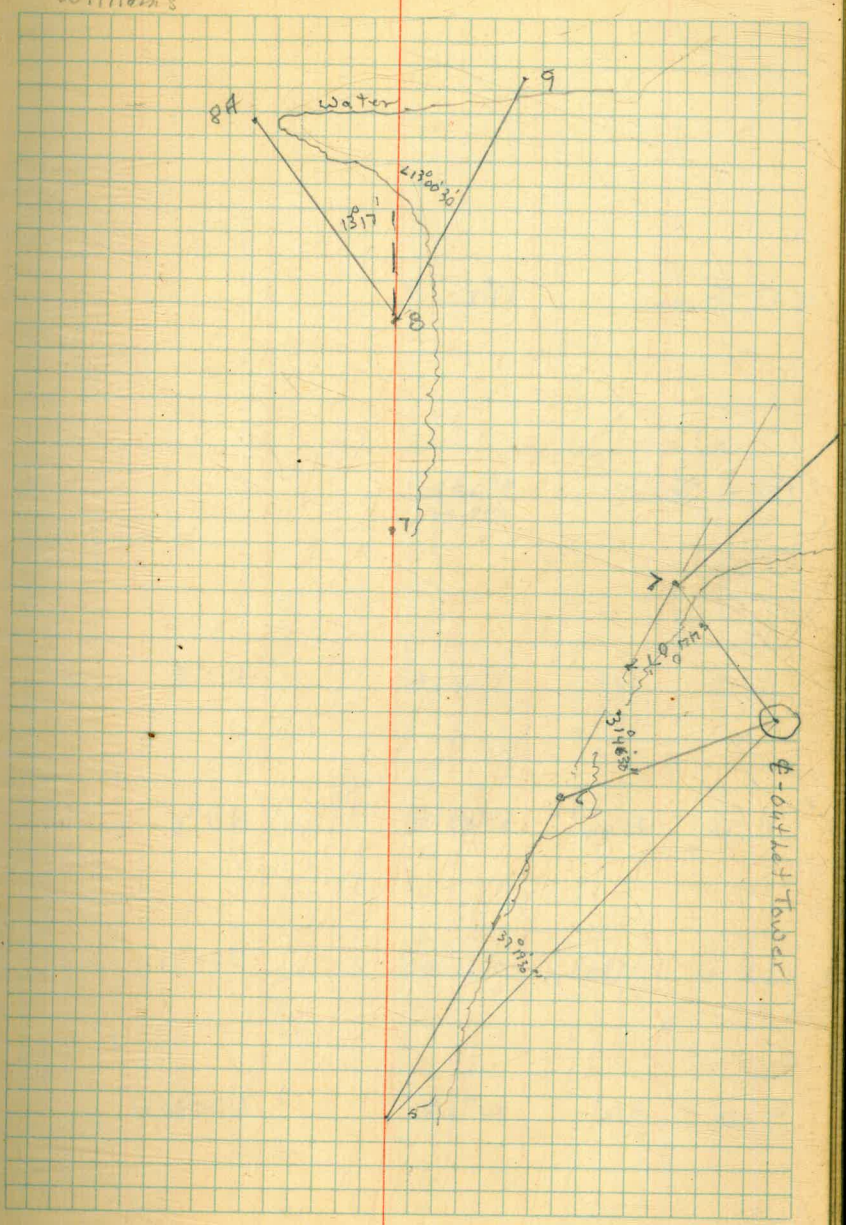
Clear

23



	Dist.	Horz. a	Mag. R.
8-9	483'	13°00'30"	N12°36'W
8-8A	284'	13°17'44"	N39°W
7-8	168'	41°44'30"R.	N25°30'W
6-7	250'	76°38'30"R.	N67°30'W
5-6	280'	28°42'R.	S32°30'W

King
West
Williams



13-12-Taxer

17° 27'

13-12-Taxer

7° 28' 30"
Inside

12-13

187'

9° 43' LT

N 1° E

11-12

1544'

33° 53' R

N 11° E

10-11

390'

3° 35' 30" R

N 22° 45' W

9-10

372'

14° LT

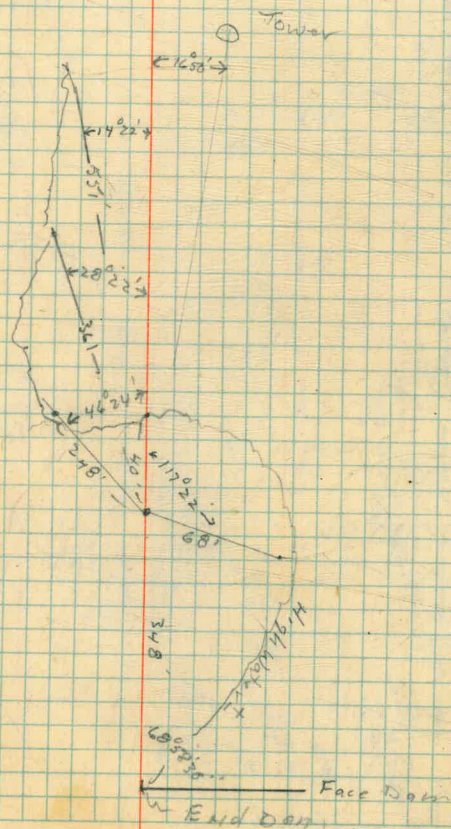
N 26° 30' W

Otay Lake
Stadia Survey - High Water
to pt opposite tower

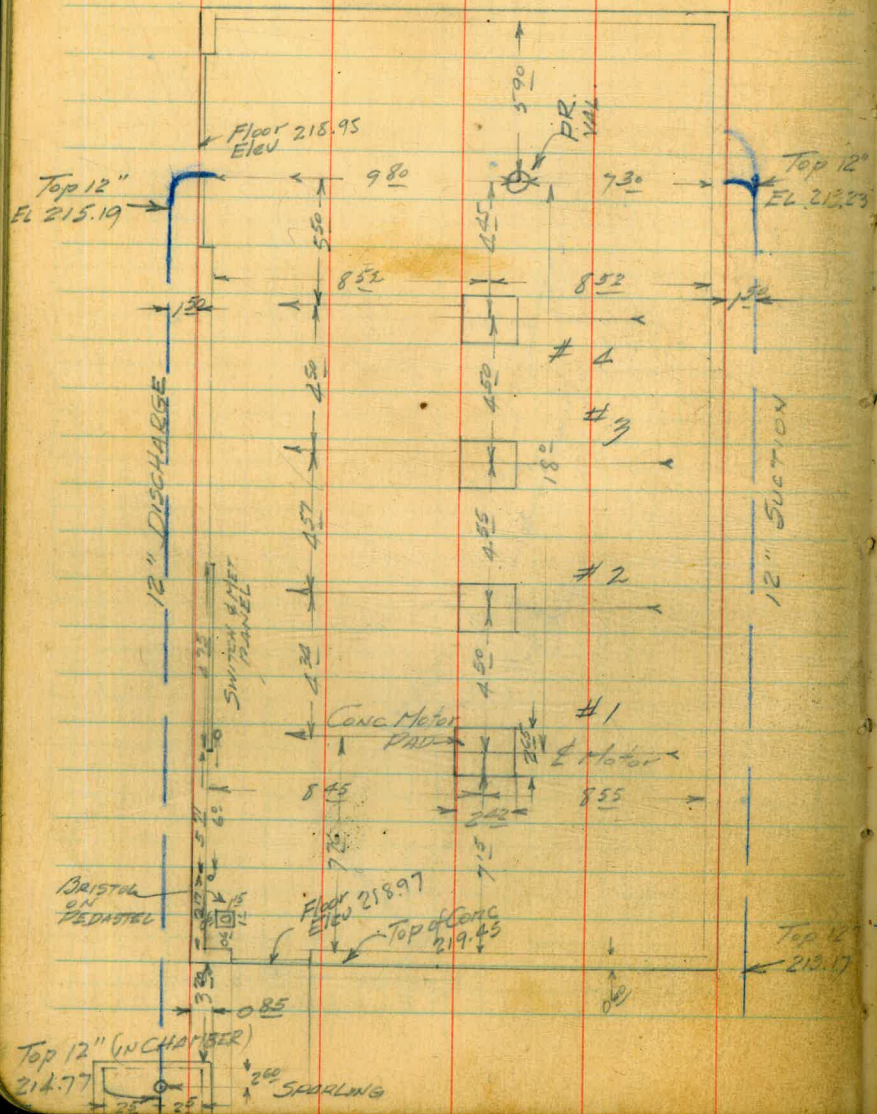
King
West
Williams

2-14-52

26



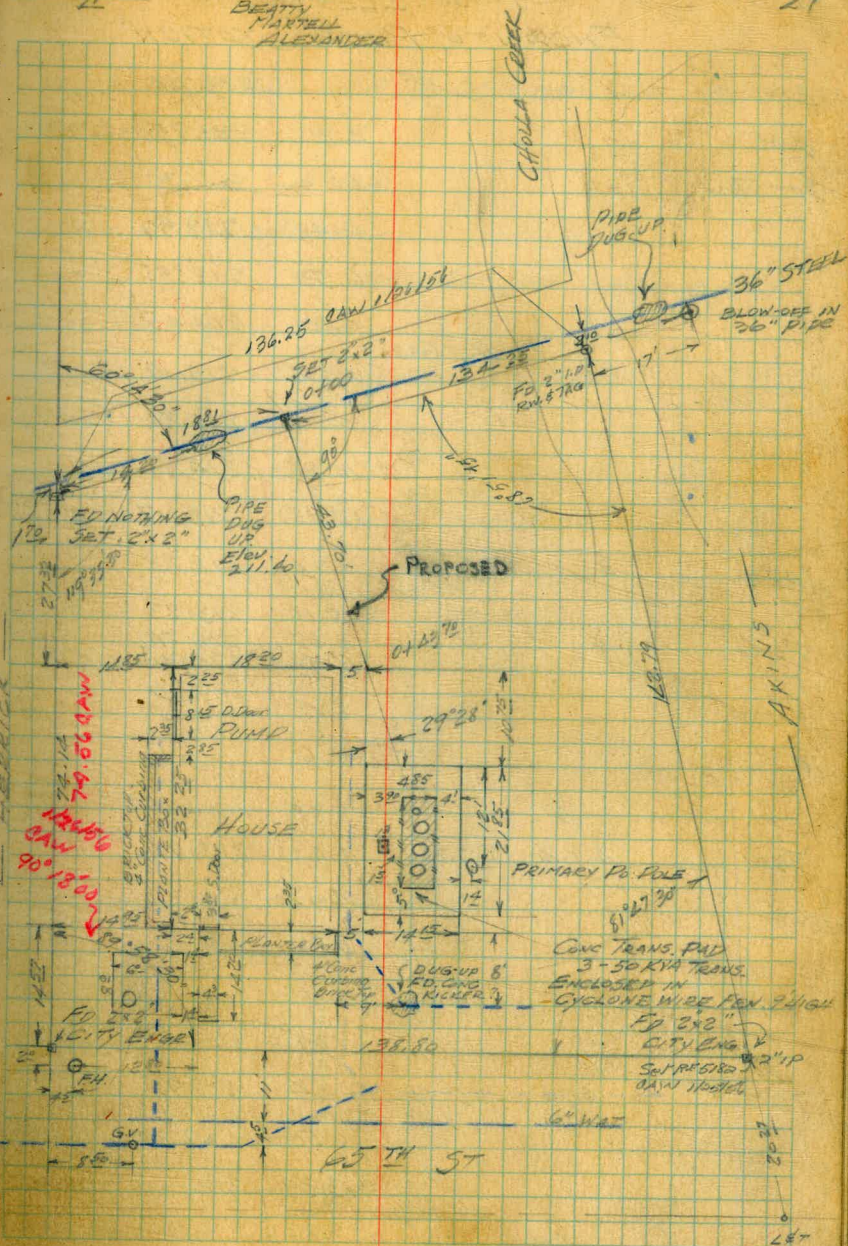
ENCANTO PUMP STATION (65th & Herriak Sts.)



APRIL 15, 1953

BETTY
MARTELL
ALEXANDER

27



MISC. ELEV.S
ENCANTO PUMP STATION

B.M.	1.69	225.45		223.764
B.M.			4.20	221.25 = 221.268
SET TBM.			6.73	218.72
			6.48	218.97
			6.50	218.95
			6.00	219.45
		NAT. GRD.	6.7	
			10.26	215.19
			10.14	215.31 (cell?)
			10.68	214.77
		NAT. GRD.	6.8	
			12.28	213.17
TBM	4.61	223.33	6.73	218.72
		NAT. GRD.	4.70	
			10.10	213.23
		NAT. GRD.	6.55	216.78
			11.93	211.60
0+00			6.2	
0+23.70			4.6	
			4.08	
TBM	4.64	223.36	4.61	218.72
			4.14	
			3.12	
			4.11	
			3.09	
TBM	6.74	225.46	4.64	218.72
			6.50	
			13.39	
		on D.C. pad	7.06	
			9.28	
CKPBM			4.21	221.25
CK BM			1.70	223.76

April 16, 1953

28

Top F.H. SE Cor 65th & Imperial (C.E. 1652-55)	
BP. SE COR " " "	
NW Cor End of Sidewalk.	
Floor of Pump House inside front door	
" " " " at Dbl Door NE Cor of Bldg	
Top Conc Footing of Bldg.	
Top of pipe 12" discharge (Ely end)	4.28 416
" " " " " " "	5.48 228
" " " " " " "	7.20 10.14
" " " " " " at Conc Chamber	
" " " " " Suction W. edge Bldg.	6.30
	5.98
	12.28
" " " " " (Ely end)	2.12
	5.98
	10.10
Top of 36" STEEL BENTONITE MAIN	6.55
	5.98
	11.93
(OTM)	
Top of Transformer Pad (±)	
Top Conc Motor Pad Wly side	
E. Brq. of Motor " "	
Top Conc Motor Pad Ely side	
E. Brq. of Motor	
Top Conc Chamber	
Conc Floor of Chamber	
Top Val Stem 12" G.V. on Discharge	

Misc. Elev. 5
(Cont'd)

B.M.	1.83	220.55	218.72
		2.65	217.9
		6.95	213.6

4-22-53

29

NAT. GRD

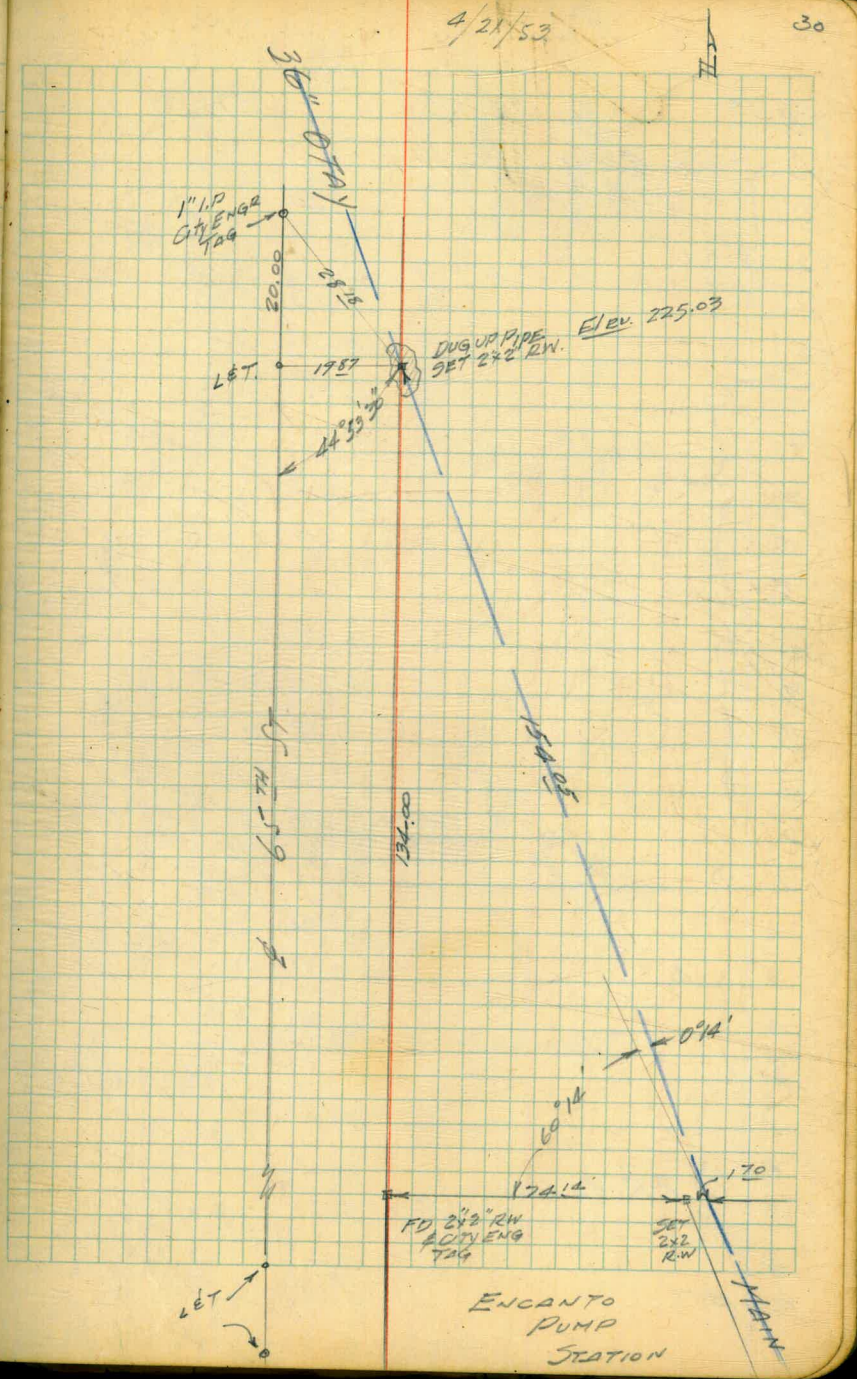
Top of Conc. at 45° Bend (suction) 8' out 9' south of
SE COR PUMP HOUSE
(SEE SKETCH)

ADDITIONAL TIES TO 36" OTAY MAIN

TOM	11.00	229.72	218.72
Top 36" STEEL Pipe	4.69	225.03	
NAT. GRD	0.10	229.7	

4/21/53

30

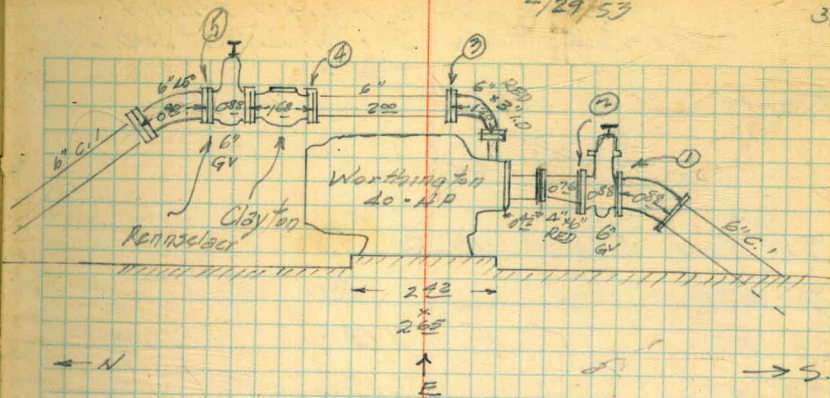


ELEVATIONS OF PIPING ENCANTO PUMP PLANT

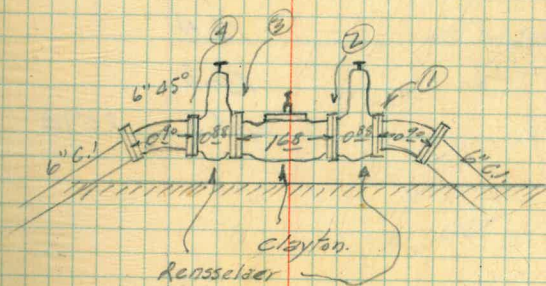
BM	5.36	224.08	218.72
①	Top RANGE 6°45' Bend		3.47
②			3.49
③	} #1		2.02
④			2.03
⑤			2.01
1			3.50
2	} #2		3.50
3			2.01
4			1.99
5			1.98
1			3.51
②	} #3		3.51
③			2.02
④			2.01
⑤			2.01
1			3.46
2	} 4		3.45
3			1.99
4			2.00
5			2.02
1			3.67
2	} P.R.V. Ass.		3.67
3			3.66
4			3.64
CK BM			5.36

4/29/53

31



4 - IDENTICAL PUMPS
From West 1, 2, 3, 4



P.R.V. Assembly

ENCANTO PUMP PLANT
X-SECTION SOUTH, Elect. Sub Sta

TBM 5.36 224.08 218.72

SW Cor Elect Sub Sta 5.8

7' RT 6.0

23 RT 13.3

29' RT 13.5

30 RT 14.9

SE Cor Elect Sub Sta 5.6

13' RT 6.3 217.8

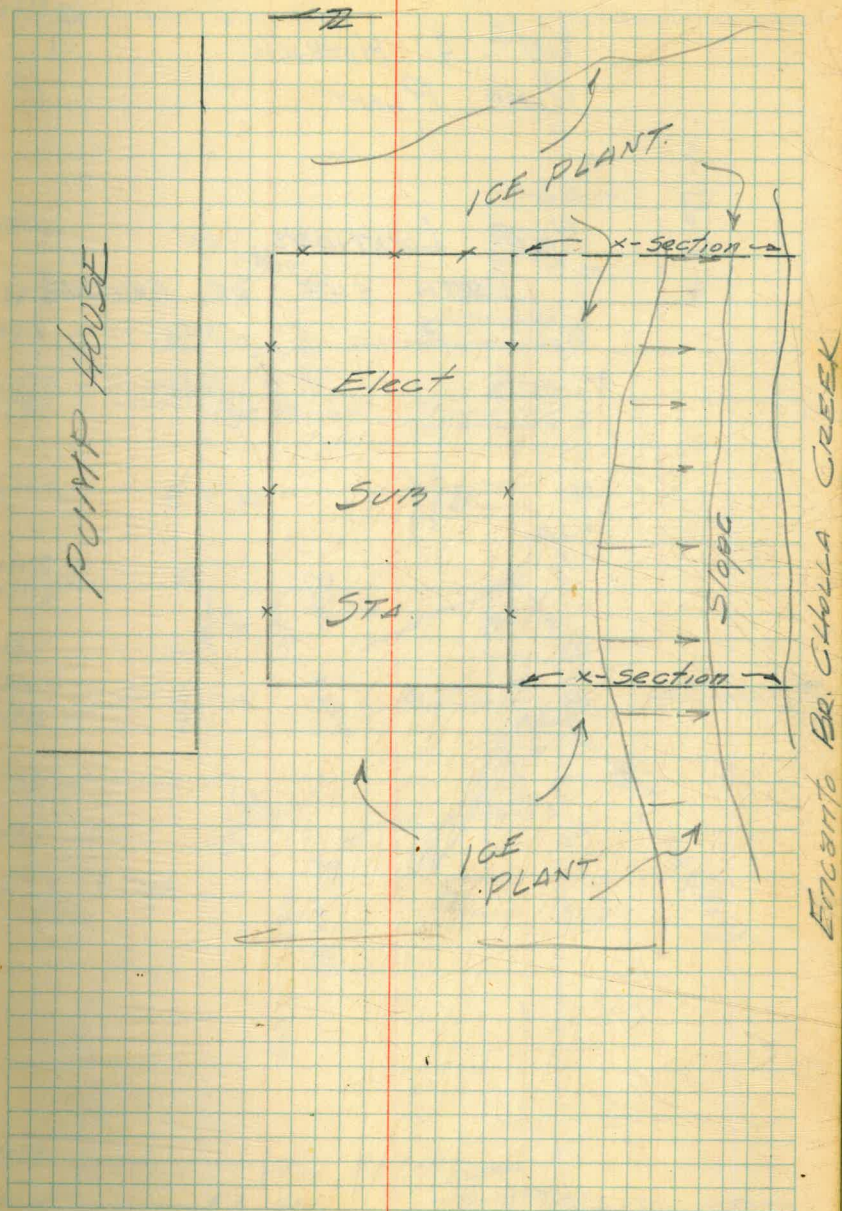
23' RT 13.4

30' RT 13.8

32' RT 14.8 209.3

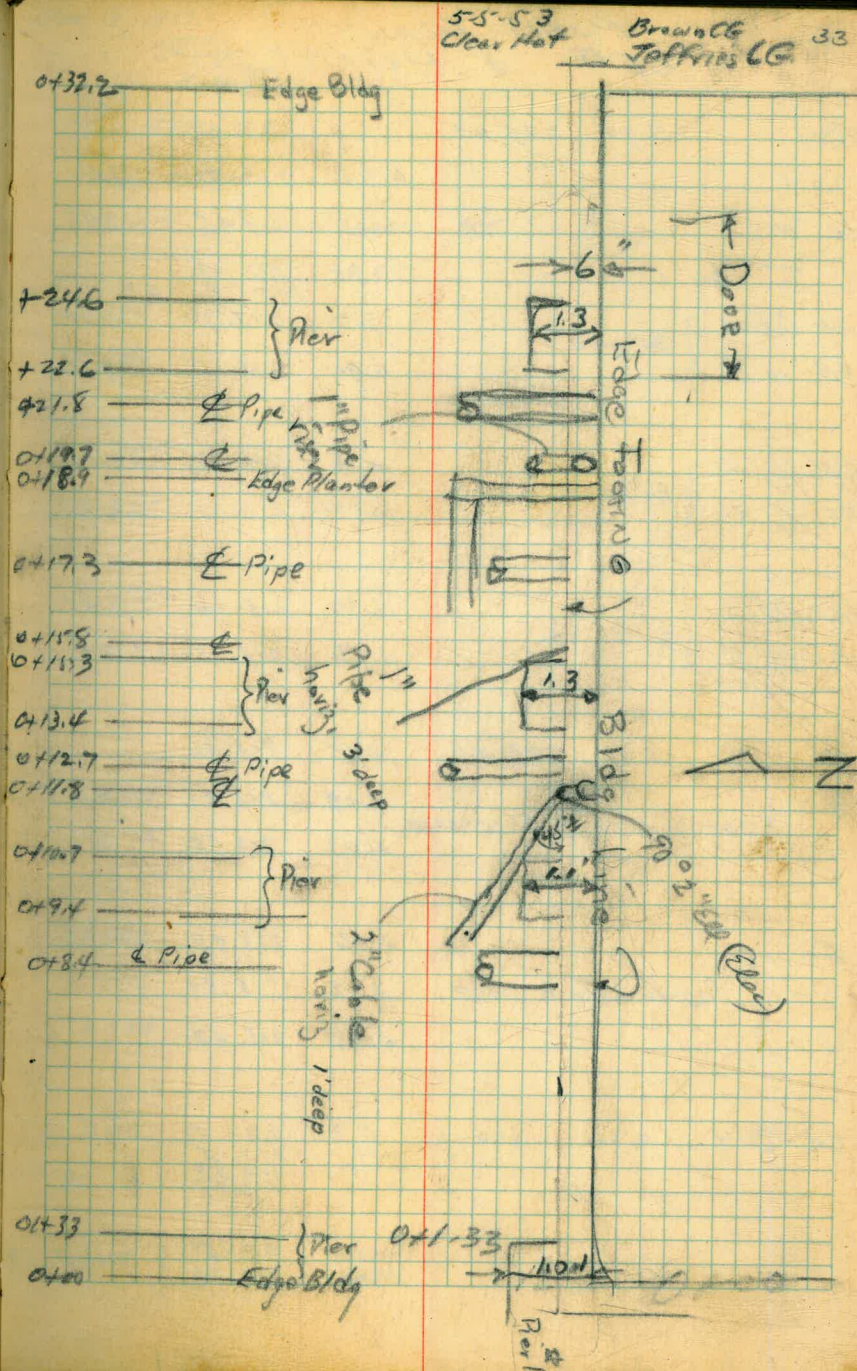
4/29/53

32



65th & HERRICK
PUMP PLANT

PIER LOCATIONS ON
NORTH SIDE OF BUILDING



PUMP PLANT
65th & Herrick

TOM	2.90	225.03		222.13
TOM			6.32	218.71 = 218.72
CK #			6.08	218.95 = 218.95
Top 36" OTAY PIPE			13.35	211.68 210.15 = E PIPE
RP 10 N	}	30° Wye.	7.30	217.73 209.74
RP 10 S			6.90	218.12 209.74
RP 5 N	}	30° BEND	6.16	218.87 210.23
RP 5 S			6.22	218.81 210.23
RP 12 S	}	E Val Box	6.37	218.66 213.89
RP 10 N			6.88	218.15 213.89
P	2.05	223.01	6.07	218.96
E	}	inside Bldg. & Discharge	4.09	218.92 214.25
W			4.03	218.98 "
E	}	inside Bldg & SUCT.	4.06	218.95 210.93
3' N.			4.12	218.89 "
3' S			4.09	218.92 "
CK TB14	2.04	224.17	0.88	222.13 = 222.13
			11.02	213.15
			10.78	213.39
			10.70	213.47
				} 213.45
			10.66	213.51
			10.63	213.54
				} 213.65

DEC 7 1953

LEATHY
SHOPEL
MARTELL
ALEXANDER

Top. FH
disturbed
Floor @ Dbl Door. NE Cor. Bldg.
C800
C840
C865
C840
C480
C425
C467
C473
C802
C796
C799
12/11/53

65th & Herrick
(Cont'd.)

BM	194	224.07	222.13
		Top Flange 9.12	214.95
		& pipe	214.38 = 214.25

		Top Flange 8.88	215.19
		& pipe	212.21 = 214.25

12/18/53

BM	197	224.10	222.13
		E. End dis. header 9.28	214.82
			<u>214.25</u> OK

		W. End dis. head 8.85	215.25
			<u>- .99</u>
			214.26 OK

	7.77	216.33 = 216.38
--	------	-----------------

	7.73	216.37 "
--	------	----------

	7.74	216.36
--	------	--------

	7.72	216.36
--	------	--------

Flange dia. 1.13
1/2 = .565

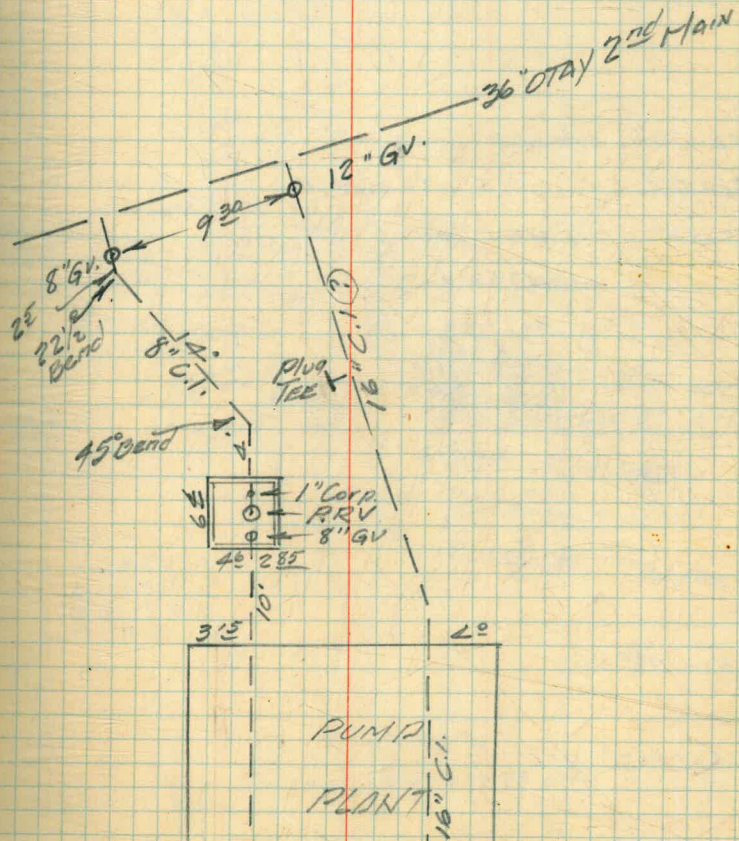
Flange dia = 1.97
1/2 = .985

65TH & HERRICK
Pump Plant

May 11, 1956

Beatty 12

36



OTAY WOOD STAVE LINE
STA. 647+00 TO STA. 662+50

652+76^c Nly edge Conc. Pavt.
652+69^c & SKYLINE DRIVE
652+50^c Sly edge Conc. Pavt.

652+489 x RT 0°04' RT

650+108^o E.C.

649+28^o P.I. A 13°15' LT
T 83.25.

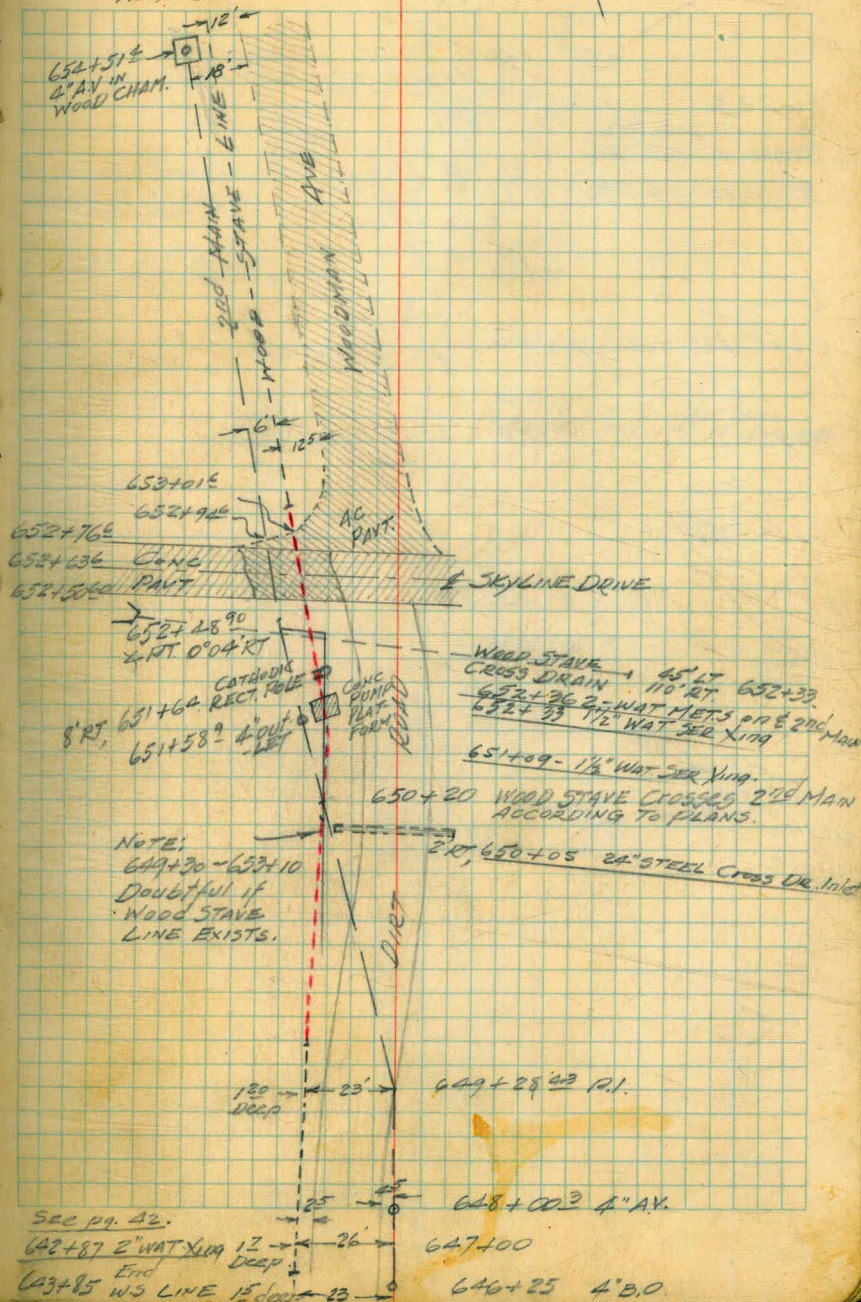
648+25¹⁸ B.C.

647+00

NOTE:- STATIONING IS ON 2ND MAIN
AS NO WAY TO DETERMINE STATIONING
OF WOOD STAVE LINE

FEB. 16, 1952
BOATY
SHARKEY
MARTIN
ALEXANDER

37



OTAY WOOD STAVE LINE
(Cont'd.)

NOTE Wood Stave Apparently in
To Approx. STA 663+50

662+50

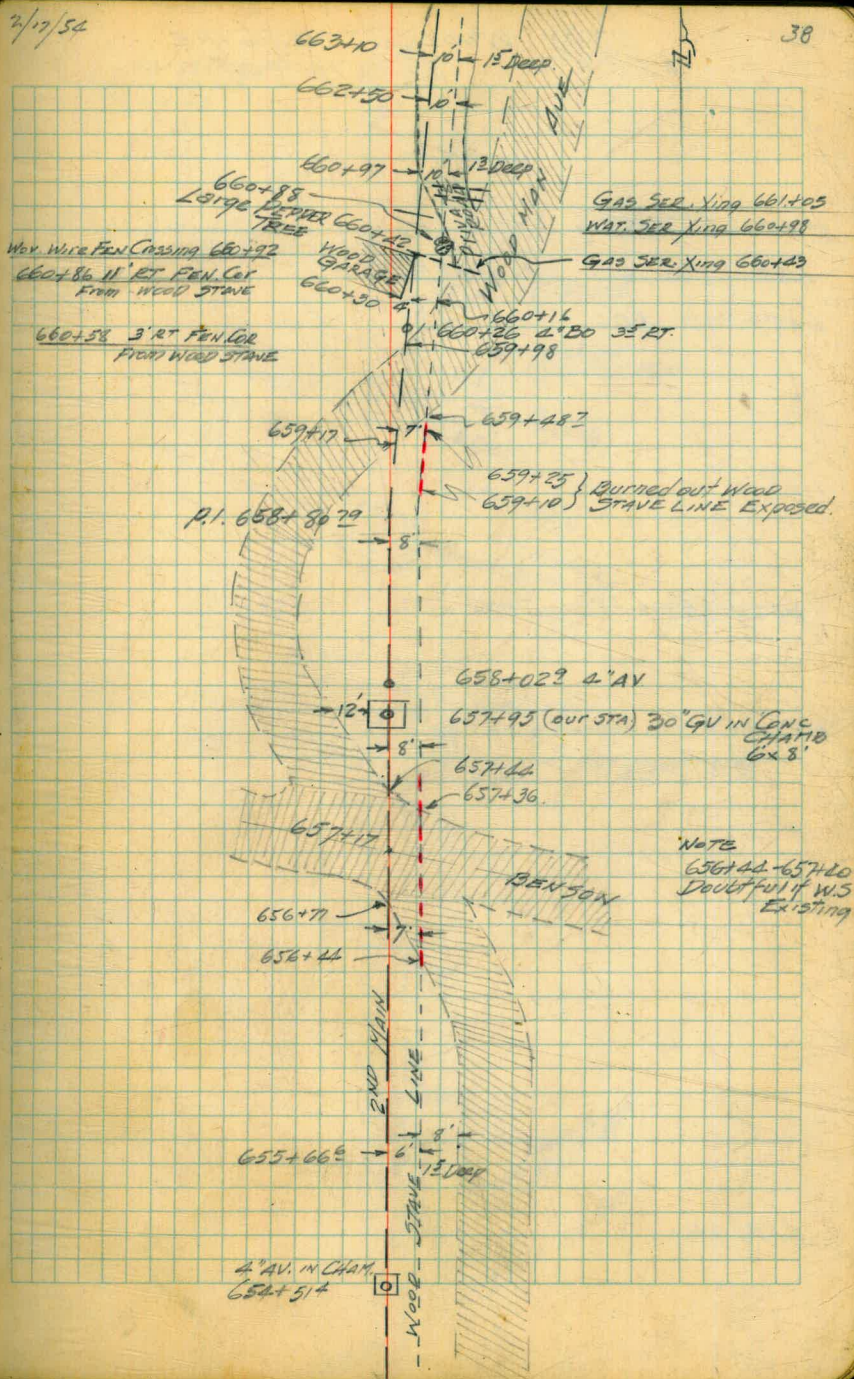
659+18.54 EC.

658+80.79 P.I. $\Delta = 6^{\circ}03' RT$

658+42.91 BC.

7/17/54

38



OTAY Wood STAVE LINE
688+00 To 700+00

690+2984 EG.

689+9308 P.I. $\Delta = 24^{\circ} 13' LT$

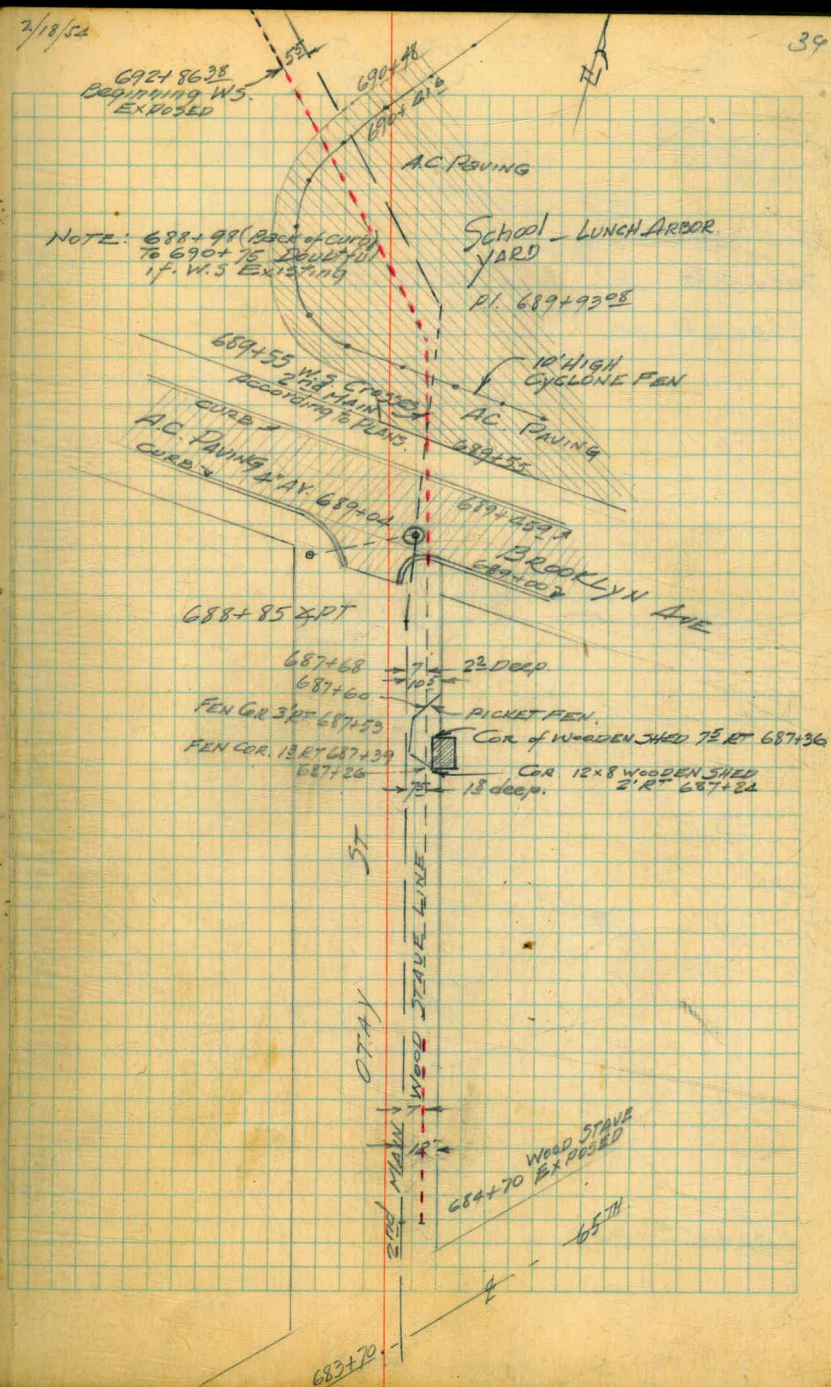
689+5416 BC.

688+85 XPT. 500' RT.

683+70

2/18/52

39



OTAY WOOD STAVE LINE
(Cont'd.)

703+84.34 EC

703+50.80 P.I. $\Delta 10^{\circ}48'LT.$

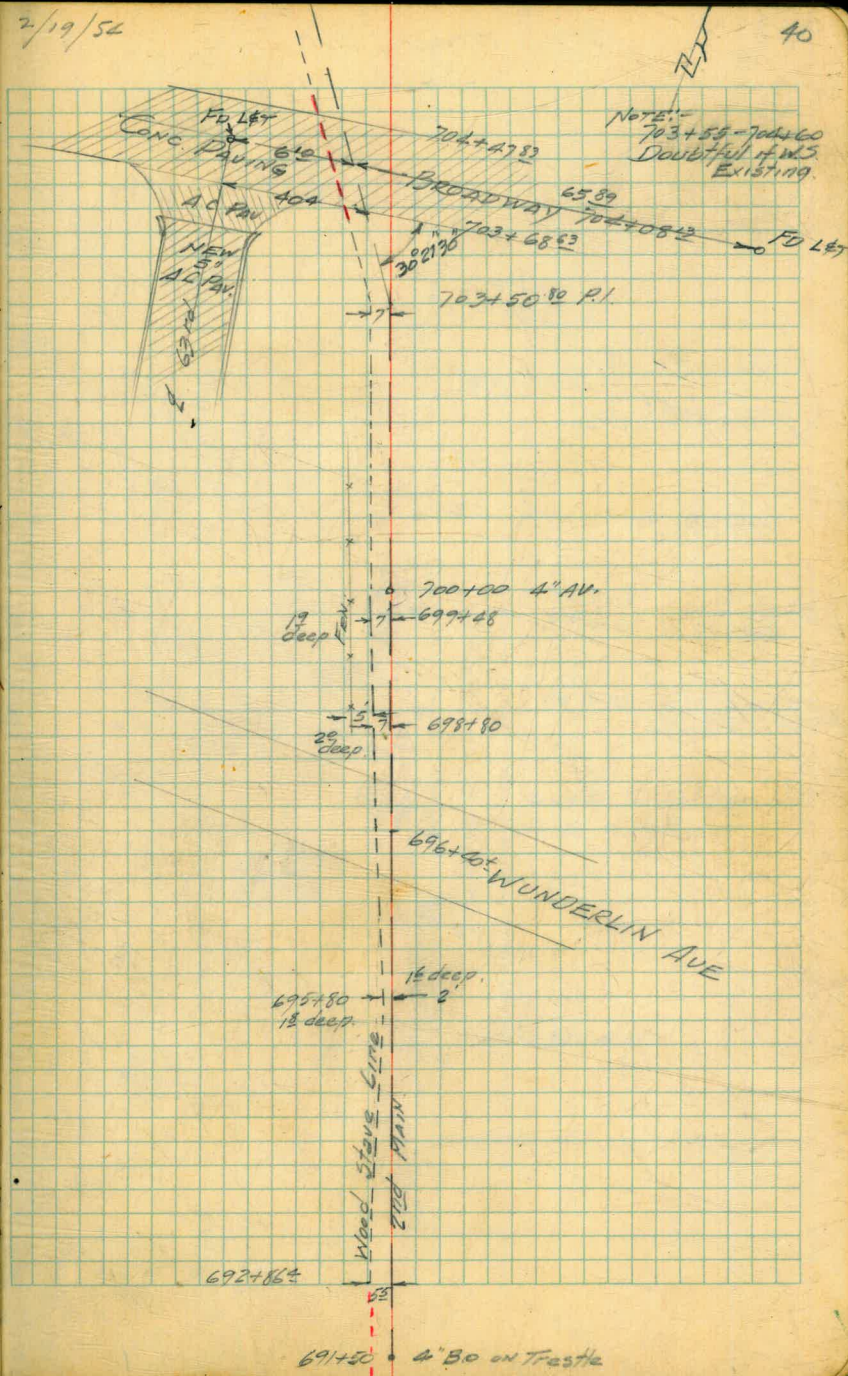
703+16.82 BC

700+00 POT

692+86.4 POT

2/19/54

40



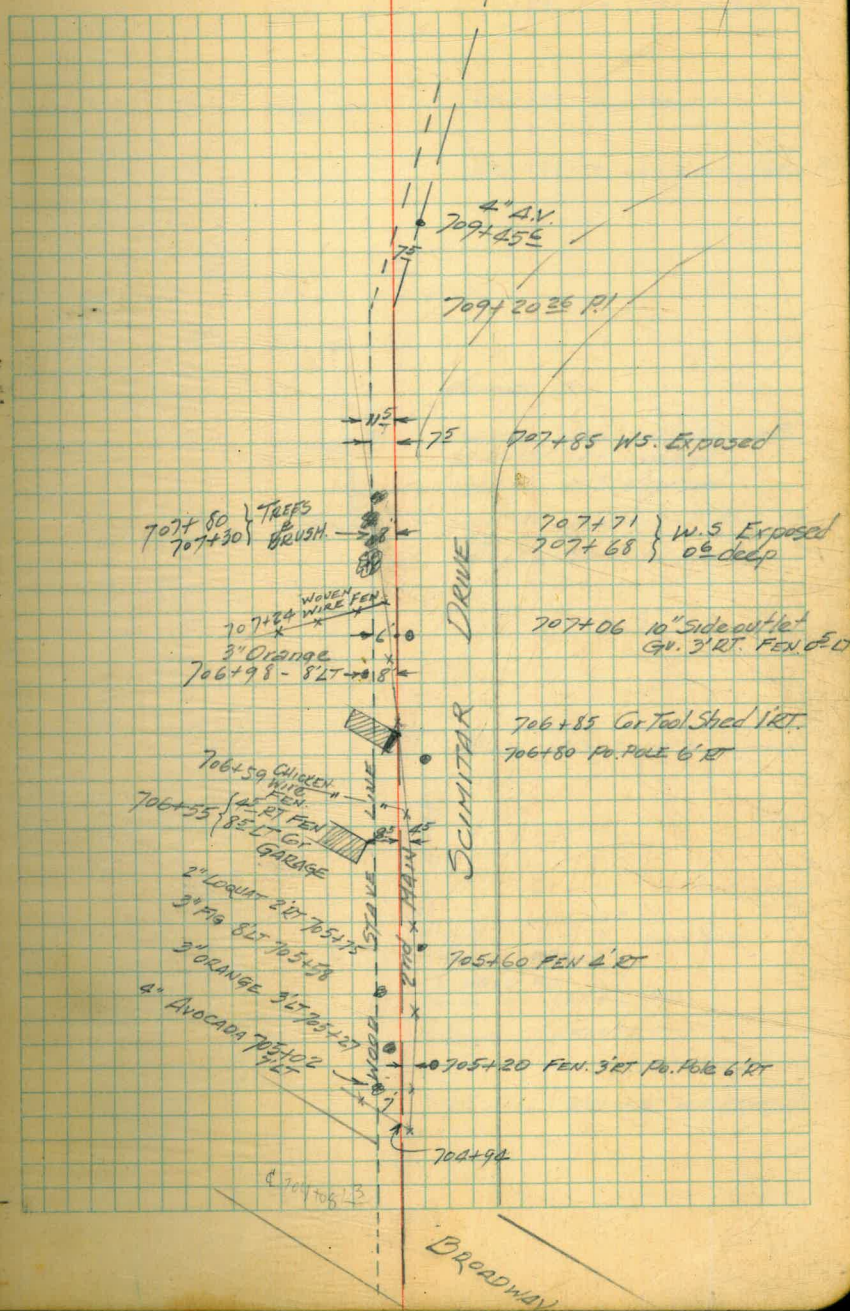
OTAY WOOD STAKE LINE
(Cont'd.)

709+20.26 P.I.

708+68.6 BC

7/19/52

41

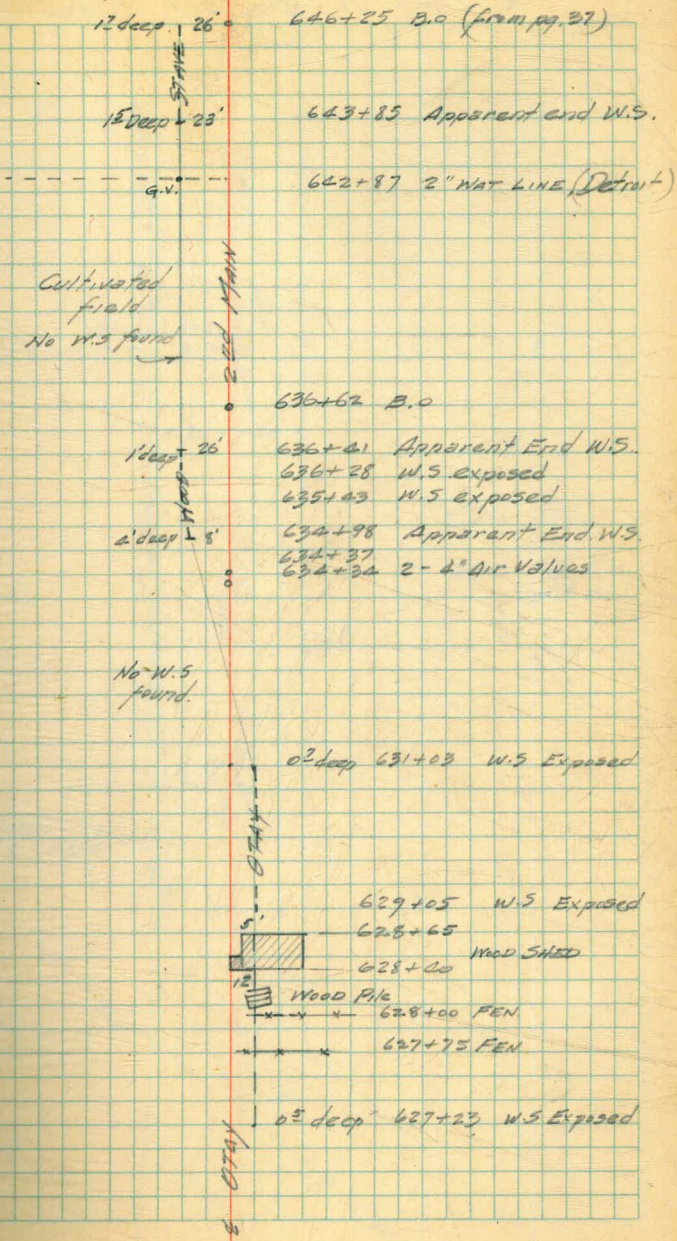


OTAY WOOD STAVE LINE

3/18/52

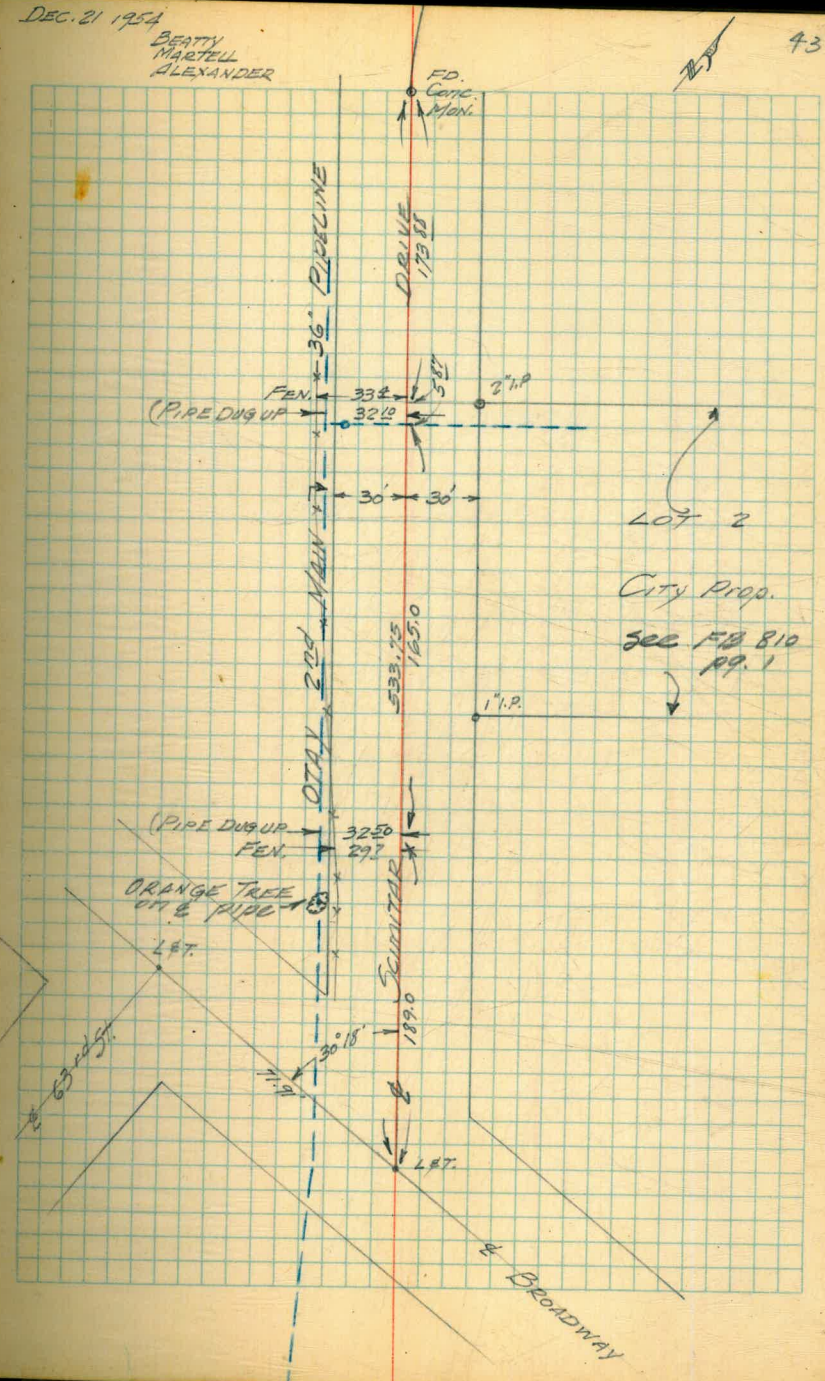
42

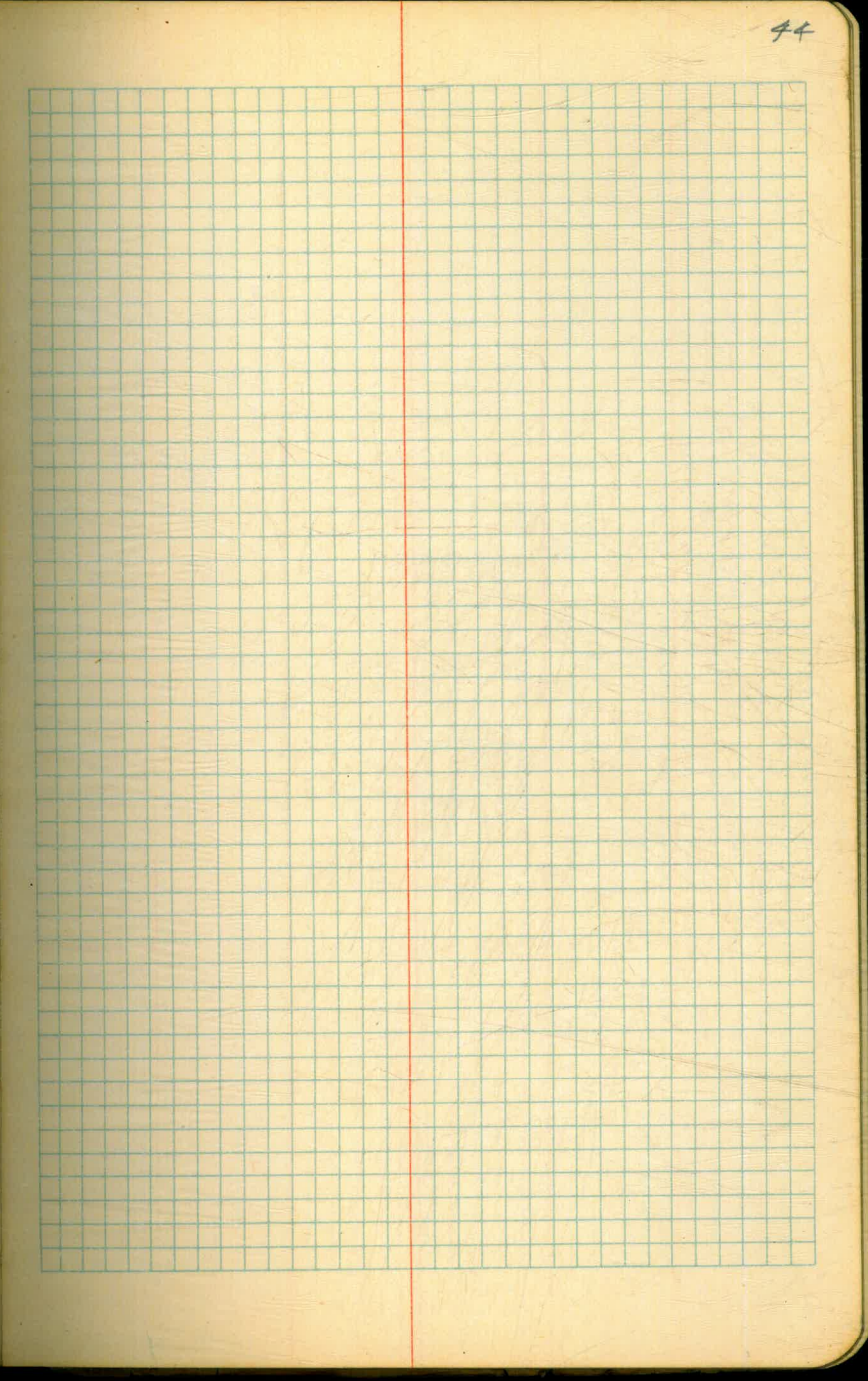
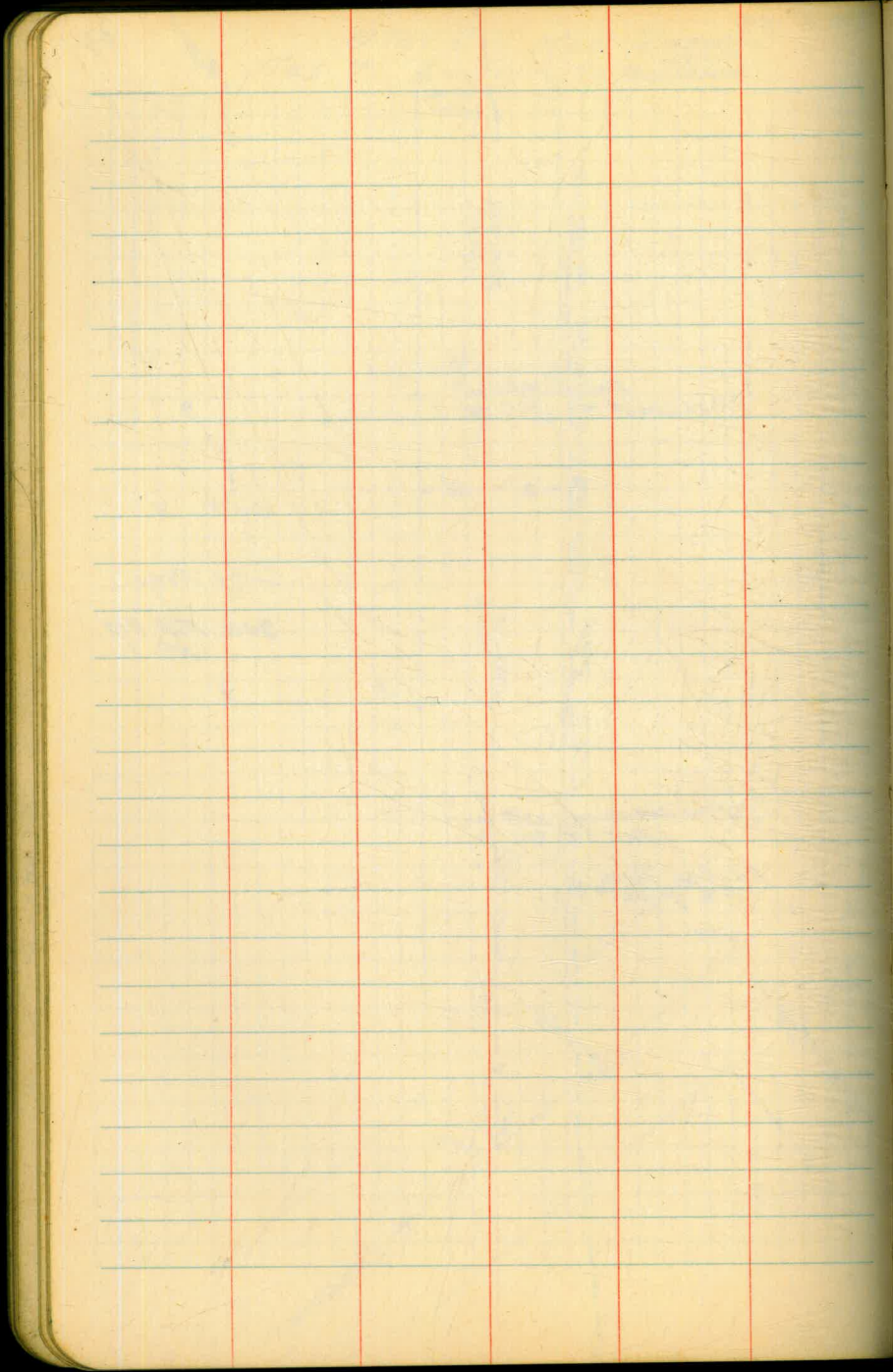
II

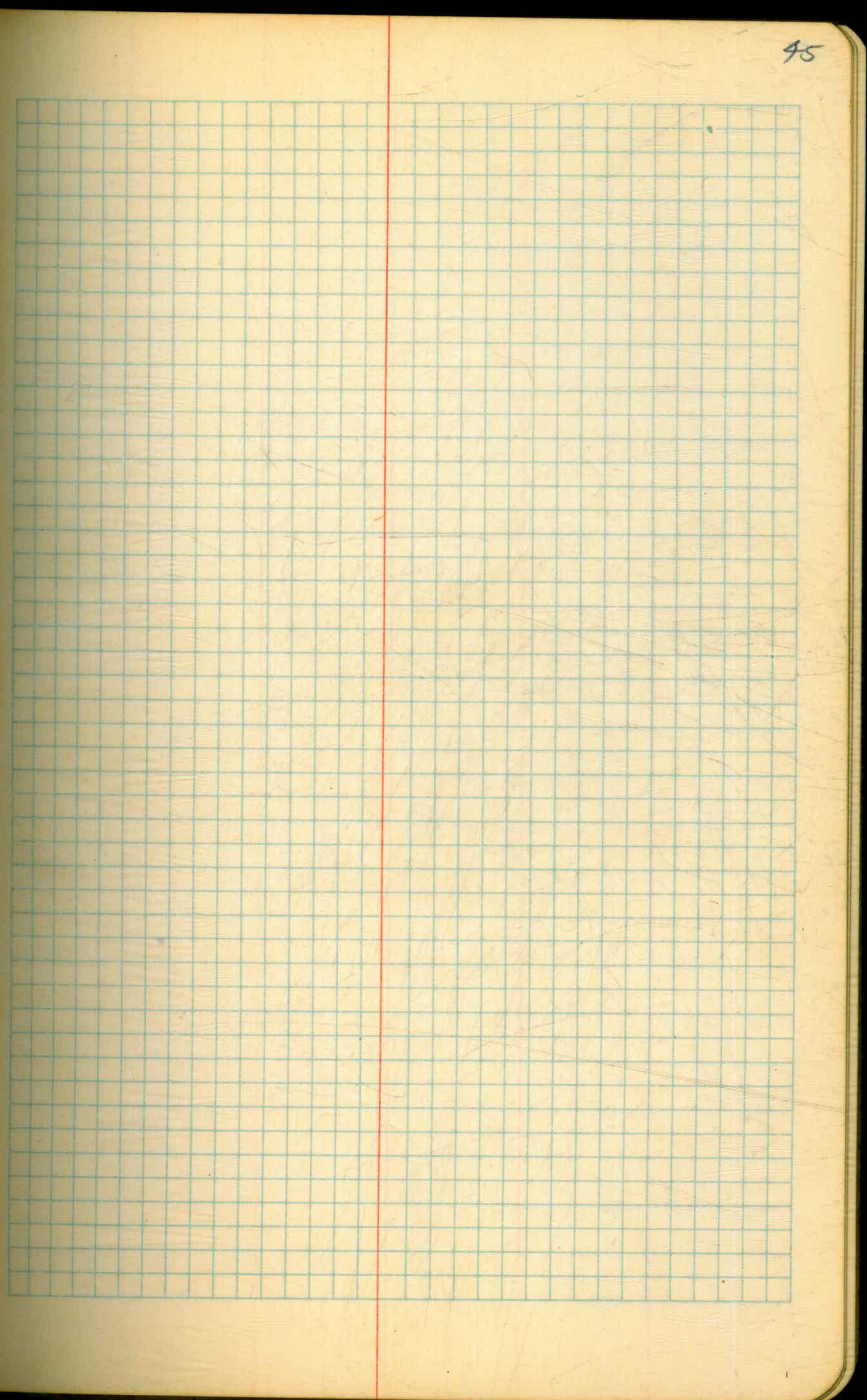
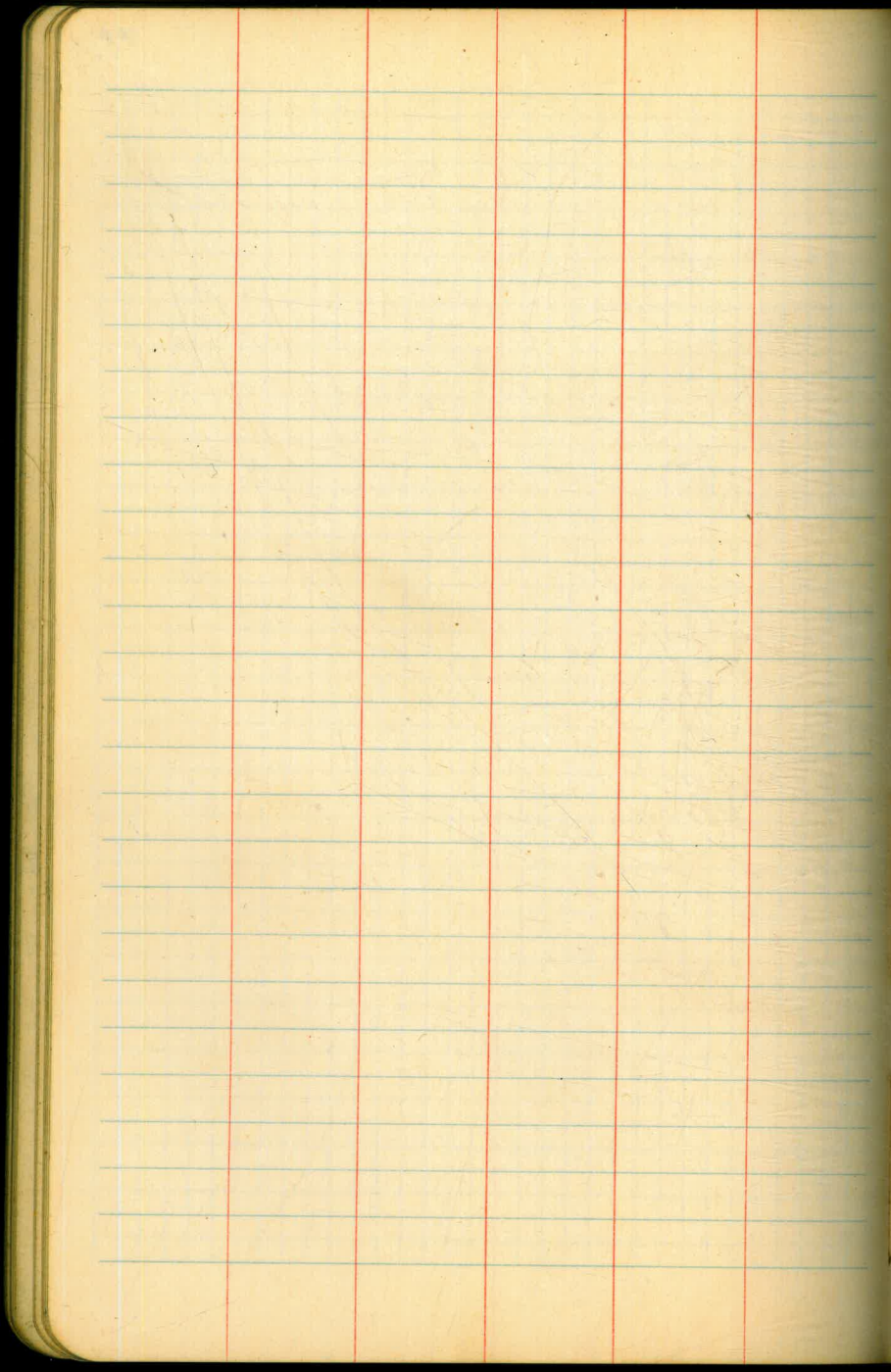


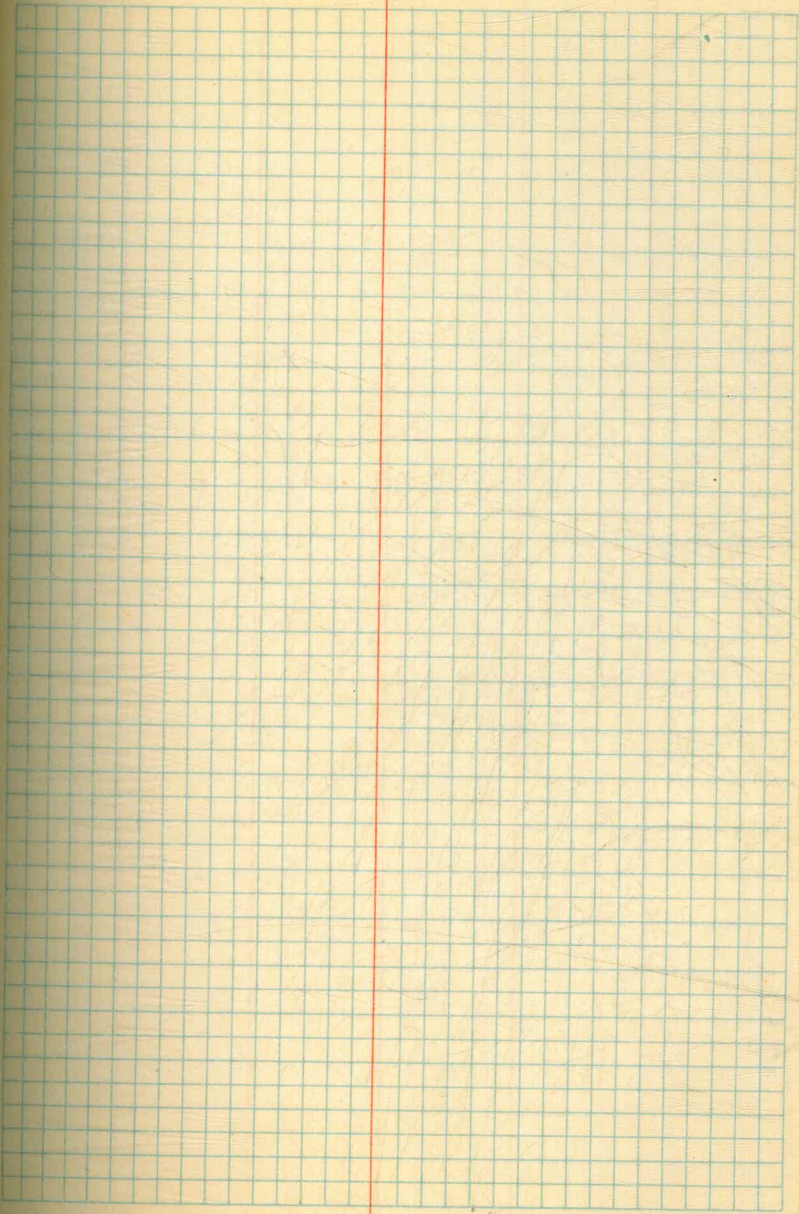
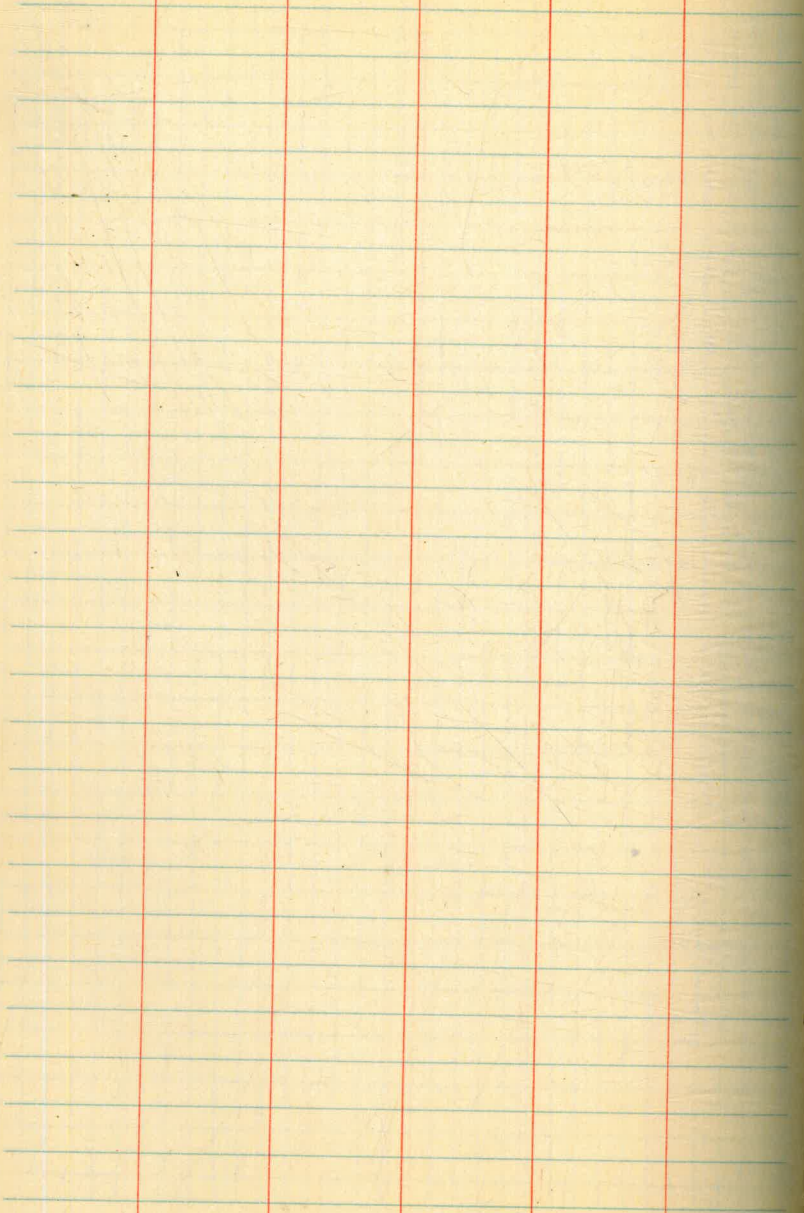
OTAY 2nd MAIN PIPELINE
TIES TO E SCIMITAR DRIVE.

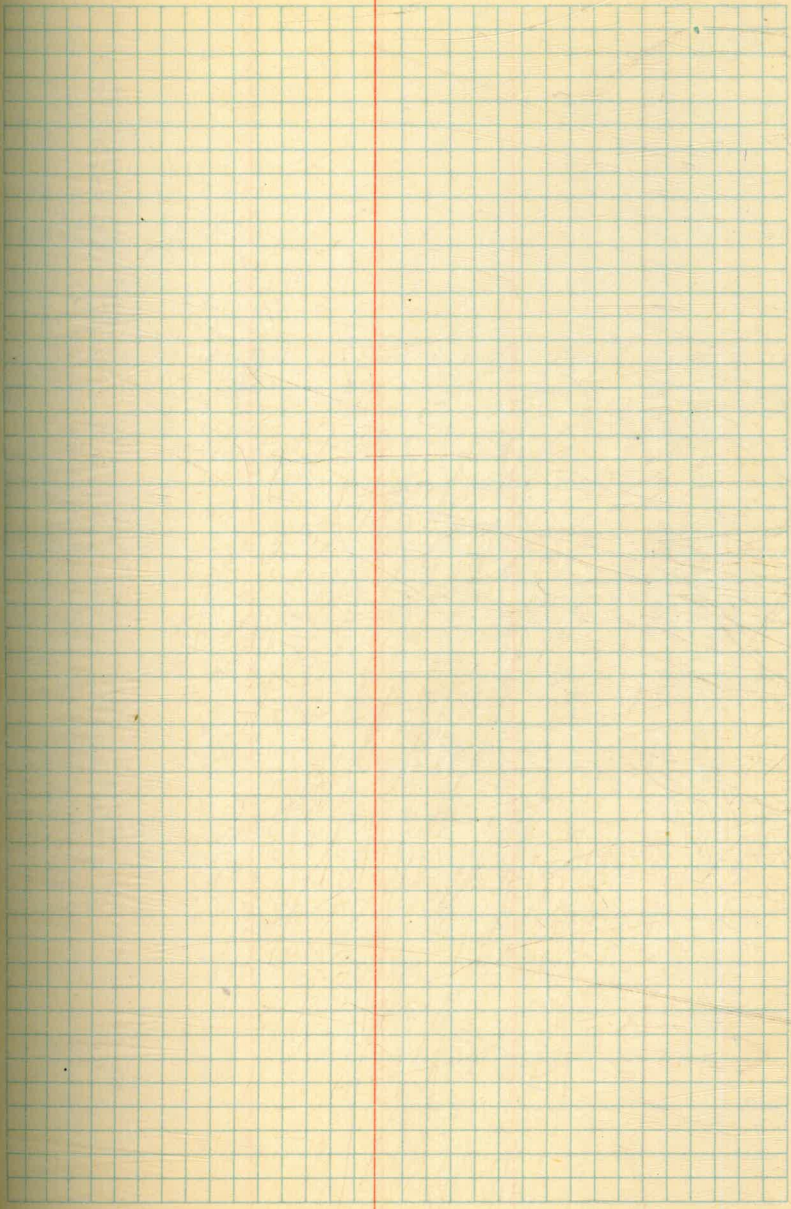
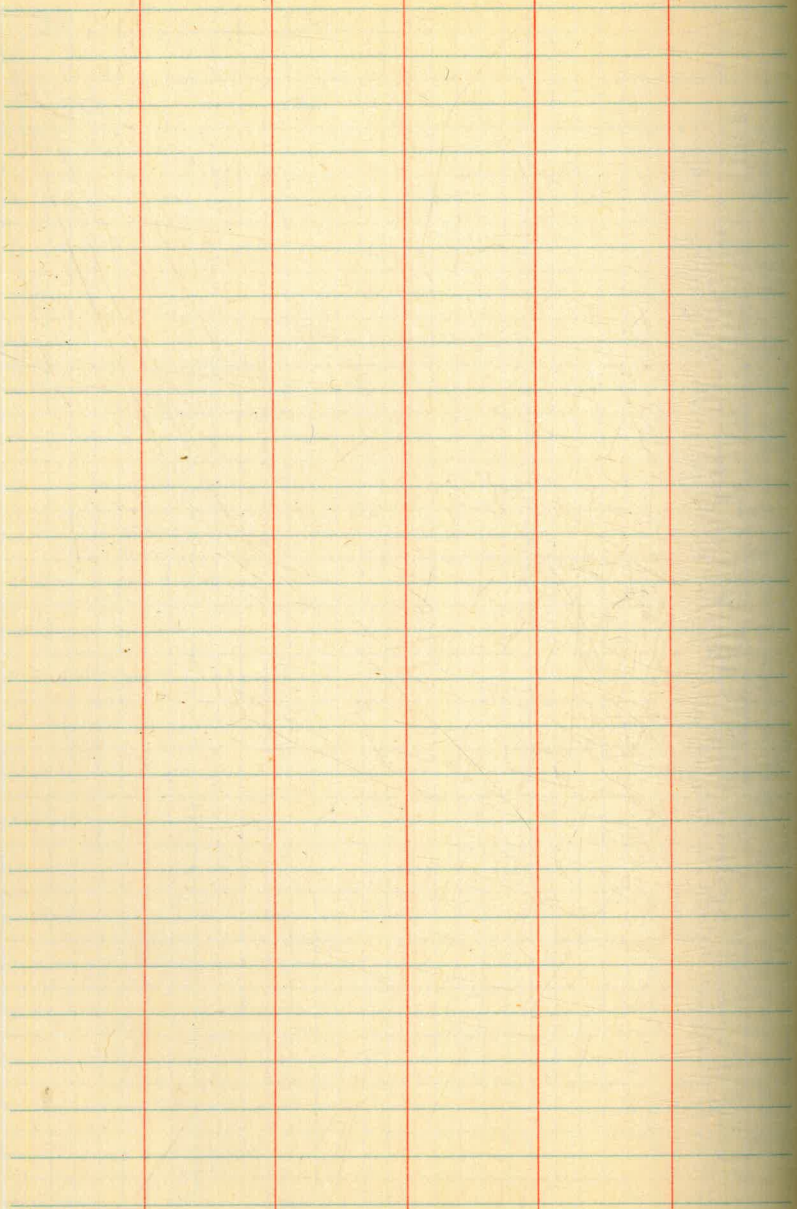
DEC. 21 1954
BEATTY
MARTELL
ALEXANDER

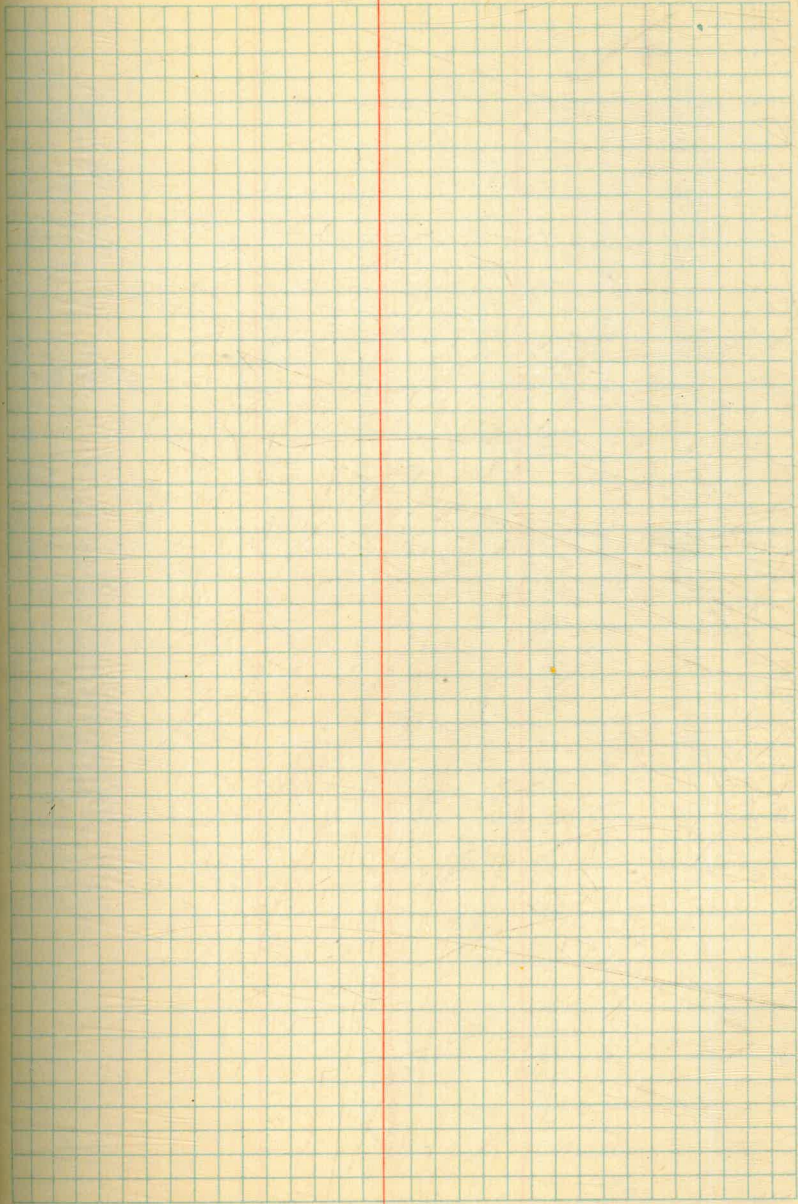
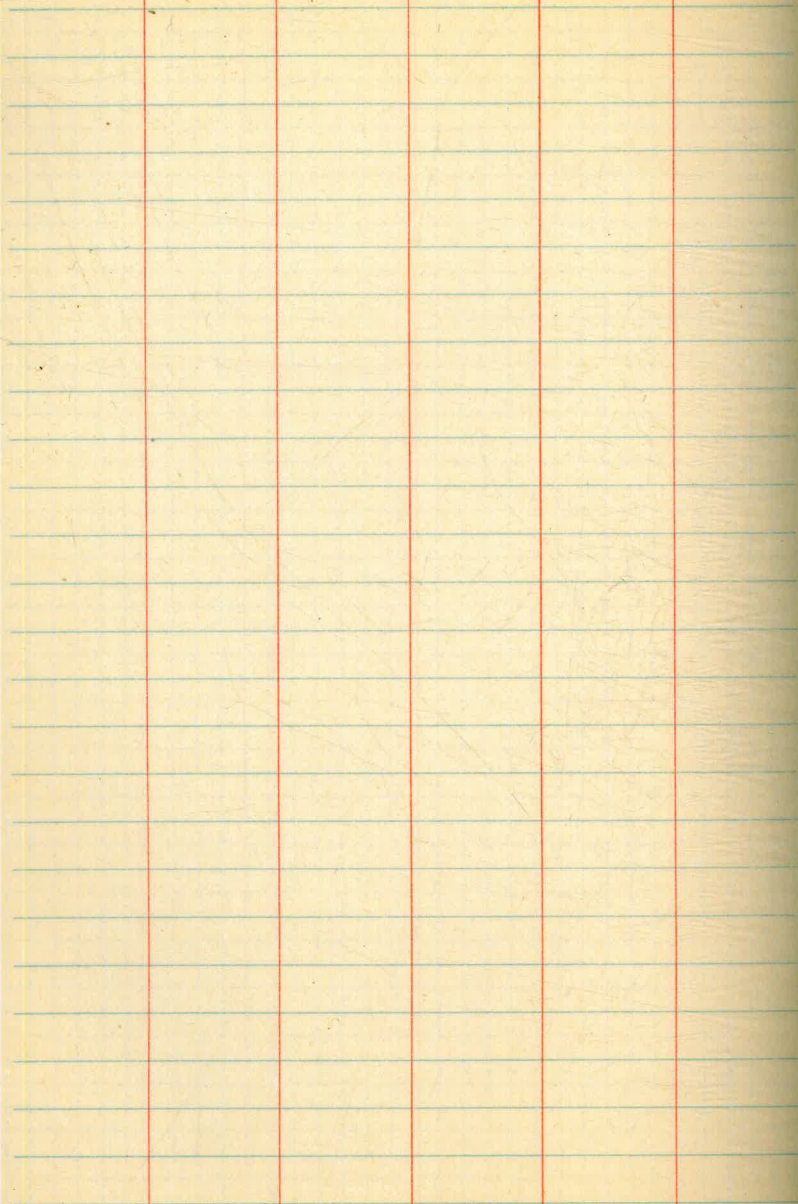


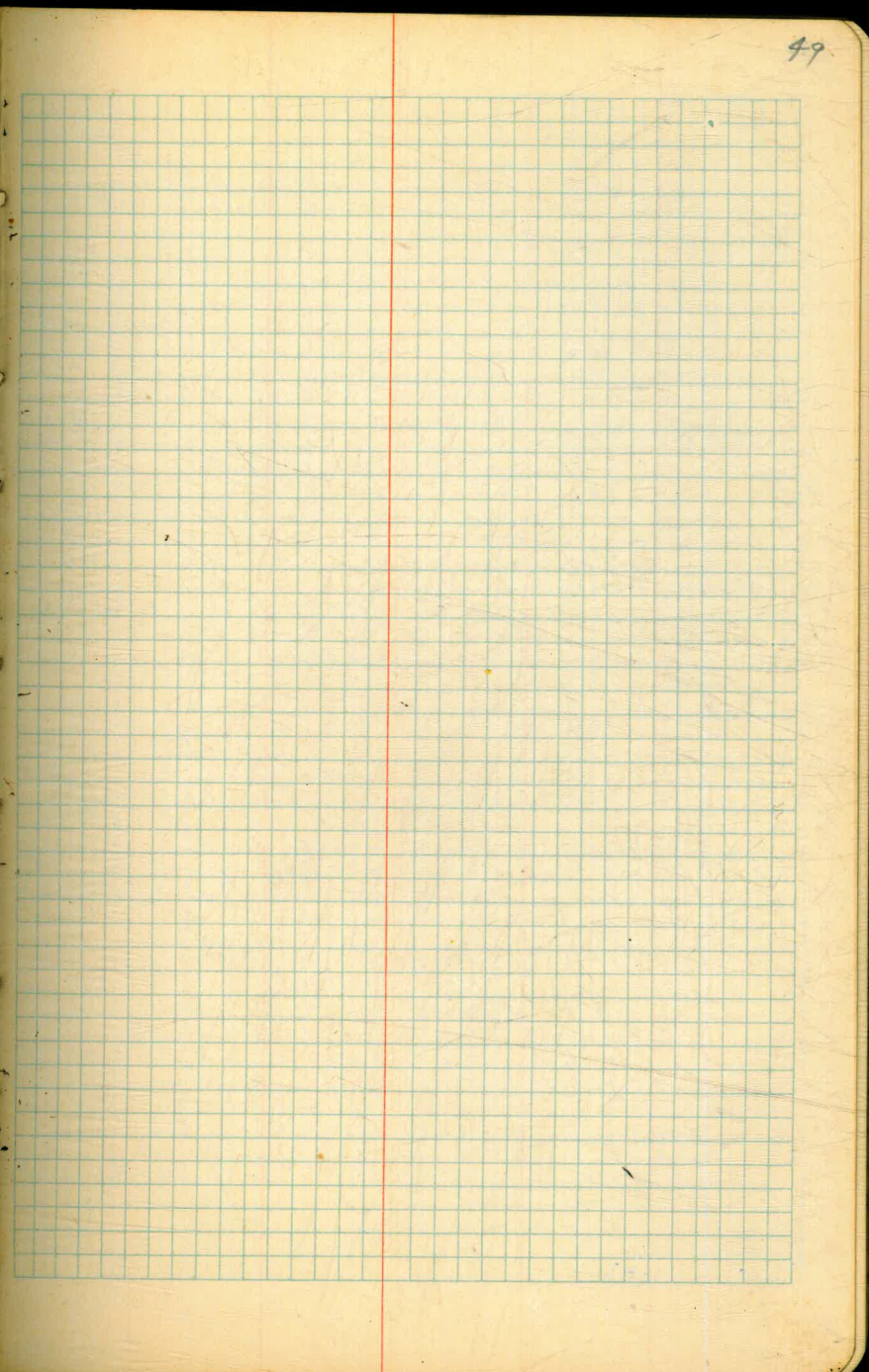
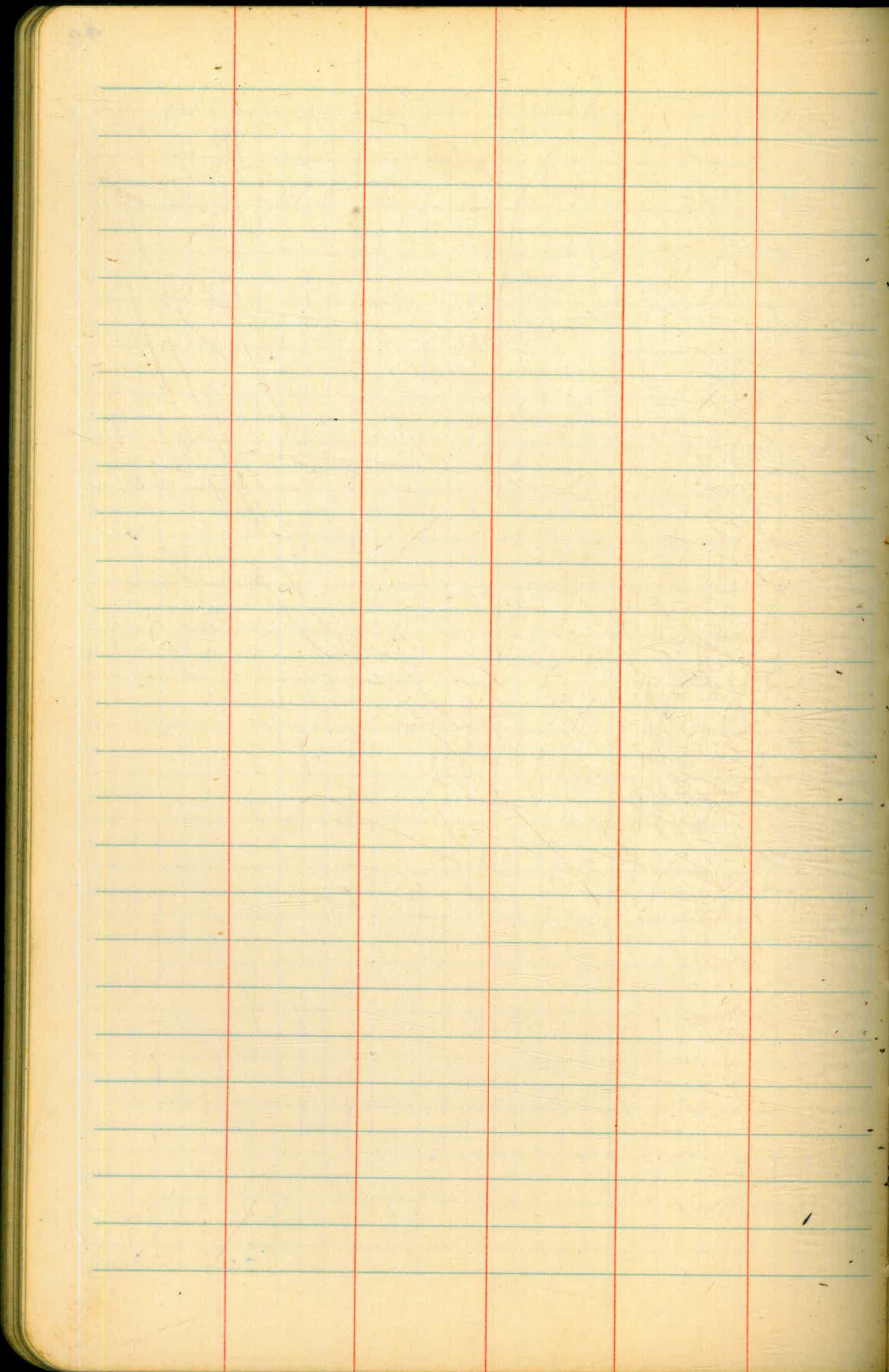


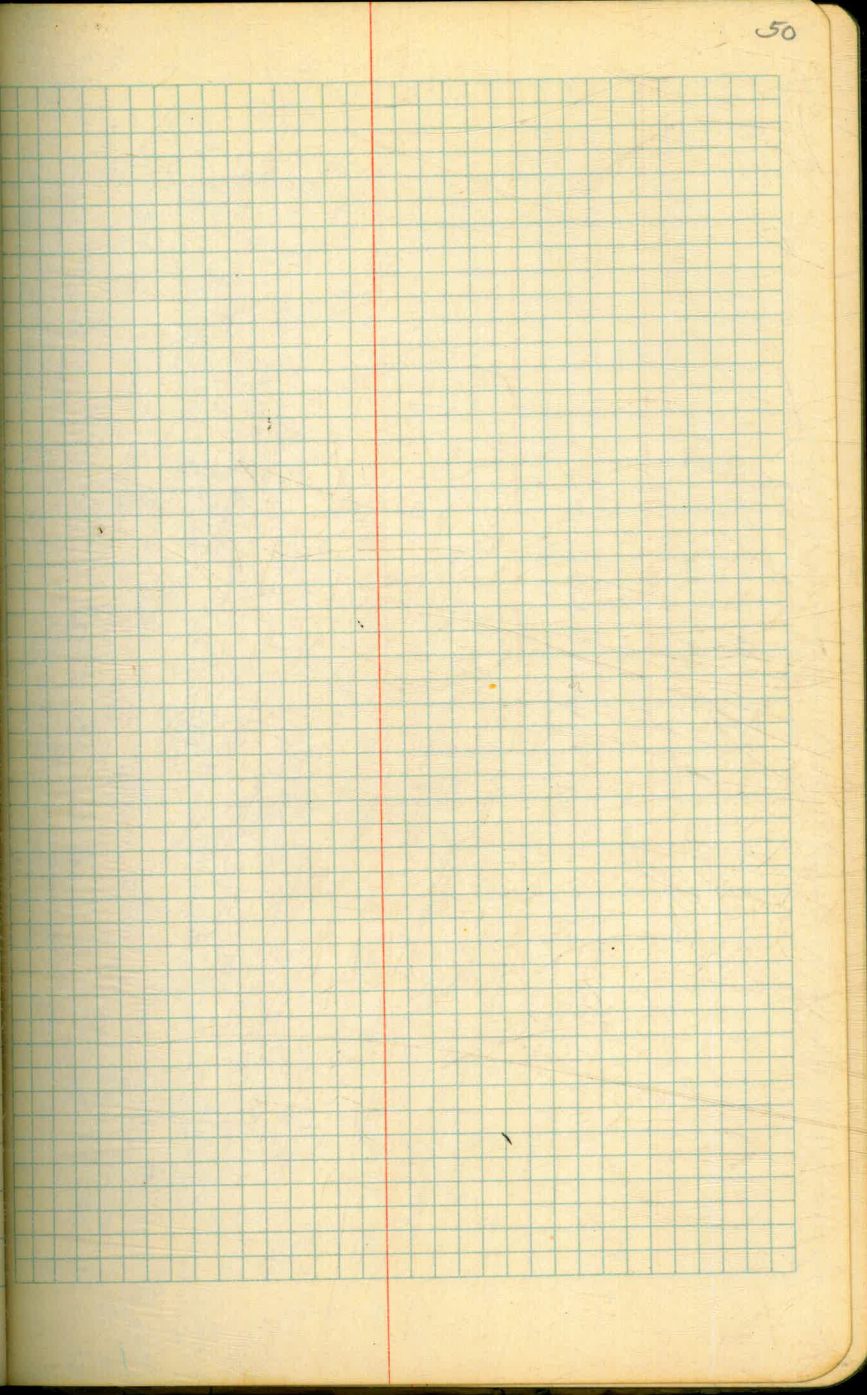
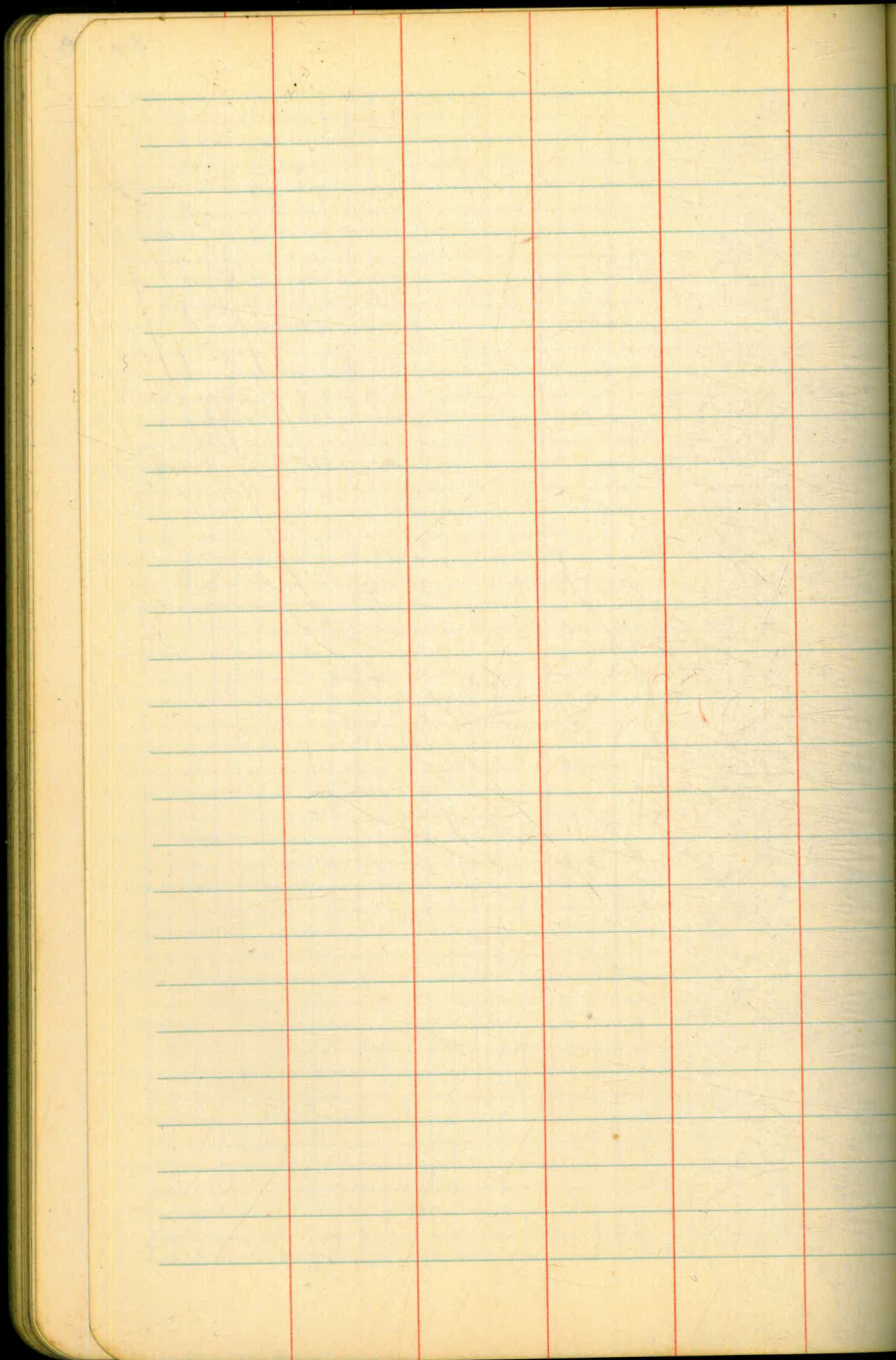


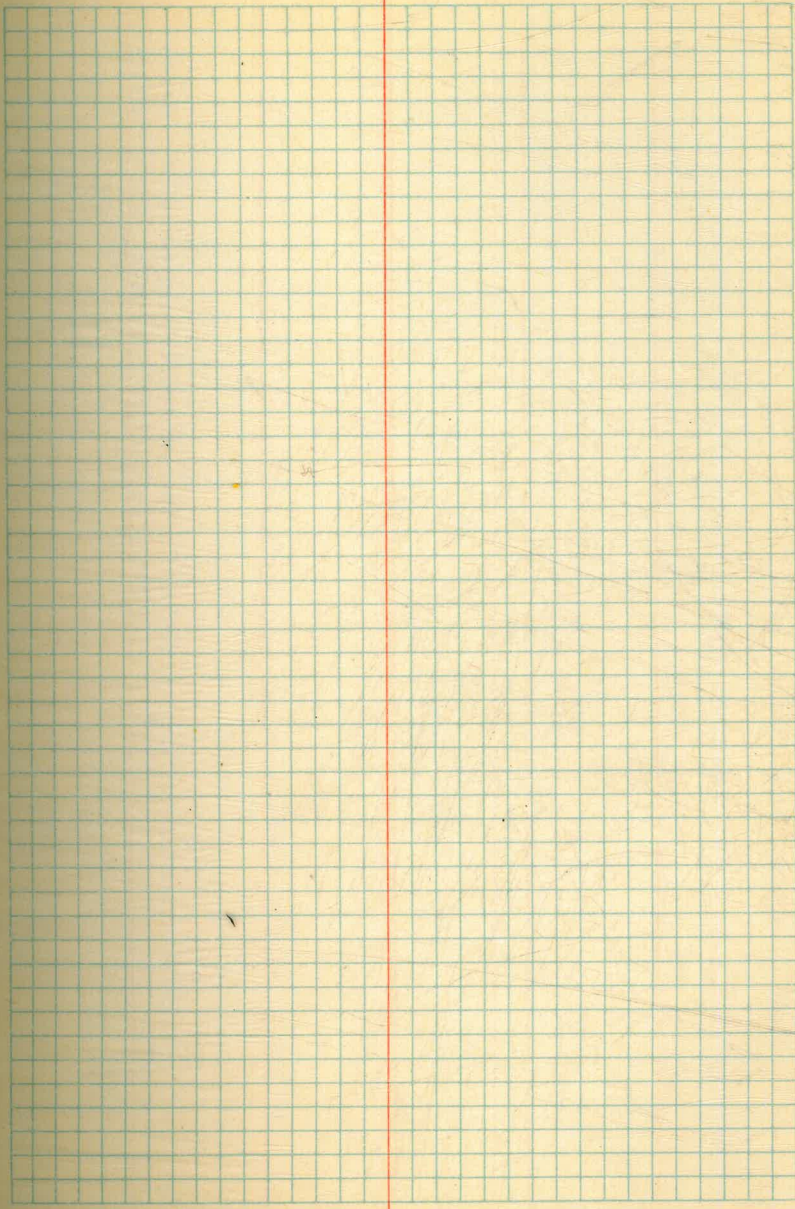
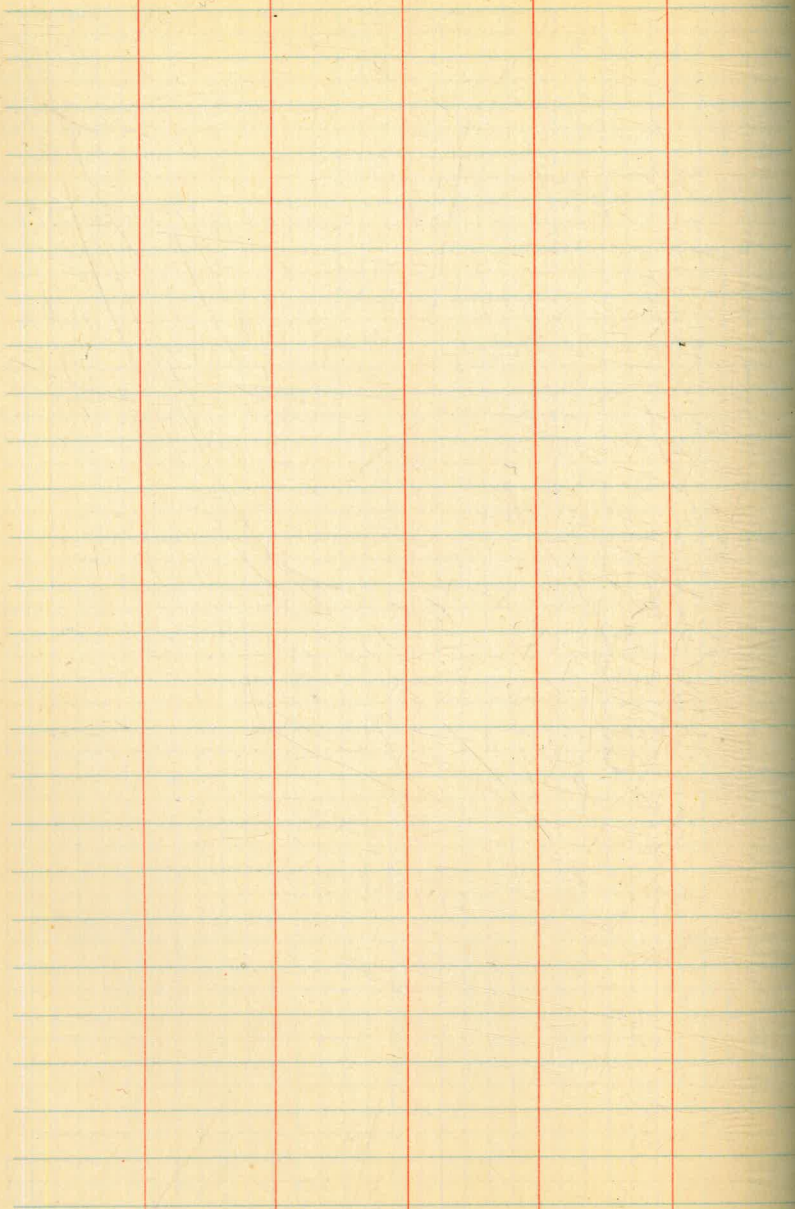


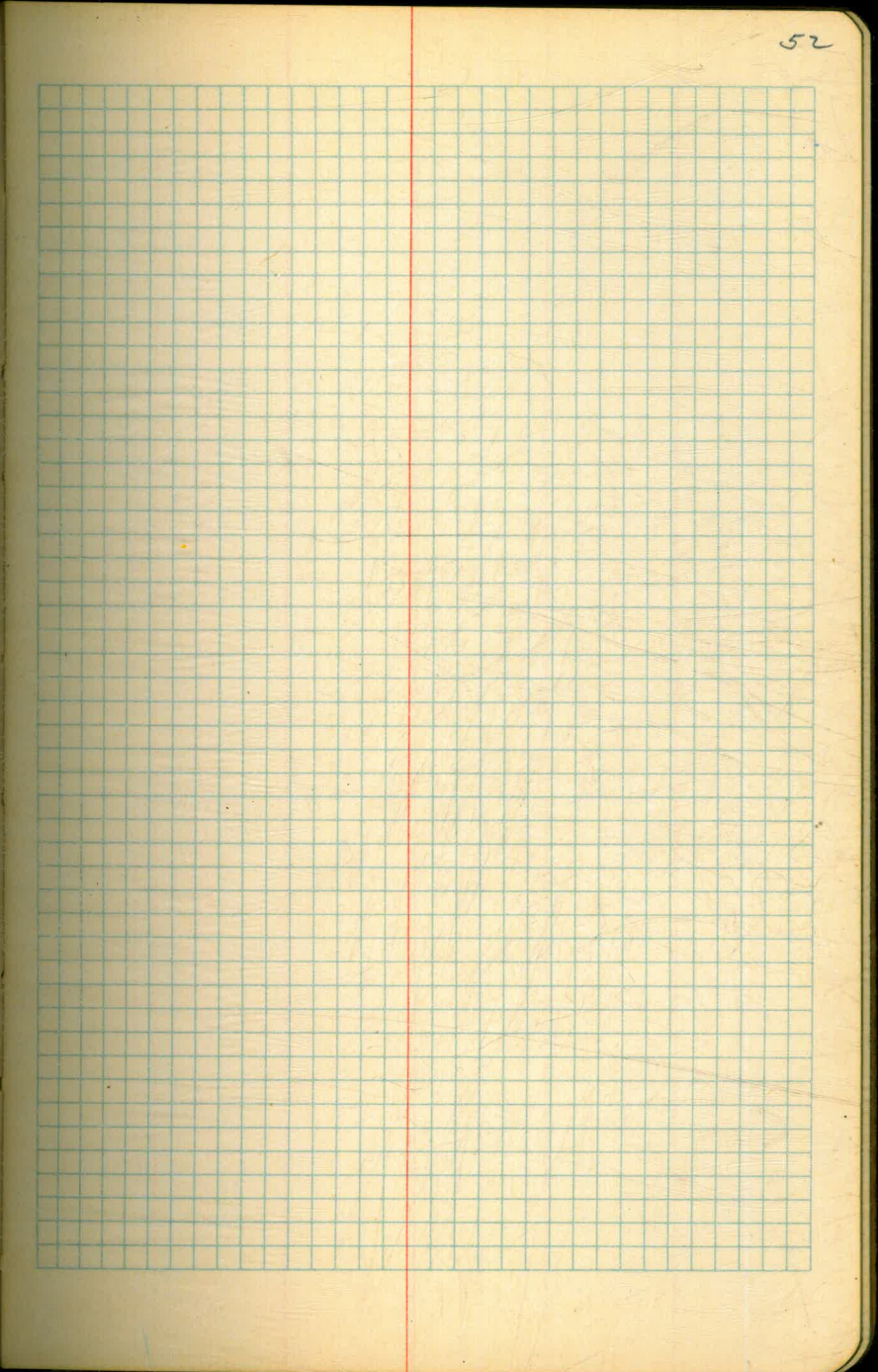
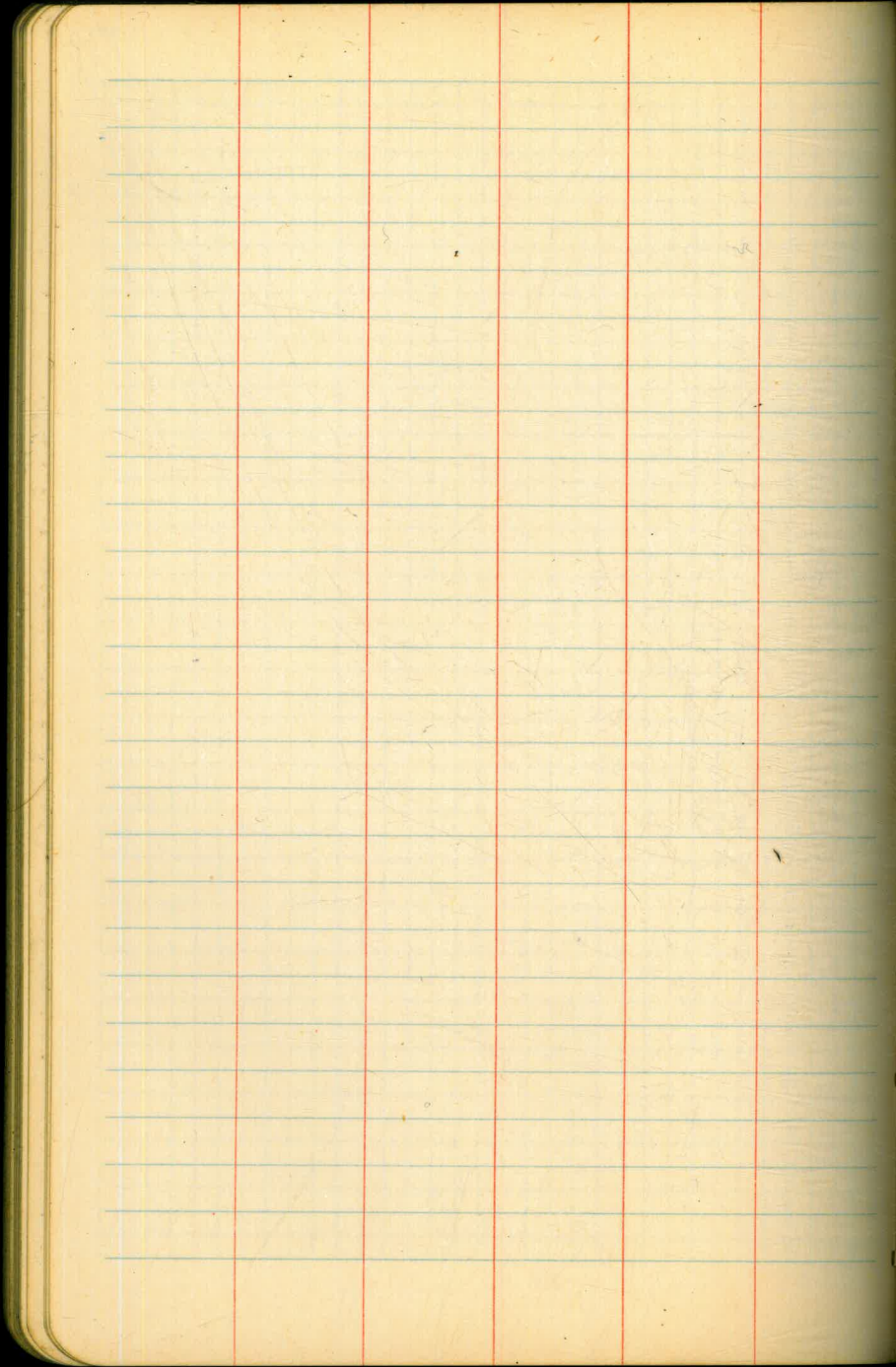


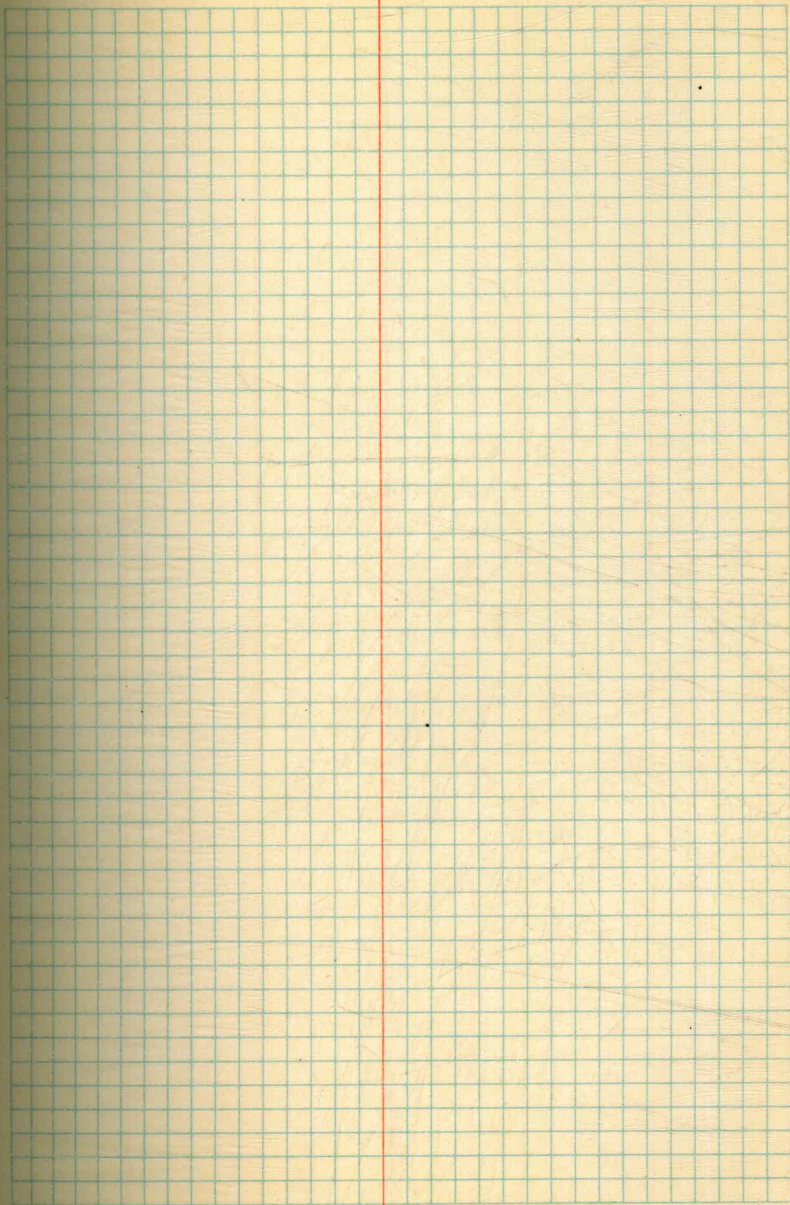
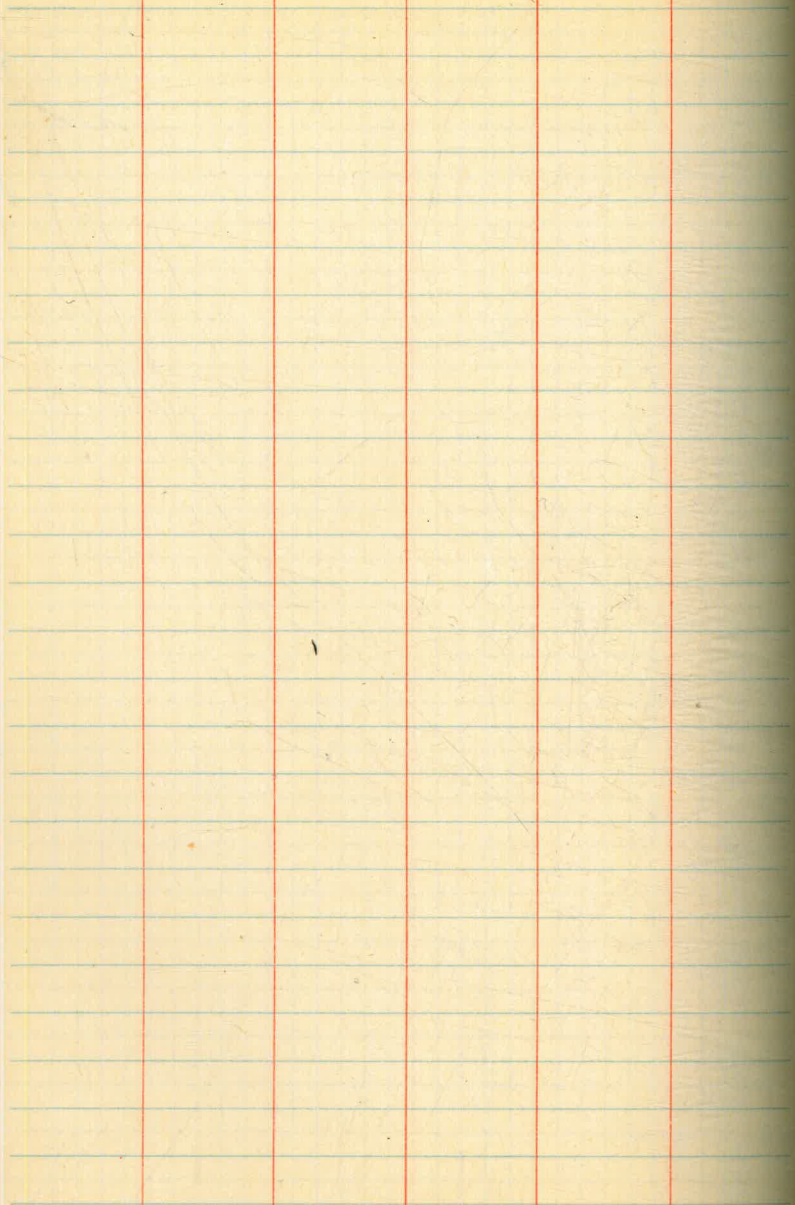


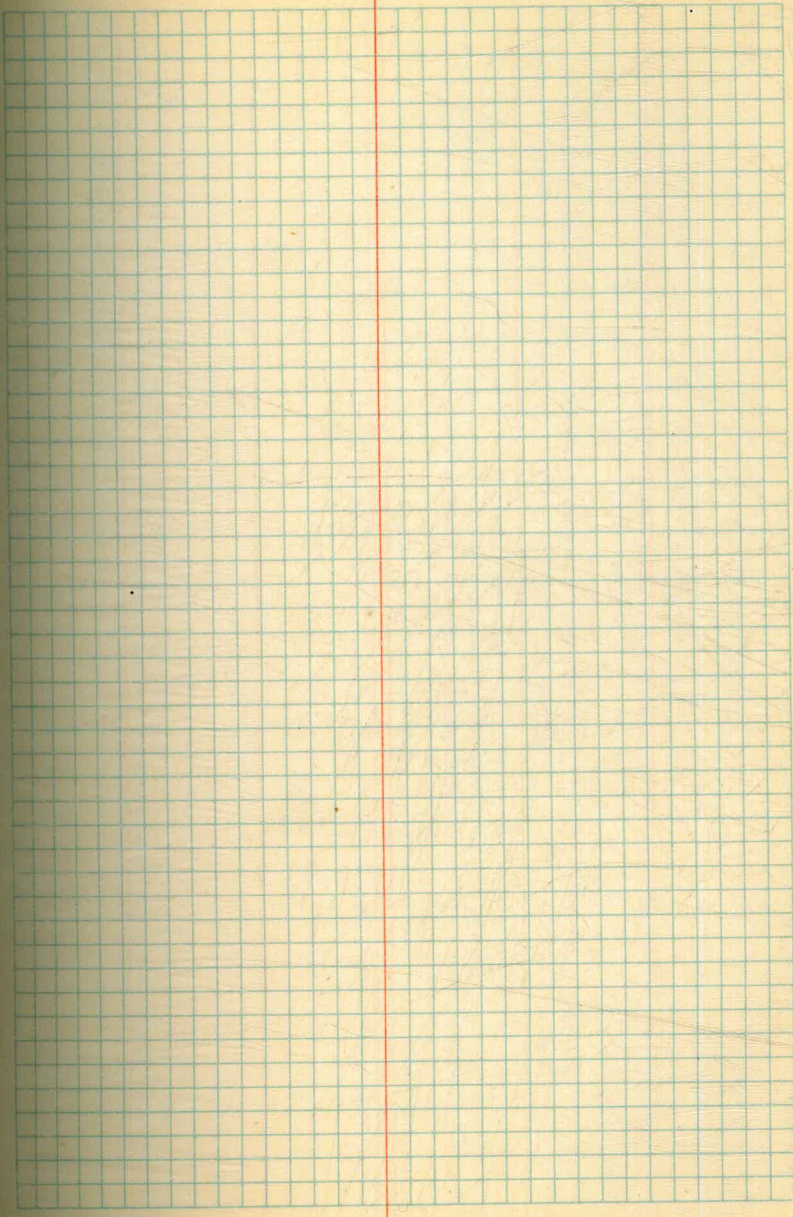
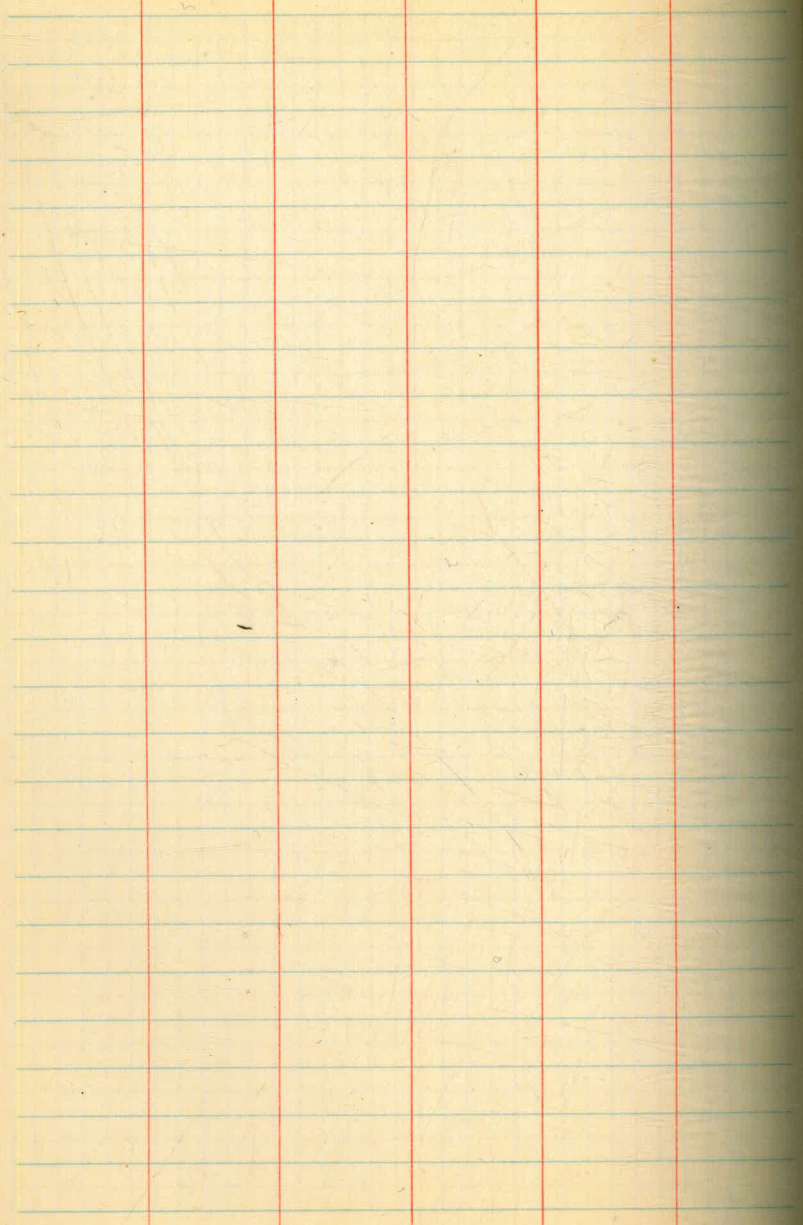


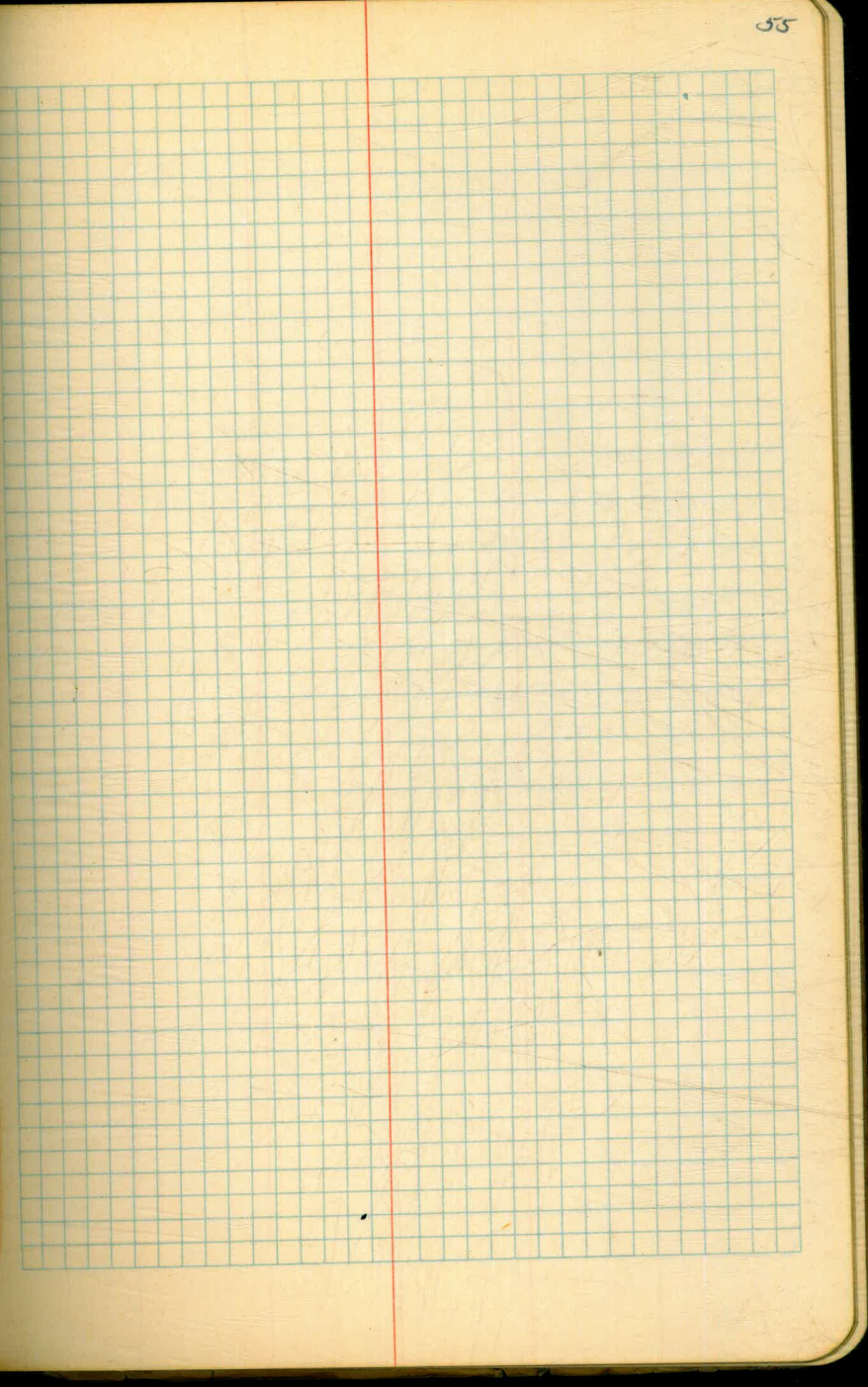
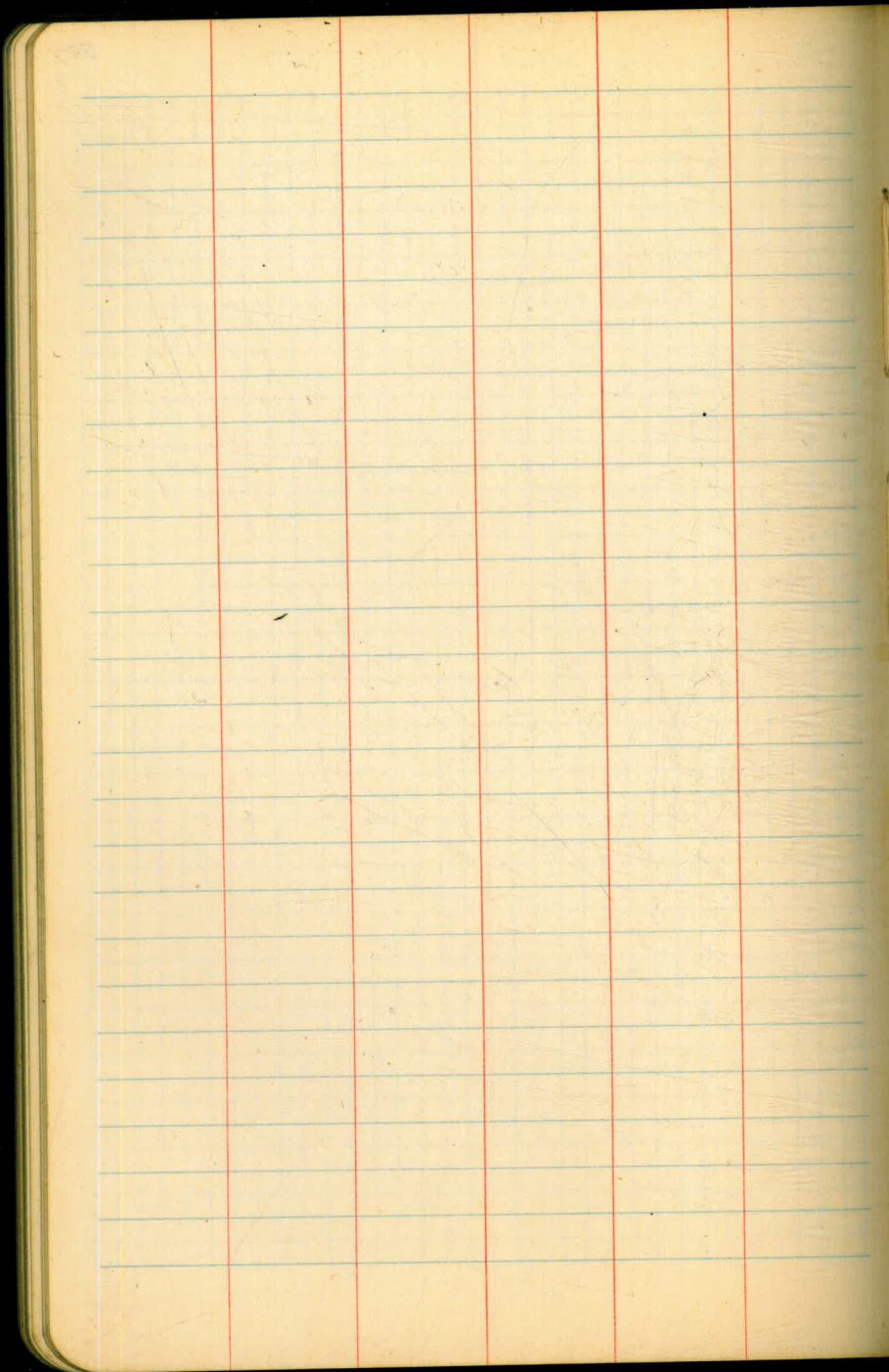


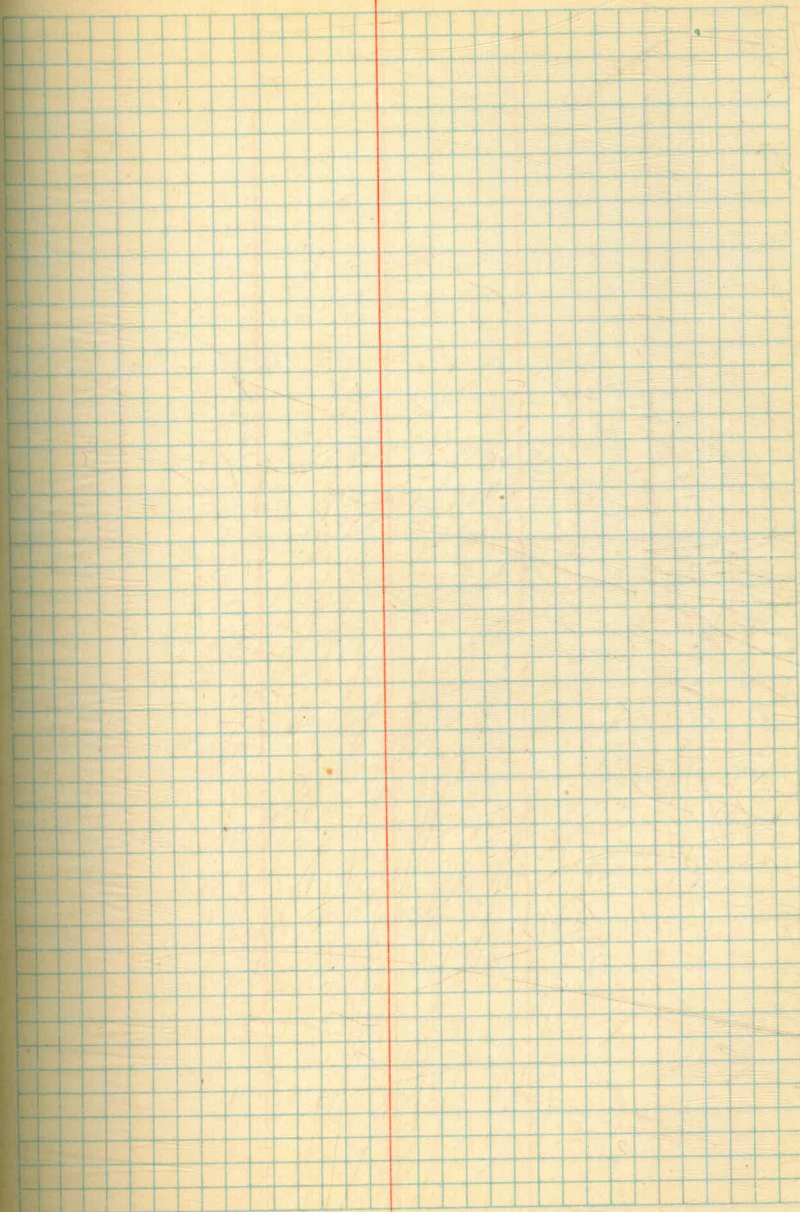


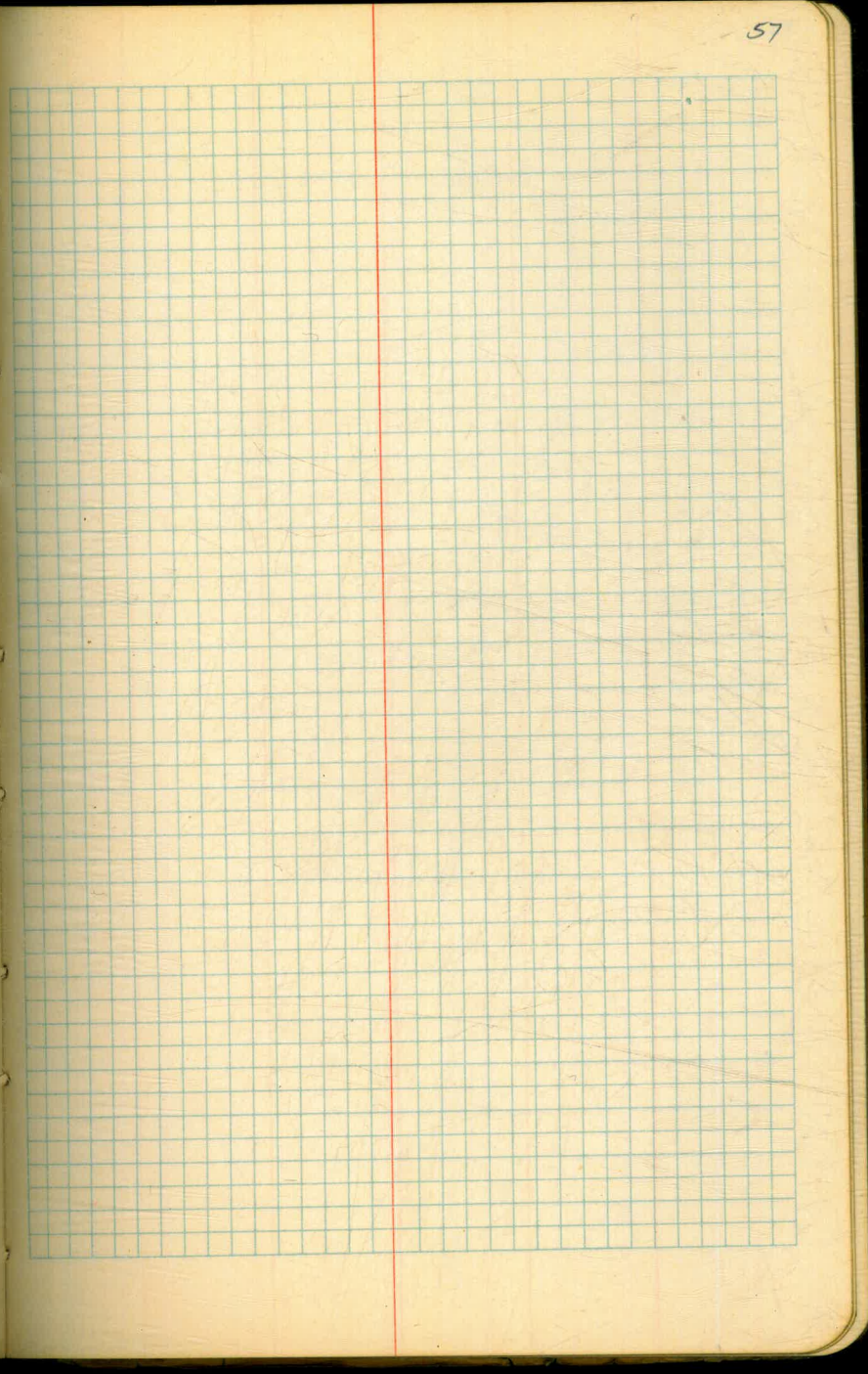
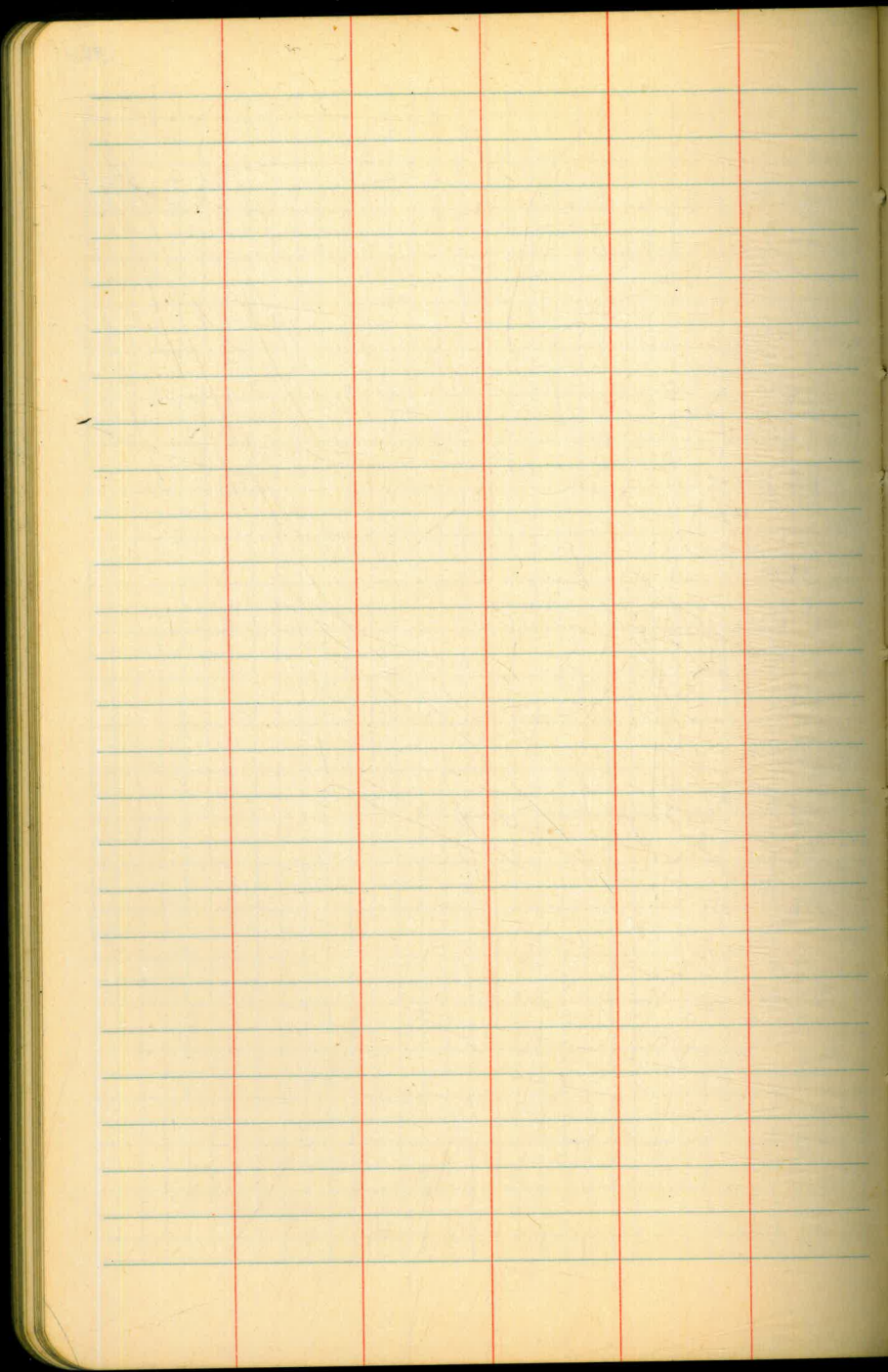


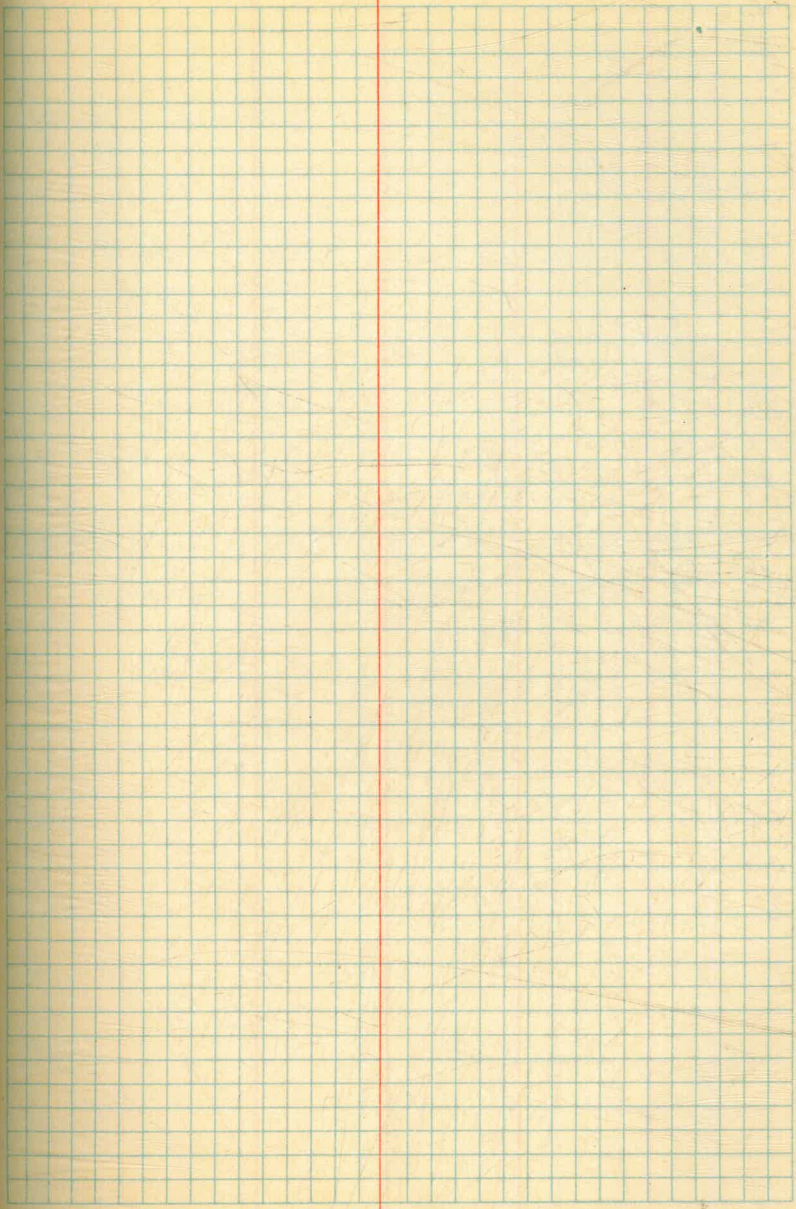
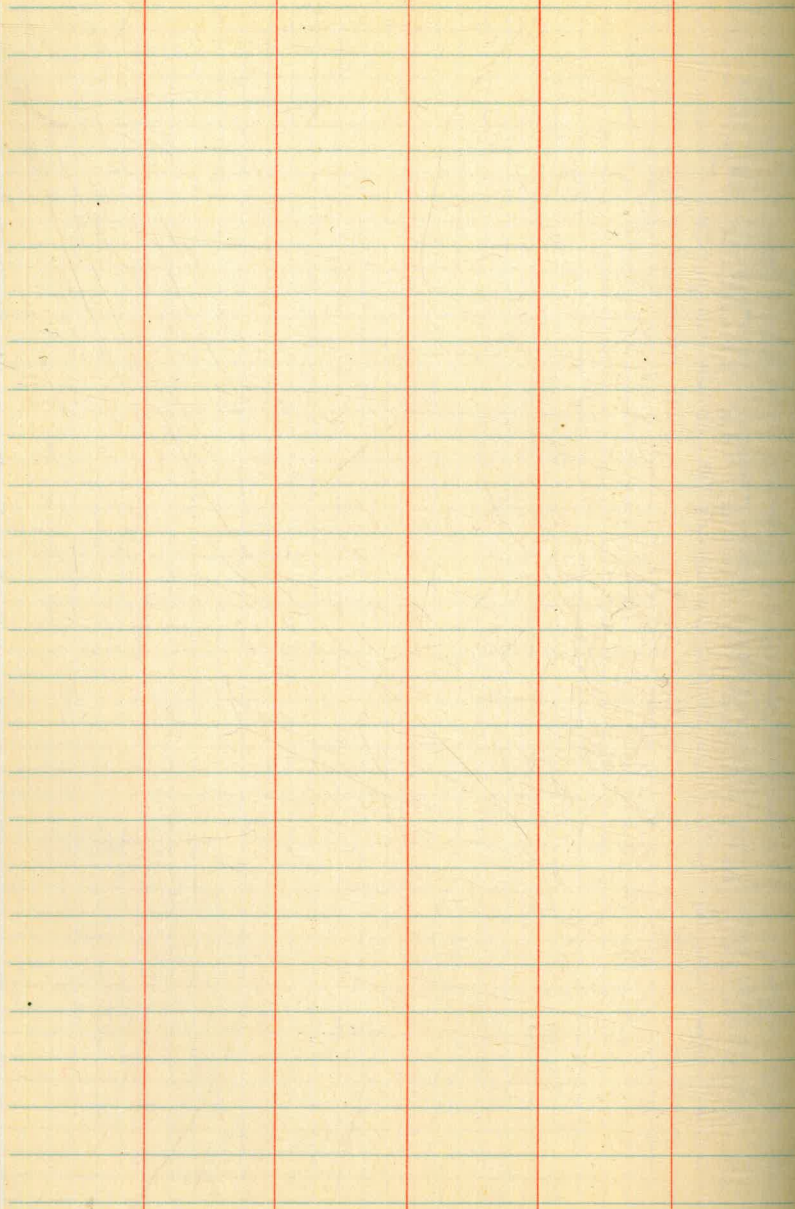


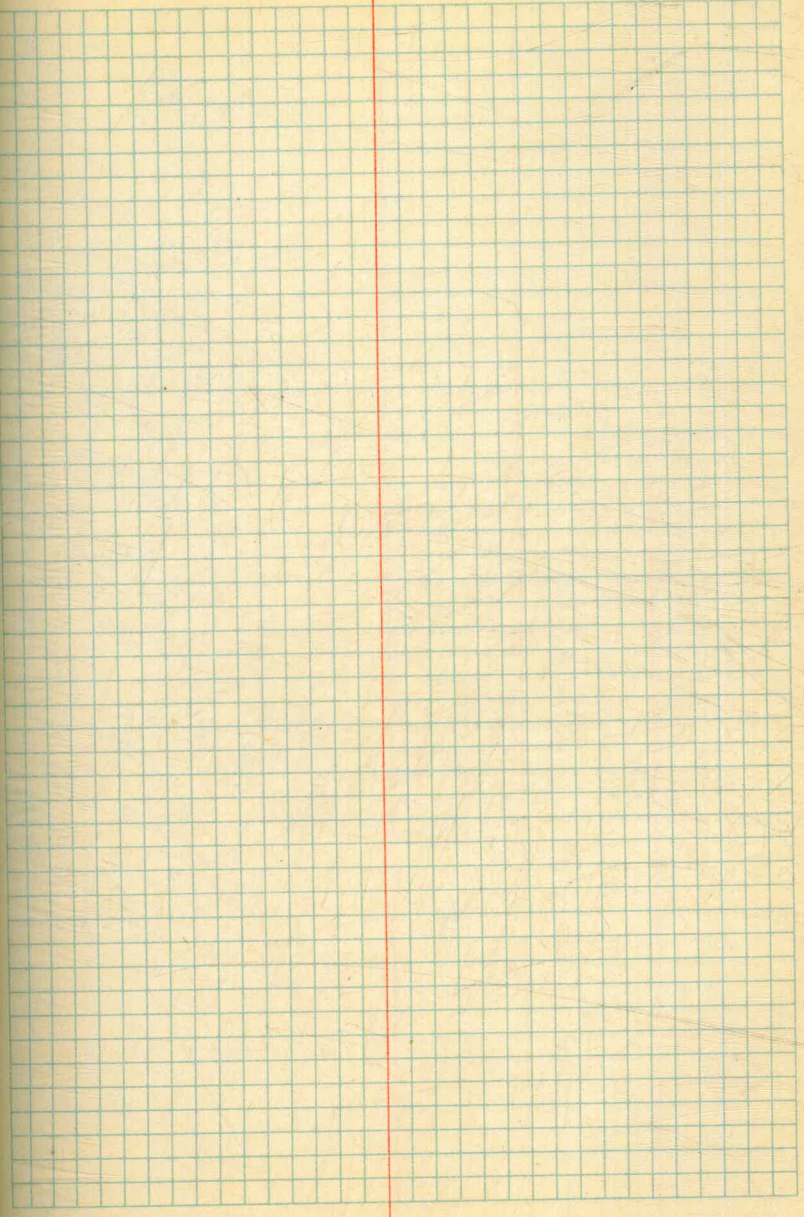
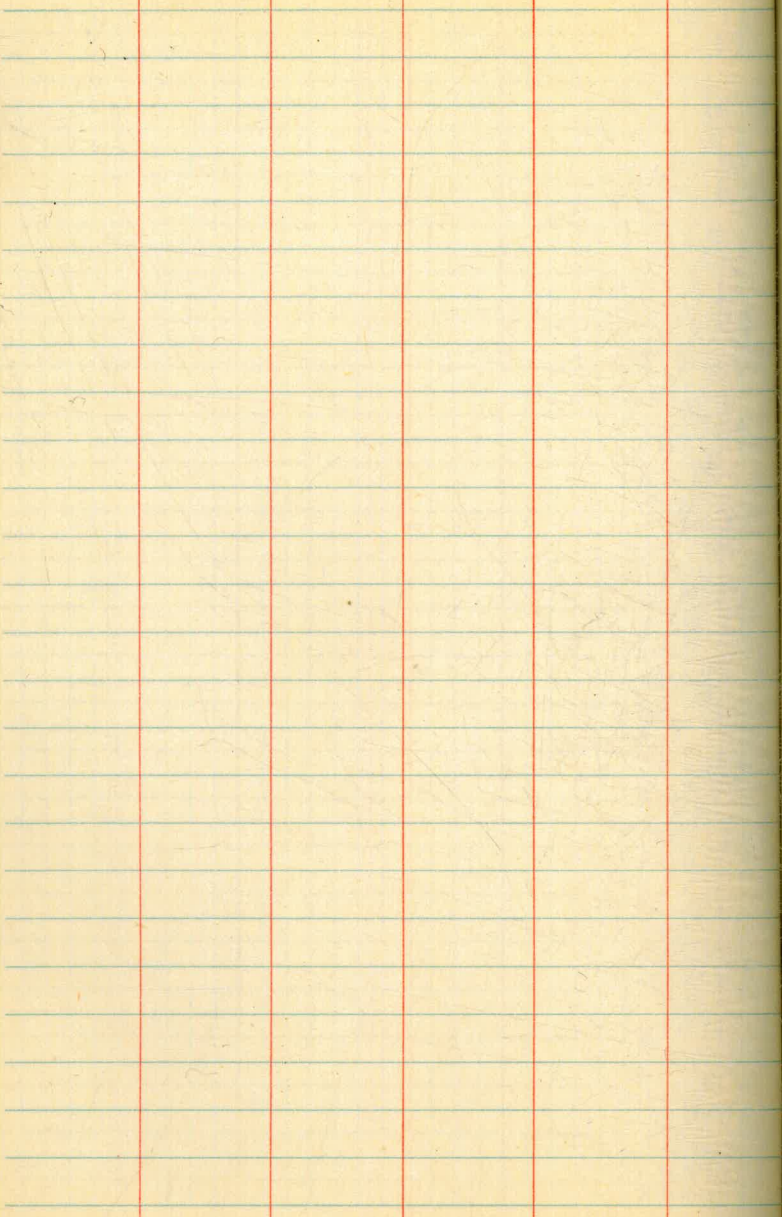


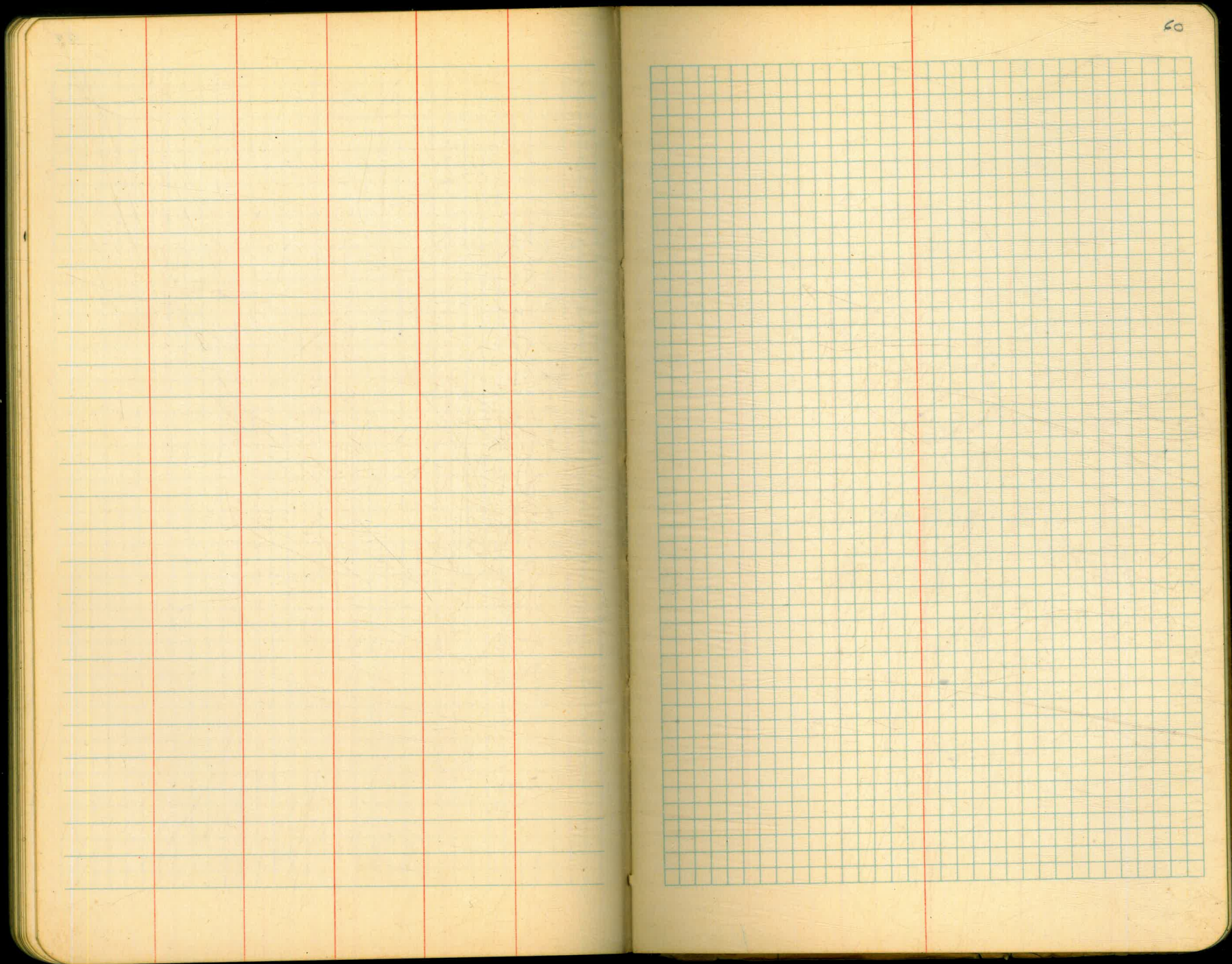


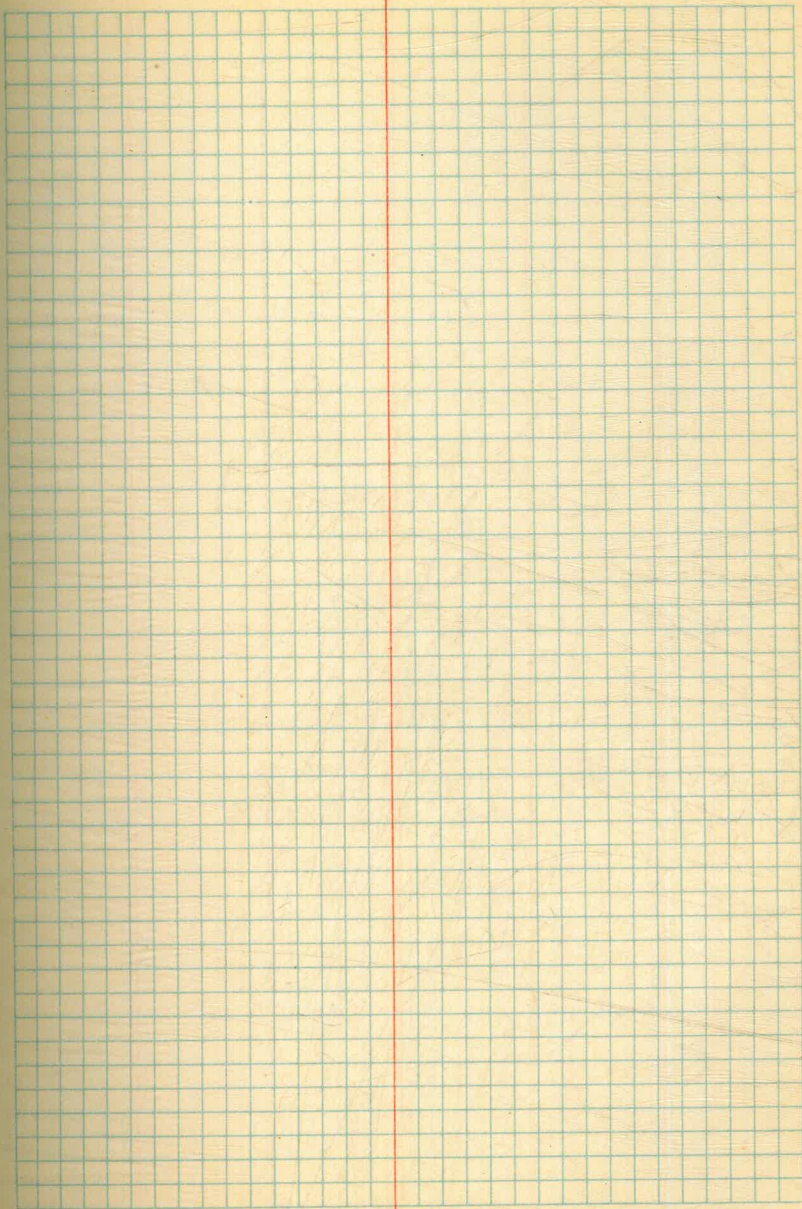
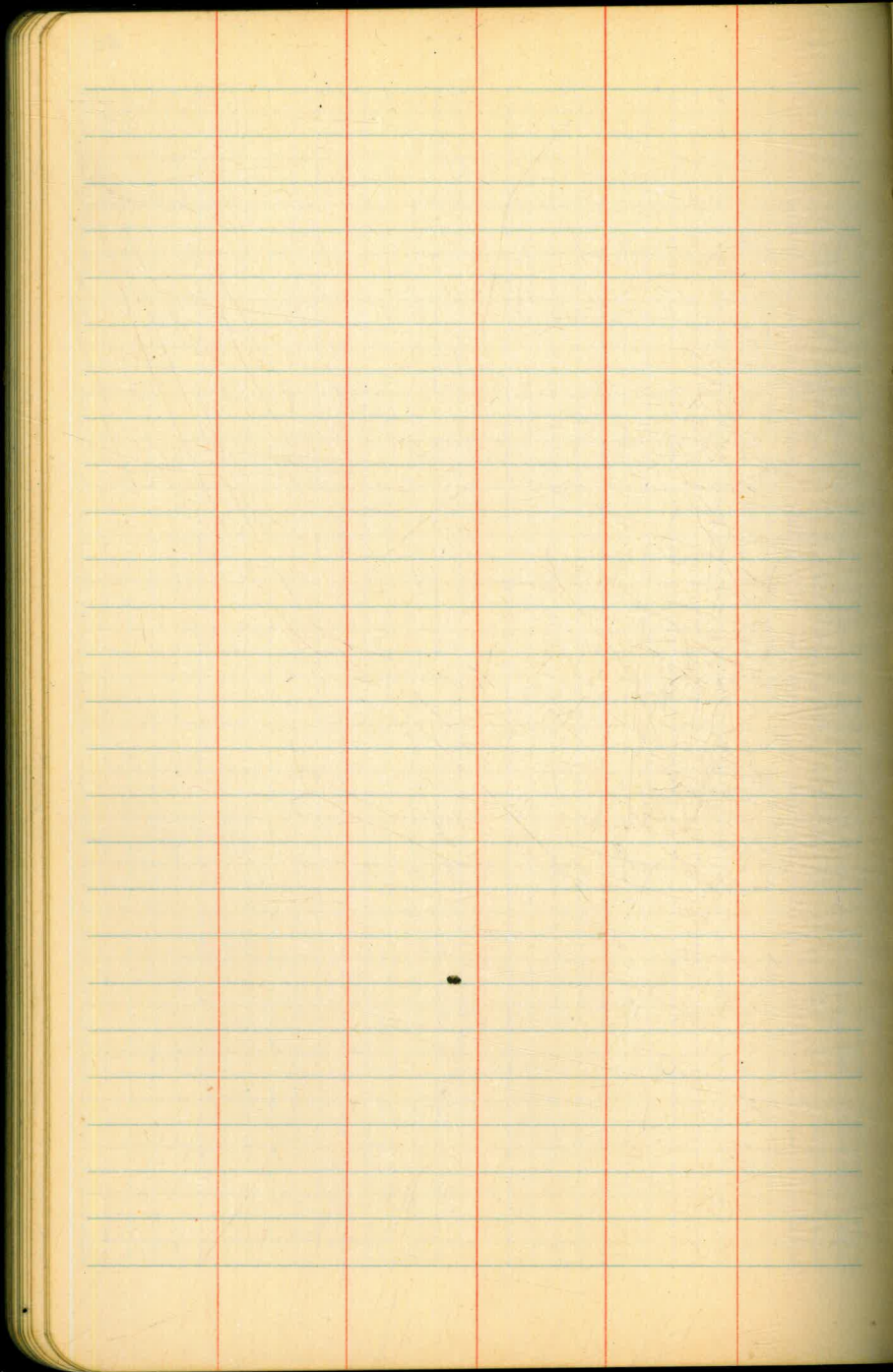


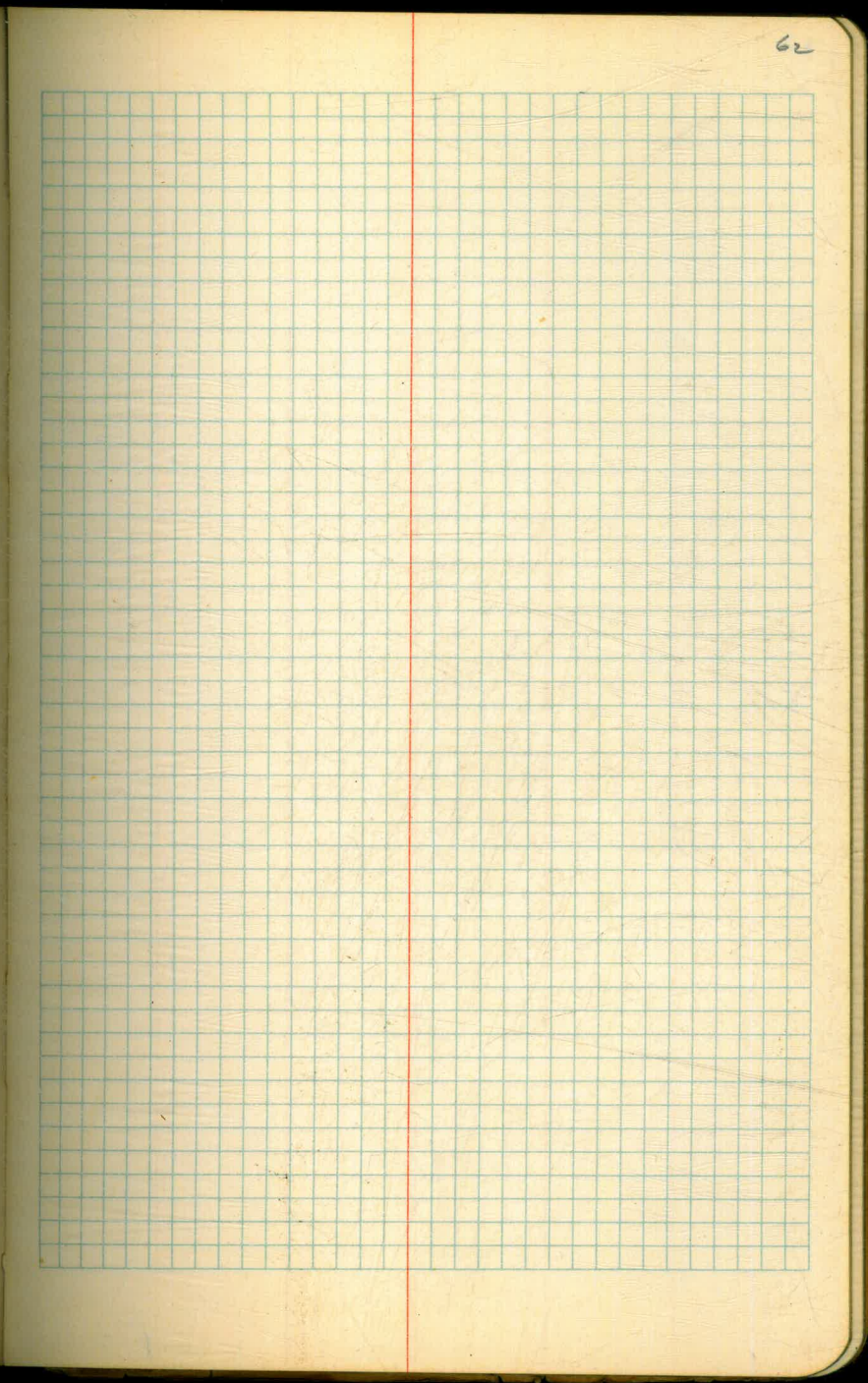
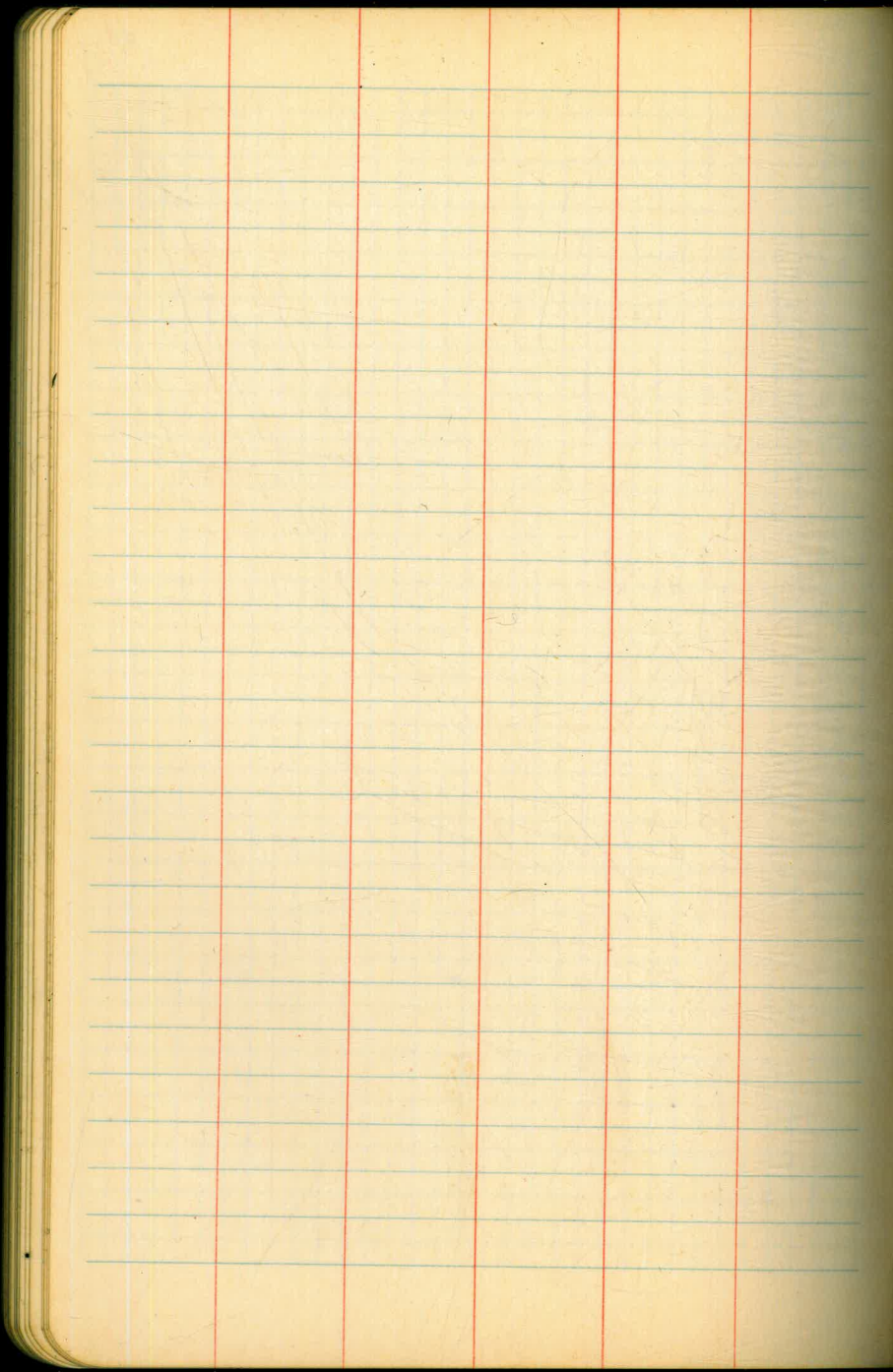


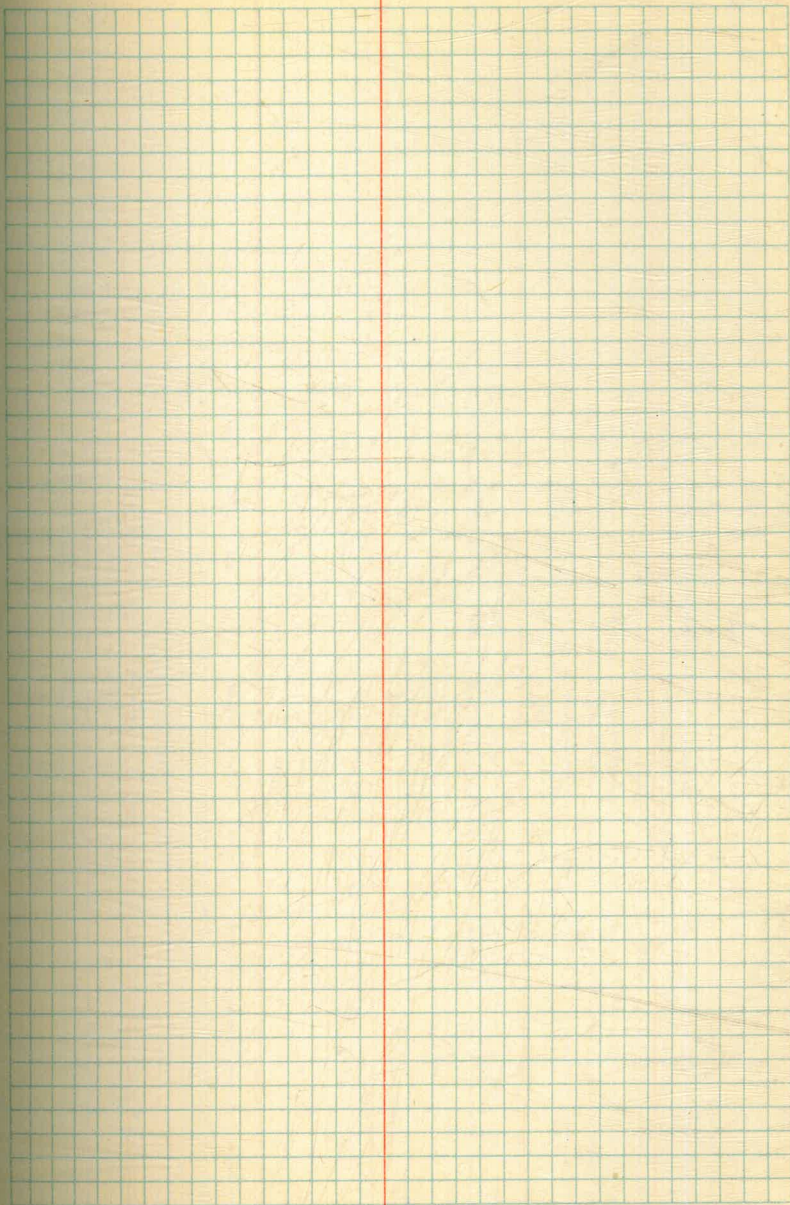


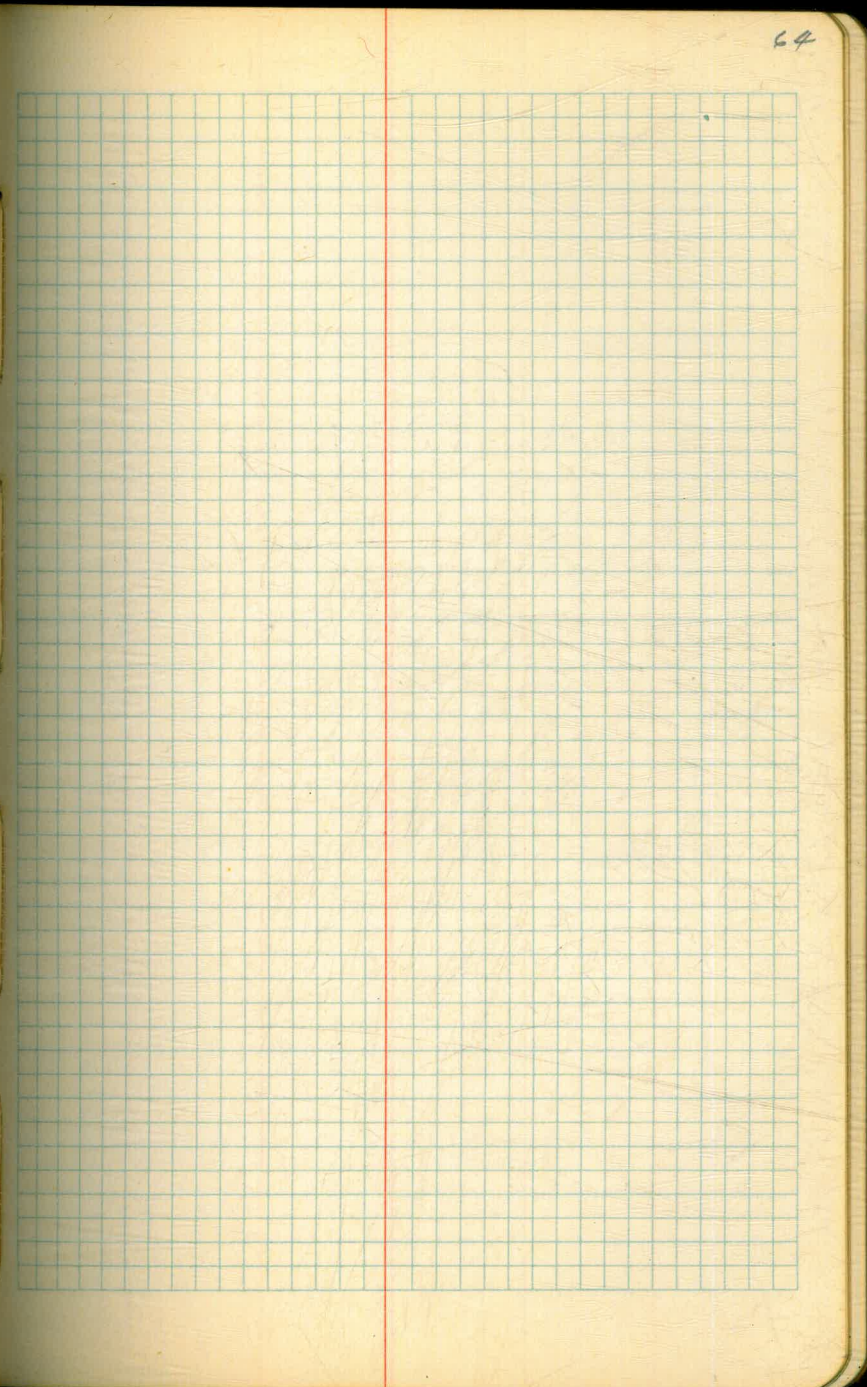
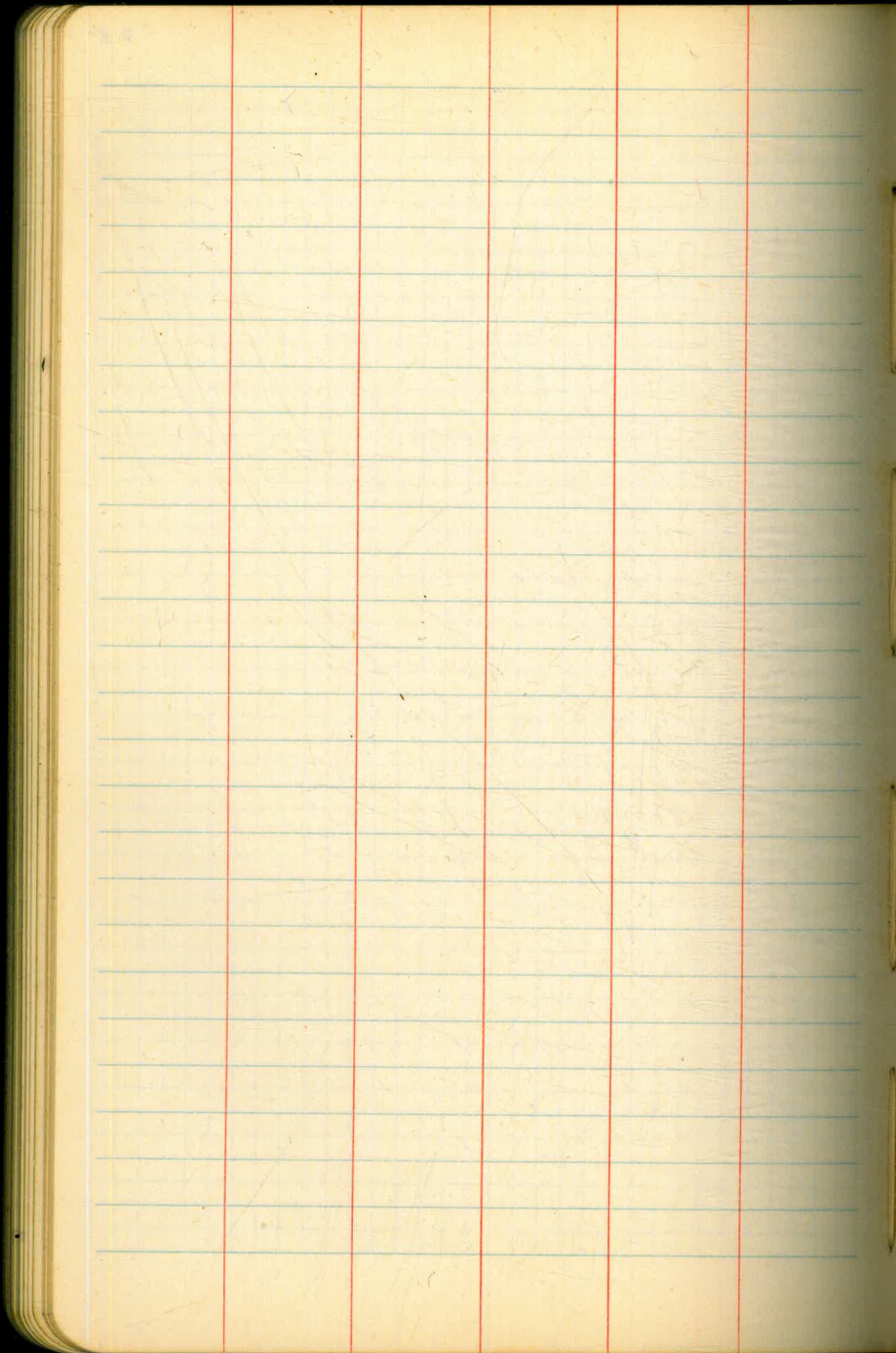


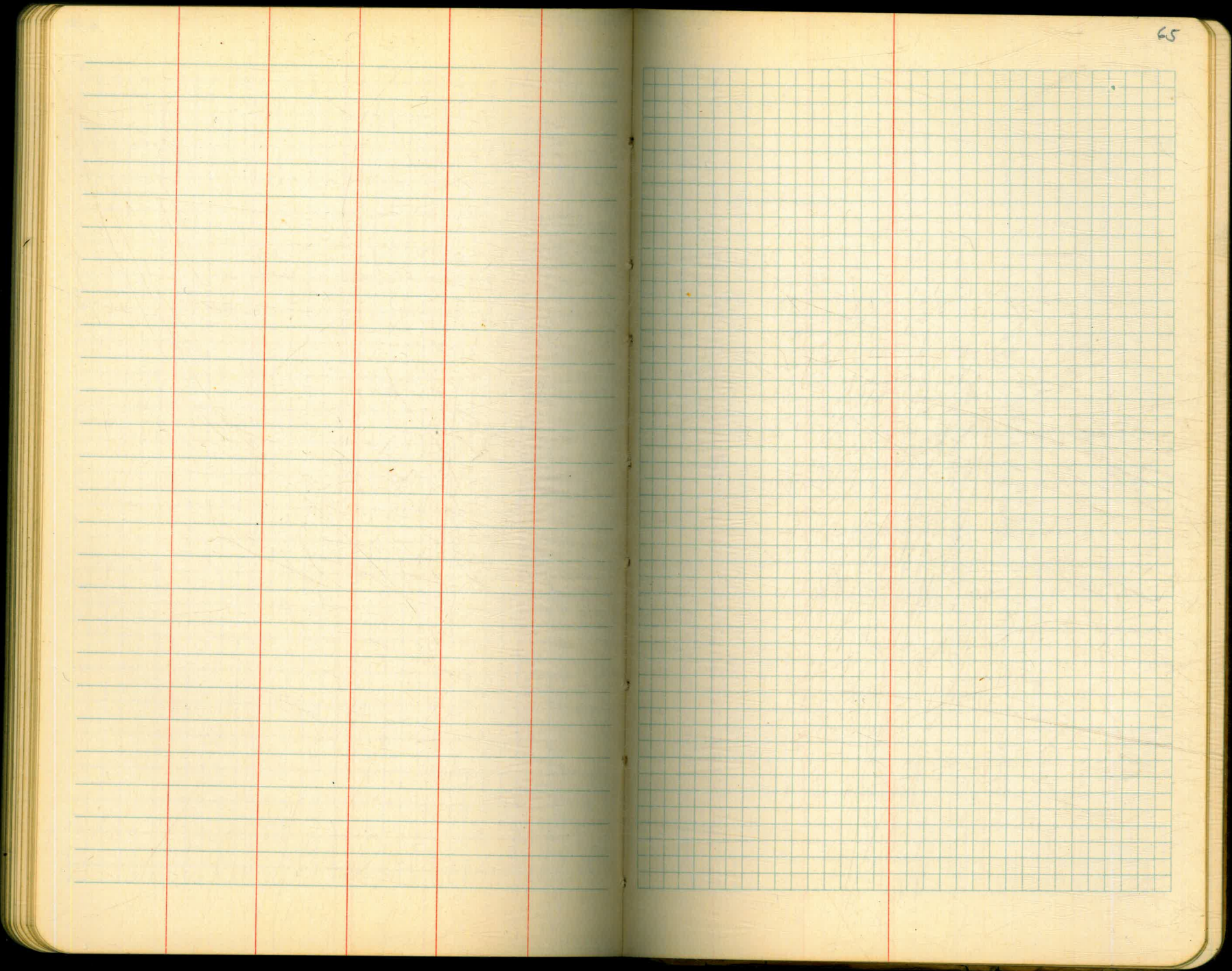


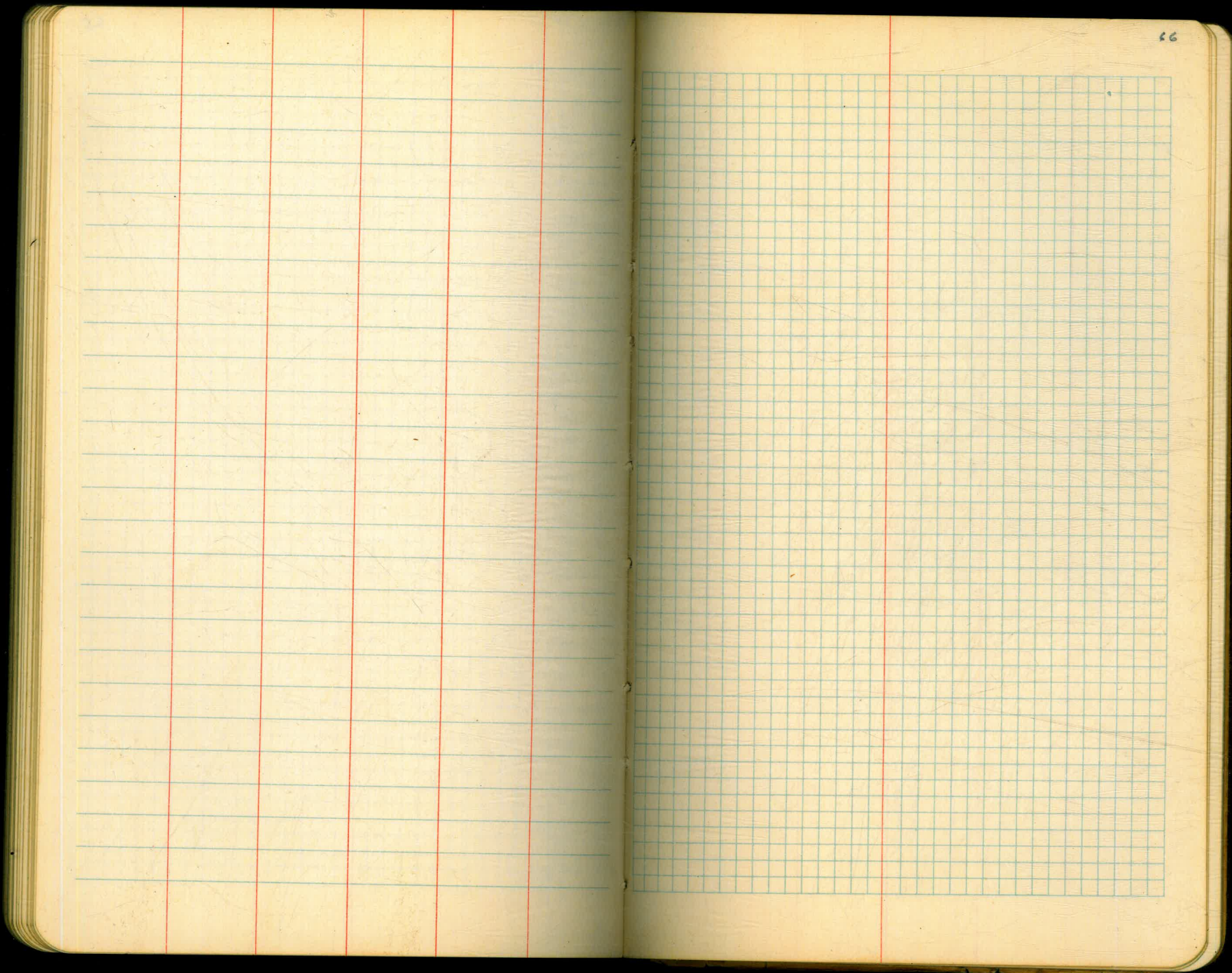


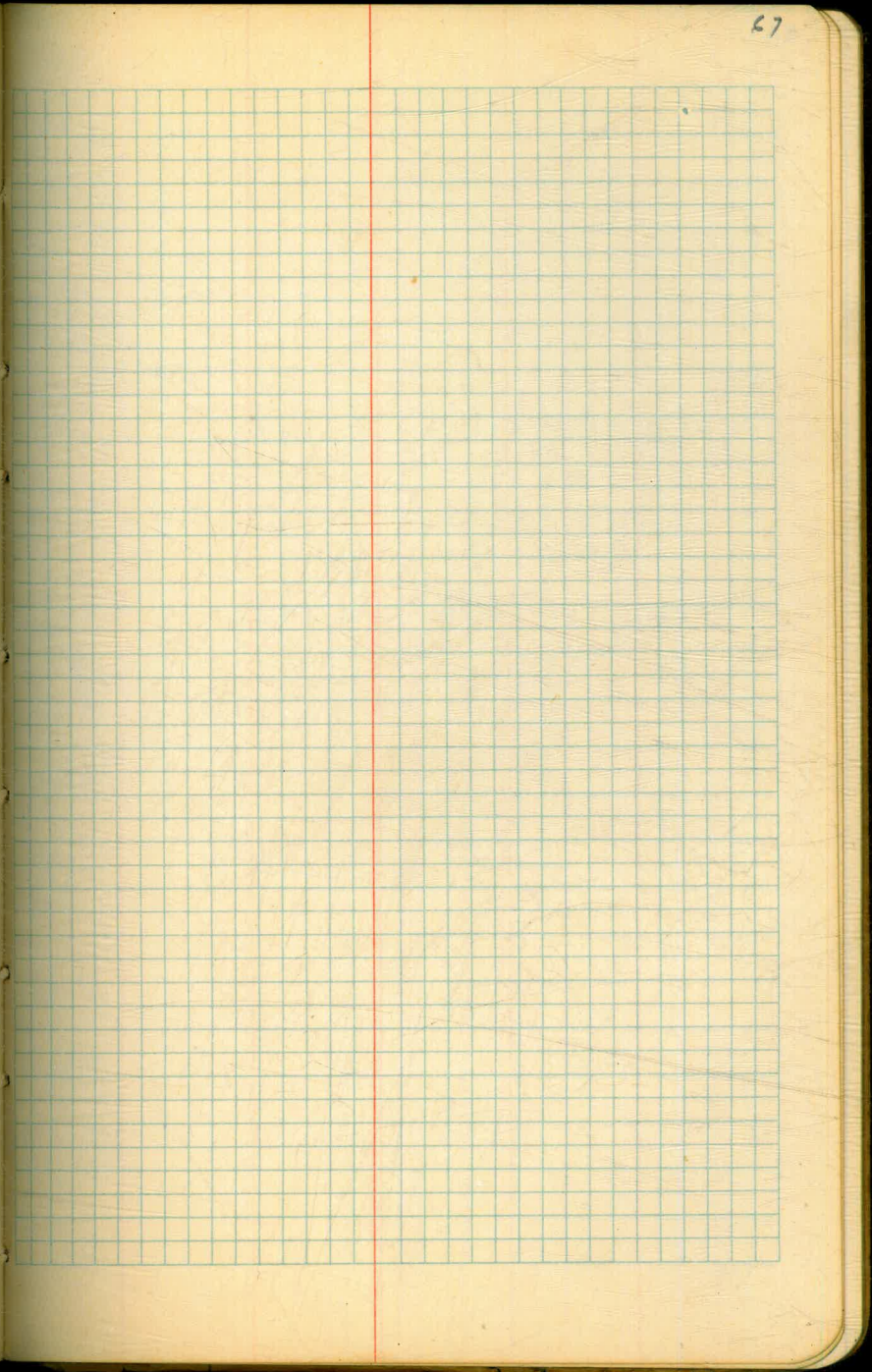
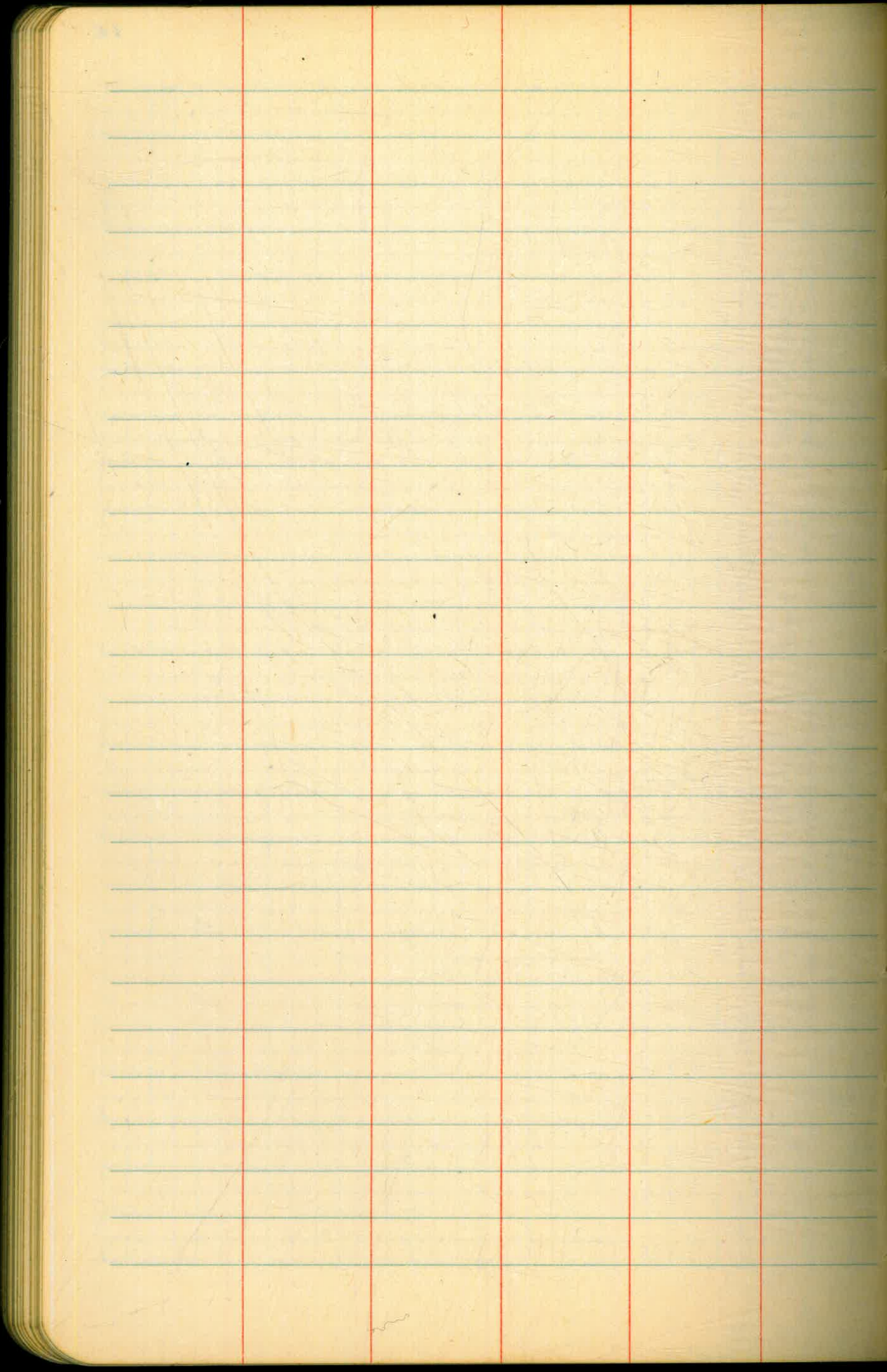


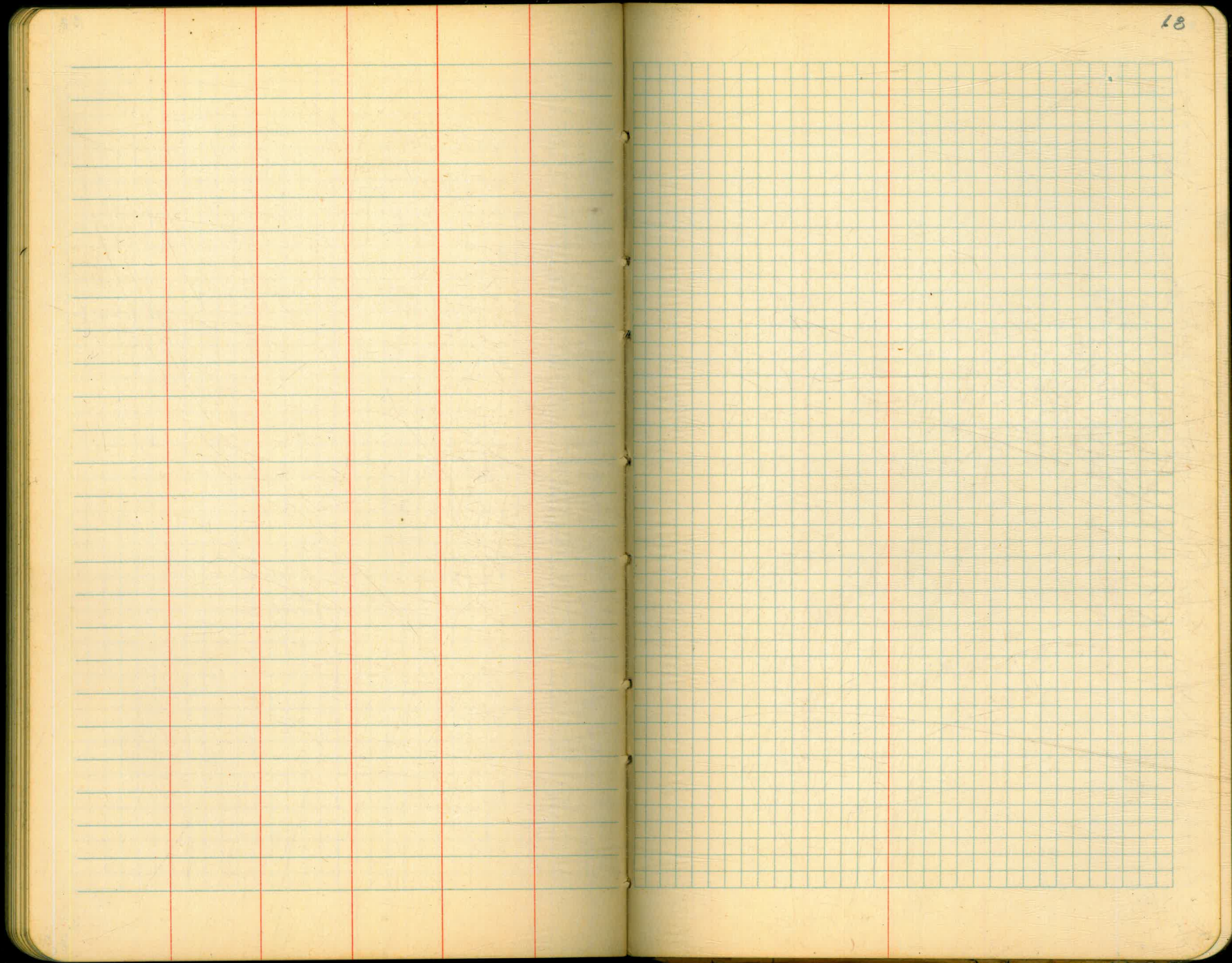


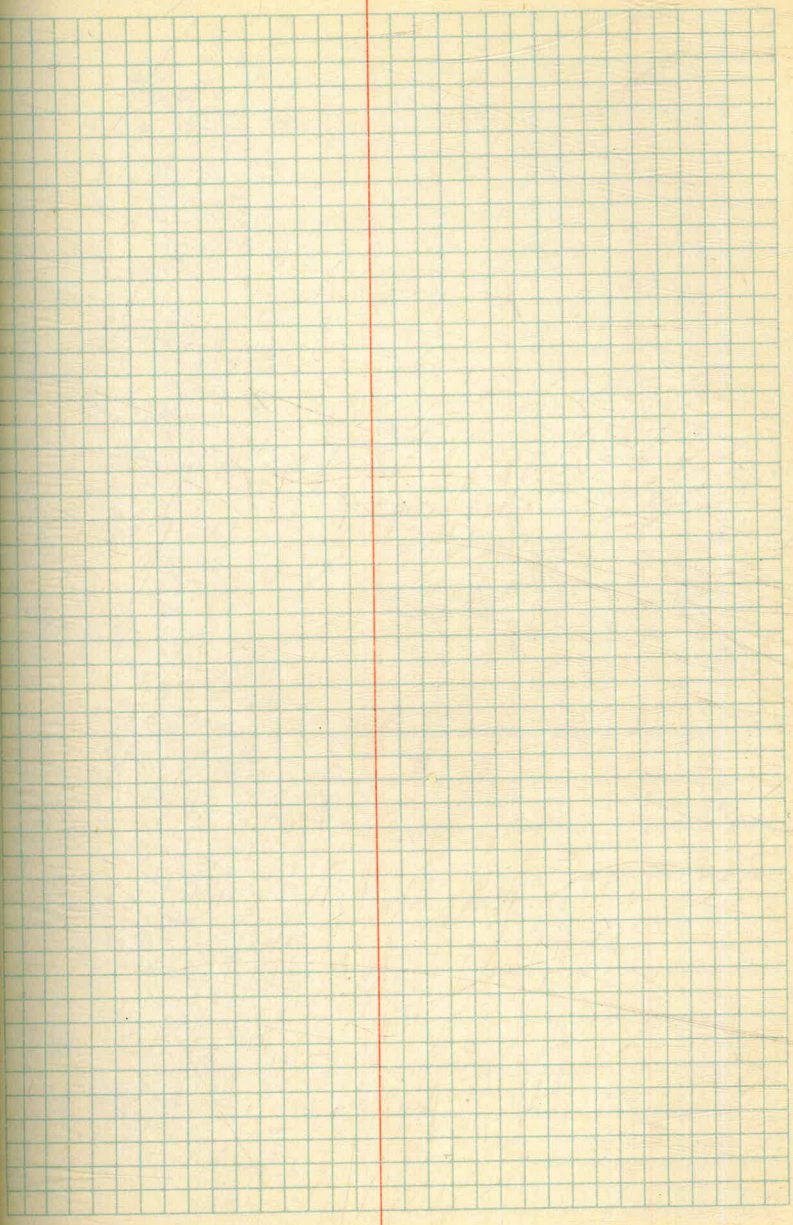
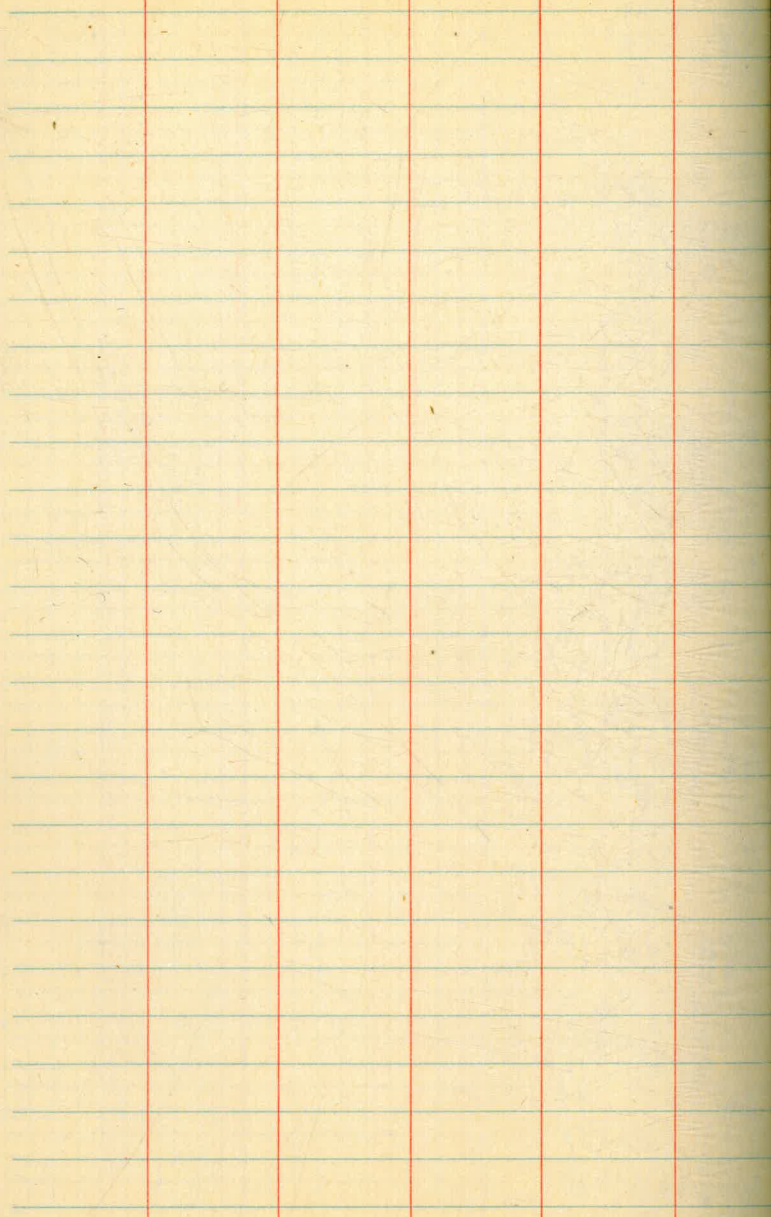


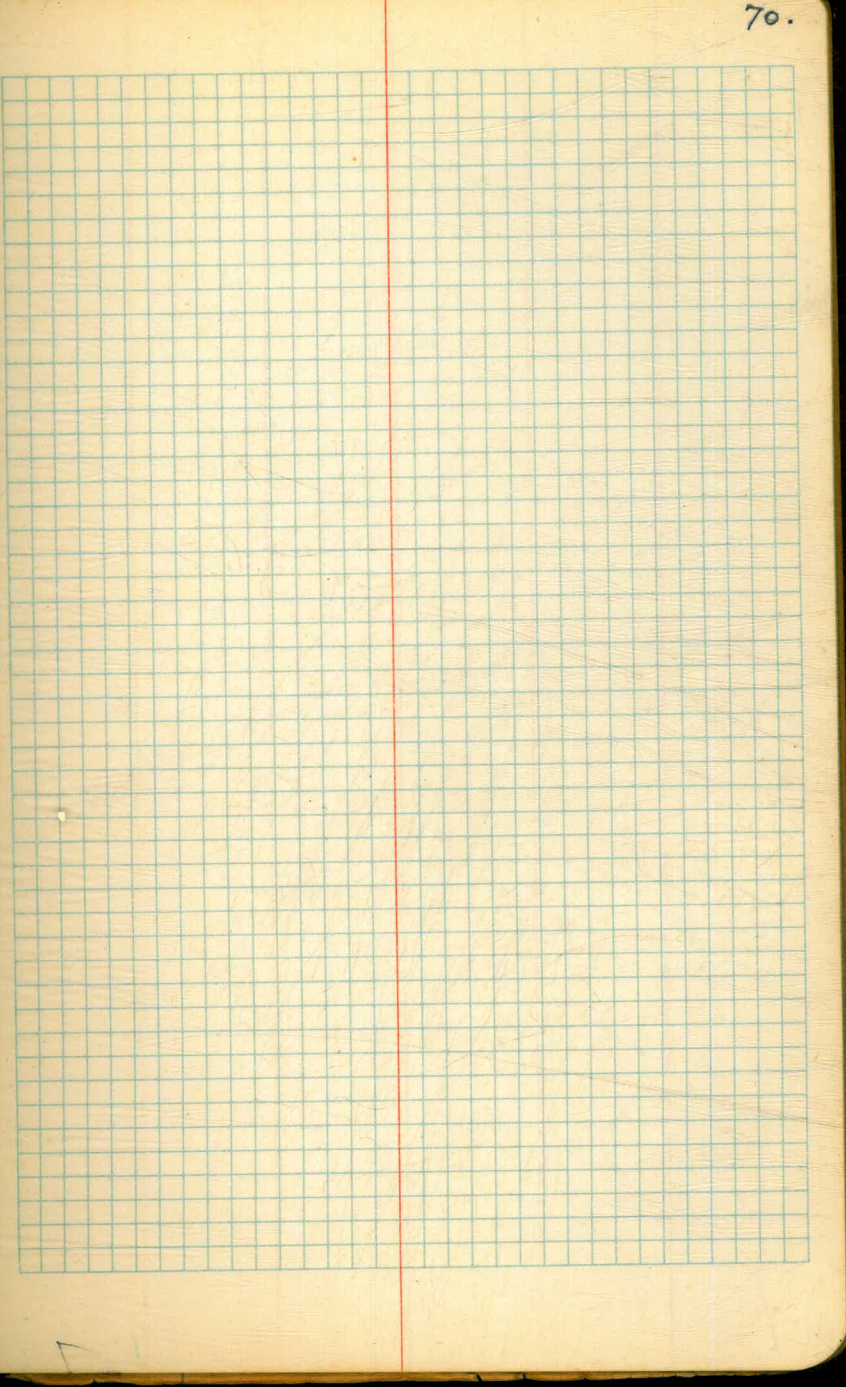
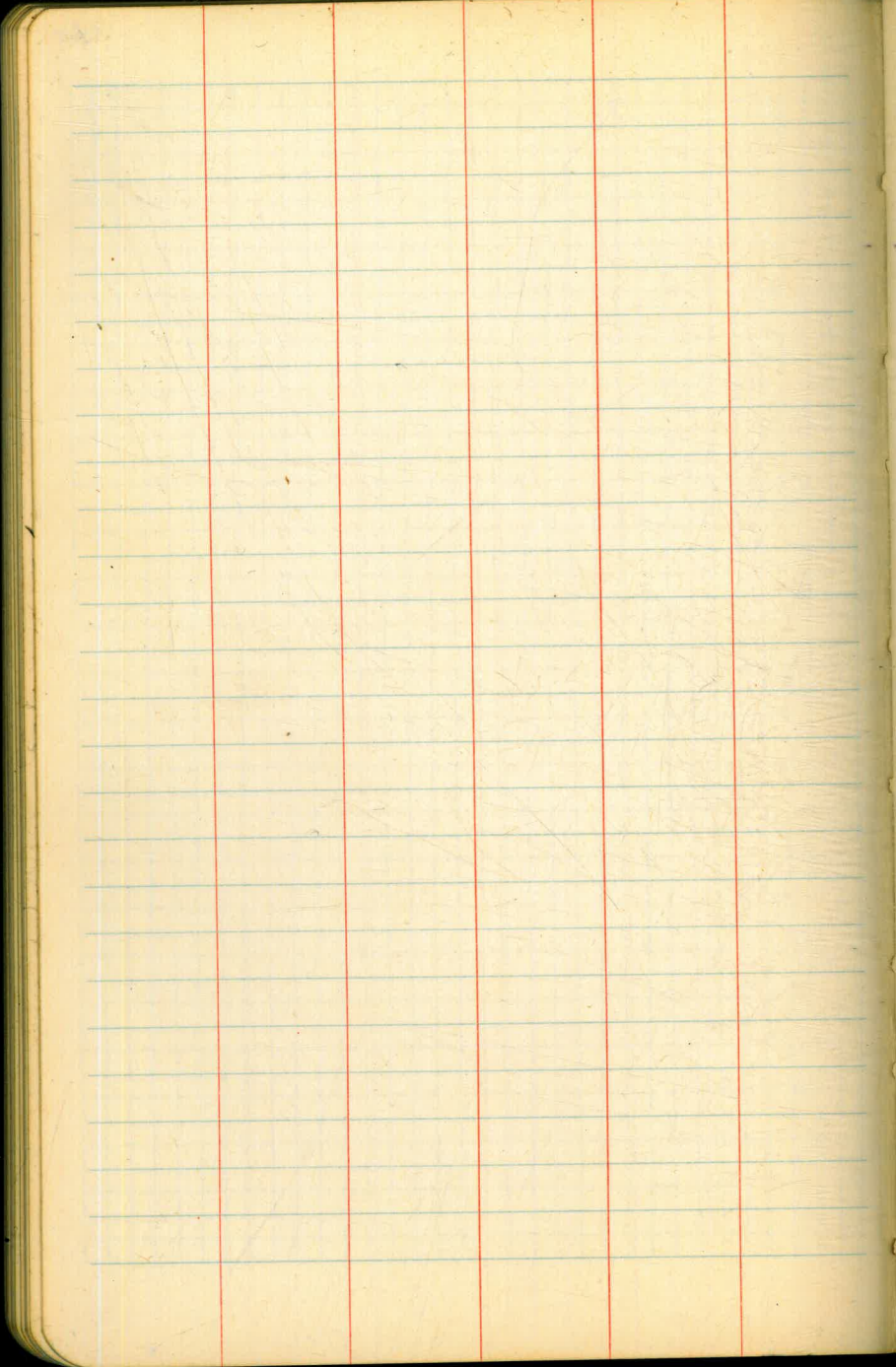


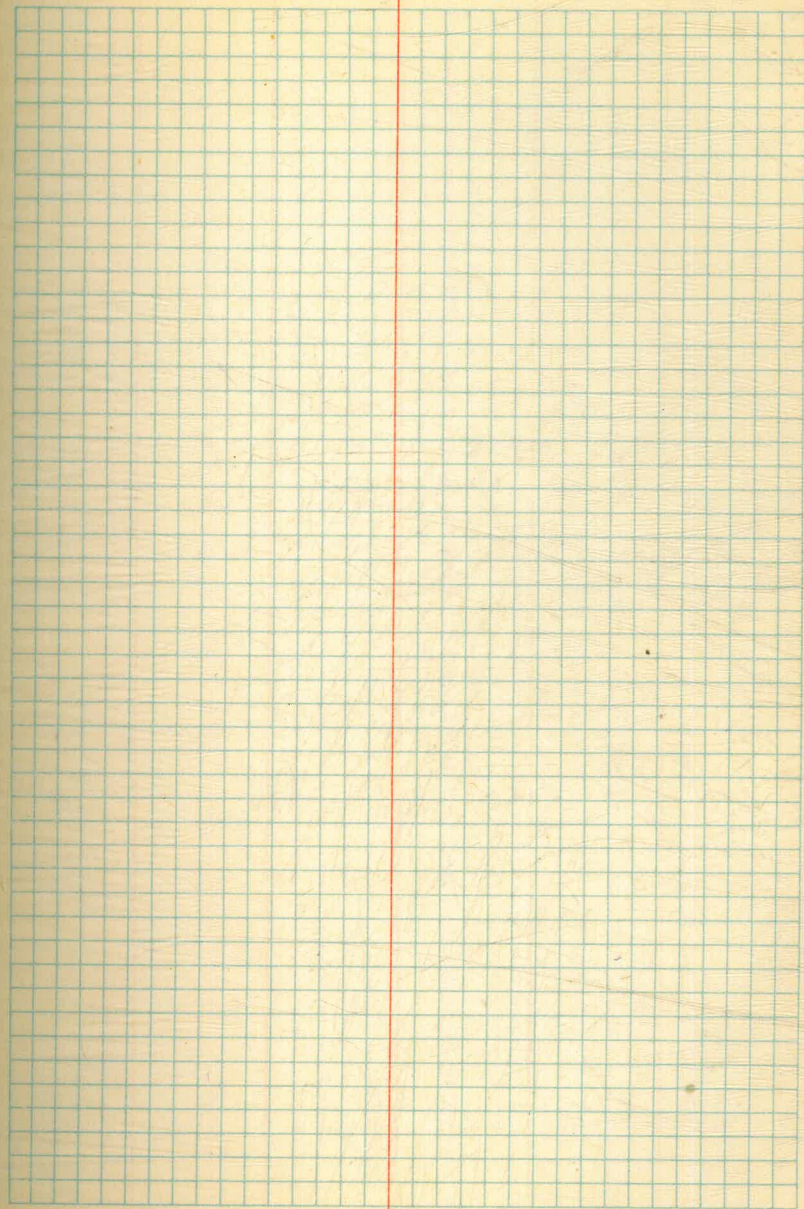
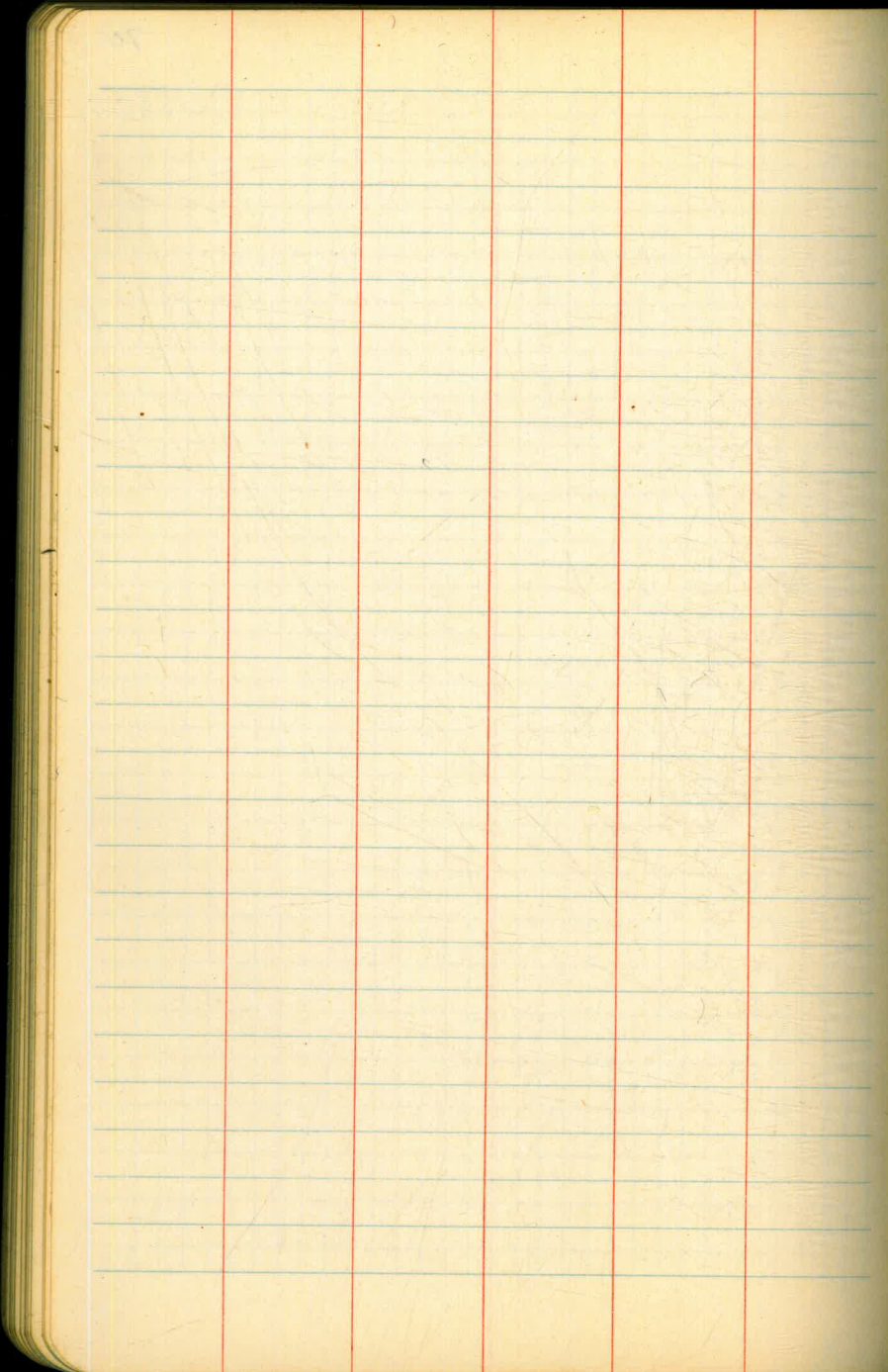


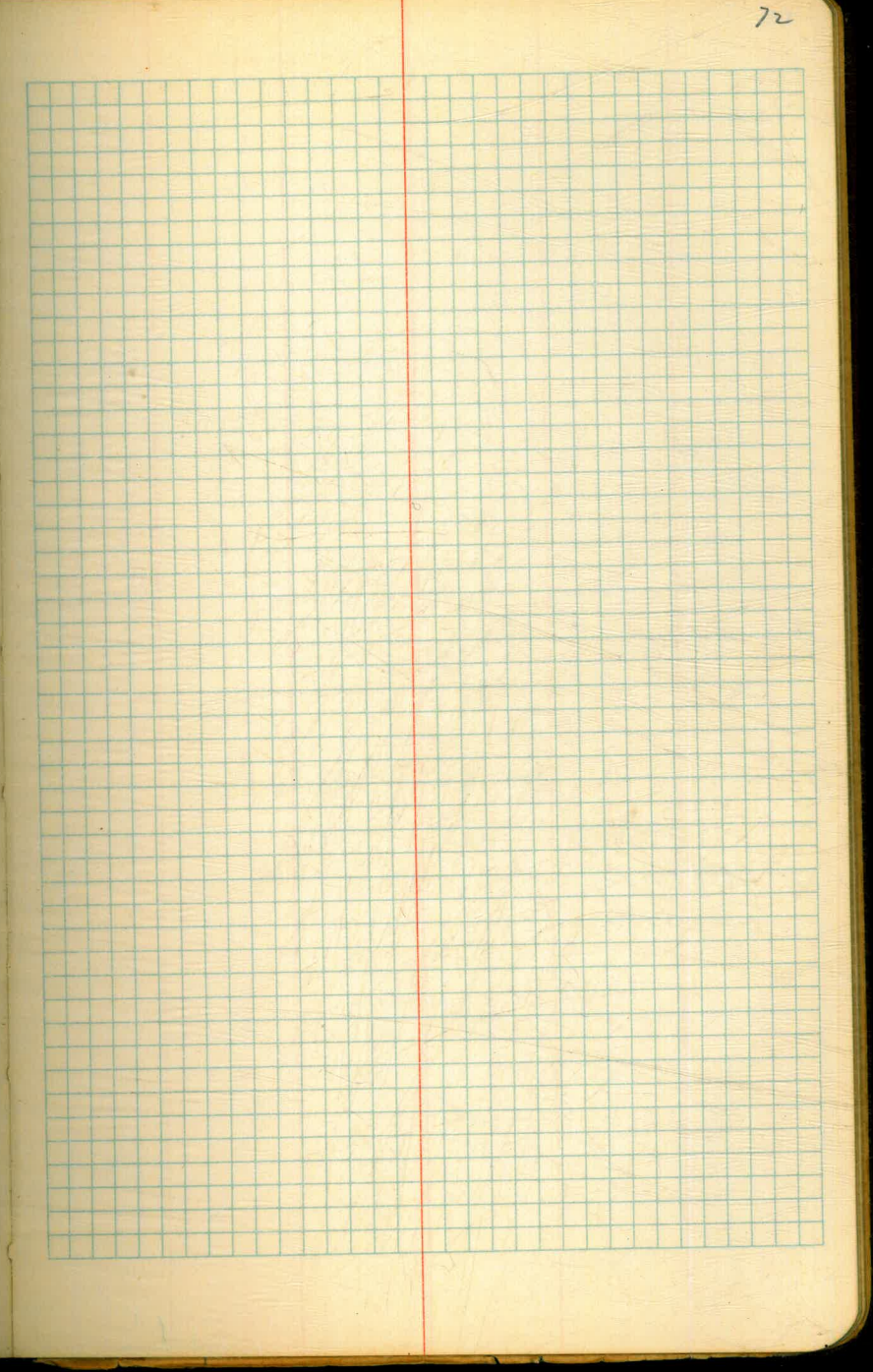
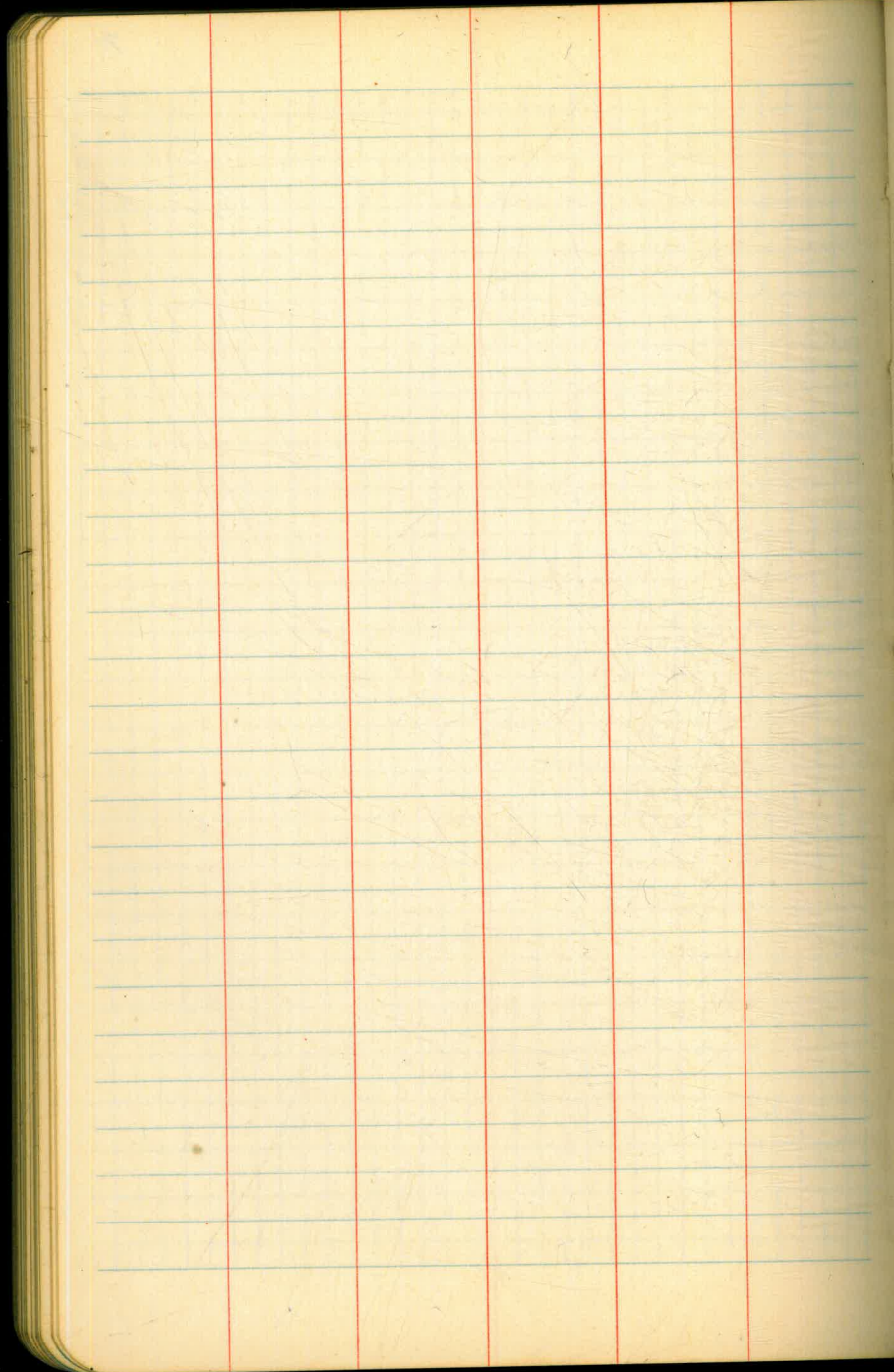


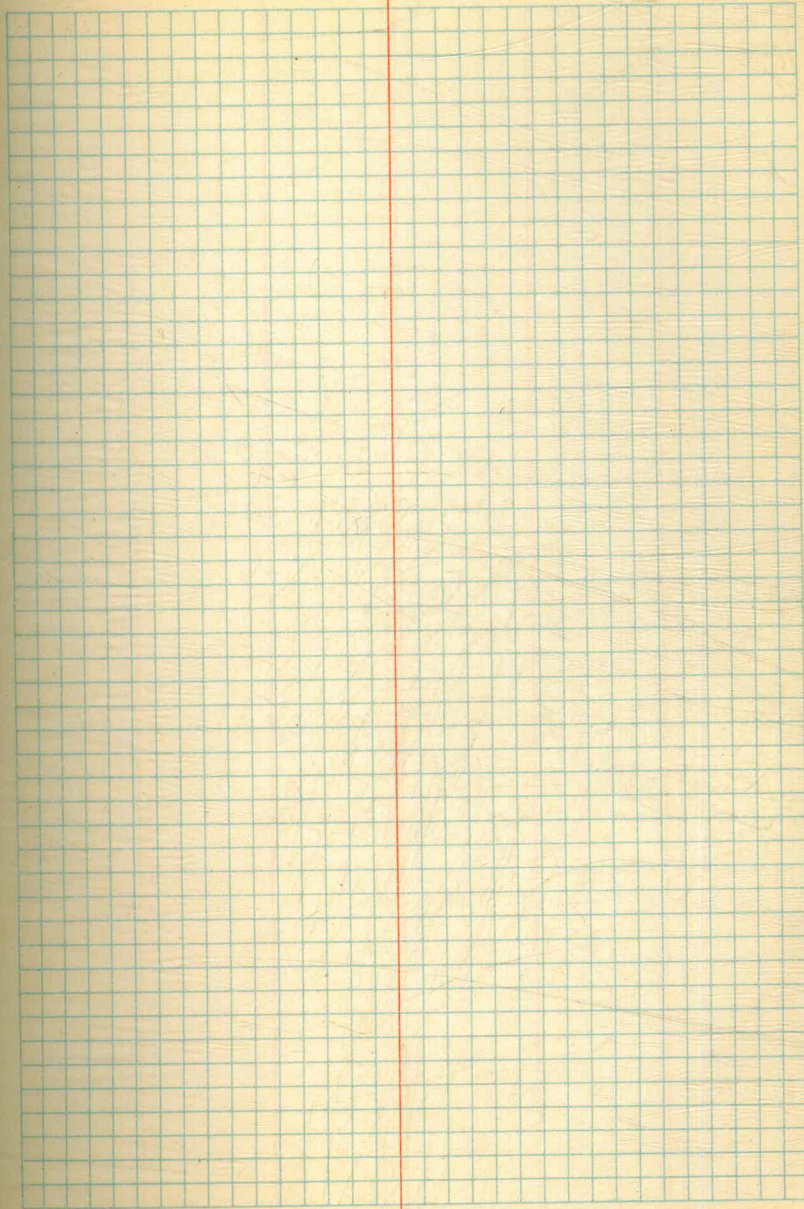


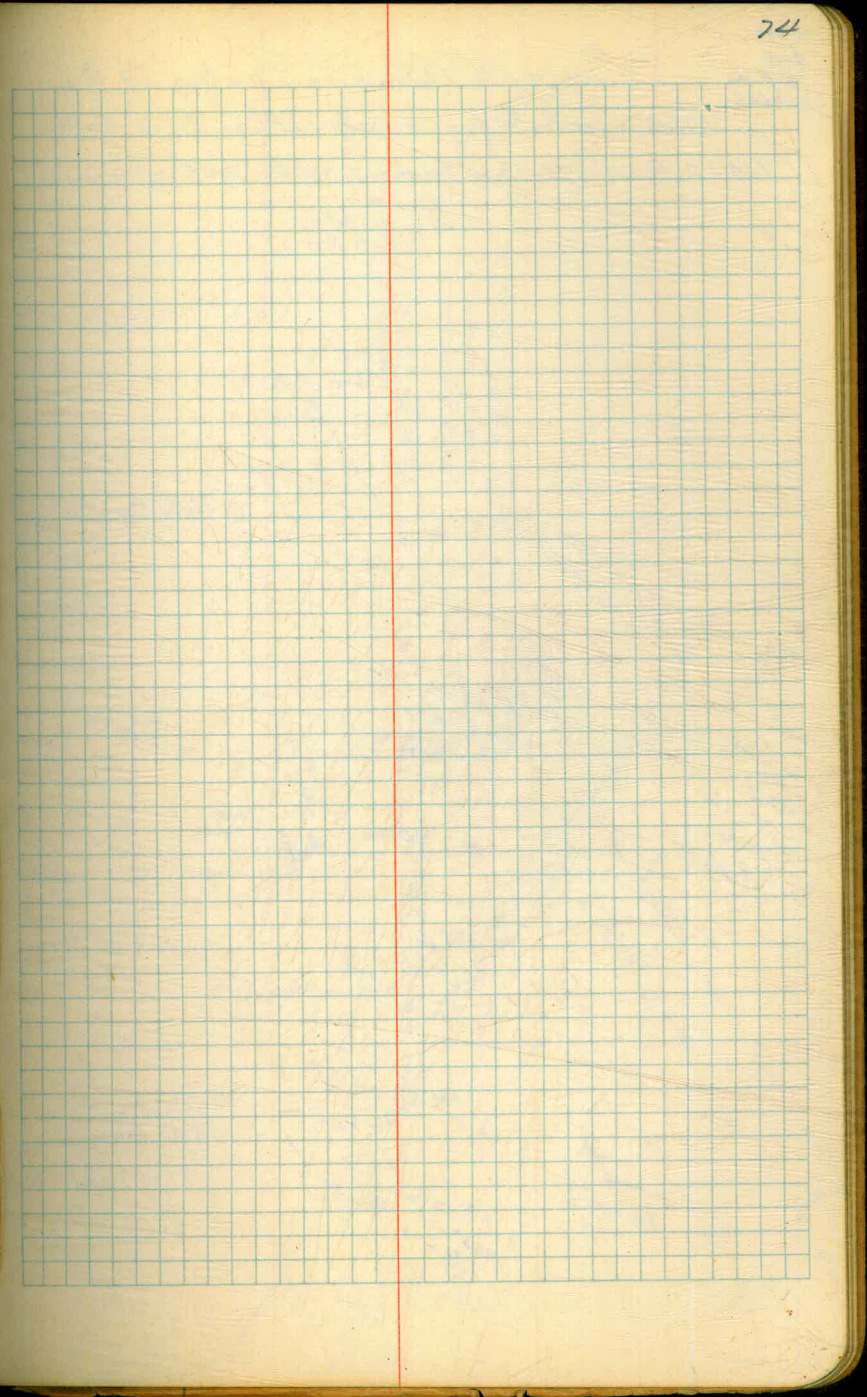
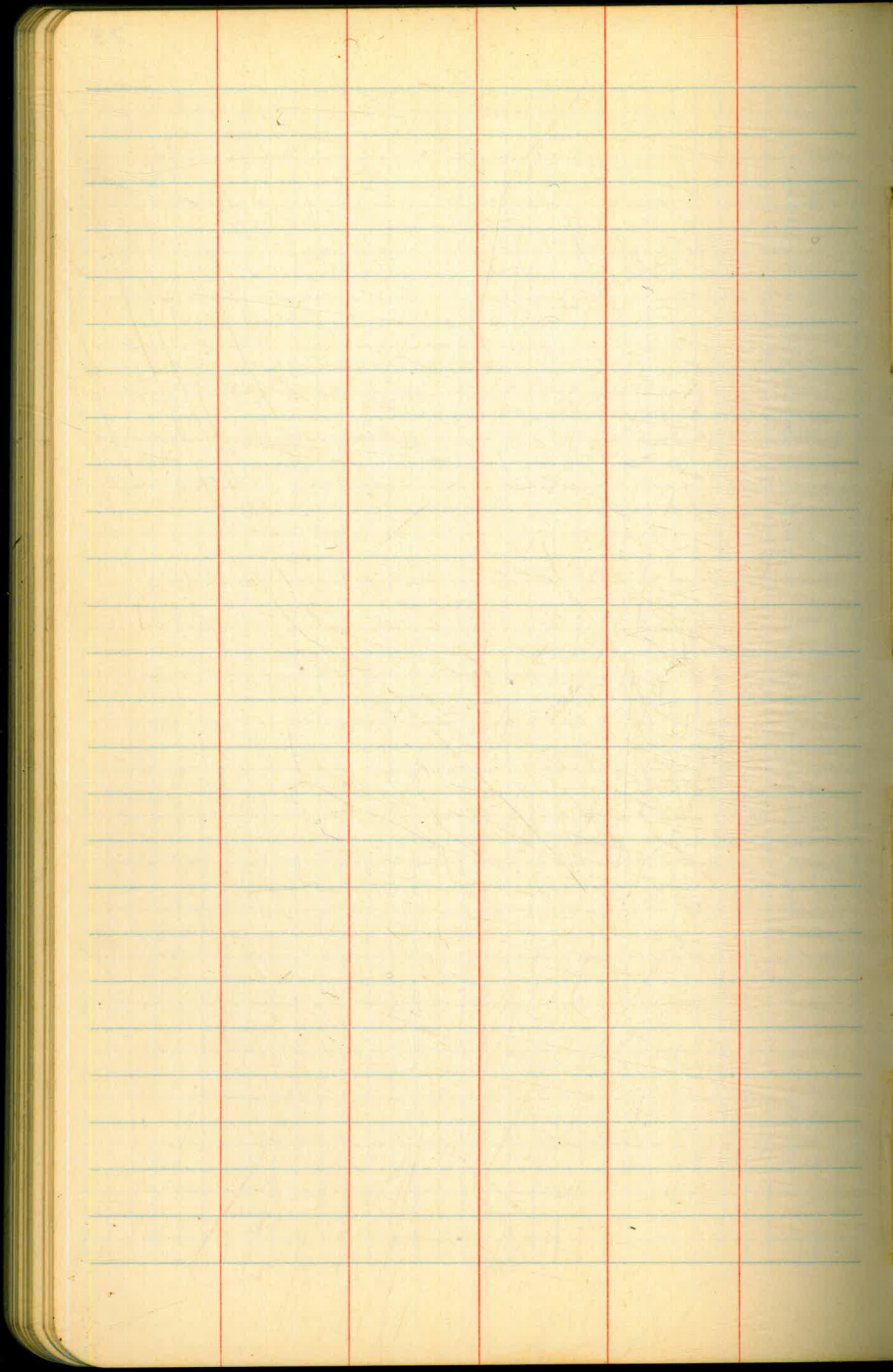










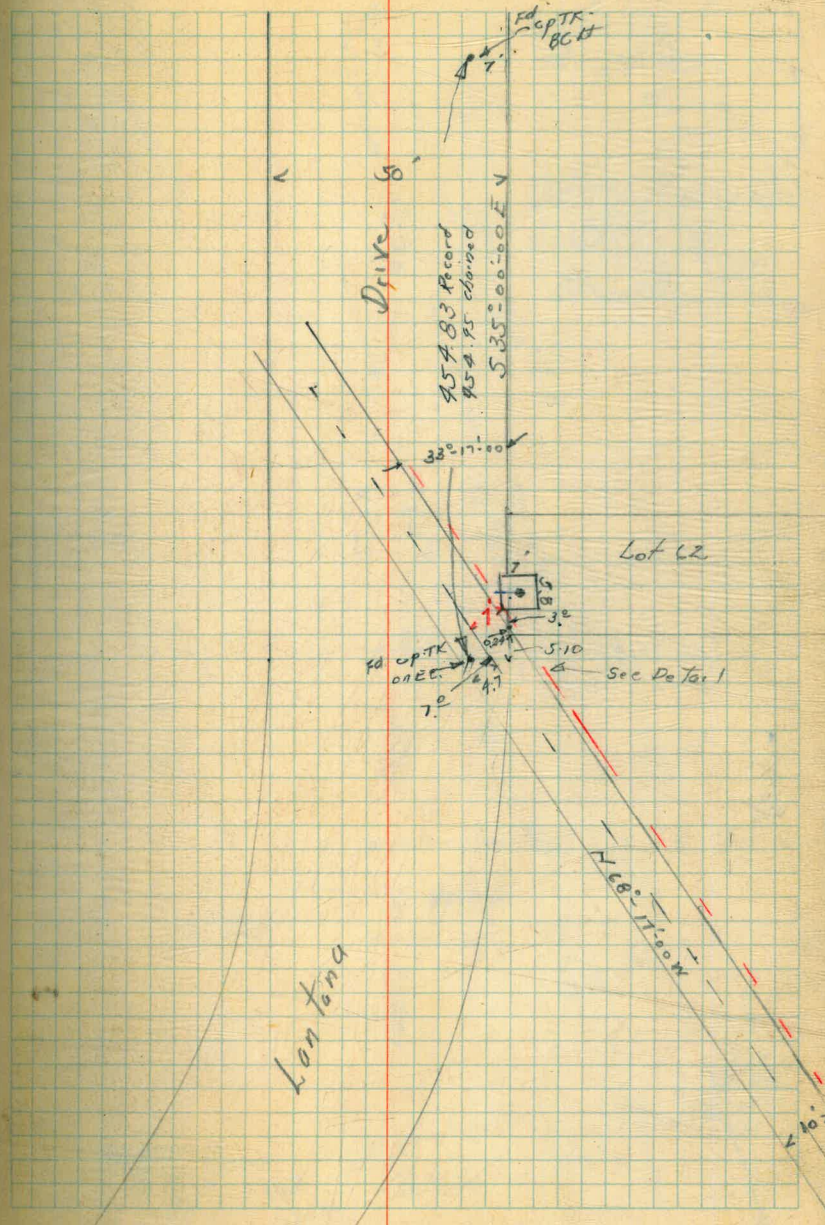
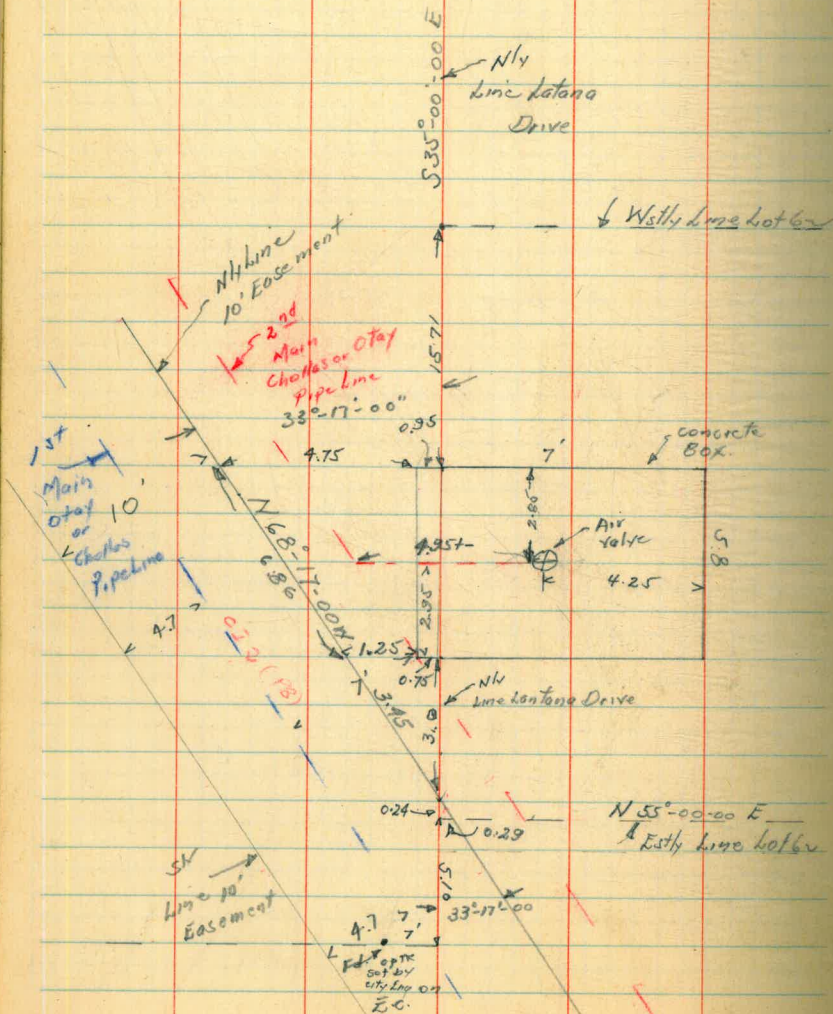


Bliss
King
Phillips
1/17/46

Survey to Determine Location of Air Valve & Concrete Box. Vicinity Lot 62, Block 4, Map

1347-G. Resub of Map 1035 Fairmount Addition on Lantana Drive

Ed. C. P. T. K.
on BC. Set by
City Eng.



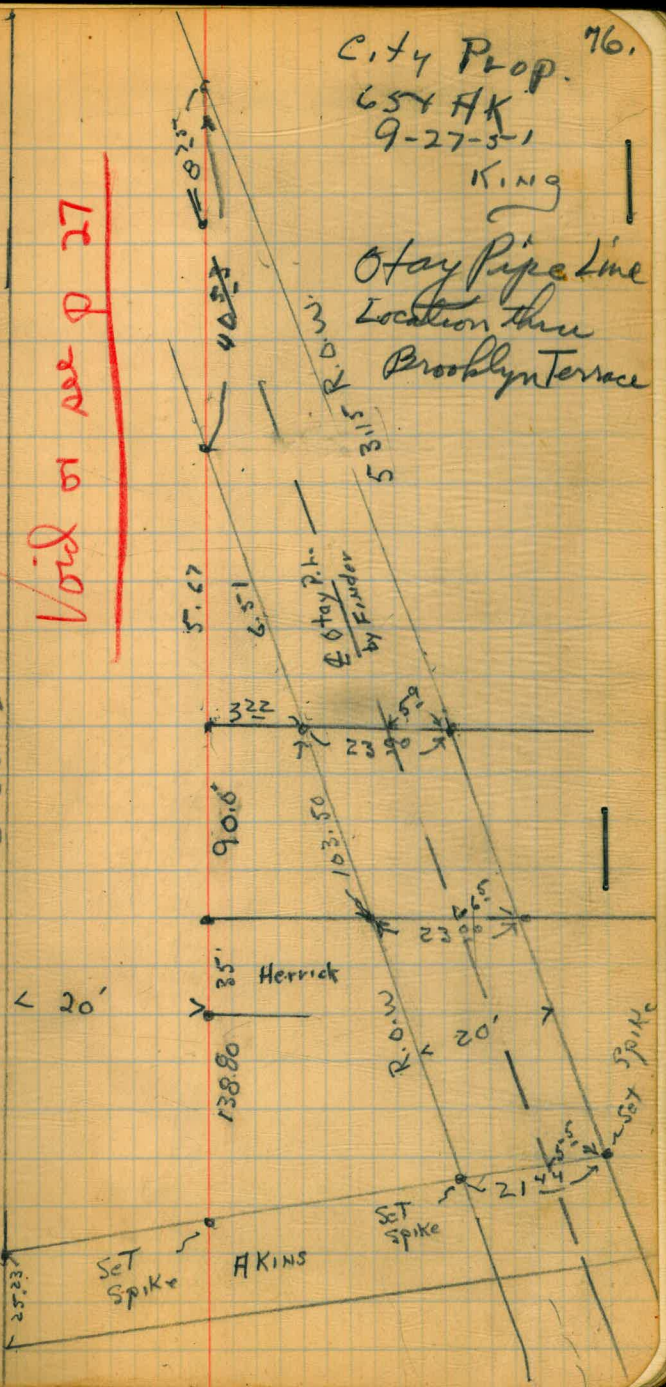
City Prop. 76.
654 AK
9-27-51
King

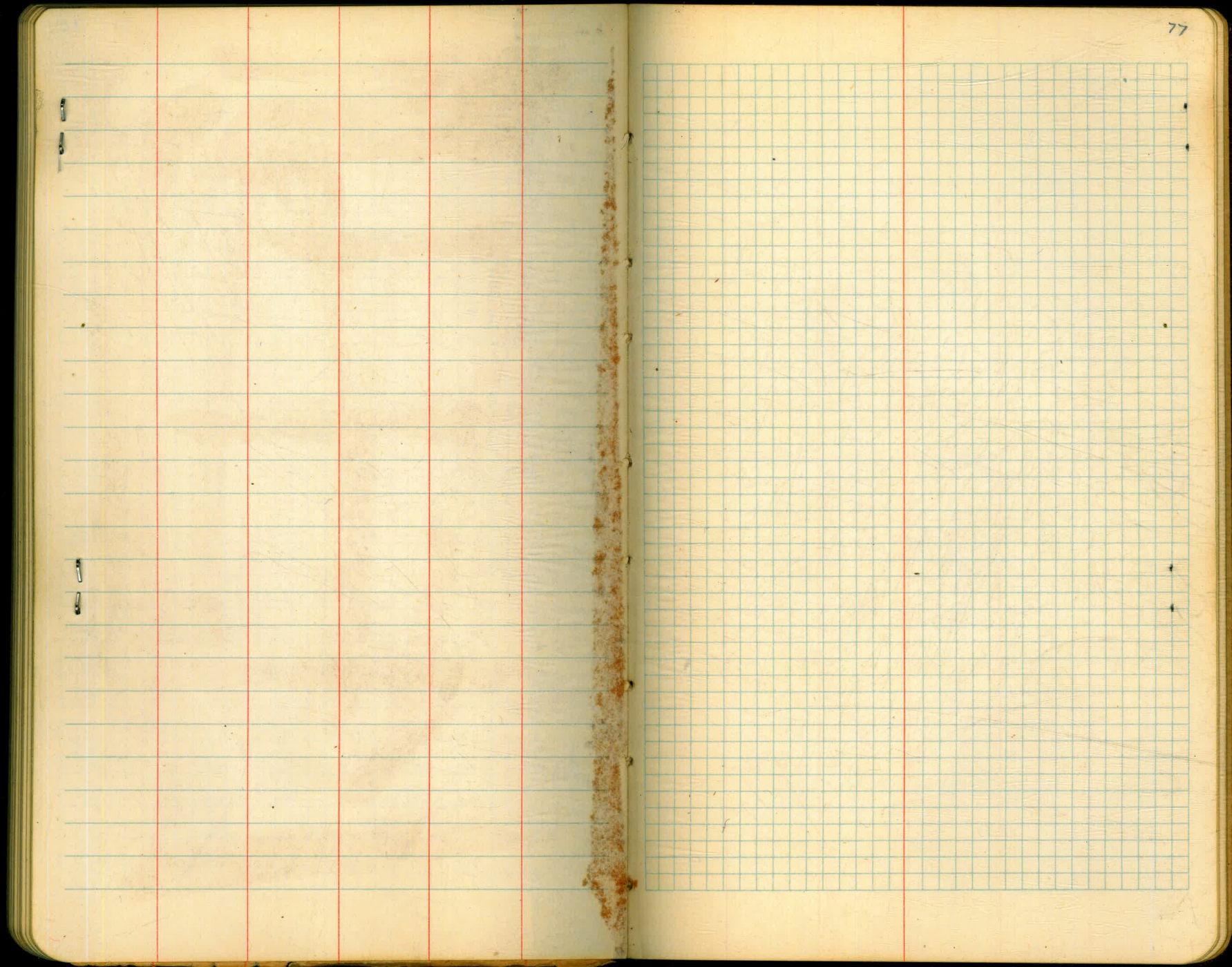
Stay Pipeline
Location thru
Brooklyn Terrace

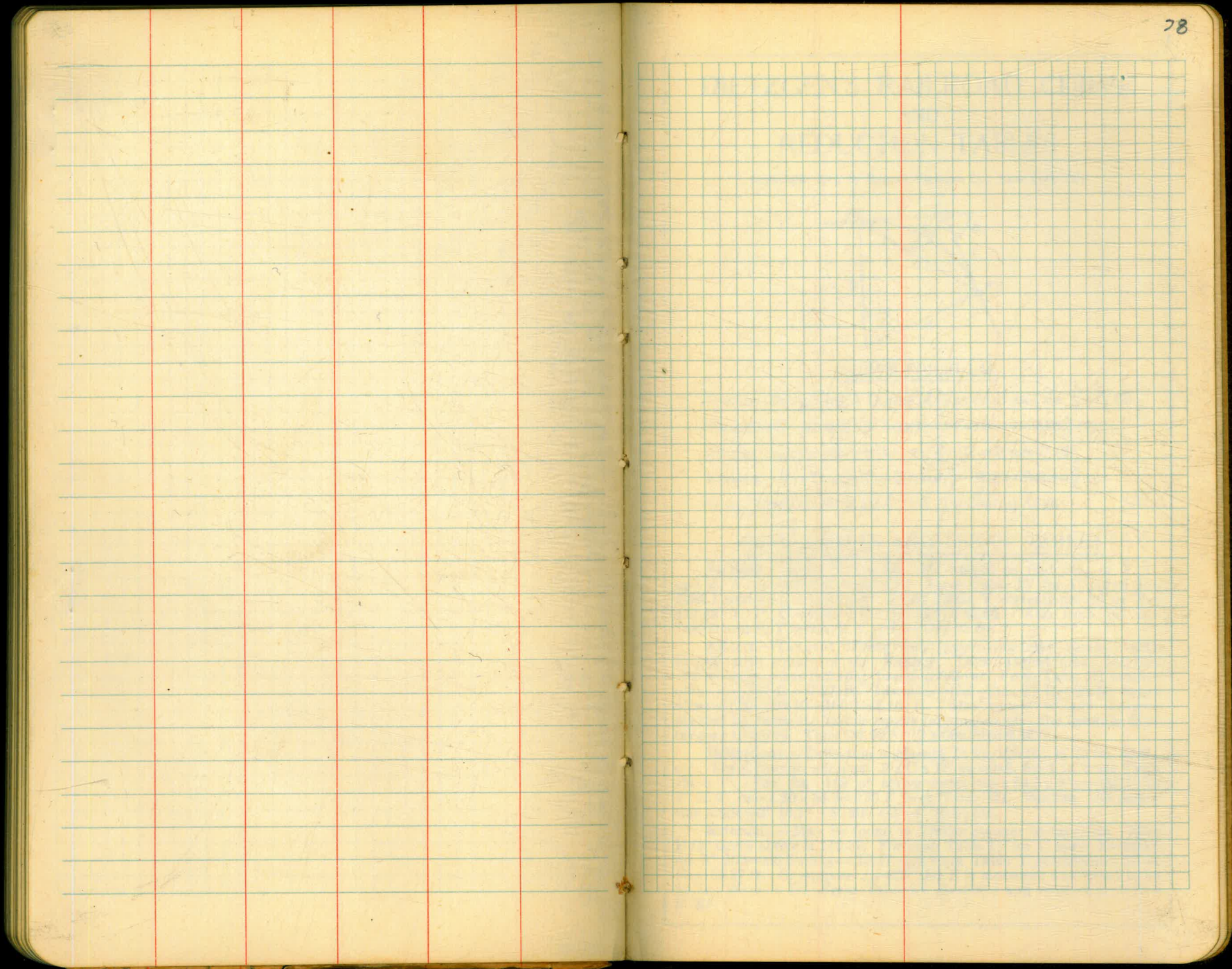
Void on Ave P 27

65 ST

177 PP
177 PP
F 177 PP







1320

1311.50 → To P.I. & Road to West.
 850
 00

4	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

4048	660	61306
4015	1280	15700
		40
150/3.30(2.2)		1980
300		2790.06

4048	424
4015	1.7
	422.3
	35
	418.8
	35
	415.3
	35
	411.8
	35
	408.3
	35
	404.8

550	1920
	1650
	2700
	7750

35
5
175

4+28.75 New 10° 652+636
 = 23+57.4 oldline .55
 117.50
 350 402.3
 6450 20° 55

R-1885

654321
 789101112
 1312131415
 1620212223

24 424.0
 405.3
 0.18 550 / 119.70 | 34
 16.50
 22.00

411.86 Water course 1.7

+ 25 11.9
 + 50 11.9
 + 75 10.0

405.3
 401.5
 33.8
 1.21
 2.52
 2.3
 2.3 50
 1.50
 1.3
 3.65
 405.3
 2.5
 402.8
 1.3
 401.5
 150 | 300
 300

5.38

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.