

JOB. NO. 88

NAME

Broadway Extension.

Class

Course

Party

Unit # 2.

Book # 10

# 110

RETURN TO  
Watson, Valle & Gough, Inc.  
508 Spreckels Bldg.  
San Diego, Calif.

1970

# FIELD NOTES

No. 403P

ESPECIALLY ADAPTED

TO THE USE OF

ENGINEERING STUDENTS

EUGENE DIETZGEN Co.

MANUFACTURERS

DRAWING MATERIALS

MATHEMATICAL AND SURVEYING INSTRUMENTS

MEASURING TAPES

CHICAGO SAN FRANCISCO NEW YORK  
NEW ORLEANS PITTSBURGH

BROADWAY EXT.

C. St.

30th St. to

MICROFILMED

DEC 30 1964

JOB. NO.

88

Property of  
Watson, Valle & Gough  
508 Spreckles Bldg  
San Diego

INDEX

Page

Sta. Dist. Angle  
Az. Def. ± Ties-

0+00

⊙ St. Preliminary -

"A" Line -

Check this line before  
using for location -

Profile on  
Page 10.

St.

6th

6/14/26

Coate

Clifton

Key

Spauser

30<sup>th</sup>

Street

x

Sta.	Dist	Angle		Ties
		Az.	Def.	

13+24.29  
P.I.

59° 18'  
118° 37'

59° 18' E

See Pg 4 for  
B-Line.

32<sup>nd</sup>

Approx

St.

Sta. Dist. Angle-  
Az Def. # Ties-

(Cont'd on Pg. 6)

16+69.28 181°13' 1°13' Rt.  
2°26'

17+69.85 119°44' 6°16' Lt.  
P.I. 239'28'

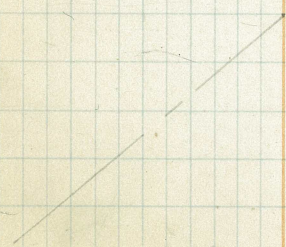
B.D.W.V.

33<sup>rd</sup>

22 feet  
approx ±

St.

21+69.48  
Find Conc Mon.  
With Brass Plug



Sta.	Dist.	Angle Az.	Def	Ties -
------	-------	--------------	-----	--------

16+85.00 P1.		203°30' 16°59'	23°30' R	
-----------------	--	-------------------	----------	--

15+25 P1.		226°23' 92°46'	46°25' R	
--------------	--	-------------------	----------	--

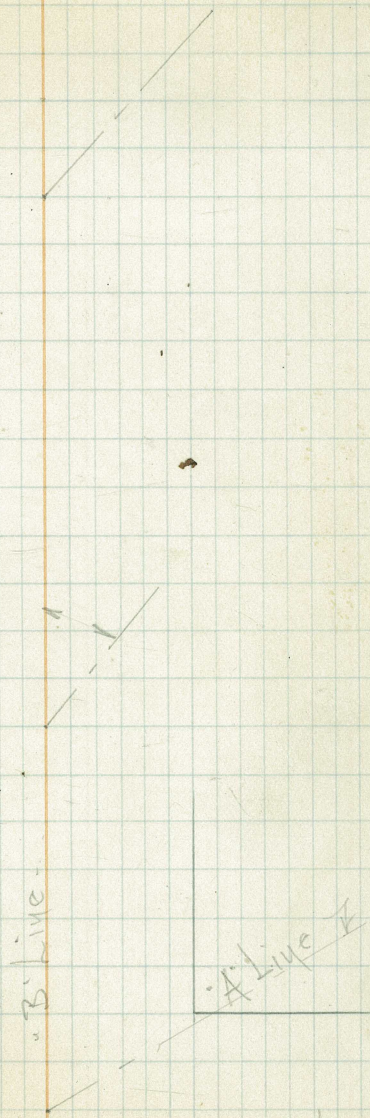
13+24-29

"B" LINE

4

32<sup>nd</sup>

St.



Sta.	Dist.	Angle	Ties
		Az. Def	

↑ 19+50.64 A	109° 09'	70° 51' Lt.	
19+66.40 =	218° 18'		
↓			

18+50  
POT

"A" 70° 51' ↓  
Line

Sta.	Dist.	Angle Az.	Def.	± Ties-
------	-------	--------------	------	---------

6

40+00  
P.O.T.

32+78.10  
P.O.T.

Cont'd from Pg. 3



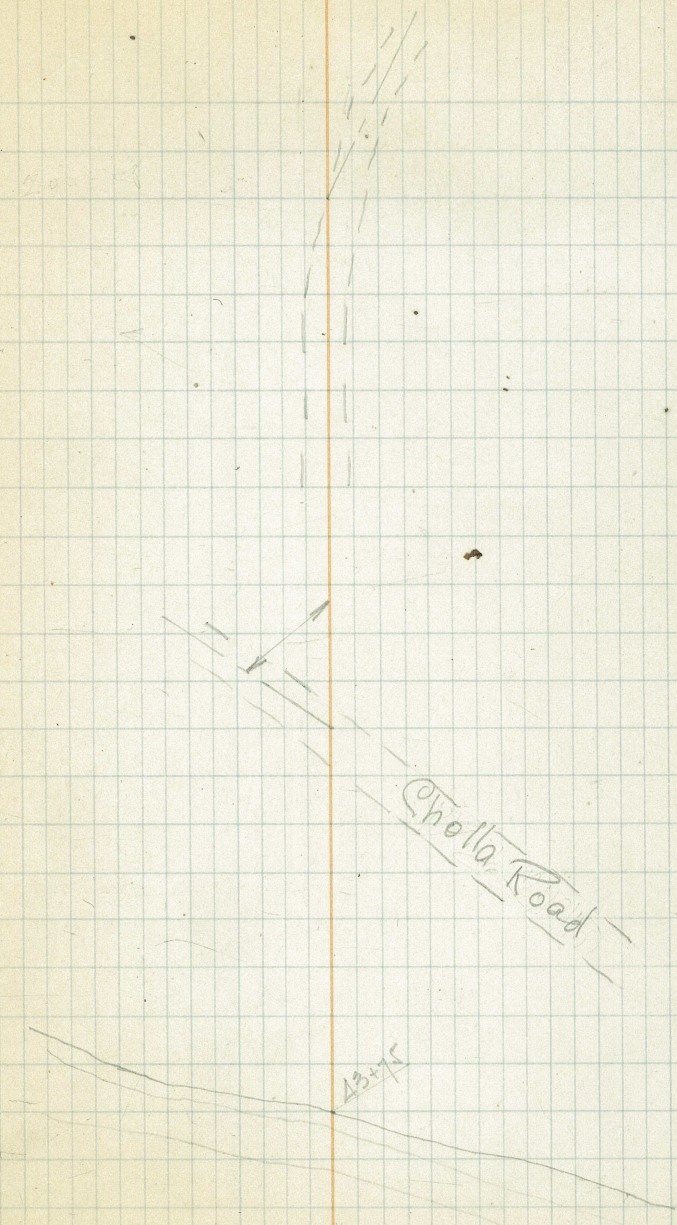
Sta.	Dist.	Angle	
		Az.	Def.

A8+25.00 P.I.		200°08 +40°17	20°08 Rt.
------------------	--	------------------	-----------

A4+11.00 P.I.		129°58 259°56	50°02 Lt.
------------------	--	------------------	-----------

A3+95.00 P.O.T			
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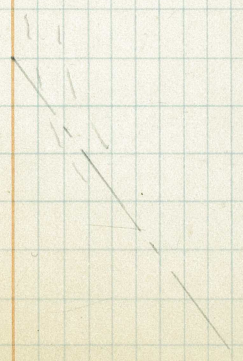
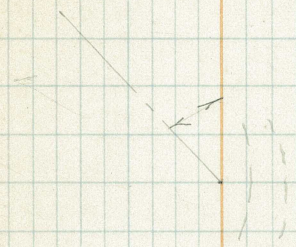
7



Sta.	Dist.	Angle Az.	Def.	Ties -
------	-------	--------------	------	--------

53+07.00 P.I.	166°12' 332°24'	13°48' L		
------------------	--------------------	----------	--	--

50+68.00 P.I.	180°35' +19°10'	9°35' R		
------------------	--------------------	---------	--	--



Sta

Dist

Angle  
Az Def

9

8+28.00  
P.I.

109° 00  
+57° 59

© St. Profile

	+	H.I. ✓	-	Σl.	Assumed Σl. -
Blu	11.87	206.78 211.87			194.91 200.00
			11.76	195.0	
+20			12.5	194.3	
+30			11.99	195.0	
+50			11.6	195.2	
1			6.8	200.0 ✓	
	4.63	211.18 216.27	0.23	211.64	206.55 ✓
2+00			3.9	207.3	
+50			2.2	209.0	
			2.16	209.0	
			2.16	209.0	
3+00			2.0	209.2	
+27			2.5	208.7	199.52 ✓
4+00		200.33 ✓	7.6	203.6	199.62 ✓
T.P	0.81	205.42 ✓		11.66	204.61 ✓
				188.7	
5+00		190.98 ✓	11.6	188.7	188.73 ✓
T.P	2.25	196.07 ✓	11.60	193.82 ✓	
+50			10.80	180.2	
6+00			13.4	177.6	
+50			14.9	176.1	
7			14.1	176.9	

"A" LINE -

10

6/14/26

By instruction of Mr. Vale See Pg 21 for correct Elev.  
On Ctr. Curb Return N.E. Cor 30th & C Sts.

Intersection C + 30th on Conc Pav  
Gutter

Elev Top Curb R. Sta 2+50  
" " " L " 2+50

	190.98 ✓ 196.07	10.7	180.3 189.7 ✓
7+45 +90		1.3	190.60 ✓
	202.11 ✓ 207.20	0.38	195.69 ✓
8	11.51	11.5	190.6
+50		7.0	195.1
9		4.6	197.1
10		3.2	198.9
+50		3.5	198.6
11		5.0	197.1 ✓
	197.86 ✓ 202.95	5.13	202.07 ✓
+31 12	0.88	2.0	195.9 188.9
	186.60 ✓ 191.69	9.0	186.24 ✓
+65 13	0.36	11.62	191.33 ✓
	175.44 ✓ 180.53	7.7	178.9 176.4 ✓
+21.29 P1.	10.3	10.2	177.41 ✓
+50		12.19	179.50 ✓
		1.76	173.6 173.68 178.77
		4.1	171.3

$$\frac{4.06}{26 \text{ curb}} \neq \frac{5.23}{26} \text{ curb}$$

Outlets (Use for B.M.)

		175.44		168.7
		<del>180.53</del>		
1.4			6.7	165.0 ✓
+50			10.4	163.41 ✓
		163.92 ✓	12.03	<del>168.50</del> ✓
	0.51	<del>169.01</del>		
15			3.7	160.2
+50			8.4	155.5
16			12.4	151.5 ✓
		152.18 ✓	12.21	<del>156.80</del> ✓
	0.47	<del>157.27</del>		
+50			6.3	145.9
+78			8.2	144.0
17			10.5	141.7 ✓
		140.21 ✓	11.99	<del>145.28</del> ✓
	0.02	<del>145.30</del>		
+50			5.9	134.3
+69.85			10.1	130.1
18			11.2	129.0 ✓
		129.84 ✓	11.84	<del>133.46</del> ✓
	1.47	<del>134.93</del>		
+50			4.5	125.3
19			11.1	118.7 ✓
		119.22 ✓	11.94	<del>122.99</del> ✓
	1.32	<del>124.31</del>		

		119.22		112.1
		<del>124.31</del>		<del>117.1</del>
19+50		✓ 7.1		✓ 107.02
	0.19	108.13	11.28	✓ 113.03
		<del>113.22</del>		
+85		8.1	100.0	
20		10.3	97.8	
+22		15.1	93.0	
21		16.3	91.8	
+14		14.5	93.6	
+38		9.3	98.8	
+50		3.7	104.4	
+69		1.8	106.3	
22		2.0	106.1	
+47		0.6	107.5	
23		1.7	106.4	
24		3.1	105.0	✓
T.P.		1.51	111.71	✓

Core Brass Plug in Core Man 40' Lt 21+69  
 N.W. Cor 33<sup>rd</sup> & Broadway

		175.06		173.68
		<del>180.15</del>		<del>178.77</del>
36m	1.38	✓ 163.95	11.85	✓ 168.30
	0.74	169.04	10.1	153.9
			7.40	155.6

Outlets # 13+24.29 See Pg. 11  
 Intersection 32<sup>nd</sup> & Broadway  
 Top Man Hole "

# St. Profile

Btu	✓	173.94	✓	173.65
0.26		<del>179.03</del>		<del>178.77</del>
13+50		4.6	169.3	
14		10.8	163.1	✓
		11.41	162.53	✓
0.85		<del>163.38</del>	<del>167.62</del>	✓
		<del>168.47</del>		
+50		5.1	158.3	
15		9.8	153.6	✓
		11.88	151.50	✓
1.06		<del>152.56</del>	<del>156.59</del>	✓
		<del>157.65</del>		
+25		25	150.1	
+50		37	148.9	
16		54	147.2	
+50		10.3	142.3	✓
		12.09	140.47	✓
0.96		<del>141.43</del>	<del>145.56</del>	✓
		<del>146.52</del>		
+85.00		30	138.4	
17		34	138.0	
+25		47	136.7	✓
+50		9.3	132.1	✓
		11.93	129.50	✓
0.83		<del>130.33</del>	<del>134.59</del>	✓
		<del>135.42</del>		

# B Line

14

13+24.29 to 19+66.40

Outub # 13+24.29  
 6/15/2 E  
 Coote  
 Clifton  
 Key  
 Spangal



130.33  
~~135.42~~

18		5.4	124.9	
+50		4.9	125.4	
19		11.2	119.1	✓
	✓	11.2	118.30	
	119.20	12.03	123.39	✓
0.90	124.29			
+50		4.7	114.5	✓
+66.40 =		7.1	112.1	
19+50.60			<del>117.2</del> 121	

from Pg. 13

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T.P.			106.62	
	11.04	117.66	<del>111.71</del>	
		<del>122.75</del>		
	+4.5	122.24		✓

On Brass Plug See Pg. 13

Approx Intersection 33rd & C St.

Profile "A" Line - June-16-26

16

Clifton  
Key  
Spansel

Brass Plug Intersection 33<sup>rd</sup> & 8<sup>th</sup> St  
D

Sta	+	H.I	-	Int	Elev
B.M	3.59	110.71 <del>115.30</del>	(1102)		106.62 <del>111.71</del>
21+69.28				3.9	106.3 <del>102.1</del>
22				4.2	106.0 <del>102.4</del>
+25				3.7	106.5 <del>102.8</del>
+50				2.8	107.4 <del>103.8</del>
23				4.0	106.2 <del>102.6</del>
+50				5.6	104.6 <del>101.0</del>
24				6.1	104.1 <del>100.5</del>
+50				8.2	102.0 <del>98.4</del>
25				9.9	100.3 <del>96.7</del>
+50				9.7 ✓	100.5 <del>96.9</del>
T.P	3.19	103.75 ✓	9.65	100.56	
26		(103.8)		3.6	100.2
+50				2.5	101.3
27				3.1	100.7
+50				5.2	98.6
28				5.9	97.9
+35 POT				6.2	97.6
29				8.0	95.8
+50				10.7 ✓	93.1
T.P	1.29	93.07 ✓	11.97	91.78	
30		(93.1)		2.9	90.2
+50				5.4	87.7
31				7.6	85.5

Sta	+	H.I	-	Int	Elev
		93.07	(93.1)		
31	+50			10.4	82.7
32		✓		12.0	81.1
T.P	0.78	81.85	12.00	81.07	
32	+50	✓		2.3	79.6
+78 <sup>10</sup>	ROT 1.03	78.16	4.72	77.13	
33		✓		6.1	72.1
T.P	0.84	67.43	11.77	66.39	
	+50			5.7	61.5
34				8.8	58.4
	+50			10.2	57.0
35		✓		10.5	56.7
T.P	4.07	60.27	11.03	56.20	
	+50		(60.3)	4.8	55.5
	+84			4.7	55.6
	+85			6.5	53.8
36				6.8	53.5
	+31			6.6	53.7
	+35			9.9	50.4
	+50			8.8	51.5
37				7.4	52.9
	+23			8.2	52.1
	+41			10.1	50.2
	+50			8.6	51.7
	+55			3.5	56.8

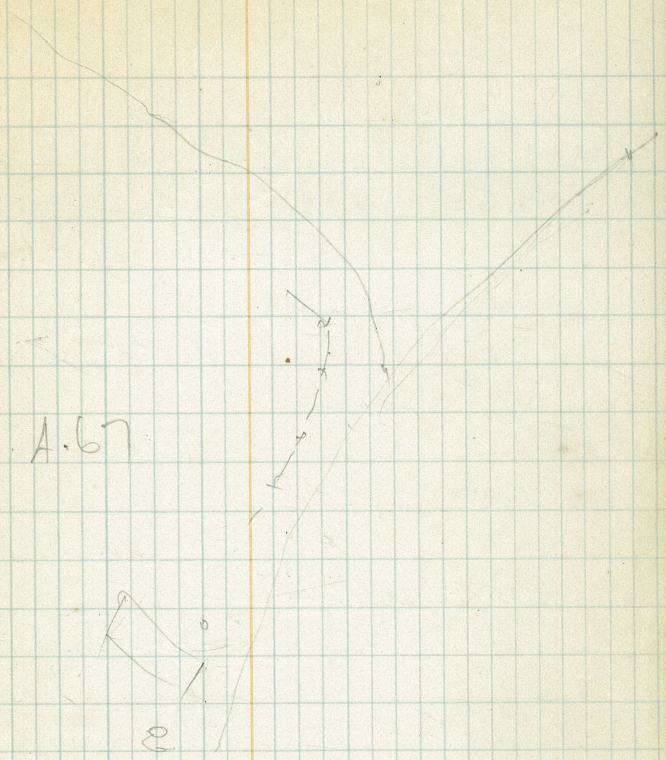
B.M. on P.O.T. Hub. Sta 32+78<sup>10</sup>

Sta	+	H.I	-	Int.	Elev.
		60.27			
			(60.3)		
37+78				1.9	58.4
38		✓		6.0 ✓	56.3
T.P	5.14	59.56	5.85	54.4 ✓	
39+50			(59.6)	5.2	54.4
39				4.2	55.4
+50				5.0	54.6
40				4.9	54.7
+20				8.0	51.6
+50				10.3	49.3
41				9.1	50.5
+		✓		10.2 ✓	49.4
T.P	8.18	56.94	10.80	48.76	
41+68			(56.9)	8.8	48.1
42				7.1	49.8
+25				5.8	51.1
+50				5.5	51.4
+60				4.4	52.5
43				4.8	52.1
+33				6.5	50.4
+50				3.8	53.1
+70				3.2 ✓	53.7
T.P	11.34	64.64	3.64	53.30 ✓	
+80			(64.6)	7.8	56.8
+90				5.7	58.9

Sta	+	H.I	-	Int	Elev.
343+95		64.64	64.6	4.20	60.4
B.M	4.27	64.64	4.27	60.37	
P.I					
44+11			64.6	4.4	60.2
+50				4.3	60.3
45				3.9	60.7
+50				3.7	60.9
46				3.1	61.5
+50				2.4	62.2
			2.30	62.34	
	5.41	67.75			
47			67.8	4.8	63.0
+50				4.6	63.2
48				4.6	63.2
+25 P.I.				5.1	62.7
49				4.5	63.3
50				4.1	63.4
+68 P.I.				3.8	64.0
51				4.0	63.8
			3.33	64.47	
	5.89	70.31			
52			70.3	5.5	64.8
+97 P.I.				4.6	65.7
54				3.7	66.6

B.M. on P.O.T. Hub Sta 43+95

Sta	+	Hl	-	El.
		70.31		
55		(70.3)	2.8	67.5 ✓
		✓	1.69	68.62 ✓
	7.80	76.42		
56		(76.4)	7.3	69.1
57			6.6	69.8
58			5.2	71.2
+28 Pl.			4.5	71.9
59			3.9	72.5
60			3.0	73.4 ✓
		✓	2.49	73.93
	6.54	80.47		
61		(80.5)	5.0	75.5
62			4.6	75.9
63			5.6	74.9
64			5.0	75.5
+64.00 Pl.			4.1	76.4
			A.67	75.80



Nail in F.P. Lt Sta 64

Levels from City Btu 31<sup>st</sup> B to tie in to  
assumed Btu at 30<sup>th</sup> & C Sts.

21

Btu

2.50 209.74

0.50 208.74 ✓

11.04 219.78

2.09 217.69 ✓

6.05 223.74

11.85 211.89 ✓

0.07 211.96

11.77 200.19 ✓

0.15 200.34

5.43 194.91 ✓

19.81

31.64

206.74

City Btu Brass Plug in curb  
N.W. Cor 31<sup>st</sup> & B Sts.

- 31.64

+ 19.81

11.83

206.74

11.83

194.91 ✓

6/15/26

Coote

Clifton

Key

Qtr. Curb Return NE Cor. 30<sup>th</sup> & C  
See Pg 10 for assumed Elev.  
for this Btu.

22



23

24

25



27

28

29

30



31

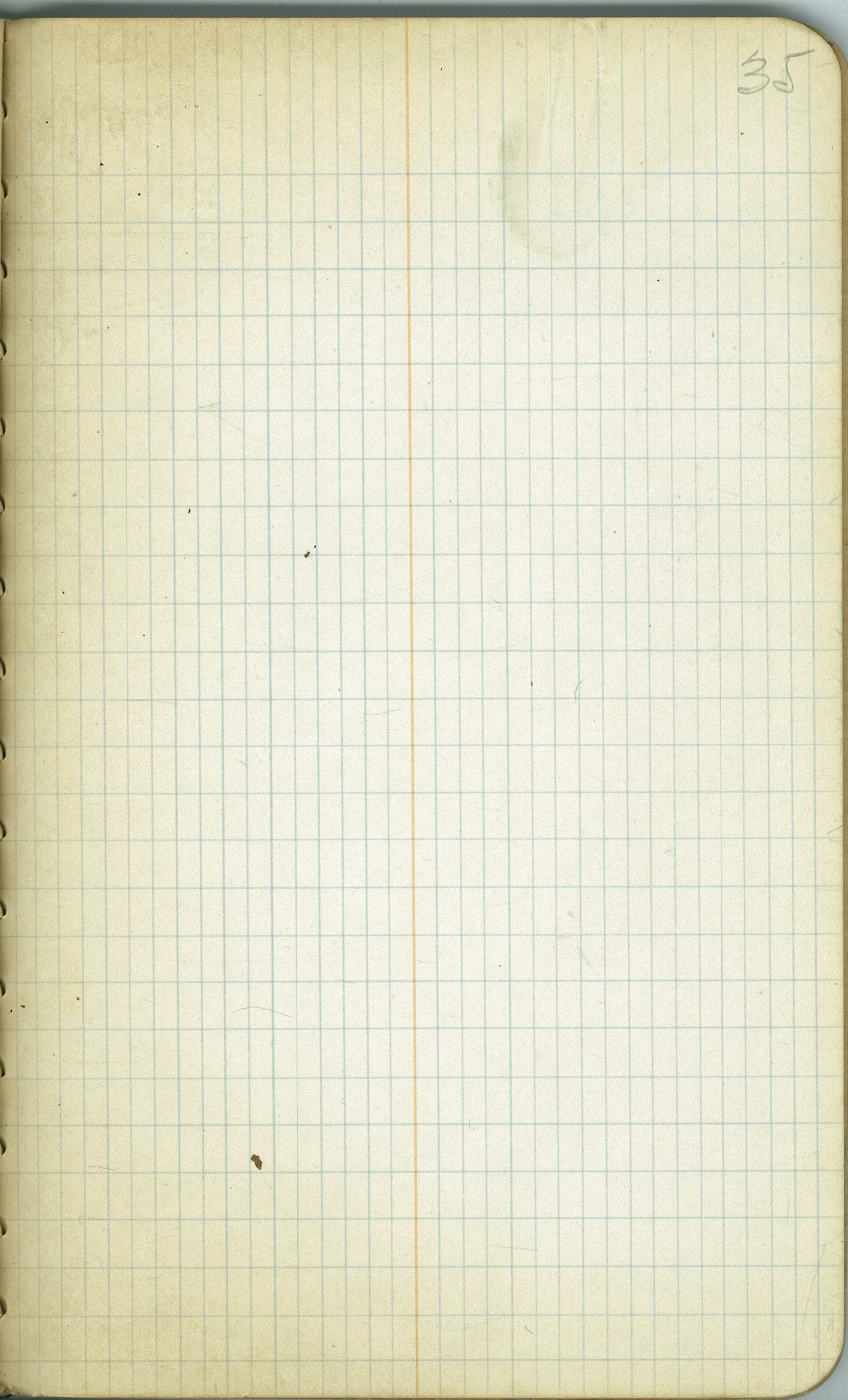
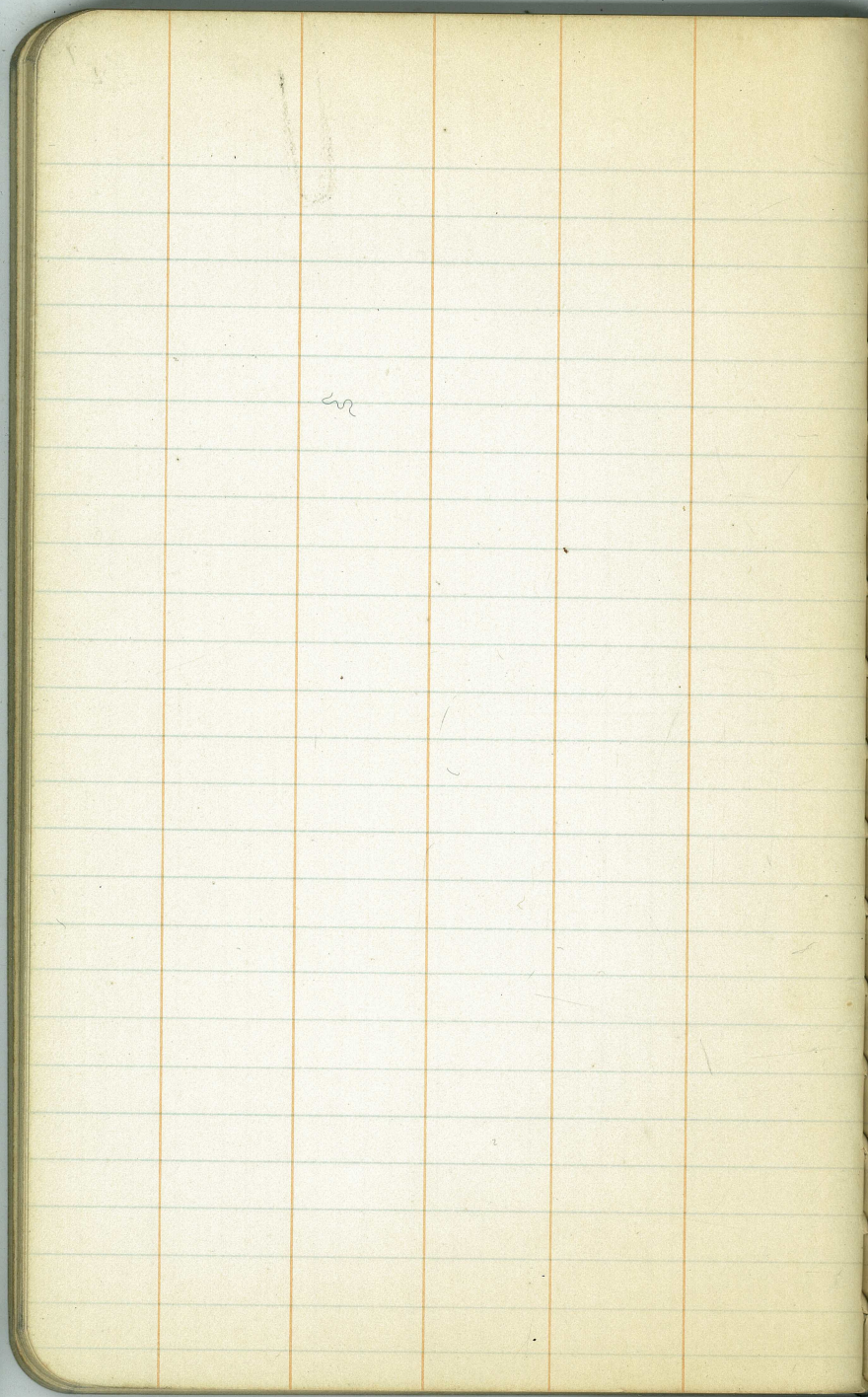
32

33

22

34

3



13+24-29 229-18  
250  
118-37

17+1985 119-28  
239-28

1 = F 40 -13%  
2 = Gr -9%  
3 = W -7%  
4 . -9  
5 . 9  
6 - 9

+69.21  
18.  
67.49

250  
12 80  
20000  
27 24000

80  
600  
48600

200  
8.  
16000  
12  
34  
16  
194,000

28+30.35  
P.O.T.

33nd

C

Broad

37nd