

871

F. B.
871

KEUFFEL & ESSER CO.
DRAWING MATERIALS
 AND
SURVEYING INSTRUMENTS.
NEW YORK.
 CHICAGO. SAN FRANCISCO. ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
 FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tables see end of book.

447
17.53
664.53
13.47
678.00

7
y

1612
114
6448
6612
1612
1837.68

1129.5
1878
51.5

100114
176
240
176
640

1541.3
1878
1353.5

11018
7878
974.0

871

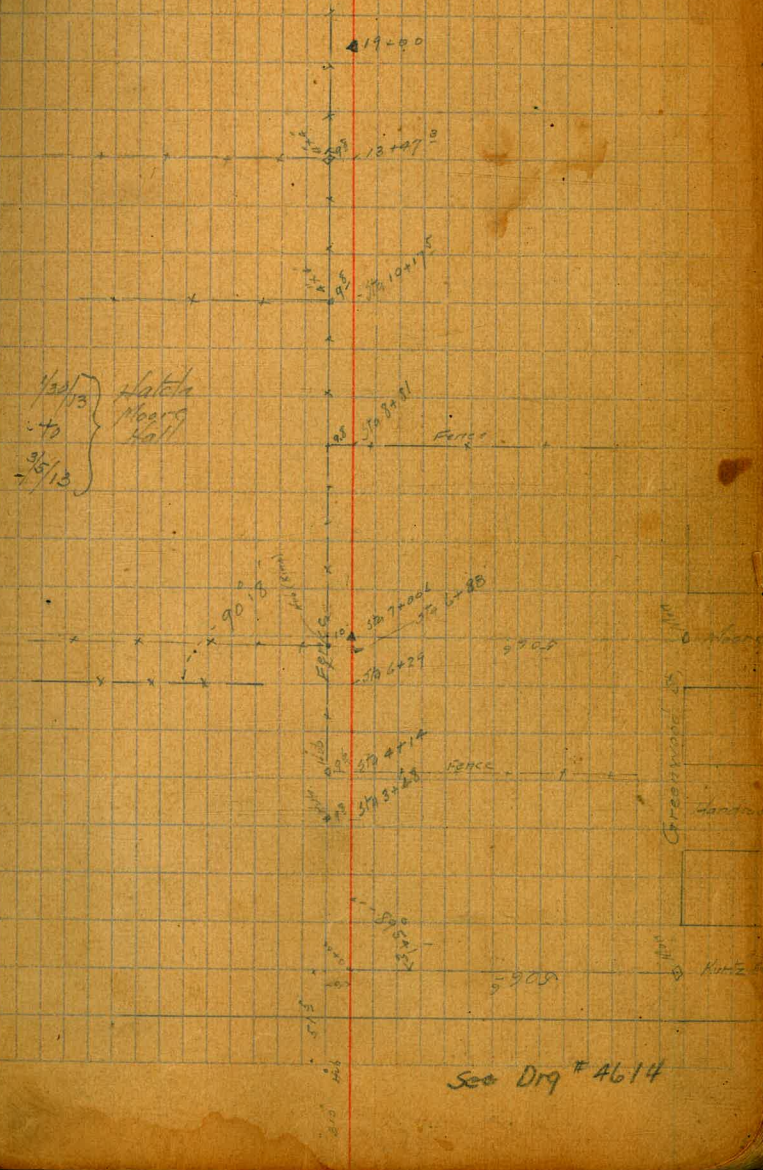
342.10
78.25
927.90

50.00

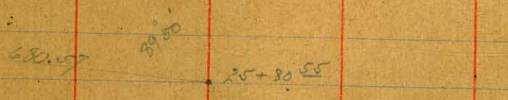
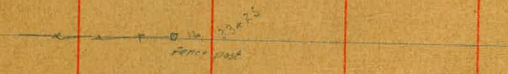
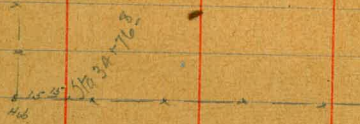
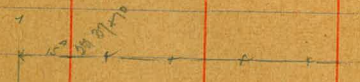
342.10
50.00
196.71
15.00
351.56
342.70
8.86

Survey of Pueblo N. of Old 1
Town

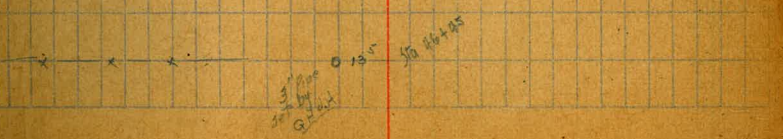
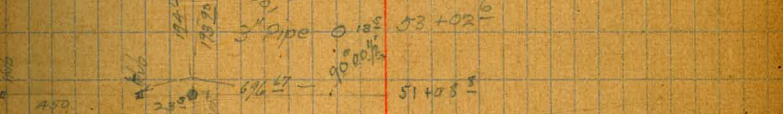
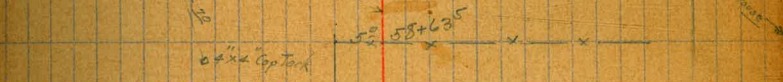
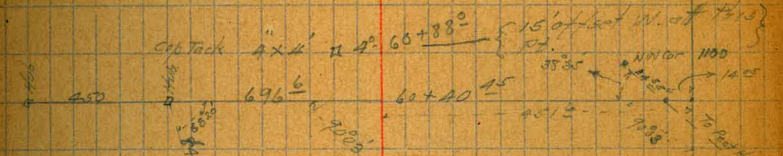
"A" Line



See Dry # 4614



Transit line is 15' E of Ph
from this pt to 56 60+88



78+79° 32° 2'

72+40° 90°

71+26° 33°

A 67+15° Top of Hill

66+19° 112° 2' Cap Jack

65+17° 81° 2' 1/2
scarf sta 40

65+05° 130° 40' Spike

1 sta 21+95 Hub marked (Line)

2 sta 15+93 3x3 white scarf marked Biggs, 3 Ave, 130 [Fence across both
across valley from here]

3 sta 15+71 Cap N. in fence, 1x2 white marked (Lot X)

4 sta 12+10 1/2 1" Arc, Equatorial spikes (1x2 white marked (Lot X))

5 sta 10+72 2x2 2' 1/2 " Scarf (131)

6 sta 10+72 2x2 2' 1/2 " Scarf (BJ or RJ)

7 2x2 white marked 100

8 2x2 white marked 100

59° 50' 1/2

38 1000

92+22°

sta 94200

1x2

93+23°

3x2 with 2x2 scarf 103 93+37°
marked 291 - N.W. (SLW)

Survey at Call Iron Works Wharf. Site

3rd Natl
Map
1860

N. St
224'

9th St

5727

25510
38530E 144'



01X 146

M

2452

6053

N 1° 09' W

St



7th St

3/27 Hatch
11/13 7m 8
11/13

7th

245.7 to NE 60° 8' W
110.29 W (2)
110.22 W

California Works

N 10° 00' 00" E 100' W
N 10° 00' 00" E 100' W

525 80' 100' 20'

240

4733

99.95

87

N 0° 24' 48" W

1025

551' 00" S 0' W

→ 116 NINE S.D.-A WHARF BUILDING

N

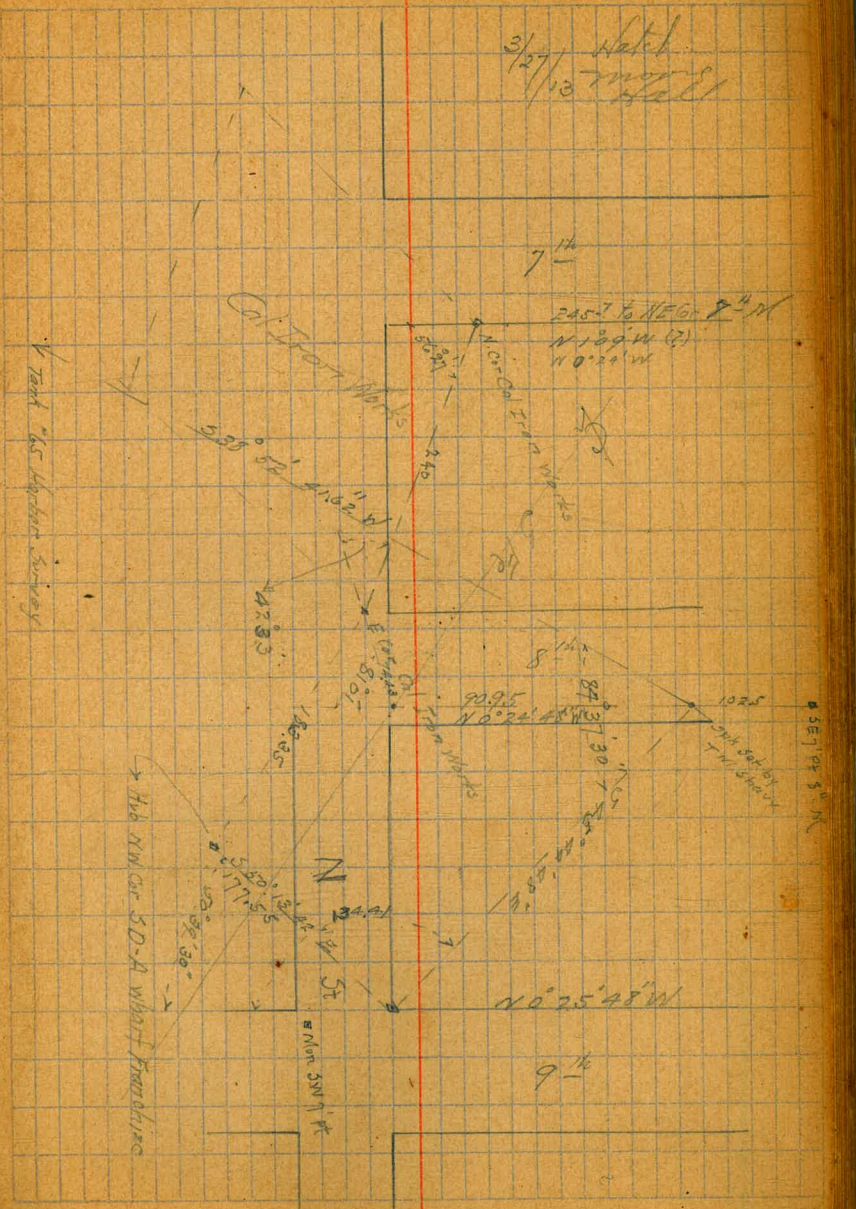
SI

1100 500' FT

N 0° 25' 48" W

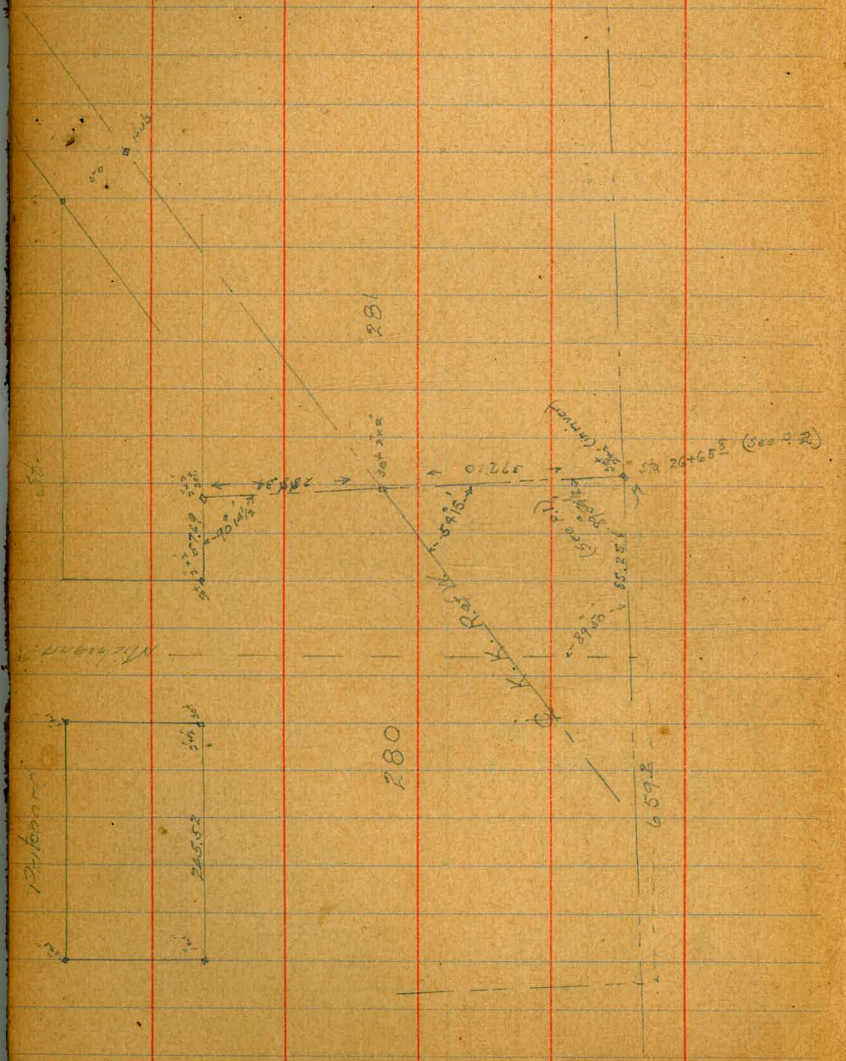
9th

→ 72nd St. Highway Survey



Survey to establish
North Corners Pt 280

4/30/13 Hatch
Morrill
Hall



8-19 H. H. Moore
10-13 H. H. Moore
3+42 54

Survey of Landscape St, Bow
Ave and to Ph 169, 170 of Pt Loma
for Road

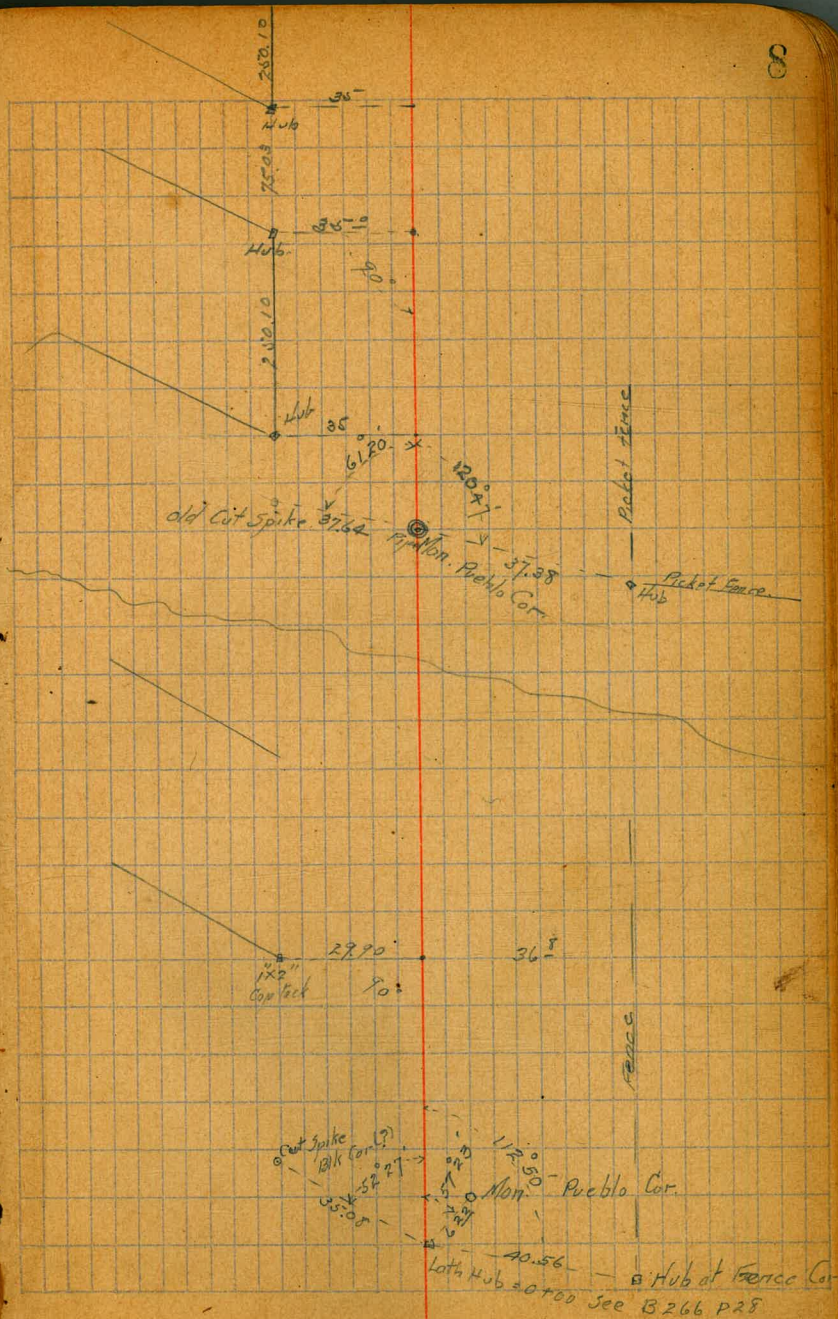
2+67 81

0+17 21

0+00

2+69 6

0+00



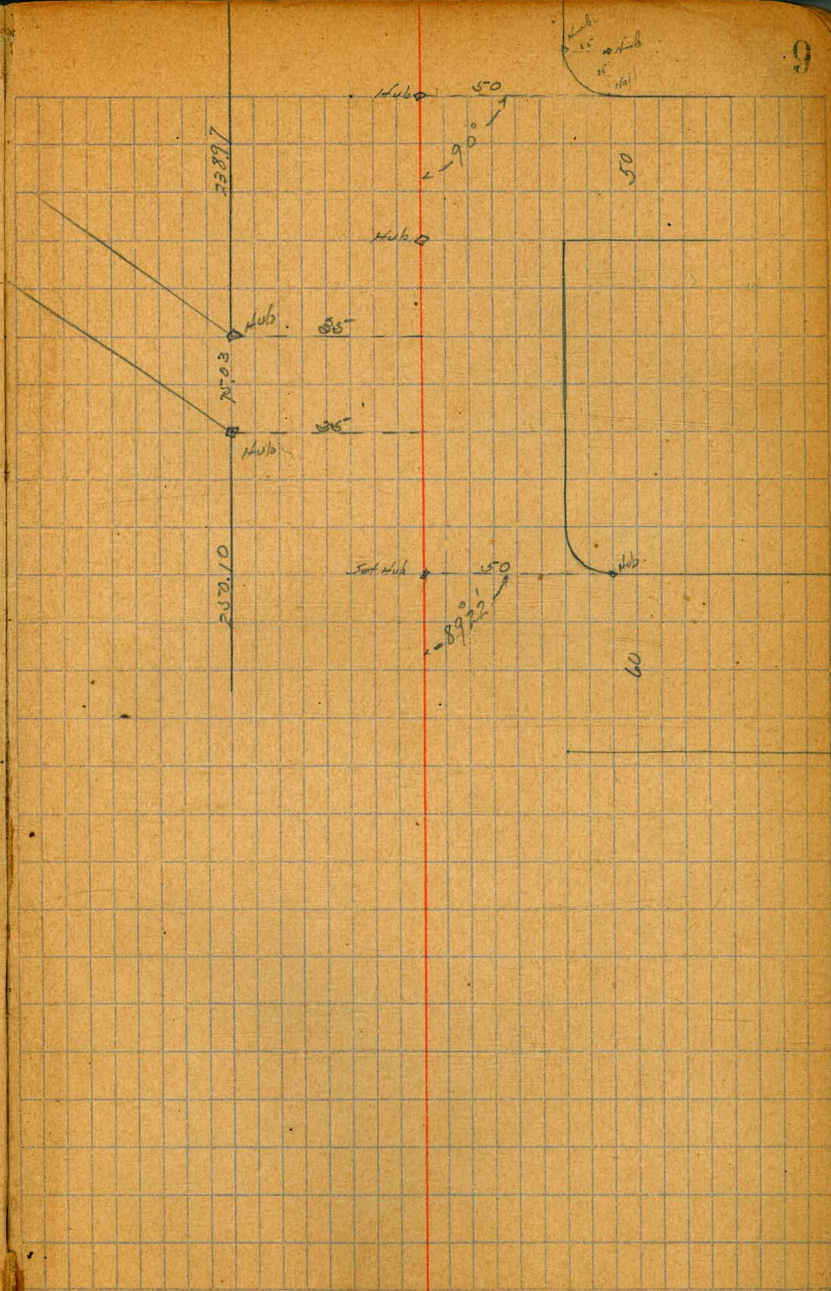
7+79¹⁰

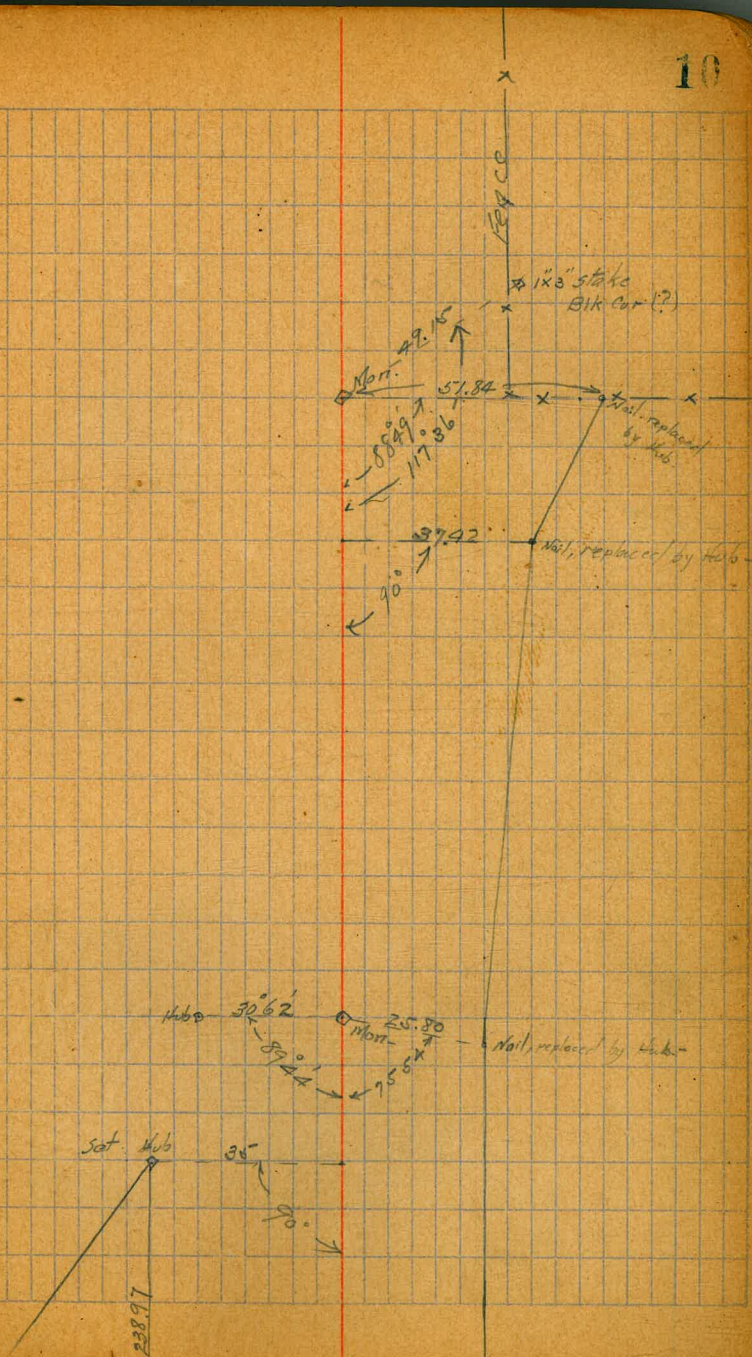
7+29²⁰

6+67²⁷

5+92³⁴

5+04⁸



13+13⁵⁵12+16⁷⁶9+34²9+06⁹⁰

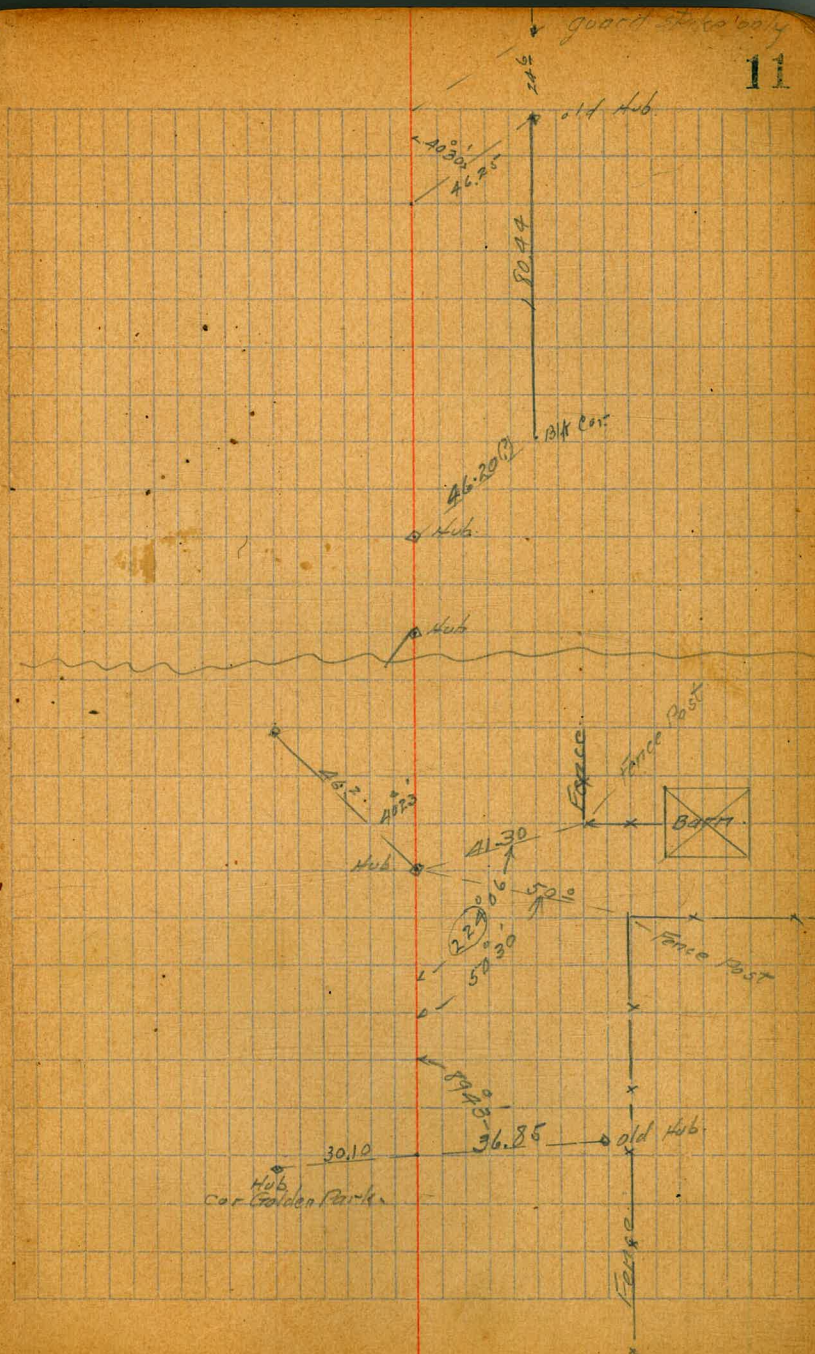
21 + 56 Z

19 + 76 ³⁷

19 + 30 Z

19 + 30 Z $\Delta 40^{\circ} 23' L$?

18 + 25 ³⁵



Angle

L R

30+49⁰⁶

27+76⁷⁵

27+39²⁵

27+25

26+60

25+54⁴⁰ 49⁵³

23+61⁶⁵

12

Hub

5310
3712
Hub End of Curve (See old Notes)
B 266
P 28

9023
2828 - old Hub ✓

old Hub 30+46
Hub
old Hub 28
46.70

Hub PI (See old Notes)
B 266
P 28

old Hub
4223
407
1804

42+06⁹⁵

L

R

37+44⁶⁰5⁰4230+83²⁸5⁰1830+49⁰⁶

Mon. Pl. Cor.

Mon.

172

171

Mon.
Cor 171, 172, 180

4.87 = Hub (old Cor.)

9530

180

Mon.
NE Cor
180

419.70

Hub. buried 8"

9033

336.30

Mon
NW Cor
180

Hub ✓ 298

Hub 298

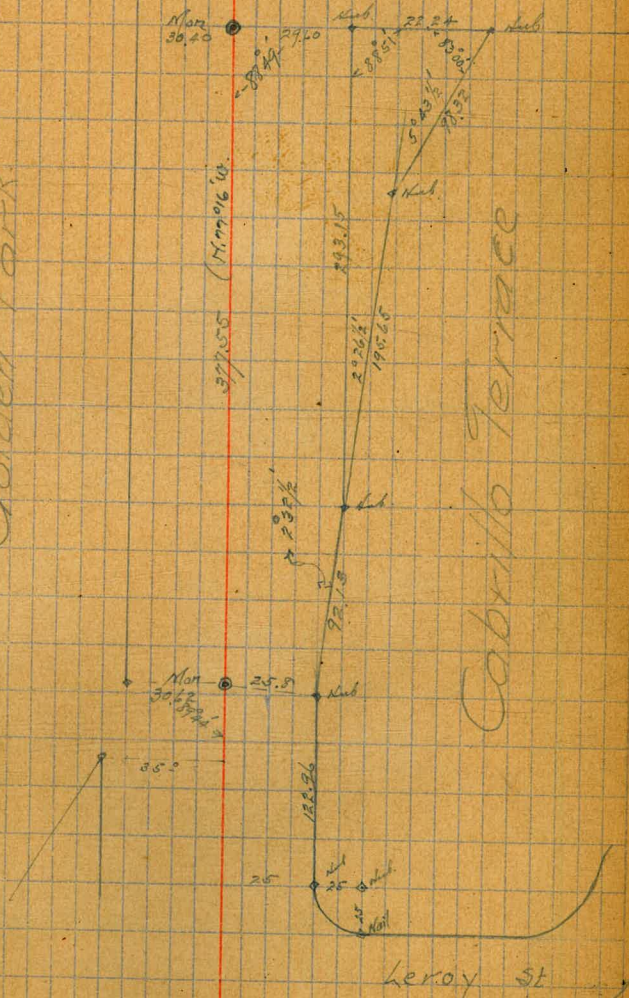
Hub ✓

2/14
1/14
Hatch
May
Hall

Survey for Closing of
Magnetic St. 14

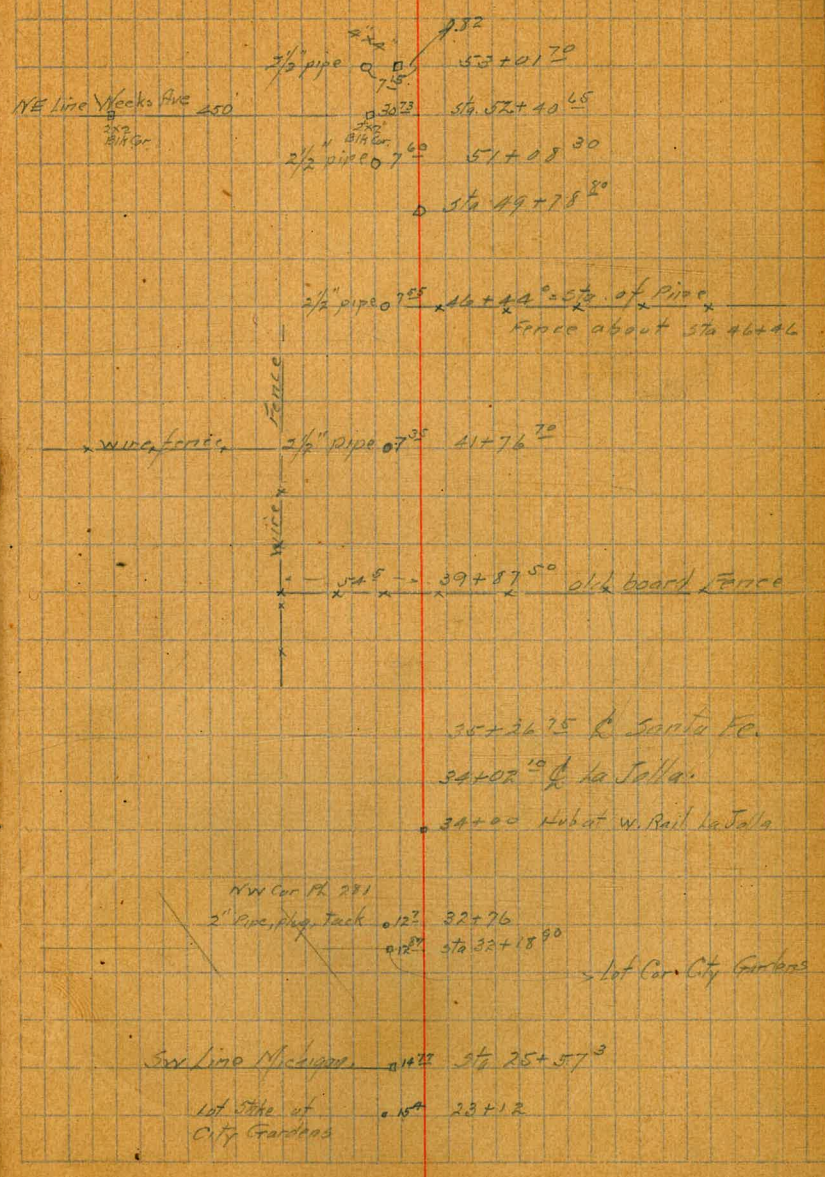
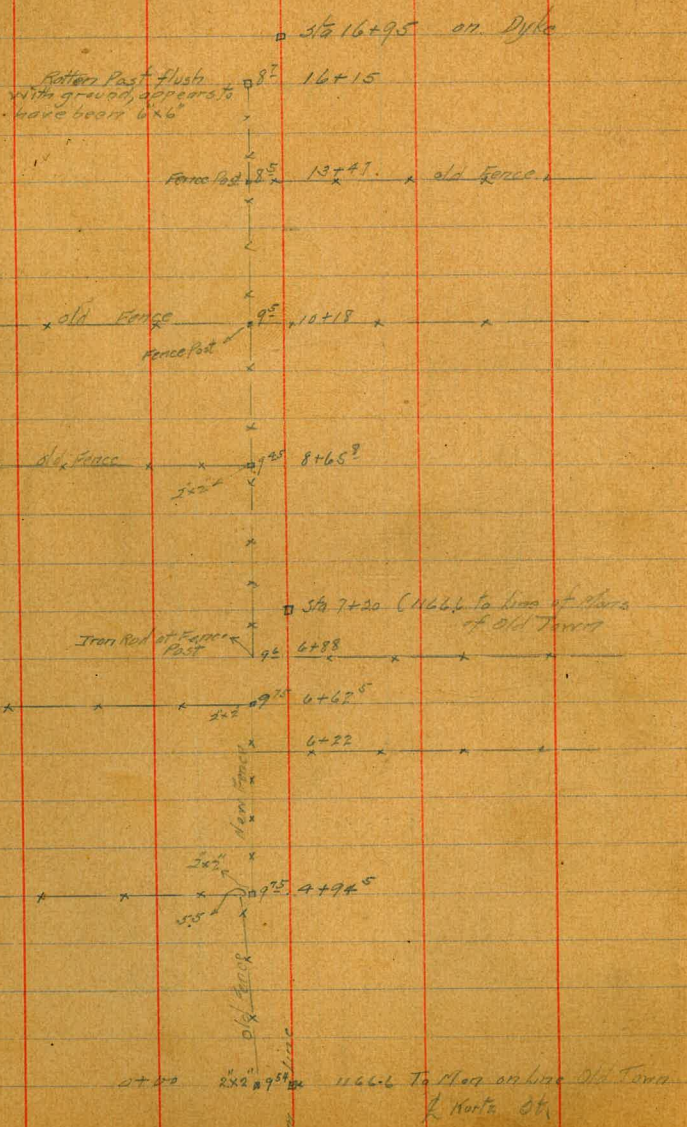
Golden Park

Cabrillo Terrace



7/21/21
 8/11/21
 8/27/21

Survey of Pueblos N of Old Town
"B" line.



D.L. 2000
High Iron Tract

Sta 93+92

Nail 91000

Sta 79+49 Edge of Jacob's Canyon

Sta 78+98 473°

Sta 78+89

Sta 72+30

Sta 65+98

old Hub. 30' 30" S. Cor Overlook
Sta 60+40

Sta 59+61

Sta 57+15

83+99 cont. (1/2 mile)

NE Loc. Bryan Ave
150'

150' 30"

T.T.

Survey of Pueblos N of St. ...
 C. line
 Valley Gardens

Sta 32+22⁶⁵ 75° 32' 22+72⁸⁰
 NE BLS line City Gardens

27+30⁵²
 28° 22' 19+01³⁰
 Southernly line Spencer St.

17+32²⁰
 13+06³⁰
 12° 25' 22+25^{Summit Pt.}

7+20²¹ 953³⁰ to "B" line
 Sta 4+90⁵⁰ 92° 5' Lantz Pt.
 Sta 4+07²⁸ on Dyke
 953³⁰ to "B" line on G. Hurtz St.

102° 25' Sta 4+57³⁰
 116° - 401⁵⁰

127° 0' 2x2' 71'+75" NE Cor. Ph. 264

Mucked BLS F. 9. 2x2' 122²⁵ 67+75⁴⁰ NE Cor. Bldg. Heights

SE Point, Boulevard Ho 122° 0' 122⁰⁵ Sta 56+15⁸³
 Boulevard Gardens Sta 52+92⁷⁰ 122° 0' 2' BLS Cor. NE line Weeks Ave. 440' 2x2' BLS Cor.

28° 10' Sta 52+27⁵⁰
 13° 25' 0' 1/2" PIP Sta 51+96⁰⁰
 13° 25' 0' 1/2" PIP Sta 51+09²⁵

Sta 43+97²⁰
 Sta 42+28⁶⁸ of Santa Fe Track
 9' 0" 2 1/2" PIP + 11+75⁵⁰

39+79⁰⁵
 39+12
 2' 1/2" PIP

Valley Gardens

10⁰⁰ 2 1/2 secant stake
3 1/2 B 194
Sta 85+53⁵⁰

11²⁰ CORRECTED Mon
5 E lot 130
PW 266
Sta 89+92⁷

11²⁰ 2 1/2" Sta 83+07⁵⁰
1
0
1
1
Fence Post
Sta 81+62⁵⁰

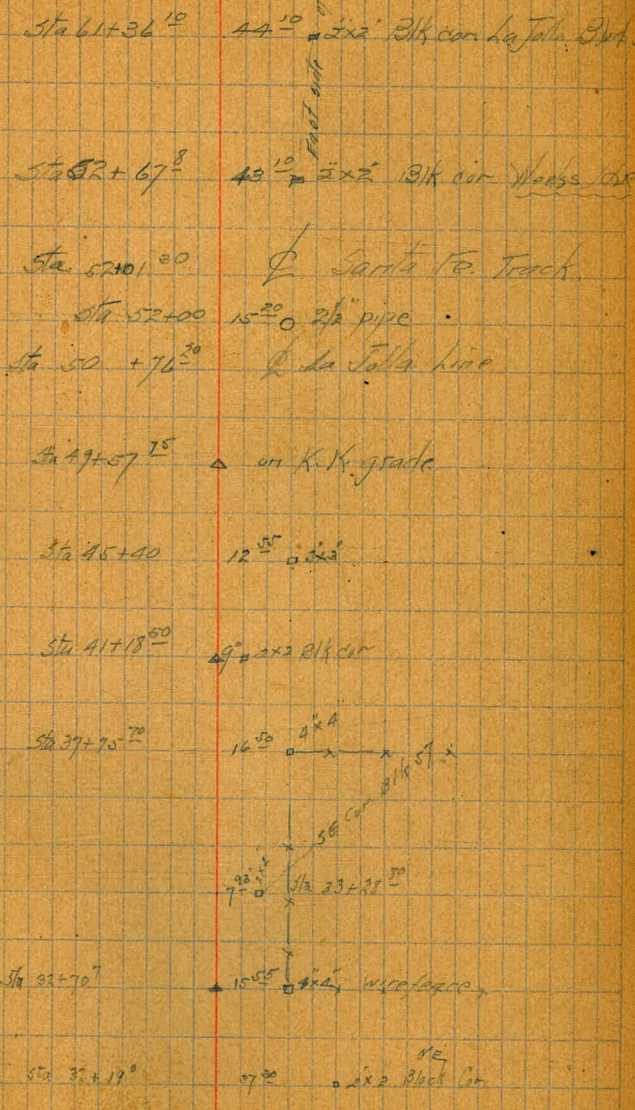
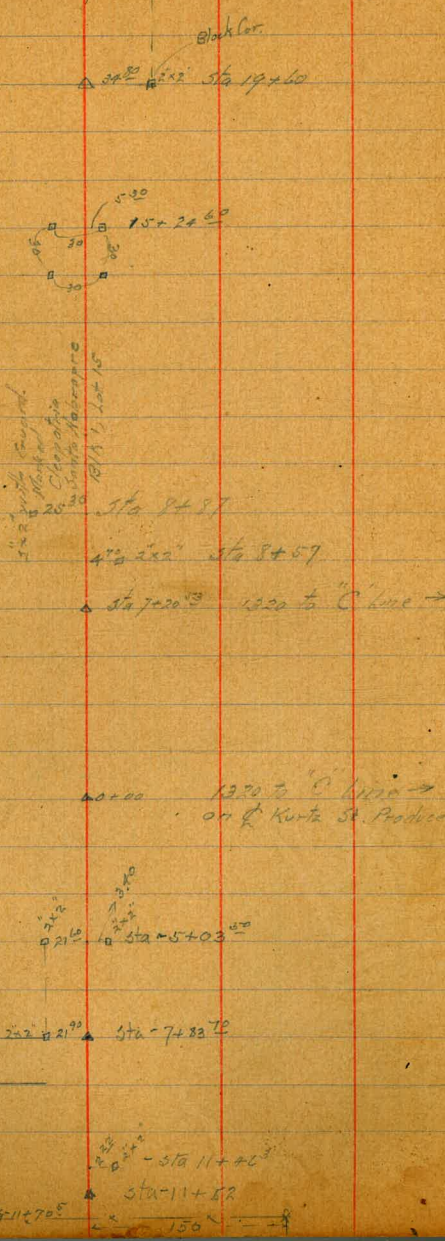
12⁸⁰ 2 1/2" Sta 78+72⁸⁰ H. Overlook

77+26⁸⁰

Sta 94+00²⁰ 11²⁵ Cancro to Mon.
1593⁵⁰ to "A" line

Survey of Rebles N of Old Town

D Line.



Sta 94+00³ 15⁷ 2x2x15" NE 125 PL 255

Sta 85+91¹⁰ ▲

Sta 74+93⁴⁰ 16° 1/4" (E. Lim. 128 PL 255)
SW 129 " 266

Sta 82+68⁸ 14° 1/4" (S. Co. 128 PL 255)

Sta 81+63⁷ 16⁴⁰ 2x2

Sta 80+26 16° 2x3 Conf. Stone

Sta 73+78³⁶ ▲

Sta 71+77⁵ 15² 2x2 old fence

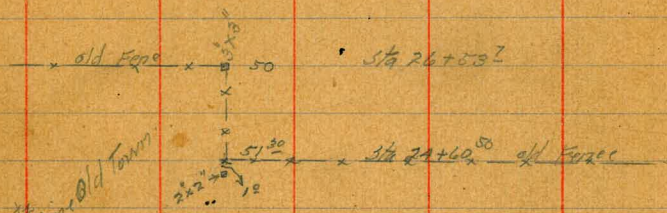
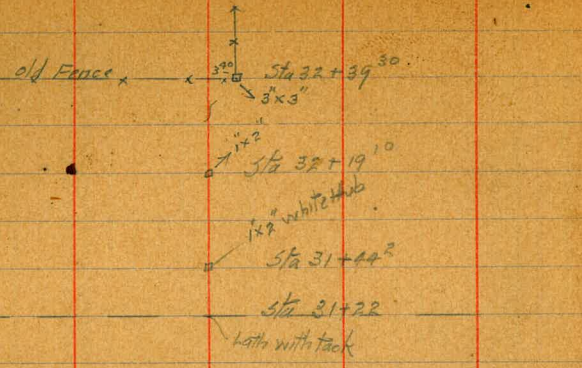
x x Sta 68+59² 14⁸ 2x2

La Jolla Boulevard

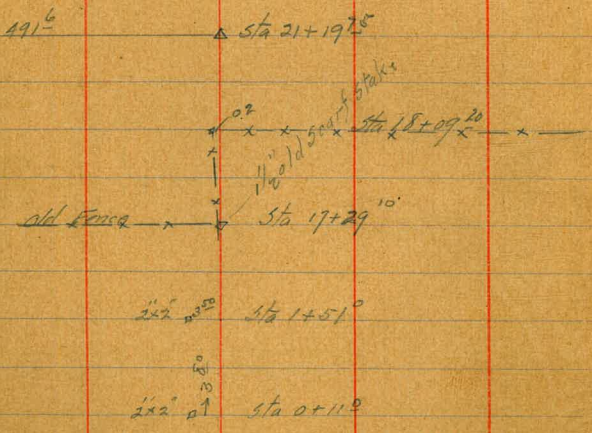
Sta 61+54⁶⁰

142 to 149
West

"E" Line

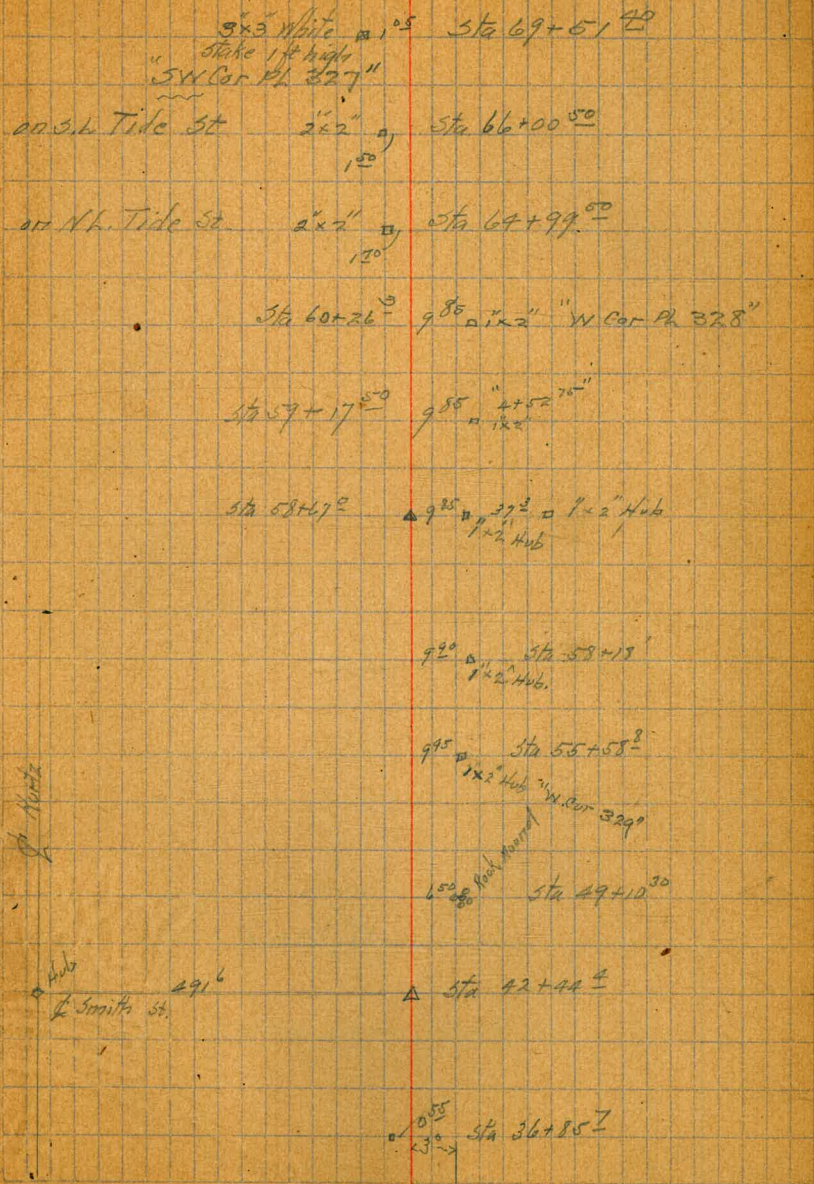


Hub to Kurtz and White Old Town



Sta -4+91⁵ of "C" Line = 0+00 "E" Line

2+00
C line



Hub to Kurtz

Hub to Smith St. 291⁶

Sta 34+00⁸⁰ 1" 2x2

W/2 Ph 245 NW Cor 2x2 = 1" Sta 34+09°

1" 2x2 = 12" Sta 39+06⁸¹

Sta 74+00

Sta 73+67⁷¹ = NW Wetherby St.

Guard "Ph 321" 2x2 = Sta 71+94⁷⁰

3/1/12
Moore
Hall

"F" line

To Sta -491' C line ← 660' Δ 0+00

2x2 22' Sta 1+87'

2' Sta 6+98'

2' Sta 7+87'

1 1/2" Hub

Sta 11+61'

2x2 25' Sta 13+17'

2.5' Sta 13+20 = Sta 11+52' "D" line

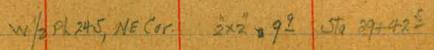
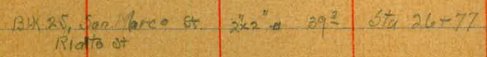
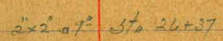
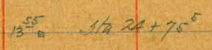
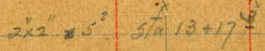
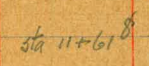
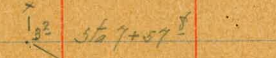
1x2 25' 16' Block Cor 2.5'

13' Sta 24+75'

2x2 27' Sta 26+37'

BX 25, San Marco St 2x2 29' Sta 26+77'
Rio to St

w/3 PL 245, NE Cor. 2x2 29' Sta 29+42'



G line

Sta 52+08'

2' 2 1/2" steel stake

Sta 50+95 8' 2x2 "236"

← 660 to E line

Sta 42+44'

933' to H line →

1 1/2" Hub

42' Sta 35+51

Sta 31+25'

26' 2x2 Hub Black Cor



Sta 21+62'

57' 2 1/2" Hub

27' Sta 21+58'

← 660 to E line

Sta 21+19' (933' to H line →)



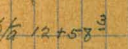
Sta 18+07'

Sta 12+58'

63' Fence Cor

← to Sta -491' C line 660'

Sta 00+00 = Sta 00+00 "F" line



Sta 76+50 d edge of Slough

Sta 73+68 8¹ 1x2"

Sta 71+95⁹ 2x2; 4x4 guard "Pl 321"

Sta 69+61³ 10² 3x3 (XVI)

12
11
10
9
8
7
6
5
4
3
2
1
with
5000
Stake

47² Sta 69+50

Sta 65+35² 2x2 tub, 4x4 guard "Pl 321"

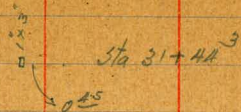
Sta 59+78⁵ 9⁵ 2x2 tub on N.W. side St

Sta 55+04² 17² 1x2 White Stake

Survey of Pecos N. of Old Town

"H" Line

West lawn



2x2 Hub @ 25.75 Sta 31+24.6

Sta 31+90 2x2 Hub

2x2 Hub
cap tank

933° to "G" Line Sta 21+19.8

Sta 19+75

Sta 18+10.5

Sta 16+86.5

20.65 30.35 end of Curve of Road

Sta 12+63

Sta 4+99

0+00
125° to "G" line Sta 0+00

Sta 74+45.0

25

Sta 71+88.0 10.8 2x2 3', 2' high "VII"

2" Linear 2' high 482 Sta 69+53.6

Sta 67+00

Sta 60+28.2 9.4 2x2 Hub "236"

Sta 58+68.0 9.3 4x5' 1ft high "226"

Sta 56+69.2 9.2 1x3' white Stake

Sta 53+58.10 8.65 2x2 Hub on Sh. Tide St.

Sta 52+57.2 8.5 2x2 Hub on NA Tide St.

Sta 50+96.0

Sta 50+95 8.5 2x2 Scarf 4x4 Pole

933° to "G" line Sta 42+45.25

Sta 29+43⁸ 7" 2x2 Hub w/2 Pl 245, SE Cor

Sta 24+77³ 6²⁵ 2x2 Hub Pl 244 SW Cor
Blk cor Luma Plaza

Blk Cor.
{ Newark St }
{ Olive St }

2x2 Hub 119² Sta 21+88²

Sta 21+57¹ 1 1/2" 1 1/2" 2x2
Hub
Tie track

Sta 15+43³ 21" 2x2 Blk Cor Luma Plaza

Sta 14+99² 34" New fence

Sta 12+00 on Dyke

2x2 37" 6x6 flush with ground

Sta 0+00 = 0+00 H. Line

Sta 74+67 70" 4" x 4" 3 high

Sta 70+64 15" 10" lath 3 high

Sta 64+69 29" 4x4 scarf Stake 18 high

Sta 61+17⁵ 12" 6" lath

Sta 57+63² 10" 4" x 4" 1 high (SE Cor Aug 4 1913)

Sta 46+99² 10" lath

old 11x4 12" Sta 43+85²

Sta 41+00

4 Newark at 2x2 16" 8³⁰ 2x2 (Get Station)
Pittsburgh "

Sta 36+09⁹ 8" 2x2 w/2 Pl 245 SW Cor

J line

27

Sta 28+00

Sta 22+88²

Sta 16+26⁵

Sta 15+40

Sta 13+12

Sta 11+60⁵⁰

Sta 10+00

Sta 3+60 (about)

Sta 2+10⁶⁰

Sta 2+12²⁰

0+00

55³⁰ 2x2 bub, 3 white scarf stake

2⁴⁰ 1x2" Pueblo Cor.

2²⁰ 2x2" bub

2⁴⁰ 3x3 burnt stake 18" high

Old Fence

3²⁰ 1/2 Pipe 1ft high

2²⁰ 2x2 1/2 scarf stake 1ft high

13 20 to Sta 21+19⁵⁰ H.L.

Edge of Chert \triangleright Sta 90+20

\triangle Sta 78+90

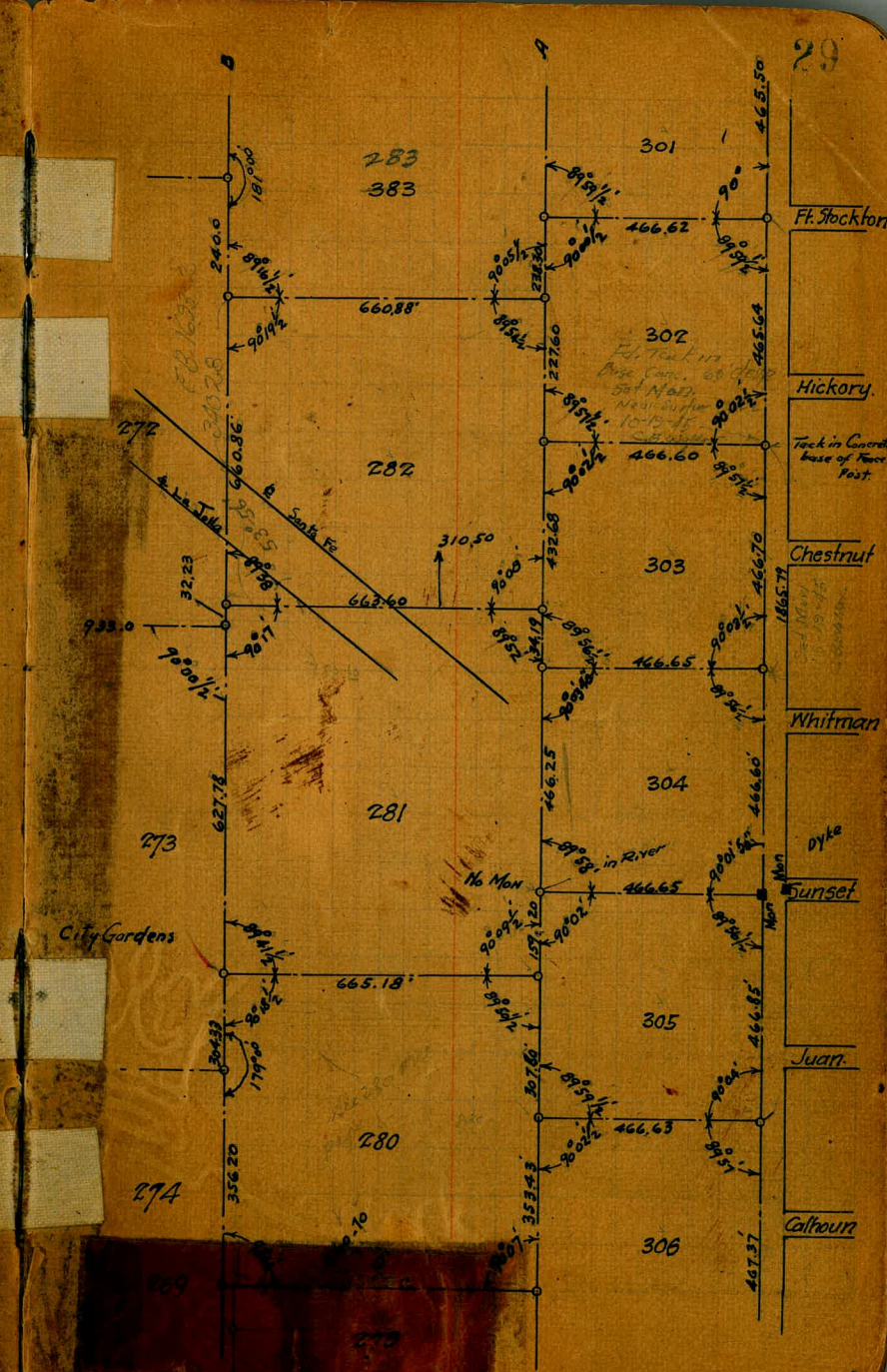
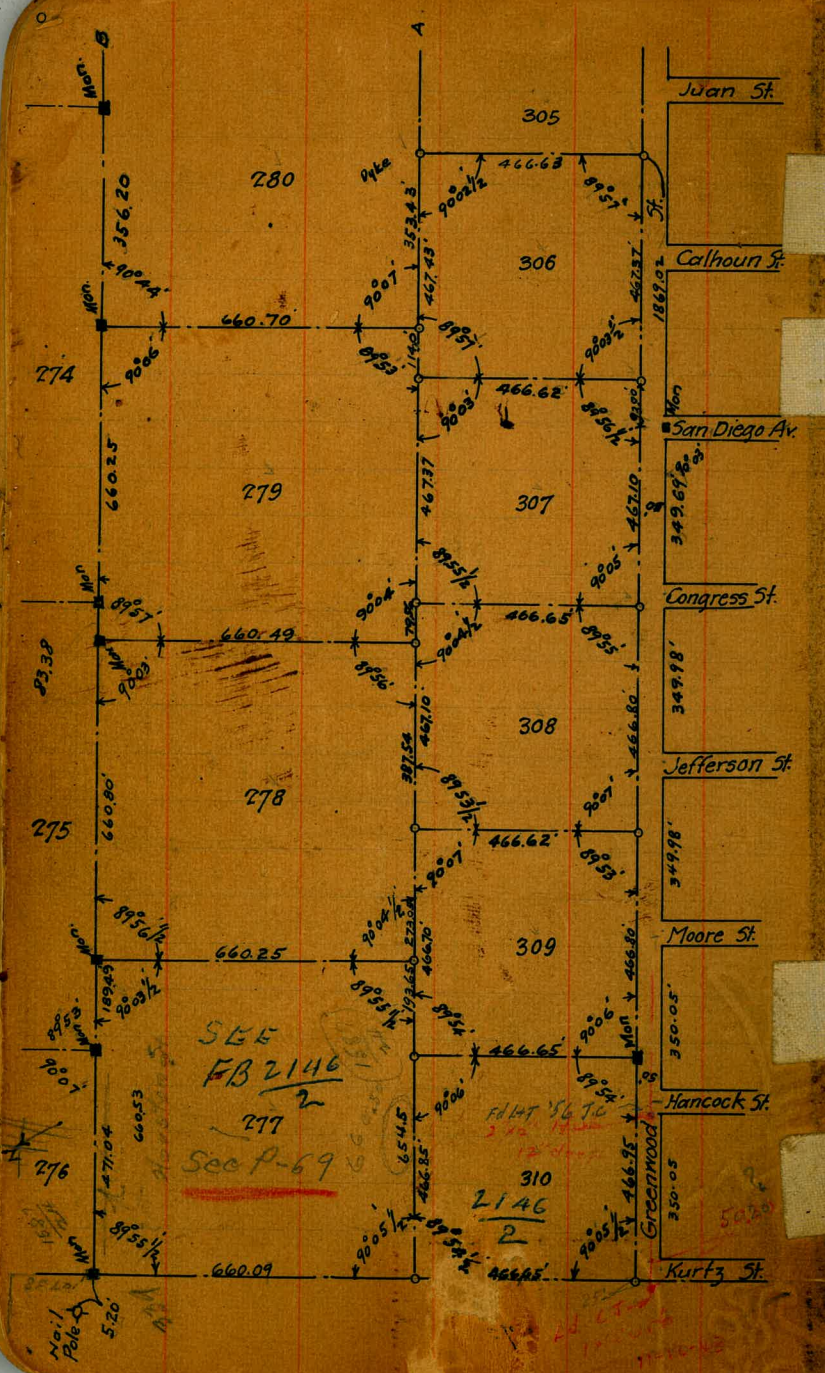
K Line

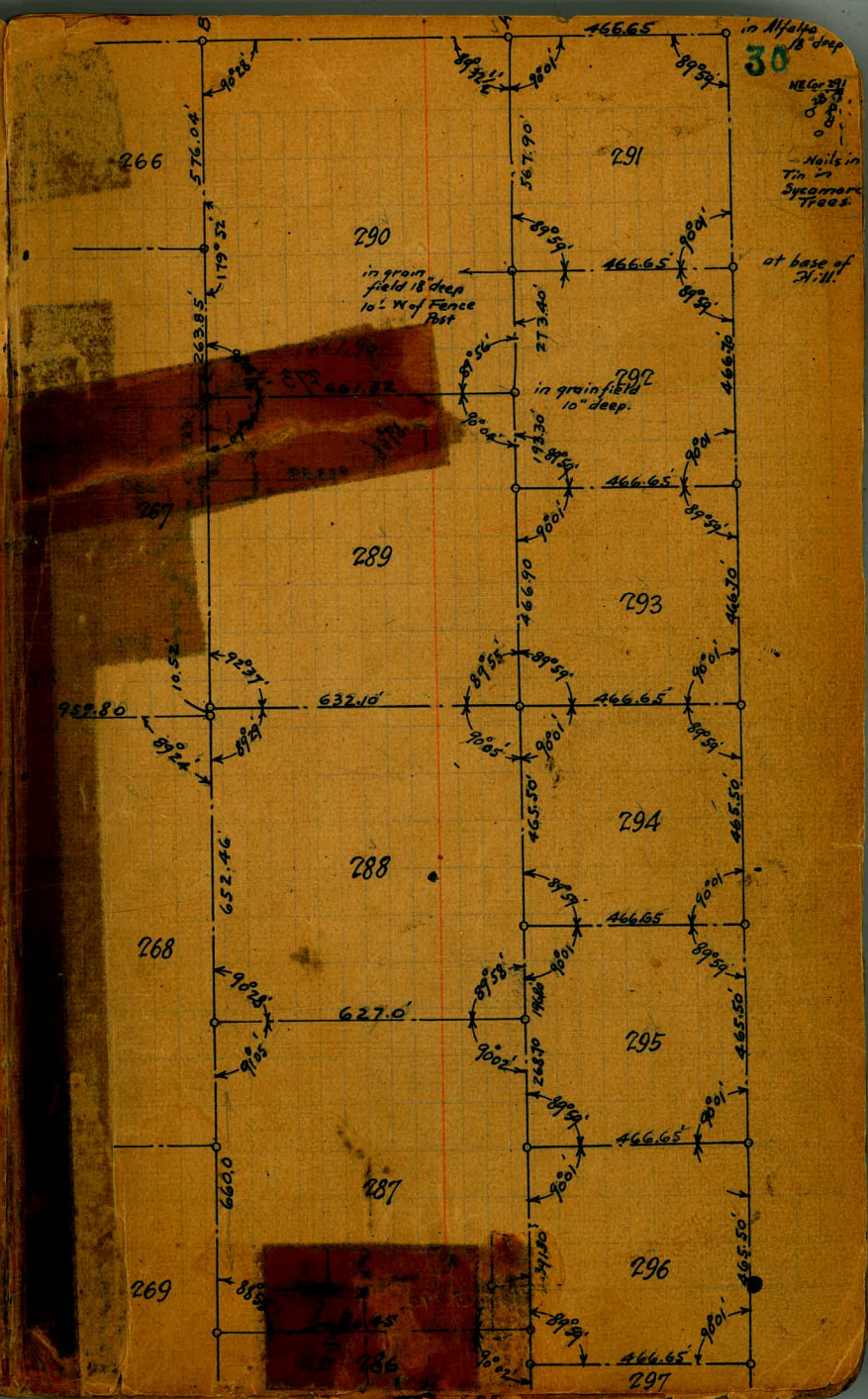
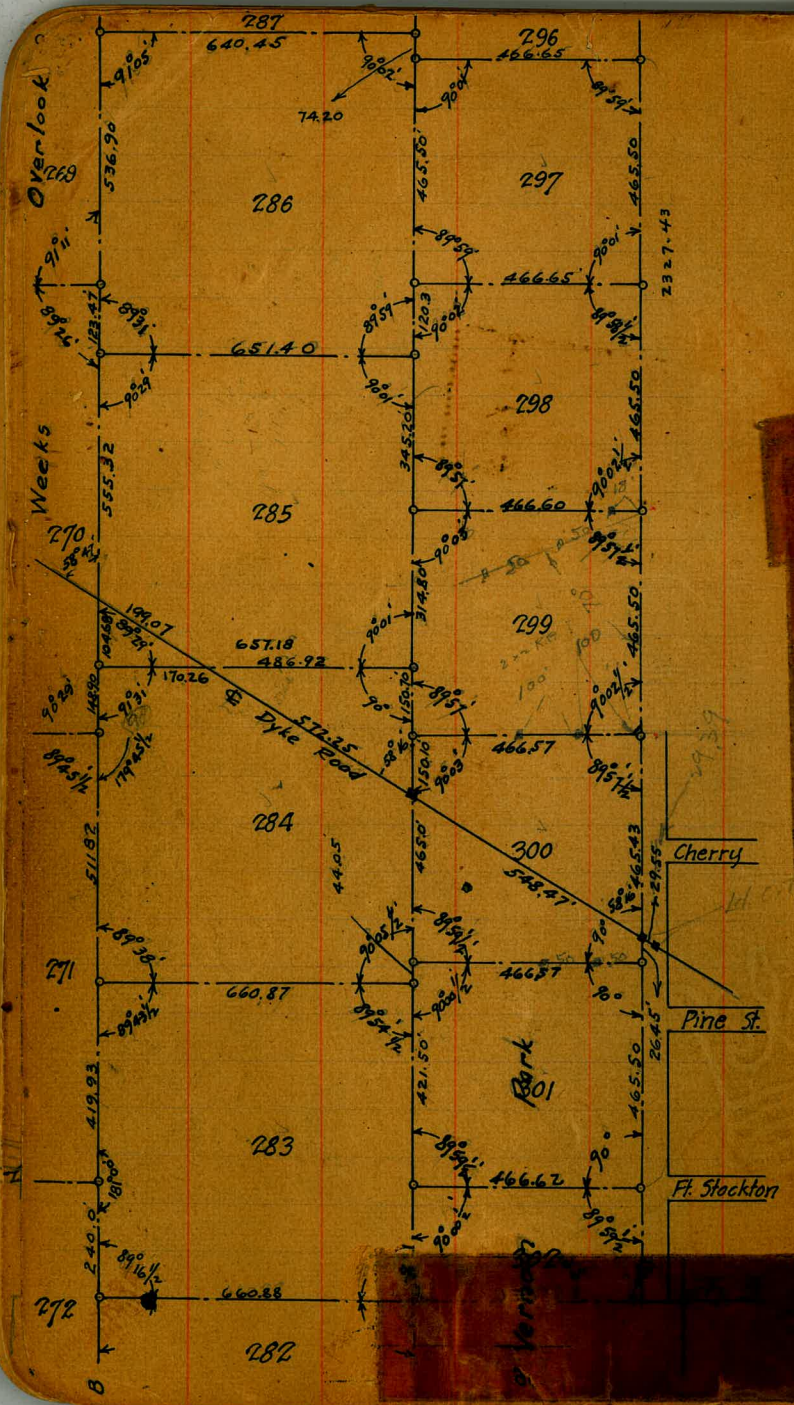
Sta 42+40⁰ Δ Sta 37+76⁵⁰ 9° \square 3x3, 18" high marked III2" angle Iron \square 49⁵⁰ Sta 37+41⁰
3x3 guard post
Marked IISta 29+50 Δ 6⁵⁰ \square 1x2 Hub -Sta 24+28⁴⁰ 5³⁰ \square Non -Sta 22+19⁵⁰ 5³⁵ \square spike on Sh Tide St. Δ Sta 22+19⁵⁰Sta 21+18³⁰ 5² \square Spike on Wk Tide St.Sta 10+09⁰ 4⁵⁵← 1300 to 21+19⁵⁰ Δ 0+00 "K" Line
"H" Line = 0+00 "J" "Sta 34+09⁵⁰2x2
Black Cor \square 3⁵⁵56⁶⁵ \square Sta 33+57² Δ 4x2 Hub
Blk Cor26²⁵

30

2x2 Hub

Sta 31+43⁴Sta 29+61⁵56° \square 6x6 with spike in it

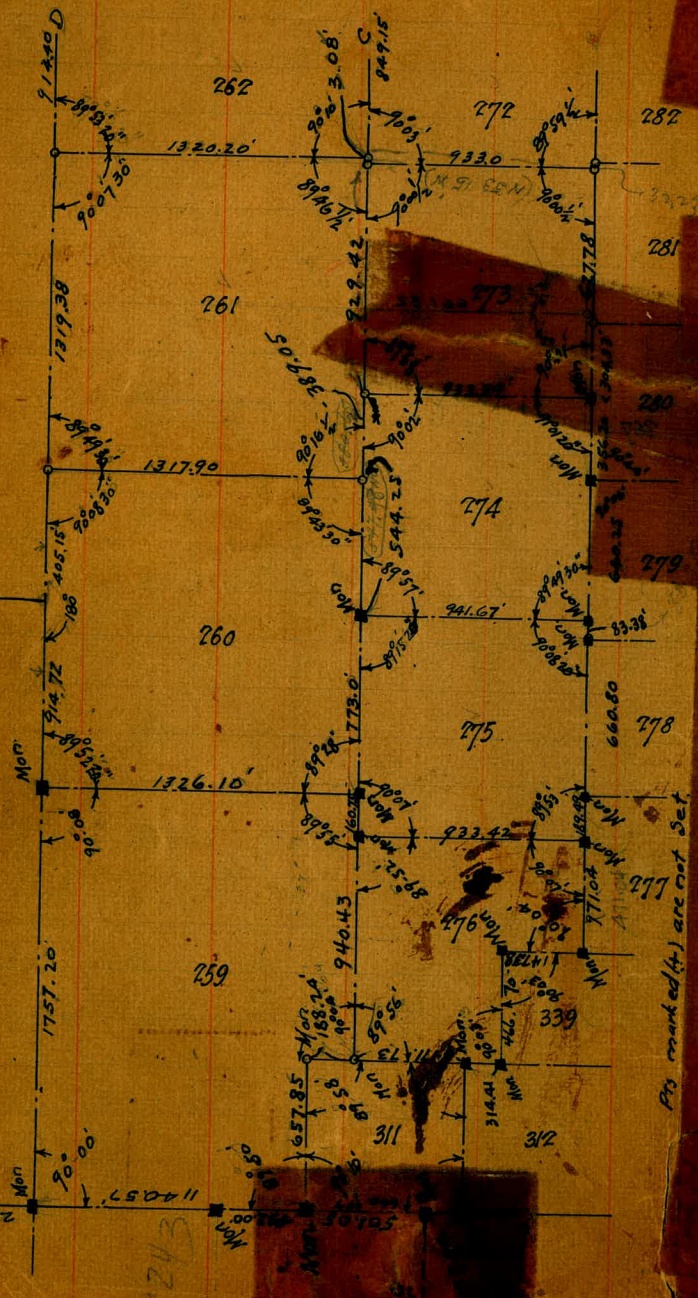




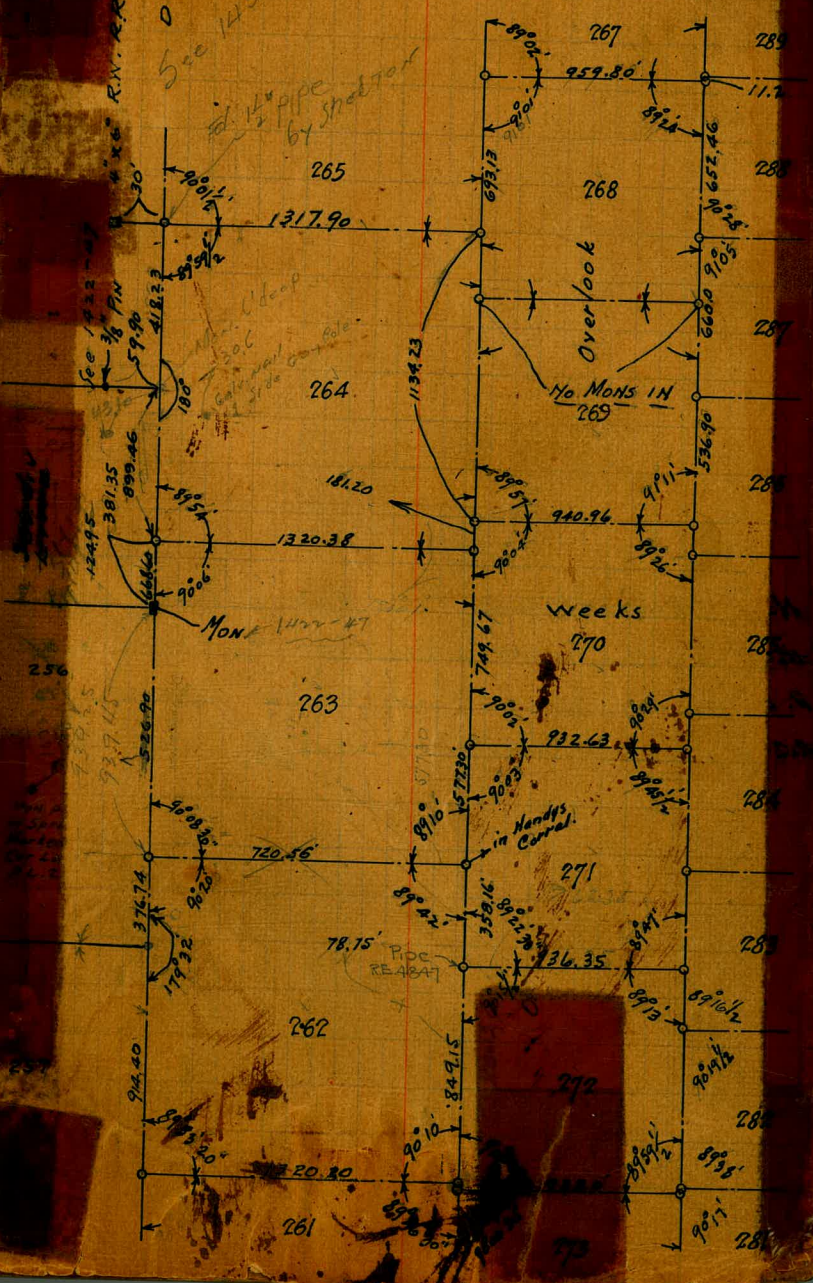
Overlook

Roll 412C

Page 52



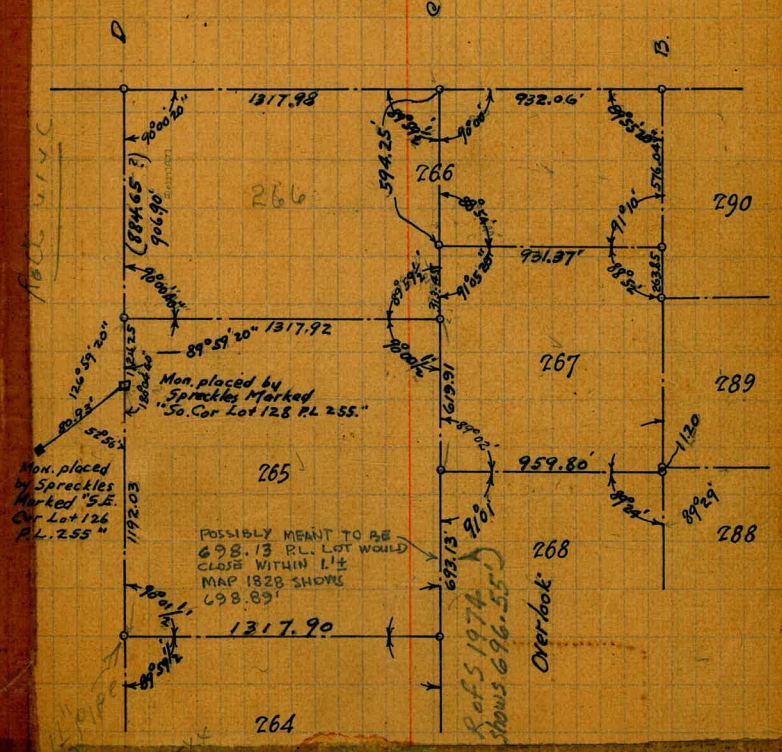
See 12450-44

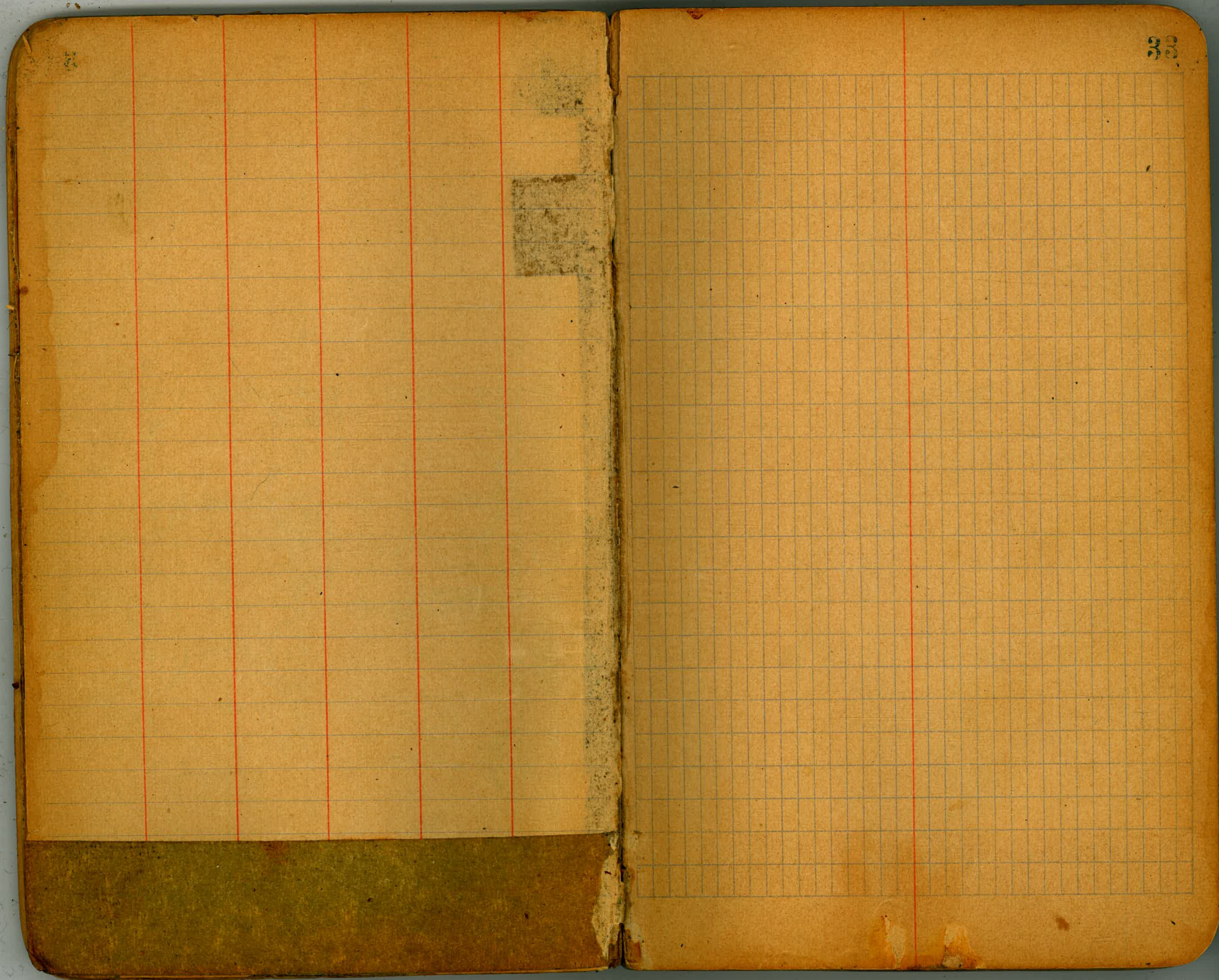


1902
313 20
9.07 64
9.22 25

11300
13124.20
14220

Note: On Jan. 23, 1940 Chas Moore, Chief Party says
that Con. Mon. were placed at the Corners of
P.L. as shown on Pages 29-32 except in
a few cases noted as "No mon. in."
A.T.H.



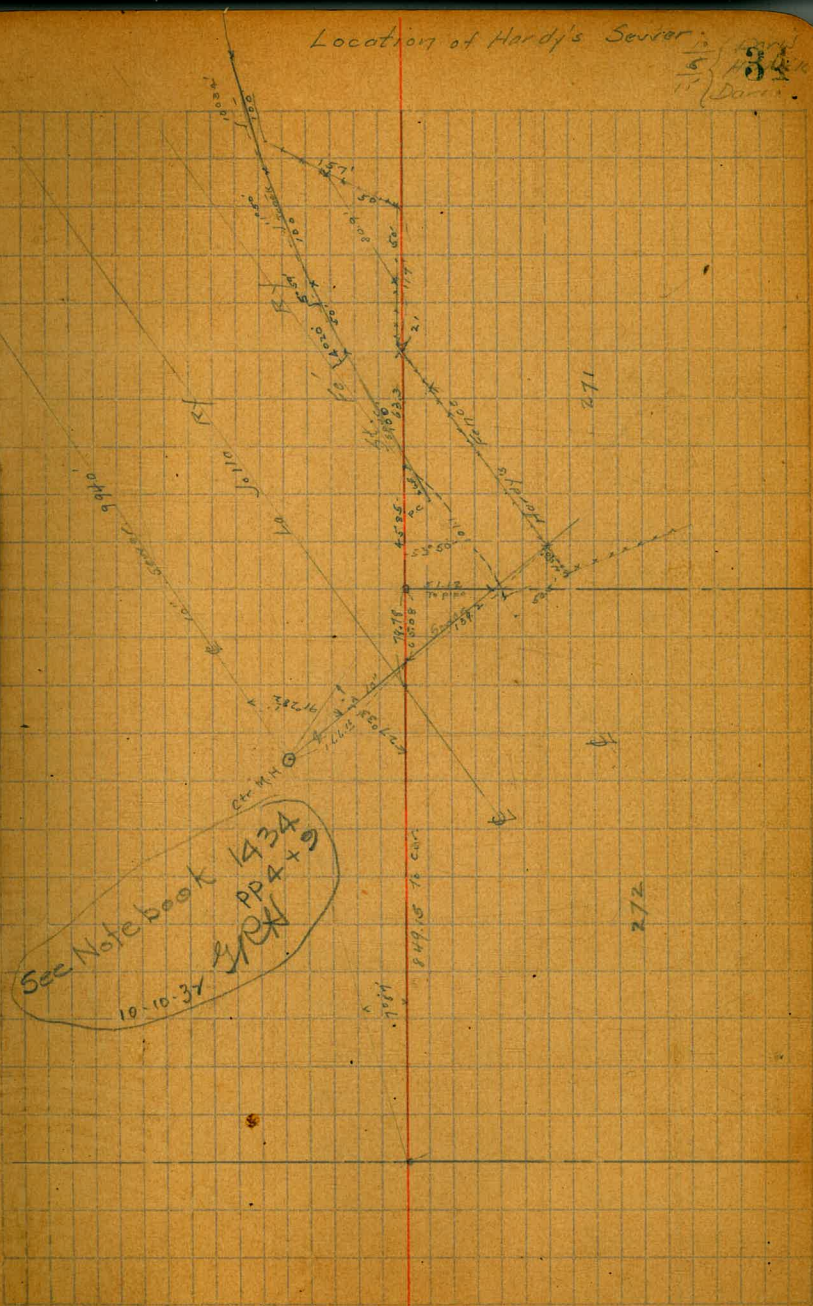


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Location of Hardy's Sewer

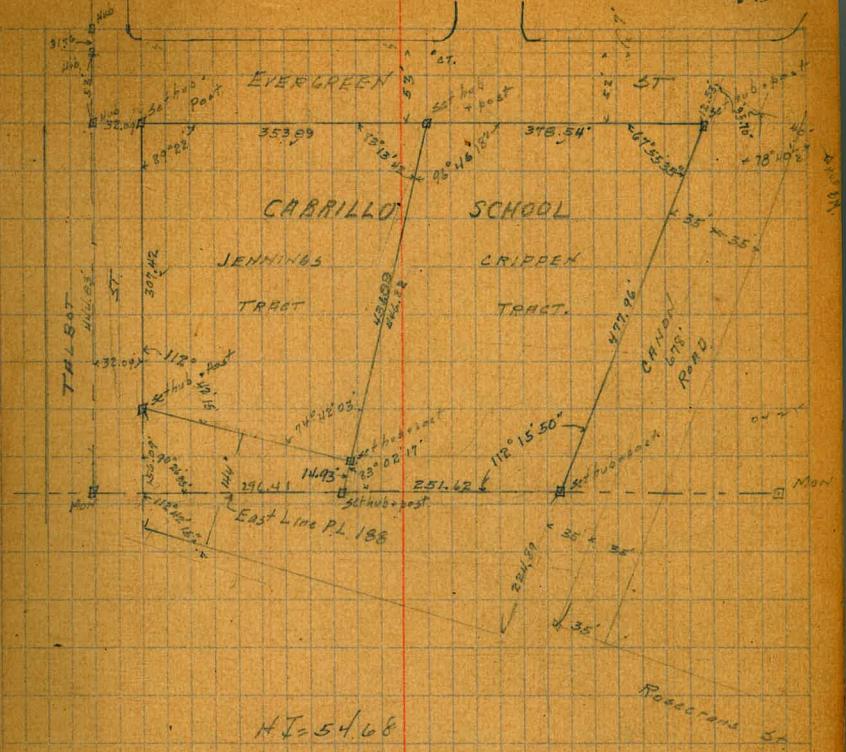
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See Notebook 143A
 pp 4 + 9
 10-10-37
 HPH



Survey & Cross Section of
Tracts shown on Opposite Page.

	12.10	54.68	41.78	41.78
N.W. cor Crippens = Int. Evergreen - Capon	9.35	43.33		Avs BM Tie out for Capon Rd. on 406
E.L. Evergreen 700 N. of Talbot.	8.4	46.3		
✓ ✓ ✓ 650 - - -	6.9	47.8		
✓ ✓ ✓ 600 - - -	5.6	49.1		
8 E ₁ ✓ ✓ 600 - - -	9.9	44.8		
11 ✓ ✓ ✓ 550 - - -	10.9	43.8		
1 ✓ ✓ ✓ 550 - - -	4.1	50.6		
E.L. ✓ ✓ 550 - - -	4.0	50.7		
✓ ✓ ✓ 500 - - -	2.7	52.0		
2 E ₁ ✓ ✓ 500 - - -	2.8	51.9		
16 ✓ ✓ ✓ 500 - - -	11.3	43.4		
20 ✓ ✓ ✓ 450 - - -	12.1	42.6		
3 ✓ ✓ ✓ 450 - - -	2.1	52.6		
E.L. ✓ ✓ 450 - - -	1.7	53.0		
✓ ✓ ✓ 400 - - -	1.3	53.4		
5 E ₁ ✓ ✓ 400 - - -	1.6	53.1		
21 ✓ ✓ ✓ 400 - - -	11.5	43.2		
33 ✓ ✓ ✓ 400 - - -	13.9	40.8		
30 ✓ ✓ ✓ 350 - - -	13.7	41.0		
18 ✓ ✓ ✓ 350 - - -	11.7	43.0		
2 ✓ ✓ ✓ 350 - - -	2.0	52.7		
E.L. Evergreen 350 - - -	1.1	53.6		
✓ ✓ ✓ 325 ✓ ✓ ✓	1.5	53.2		
3 E ₁ ✓ ✓ ✓ 325 - - -	1.5	53.2		



HI = 54.68

E.L. Evergreen + 300 N. of Talbot	1.9	52.8
16 E ₁ ✓ ✓ ✓ 300 - - -	12.3	42.4
28 ✓ ✓ ✓ 300 - - -	14.2	40.5
16 ✓ ✓ ✓ 250 - - -	12.9	41.7
1 ✓ ✓ ✓ 250 - - -	2.9	51.8
E.L. ✓ ✓ 250 - - -	2.6	53.1
✓ ✓ ✓ 200 - - -	3.0	51.9
12 E ₁ ✓ ✓ ✓ 200 - - -	11.0	43.7
10 ✓ ✓ ✓ 150 - - -	8.8	45.9
✓ ✓ ✓ 150 ✓ ✓ ✓	3.1	51.3

EL Evergreen	100' N. of Talbot	37	51.0
6' E. of ✓	100' ✓	69	47.8
5' ✓	50' ✓	66	48.1
EL ✓	50' ✓	40	50.7
✓	10' ✓	49	49.8
10' E. of ✓	10' ✓	68	47.9
E.L. ✓	N.L. ✓	51	49.6
10' E. of ✓	N.L. ✓	62	48.5

50' E. of EL Evergreen.

N.L. Talbot		8.6	46.1	
5' N. of ✓		9.3	45.6	
50' ✓		9.6	45.1	
100' N		9.9	44.8	
150' ✓		11.4	43.9	
200' ✓		13.3	41.4	
T.P.	2.86	44.54	13.00	41.69
250' N.		5.0	39.5	
300' ✓		5.5	39.0	
350' ✓		5.6	38.9	
400' ✓		5.7	38.8	
450' ✓		5.3	39.2	
500' ✓		4.7	39.8	
550' ✓		4.3	40.2	
600' ✓		3.2	41.3	
650' ✓		2.2	42.3	
700' ✓		2.5	42.0	

720' N.		3.3	41.2
	100' E. of Evergreen		
700' N. of Talbot		6.2	38.3
650' ✓		5.8	38.7
600' ✓		7.1	37.6
550' ✓		7.9	36.6
500' ✓		8.2	36.3
450' ✓		8.5	36.0
400' ✓		9.2	35.3
350' ✓		9.4	35.1
325' ✓		9.0	35.5
300' ✓		8.1	36.4
250' ✓		7.1	37.4
200' ✓		5.2	39.2
150' ✓		3.9	40.6
100' ✓		3.0	41.5
50' ✓		2.5	42.0
10' ✓		2.1	42.4
N.L. Talbot		1.4	43.1
	150' E. of Evergreen		
N.L. Talbot		4.4	40.1
50' N. of ✓		5.9	38.6
100' ✓		5.9	38.6
150' ✓		6.2	38.3
200' ✓		7.6	36.9

44.54
150' E. of Evergreen (cont.)

350'	N. of Talbot.	9.1	35.4
300'	- - -	10.1	34.4
350'	- - -	11.1	33.4
400'	- - -	12.1	32.4
450'	- - -	11.7	32.8
500'	- - -	11.4	33.1
550'	- - -	11.4	33.1
600'	- - -	10.5	34.0
650'	- - -	9.1	35.4
675'	- - -	8.3	36.2

200' E. of Evergreen.

650'	✓ ✓ ✓	10.6	33.9
600'	- ✓ ✓	12.3	32.2
550'	- - ✓	13.6	30.9
500'	✓ ✓ ✓	14.0	30.5
450'	- - -	14.2	30.3
400'	✓ - -	13.6	30.9
350'	- - -	12.8	31.7
300'	✓ - ✓	12.3	32.2
250'	- ✓ ✓	11.0	33.5
200'	- - -	9.4	35.1
150'	✓ - -	9.0	35.5
100'	✓ - -	8.6	35.9
50'	✓ - -	8.3	36.2
	✓ ✓ ✓	8.0	36.5

44.54
250' E. of Evergreen

37

	H. L. Talbot.	10.5	34.0
50'	N. of ✓	10.8	33.7
100'	- - ✓	11.1	33.4
150'	- - ✓	11.2	33.3
200'	- - ✓	12.4	32.1
250'	- - ✓	13.1	31.4
	T.P. 3.01 34.72	12.83	31.71
300'	N. of Talbot.	4.1	30.6
350'	✓ - -	4.7	30.0
400'	- - -	5.3	29.4
450'	- - ✓	5.9	28.8
500'	- - -	5.6	29.1
550'	- - ✓	4.5	30.2
600'	- - -	3.3	31.4
625'	- - -	2.5	32.2

300' E. of Evergreen

610'	- - ✓	3.9	30.8
600'	- - -	4.3	30.4
550'	- - ✓	5.8	28.9
500'	✓ - -	6.6	28.1
450'	- - -	7.2	27.5
400'	- - -	7.0	27.7
350'	- - -	6.5	28.2
300'	- ✓ ✓	5.5	29.2
250'	✓ ✓ ✓	5.1	29.6

34.72
300' E of Evergreen (cont.)

200' N of Talbot	4.6	30.1
150' - - -	4.2	30.5
100' - - -	4.0	30.7
50' - - -	3.7	31.0
27' E of Above	4.9	29.8
N.L. of Talbot, 300' E. of Ever.	3.3	31.6
S. E. cor. Jennings Tract.	3.6	31.1

350' E of Evergreen

100' N. of Talbot.	5.7	29.0
150' - - -	5.5	29.2
(25' E. of Above)	6.9	27.8
200' N. of Talbot 350' E	6.5	28.2
35' E of Above	8.0	26.7 = fence
250' N. of Talbot 350' E	7.0	27.7
27' E of Above	7.9	26.8 = W side barn
300' N. of Talbot 350' E	7.3	27.6
350' - - -	8.1	26.6
400' - - -	8.5	26.2
450' - - -	8.3	26.6
500' - - -	7.8	26.9
550' - - -	5.9	28.8
590' - - -	5.9	28.6

400' E. of Evergreen

570' N. of Talbot	7.3	27.6
550' - - -	7.7	27.0

87

500' N. of Talbot.	8.4	26.3
450' - - -	9.2	25.5
400' - - -	9.7	25.0
350' - - -	9.5	25.2
300' - - -	9.1	25.6
263.5' - - - (this pt is)	9.3	25.4 = N side barn

(15.5' E. of NW cor. of above 18' x 34' with longest dia. N+S.)

250' N. of Talbot	8.8	25.9
200' 15' E. of Above	8.7	26.0
	8.7	26.0

445' E. of Evergreen

250' N. of Talbot.	10.3	24.6
300' - - -	10.2	24.5
350' - - -	10.6	24.1
400' - - -	10.3	24.6
450' - - -	9.6	25.1
500' - - -	9.2	25.5
550' - - -	7.5	26.2
BM 178 28.12	8.38	26.34 hub NE Crisp
	7.45	20.67 BP 5th Canon + Rosecrans

CROSS SECTION OF PORTION OF
 FILL AROUND UNIVERSITY HALLS
 Reservoir
 IDAHO ST

11/12/30
 Lawrence
 Miller
 Shaw

	887	378.83	369.96	SE Idaho 9 Polk
629' S. of HOWARD				
cb/line	8.7	70.13		amb Grade
6' W. of W. Co. Idaho	8.6	70.2		
10' " " " "	7.3	71.5		
623' S. of HOWARD				
W. Co.	8.75	70.08		
6' W. of " "	8.1	70.7		
8' " " " "	7.3	71.5		
600' S.				
W. Co.	8.7	70.13	320.0	
6' W. of " "	7.7	71.1		
8' " " " "	5.0	73.8		
10' " " " "	3.5	75.3		
550' S.				
W. Co.	8.5	70.3	320.25	
6' W. of " "	7.6	71.2		
7' " " " "	6.4	72.4		
10' " " " "	4.2	74.6		
500' S.				
W. Co.	8.2	70.6	320.5	
6' W. of " "	7.5	71.3		
7.5' " " " "	5.3	73.5		
10' " " " "	3.4	75.4		

	81	70.7	320.25
450' S			
W. Co. Idaho	7.2	71.6	
7' W. of " "	5.8	73.0	
8' " " " "	4.1	74.7	
400' S			
W. Co.	7.7	71.1	321.0
7.0' W. of " "	6.9	71.9	
8' " " " "	5.4	73.4	
10' " " " "	4.1	74.2	
350' S			
W. Co.	7.5	71.3	321.25
3' W. of " "	7.4	71.4	
7' " " " "	6.3	72.5	
8' " " " "	4.7	74.1	
10' " " " "	3.7	75.2	
300' S			
W. Co.	7.3	71.5	321.5
7' W. of " "	6.5	72.3	
8' " " " "	5.0	73.8	
10' " " " "	3.7	75.1	
250' S			
W. Co.	7.0	71.8	321.25
7' W. of " "	6.1	72.7	
8' " " " "	4.9	73.9	
10' " " " "	3.7	75.1	

378.83

300' S. of HOWARD.

Web	6.8	372.0	372.0
6.5' W. of ✓	5.9	72.9	
8' ✓ ✓ ✓	4.1	74.7	
10' ✓ ✓ ✓	3.0	75.8	

150' S

Web	6.5	72.3	372.21
7' W. of ✓	5.7	73.1	
8' ✓ ✓ ✓	4.1	74.7	
10' ✓ ✓ ✓	3.4	75.4	

100' S

Web	6.3	72.5	372.50
6.5' W. of ✓	5.5	73.3	
8' ✓ ✓ ✓	4.1	74.7	
10' ✓ ✓ ✓	3.2	75.6	

50' S

Web	6.1	72.7	372.25
7' W. of Web	5.5	73.3	
8' ✓ ✓ ✓	3.9	74.9	
10' ✓ ✓ ✓	3.3	75.5	

S. L. HOWARD.

Web	5.8	73.0	373.00
8.5' W. of ✓	5.2	73.6	
10' ✓ ✓ ✓	3.9	74.9	

60

20' N. of S. L. HOWARD

8.5' W. of Angle of Cb,	5.3	73.5	373.00
10' - - -	3.9	74.9	
23' N			
W. Cb on Angle	5.8	73.0	373.00
8.5' W. of - - -	5.8	73.0	
10' - - - - -	5.6	73.2	

11/20 G
 section of portion of Mill
 around Univ. Heights reservoir
 Oregon St side 3660 on SE Oregon
 & Polk

OREGON 41

10.80 376.82

22' N. of S.L. Howard

Ecb Oregon Angling 2.8 74.0

10' E of - - 2.6 74.2

18' N. of S.L. Howard

Ecb 2.6 74.0

7' E of - - 2.5 74.3

10' - - - 1.7 75.1

S.L. Howard

Ecb 2.8 74.0 374.0

8' E of - - 2.7 74.1

10' - - - 2.1 74.7

50' S. of Howard

Ecb. 3.3 73.5 373.4

8' E of - - 3.1 73.7

10' - - - 1.2 75.6

100' S

Ecb 3.9 72.9 372.7

7' E of - - 3.6 73.2

10' - - - 1.1 75.7

150' S

Ecb. 4.5 72.3 372.25

6' E of - - 4.1 72.7

8' - - - 1.6 75.2

10' - - - 0.5 76.3

400' S

Ecb 5.1 71.7 371.67

6' E. of - - 4.8 72.0

7.5' - - - 3.0 73.8

10' - - - 1.3 75.5

250' S

Ecb 5.8 71.0 371.08

6' E. of - - 5.1 71.7

8.5' - - - 2.4 74.4

10' - - - 1.2 75.6

300' S

Ecb 6.3 70.7 370.50

5' E. of - - 5.7 71.3

8' - - - 2.2 74.6

10' - - - 1.0 75.8

350' S

Ecb 6.8 70.0 369.92

5' E of - - 6.2 70.6

9' - - - 2.6 74.2

10' - - - 1.9 74.9

400' S

Ecb 7.4 69.4 369.33

6' E. of - - 6.8 70.0

8' - - - 3.5 73.3

10' - - - 2.2 74.6

376.82

450' S

	Ecb.	8.0	68.8	368.75
6' E. of	- -	7.0	69.5	
9' - -	- -	5.5	73.3	
10' - -	- -	3.0	73.8	

500' S

	Ecb.	8.6	68.2	368.17
5' E. of	- -	7.9	68.9	
8' - -	- -	4.3	72.5	
10' - -	- -	3.1	73.7	

550' S

	Ecb.	9.2	67.6	367.58
4' E. of	- -	8.2	68.6	
7' - -	- -	6.3	70.5	
10' - -	- -	3.0	73.8	

600' S

	Ecb.	9.5	67.0	367.00
4' E. of	- -	9.1	67.7	
5' - -	- -	7.6	69.2	
9' - -	- -	4.7	72.1	
10' - -	- -	3.2	73.6	

610' S

	Ecb.	9.5	67.0	367.00
3' E. of	- -	9.2	67.3	
5' - -	- -	8.3	68.5	
10' - -	- -	3.7	73.1	

OREGON 42

623' S

	Ecb line	10.0	66.8	367.0
6' E. of	- -	9.6	67.2	
10' - -	- -	9.3	67.5	

628' S

	Ecb	10.2	66.6	367.0
10' E. of E. Cb		10.5	66.3	

Gregory Levels for Steps
Univ. Heights
Reservoir

N.E. Cor.

Q = 2' 5.0 x 3.2 Howard St prod.

10.91 383.92 373.01

Prob Idaho

10.8 373.12

6' W. 10.6 373.3

8' W. 10.1 373.5

17' W. 4.9 379.0

21' W. 3.4 370.5

24' W. 3.2 370.7

27.5 = Edge res. 3.1 370.8

Top of Water Table +0.3 384.20

S.E. Cor.

Q = 2' N. of N.L. Polk St prod.

11.69 381.65 369.96

Prob Idaho

11.56 370.09

4' W. 10.9 370.8

6' W. 10.9 370.5

9' W. 7.9 374.4

14' W. 2.1 379.5

21' W. 0.8 380.9

27.5 W = edge res. 0.5 381.2

S.W. Cor.

Q = 2' N. of N.L. Polk
12.79 378.51 366.02
Feb Oregon 11.65 367.15

3' E 11.3 367.5

5' E 9.6 369.2

8' E 7.9 370.9

9.5 E 5.0 373.8

T.P. 12.99 385.96 4.94 373.87

19' E 5.5 370.5

23' E 5.0 371.0

26.5 E = edge res. 5.1 370.8

N.W. Cor.

Q = 2' 5.0 x 3.2 Howard.

22.1 383.98 381.77

Feb Oregon 9.99 373.99

8' E 9.9 374.1

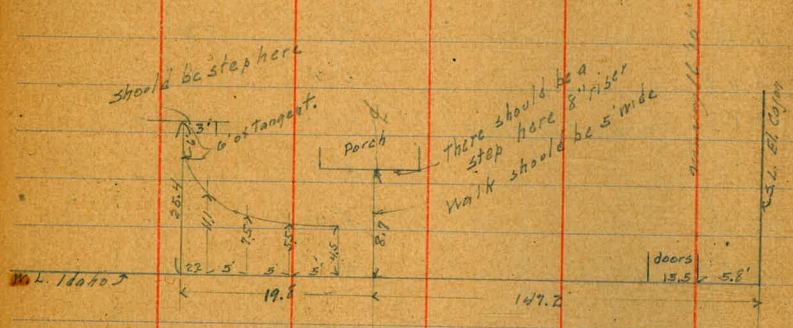
11' E 8.8 375.2

17' E 4.1 379.9

22' E 2.9 381.1

26.5 E = edge res. 3.0 381.0

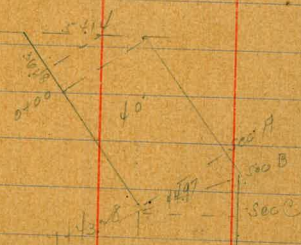
11/18/30 layout Data for sidewalk etc
at Univ Heights
Reservoir.



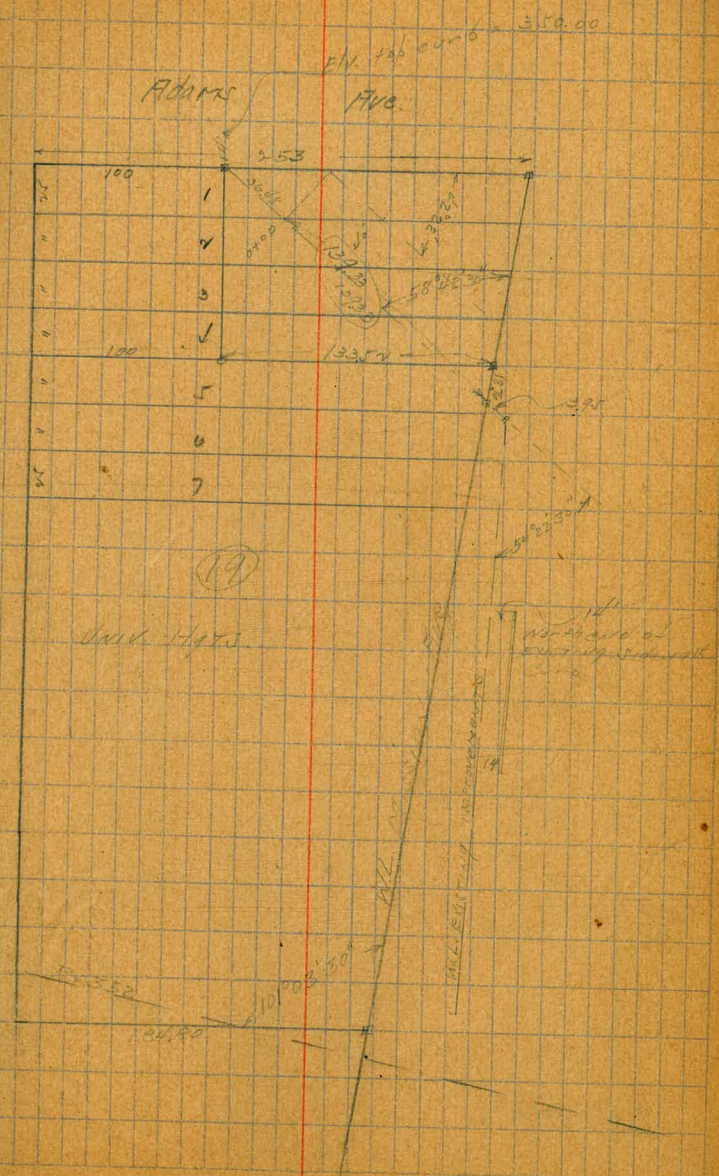
Survey for showing
 815 19 Value Hgt. 40 m
 SW 265 353 7.1 351.07
 0400-30.45 = SL Adams

N	4.1	349.6
C	5.7	348.0
E	10.1	343.6
0400-15.2		
N	7.3	346.4
C	5.7	349.0
0100		
N	7.3	346.4
C	7.7	346.0
E = SL Adams	10.1	343.6

SL ADAMS



ADAMS
 100
 100



ADAMS

19

14

3537W

0+50

-10	12.8	340.9
E	11.5	344.7
C	8.5	344.9
W	8.0	345.7

1+00

W	8.1	345.6
E	10.1	343.6
C	11.4	344.3

+10

T.P.

1443.28

346.55

13.6

340.1

17.51 = 341.1

-10	12.4	334.7
-----	------	-------

E	7.1	338.7
---	-----	-------

C	5.0	341.6
---	-----	-------

W	1.7	344.9
---	-----	-------

Sec B

W	1.7	344.9
---	-----	-------

E	5.0	341.6
---	-----	-------

C	13.0	333.6
---	------	-------

+10	17.1	349.5
-----	------	-------

Sec C

-10	14.9	333.7
-----	------	-------

E	8.3	338.3
---	-----	-------

C	3.9	344.7
---	-----	-------

W	1.7	344.9
---	-----	-------

346.55

DRAINING OF
17.5510 W

46

1+70

W	7.5	344.1
E	4.1	344.5
C	4.1	344.7
+10	8.0	338.6

3420.5

= 1/2 END EXISTING

side path
cut

-10	9.0	337.6
-----	-----	-------

E	3.6	343.0
---	-----	-------

C	3.5	343.1
---	-----	-------

+0	7.7	343.83
----	-----	--------

W	2.0	344.6
---	-----	-------

3+70

W	1.1	344.8
---	-----	-------

+10	4.7	344.58
-----	-----	--------

C	3.2	343.4
---	-----	-------

E	3.2	343.4
---	-----	-------

3+20

E	2.6	343.8
---	-----	-------

C	4.7	343.9
---	-----	-------

+6	1.7	344.83
----	-----	--------

W	1.3	345.3
---	-----	-------



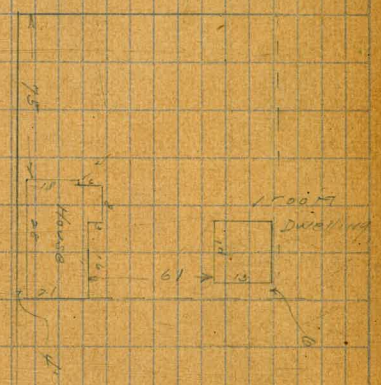
Levels on floor etc of house
at 34th & Broadway

Nelson 277	100.23	99.26	Broadway 34th
Outside S.W. of 34th	101.4	89.91	
Floor lev. of house at 34th	132.8	86.75	
" " " 1 room dwelling	173.9	82.64	
N.E. corner of lot	11.9	88.13	

10000
3/21/27

Broadway

34th



Blvd Hrs. Ties

See Gr. Bx 97
for pts to North

See page 74

448°-07'
T 118.51

Lillian

The Currier
Post 391

Viola

Man

Gertrude

R. Man

Ref = See FP 2387

62, 63, 64

48

Hub
Knox

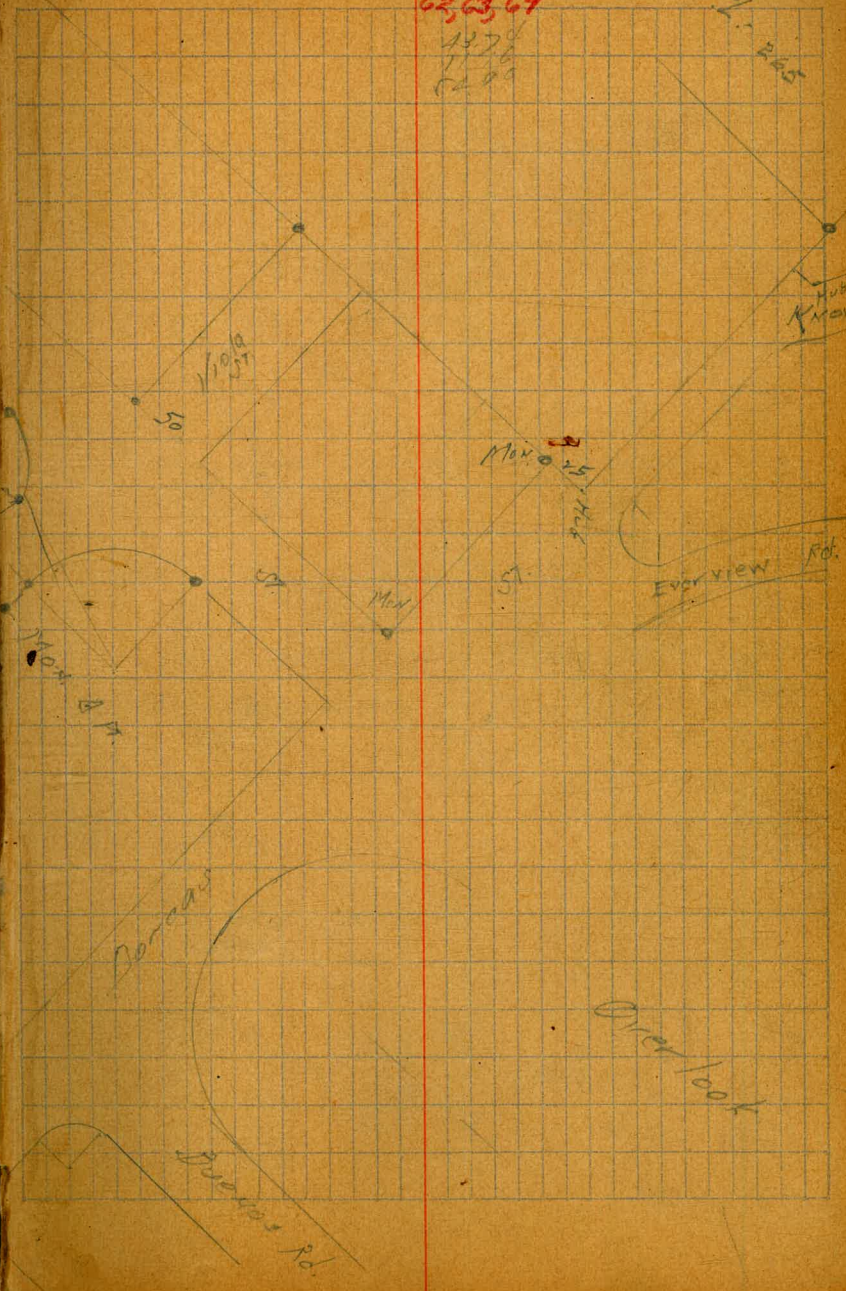
Min 0.25
HLL

Everview
Ref.

Dorcas

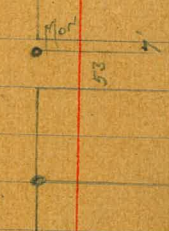
Overlook

Buonvis Rd.





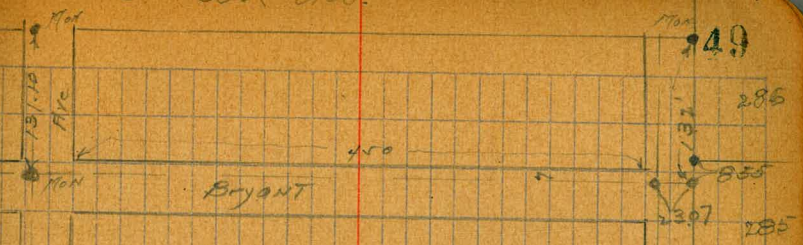
Linda



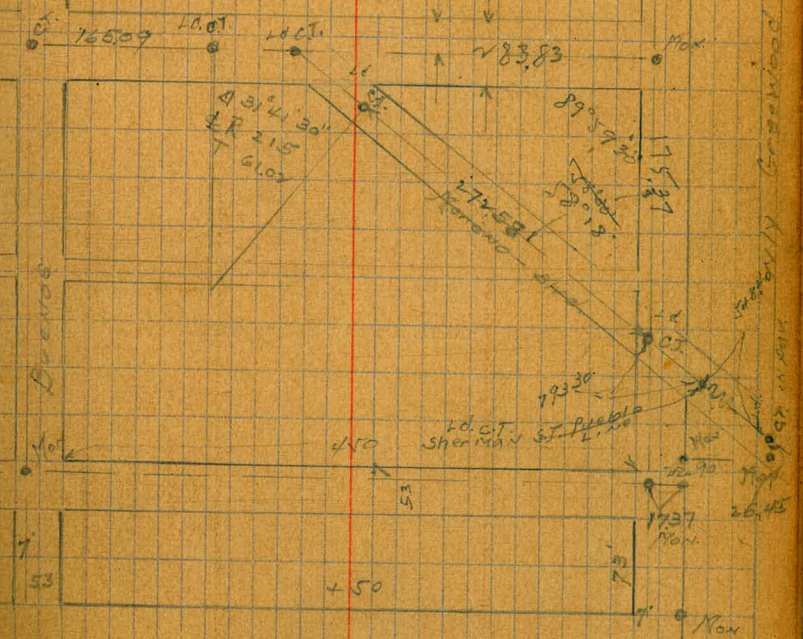
16509
61.07
277.58
61.07
333.60

Weeks

Overlook Add.



Weeks Add.



Dorcas

Cushman

149

285
285

175.37
173.19
173.30

26.45

+50

53

53

1d. 07 Sherman St Pueblo

1d. 07 Sherman St Pueblo

175.37
173.19
173.30

173.30

1737

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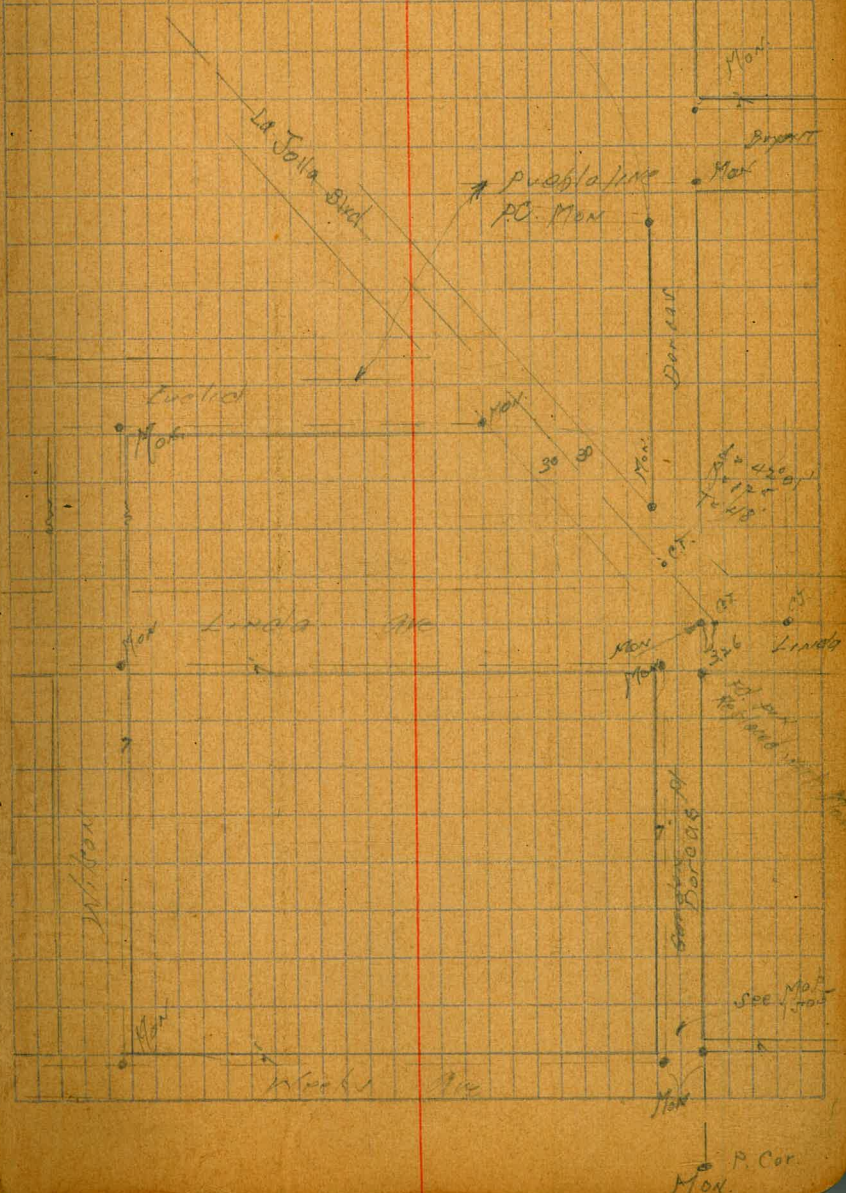
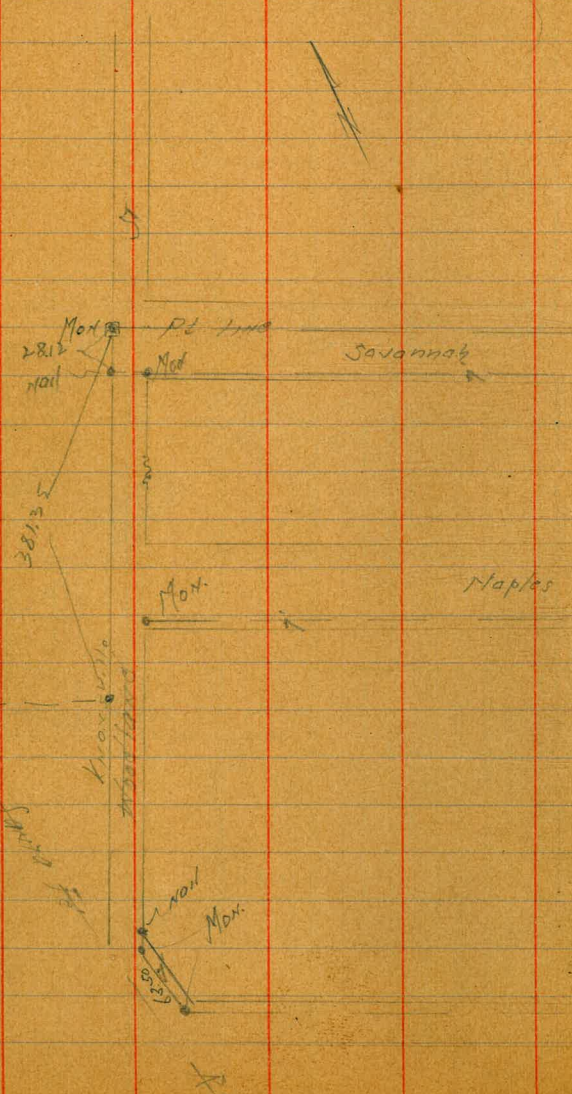
Mon

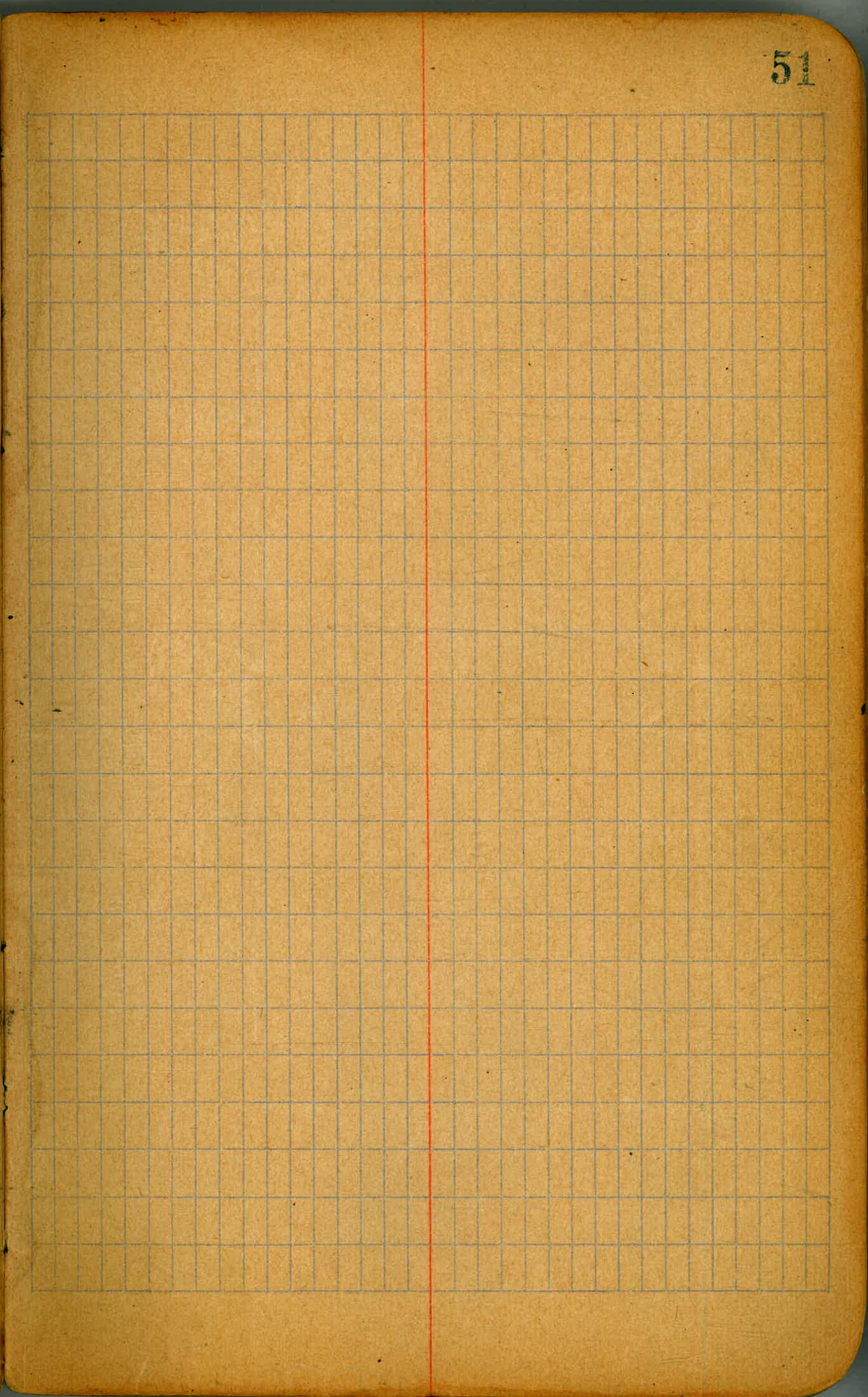
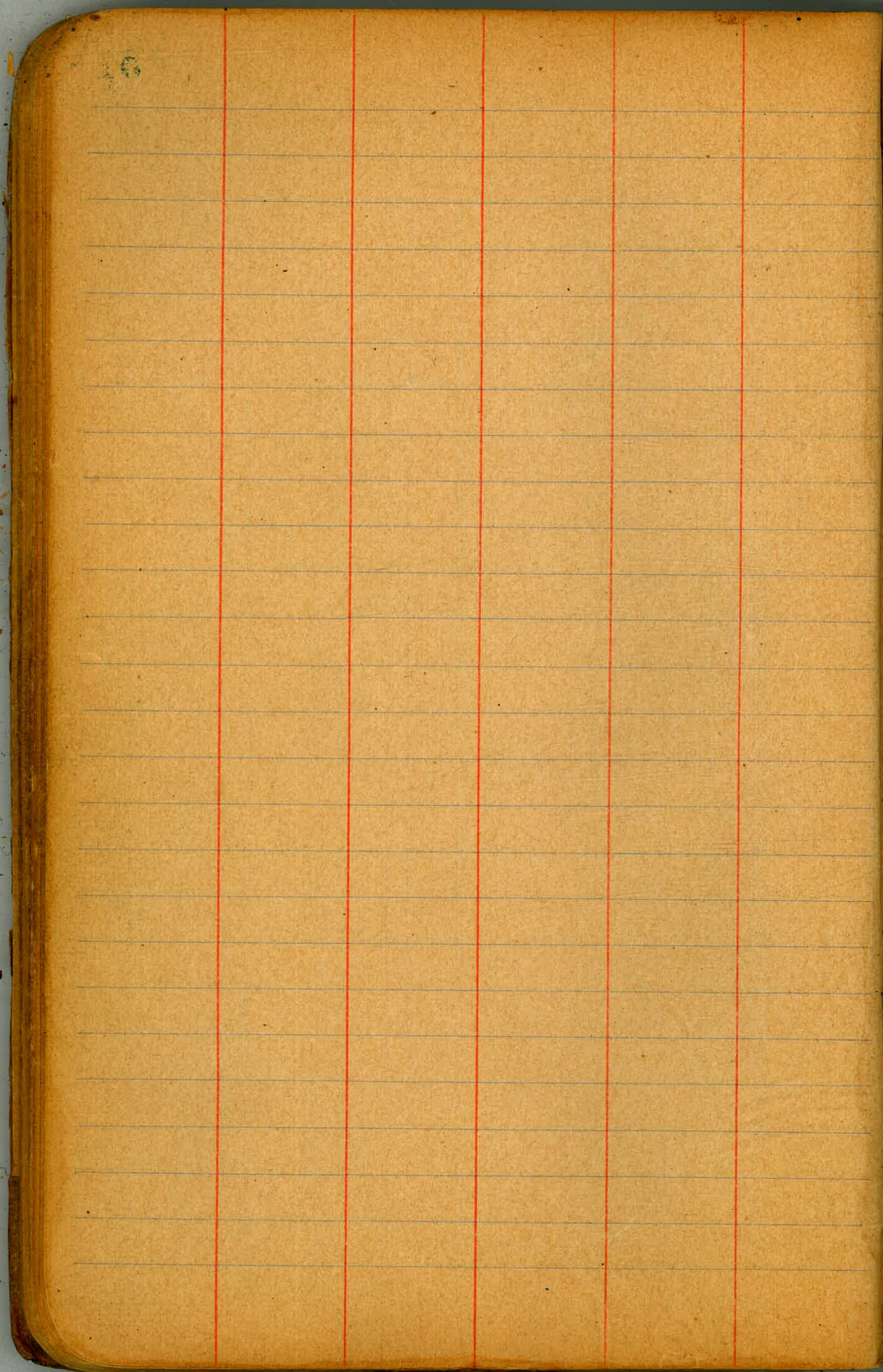
Mon

Mon

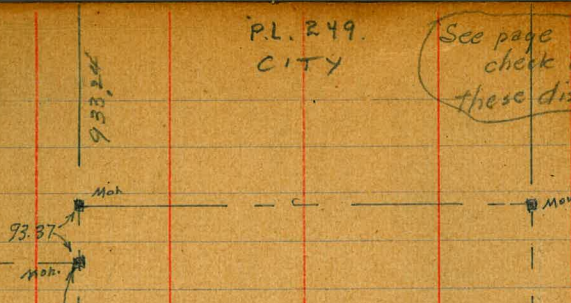
Mon

Mon





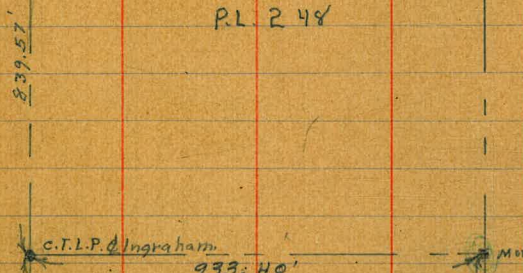
P.L. 215



P.L. 249
CITY

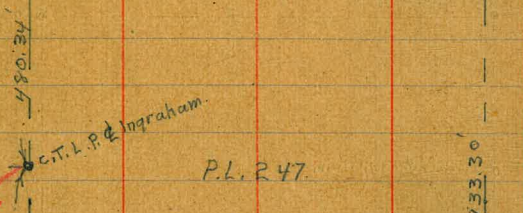
See page 73 for
check chain of
these distances

P.L. 216



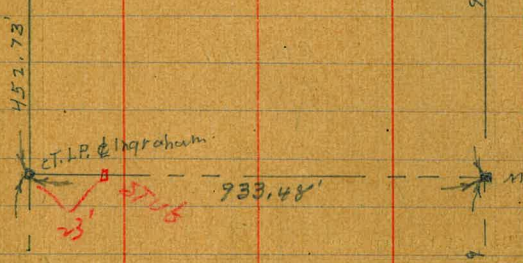
P.L. 248

Stub



P.L. 247

P.L. 217



P.L. 246



P.L. 247

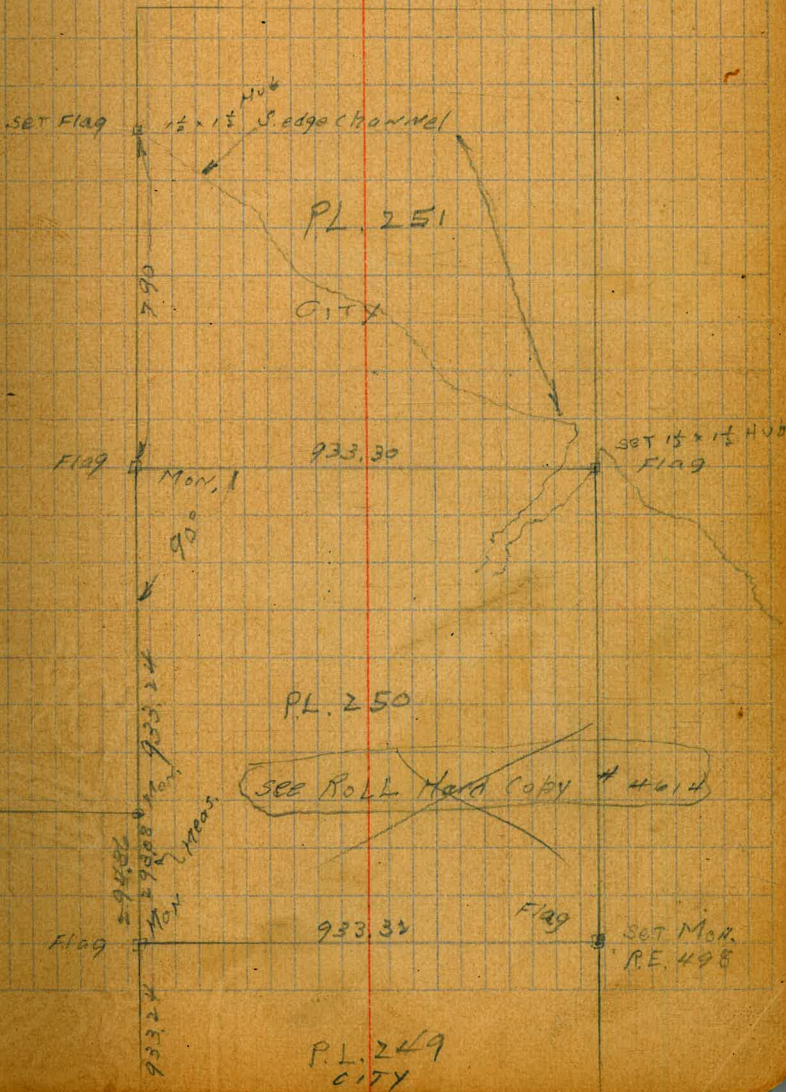
P.L. 258

indexed
c-s-k.

53

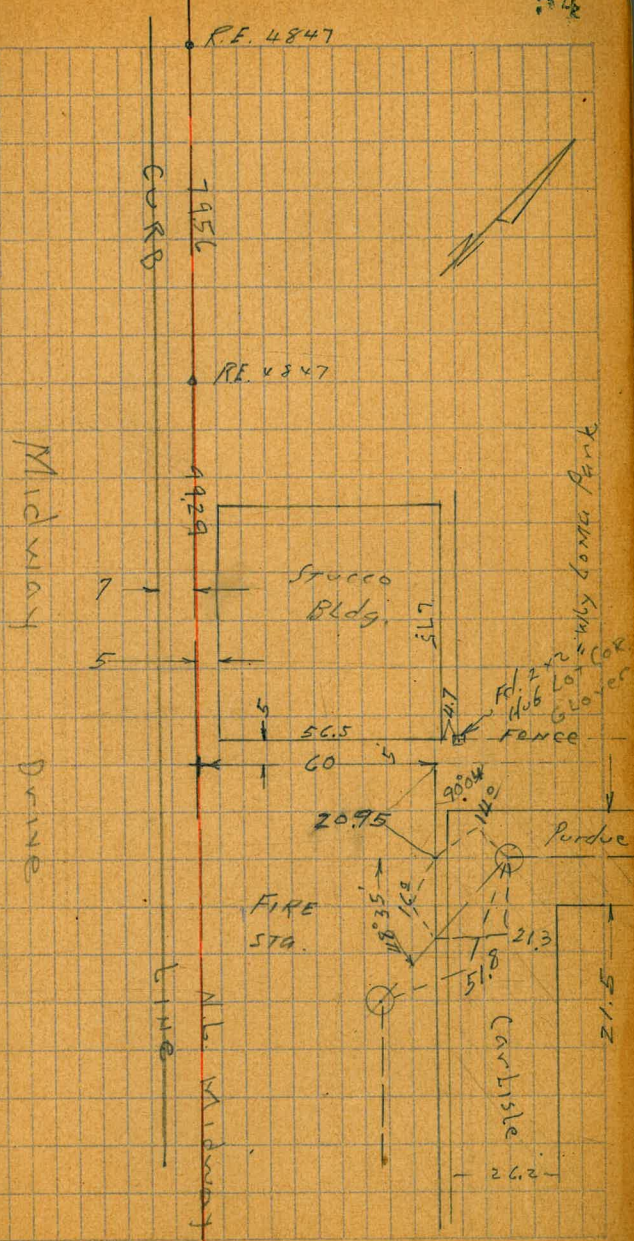
Survey of P.L. 249 & 251
CITY PROB.

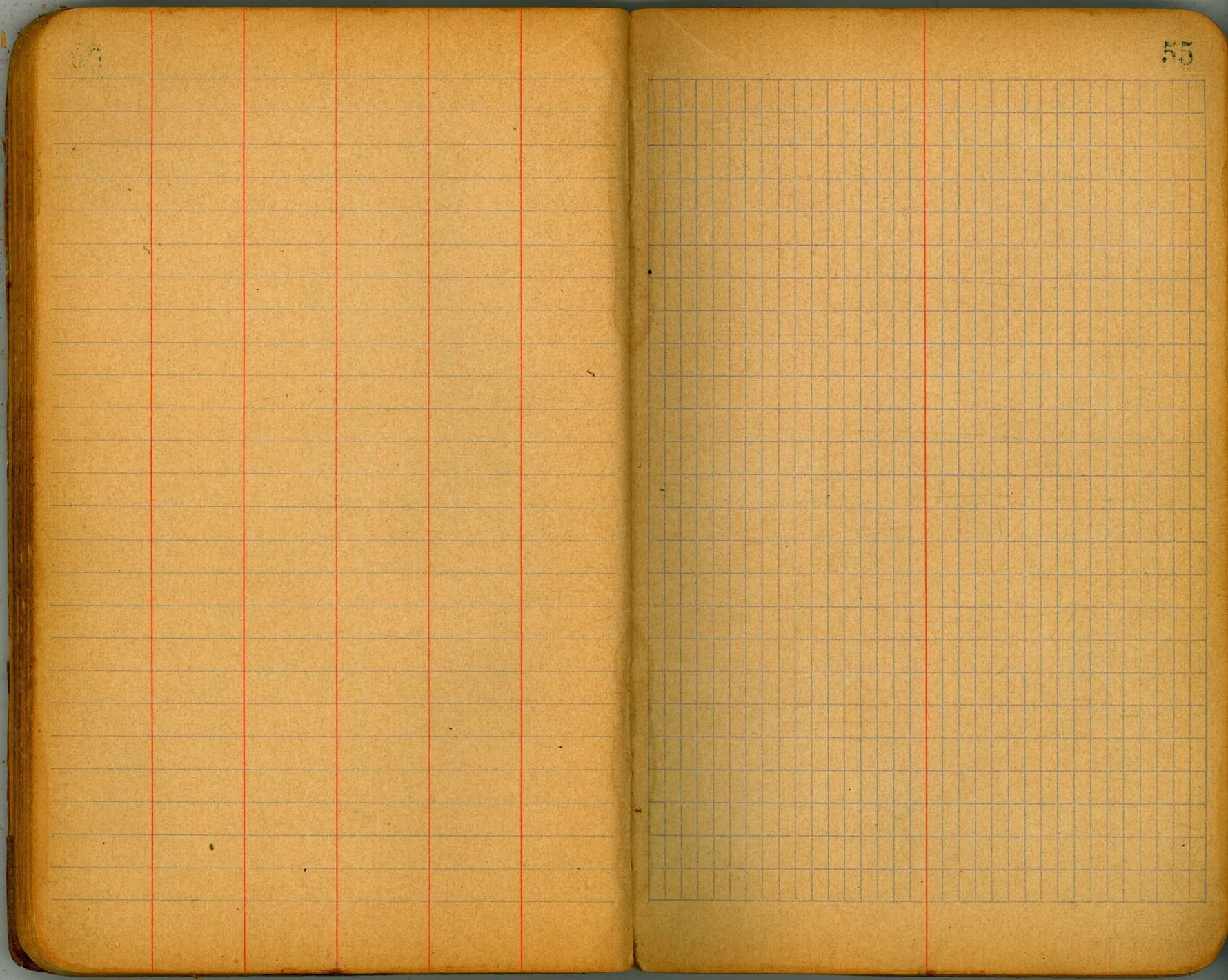
Moore
Dissan
Worthen
8-19-57



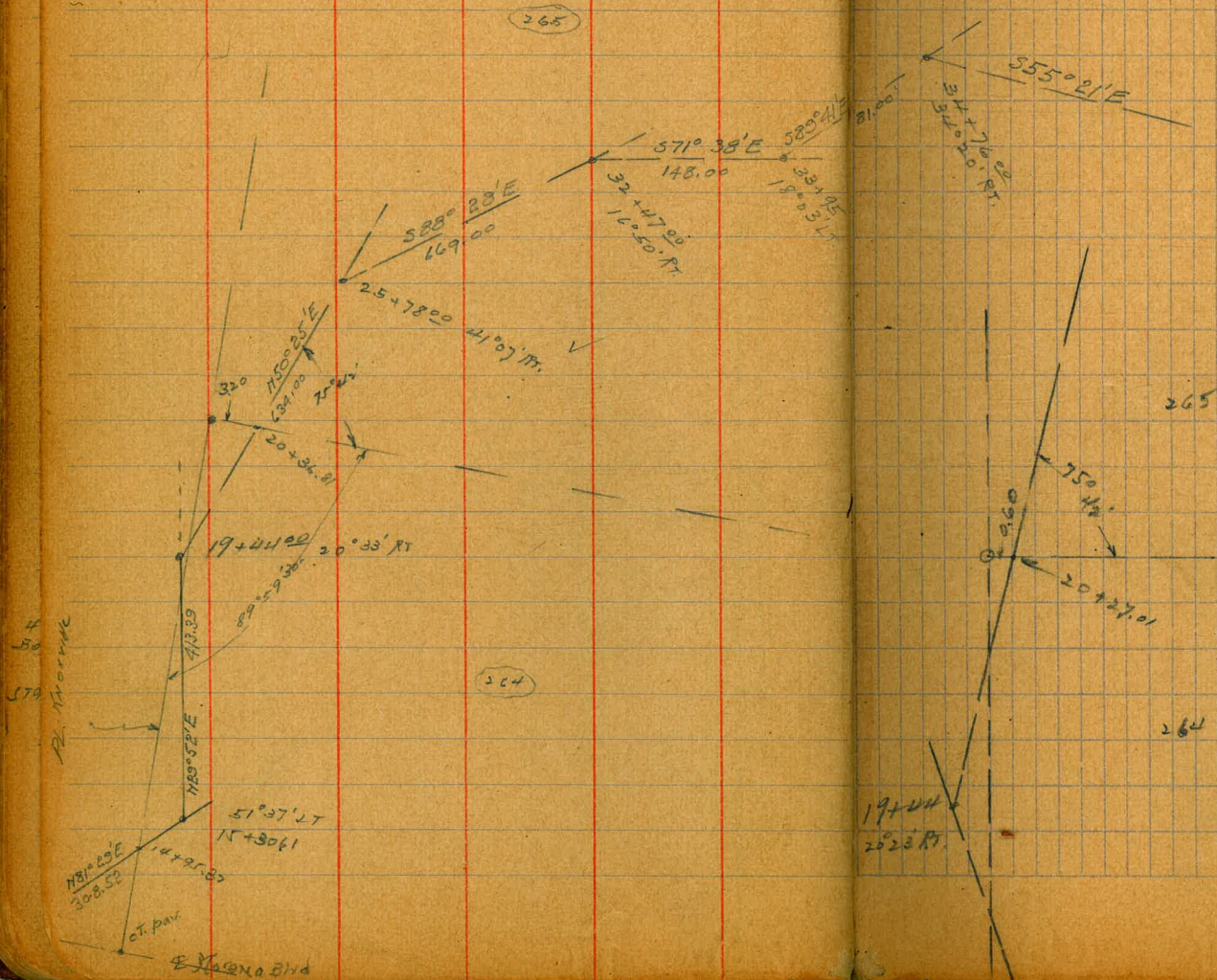
Location of Sewer
on Coma Park Trailer Project
PL 242

Moore
Begg
Shearman
Stinson
6-15-49





Proposed Tealote Drainage Ditch



+50

+2209 1 22' 01' 17 feet on split

7.1P

12.4X

200Y

7.0Y

7.58

+50

11

+50

10

12.60

$$\begin{array}{r} 17.3 \\ 20 \end{array}$$

$$\begin{array}{r} 7.8 \\ 10 \end{array}$$

$$\begin{array}{r} 9.57 \\ 10 \end{array}$$

$$\begin{array}{r} 5.3 \\ 10 \end{array}$$

$$\begin{array}{r} 5.5 \\ 10 \end{array}$$

$$\begin{array}{r} 6.5 \\ 10 \end{array}$$

$$\begin{array}{r} 7.0 \\ 10 \end{array}$$

$$\begin{array}{r} 7.8 \\ 20 \end{array}$$

$$\begin{array}{r} 7.0 \\ 20 \end{array}$$

$$\begin{array}{r} 7.5 \\ 10 \end{array}$$

$$\begin{array}{r} 6.7 \\ 10 \end{array}$$

$$\begin{array}{r} 9.0 \\ 10 \end{array}$$

$$\begin{array}{r} 9.0 \\ 10 \end{array}$$

$$\begin{array}{r} 7.2 \\ 10 \end{array}$$

$$\begin{array}{r} 7.1 \\ 10 \end{array}$$

$$\begin{array}{r} 7.7 \\ 10 \end{array}$$

$$\begin{array}{r} 6.4 \\ 10 \end{array}$$

$$\begin{array}{r} 5.9 \\ 10 \end{array}$$

$$\begin{array}{r} 6.3 \\ 10 \end{array}$$

$$\begin{array}{r} 8.2 \\ 10 \end{array}$$

$$\begin{array}{r} 7.2 \\ 10 \end{array}$$

$$\begin{array}{r} 6.9 \\ 10 \end{array}$$

$$\begin{array}{r} 7.6 \\ 10 \end{array}$$

$$\begin{array}{r} 9.0 \\ 10 \end{array}$$

$$\begin{array}{r} 6.0 \\ 10 \end{array}$$

$$\begin{array}{r} 7.5 \\ 10 \end{array}$$

$$\begin{array}{r} 8.0 \\ 10 \end{array}$$

$$\begin{array}{r} 6.9 \\ 10 \end{array}$$

$$\begin{array}{r} 6.0 \\ 10 \end{array}$$

$$\begin{array}{r} 6.8 \\ 10 \end{array}$$

$$\begin{array}{r} 7.6 \\ 10 \end{array}$$

$$\begin{array}{r} 8.2 \\ 10 \end{array}$$

$$\begin{array}{r} 8.3 \\ 20 \end{array}$$

$$\begin{array}{r} 8.3 \\ 10 \end{array}$$

$$\begin{array}{r} 6.2 \\ 10 \end{array}$$

$$\begin{array}{r} 6.0 \\ 10 \end{array}$$

$$\begin{array}{r} 7.2 \\ 10 \end{array}$$

$$\begin{array}{r} 8.3 \\ 10 \end{array}$$

$$\begin{array}{r} 8.7 \\ 20 \end{array}$$

$$\begin{array}{r} 6.0 \\ 10 \end{array}$$

$$\begin{array}{r} 7.2 \\ 10 \end{array}$$

$$\begin{array}{r} 8.3 \\ 10 \end{array}$$

19

+50

T.P.

10:40

18.7x

11.68

8.3x

18

+50

17

+50

16

200v

12.3
6.2
20

9.3
7.2
20

8.8
9.9
5

10.5
8.2
5

11.5
7.2
20

11.6
7.1
20

11.6
7.1
12

9.3
9.3
9.2

8.4
10.6
4

8.5
10.2
9

11.0
7.7
20

18.74

11.7
7.9
20

11.5
8.2
9

7.0
7.0
4

18.74
7.0
12.0

6.8
14.2
5

9.2
10.8
7

11.1
8.9
20

10.8
9.2
20

10.8
9.2
9

7.0
7.0
12.1

8.6
11.4
5

11.4
8.0
20

10.7
10.7
10.3

10.7
9.2
5

10.8
9.2
20

9.2
10.8
20

7.4
12.6
25

7.0
13.0
10

8.9
11.1
11.1

10.7
9.2
20

10.7
9.0
4

10.0
10.0
20

Ely edge road

20.02

24

+ 780 - 2 d 1° 07' R taken on split

+ 50

25

+ 50

24

T.P. 6.11 20.99 3.86 14.58

23 + 50

18.74

$$\begin{array}{r} 61.6 \\ 0 \end{array} \Big| 17.0$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 17.0$$

$$\begin{array}{r} 5 \\ 0 \end{array} \Big| 15.5$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.0$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 17.0$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 16.0$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 17.0$$

$$\begin{array}{r} 5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 16.2$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.8$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 5 \\ 0 \end{array} \Big| 15.2$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.6$$

$$\begin{array}{r} 5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 14.9$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.1$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.3$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 15.2$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 16.2$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 16.0$$

$$\begin{array}{r} 61.5 \\ 0 \end{array} \Big| 16.4$$

20.99

14.7

4.0

18.74

14.7

Survey P.L. 277

9-13-51

Sommer Meyer
Begg
R. Sisson
Altman

Ret. F.B. 1587-24

Map 427

" 5.78

See page 29

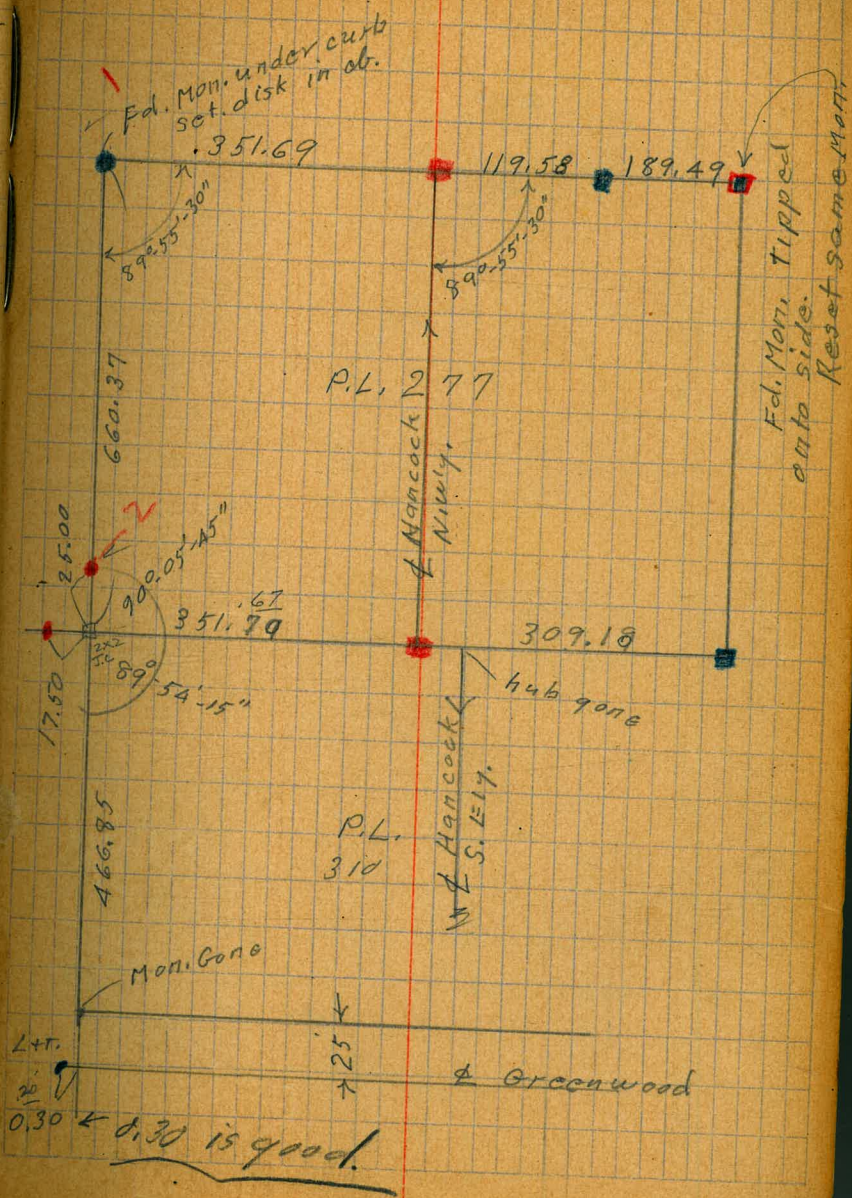
T.P. sheets { 546
547

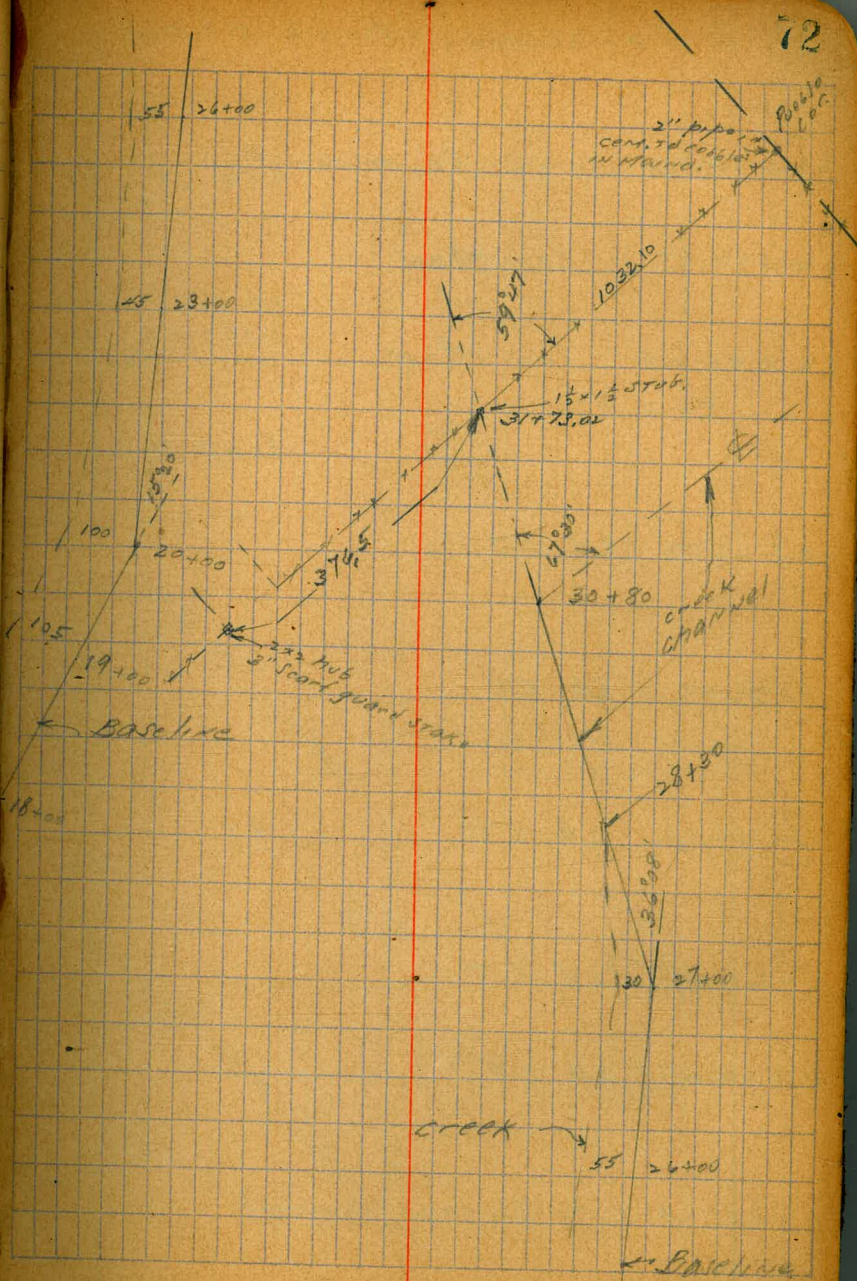
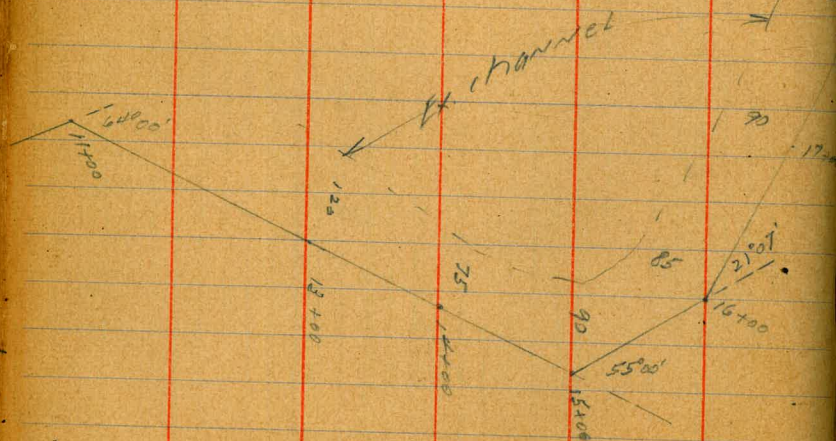
All distances chained & apportioned
All angles tolled 4 times

- = set Conc. Mon.
- = set disk + lead in conc.
- = Fd. Conc. Mon.
- = Fd. L+T. in conc.

Copied from FB 2146-2

69





Causeway, check chain

33+58.80 2x4 Causeway P.I.

32+99.97 Con. Mon.

32+06.24 Con. Mon.

(Moore
Osborne
11-14-40.)

Seep 53

23+46.73 Ld. C.T.

18+86.38 Ld. C.T.

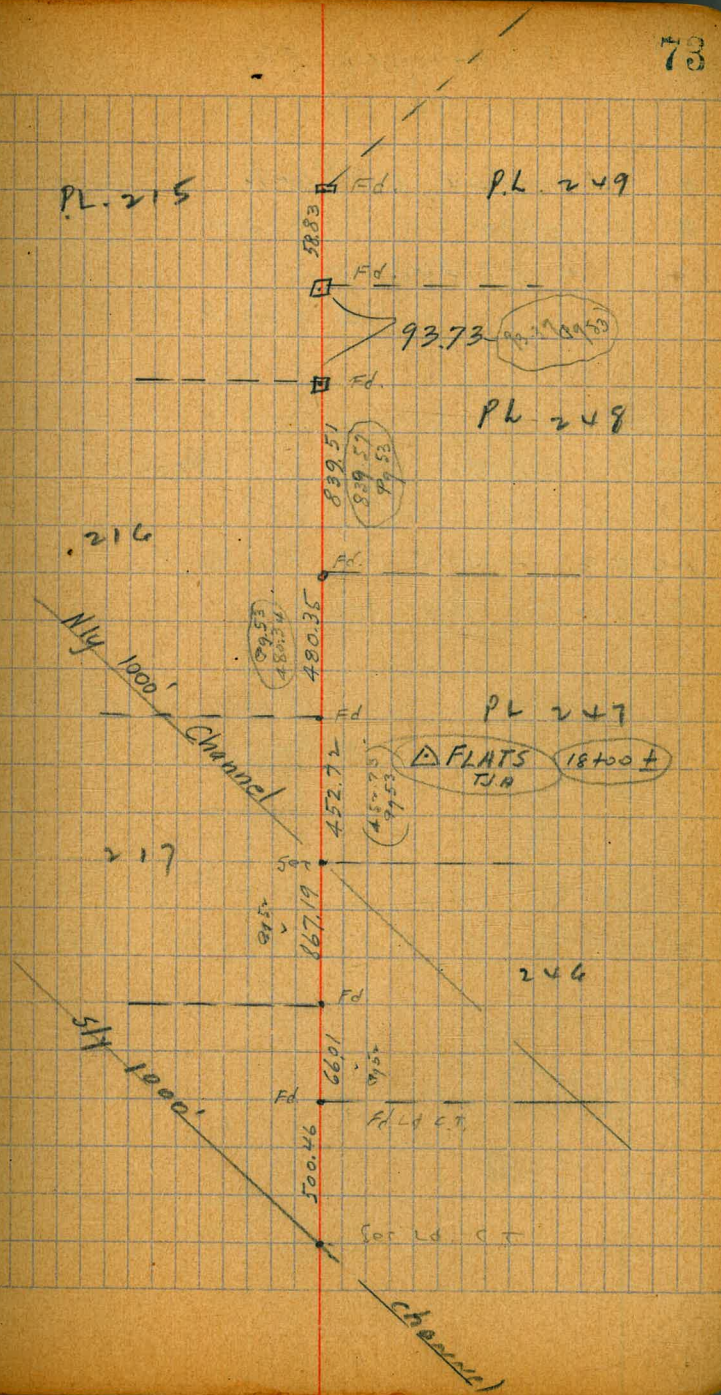
14+33.46 Ld. C.T.

5+66.47 Ld. C.T.

5+00.46 Ld. C.T.

0+00 Ld. C.T. 5/4 1000' channel

73



GERTRUDE ST

Also - on page 48

12-24-52

- denotes Fd. L+T. C.H.S.
- denotes fd Conc. Mon. 1399
- " Set " " altman
- " " 1/2 + disk Johns

distances shown on Lillian St.
 Lot 29 BIKIC, are in error.
 Lot is 25' wide but map shows
 16.88 west from E.C., this
 should be 15.88.

Ref. Map #1628
 + Page 48. this book

Gertrude reset from
 existing points as shown.

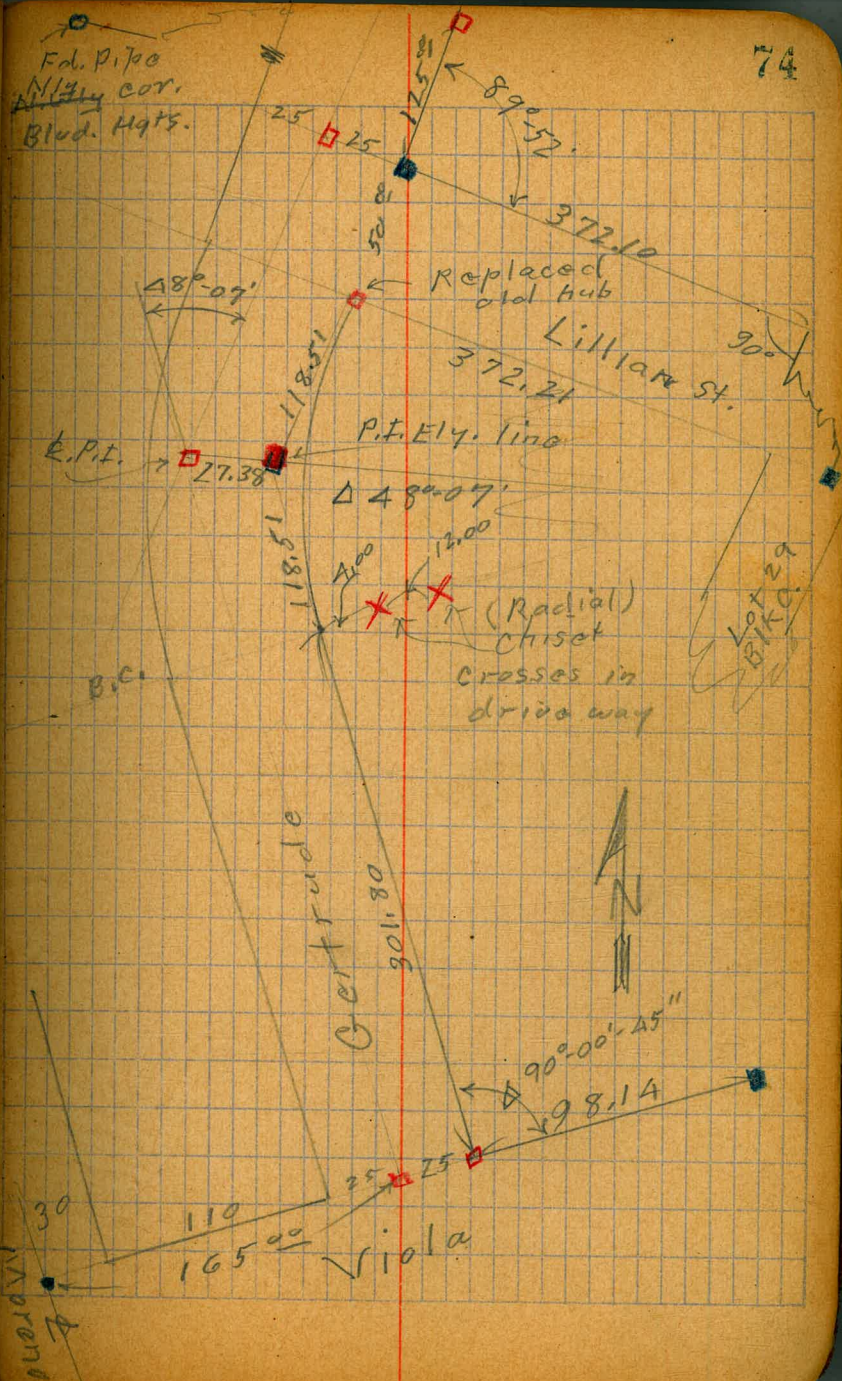
Ref = See FB 2387
 63, 64

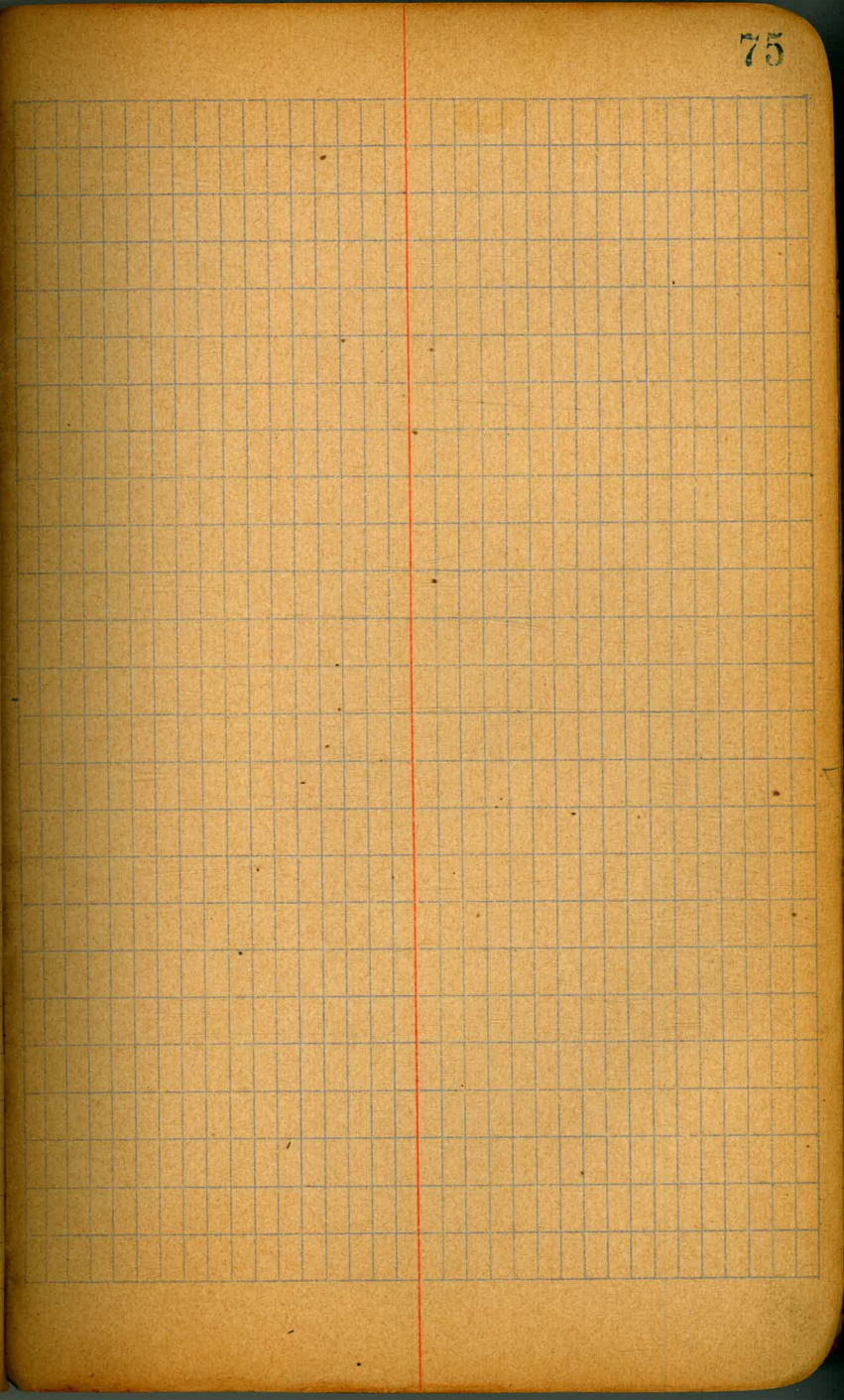
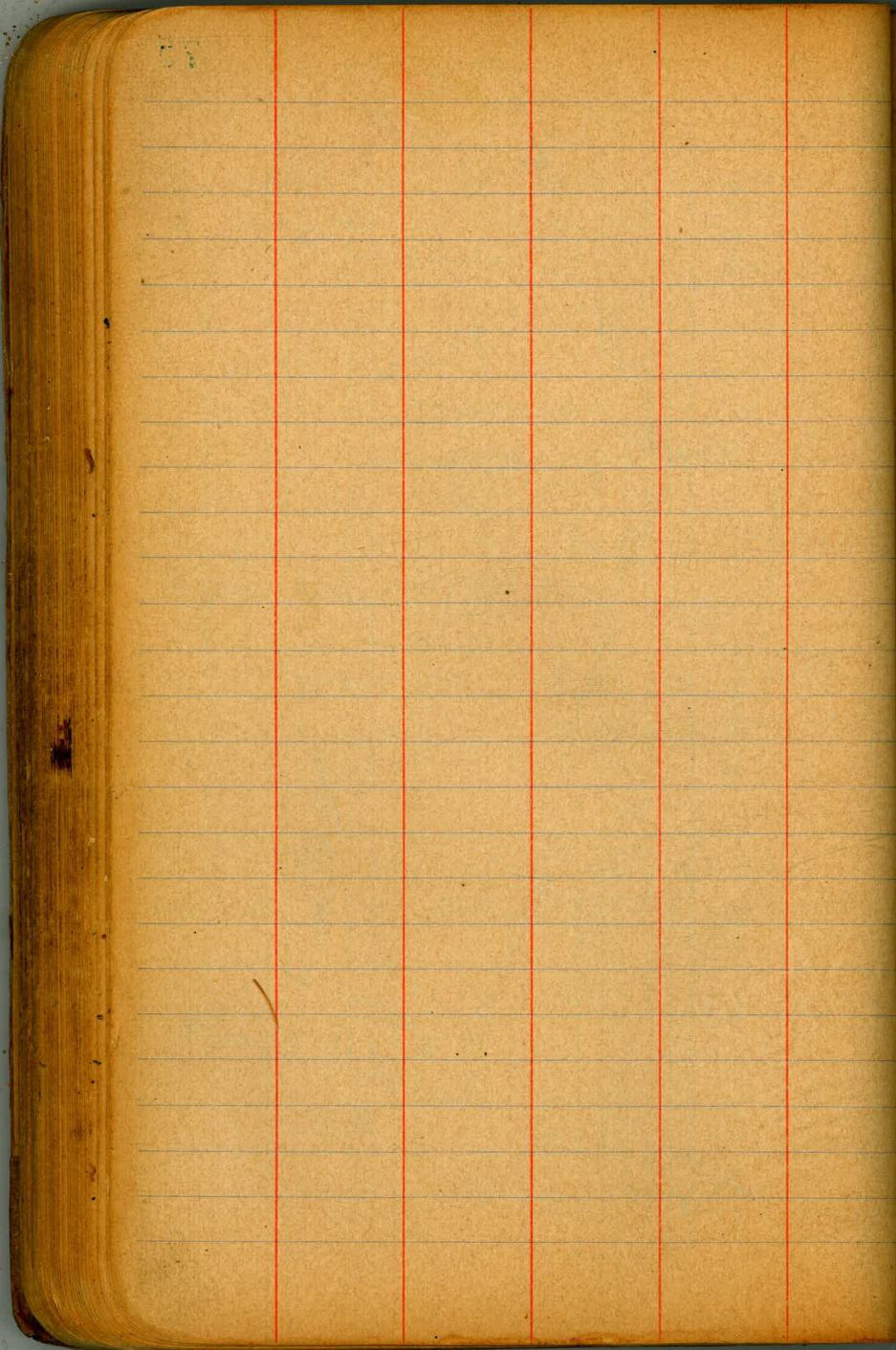
INDEXED

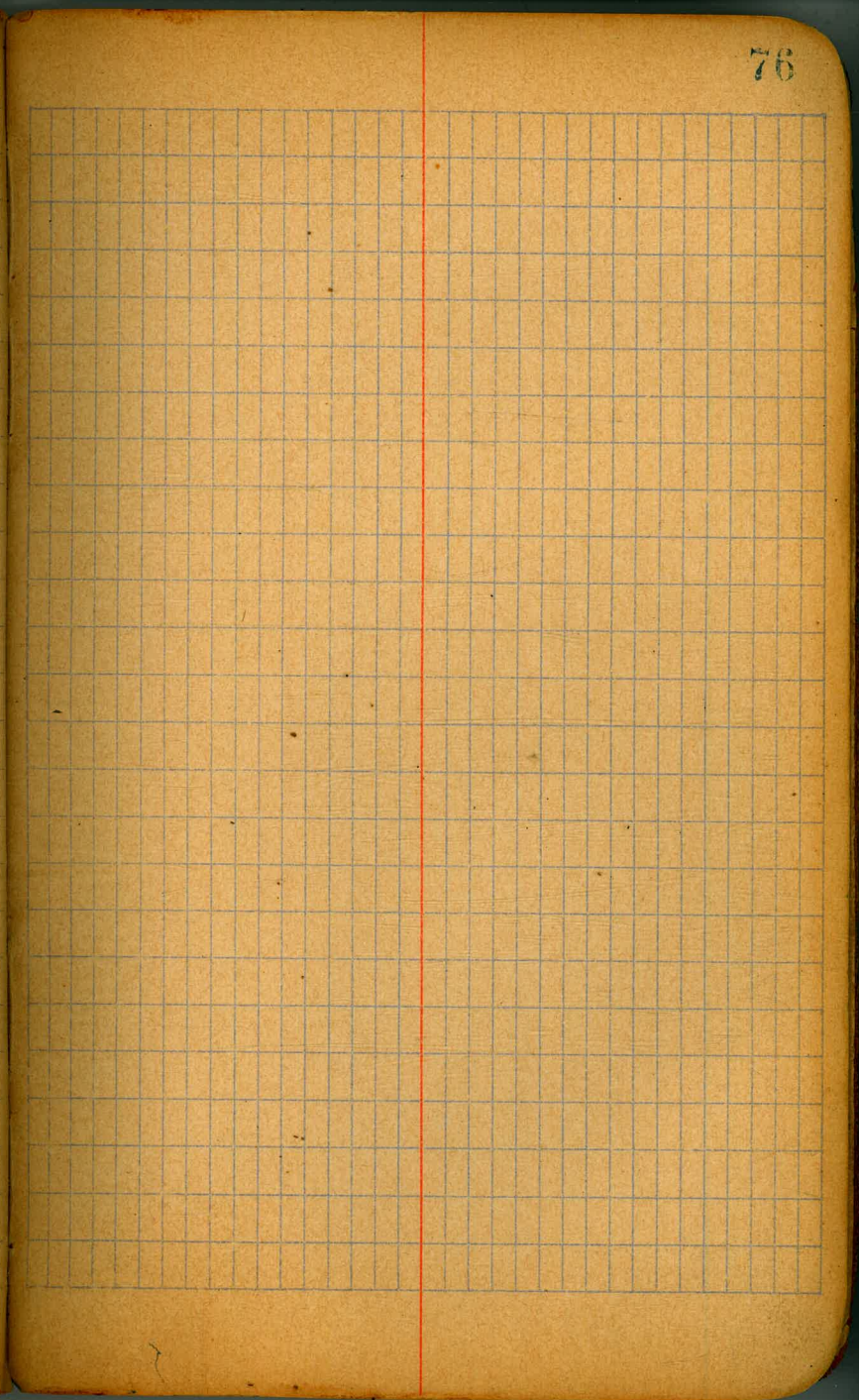
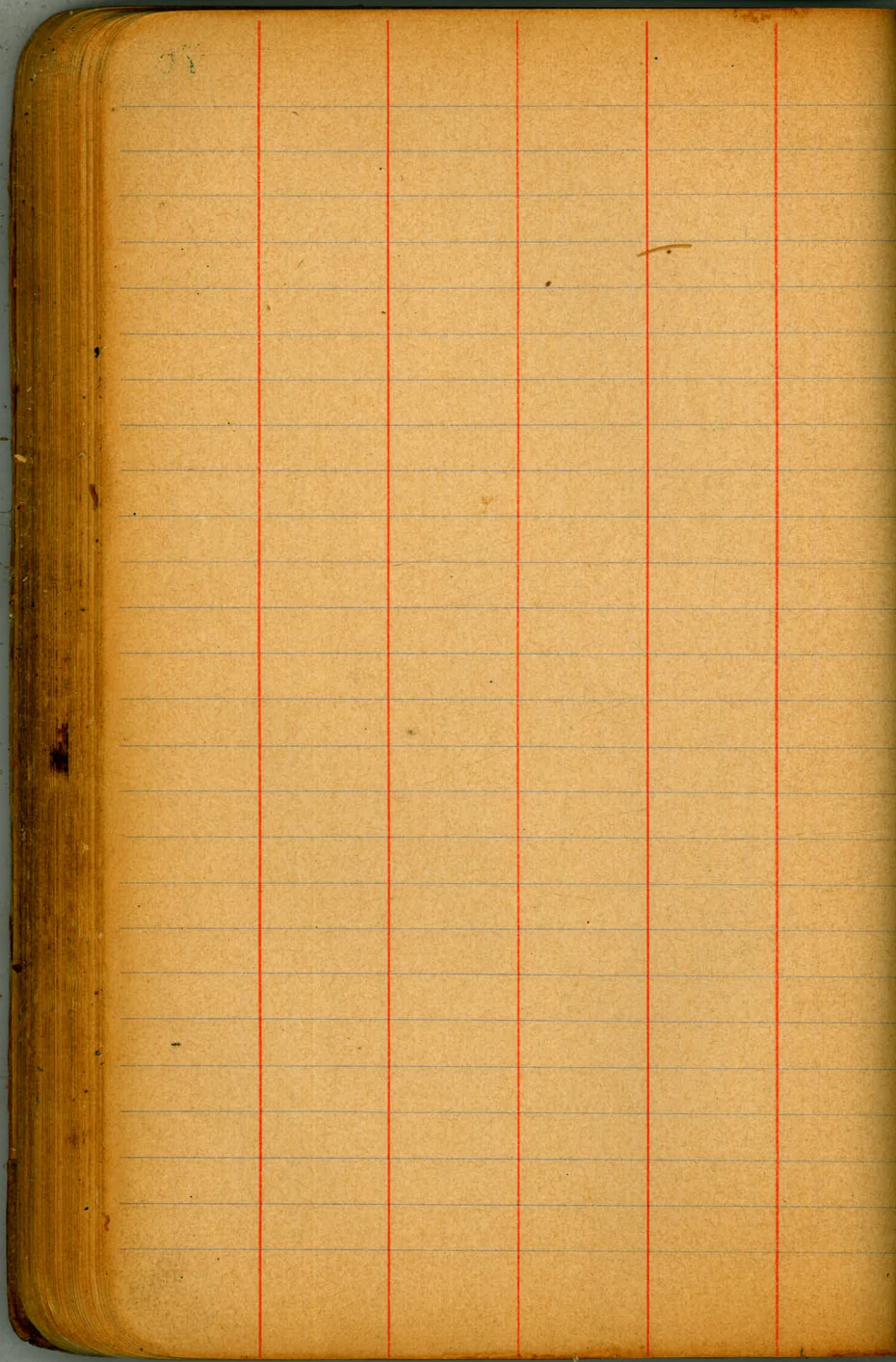
OCT 27 1952

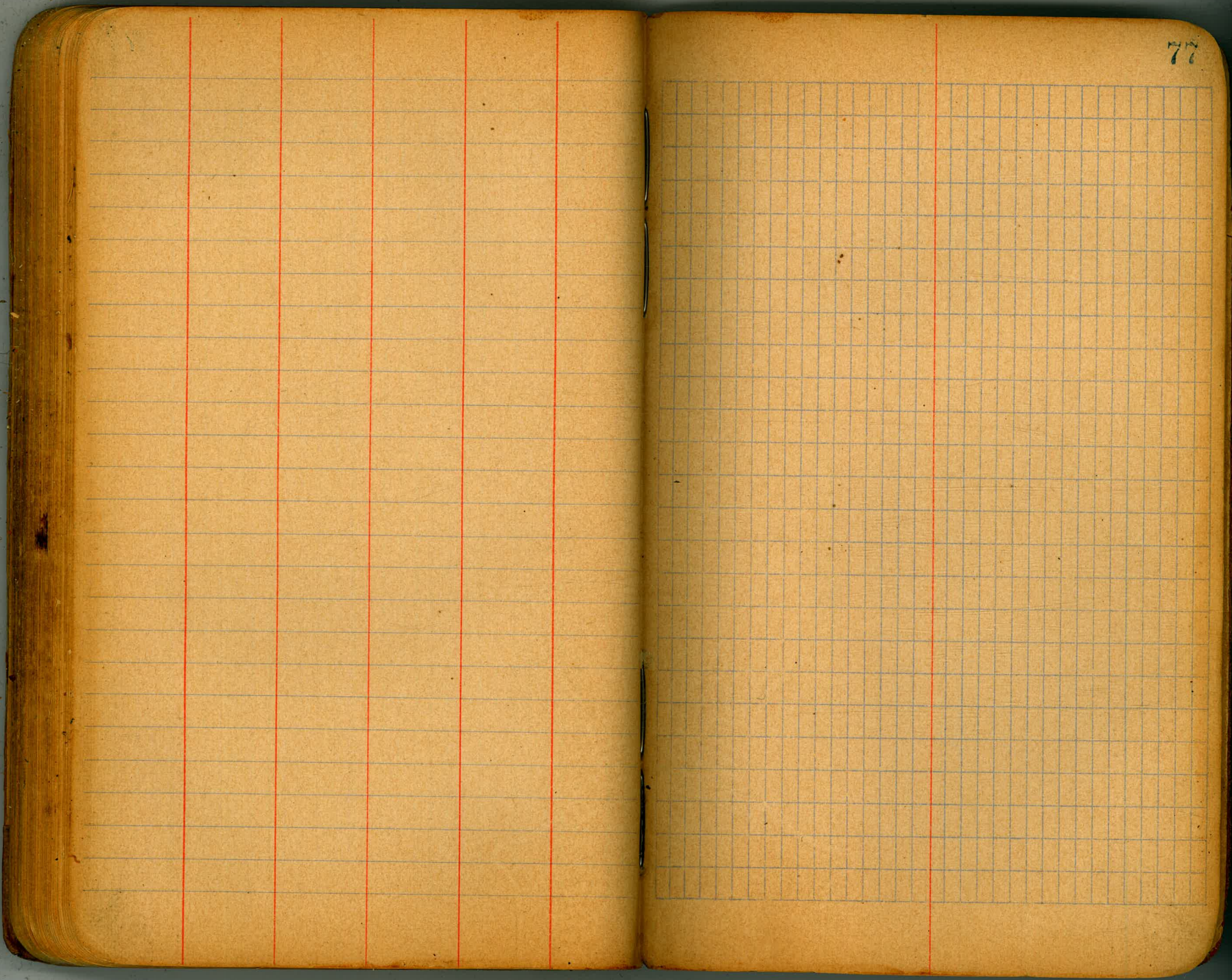
TP Sheet 566.

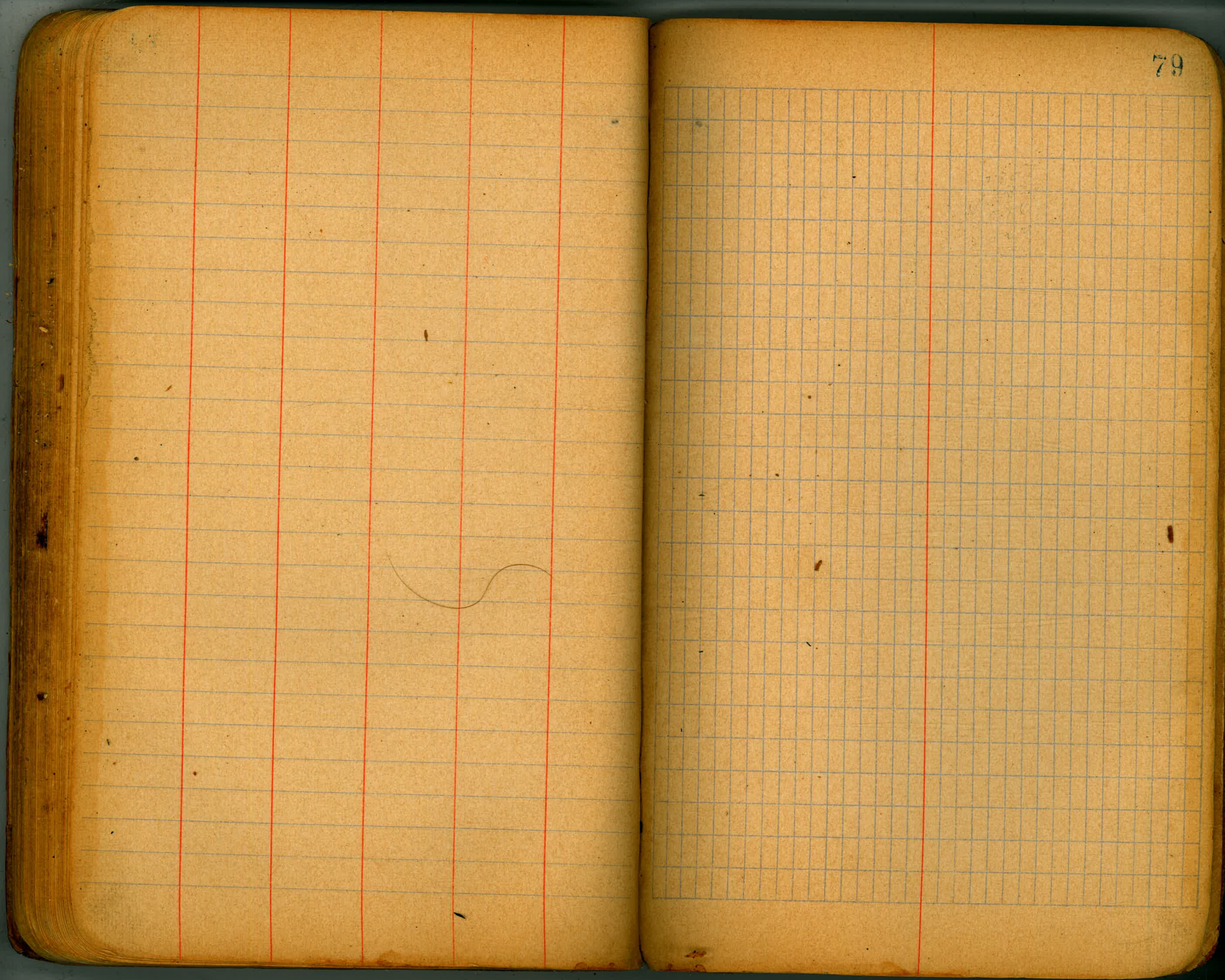
74

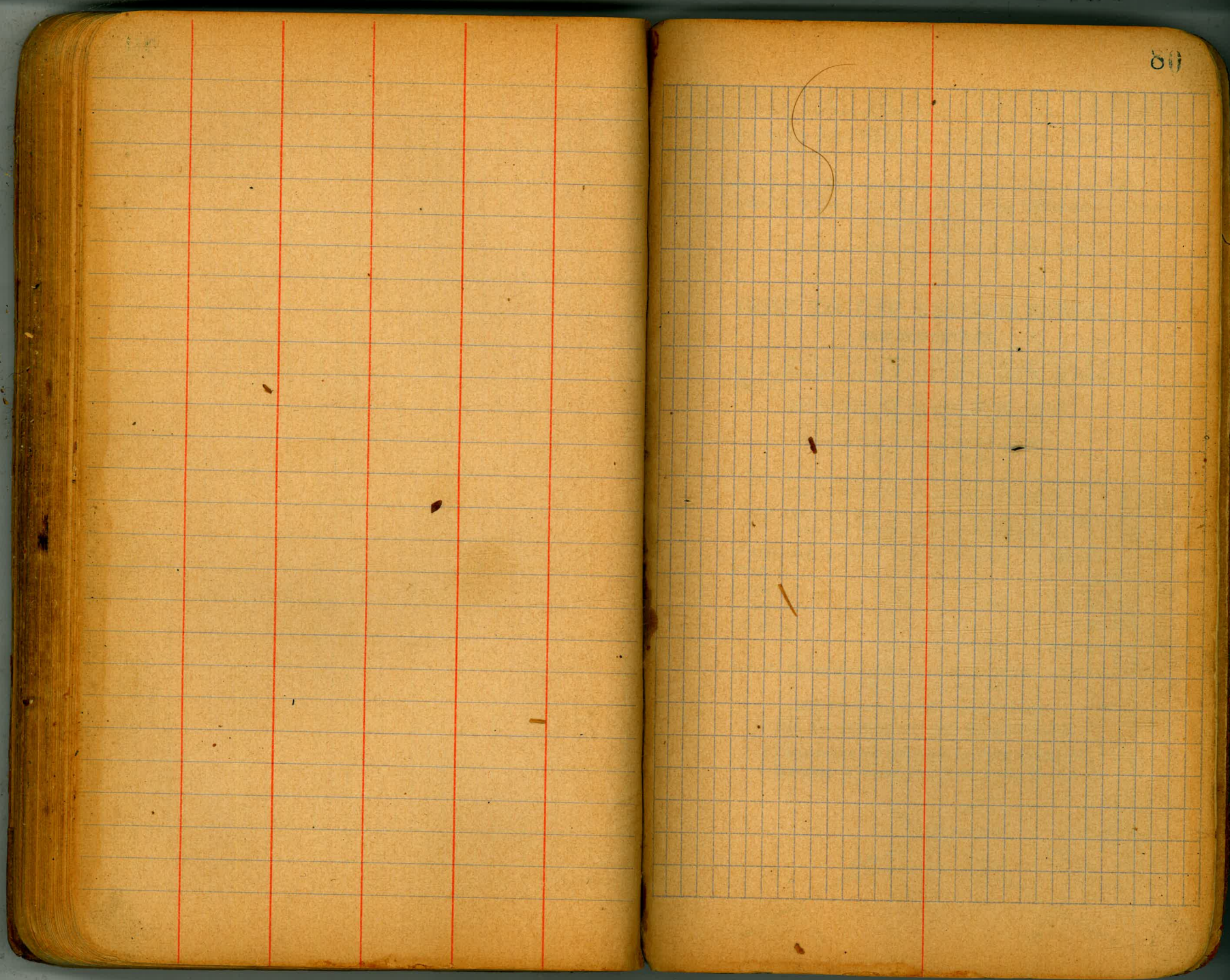












80

R 30-140
200-109

Time	Az	V
3 10	59° 12'	33° 25'
3 18	57° 12'	32° 12'

546.74
774.26
159.53
933.82
227.57

631
633
637
649
651
661
672
671
682
681
691
1233

KEITH'S RAILROAD CURVE TABLES.

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by W. Keuffel & H. Esser, in the office of the Librarian of Congress,
in Washington, D.C.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P. = 23° 20' to the R. at Station
542+72.

Ext. in Tab. IV opposite 23° 20' = 120.87
120.87 + 12 = 10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20' = 1183.1
1183.1 + 10 = 118.31.

Tab. V correction for A. 23° 20' for a 10° Cur. = 0.16
118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20' = 23.33° + 10 = 2.3333 = L. C.

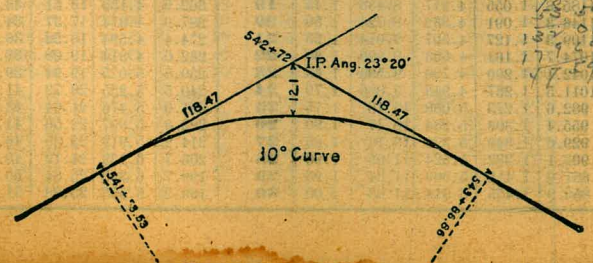
2° 19½' = def. for sta.	542	I. P. = sta.	542+72
4° 49½' = " " "	+50	Tan. =	1.18.47
7° 19½' = " " "	543	B. C. = sta.	541+53.53
9° 49½' = " " "	+50	L. C. =	2.33.33
11° 40' = " " "	543+	E. C. = sta.	543+86.86
	86.86		

100 - 53.53 = 46.47 × 3' (def. for 1 ft. of 10° Cur.) = 139.41' =
2° 19½" = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.

Def. for 36.86 ft. = 1° 50½' for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



Natural Tangents

sec.	0'	10'	20'	30'	40'	50'	sec.	0'	10'	20'	30'	40'	50'	sec.	
0	0000	0029	0058	0087	0116	0145	89	40	8391	8441	8491	8541	8591	8642	49
1	0175	0204	0233	0262	0291	0320	88	41	8693	8744	8796	8847	8899	8952	48
2	0349	0378	0407	0437	0466	0495	87	42	9004	9057	9110	9163	9217	9271	47
3	0524	0553	0582	0612	0641	0670	86	43	9325	9380	9435	9490	9545	9601	46
4	0699	0729	0758	0787	0816	0846	85	44	9657	9713	9770	9827	9884	9942	45
5	0875	0904	0934	0963	0992	1022	84	45	1.0000	1.0058	1.0117	1.0176	1.0235	1.0295	44
6	1051	1080	1110	1139	1169	1198	83	46	1.0355	1.0416	1.0477	1.0538	1.0599	1.0661	43
7	1228	1257	1287	1317	1346	1376	82	47	1.0724	1.0786	1.0850	1.0913	1.0977	1.1041	42
8	1405	1435	1465	1495	1524	1554	81	48	1.1106	1.1171	1.1237	1.1303	1.1369	1.1436	41
9	1584	1614	1644	1673	1703	1733	80	49	1.1504	1.1571	1.1640	1.1708	1.1778	1.1847	40
10	1763	1793	1823	1853	1883	1914	79	50	1.1918	1.1988	1.2059	1.2131	1.2203	1.2276	39
11	1944	1974	2004	2035	2065	2095	78	51	1.2349	1.2423	1.2497	1.2572	1.2647	1.2723	38
12	2126	2156	2186	2217	2247	2278	77	52	1.2799	1.2876	1.2954	1.3032	1.3111	1.3190	37
13	2309	2339	2370	2401	2432	2462	76	53	1.3270	1.3351	1.3432	1.3514	1.3597	1.3680	36
14	2493	2524	2555	2586	2617	2648	75	54	1.3764	1.3848	1.3934	1.4019	1.4106	1.4193	35
15	2679	2711	2742	2773	2805	2836	74	55	1.4281	1.4370	1.4460	1.4550	1.4641	1.4733	34
16	2867	2899	2931	2962	2994	3026	73	56	1.4826	1.4919	1.5013	1.5108	1.5204	1.5301	33
17	3057	3089	3121	3153	3185	3217	72	57	1.5309	1.5407	1.5507	1.5607	1.5708	1.5809	32
18	3249	3281	3314	3346	3378	3411	71	58	1.6003	1.6107	1.6212	1.6319	1.6426	1.6534	31
19	3443	3476	3508	3541	3574	3607	70	59	1.6643	1.6753	1.6864	1.6977	1.7090	1.7205	30
20	3640	3673	3706	3739	3772	3805	69	60	1.7321	1.7437	1.7556	1.7675	1.7797	1.7917	29
21	3839	3872	3906	3939	3973	4006	68	61	1.8040	1.8165	1.8291	1.8418	1.8546	1.8676	28
22	4040	4074	4108	4142	4176	4210	67	62	1.8807	1.8940	1.9074	1.9210	1.9347	1.9486	27
23	4245	4279	4314	4348	4383	4417	66	63	1.9626	1.9768	1.9912	2.0057	2.0204	2.0353	26
24	4452	4487	4522	4557	4592	4628	65	64	2.0503	2.0655	2.0809	2.0965	2.1123	2.1283	25
25	4663	4699	4734	4770	4806	4841	64	65	2.1445	2.1609	2.1775	2.1943	2.2113	2.2286	24
26	4877	4913	4950	4986	5022	5059	63	66	2.2460	2.2637	2.2817	2.2998	2.3183	2.3369	23
27	5095	5132	5169	5206	5243	5280	62	67	2.3559	2.3750	2.3945	2.4142	2.4342	2.4545	22
28	5317	5354	5392	5430	5467	5505	61	68	2.4751	2.4960	2.5172	2.5386	2.5605	2.5826	21
29	5543	5581	5619	5658	5696	5735	60	69	2.6051	2.6279	2.6511	2.6746	2.6985	2.7228	20
30	5774	5812	5851	5890	5930	5969	59	70	2.7475	2.7725	2.7980	2.8239	2.8502	2.8770	19
31	6009	6048	6088	6128	6168	6208	58	71	2.9042	2.9310	2.9600	2.9887	3.0178	3.0475	18
32	6249	6289	6330	6371	6412	6453	57	72	3.0777	3.1084	3.1397	3.1716	3.2041	3.2371	17
33	6494	6536	6577	6619	6661	6703	56	73	3.2709	3.3052	3.3402	3.3759	3.4124	3.4495	16
34	6745	6787	6830	6873	6916	6959	55	74	3.4874	3.5261	3.5656	3.6059	3.6470	3.6891	15
35	7002	7046	7089	7133	7177	7221	54	75	3.7321	3.7760	3.8208	3.8657	3.9136	3.9617	14
36	7265	7310	7355	7400	7445	7490	53	76	4.0108	4.0611	4.1126	4.1653	4.2193	4.2747	13
37	7536	7581	7627	7673	7720	7766	52	77	4.3315	4.3897	4.4494	4.5107	4.5736	4.6382	12
38	7813	7860	7907	7954	8002	8050	51	78	4.7046	4.7729	4.8430	4.9152	4.9894	5.0658	11
39	8098	8146	8195	8243	8292	8342	50	79	5.1446	5.2257	5.3093	5.3955	5.4845	5.5764	10

sec.	60'	50'	40'	30'	20'	10'	sec.	60'	50'	40'	30'	20'	10'	sec.		
80	5.6713	5.7694	5.8708	5.9758	6.0844	6.1970	9	60	6.1970	6.3138	6.4348	6.5606	6.6912	6.8269	6.9682	8
81	6.3138	6.4348	6.5606	6.6912	6.8269	6.9682	8	61	6.9682	7.1154	7.2687	7.4287	7.5958	7.7704	7.9530	7
82	7.1154	7.2687	7.4287	7.5958	7.7704	7.9530	7	62	7.9530	8.1443	8.3450	8.5555	8.7769	9.0098	9.2533	6
83	8.1443	8.3450	8.5555	8.7769	9.0098	9.2533	6	63	9.2533	9.4914	9.7482	10.0158	10.2944	10.5841	10.8850	5
84	9.4914	9.7482	10.0158	10.2944	10.5841	10.8850	5	64	10.8850	11.1930	11.5124	11.8437	12.1869	12.5420	12.9091	4
85	11.1930	11.5124	11.8437	12.1869	12.5420	12.9091	4	65	12.9091	13.2903	13.6834	14.0885	14.5057	14.9350	15.3764	3
86	13.2903	13.6834	14.0885	14.5057	14.9350	15.3764	3	66	15.3764	15.8205	16.2774	16.7471	17.2297	17.7252	18.2337	2
87	15.8205	16.2774	16.7471	17.2297	17.7252	18.2337	2	67	18.2337	18.7503	19.2799	19.8226	20.3884	20.9674	21.5597	1
88	18.7503	19.2799	19.8226	20.3884	20.9674	21.5597	1	68	21.5597	22.1624	22.7883	23.4374	24.1097	24.8052	25.5239	0
89	22.1624	22.7883	23.4374	24.1097	24.8052	25.5239	0	69	25.5239	26.2566	27.0335	27.8346	28.6599	29.5094	30.3831	0

Natural Cotangents

375
87.07
87.93

937.64
83.10
704.54
246
658.54

62778
30433
35620
66020
38061
54748
186577
18949
18949
1017
9337

849.15
246.55
03.15
61.2
550.6
8531
603.7
50

900530
894520
8952
8951
3585900
101
8338
66050
18949
93367
7724
1613

405.15
91472
131997
51747
7724

8928
8928
900530
894530
3591200
4740
5608940
354
1240
4740

507
09
14
19
27
32
37

61.18
550.62
58.07
50.00
88.12
68648
24053
50753

1791900
831444
964518



