

G 106

369

TRANSIT

Giving the difference of latitude and departure in
ing 80 chains at any course from 1 to 60 minutes.

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

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the
number of links to be added to a chain on the slopes, to make one
chain, horizontal measurement.

Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07



5/1/25
Return to City Engineers Office
City Hall, San Diego, Cal.

Handwritten calculations:
26.082
175.00
26.082
175.00
26.082
175.00

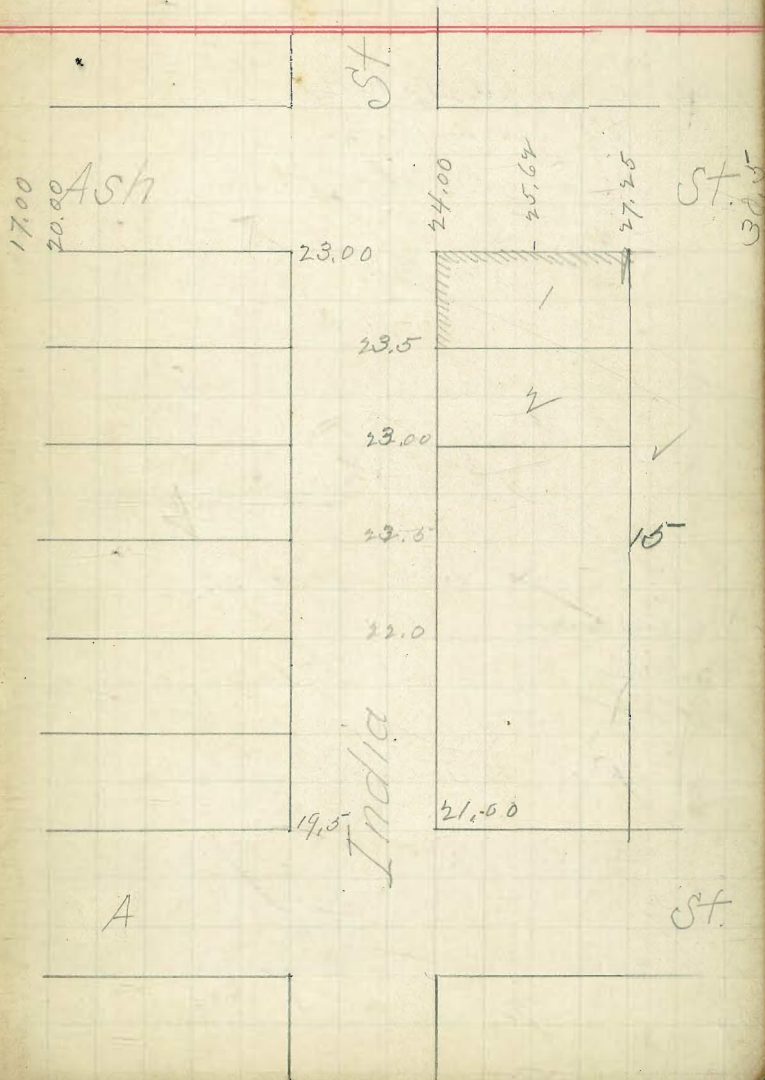
Handwritten calculations:
96.
279
282

✓ November 1st 1900

24.00		29.87
23.26 = 13.12 = 23.26		23.50
<u>74</u>		<u>6.37</u>
29.87	29.87 = H.1.	
<u>15.76</u>	<u>24.00</u>	
4.11	5.87	
29.87		
<u>27.25</u>		
2.62		

Curb grades for Jno. Kelly
 Lot 1, Blk. 15th Middletown

d. Hemencomb
 Orwell -
 Williams -



Nov. 3rd 1900

Eleventh Street,

The

0 is at a point $5\frac{1}{2}$ ft. West of
the East line of 11th st, and 100 ft.
South of the No. line of N. st,
thence Southly on a line parallel
to 11th street.

	Rod	Elev.	H.I.
on curb 3.0 18 W. 10th N Bottom of curb 0	5.39		8.39
	5.95	3.44	
+ 50	5.61	2.78	
+ 55	5.60	2.79	
+ 60	9.05	- .66	
1	10.50	- 2.11	
+ 16.5	11.20	- 2.81	

.. Size of. Box 12" x 26"

Twelfth Street,

Sta

0 is at a point on Cent line on
West side of 12th. st. and South
of No. side of N. st. 61.0 ft.

	Rod	Elw.	H. I.
Bottom subwat-			8.39
0	11.20	-2.81	
+ .5	7.80	.19	
1	7.00	1.39	
+ 60	9.65	-1.26	
	7.22		
	<u>2.81</u>		
	4.41		4.41
+ 78	8.20	-3.79	

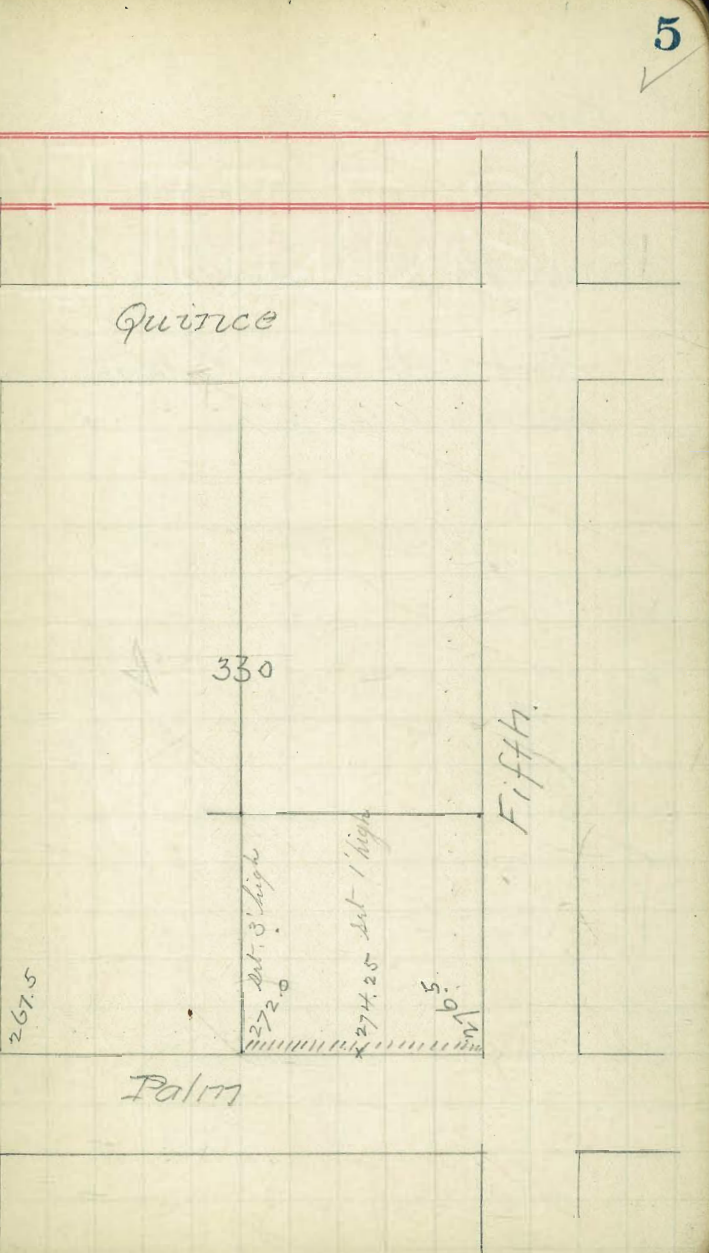
Size of Box 12" x 12"

✓ Nov. 7th 1900-

Curb Grade for
Reilly (Contractor)
100' on North side of Palm
betn 4th + 5th, as per sketch
on opposite page.

B.M.	277.24		
	3.04		
	<u>280.28</u>	= H.I.	
	276.50		
	3.78	280.28	280.28
		<u>274.25</u>	<u>272.00</u>
		6.03	8.28

Fourth

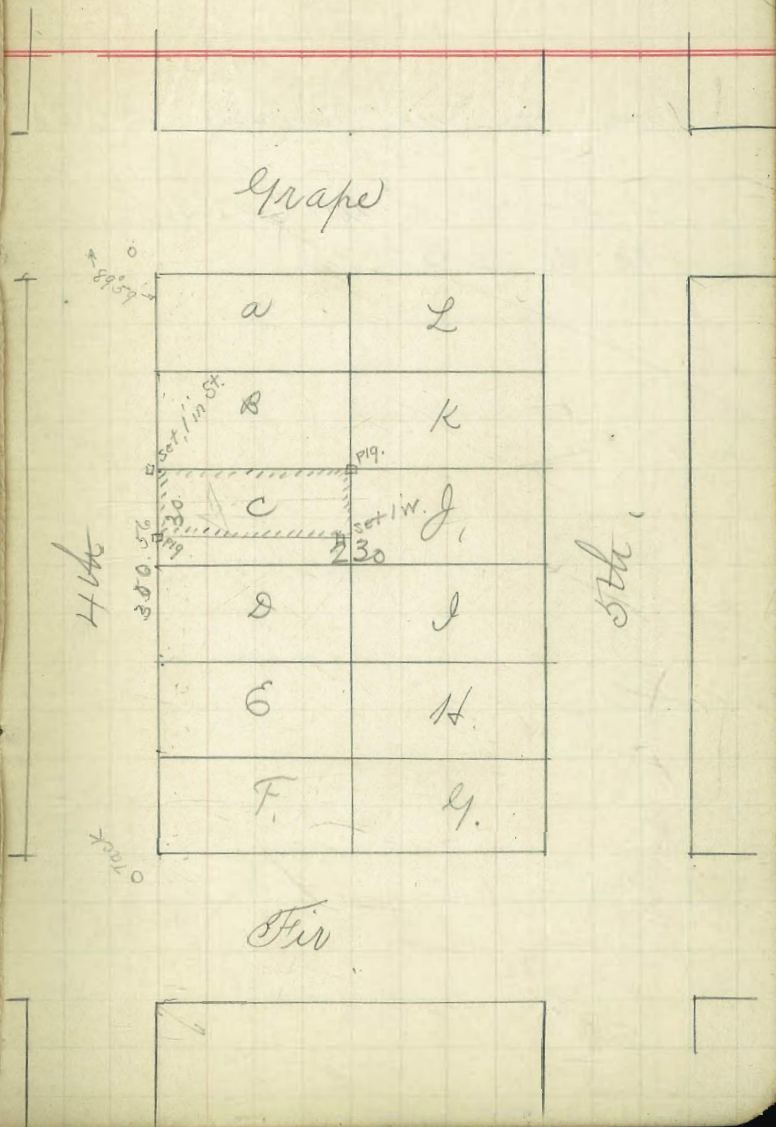


✓ Nov. 9th 1900.

Survey for John Zakowski.

North 30ft. of lot C Block 230
Horton's addition

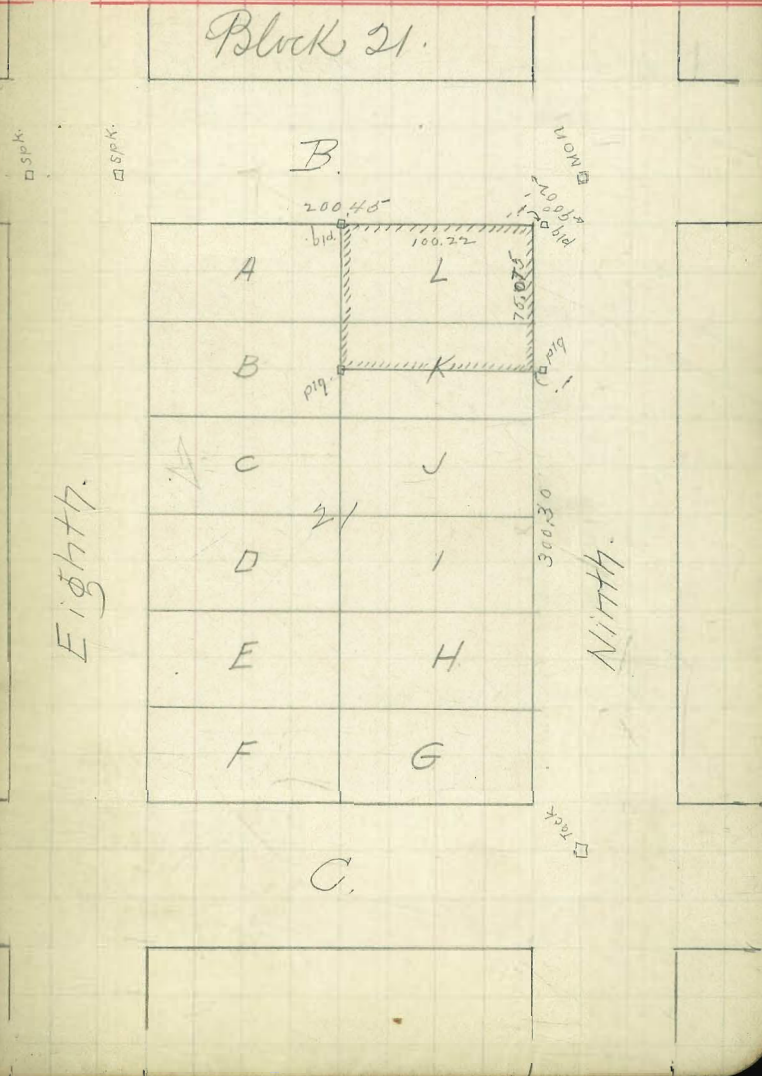
6



Nov. 10th 1900.

Survey for Miss Reimers -

Lot L + N² of lot K. Block
No. 21 - Horton's add.



Cor. of building. +	100.00	4.1
	6.80	5.0
	<u>106.80</u>	9.1
		106.8
		<u>9.1</u>
		97.7

100.5
<u>96.5</u>
3.5

5.8
<u>4.5</u>
10.3
106.8
<u>10.3</u>
96.5

4.5	50	
	x	527
5.0	25	521
	x	
4.5	x North line 527 A.	
	x	525
5.4	x	614
	x	604
6.0	x South line of 527 a.	

Dec. 3rd 1900.

Survey for Library Building

No. 1153 =

51.11
6.05
57.16
47.42
9.74

55.00
7.7
47.3

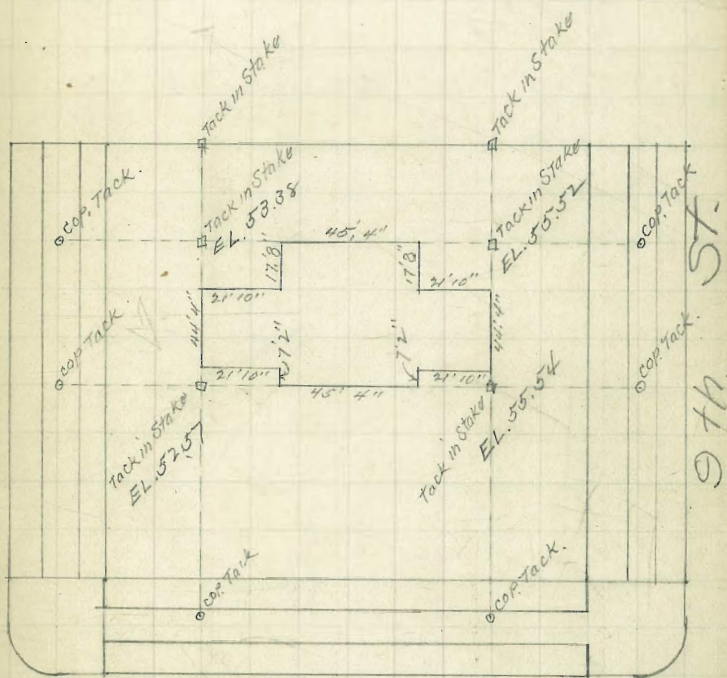
B.M. on Hydrant = 51.11

51.11
+ 6.18
57.29
I.H. 57.29
47.42
9.87
5.25
4.62

47.7
47.42

55.00
7.50
47.42

9



E St.

8th St.

9th St.

✓

Nov. 26th 1900.N^o 1152

A. B. Linderichsen

Survey of lots 11+12 Blk. 20

Bay View Homestead

d'Hermoncourt

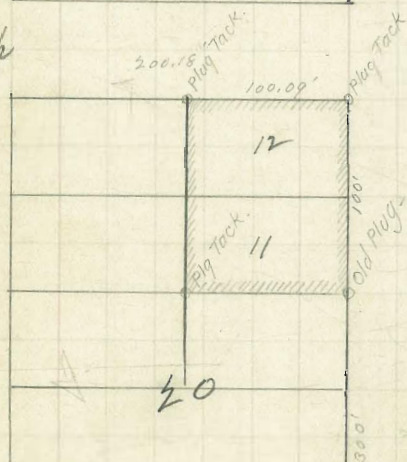
Cowell

Williams

10 ✓

Ash

St.



187

A

St.

9

10

St.

Thurs

255.0

256.0

250.0

250.0

Maple

249.0

249.0

3rd

237.5

237.5

Dec. 7th 1900

No. 1154

Survey & Grading for Lots
D, E & F. Block 1267 Horton
Add-

Made at request of

W. S. Hubbard

Owner = E. P. Gould,

202.58 B.M.

0.93 +

203.51

11.92 -

191.59

1.75 +

193.34

10.15 -

183.19

4.08 +

187.27

1.76

186.51

187.27

1.32

185.95 N.E.

187.27

12.27

175.00

187.27

5.08

182.19 N.W.

187.27

11.30

175.97

187.27

6.13

181.14 S.W.

187.27

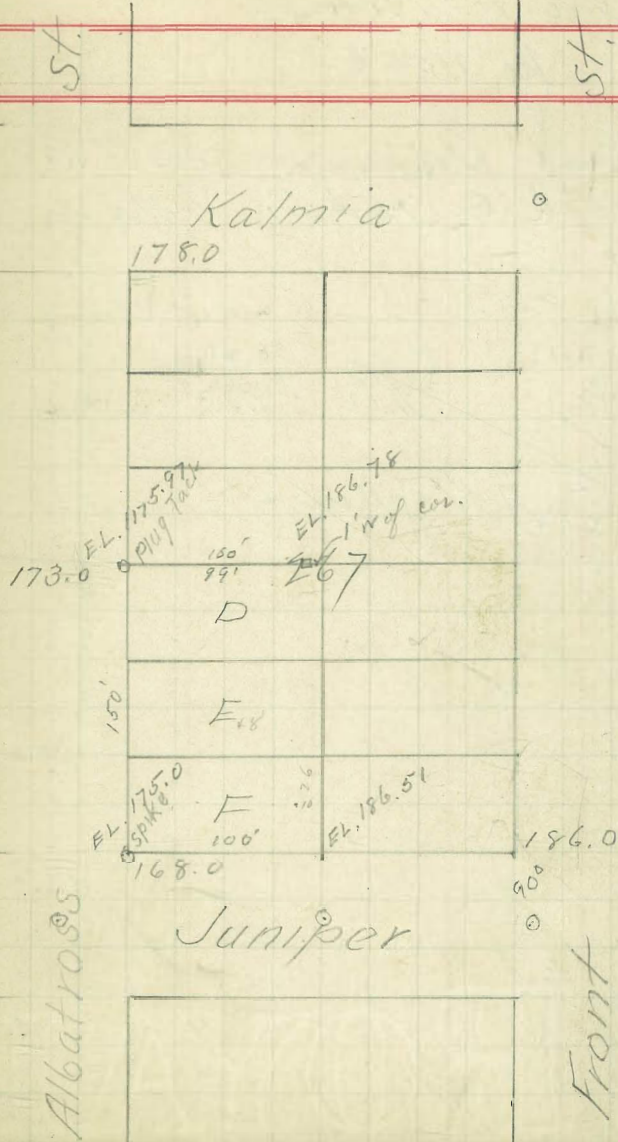
0.49

186.78

187.27

1.94

185.33 S.E.



✓ Dec. 7th 1900

No. 1155#

Curb Grades for lot B
Block G Horton Add.

33.60 B.M.

2.61+

36.21 H.I.

32.50

3.71

36.21

32.13

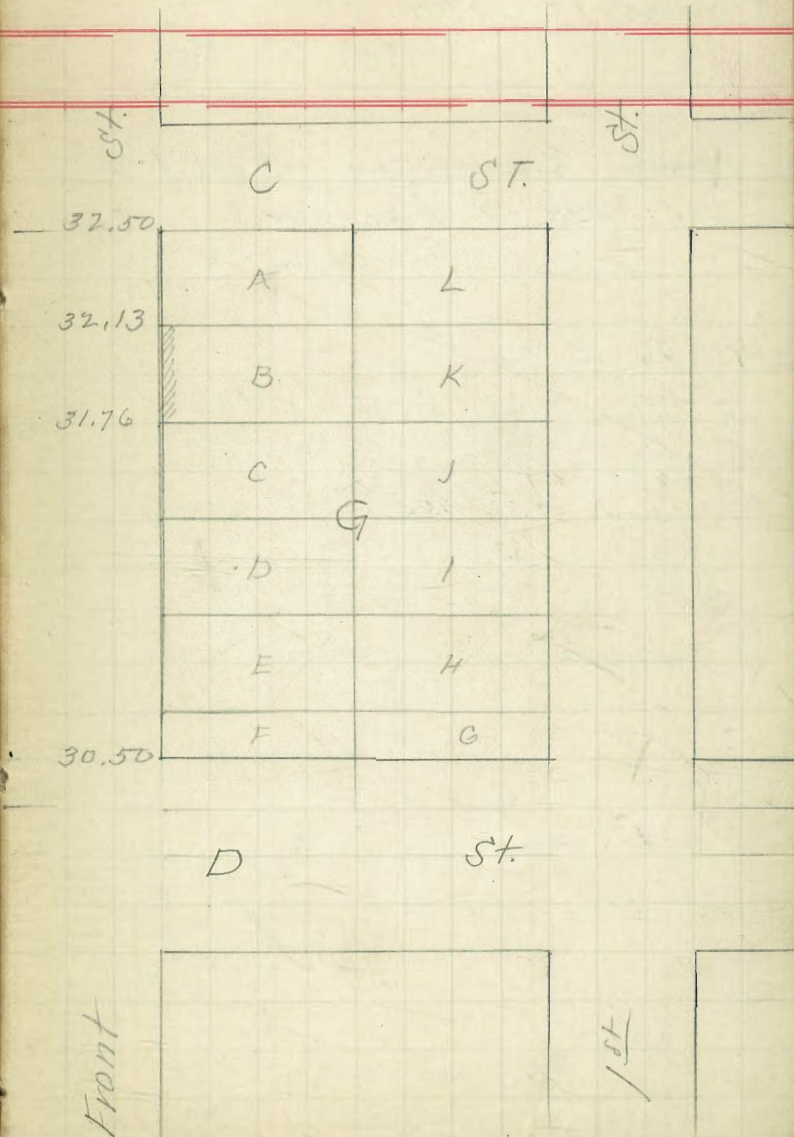
4.08

36.21

31.76

4.45

Dr. J. R. Gillen -



✓ *Nov. 12th 1900.*

*Lev. Grades for Lots 25 to 30
 in Blk 10. Kimball
 James Kimball 3212. J. St.*

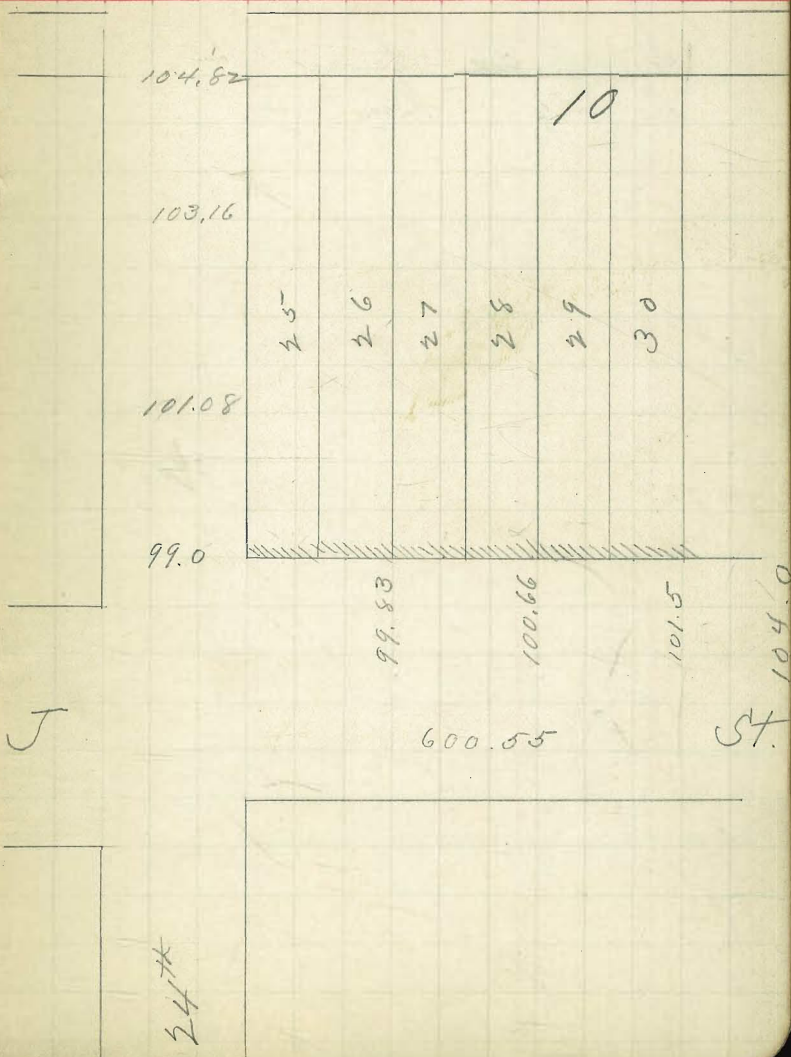
111.47 B.M.

<u>0.2</u>	111.67	111.67	103.33
111.67	<u>104.82</u>	<u>10.80</u>	<u>99.00</u>
99.0	6.85	<u>100.87</u>	<u>4.33</u>
<u>12.67</u>	<u>4.00</u>	<u>2.46</u>	
	12.85	103.33 H.I.	

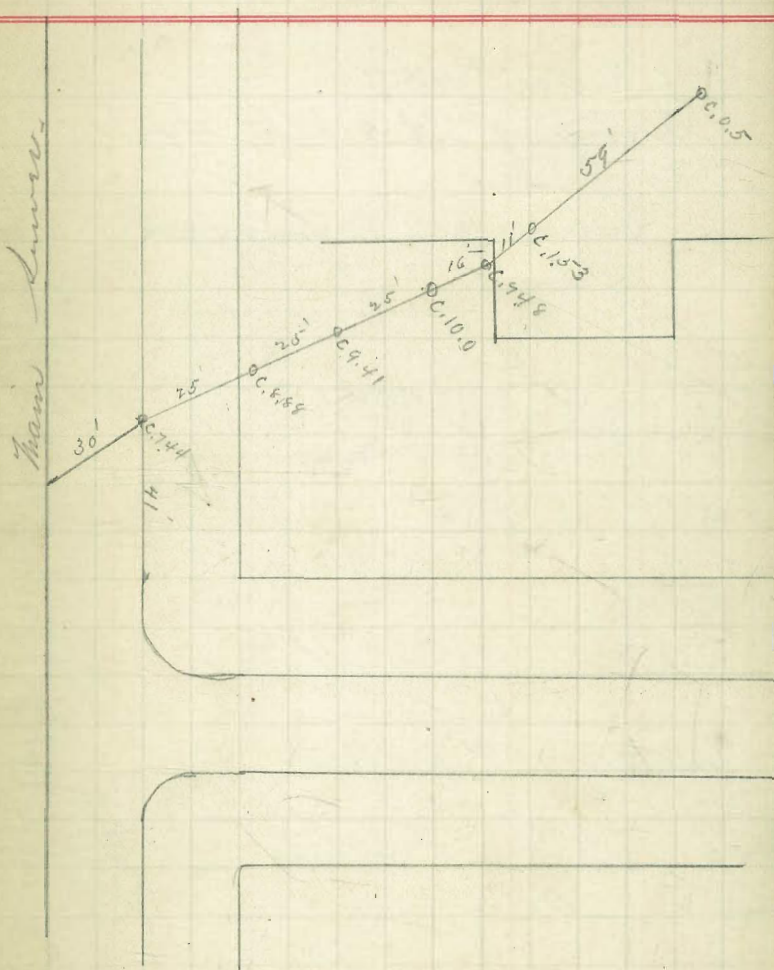
103.33	103.33	103.33
<u>99.83</u>	<u>100.66</u>	<u>101.50</u>
3.50	2.67	1.83

111.5

St.

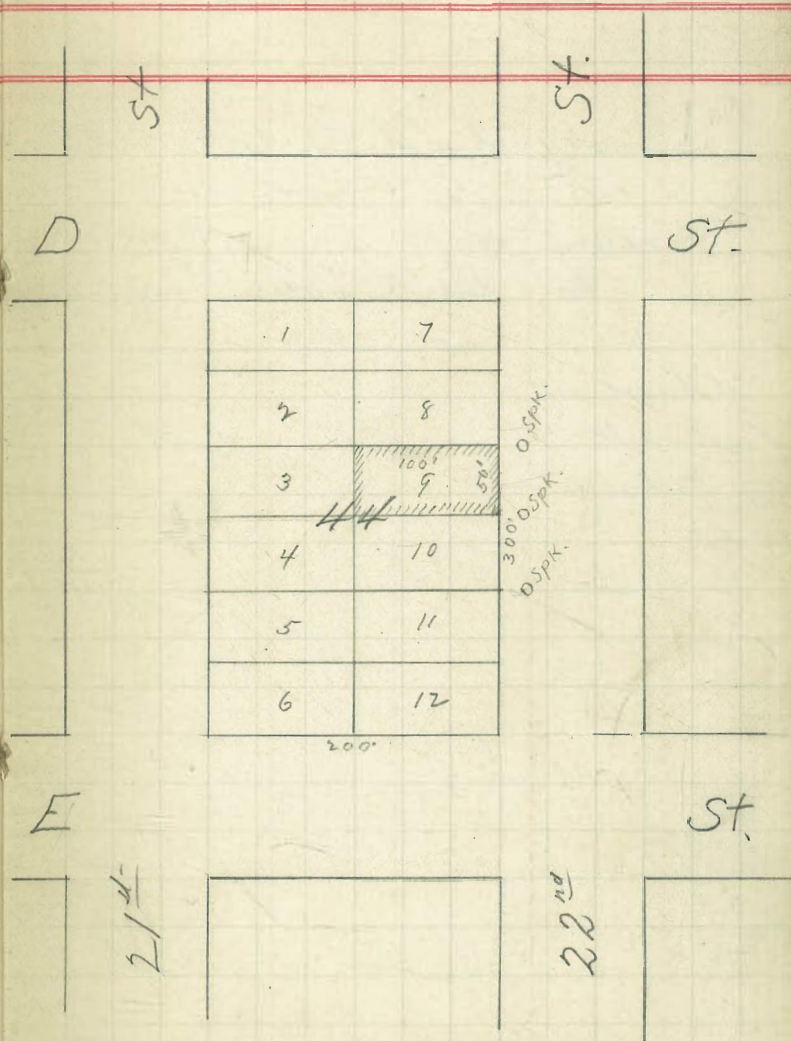


24th

Dec. 24th 1900.Survey for Sewer,
Library Site.

✓ January 2nd 1901.

Order #1157.
 Survey of Lot 9 Blk. 44
 Culverwell & Zaggart's
 Add-
 For Dr. Good-



Feb'y. 25th. 1901.

Survey of Lots Nos. 11 and 12 Block 12
of Reed + Hultab -
2 grade stakes -

d'Heineck
Williams
Kennisin

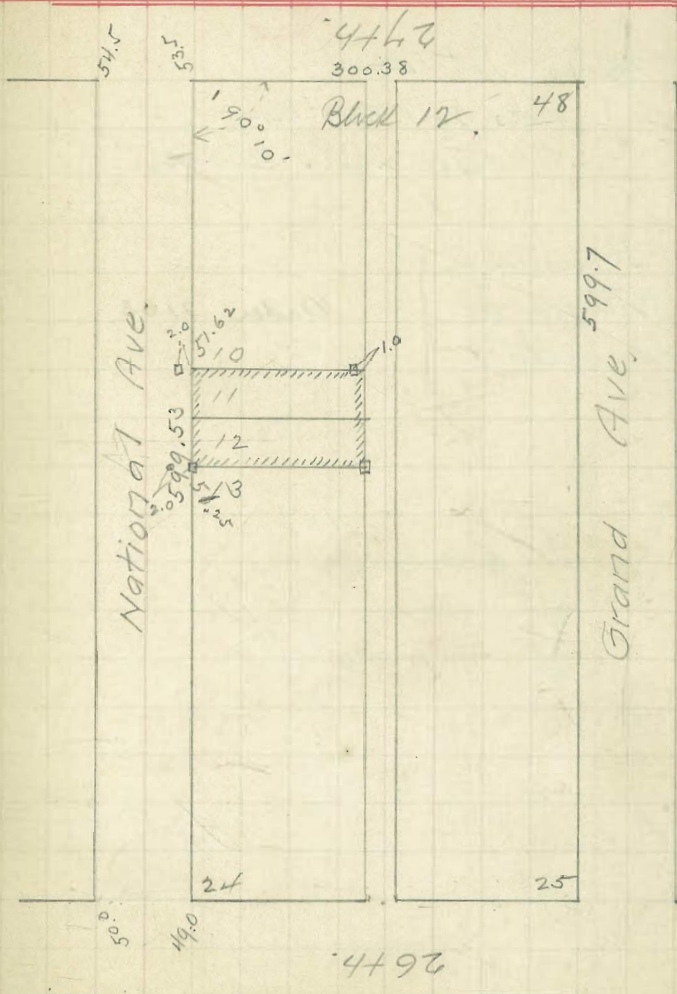
For Jas. A. Flinn

$$\begin{array}{r} 53.5 \\ 49.0 \\ \hline 4.5 \\ 24 \overline{) 100.0} \\ \underline{48} \\ 20 \\ 20 \\ \hline 0 \\ 10 \\ 10 \\ \hline 0 \\ 10 \\ 10 \\ \hline 0 \\ 10 \\ 10 \\ \hline 0 \end{array}$$

56.28	56.28
51.62	57.25
4.66	5.03

B.M. at 26th + Nat'l

51.15
+ 5.13
<hr/> 56.28



55.20

Feb'y 26th 1901 -

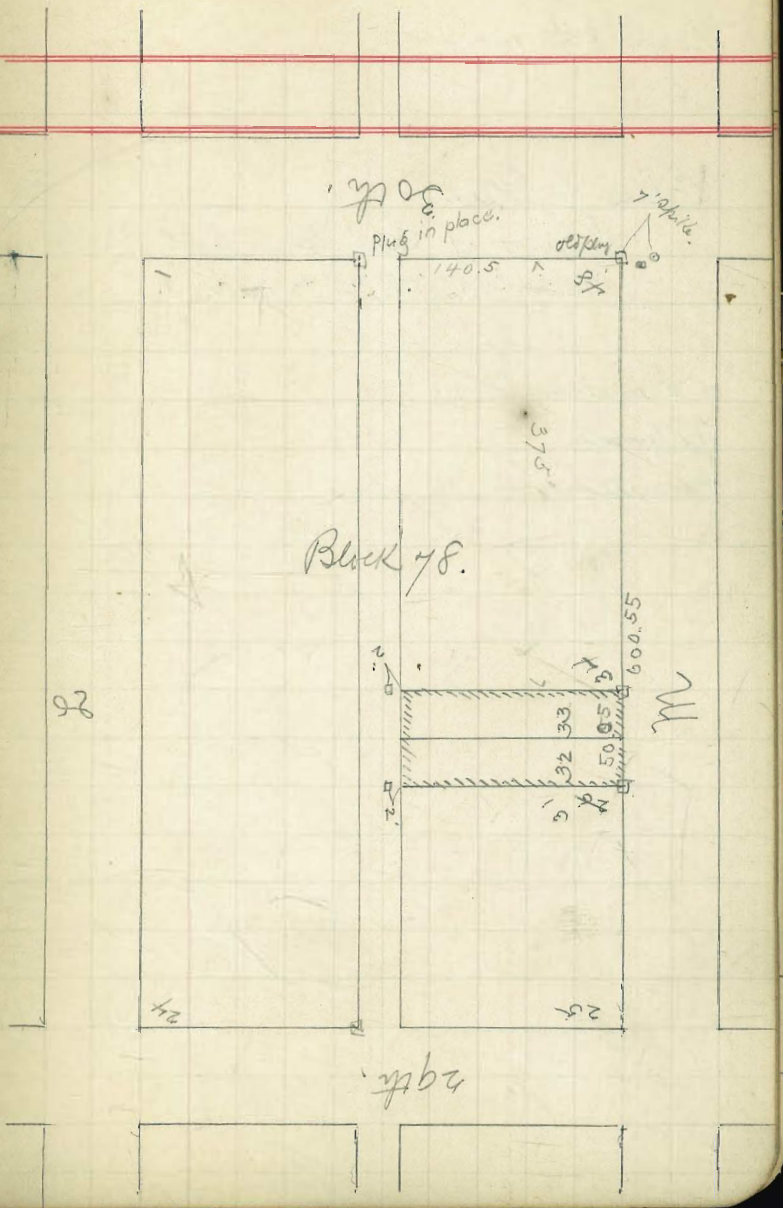
Charles Peterson
Lots 32 + 33 - Block 78
Seaman + Choates.

W. H. H. Cook }
Williams } Order 1163.
Kenniston }

54.5
5.0
59.5

57.0
3.0
60.0

55.009



March 8th 1901

Ella C. Reif

Survey of East Half of Lots K + L.

Block 103 - Katar's add.

d'Kemerout

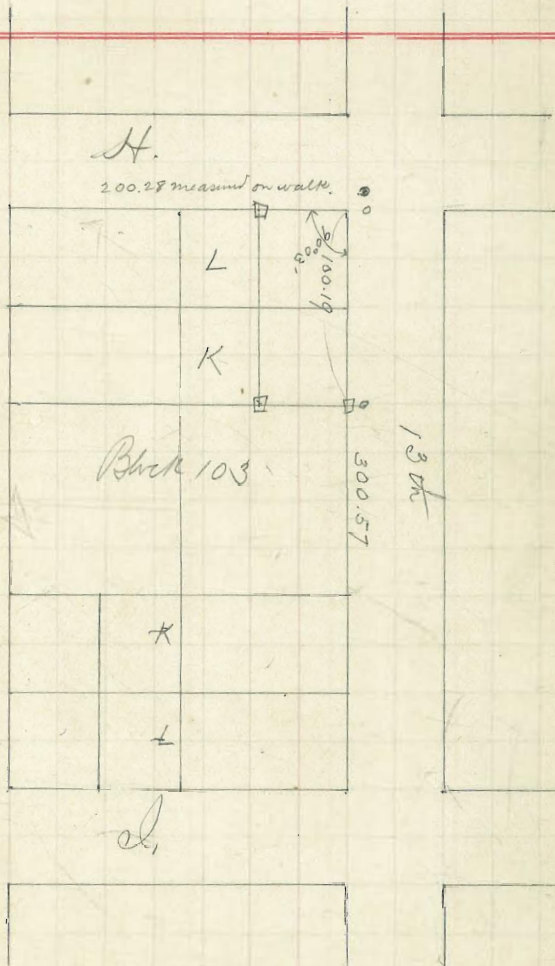
Williams

Kenniston

Order No. 1164

North
↑

1901



Christensen

Burt-Grades

$$\begin{array}{r} 70.5 \\ 66.0 \\ 300 \overline{) 4.50} \quad - .015 \\ \underline{3.00} \\ 1.50 \\ \underline{1.50} \end{array}$$

$$\begin{array}{r} 69.00 \\ .56 \\ \hline 68.44 \\ \\ 200 \\ 37.5 \\ \hline 162.5 \\ 1.5 \\ \hline 164.0 \\ 812.5 \\ 825 \\ \hline 2.1375 \end{array}$$

$$\begin{array}{r} .015 \\ 100 \\ \hline 1.500 \end{array}$$

$$\begin{array}{r} 37.5 \\ .015 \\ \hline 37.5 \\ 187.5 \\ 375 \\ \hline 5.36 \\ 56 \\ \hline 5.92 \end{array}$$

$$\begin{array}{r} 74.26 \\ 69. \\ \hline 5.36 \end{array}$$

$$\begin{array}{r} 74.26 \\ 68.44 \\ \hline 5.82 \\ 5.92 \end{array}$$

$$\begin{array}{r} B.M. \quad 71.97 \\ + \quad 2.39 \\ \hline 74.36 \end{array}$$

Thirty-First

71.5

61.0

300.0

65.0

National Avenue

5.04

100

68.75

66.0

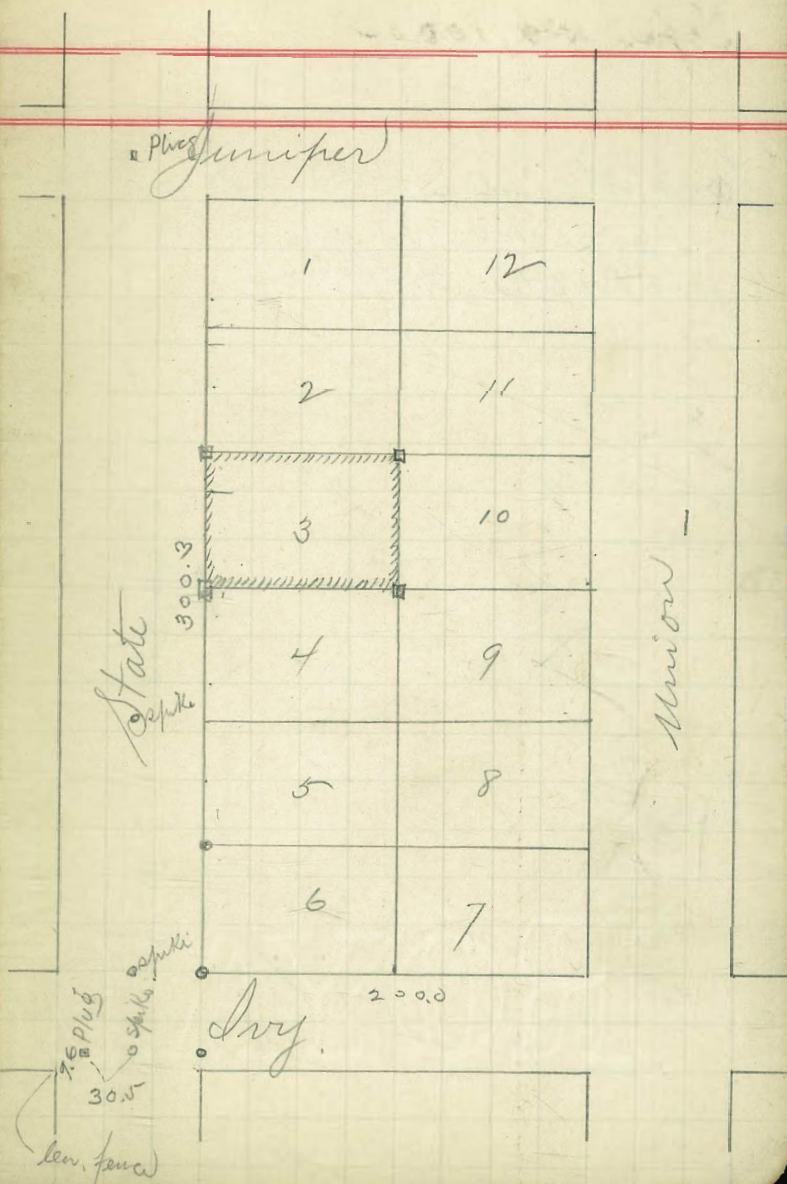
64.0

Thirtieth

April 4th 1901#

Geo. E. Bowles -
 Lot 3 - Block 60.
 Middletown

d'Hemecourt
 Williams
 Kennistow



Louis Mendelson
 Spade stakes for grading $\frac{3}{4}$ accuracy
 to Joint Resolution No. 1300 =

So. line City Park.

85.5

85.5

"A"

Street

18th St.

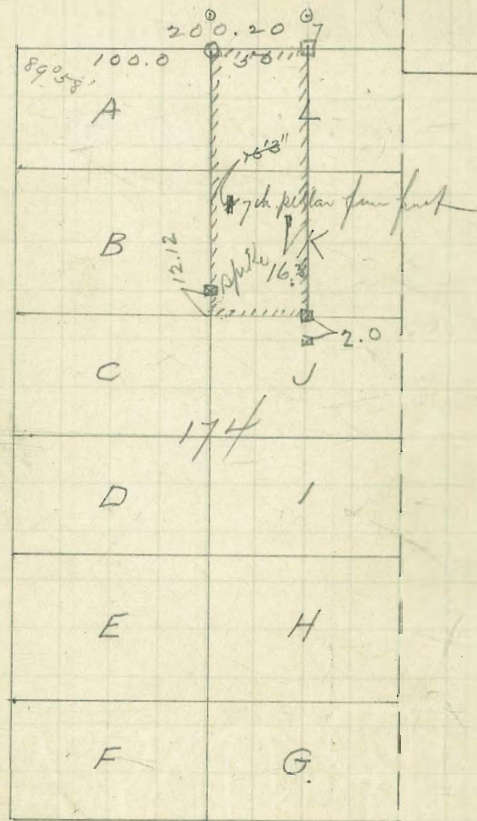
April 5th 1901-

Jacob Price

W^{1/2} of Lots K + L
Block 174 Norton's -

d'Hennecomb
Williams
Kenmore

H. St.



I. St.

April 13-1901-

Jan Mc Nair (H. Heffleman Prop)

1 grade stake lot "C" D
Block 266-

d'Heinecourt	202.58 = B.M.	
	<u>1.86</u>	
Crowell	204.44	
	<u>10.70</u>	196.01
Williams	193.74	<u>192.5</u>
	<u>2.27</u>	3.51
	196.01 = H.I.	
	<u>180.67</u>	
	5.34	

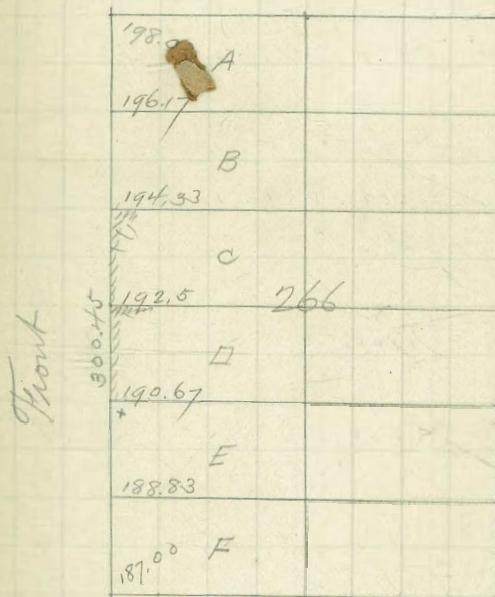
Order No. 1171

1970.00

198.00

Kalnia

1970.00



186.00

186.00

187.00

Juniper

April 17/1901.

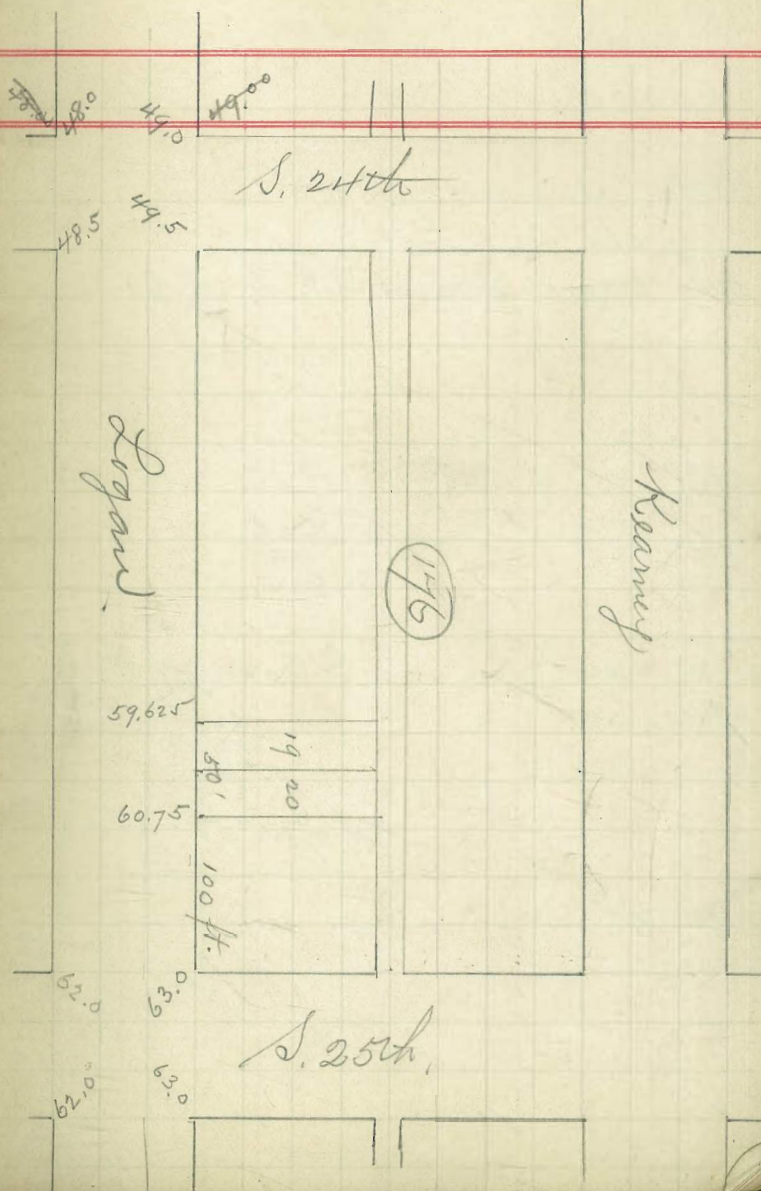
Jos. Kelley -
1 stake in front of Lots 19 + 20
Block 176 - S. + T. Add. #

Mr. Hefty (owner)
met Soda Works on Logan #
Permit No. 29 #

B.M. Logan at No. 25th = 65.36
+ 0.57
214 65.93
59.62
6.31

65.93
60.75
5.18

Order M. 1172



April 26/1901

d'Heme court
Williams
Kenniston

a-55
c-52

30

Jan McNair - (Henry Turkin.)
Circuit No. 30.

4 stakes for curb grades.

B.M. 284.69
I.H. 288.90
0.33

Est. B.M. at S.E. corner
of Hk. + Walnut.
Middle of Hydrant

→ = 289.57 - 288.57
I.H. 291.41

~~291.41~~
~~287.60~~
4.41

B.M. = 288.57
I.H. 291.63

291.63
287.
4.63

291.63
286.26
5.57

291.63
285.53
6.10

May 17/1901

Order 1175

290.63
285.00
5.63

B.M. 288.57
I.H. 290.63

same as above for corners. 2 stakes at Hk + Upas -

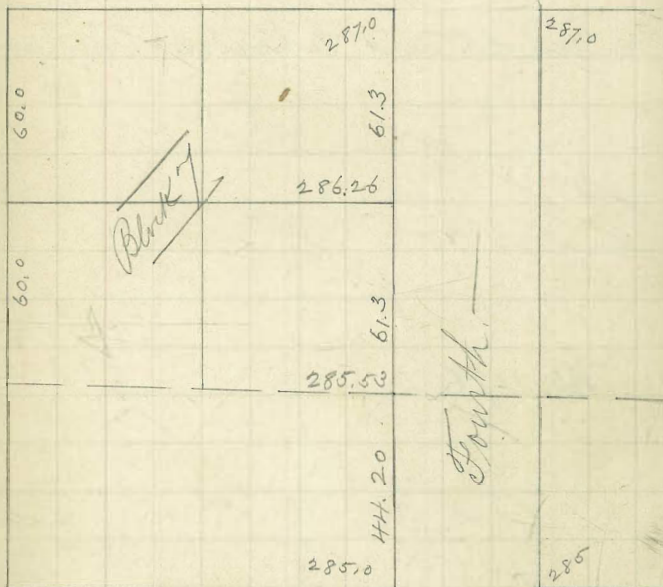
Order No. 1179

d'Heme court
Williams
Kenniston

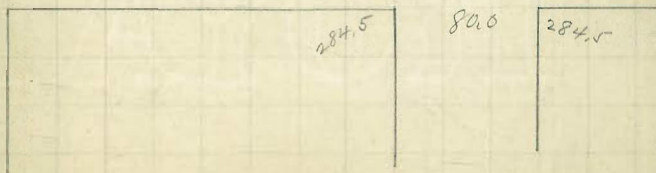
Walnut

0 56' 5 190

80.0



Upas



May 3rd 1901

Survey of Lots 13-14-15-16
Block #41

Arnold and Choates Add.

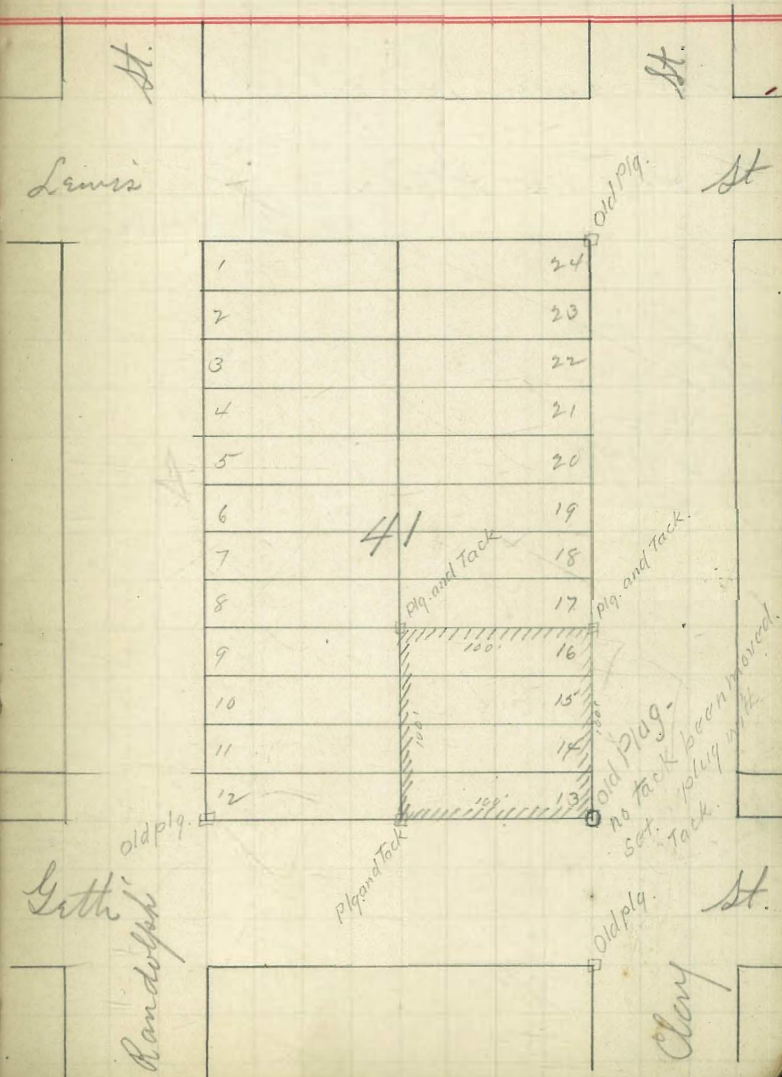
for Emma Roberts.

Cumell

Halliams

Kenniston

No. 1176



Crowell
William
Kinnison

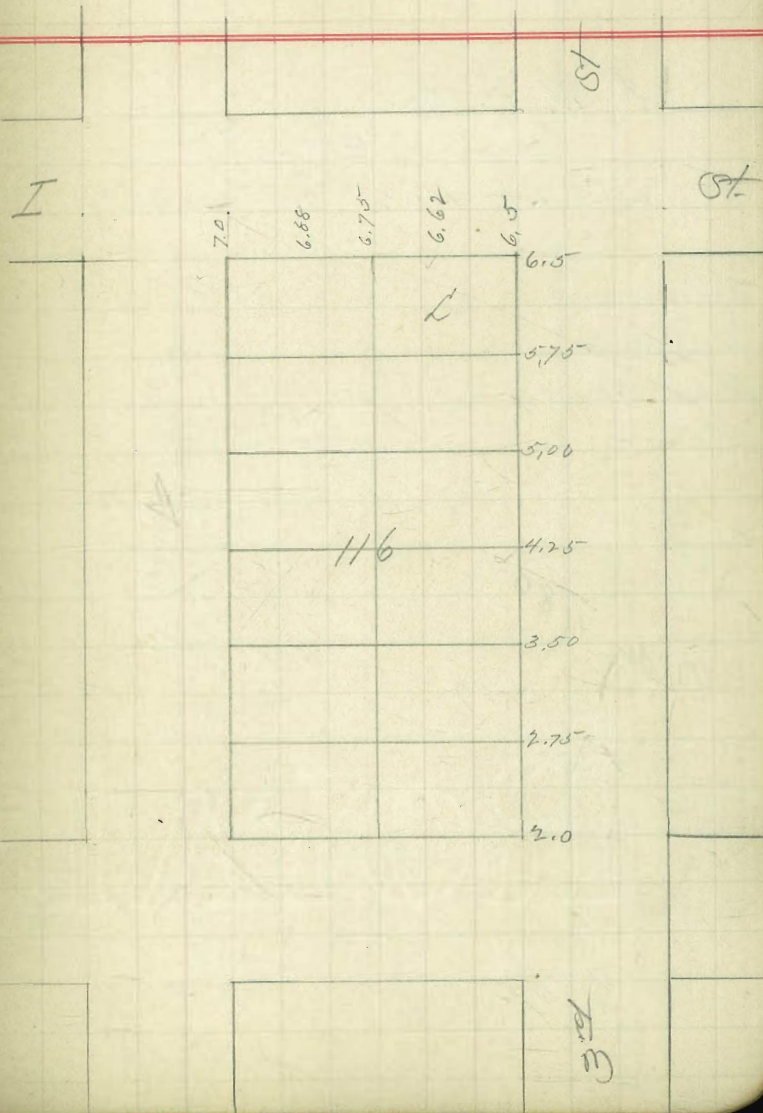
May 6th 1901

Cont. grades for Lot L

Block # 116 Horton
Jno. Engstrom

8.38 = B.M.	11.53	11.53	11.53	11.53
<u>3.15</u>	<u>6.73</u>	<u>6.62</u>	<u>6.5</u>	<u>5.75</u>
11.53 = H.I.	4.78	4.91	5.03	5.78

No 1178.



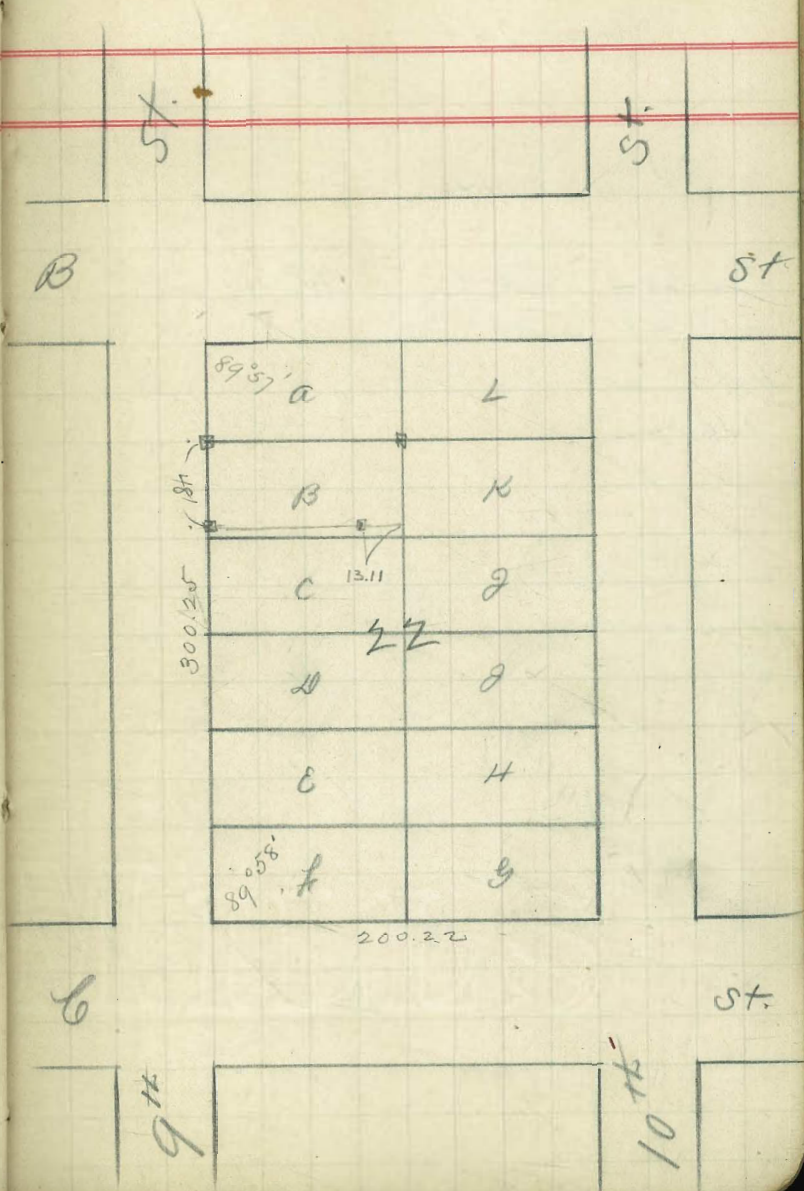
May 24th 1901-

J. W. Walker-

Survey of No. 48 feet of Lot
B, in Block No. 22 - Anton's add,

d'Home court
Williams
Kinniston.

Order 1180



May 29th. 1901-

Dr. Powers.

Survey of West line of lots G and H,
in Block No. 158. Norton's add, and West
line of lot 10 - Block 13, Carruth's
Add.

d'Henne court
Williams
Kenniston

Order No. 1181.

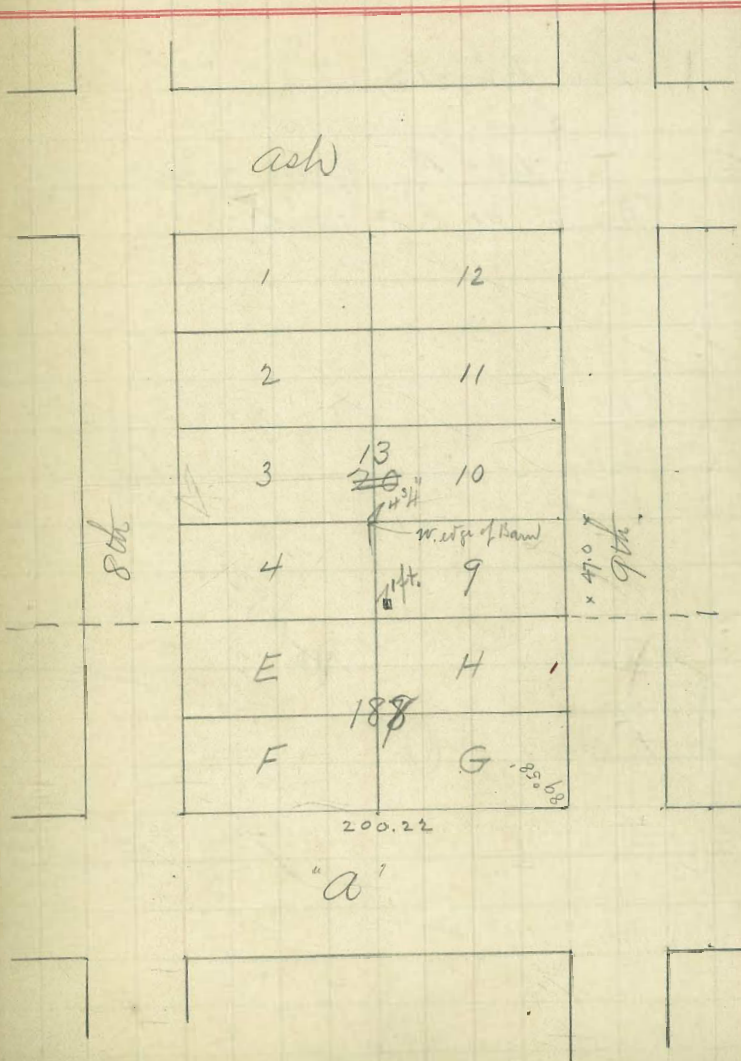
$$\begin{array}{r} 56 \\ -42 \\ \hline 9 \\ 107 \frac{3}{4} \end{array}$$

$$\begin{array}{r} 42 \\ 65 \\ \hline 107 \frac{3}{4} \end{array}$$

$$\begin{array}{r} 65 \\ 42 \\ \hline 107 \end{array}$$

34

$$\begin{array}{r} 97.00 \\ 53 \\ \hline 150. \end{array}$$



200.22

"a"

May 29th 1901

Peter Christiansen

2 Cent grade stakes on "a"
- lot A Block 3. Hutan's cart

Permit No. 32.

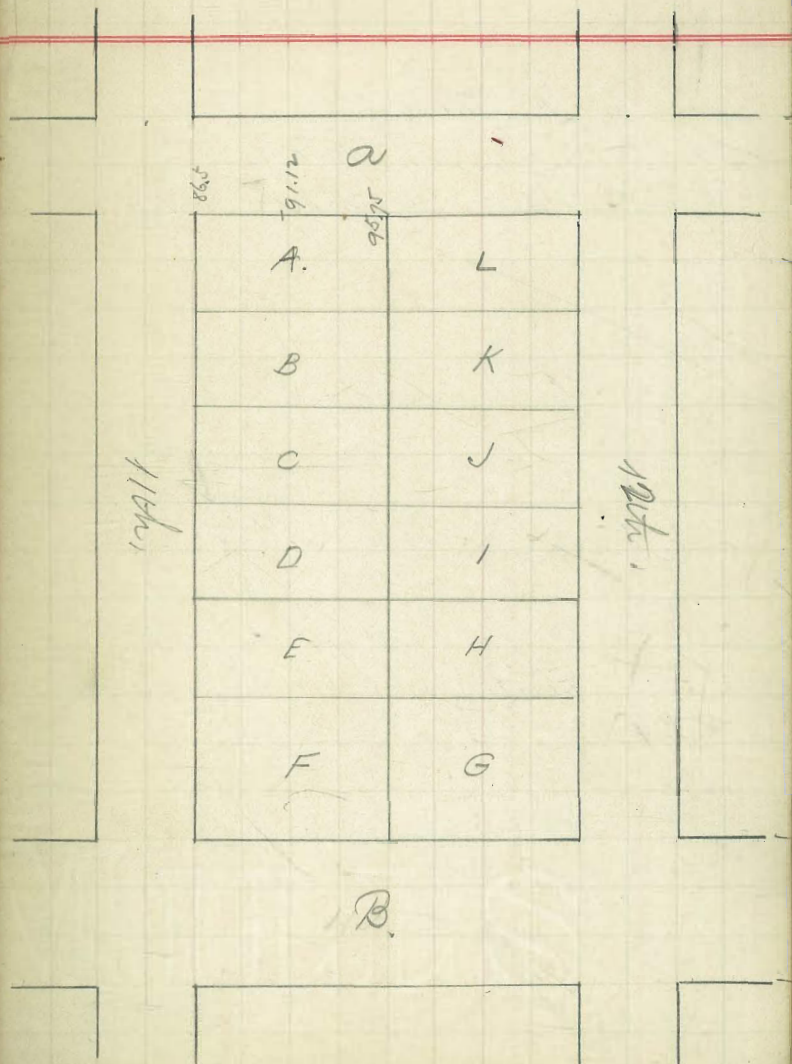
99.12
91.12
8.00

99.12
95.75
3.37

B₁₄ = 89.87
9.25
J.H. 99.12

d'Homecourt
Williams
Remington

Order No. 1182.



June 7th 1901

Peter Christensen

2 level grade stakes Lot 4, B. 185,
Hatas' add,

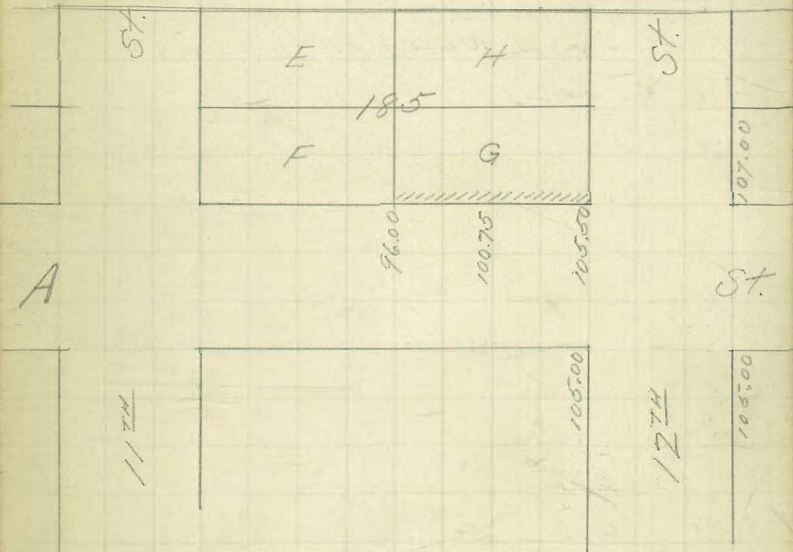
B.M. =	107.37
+	3.29
I.H.	110.66
-	9.91
F.P.	100.75
+	2.86
	103.61

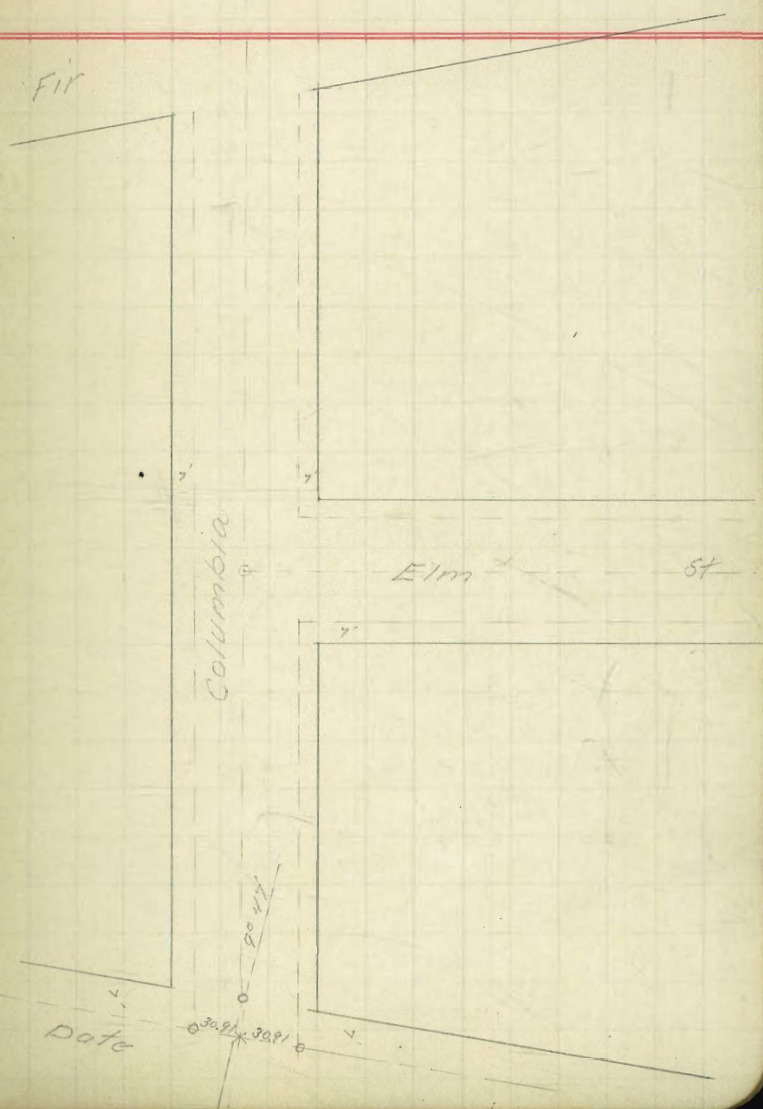
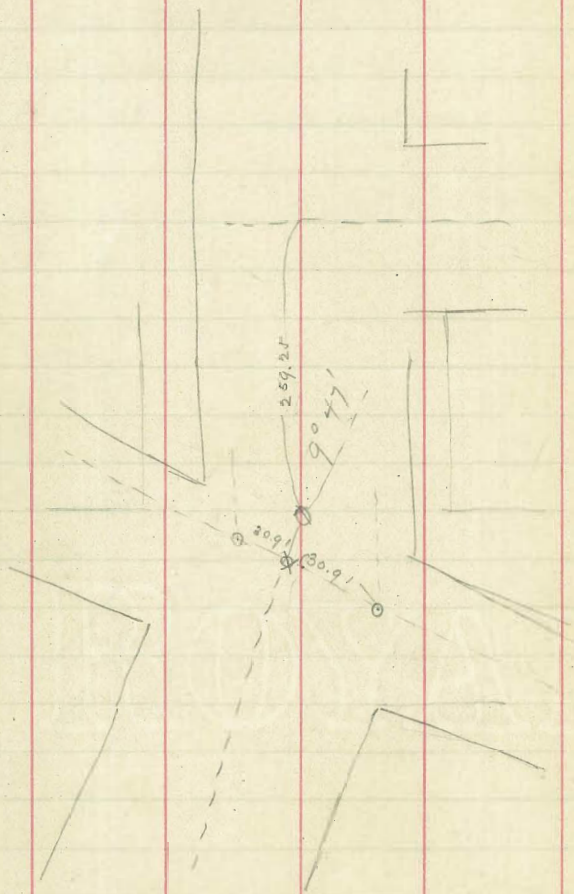
110.66	110.66
105.50	100.75
5.16	9.91

103.61
96.00
7.61

d'Heme comb
Remmiston
Chappel.

Order No. 1184





June 17th 1901Carrwell
Kinnison
HobsonLevels on N. St. 16th to 24th
Elevations taken on Linn Cuyamaca
and Eastern R.R. South rail

12.95 Elev. B.M.

Sta	Rod	Elev.
	9.17	22.12 = H.B.
E of 16 th	9.80	12.32
50' east 16	8.25	13.87
100' " "	6.50	15.62
150' " "	4.85	17.27
W. of 17 th	3.28	18.84
200' " 16		
Cut 17 th	2.25	19.87
E. lin 17 th	1.27	20.85
50' E of 17 th	0.15	21.97
T.P.	0.18	21.94
	9.82	31.76 = H.B.
100' E of 17 th	8.80	22.96
150' " "	7.82	23.94
W of 18 th	6.81	24.95
Cut "	5.95	25.81
E of "	5.28	26.48

Sta	Rod	Elev.
50' East 15 th	4.40	27.36.
100' " "	3.49	28.27
150' " "	2.62	29.14
W. lin. 19 th	1.76	30.00
Cut. of "	0.98	30.78
East " "	0.15	31.61
T.P.	0.10	31.66
	11.08	42.74 = 41.8.
50' E of 19 th	10.04	32.70
100' " "	9.10	33.64
150' " "	8.20	34.54
West of 20 th	7.11	35.63
Cut " "	6.30	36.44
East " "	5.54	37.20
50' E of 20 th	4.51	38.23
100' " "	3.59	39.15
150' " "	2.72	40.02
W. of 21 th	1.78	40.96
Cut. of "	1.01	41.73
East " "	0.40	42.34
T.P.	0.41	42.33

fill from this

Point - width

30ft.

fill

41.8.

v

fill to 25 Ea
of 20th cut

cut

cut

cut

Sta	Rnd	Elv	
	9.43	51.76 = H.B.	
50' E. 21"	8.55	43.71	Cont
100 " "	7.60	44.16	"
150 " "	6.71	45.05	"
W of 22"	5.91	45.85	"
Out of "	5.02	46.44	"
E " "	4.73	47.01	"
50' E " "	4.13	47.63	"
100 " "	3.80	47.96	"
150 " "	3.75	48.01	"
200 " "	3.55	48.21	"
250 " "	3.38	48.38	"
300 " "	3.10	48.66	Stt. cut on N side
350 " "	2.75	49.01	" fill " S "
400 " "	2.45	49.31	N.L. 24"

June 18-1901-

Peter Christensen.

2 Cont Spade stake.

d'Keme count
- Kennistow
Watson

BM, Nags Hyd, S.W. lev. =

242.75
+ 7.43
I.H. 250.18

250.18 250.18
242.50 244.08

7.68 6.10

250.18 250.18
245.67 247.25

4.51 2.93

Order No. 1184-

57.	253.5	57.	254.5
Maple		H.	
	152.0		253.0
a	L		250.41
b	K		248.83
c	J		247.25
d	I	285	245.67
e	H		244.08
f	G		242.5
Laurel		H-	
37	241.00	4	242.0

Cowell
Kammerton
Falcon

June 19th 1901.

Survey of tract in N.E. 1/4
of Purple Lot 1151.
For Mr. Furlong.

June 20th 1901

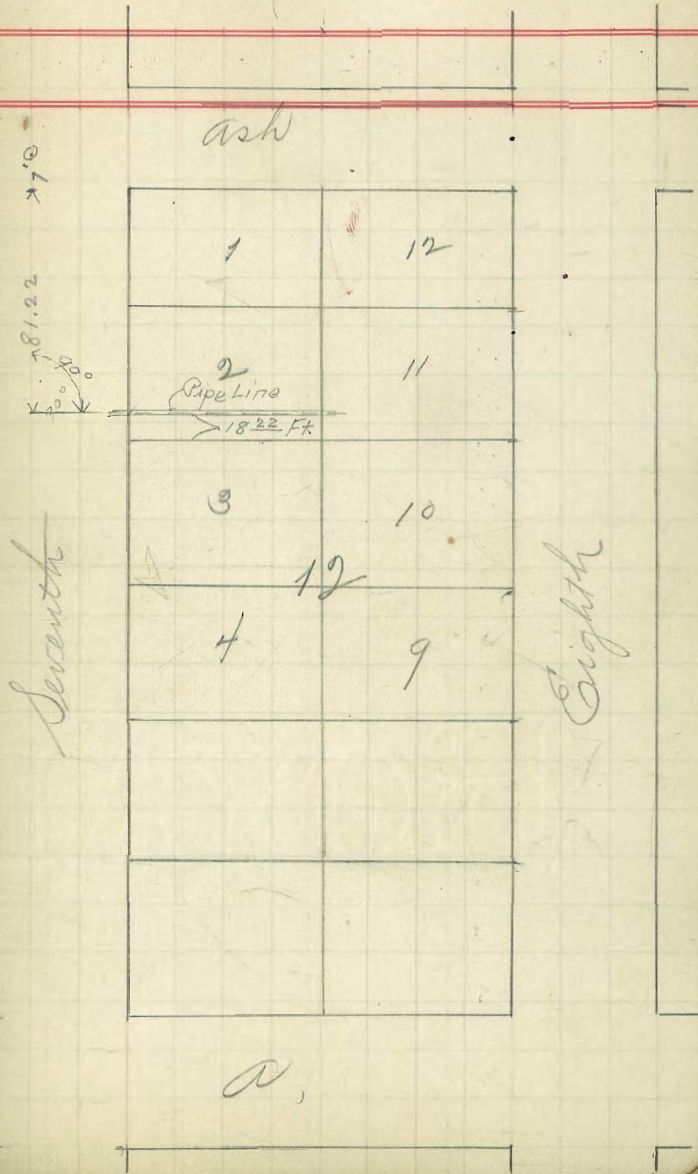
Bay View Homestead, Block 12,
 Survey for description of
 Right-of-Way for pipe line from
 S. C. M. Co's tank to the east line
 of 7th street.

d' Hencourt
 Kennistown
 Watson

100.
 81.22
 18.78

88.22
 7
 81.22

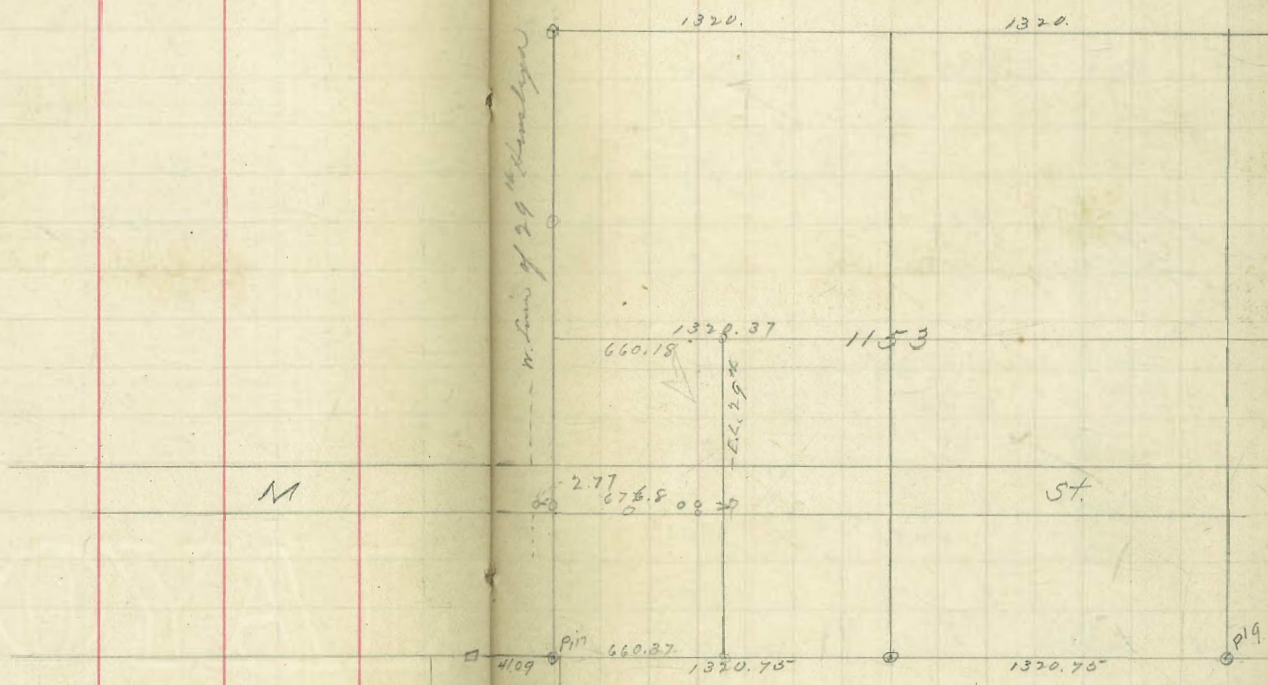
43



158.35
203.30

230.21

44



--- n. line of 29th Street

28th St.

4 level grade stakes
 B.M. S.E. cor. 3d + J =

$$\begin{array}{r}
 8.38 \\
 + 1.60 \\
 \hline
 9.98 \\
 \text{D.H.}
 \end{array}$$

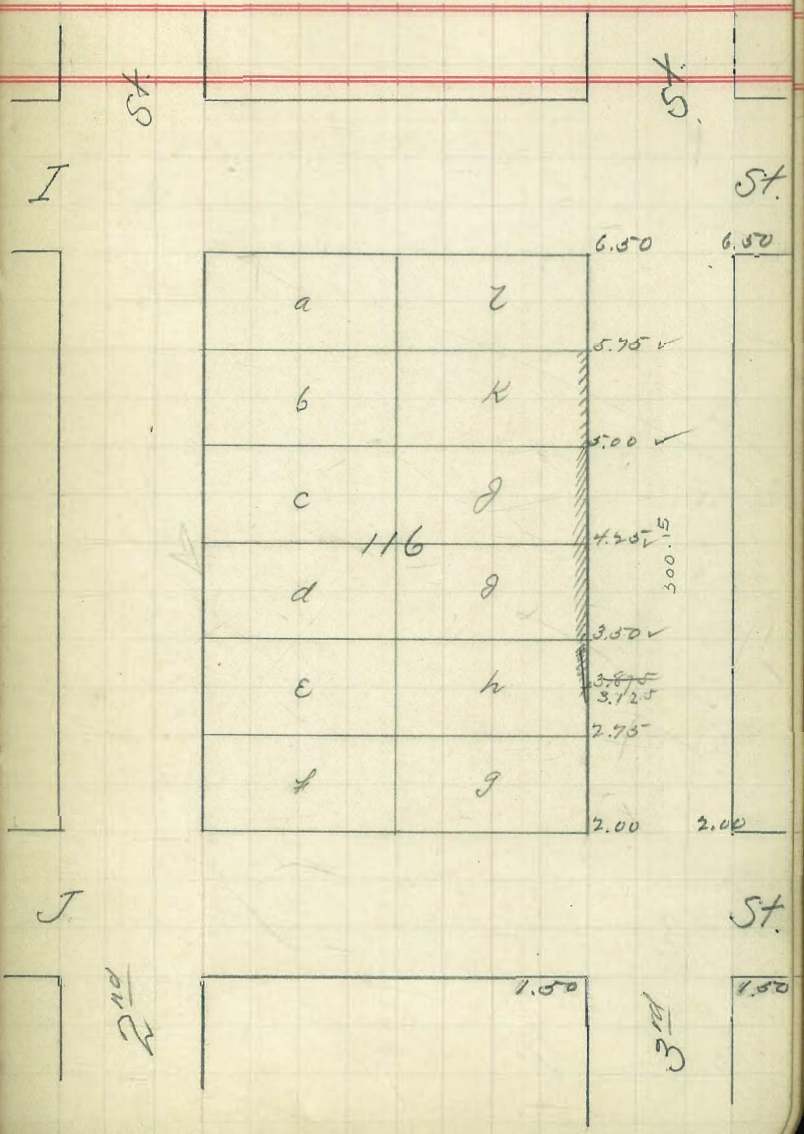
$$\begin{array}{r}
 9.98 \\
 5.75 \\
 \hline
 4.23
 \end{array}
 \qquad
 \begin{array}{r}
 9.98 \\
 5.00 \\
 \hline
 4.98
 \end{array}$$

$$\begin{array}{r}
 9.98 \\
 4.25 \\
 \hline
 5.73
 \end{array}
 \qquad
 \begin{array}{r}
 9.98 \\
 3.50 \\
 \hline
 6.48 \\
 3.8
 \end{array}
 \qquad
 \begin{array}{r}
 9.98 \\
 3.12 \\
 \hline
 6.86
 \end{array}$$

$$\begin{array}{r}
 10.12 \\
 5.12 \\
 \hline
 5.12
 \end{array}
 \qquad
 \begin{array}{r}
 10.12 \\
 4.25 \\
 \hline
 5.87
 \end{array}
 \qquad
 \begin{array}{r}
 8.38 \\
 1.74 \\
 \hline
 6.64
 \end{array}
 \qquad
 \begin{array}{r}
 8.38 \\
 1.74 \\
 \hline
 6.64
 \end{array}$$

$$\begin{array}{r}
 10.12 \\
 3.40 \\
 \hline
 6.72
 \end{array}$$

$$\begin{array}{r}
 8.50 \\
 5.97 \\
 \hline
 2.53
 \end{array}$$



Beech

St.

1	6
2	5
3	4
4	3
5	2
6	1

291

6 months

1.800

Ash

Atlantic

California

St.

St.

St.

July 12th 1901

Bonwell
Williams

Check Levels in 25th St.

L. to N.

Stat.	B.S.	I.S.	I.H.	Elev.
160.10 =	B.M. S.W. cor 23 rd + dl.			160.10
	11.91		172.01	
	11.29	0.23	183.07	171.78
		8.92		174.15 B.M.
	9.08	0.29	191.86	182.78
		3.48		188.38 B.M.
		4.53		187.33 " "
	1.16	3.48	189.54	188.38
	3.69	6.94	186.29	182.60
f. St.		2.17		184.17 Top
Cent. N.W. cor		5.74		180.55
N.E.		5.73		180.56
S.E. cor		6.50		
S.W. "		3.86		
N. of ally W		7.10		
S " " "		7.80		
N " " E		9.12		
S " " "		9.90		
E. St.	2.00	11.09	177.20	175.20
N.E. cor		4.16		
N.W. "		4.28		

N.W. cor 24 + dl

Hyd. S.W. cor 20th + dl.

old fence S.W. cor. 25 + dl

of post N.W. cor 25th + f.

Sta	B. S.	I. S.	O. N.	Elv.
S.W. cor.		6.00		
S.E. "		6.95		
ally	2.91	11.66	168.45	165.54
N.E. cor		4.13		
S.E. "		5.00		
N.W. "		2.67		
S.W. "		3.50		
N.W. cor <i>H. St.</i>		8.65		
N.E. " " "		10.78		
S.E. " <i>H</i> "		12.40		
S.W. " " "		13.80		
	1.79	11.89	158.35	156.56
	2.62	11.73	149.24	146.62
N.W. cor		3.85		
S.W. "		5.30		
N.E. "		3.30		
S.E. "		5.15		
	1.47	11.93	138.78	137.31
N.E. cor		5.22		
N.W. cor.		8.22		
S.W. "		10.65		

on Graded walk

ally

H St.
Foot of wall

Sta	B.S.	I.S.	I.H.	Elw	
S. E. cor		11.27			
	0.93	11.30	128.36	127.43	B.M.
N. E. cor		9.65			
S. E. cor		10.78			
	0.37	11.97	116.76	116.39	
	0.13	11.92	104.97	104.84	
N. W. cor.		3.25			
N. E. "		1.20			
S. E. "		5.77			
S. W. "		6.37			
	0.72	11.44	94.25	93.53	
N. W. cor		6.32			
S. W. "		8.23			
N. E. "		6.05			
S. E. "		7.15			
	0.65	11.91	82.99	82.34	
N. E. cor.		2.85			
N. W. "		4.00			
S. W. "		7.10			
		7.42		75.57	B.M.
S. E. cor		5.75			

S. E. cor. J. and 25th
Alley bet J + J.

J Street on graded walk

Alley bet J + K.

K St.

on spikes in ground S. W. cor 25 + K

Sta	B.S.	I.S.	O.H.	Elw.	
N. E. cor		10.40			
N. W. "		10.45			
S. W. "		11.40			
S. E. "		10.45			
	2.87	11.99	73.87	71.00	
N. W. cor		6.10			
N. E. "		5.05			
S. E. "		7.40			
S. W. "		9.40			
N. W. "		8.05			
S. W. "		9.85			
N. E. "		6.00			
S. E. "		7.40			
	1.63	11.38	64.12	62.49	B.M.
N. W. cor	+	1.63			
N. E. "		0.30			
S. E. "		2.43			
S. W. "		5.80			
N. W. "		6.00			
S. W. "		5.45			
N. E. "		4.90			

alley bet K + L

L. Street

alley bet L. + M.

N. W. cor. M + 25th
M. St.

alley bet M + N.

Sta	B. S.	I. S.	D. H.	Elw
S. E. cor		5.85		
N. E. " "		9.20		
N. W. " "		8.85		

N Street.

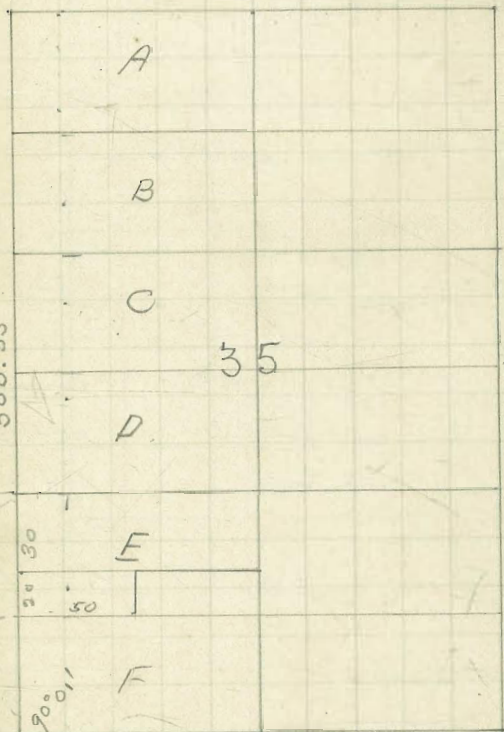
94.5

94.5
10.7
105.2

62.1
15.0
77.1

72
71
78

6.



624

624

8.

7/10/1901 - Levels to determine if
 Mrs. Odson and Schorn can connect property
 on West side of 3d betw Robinson and University
 with Rowen and alley betw 3d and 4th

BM S. E. cor. of 5th &			282.57	
	7.16		289.73	282.57
T.P.	6.18	2.16	293.75	287.57
T.P.	4.24	8.81	289.18	284.94
N.W. Cor. 3d & Thorn.		5.97		283.21
+50		5.84		283.34
1.		5.10		284.08
+50		5.07		284.11
2		4.70		284.48
+50		5.15		284.03
3		4.70		284.48
+50		4.20		284.98
4		4.30		284.88

beam not be done

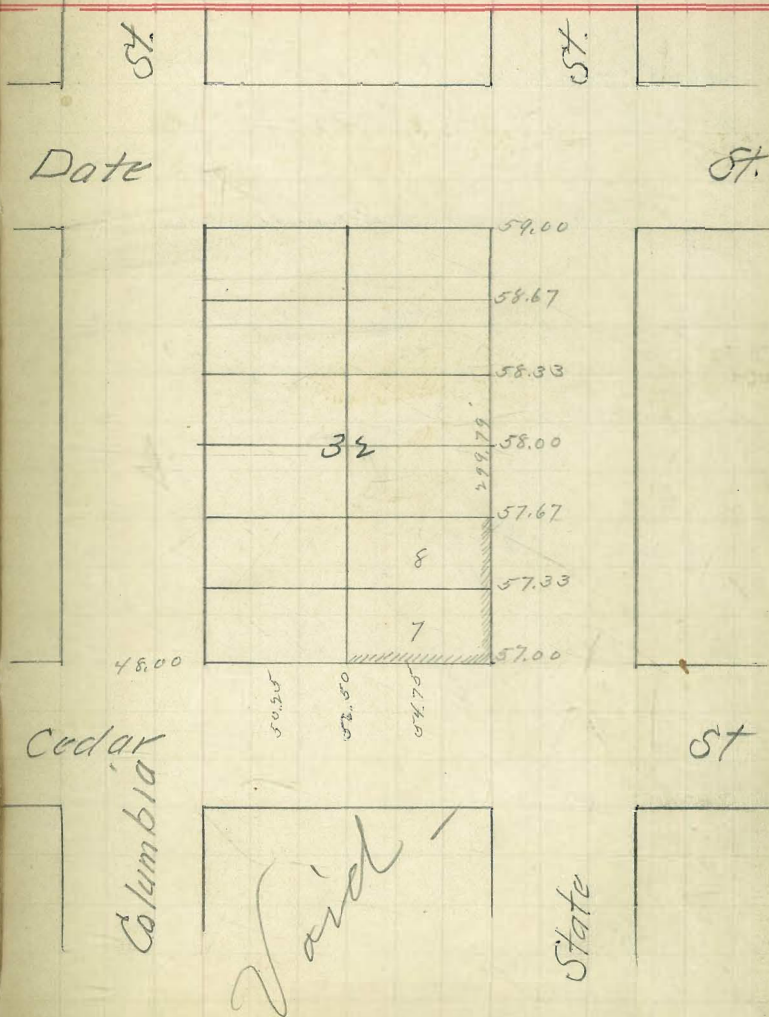
63.81 = B.M. S. E. cor. Oak & 4th				
0.26	63.57	63.57	63.57	63.57
63.57 = H.I.	57.33	57.00	54.75	57.50
57.67	6.44	6.57	8.92	11.07
5.90				

Aug. 12th 1901.

Cont. grades for Lots 7-8 Blk.

54

Peter Christensen



Aug. 13th 1901.

Cont. grades for Lots 546
Block #33 Middletown

Peter Christensen

63.31 = B.M.	64.21	64.21	59.00
0.90	59.33	59.00	5.71
64.21 = D.H.	4.88	5.21	64.11 = H.1
59.67			60.25
7.54	64.11		3.86
	61.50		
	2.61		

64.11
61.50
2.61

64.11

61.50

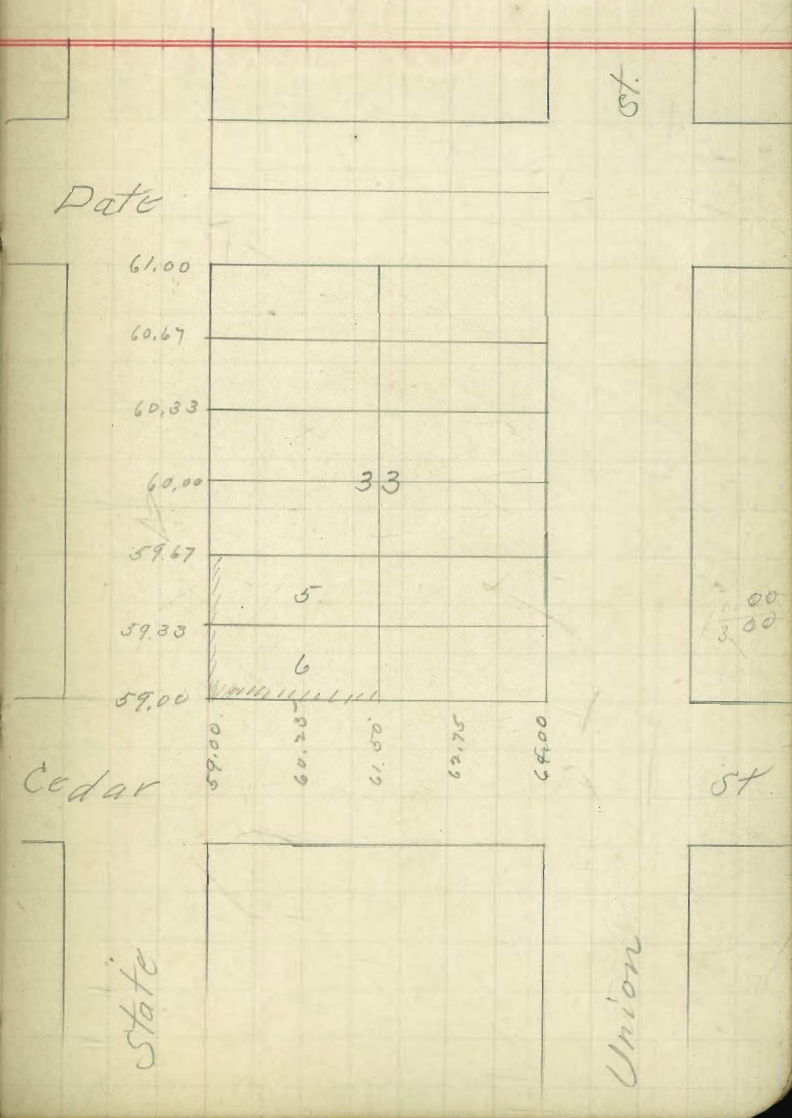
2.61

64.11

61.50

2.61

Oct. 12/1901



90.04

200.025

{d. Hamerout
Crowell
Williams
Hinckle

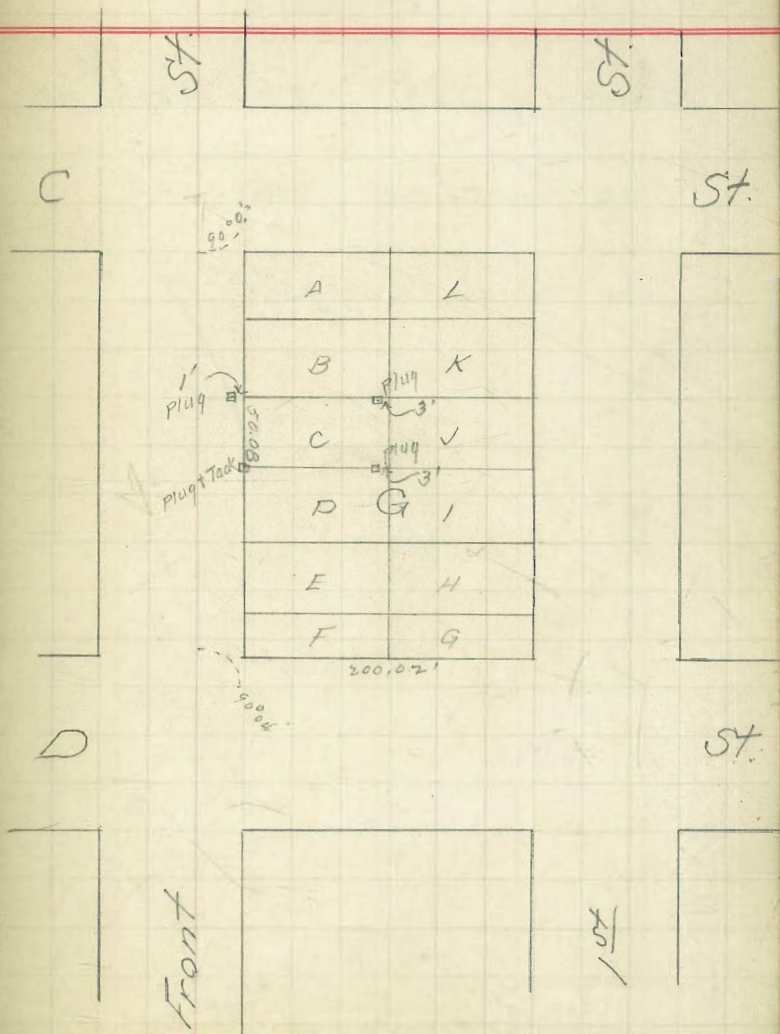
Sept. 10th 1901

Survey of Lot "C" Block "G"
Houston add.

Set N.W. cor. of Lot 1st West of
Main cor.
Set S.E. and N.E. cor. 3ft west
of Main cor.

97.0' on a line 10'16'

56



Cumwell
Williams
lectures

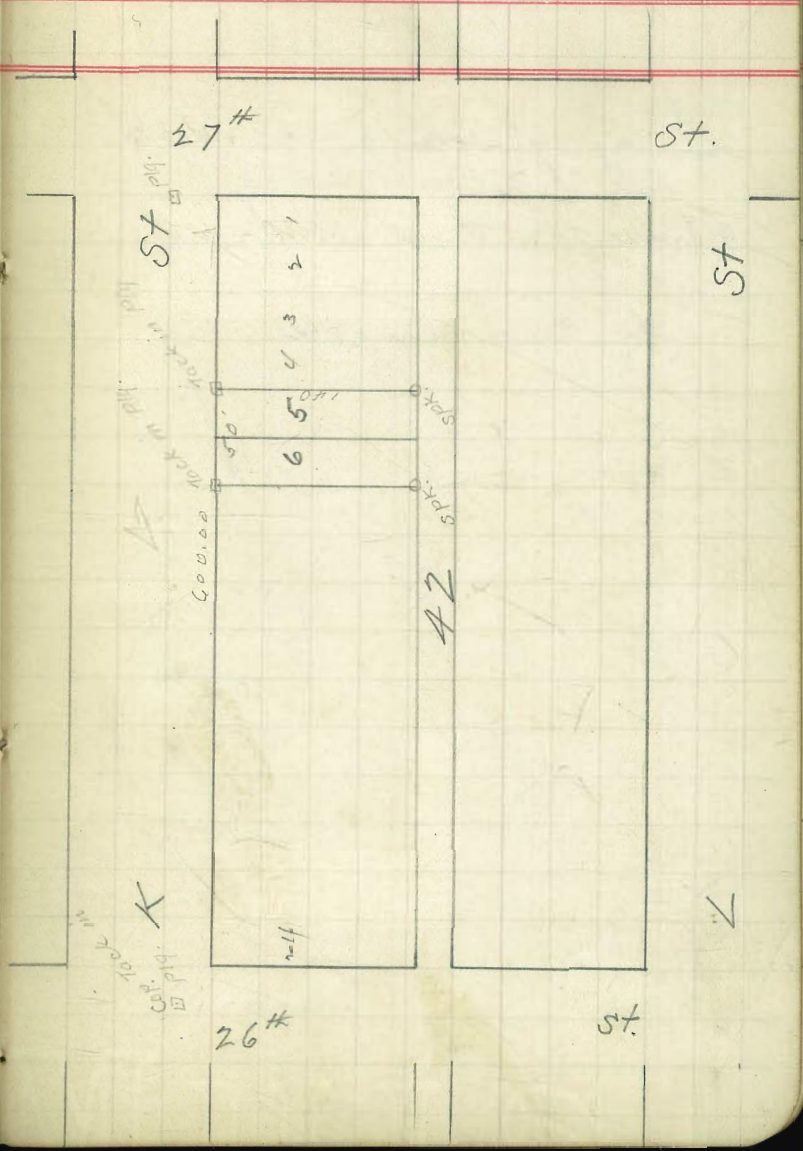
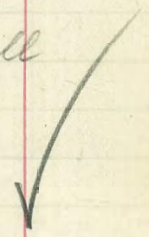
Sept. 12[#] 1901.

Order # 1186

Survey of Lots 5+6 Block # 42

Chas Finsley Add.

for C. S. Langell



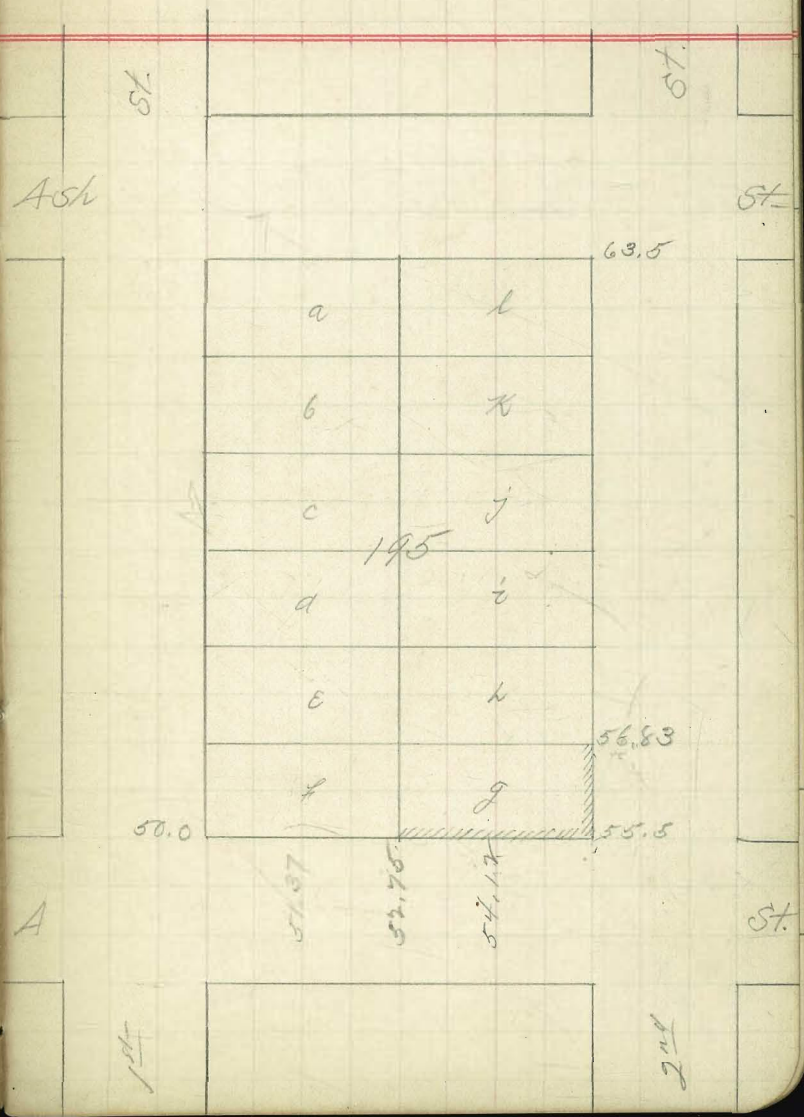
Hammes
Linnell
Horton
Daly

Oct. 29th 1901

Level grades for Lot G
Block 195 Hastings

6.25	56.38	50.13	B.M
56.38	56.38	56.38	
52.75	54.12	55.5	
3.63	2.26	.88	
55.5			
5.82			
61.32			
56.83			
4.49			

Christman



Nov. 6th 1901

d. H. M. Court
Lowell
Boston
D. D. Day

60

Lamb graders. For Lots A+L

Block 89 Hartman Add.

26.13
18.50
7.63

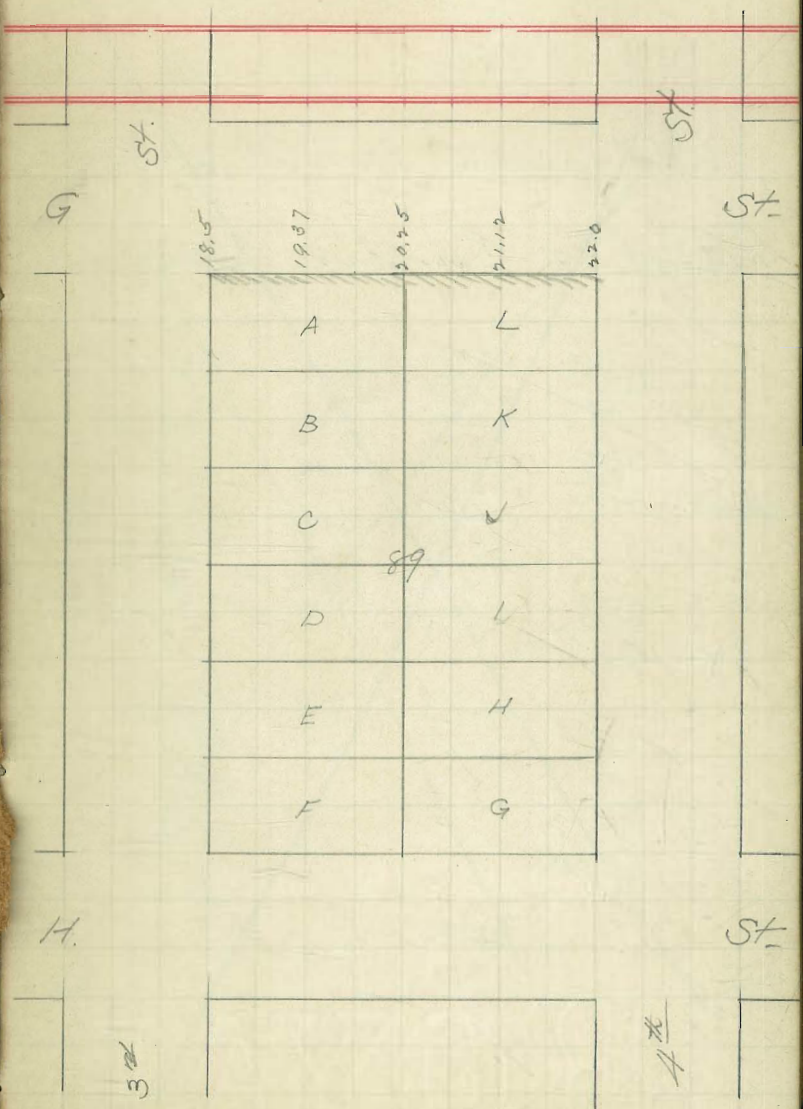
26.13
19.87
6.76

26.13
20.26
5.88

26.13
21.12
5.01

24.11 = 13.12
2.02
26.13
22.
4.13

Kelly



Nov. 8th 1901.

Harrison
Cyruswell
Lester
Dalby

61

Cont. grades for lots 4-5

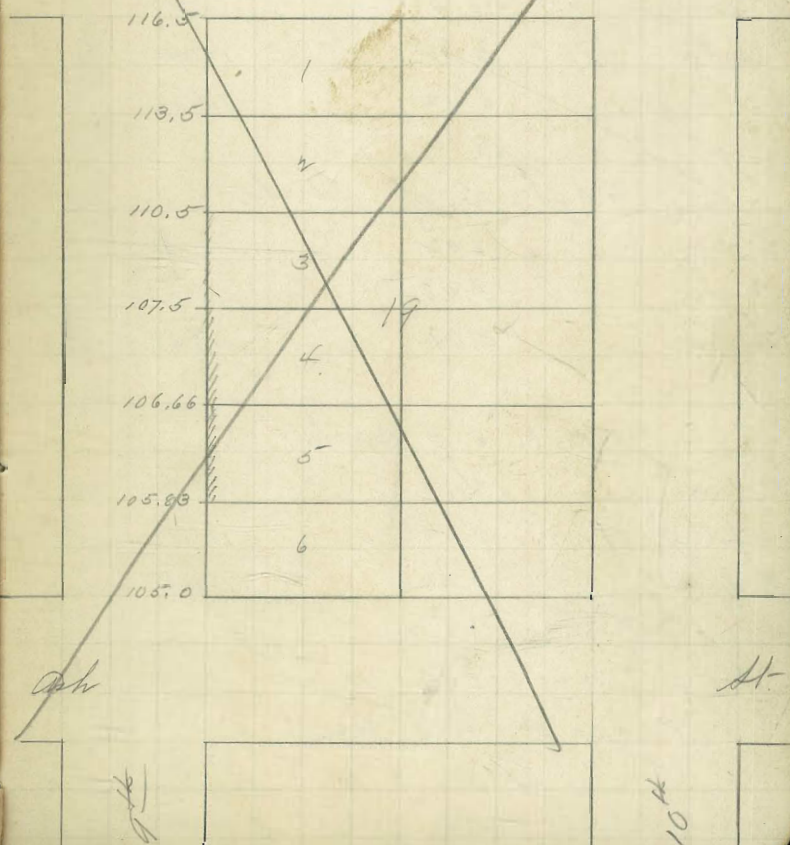
Block 19 Camthorn Pdd.

	112.16	83.35	113.07	120.00 = B.M.
	105.83	8.36	11.20	0.66
	6.33	91.65	101.89	120.66
		0.98	7.5	10.92
	112.16	70.70	102.14	110.34
	3.41	11.87	11.45	2.75
Top of post.	108.75	107.57	90.69	113.09 = O.H.
		0.68	0.95	107.50
		101.80	91.64	5.59
		10.7	8.30	
	113.08	112.16	83.34	a. & 9 th B.M. Hyatt
	4.33	107.65	(83.35)	
Top of post	108.75	chk 5.11		
		113.08	126.00	
		106.66	105.83	0.27
		6.42	7.25	120.27
				9.92
				1103.5
				2.73
				113.08 = O.H.

Painting

3 stakes

Burch



Nov. 13/01.

Cumell
Dalny

62

Levels on 9th St. Ash to Birch

Sta.	+	-	O.H.	Elev.
	0.58		120.58	120.00 B.M.
	South line Birch St.			
N. line	0.63			119.95
Center	2.95			117.63
E. line	4.42			116.16
	50 ft. S. of Birch.			
E. line	7.02			113.56
Center	5.98			114.60
N. line	3.69			116.89
	100 ft. S. of Birch			
N. line	6.58			114.00
Center	8.66			111.98
E. line	10.36			110.28
T. P.	0.82	8.35	113.05	112.23
	150 ft. S. of Birch			
N. line	1.28			111.77

120.58
8.35
112.23
0.82
113.05

Center	3.22	109.83
--------	------	--------

E. line	4.60	108.45
---------	------	--------

200 ft. S. of Birch St.

E. line	5.37	107.68
---------	------	--------

Center	4.50	108.55
--------	------	--------

W. line	2.62	110.43
---------	------	--------

250 ft. S. of Birch

W. line	3.63	109.42
---------	------	--------

Center	5.47	107.58
--------	------	--------

E. line	4.90	106.15
---------	------	--------

North line of Ash St.

E. line	7.72	105.33
---------	------	--------

Center	6.45	106.60
--------	------	--------

W. line	4.62	108.43
---------	------	--------

Nov. 29th 1901.

Account
Lowell
Fisher
Maschal

Survey for curb grades
Lot G. Block #68 Houghton
Addition
for Joe Kelley
Contractor,

B.M. N. hinge of Hydrant S.E. cor 4th + G.
Elev. = 24.11

24.11	16.33	26.33	26.53
2.22	28.00	27.12	21.75
26.33 = H.I.	3.33	4.21	5.08

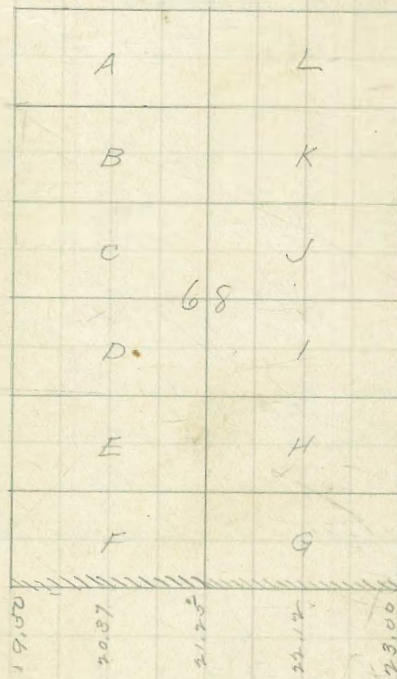
Dec 3rd 1901.

Curb grades for Lot F.
Blk. #68 Houghton add.
for Joe Kelley

26.51	26.51
20.37	19.50
6.14	7.01

Order 1190

24.11 = B.M.
2.40
26.51 = H.I.



Dec. 19th 1901.

Cumwell
 Fortner
 Marshall

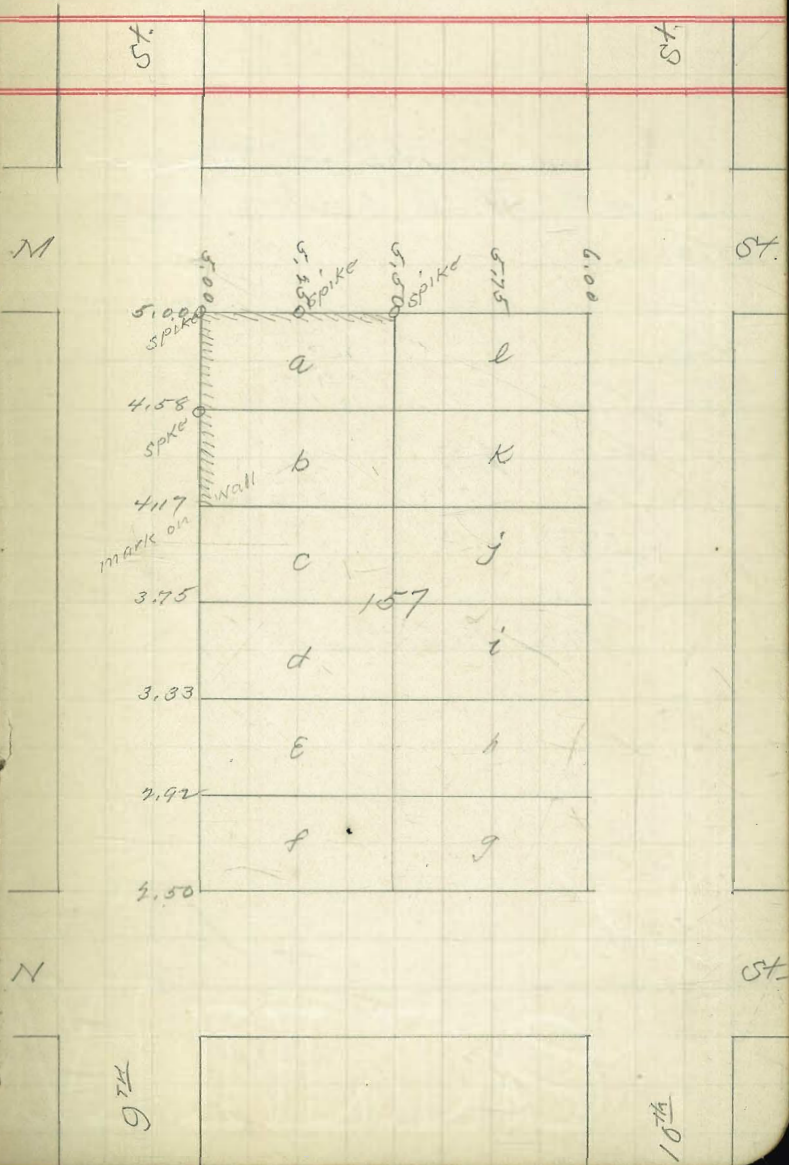
Line and grades for
 Lots a-b. Block #157 Horton
 Add-

Gas Co.

				8.45 = R.M.
				2.29
				10.54 = H.I.
4.17	10.54	10.54	10.54	
26	4.42	4.83	5.25	
4.42	6.12	5.71	5.29	
4.58		10.54	10.54	
25		5.50	5.25	
4.83		5.04	4.79	

Set spikes as indicated on line,
 also stakes, ^{with tack} at each point 2 ft,
 from line, (in walk)
 Top of stakes to Property Grade.

1189



Dec. 26th 1901.

Line and Grade for Paper Line
on 15th St. C. to D.

58.42 = B.M.

11.12

69.54 = H.I.

54.20

15.34

11.00

4.34

79.67

74.50

5.17

7

4.47

69.54

60.60

8.94

3.9

5.04

79.67

73.40

6.27

2.65

3.62

69.54

0.39

69.15

10.57

79.67 = H.I.

67.00

12.67

7.7

4.97

Water Department

C

74.50 C. 4.5

73.40 C. 3.6

67.00 C. 5.0

60.60 C. 5.0

54.20 C. 4.3

D

54.20

15th

5th

5th

Dec. 28th 1901-Gunnell
Father
Marshal

67

Cross-sections on Leitch St. from

South line of line to North line of Juniper
In accordance with Provisions of Joint Resolution

No 1873

Sta	+	-	B.H.	Rod	Elw.
	0.11		202.68		202.57
+	1.49	11.26	192.91		191.42
North line of Juniper					
E. side				5.50	187.41
C				6.38	186.53
W. side				6.65	186.26
South line Juniper					
W.				6.92	185.99
C				6.38	186.53
E				5.40	187.51
50 ft. S. of Juniper					
E.				7.05	185.86
C				8.10	184.81
W.				8.17	184.74
100 ft. S. of Juniper					
W				10.20	182.71
C				9.88	183.03
E				8.90	184.01

Cannot walk

Cannot walk

202.57
 0.11
 202.68
 11.26
 191.42
 1.49
 192.91

Sta	+	-	D.H.	Rod	Elav
			150 ft. S. of Juniper		
E.				10.45	182.46
C				11.57	181.34
W				11.80	181.11
+	1.03	11.23	182.71		181.68
			200 ft. South of Juniper		
E				2.20	180.51
C				3.15	179.56
W				3.74	178.97
			250 ft. S. of Juniper		
W				5.40	177.31
C				5.02	177.69
E				3.88	178.83
			North line of Day		
E				5.18	177.53
C				6.56	176.21
W				7.10	175.61
			South line of Day		
W				7.75	174.96
C				6.88	175.53
E				5.50	177.21

192.91
 11.23
 181.68
 1.03
 182.71

Cement walk

Cement walk

	50 ft. S. of Dry			
E			10.00	172.71
C			9.95	172.76
W			10.65	172.06
T	0.08	11.06	171.73	171.65

	100 ft. S. of Dry			
W			4.00	167.73
C			3.30	168.43
E			3.45	168.28

	150 ft. S. of Dry			
E			7.70	164.03
C			7.42	164.31
W			8.20	163.53

	200 ft. S. of Dry			
W			11.90	159.83
C			11.48	160.25
E			11.52	160.21
T	0.54	11.74	160.49	159.95

172.71
 11.06
 171.65
 0.08
 171.73
 11.78
 159.95
 0.54
 160.49

Current walk

250 ft. S. of Dry.

N.			4.07	156.42
C.			3.89	156.60
E.			4.18	156.31

North line of Hawthorn

E.			8.05	152.44
C.			7.58	152.91
N.			7.90	152.59

South line of Hawthorn

N.			10.90	149.59
C.			10.32	150.17
E.			10.45	150.04
T.	0.17	11.71	148.95	146.78

50 ft. S. of Hawthorn

N.			4.52	144.43
C.			4.25	144.70
E.			3.88	145.07

160.49
11.71
148.78
0.17
148.95

100 ft. S. of Hawthorn

E			9.50	139.45
C			9.48	139.47
W			9.90	139.05
T	1.28	11.95	138.28	137.00

150 ft. S. of Hawthorn

W			4.75	133.53
C			4.30	133.98
E			3.98	134.30

200 ft. S. of Hawthorn

E			9.42	126.86
C			10.00	128.28
W			10.17	128.11
T	0.77	11.90	127.15	126.38

250 ft. S. of Hawthorn

W			3.92	123.23
C			3.80	123.35
E			3.32	123.83

148.95
 11.95
 137.00
 1.28
 138.28
 11.90
 126.38
 0.77
 127.15

North line of Graper

E			7.40	119.75
C			7.58	119.57
W			8.00	119.10

South line of Graper

N			10.60	116.55
C			10.00	117.15
E			10.05	117.10
T	111	11.79	116.47	115.36

50 ft. S. of Graper

E			4.30	112.17
C			3.65	112.79
W			3.95	112.59

100 ft S. of Graper

W			9.00	107.47
C			9.12	107.35
E			8.95	107.52

127.15

11.79

115.36

1.11

116.47

100 ft. S. of Craper

E			9.80	106.67
C			12.05	104.44
W			11.80	104.67
T	2.74	11.90	107.81	104.57

200 ft. S. of Craper

W			4.42	102.89
C			4.40	102.91
E			3.81	104.00

250 ft. S. of Craper

E			3.93	103.38
C			5.30	102.01
W			6.10	101.21

North line of line

W			6.90	100.41
C			5.62	101.69
E			3.65	103.66

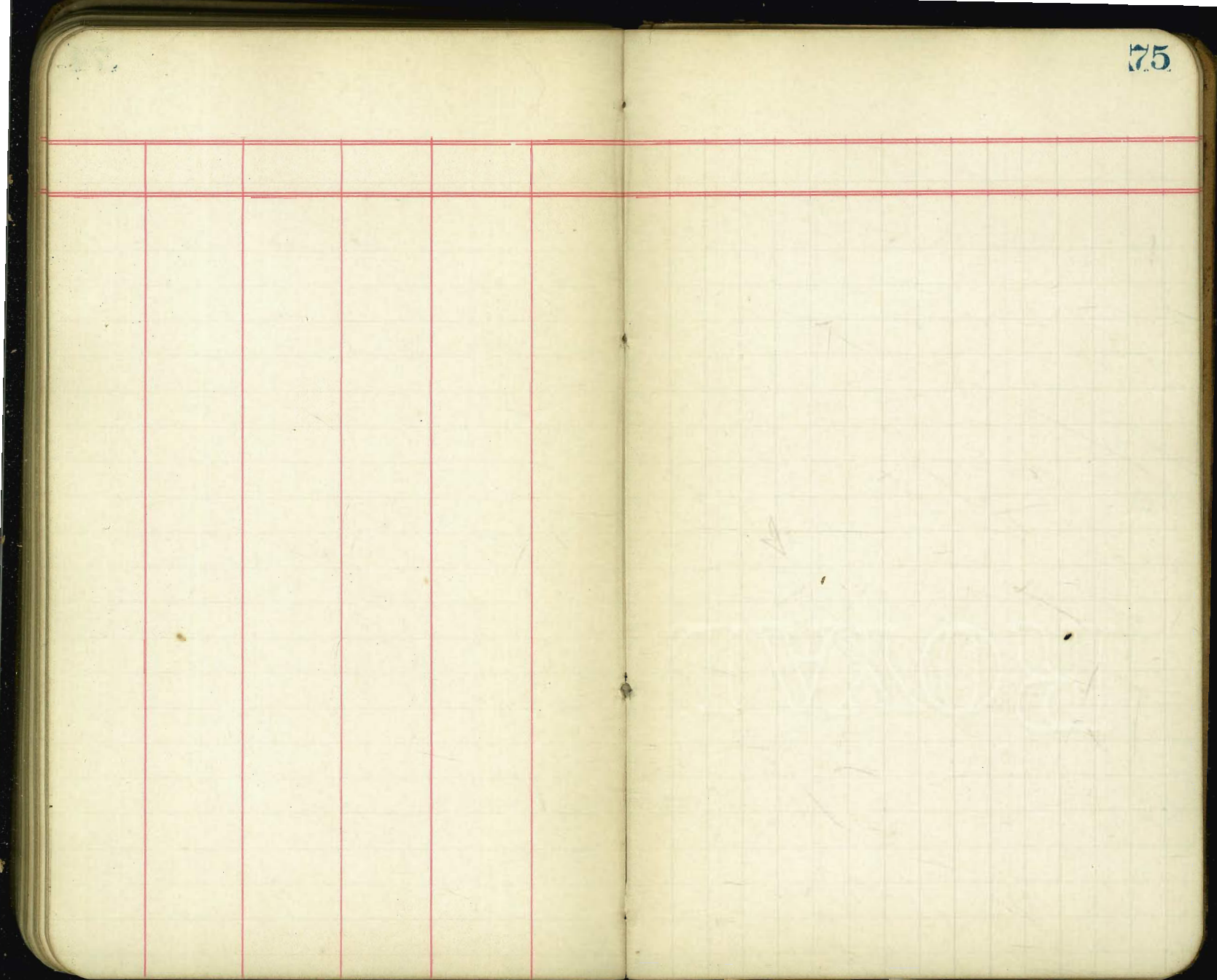
116.47
111.90
104.57
2.94
107.51

Return walk

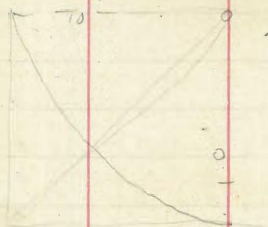
Return walk

South line for

E	4.50	102.51
C	6.25	101.06
N.	7.72	99.89



120.00
0.58



$\frac{1200}{100}$

6.80 5.90
5.38 5.20

$\frac{284.78}{10}$
 $\frac{270.78}{10}$

$\frac{30.00}{27}$
29.79
15

$\frac{307}{73}$
3.50

10) $\frac{50}{25}$
5

79

16) 80(5)

$\frac{28092}{238.57}$
42.35

$\frac{42.74}{8.41}$
 $\frac{42.33}{9.43}$
51.76

$\frac{52.5}{16.5}$
 $\frac{36.25}{31.50}$
32.5
866.25

$\frac{61.00}{59.00}$
6) $\frac{4.00}{20}$ (.3333)

$\frac{56.38}{52.75}$
5.63

$\frac{59.3333}{3333}$
59.6666
 $\frac{3333}{59.9999}$
3333
 $\frac{60.3332}{3333}$
60.6665
3333
60.9998

$\frac{64.00}{59.00}$
4) $\frac{5.00}{4}$ (1.25)
 $\frac{10}{8}$
 $\frac{60.25}{1.25}$
 $\frac{61.50}{1.25}$
 $\frac{62.70}{1.25}$
64.00

28.5
16.5
142.5
171.0
48.5

2

16.5
24
8.2
66.0
533.0
2396.0

470.25

200.90
42.35

7.5
7.7
8.2

148.55
14
164.55

600
160
767

52.5

900
1180
2200
3360
4400
5400

27.5
16.5
137.5
165.0
273.5
433.75

169.70
161.23
80.58
82.80
3200
2360

161.23
164.04
74.04
238.04

952.71
767
508.97
1362.6
508.97
5576.57

161.23
5.58
166.81

28.5
16.5
174.25
28.5
470.25
396
866.25

00727
2150897
21813
2523877

514.5 30.50
396 24
210.3300 6.50 0.032
50

12.95
9.17 343.3 1.760
22.12
0.18
21.94
9.82
31.76
0.10
31.66
11.08 514.5
42.74 347.5
862.0

007273
26813
50897
530783

238.04
53
238.57
238.57
185.57

200.92
2150897
0235

866.25 238.57
514.5
351.75
164.57
514.5
370.25
44.25

OK.

E.	P.	Degrees.
31		89
05		88
80		87
54		86
28		85
02		84
75		83
49		82
21		81
93		80
55		79
66		78
07		77
77		76
46		75
4		74
2		73
9		72
4		71
0		70
3		69
5		68
7		67
7		66
1		65
4		64
6		63
6		62
1		61
6		60
5		59
5		58
7		57
5		56
5		55
4		54
5		53
2		52
5		51
0		50
4		49
4		48
7		47
4		46
5		45

