Street Centers – Park
Map
Miscellaneous
Engineers [illegible]

TRANSIT BOOK

12

F.B. 485

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

MICROFILMED 1964

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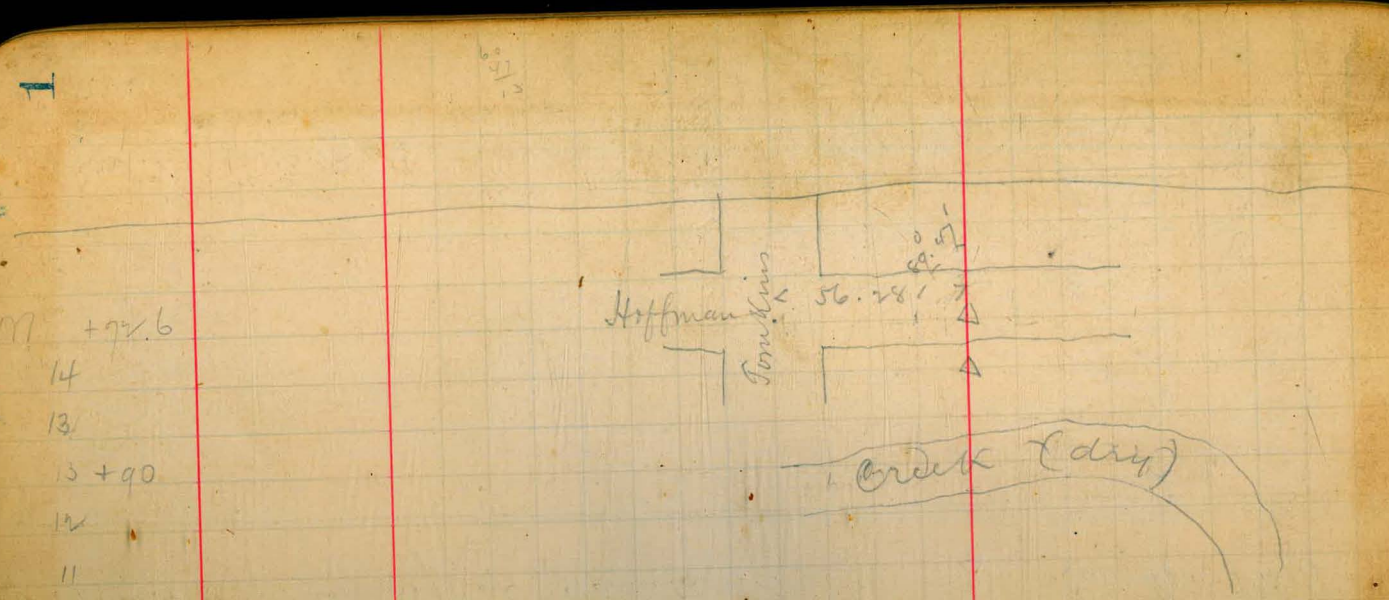
SAN FRANCISCO, CAL.

Table for Running on Slopes.

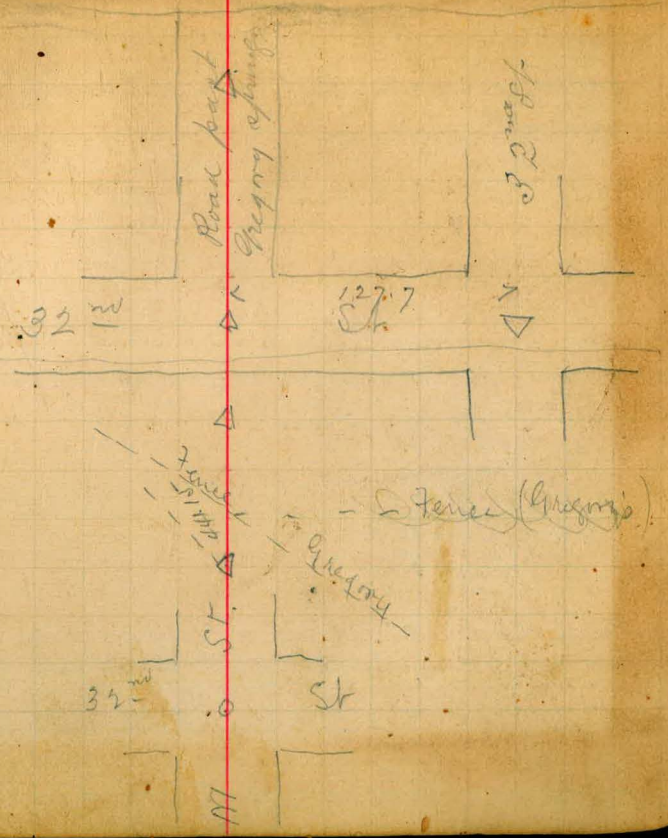
In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
°		°		°		°	
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

485

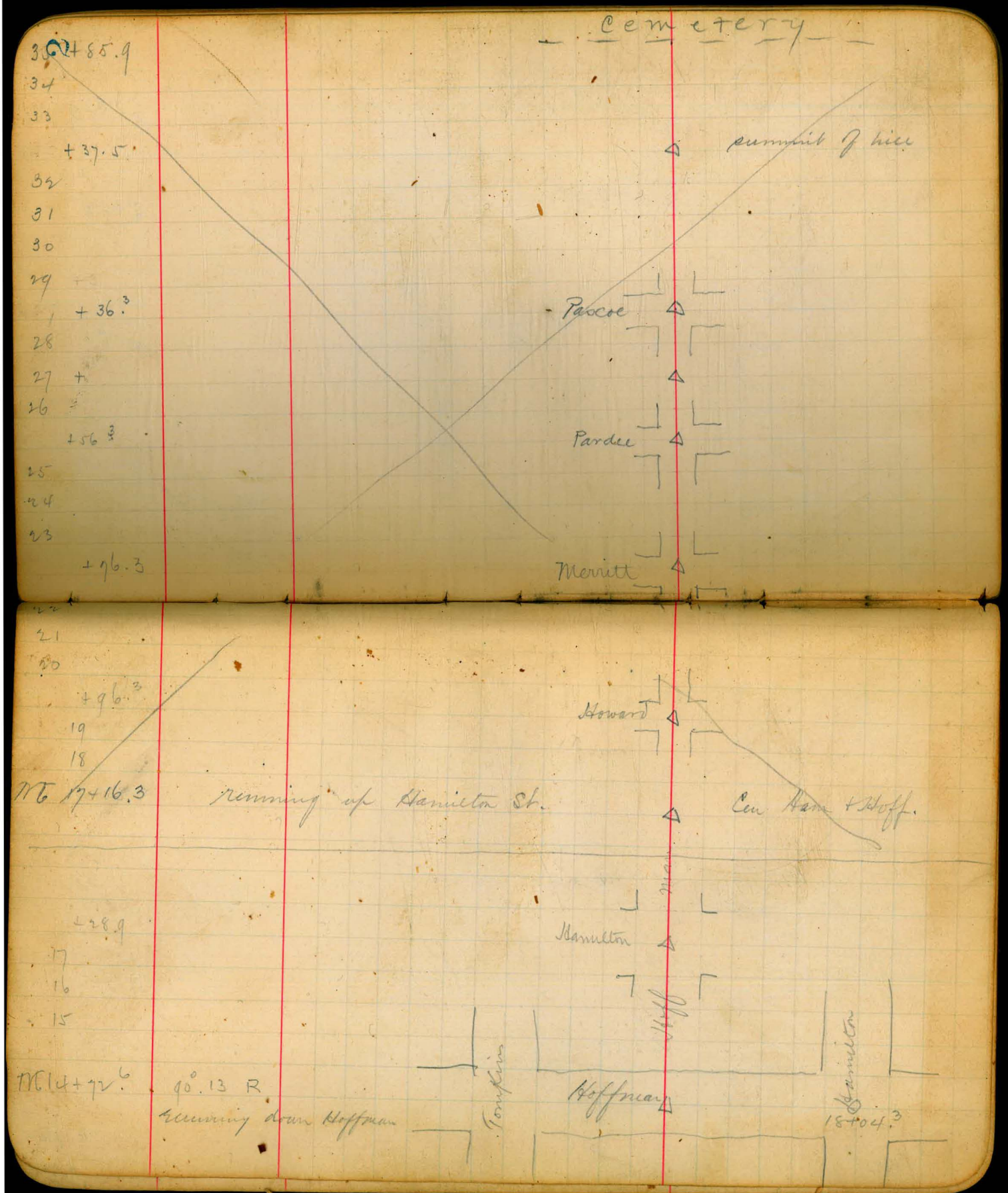


M +72.6
14
13
13 +90
12
11
10
9
8
7
6
M6 5

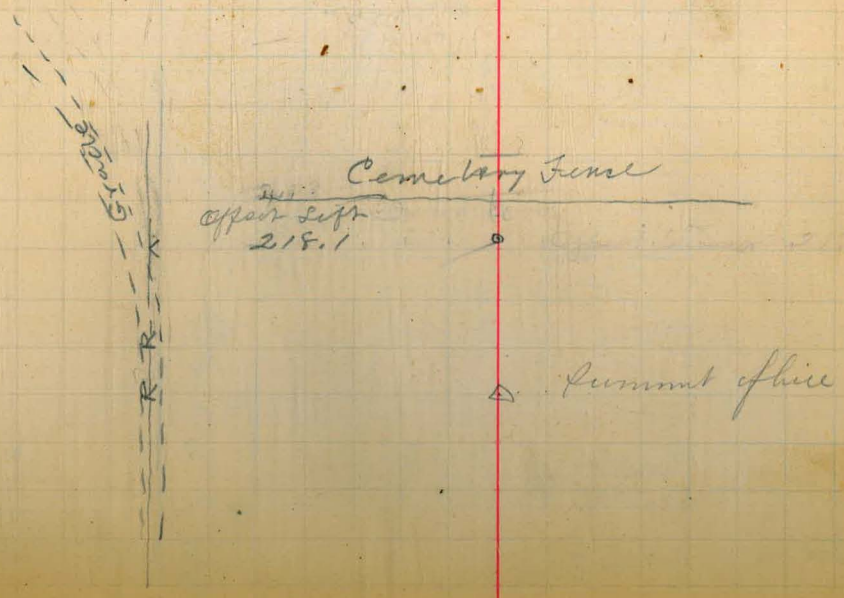


+27.4 = M4+77.4
4
3
2
1
A 0

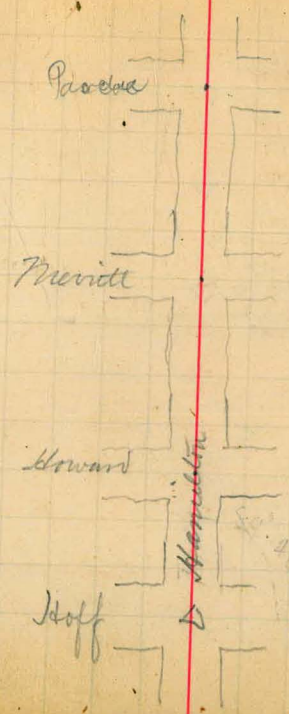
M +77.35 44°49' R
4
4 +64
3 44°15' L
2
1
M 0


Cemetery
35 + 85.9
34
33
+ 37.5
summit of hill
32
31
30
29
+ 36.3
Pascoe
28
27
26
+ 56.3
Pardee
25
24
23
+ 96.3
Merritt
22
21
20
+ 96.3
Howard
19
18
17 + 16.3
running up Hamilton St.
Cen Ham + Hoff.
+ 28.9
Hamilton
17
16
15
14 + 72.6
90°.13 R
running down Hoffman
Tompkins
Hoff
Hoffman
Hamilton
18 + 04.3

+ 72.0
+ 07.
36
35
34
+27
33
32
31
30



+24.3
29
28
27
+44.3
26
25
24
+64.3
23
22
21
+84.3
20
19
M.18+04.3



Connection with Columbia & P.R. & Sanborn & Belmire add.

Cemetery Fence

+84.6 △ Jack in fence

19

18

17

16

+16 Ravine

15

14 +5(5) Boundary of addition

13 △

12

+76.3 △ Pascoe

11 △

10

9

+96.3 △ Pardee

8

7 ST

+16.3 △ Merritt

6

5

4

+36.3 △ Howard

3 TOMPKINS

Gulley

2

1 Running up Tompkin

+56.3 △ Hoffman

B.O. = M 14+75.6

Oct 29 1/88

840.6
2.6
14+76.3
2+4.3
14+16.3

840.3
56.3
336.3

26					
25	Δ 22° L		-2.5	-1.5	
24		N 13° W Magnetic			N 0 33 E
23			-2.0	-20	
22	Δ 20° 30 R				
21					
20					N 19 57 W
+42	Δ 21° L		-15	-3.0	
19					
18					
17			00	-3.5	
16					N 1 03 E
15			00	6.0 out -7.0	
14					
13			+1.5	5.5 out -7.0	
12					
11			+0.5	-3.0	
+80	Δ 3° L				
10					
9					
8					N 4 03 E
7					
6			-4.0	-1.0	
+80	Δ 5° 30' R				
5					
4			-3.5	-5.5	
3					
2					N 1° 27 W
1				150' wide	
0+20					
0	Δ Initial Point		-5.5	Δ -1.5	

0 Initial Point Oct 31/84 West Boulevard Line
+ 0 Running North City Park
dist 20' Preliminary

4					
3			00	00	
2					
1			+ 0.3	- 3.1	
50					
9			- 1.0	- 3.5	N 0° 03' E
8					
47	⊙		- 1.0	- 2.8	
6					
5					
4			00	00	
3					
2			00	+ 1.0	
1		N 13½ W			
40			- 0.5	- -1.0	
39					
38	△ 30° R	N 43½ W	- 1.0	- 3.5	
37					
36			+ 2.0	+1.0	N 29° 07' W
35					
34		N 8° W			
33	△ 35° 30' L		00	63 out - 7.0	
32					
31					N 5° 03' E
30			- 0.5	- 4.0	
29		N 35° W	0		
28	△ 27° R				
27			~~- 2.5~~	~~- 1.5~~	
					N 21° 27' W

58+	Δ 46° 44' R				
11					
10					N 47° 27' W
9				− 4.0	+ 0.5
8					
7	Δ 28° L			− 2.0	+ 3.0
6					
5					N 19 27' W
4		S 33½ E			
3	Δ 10° 30' L			+ 4.5	+ 4.0
2					
1					N 9 27' W
0	Δ Initial point 8° L	S 28° E			

Running South, To 9 L 5 L

55+09.6 Δ					N 89° 45' E
		North Park Line			
		N.W. cor.	76.7	90°45'	
		N 0° 21' W			N 0° 03' E
55−				− 1.0	+ 2.5

70° 33'

Stake 80 (3) ft
property line
South

+92 Δ
8
+20 Δ 18° 37 R.
7
6

A 5 Δ 4° 30' L
4
3
2
A 1
3 Δ 10° R

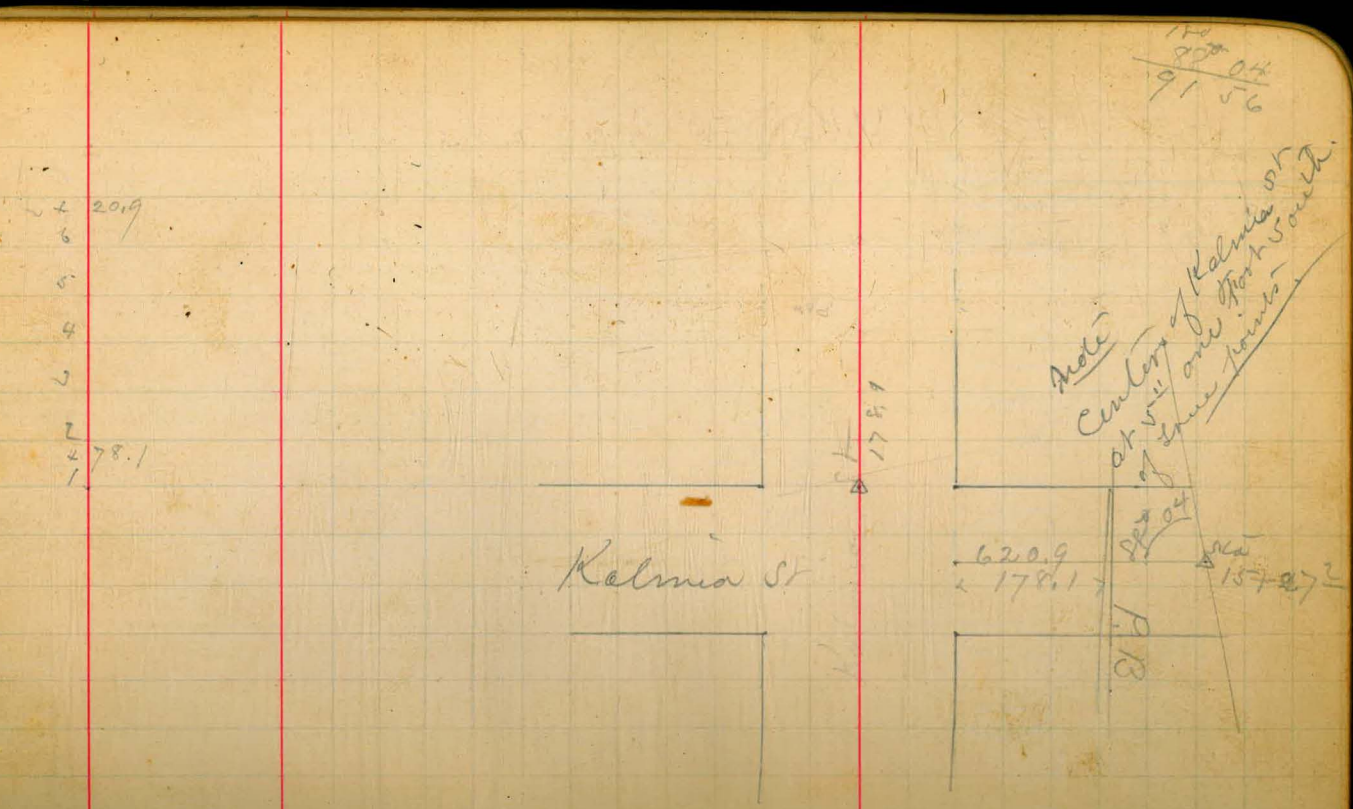
From Sta 3 on Line
from 0 to Head of 9th St
thence to " " 7 "
Running South

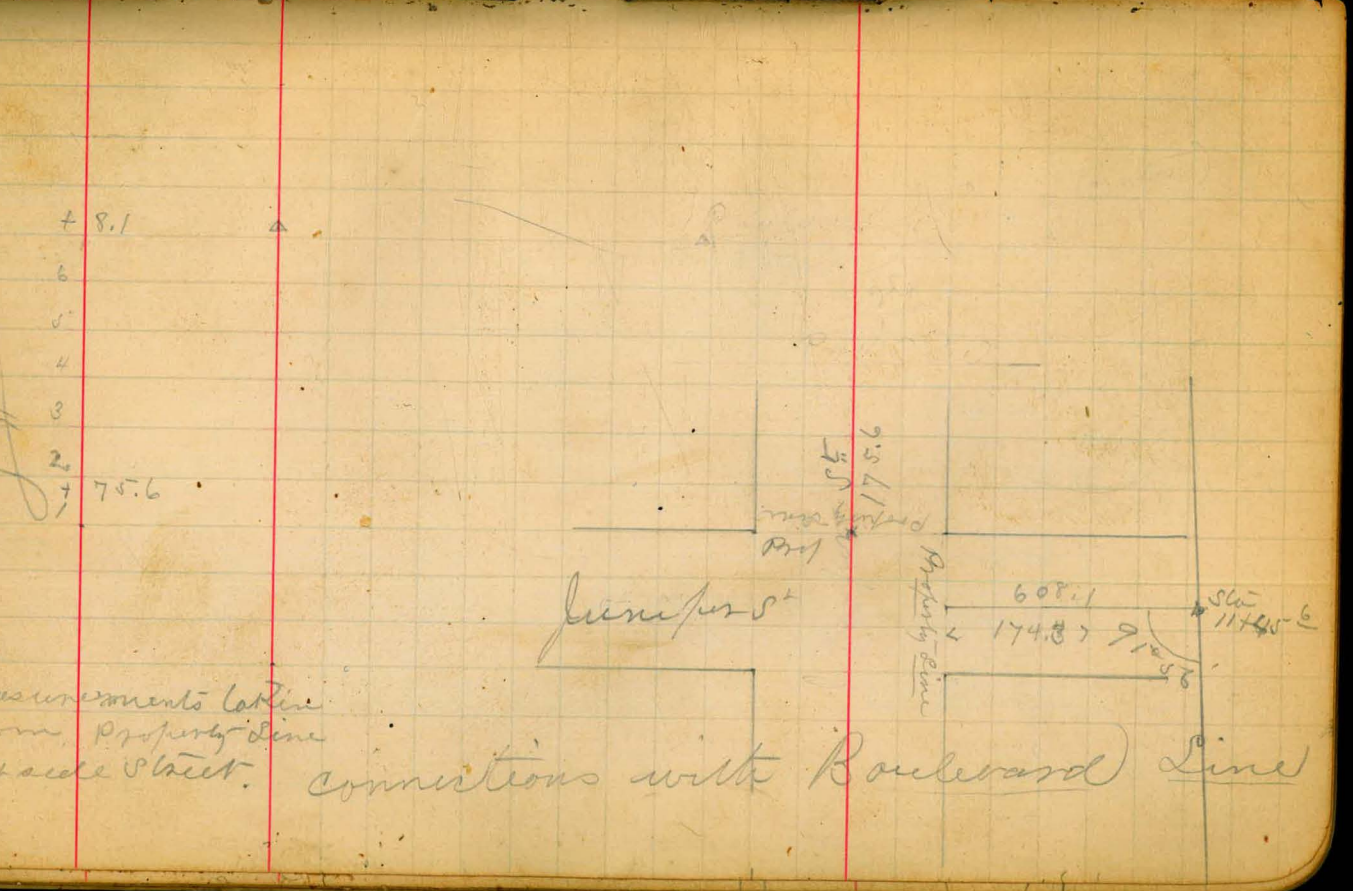
+30 ±
13
12

Center 9th St

N 89° 47' W Δ Line side walk South side of house
South side pave
89° 30'

N 0° 43' W


Kalmia St
620.9
178.1
Note
Curb of Kalmia St at 5" one foot south of Spruce Street


Juniper St
608.1
174.8
Property line
Mar 21 1911
Measurements taken from Property line East side Street.
connections with Boulevard Line

+ 89.5

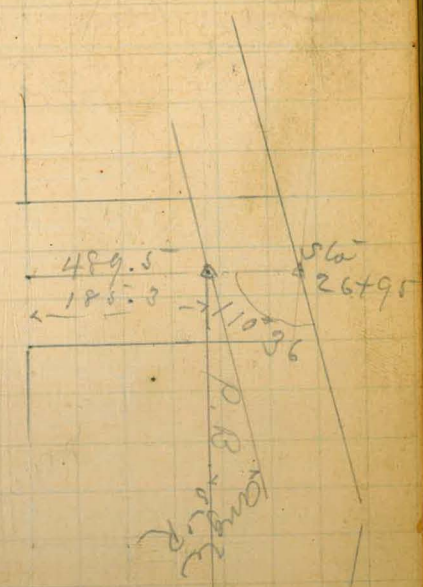
4 At center Nutmeg St / Nutmeg St

3 angle 5' R Running South

2

1

+ 58.2



5

4 Maple St

3

2

1

+ 33.6

6

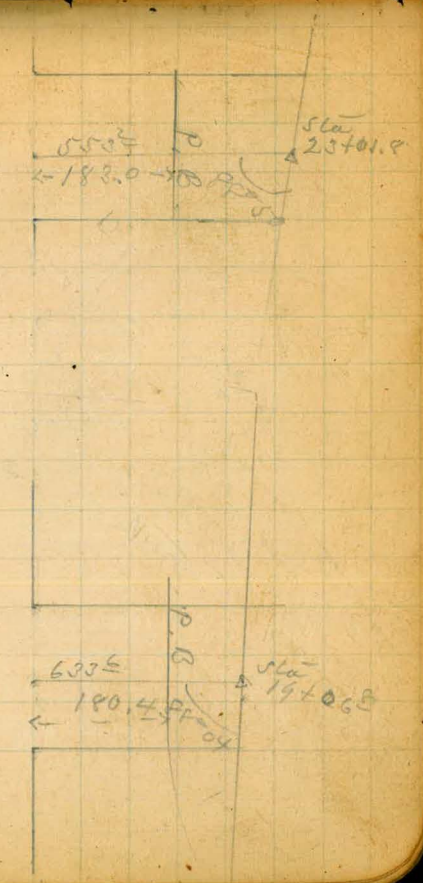
5

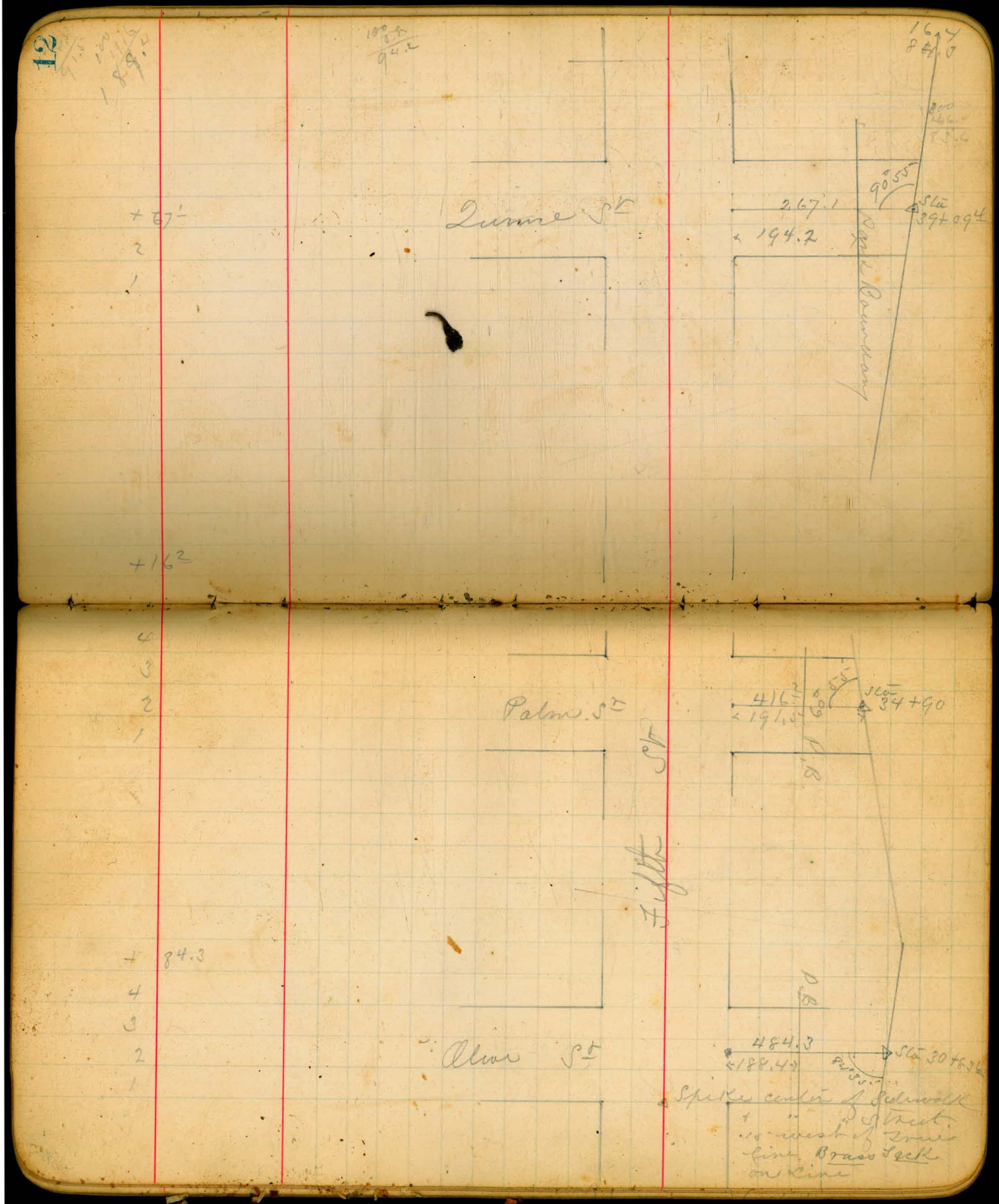
4

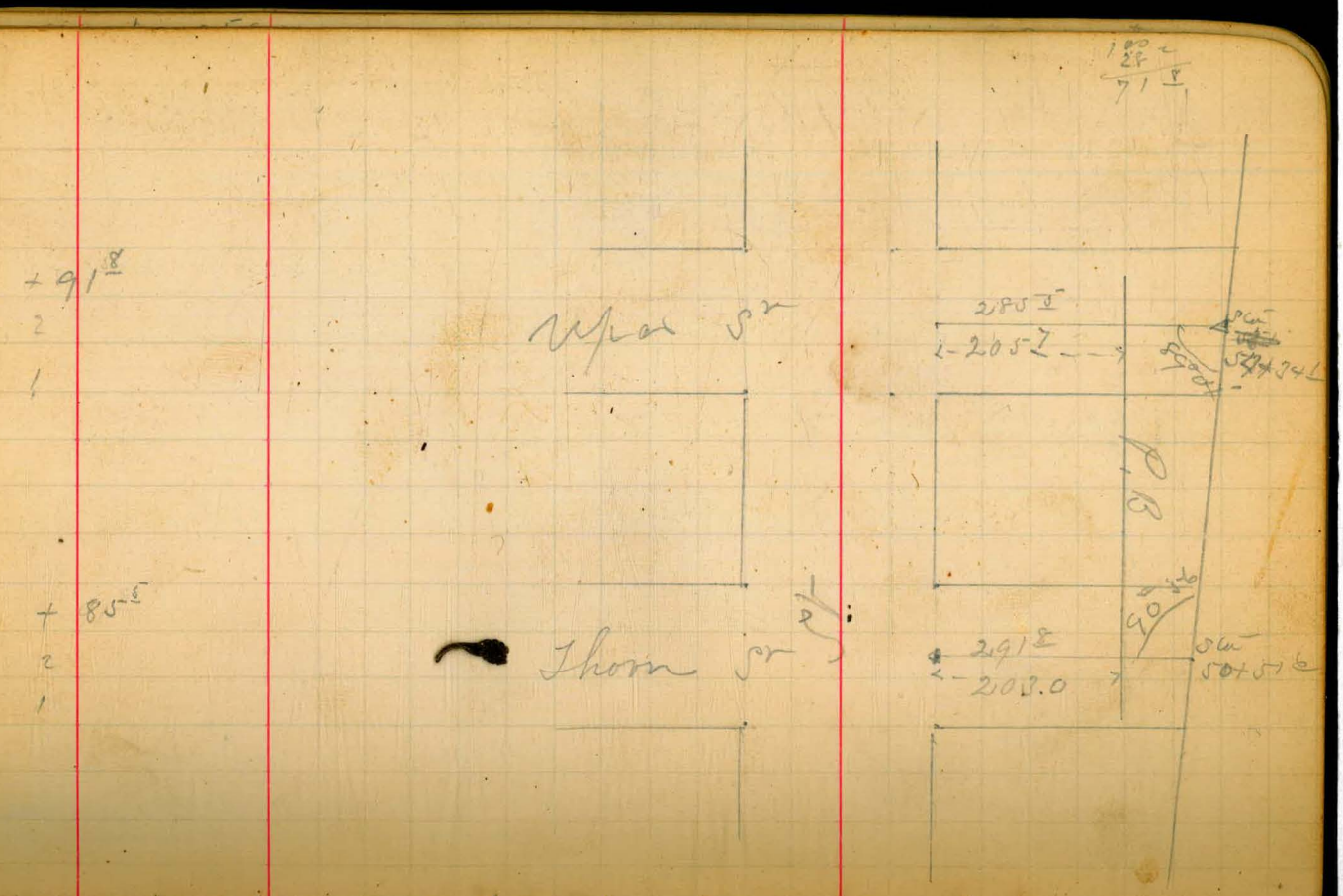
3

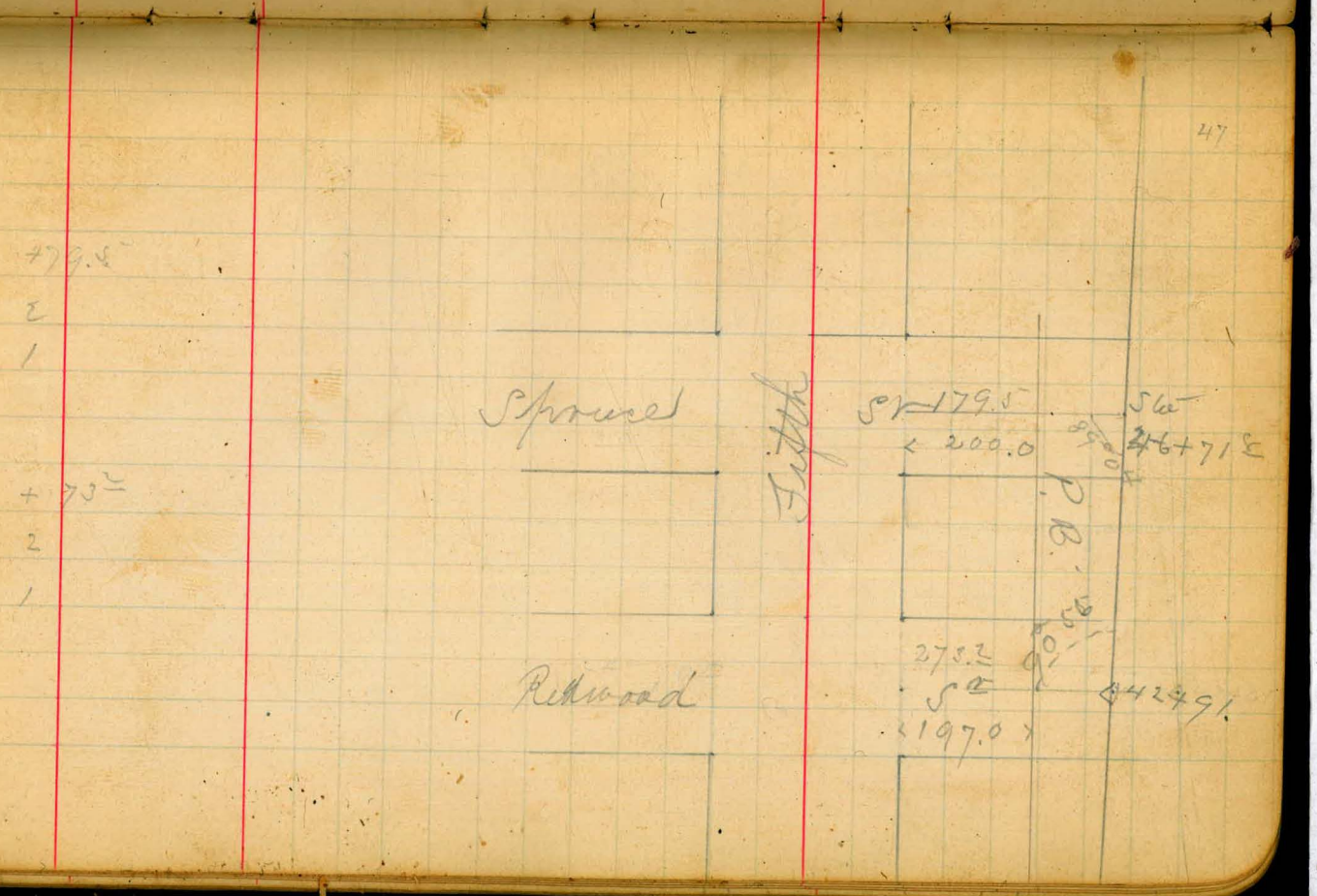
2 Laurel St

1




Lime St
267.1
194.2
Palm St
416.2
191.5
Olive St
484.3
188.4
Spike center of Sidewalk
Line Brass Tack
on line

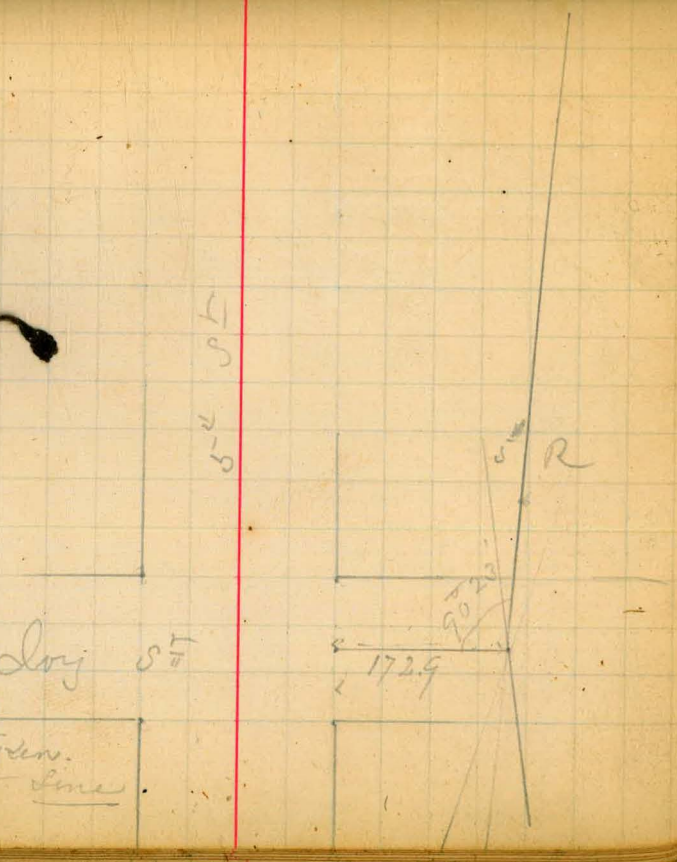

Upper St
Thorn St
285.5
205.7
291.5
203.0
50+51.6


Spruce
Redwood
179.5
200.0
46+71.5
273.2
197.0
42+91

172.9

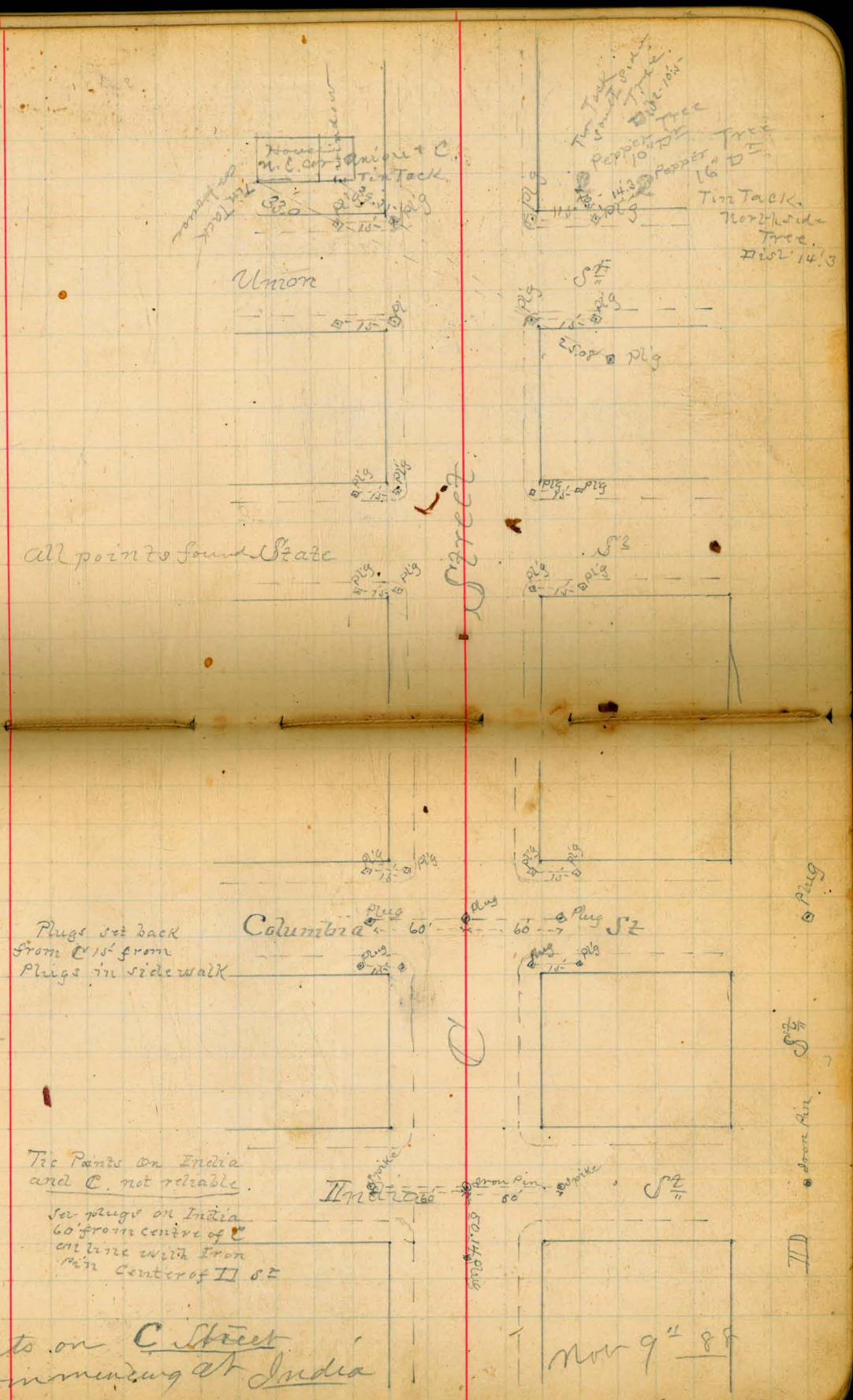
+ 172.9 S S R

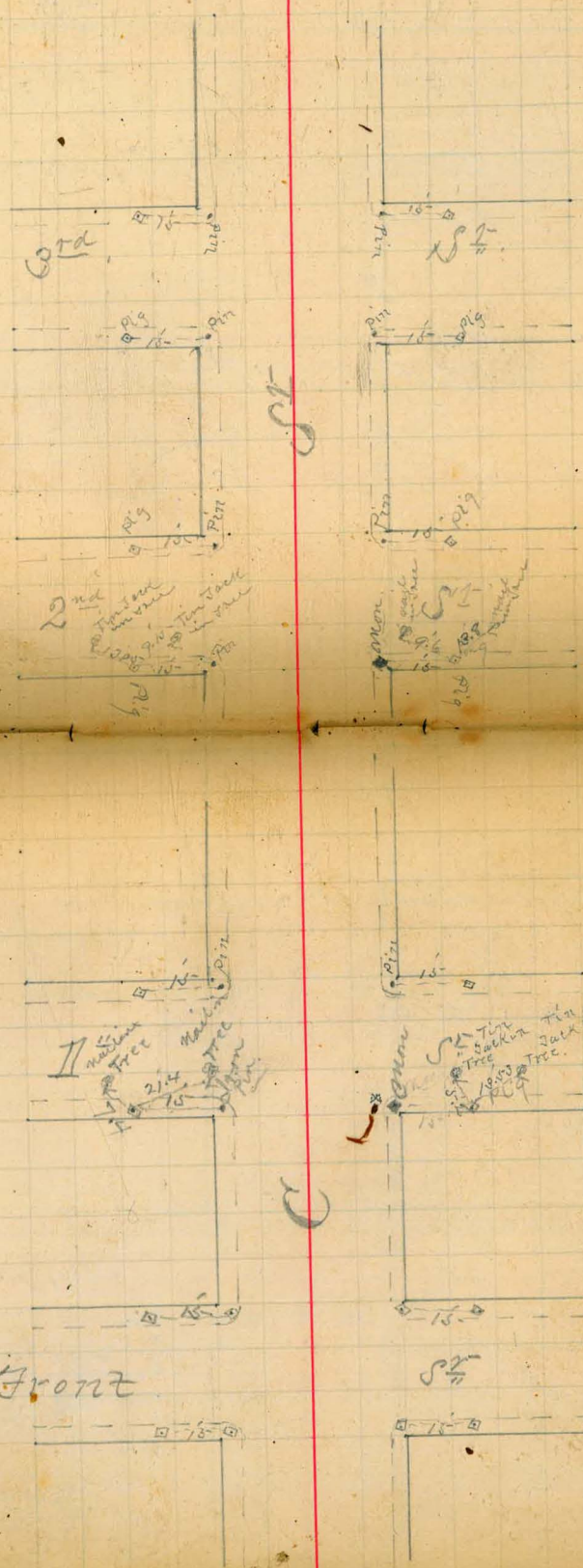
1



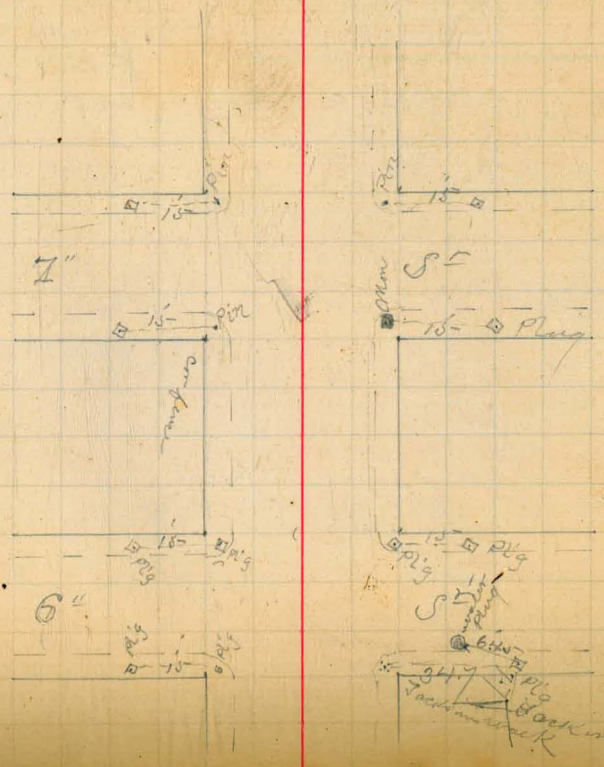
Log S

Fractional Block. Measurement taken.
Bet S. St & Park from East Property Line


House
N.C. cor
Union + C.
Tin Tack
Tin Tack
Tin Tack
Tin Tack
Tree
Pepper 10" Dia
Pepper 16" Dia
Tree
Tin Tack
Northside
Tree
Dia 14.3
Union
Spike
Plug
all points South State
Street
Columbia
Plugs set back
from C 15' from
Plugs in sidewalk
Plugs are Put in
by taking sights
on Plugs across
C. St & by and
exact measure-
ment of 15'; —
Tie Points on India
and C. not reliable.
Set plugs on India
60' from centre of C
on line with Iron
Pin Center of II St
Iron Pin
Tie Points on C Street
commencing at India
Nov 9th 88

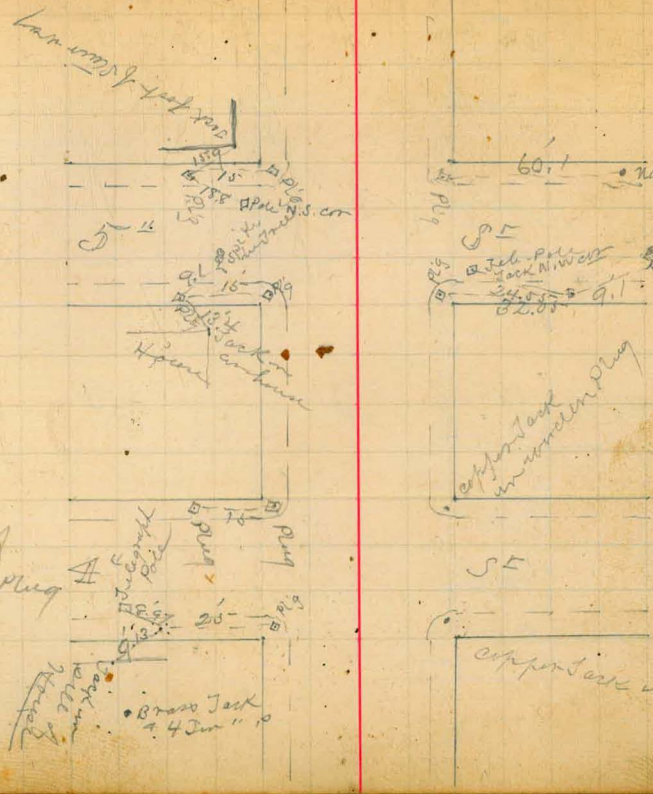


* No lead or Jack in Monument S.W. cor. 1st St



S. W. Cor 5th C; 5th
Large Plug under sidewalk
directly in front of door
entrance to Farnsworth + Curry's
Meat market.

Plug under 14" board
from South end of sidewalk
7 In Jack driven in board over Plug
In side walk
25' North of Plug
847



18

14+48 = +49 E.C. 4° L

Tang 175.9
out ch 1.1
" Def 0 01'
Length of curve 350
Def 1°

4° L

12 +78.9 P I. 14° L

12
+50

11
+98 B.C. 4° L
+76.5 E.C 30° R

30° Curve

Tang 140.5
out ch 15.6
" Def 2° 20
" 7 30
out ch 26.6
" Def 2° 58'

N 15 3/4 W

N 1 3/4 W

9+75 T.P.

10 + 72.5 30° R.

9

8 + 34.5 B.C 30° R
8 + 27.5 E.C 20° L

P. I 7 + 56 L

20° Curve

Tang 152.5
B.C. 5+47.5
out chord 2.5
out def " 0 15'
" 5 00
E.C 8+27.5

6

5+ 47.5 B.C 20° L

4

3

From west 86° North

2

Sta 1 86° R

Curve of 8° S.

N 89° 47' W

South Park Line

N 74 1/4 W

Mag N 18 1/4 W

Park Boulevard
Mag 1 2° 58

3.15246
9.11942
2.275675

18
17761.4
38.6
5.2
772
386
46.32

18			
+50			1° 46
19			2° 46
+50			3° 46
20			4° 46
+50			5° 46
21			6° 46

+047 E.C. 1° 20' L

310

+50

30

1° 20' L

Tang't 150

P.I. 30 4 L

29 B.C. 1° 20 L

+34 E.C. 5° R

+29

28

+50

27

+50

5°

Tang't 243.6
out ch. 50.5
" def 1° 16
" 1° 15 30' ch

P.I 26 +014 24 R.

25

+50

24

+49 B.C. 5° R

+34 E.C. 10 L

28

+50

10° L

Tang't 143
out ch 43
" def 2° 00
" 2 30
" " 37
" def 1° 51

m 28 3/4 W

P.I. 22 4 28° L

21

+54 B.C. 10° L.

+36 E.C. 4° L

20

+50

19

m 3/4 W

P.I +50 15° R.

18

+50

17

16 +614 B.C. 4° R

16

15

4° R.

Tang't. 188.6
out chord 25.9
def 0° 31

	0	31
+50	1	31
19	2	31
+50	3	31
20	4	31
+50	5	31
21	6	31

44° 40' 359.7
38 22

+49 E.C. 12° L
46
+50
45
+50 44° 40' L
44 P.I. 44+79.8
+50 since Tang 196.8
43
+76 B.C 12°
+71.7 E.C.
+50
42
+50 Since Tang: P.I. 41+30
41 148.4 29° R
+50
40
39+81.7 B.C. 10° L & 10° R.

outch 23.2
sub def - 1° 23' - 43
3
4 23 + 58
3
7 23 - 44
3
10 23 + 30
3
13 23 + 16
3
16 23 + 50
3
19 23 + 46
3
22 23 + 49
2 37
22 20

45
+50
44
+50
42 2.2 △ 30° R = ~~P.I. Tang 437 22.2~~
43
+50
42
+50
41
+50
40
~~39+81.7 E.C. 10° L & R.C. 5° R.~~
+50
39

Tang 307.2
~~outch chord 35'~~
" ~~def 0° 52'~~
5° R

P.I. +72 △ 28° L
+50
38
+50
37+01.7 △ E.C. 13 R + B.C. 10° L.
3

10° L
Tang 173.0

P.I. +86 △ 28° R.
+50
35
+50

34+21.7 E.C. + B.C.
10° L + R
34
+50
P.I. 33 28° L.
+50
32
31+41.7 △ B.C. 10° L

10° L
Tang 143.0
outch. " .0
" def 2 1
" 2° 30 ch 50

+46.7 △ north line of Park

67
66
65
64
63
62
61
60
+20 △
59
58
57
56
55
54
+06.9 △ E.C
53
+50
52

Monument 61.3

Monument 20 feet

Point of Tangent

Point of Curve

50'

North Line of Park

n.s. Line Park

70°

89°40'

79+4 △
67
66
65
64
63
62
61
60
59
58

P.I. +70 △ 22° 16' R

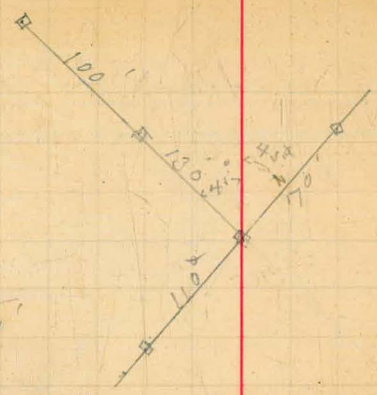
51
+50
+08 △ B.C 7° 30
+06.3 △ E.C 7° L
50
+50
49
+50
P.I. 48 △ 29° 34' L
+50
47
+50
46
+33.8 B.C 7° L
45 + 71.7 △ E.C. 5° L

Chorde

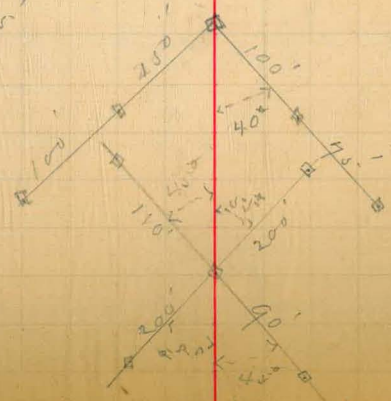
~~P.I. 51+70. Opposite end of Chord 6°. Chord 125'~~

~~Tangent 216.1~~

57
56
△ 55+61.3
54
53
52
51 from Sta 50 Tang
50 75' East of Post line
+59.4 E.C. 12° 30' R.
+50
49
+50 P.I. 48+39.3
48 38° 22' R.
+50 end Tang 1159.8
47
46+52.4 B.C 12° 30' R
46+50

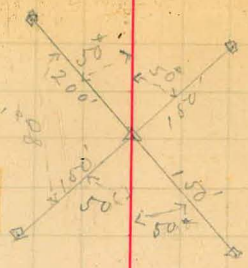


Sta 10+76½ E.C. 30° R Δ R. 45° – 170'
L. " – 110'
" 45° – 130' – 100'

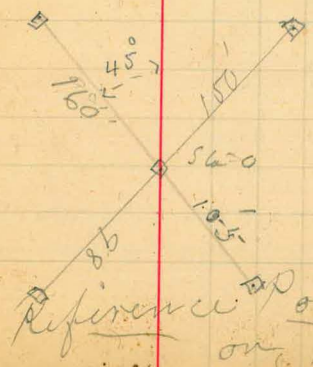


Sta 8+34½ B.C. 30° R Δ R – 40° – 100' – 75'
L. –

Sta 8+27½ E.C. 20° L Δ R. – 45° – 110'
" 55° – 200'
L. 55° 200'
" 45° – 90'



Sta 5+47½ B.C. 20° L Δ R. from P.I. 50° – 150'
" 50° 150
L. 50° 200'
" " 150'



45° from Tang't. Right 45° – 150° – 105'
Plug + Tacks. Left " 160° – 98'
Distance to Plug
only approximate

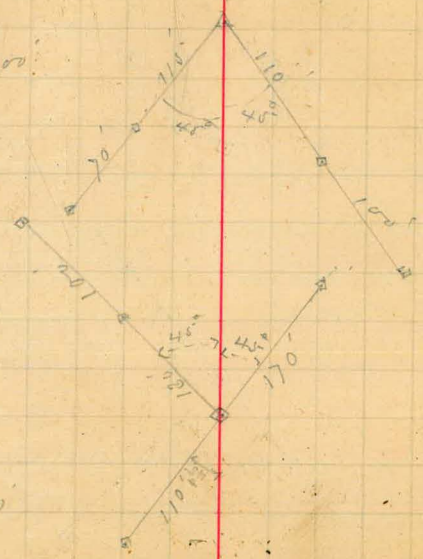
S.Ca 0
Part of line
Sta 1+48

Reference Points
on Park Boulevard line

20+36 E.C. 4° L R - 45° - 125' - 150'
L - 175' - 185'

Sta 16+61 B.C. 4° R R - 45° - 120' - 110'
" - " - 115' - 40

Sta 14+48 E.C. 4° L R - 45° 110' -
L. " - 115' - 70' - 100'



Sta 10+98 B.C. 4° L R - 45° - 170'
L. " " - 110'
" " - 100 - 100

Sta 28+29 = E.C. 5° R. L.— 45° 120' — 100'
" — " — 150 — 75'

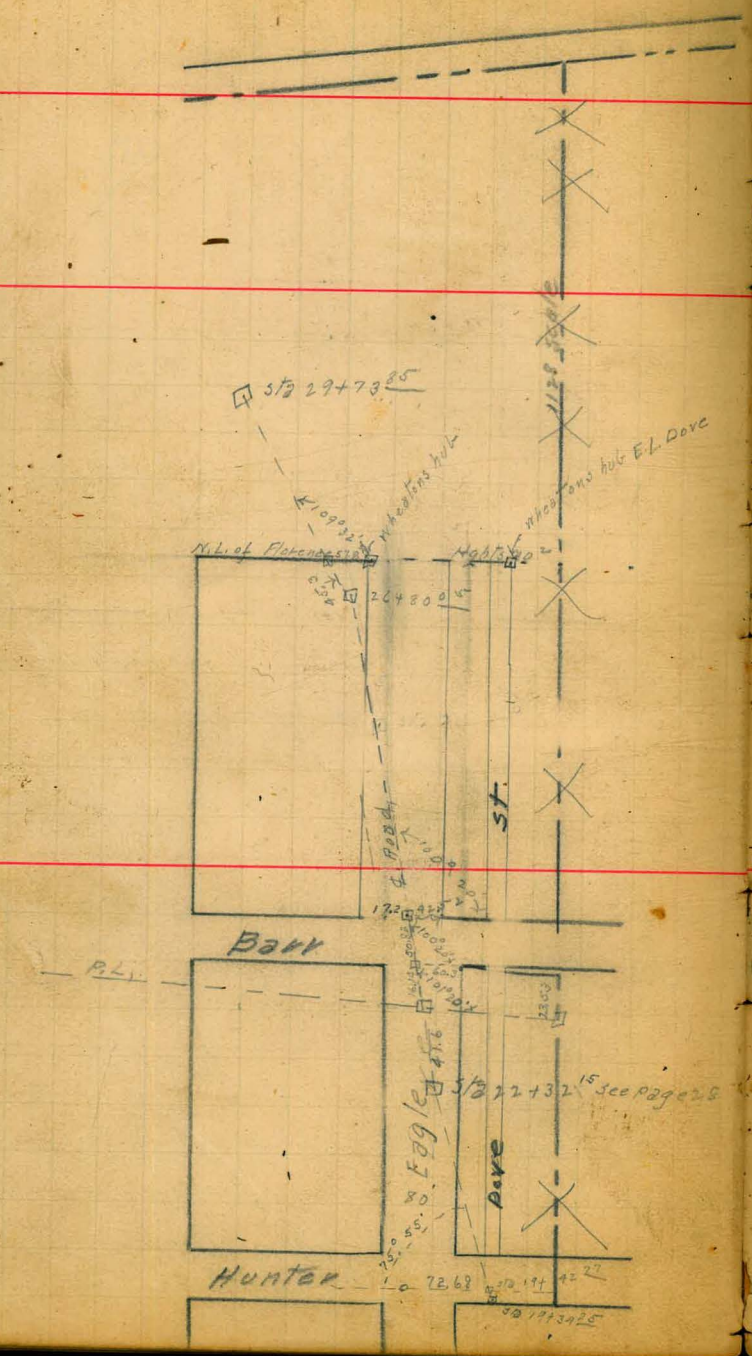
Sta 23+49 = B.C. 5 R L — 45° — 100' — 125'
" — " 150 — 75'

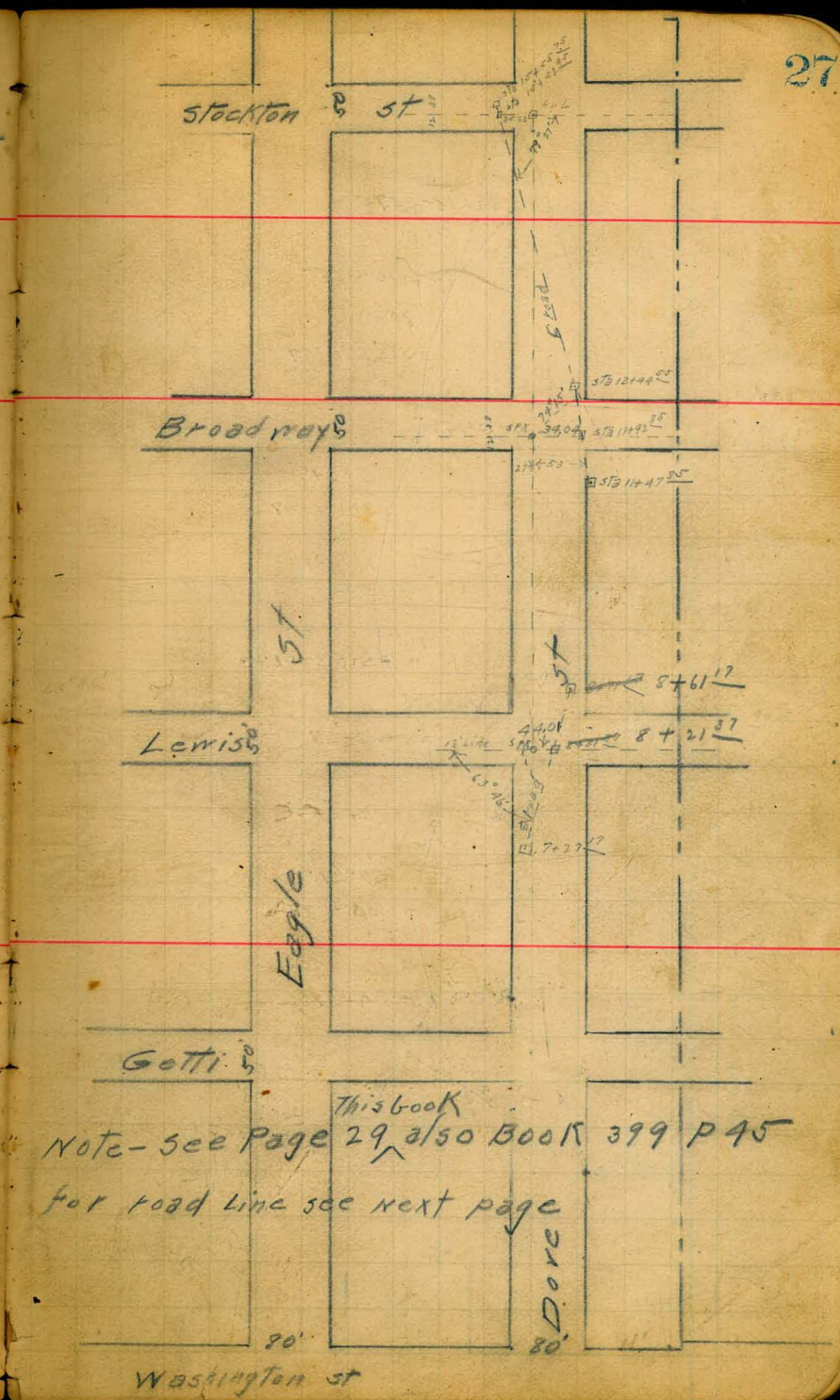
23+34 = E.C. 10° L L — 45° — 150' — 125'
" — " — 150' — 75'

20+54 = B.C. 10° L L — 45° — 175 — 150'
R. — " — 125 — 150'

℄ - 45° - 120, - 100

Sta. 28+84 ⊡ B.C. 120 - " - " - 125 -


Sta 29+73 85
Wheelers hub
Wheelers hub E.L. Dove
N.L. of Florence St
Hobart
Eagle St
Barr
P.L.
Sta 22+32 15 See Page 28
Eagle
Dove
Hunter
Sta 19+34 25


Stockton St
Broadways
Lewis St
Eagle St
Getti St
Dove St
Washington St
Sta 12+44 85
Sta 11+47 85
Sta 11+47 85
8+61 17
8+21 37
7+77 17
80'
80'
This book
Note - See Page 29 also Book 399 P 45
for road line see next page

11/17/10
Shaw
Evans
Butler

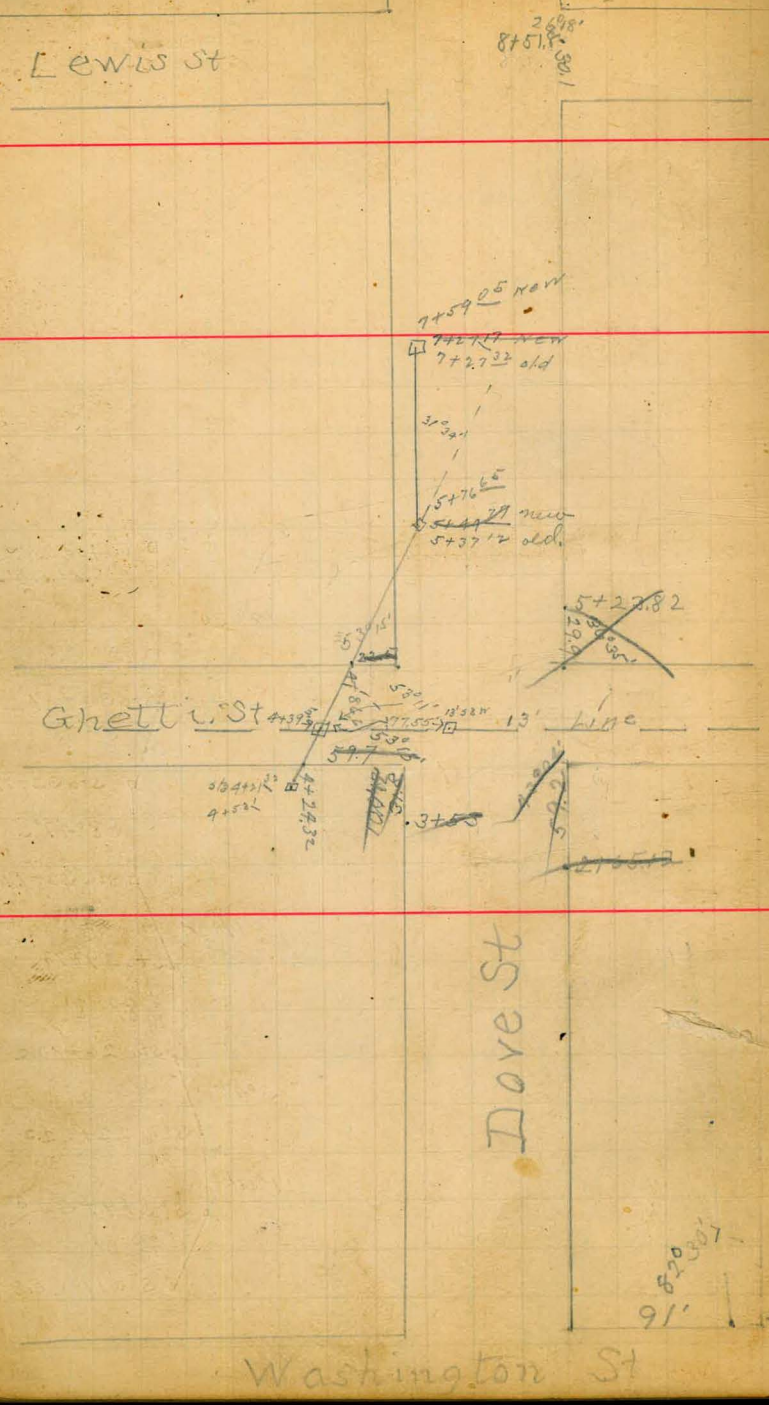
Sta 18+35.75 = 18+25.75
9° 0'
Sta 16+38.85 = 16+28.35
8° 0'
Sta 15+55.75 = 15+45.75
5° 14'
Sta 12+44.55 = 12+34.55
5° 07'
Sta 11+47.85 = 11+37.35
19° 09'
Sta 9+78.35 = 9+68.35
17° 44'
Sta 8+71.17 = 8+61.17
14° 24'
Sta 7+27.17
12° 26'
Sta 6+26.22
37° 21'
Sta 5+37.12
100' 17°
Sta 4+21.32
160.05
Sta 3+57.0
36° 33'
Sta 2+86.32
9.14
14
82
9
101
see book 399 p 45
Fayle st
Washington st
Dove st

265.10
25.4
267'

11/18/10
Shaw
Evans
Moore

28

South Fence Mission Valley Road
40+18.05
Sta 40+28.05
78° 30'
18° 30'
34+27.05
Sta 34+37.05
5° 03'
32+67.65
Sta 32+77.65
8° 47'
30+69.55
Sta 30+79.55
11° 08'
29+63.55
Sta 29+73.55
8° 38'
26+70.05
Sta 26+80.05
3° 47'
22+22.15
Sta 22+32.15
17° 35'
19+24.25
Sta 19+34.25
4° 0'
18+25.75
Sta 18+35.75


Lewis St
Ghetti St
Line
Dove St
Washington St

65° 04' to sta 265.12
39° 16' to sta 543.75

Nov 17 '11
Boulevard Line
West Side Road

Commencing at Stake + 9 4 S 100/11

Sta	B.S.	H.I.	Index	F.S.	Elev
	983	168.96			159.13 B.M. Iron Pin S. West Stake + 9 4 S
13+50 S △			142		1547
13			101		1588
12			38		1651
11+58 S △			12		1677
T.P.	715	175.45		066	168.30
11			67		1687
10			52		1702
9			31		1723
T.P.	955	184.47		053	174.92
8			75		1770
7			39		1806
T.P.	1174	195.68		053	183.94
6			105		1852
5			39		1918
T.P.	1179	206.85		062	195.06
4			97		1971
3			24		2044
T.P	1189	218.13		061	206.24
2			70		2111
				057	217.56 = 4' S of Sta 1 On Rock

* dist Bet Sta 1 & Sta 0 Running South = 100'
dist Bet Sta 0 & 0 Running North = 20' (Initial Point)

	970	227.26			217.56
1			96		2177
* 0+80			63		2210 Initial Point
1			48		2225
2			28		2245
3			10		2263
T.P.	1006	236.28		104	226.22
4			84		2279
5			67		2296
6 △			47		2316
7			24		2339
T.P	1049	245.90		087	235.41
8			82		2377
9			73		2386
10			47		2412
11			28		2431
12			15		2444
13			17		2442
T.P	1085	255.04		071	245.19
14			84		2466
15			73		2477

		25504			
16			42		2508
17			41		2509
18			30		2520
19			16		2534
T.P.	964	26385		083	25421
+42 △			85		2553
20			80		2558
21			65		2573
22			47		2591
23			41		2597
24			42		2596
25			26		2612
T.P.	615	26878		122	26263
26			61		2627
27			54		2634
28 △			50		2638
29			44		2644
30			27		2661
31			13		2675
T.P.	1032	27850		060	26818
32			84		2701
33 △			65		2720
34			49		2736
35			49		2736
36			64		2721
37			37		2748

Sta		27850			
	877	28677	05		27800
38			77		2799
39			62		2802
40			53		2815
41			47		2821
42			39		2829
43			31		2837
44			19		2849
T.P.	728	29215		190	28487
45			63		2858
46			54		2867
47			59		2862
48			43		2878
49			41		2880
50			40		2881
T.P.	607	29420		402	28813
51			59		2883
52			55		2887
53			54		2888
54			61		2881
55			55		2887
709 St △			55		2887
			754		28666

Check on B.M. N.E. cor. 5th & Upton

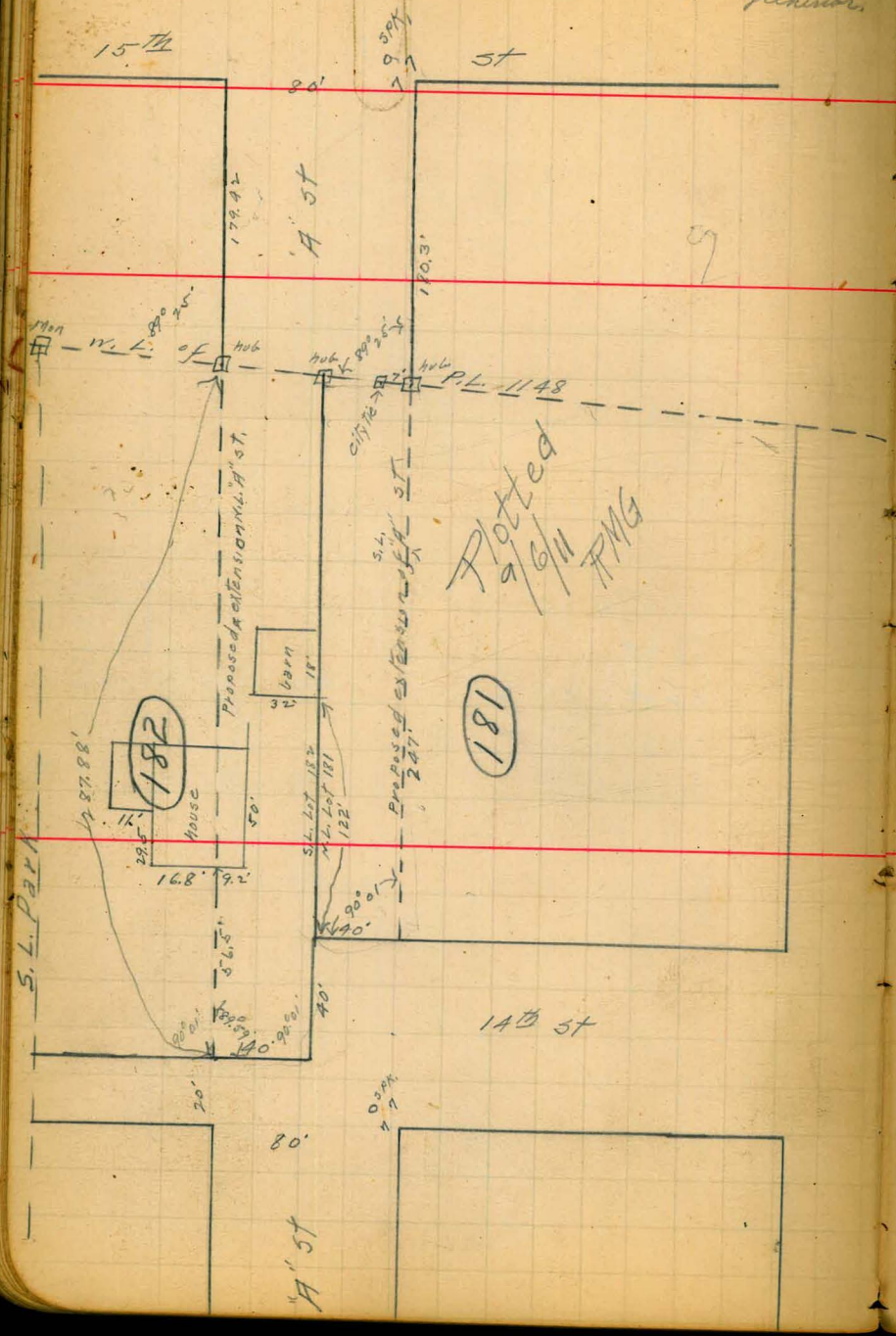
A Line

From Sta 3 on Line from
Initial Point to center of 9th St
To center of 7th St

	819	16766			159.47
8+92 3			111		156.6
8			108		156.9
7 △			49		162.8
T.P.	1087	17799		054	167.12
6			98		167.2
5 △			50		173.0
4			07		176.3
T.P.	1172	18912		059	177.40
3			59		173.2
T.P.	1068	19901		079	188.38
2			74		191.6
T.P	1171	21020		052	199.49
1+3			58		204.4

Survey for Proposed opening of "A" from 14th St East to W.L. of P.L. 1148

5/23/11 Dunkle, Evans, Nelson.



Line M6 Continued from Cen-
Hoffman and Hamilton running up
Hamilton.

Sta	B.S.	Hgt	Int	F.S.	Elev.	
T.P.	4.75	56.35			51.60	on Sta. M 14+72.6
T.P.	9.14	56.44		9.05	47.30	
17+16.3			13.6		42.8	
+5			10.0		46.4	
18			7 8		48.6	
+5			9 8		46.6	
+65			12 5		43.9	
19			8 8		47.6	
+96.3			6 2		50.2	on filling
+80			4 9		51.5	
	10.37	66.31		0 56	55.94	
21			13 4		54.9	
+50			7 6		58.7	
+75			3 0		63.3	
22			5 8		60.5	
+15			16 0		50.3	
+76.3			13 5		52.8	
23			13 1		53.2	
24			11 2		55.1	
+50			13 0		53.3	

Sta	B.S.	Hgt	Int	F.S.	Elev.
		66.31			
24			11 0		55.3
+15			5 9		60.4
+50			3 7		62.6
+57.3			3 2		63.1
	11 82	77.24		0 89	65.42
26			10 8		66.4
+50			1 8		75.4
	11 07	78.90		9.41	67.83
+70			1 7		77.2
+80			1 7		77.2
27			7 8		71.1
+50			17 0		61.9
+60			19 0		59.9
28			15 4		63.5
29			13 7		65.2
+70			15 0		63.9
30			12 3		66.6
T.P.	12 40	90.80		0 50	78.40
31			9 4		91.4
T.P.	11 94	102.18		0 50	90.24

Line M. Continued from Center Hoffman & Hamilton running of Hamilton line 8 feet South of previous one.

Sta	B.S.	Hgt	Int	F.S.	Elev.
M 1472.6	4.75	56.35			51.60
T.P.	9.99	57.29		9.05	47.30
18+04.3			14.2		43.1
+35			13.5		43.8
+40			9.6		49.7
19			8.6		48.7
+50			11.6		45.7
+63			13.2		44.1
20			8.3		49.0
21			7.1		50.2
+70			5.5		51.8
22			2.2		55.1
T.P.	9.87	66.24		.92	56.37
+50			1.7		64.5
+80			.5		65.7
23			8.2		58.0
+15			16.0		50.2
24			13.8		52.4
25			10.0		56.2
+50			8.8		57.4
+70			10.7		55.5

Sta	B.S.	Hgt	Int	F.S.	Elev.	
		102.18	0.15	0.15		
T.P.	11.50	113.53	12.35	0.15	102.03	
32			2.1		121.4	
T.P.	6.66	124.76	124.76	0.43	123.10	
+37.5			1.7		128.1	
T.P.	5.09	123.34		11.51	118.25	
33			1.4		121.9	
+43			9.0		114.3	
T.P.	.52	112.05		11.81	111.53	
T.P.	.79	101.06		11.78	100.27	
34			4.2		96.9	
+35			7.3		93.7	
35			9.0		91.1	
54 left of 35			18.3		82.7	
+5			15.0		86.1	
+85.9			14.2		86.9	
BM				6.54	94.52	on Post Cemetery fence 27 posts from Gateway

Sta	B.S.	H.I.	Int	F.S.	El.
26		66.24	4.6		51.6
+5			1.2		55.1
T.P.	10.43	76.16		.51	65.73
27			6.5		69.7
T.P.	7.40	81.72	1.8	1.84	74.32
+50			1.8		79.9
+70			1.8		79.9
T.P.	2.90	72.93		10.99	70.73
28			1.8		71.1
+40			10.5		62.4
+70			13.8		59.1
29			10.0		62.9
30			7.5		65.4
+52			9.2		63.7
31			4.4		68.5
T.P.	12.06	84.19		.80	72.13
+50			9.6		74.6
T.P.	11.85	95.46		.58	83.61
32			10.5	.51	85.0
T.P.	10.89	105.84		.51	94.95
+50			7.5		98.3

Sta	B.S.	H.I.	Int	F.S.	Elev.	
T.P.	10.92	116.21		.55	105.29	
33			2.3		113.9	
T.P.	4.56	119.66		1.11	115.10	
+27			1.7		118.0	
34			9.0		110.7	
			2.10		117.56	(on plug 32+37!)
T.P.	0.82	108.60		11.88	107.78	
T.P.	1.84	98.39		11.75	96.85	
	1.05	88.49		11.28	87.11	
35			2.2		86.3	
+20			3.9		84.6	
36			4.4		84.1	
+20			3.9		84.6	
+55			10.1		78.4	
+72.5			9.3		79.2	
			4.33		84.16	B.M. on Post 27' Post from Gateway

Sta	B.S.	Hgt	Int	FS	Elev.	
			105.54			
	11 62	63.22		.55	151.60	Sta M 14+26
H.P. 3.25			47		58.5	Curb H 13+00
T.P	11 47	73.94		0.75	62.47	
1			79		66.0	
T.P	11 42	84.76		0.60	72.24	
+56			34		80.6	
T.P.	4 22	86.02		2.96	81.80	Zone Mean well pretty coarse with boulders
+70			28		83.4	
2			31		83.1	
3			14		72.2	
+50			75		80.7	
+75			41		82.1	
4			84		77.8	
+75			150		71.2	
5			92		77.0	
T.P.	11 44	96.83		0.63	85.39	
+50			71		89.9	
6			35		93.5	
5 1/2 m			36		93.4	
7			27		94.3	
T.P.				1.48	95.35	

Sta	B.S.	Hgt	Int	FS	Elev.	
+50	6.70	101.75			95.35	
8			37		98.2	
+96			76		94.3	
9			74		94.5	
10			63		95.8	
+50			95		96.4	
11			46		97.3	
T.P.	5.59	104.54		2.80	98.95	
12			76		97.1	
13			49		99.8	
14			74		97.1	
T.P.	0.05	92.65		11.94	92.60	
15			50		97.3	
+16			190		72.8	gullies
16			33		85.5	
T.P.	11.42	102.69		1.38	91.27	
+58			62		94.7	
17			25		98.4	
18			38		97.1	
T.P.				5.67	97.02	

Levels on 32nd (South).
commencing at cor 32nd + NC St
Elev taken every 100'
no stakes driven

Sta.	BS.	H.I.	Inter	FS	Elev.	
	6 17	15617			150.00	B.NC. cor NC + 32 St
1			77		1483	
2			94		1468	
3			82		1480	
4			48		1514	
T.P.	11 44	16661		100	15517	
5			63		1603	
6			17		1649	
T.P.	3 24	16920		865	16596	
7			47	4	1645	
8			89		1603	
9			103		1587	
10			127		1565	
T.P.	119	15846		1193	15727	
11			29		1556	
12			48		1537	
13			70		1515	
14			69		1516	
15			91		1494	
16			111		1474	
T.P.			70	1081	14765	
	22 04			2439		

Over 32nd St.

160
128
288

128
900
240
1500
1111

Oct 20th

Sta.	B.S.	H.I.	Incl.	F.S.	Elev	
	208	96.14			9406	BM. NC
26			37		924	
27			74		887	
28			75		886	
T.P.	435	92.84		765	8849	
29			49		879	
30			68		860	
31			39		889	
32			35		893	
T.P.	1055	102.81		058	9226	
33			70		958	
T.P.	1200	114.25		056	10225	
34			68		1074	
T.P.	1190	125.58		057	113.88	
35			67		1189	
T.P.	1167	136.57		068	12490	
36			43		1323	
T.P.	1125	147.18		064	13593	
37			53		1429	
				065	14653	
	6380			1133		

On R.S.

101.148.66

17		20	1466	
18		50	1436	
19		154	1333	Con 324 + R 65
20		135	1352	
T.P.	151128.30	1187	13679	
T.P.	077127.73	1134	12696	
21		35	1242	
22		92	1185	
T.P.	075 116.57	1191	11382	
23		64	1192	
T.P.	120105.86	1191	10466	
24	524	46	1013	
25		106	953	center of Bridge
B.M.		1180	9406	Bridge Jack in S.E. corner Bridge on R.S.
		5883		
		524		
		5359		

On R.S.

134
84
150
184.1

Sta	B.S.	H.I.	Inter	F.S.	Elev	
	1030	156.83			146.53	
3.8			86		148.2	
480			51		151.7	Cor 36th & R. St.
1-39			50		1518	
2-40			71		149.7	
3-41			68		1500	
4-42			88		1500	
T.P.	541	154.95		729	14954	
5-43			52		1497	
6			71		1498	
7			71		1498	
8			90		1459	
9			61		1488	
T.P.	891	154.68		918	145.77	
10			96		1451	
11			87		1460	
12			83		1464	
13			88		1459	
420			89		1458	Plug Cents Mennett St on Rail o line
14			34		1523	
T.P.				092	153.76	Running Each
	2462			1739		

Cor. 3rd & St

Sta	B.S.	H.I.	Inter	F.S.	Elev	
	957	164.33			15376	
15			78		1555	
16			17		1616	
T.P.	1013	172.71		075	162.58	
17			34		1693	
T.P.	706	179.24		053	172.18	
18			30		176.2	
19			115		1677	
20			74		171.8	
21			52		1740	
22			52		1740	
T.P.	294	176.94	94	524	174.00	
23			29		1746	
24			54		1715	
25			34		1735	
470			34		1735	
				296	17898	B.M. on Plug cor Cumberland Street
T.P.	174	166.97		1171	165.23	
T.P.	138	156.61		1184	155.23	
	357	148.86		1153	145.09	
	222	139.28		1160	137.06	
				508	132.20	

Running Each On Pavilion Line

Levels on Horn Creek
Oct 30/84
B Line

Sta	B.S.	H.I.	Inter.	F.S.	Elev.
X.0	1167	63.27			51.60
+ 56 3			47		586 Centre St
T.P.	1177	74.22		082	62.45
1			82		660
T.P.	1118	84.14		120	7296
+ 52			28		873
T.P.	256	86.05		065	8349
2			31		829
3			144		716 Gulley
+ 36 3 △			70		790 Howard St
+ 50			57		803
4			50		810
+ 75			155		705
5			93		767
T.P.	1185	97.22		068	8537
+ 50			76		896
6			38		834
+ 16 3 △			38		824 Merritt St
7			29		843
T.P.				123	9599

X. Error of 4.2 ft on account of taking wrong B.M.

Sta	B.S.	H.I.	Inter.	F.S.	Elev.
Sta	543	101.42			9599
8			46		968
+ 96 3 △			66		948 Pardee St
9			69		945
10			58		956
+ 50			95		919
11			41		973
+ 76 3 △			51		963 Passmore St
12			42		972
T.P.	381	102.94		229	9913
13			30		999
14			58		971
T.P.	060	91.64		1190	9104
15			140		976
+ 15			175		741 Ravine
16			16		756
T.P.	1175	102.64		075	9089
+ 50			56		970
17			18		1008
18			30		990

91.81
4.16
7.65

58.20
4.4
73.8

Sta	B.S.	H.I.	Inter	F.S.	Elev	
	7.37	58.97			51.60	Sta 9M 14+72.6
			47		54.3	
	7.47	69.92		0.82	58.15	

/		10264.			
19.			3.9	987	
+84.5			7.0	956	Jackson Jones El. Carpenter Ground
B.M. Plug				7.0 3956.1	
				/	
	1.91	92.81		11.74 90.90	
				4.61 88.20	

+	0.28	− 11.20	
+	1.38	− 11.00	
+	1.28	− 11.69	
+	2.73	− 8.59	
	5.67	42.57	
		5.67	
		36.90	

+ 10.37
5.97
4.30

5.18

M: Line

Sta	B.S.	Hof I	Int	F.S.	El.	
	6.34	56.34			50.0	B.M. Cor M + 32nd
B.M.	3.52	103.52			100.00	
M 0			2.23		101.3	
1			2.7		100.8	
2			4.2		99.3	
T.P.	1.82	93.46		11.88	91.64	
3			5.18		88.3	
+26			9.2		84.3	
T.P.	.77	82.41		11.82	81.64	
+40	.77		6.6		75.8	
+60			10.4		72.0	
T.P.	.67	71.33		11.75	70.66	
+80			7.1		64.2	
+90			3.0		68.3	
4			3.6		67.7	
+60			11.0		60.3	
T.P.				11.91	59.42	

Line A from a point 127.7 feet North of Center of M + 32nd Streets running thence E.

Sta	B.S.	Hof I	Int	FS	Elevation	
ABM	2.83	102.83			100.0	S.E. Cor M + 32nd
A 0			.89		101.9	
+5			9.0		93.8	
1			10.5		92.3	
+30			11.8		91.0	
+40			8.3		94.5	
2			9.1		93.7	
T.P.	.33	91.43		11.73	91.10	
+5			5.0		86.4	
3			6.0		85.4	
+37			7.5		83.9	
+53			9.0		82.4	
	0.00	79.50		11.93	79.50	
	1.0	68.00		12.50	67.00	
	.50	58.10		10.40	57.60	
4+27.4	2.13	54.09		6.14	51.96	
5			2.10			

Continuation of Line M.

Sta	B.S.	Hot'g	Int	F.S.	El.	
M 4+77.4	2.13	54.09			51.96	
" 5			2.1		52.0	
+5			4.		50.1	
6			5.7		48.4	
+5			5.1		49.0	
7			4.8		49.3	
+5			5.7		48.4	
8			5.2		48.9	
9			4.3		49.8	
10			4.5		49.6	
11			4.5		49.6	
12			5.0		49.1	
+5			8.5		45.6	
13			6.8		47.3	
14	10.43	60.01	4.5	4.51	49.58	
+72.6			8.40		51.6	on plug
T.P.				5.04	54.97	on plug Cen. Tomlin & Hoff.

Sta	B.S.	Hot'g	Int	F.S.	El.	
T.P.	4.75	56.35			51.6	
	11.92	59.22		9.05	47.30	
Plug			17.50		41.72	Cen. Hamilton & Hoff —
+5			11.0			
1			10.5			
+5			13.9			
2			10.1			
+5			9.5			
+80			9.0			Cen. Hamilton & Howard
1			7.2			
T.P.				.38		

84.20
57.60
36.60

Stake 7" S.E. cor Iron Pin 10'S. cor
Elev 159.47

Stake 9" S.E. cor Spike Nor cor
Elev 159.18

N. E. 286.74
5" Upao.

11.12
10.92
.20

14.4

278.50

294.20
286.74
7.46

727.17
94.00
~~24.77~~
721.57

101.0
12.15
88.15

871.17
727.17
144.00

727.17
134.12
861.17

TRAVERSE TABLE FOR TRANSIT BOOK,

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.39	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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