475

400

LEMEL

F.B. 475

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

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 JUL 11 1964

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

Crocker Quality

LEVEL BOOK

No. 400

COMMUNI CONSENSU TRADE MARK PRIMO

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

FROM
Loring's Book Store

Slopes on Collier St 300' n of Adams

	4.00	385.43		381.43
	9.20	378.93	6.70	378.73
	-.05	366.65	12.43	366.70
275' n of Adams W.L.			3.4	363.2
34' W of W.L.			13.0	
300' n of Adams W.L.			5.5	
64' W of W.L.			33.6	
325' n of Adams W.L.			2.8	
66' W of W.L.			34.6	
340' n of Adams				
85' W of W.L.			41.0	
350				

Clough
Owen
Fitzpatrick

Levels on W Line of 4th St (80')
for Sea Wall
Palm to Spruce

1

4-11-11					NE ⊙ 4th + Red Wood
	1.74	272.12		270.38	
60' N of Red Wood			2.30	269.8	
50' N " "			4.0	268.1	
25' N " "			9.0	263.1	
N Line " "			6.0	266.1	
Center " "			5.0	267.1	
1/4 + 5' " "			5.2	266.9	
S Line " "			13.4	258.7	
10' S " "			14.5	257.6	
25' S " "			11.7	260.4	
50' S " "			9.4	262.7	
65' S " "			6.5	265.6	
75' S " "			7.1	265.0	
	0.93	260.08	12.97	259.15	
100' S " "			3.3	256.8	
120' S " "			14.0	246.1	
125' S " "			13.0	247.1	

		260.08		
140' S	of Red Wood		9.7	250.4
150' S	" "		9.3	250.8
175' S	" "		11.4	248.7
200' S	" "		15.1	245.0
225' S	" "		13.0	247.1
233' S	" "		11.8	248.3
235' S	" "		18.8	241.3
240' S	" "		16.8	243.3
250' S	" "		5.3	255.8
257' S	" "		1.3	258.8
265' S	" "		0.2	259.9
275' S	" "		3.2	256.9
300' S = N S Quince St (80)			12.5	247.6
TP	9.43	257.40	12.11	247.79
4' S of Quince St		70 ft of Cement wall	12.8	244.6
Center of	"		12.8	244.6
S S of	"		12.8	244.6

		257.40		
20' S of Quince		= End of wall	12.8	244.6
25' S "	"		9.7	247.7
42' S "	"		8.6	248.8
50' S "	"		5.7	251.7
75' S "	"		1.4	256.0
100' S "	"		0.9	256.5
125' S "	"		10.1	247.3
TP	3.06	248.22	12.24	245.16
150' S "	"		9.8	238.4
175' S "	"		12.0	236.2
200' S "	"		14.0	234.2
225' S "	"		11.9	236.3
237' S "	"		10.3	237.9
250' S "	"		16.0	246.6
TP	12.75	260.57	0.40	247.82
257' S "	"		6.8	253.8
260' S "	"		3.8	256.8
TP	12.58	271.09	2.06	258.51

27.09

275' S of Quince st (Stairs + Porch)	12.5'	258.6
275' S on top of Wall	4.7	266.4
300' S = N.E. of Palm st	4.6	266.5

Levels for Slopes 25' E of E L of Georgia St (60' wide)

	8.32	311.28		302.96	mm Cypress Indian
	17.3	301.61	12.00	299.28	
	5.14	293.56	12.59	288.42	
175' S of Robinson			1.0	292.6	
200' S "	"		7.1	286.5	
225' S "	"		12.6	281.0	
TP	5.24	286.64	12.16	281.40	
250' S "	"		11.8	274.8	
275' S "	"		9.6	277.0	
300' S	"		8.1	276.5	
325' S "	"		7.5	279.1	
350' S "	"		7.6	279.0	
375' S "	"		7.0	279.6	
400' S "	"		7.1	279.5	
425' S	"		8.4	278.2	
450' S	"		9.9	276.7	
475' S	"		11.2	275.4	

286.64

500' S of Robinson			13.0	273.6
TP	3.35	278.28	11.71	274.93
525' S	"	278.3	7.8	270.5
550' S	"		9.7	268.6
575' S	"		11.0	267.3
600' S	"		11.3	267.0
625' S	"		11.1	267.2
650'			10.2	268.1
675' S = N L Cypress (80)			9.4	268.9
Center	"		6.2	272.1
S Sin	"		3.7	274.6
25' S	"		3.2	275.1
50' S	"		2.7	275.6
TP	6.75	282.18	2.85	275.43
75' S	"	282.2	4.5	277.7
100' S	"		6.6	275.6
125' S	"		6.7	275.5

28218

150' S of Cypress	282.2	9.0	273.2	
175' S "	282.2	9.4	272.8	
200' S "		10.5	271.7	
225' S "		8.9	273.3	
250' S "		10.1	272.1	
275' S "		8.0	274.2	
300' S "		8.2	274.0	
325' S "		6.6	275.6	
TP 11.62	28746	6.34	275.84	
350' S "	287.5	13.0	274.5	
375' S "		11.3	276.2	
400' S "		11.7	275.8	
425' S "		11.2	276.3	
450' S "		10.7	276.8	
475' S "		11.0	276.5	
500' S "		11.0	276.5	

28746

5

525' S of Cypress		10.3	277.2
550' S "	287.5	10.8	276.7
575' S "		9.4	278.1
600' S "		10.7	276.8
625' S "		11.0	276.5
650' S "		10.9	276.6
679.5' = 22 Myrtle		10.5	277.0

4/14/11 | Clough / Donnar / Fitzpatrick

X Sec of Collier st (80')

N Line of Adams Ave Entire Length

	5.25	386.68		381.43
	N Line of Adams ave			
E			9.3	377.4
bh			9.9	376.8
y			10.3	376.4
b			10.9	375.8
y			11.7	375.0
bh			11.9	374.8
W			12.1	374.6
	7' N of Adams ave			
W			6.1	380.6
	+10'		9.0	377.7
bh			9.3	377.4
y			10.0	376.7
b			10.4	376.3
y			9.6	377.1
bh			8.5	378.2
E			7.5	379.2

386.68

Collier

see Grade Book 76.

	25'	N of	Adams ave	
E			6.1	380.6
bh			6.7	380.0
y			8.6	378.1
b			8.9	377.8
y			9.2	377.5
u			6.8	379.9
W			6.0	380.7
	50'	N of	Adams ave	
W			6.3	380.4
bh			6.6	380.1
y			8.4	378.3
b			8.3	378.4
y			7.9	378.8
u			6.6	380.1
E			6.0	380.7

38668

75' m f Adams am

E	4,5	381,1
th	6,6	380,1
y	7,6	379,1
b	8,3	378,4
y	8,0	378,7
th	6,8	379,9
W	6,1	380,5

100' m f Adams am

W	6,3	380,4
th	6,9	379,8
y	7,6	379,1
b	7,5	379,1
y	7,1	379,5
th	6,0	380,7
E	5,7	381,0

125' m f Adams am

E	5,0	381,7
th	6,3	380,4
y	6,3	380,4
b	6,7	380,0
y	6,7	380,0
th	6,5	380,1
W	6,3	380,4

150' m f Adams am

W	6,5	380,1
th	6,3	380,4
y	6,4	380,3
b	6,3	380,4
y	6,0	380,7
th	6,0	380,7
E	5,7	381,0

38668

	175'	n of	Adams ave	
E			4,0	382,7
bh			4,9	381,8
y			6,0	380,7
b			6,4	380,3
y			6,4	380,3
bh			6,7	380,0
w			7,1	379,6
	200'	n of	Adams ave	
w			7,0	379,7
bh			6,6	380,1
y			6,5	380,2
b			6,4	380,3
y			6,0	380,7
	+4'		4,8	381,9
bh			4,7	382,0
E			5,1	381,6

38668 Collier

8

	225'	n of	Adams ave	
E			5,3	381,4
bh			5,5	381,2
y			5,3	381,4
	+9		6,8	379,9
b			7,3	379,4
y			7,3	379,4
bh			7,1	379,6
w			7,4	379,3
	245'	n of	Adams ave	
20' w of w.d.			8,7	378,0
w			8,5	378,2
bh			8,2	378,5
y			8,0	378,7
b			7,8	378,9
y			7,7	379,0
	+5'		6,4	380,3
bh			6,4	380,3
E			5,6	381,1
TP	1,79	382,88	5,59	381,09

38664
38288

275' n of Adams

E	2.5	380.4
bl	3.4	379.5
y	4.8	378.1
b	4.4	378.5
y	5.6	377.3
u	13.0	369.9
W	20.0	362.9
20' w of WL	25.2	357.7

300' n of Adams

E	2.2	380.7
bl	3.6	379.3
y	4.8	378.1
b	4.9	378.0
y	6.2	376.7
E	13.5	369.4
W	21.7	361.2
60' w of WL	48.4	334.5

Slope continued

38288

Collier

9

60' w of WL 315' n of Adams 56.3

325' n of Adams on

E	2.1	380.8
bl	2.9	380.0
7 7/8	3.3	379.6
y	4.4	378.5
	4.9	378.0
b	5.0	377.9
y	5.5	377.4
4	6.4	376.5
u	11.6	371.3
W	19.6	363.3
60' w of WL	48.7	334.2
TP 4.40	415	378.73

Slopes in front of this Book

383.13

350' n of Adams an

E		0.0	383.1
tb		1.2	381.9
	+6'	2.1	381.0
	+9'	4.2	378.9
y		4.1	379.0
t		4.0	379.1
y		5.0	378.1
	+3'	5.5	377.6
tb		9.8	373.3
w		17.1	366.0
40' w of wd		36.3	346.8
50' w of wd		38.0	345.1

383.13 Collier

375' n of Adams an

E		1.1	382.0
tb		1.6	381.5
	+7'	1.9	381.2
	+9'	3.4	379.7
y		3.2	379.9
t		3.4	379.7
y		3.9	379.2
tb		6.5	376.6
w		10.4	372.7
30' w of wd		22.3	360.8

400' n of Adams an

w		6.2	377.9
tb		4.6	378.5
y		3.0	380.1
t		2.4	380.7
y		2.2	380.5
	+3'	2.7	380.4
	+7'	1.3	381.8
tb		1.0	382.1
E		0.0	383.1

383.13

	425'	n of	Adams	
E			0.5	382.6
bh			1.0	382.1
	+7'		1.0	382.1
	+9'		2.2	380.9
y			2.2	380.9
b			1.8	381.3
y			2.4	380.7
bh			2.6	380.5
w			3.2	379.9
	450'	n of	Adams	
w			2.4	380.7
bh			2.2	380.9
y			2.0	381.1
b			1.3	381.8
y			2.0	381.1
	+2'		2.0	381.1
bh	+6'		0.5	382.6
~~E~~ P	7.66	388.95	1.84	381.29
bh			5.8	383.2
E			6.2	382.8

388.95

Collier

11

	475'	n of	Adams	
E			6.0	383.0
bh			6.3	382.7
	+9'		6.5	382.5
	+11'		7.4	381.6
y			7.4	381.6
b			6.9	382.1
y			7.3	381.7
b			7.6	381.4
w			8.0	381.0
	500'	w of	Adams am	
w			7.6	381.4
bh			7.3	381.7
y			7.1	381.9
b			6.5	382.5
y			7.0	382.0
	+2'		7.0	382.0
	+4'		6.4	382.6
bh			6.2	382.8
E			5.9	383.1

5 25' n of Collier

E	5.7	383.3
th	6.0	383.0
	6.4	382.6
4	6.7	382.3
th	6.2	381.8
7	6.7	381.3
th	7.1	381.9
W	7.2	381.8

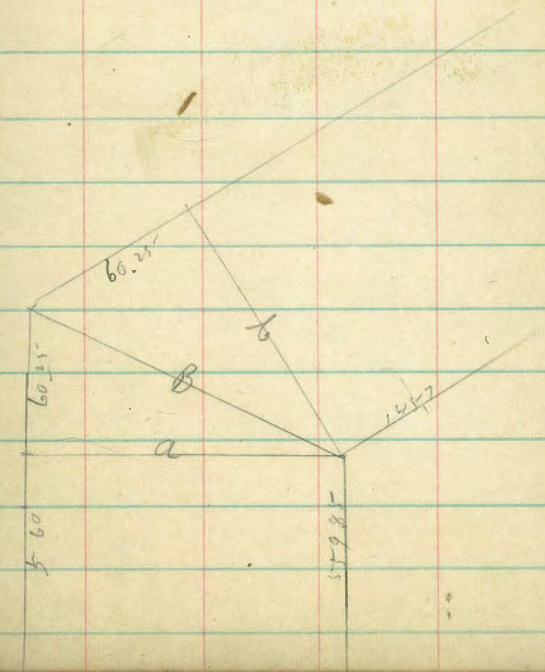
(a) 5 60' n = angle on E line

W	7.2	381.8
th	6.8	382.2
7	6.6	382.4
4	5.8	383.2
7	6.3	382.7
th	5.1	383.9
E	5.2	383.8

Collier

(101) (B) 5 60' n on E
620.25 n on W } = line across angle

E	5.2	383.8
th	5.6	383.4
7	6.0	383.0
6	5.8	383.2
4	6.9	382.1
th	7.0	382.0
W = angle on W ∠	7.3	381.7



38895

angle on S } on
60.45' E on n L }

h L	6,0	383,0
bl	6,0	383,0
y	5,8	383,2
b	5,3	383,7
y	5,7	383,3
bl	5,4	383,6
S = angle	5,2	383,8

25' E of angle

S	4,7	384,3
bl	4,9	384,1
y	5,2	383,8
b	4,9	384,1
y	5,4	383,6
bl	5,2	383,8
n	5,7	383,3

50 E of angle

h	5,6	383,4
bl	5,4	383,6
y	4,9	384,1
b	4,5	384,5
y	4,8	384,2
bl	4,2	384,8
S	4,5	384,5

75' E of angle

S	4,4	384,6
bl	4,5	384,5
y	4,5	384,5
b	4,0	385,0
y	4,5	384,5
bl	4,8	384,2
n	5,2	383,8

388.95

100' E of Angle

n		4,5	384,5
bh		3,7	385,3
	+7'	3,3	385,7
	+9'	4,5	384,5
y		4,3	384,7
b		3,8	385,2
y		4,4	384,6
	+3	3,0	386,0
bh		2,8	386,2
S		3,4	385,6

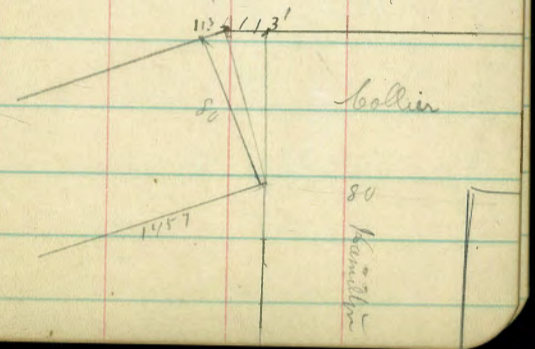
125' E of Angle

S		4,0	385,0
bh		4,4	384,6
H		4,2	384,8
b		3,6	385,4
y		4,0	385,0
bh		4,3	384,7
n		3,6	385,4

388.95

1457 E on S = Wd of Hamilton on S
1567 E on n = Angle on Wd

n			4,0	385,0	
bh			4,1	384,9	
y			4,0	385,0	
b			3,3	385,7	
y			3,7	385,3	
bh			2,7	386,3	
S			1,8	387,2	
TP	605.	393.16	18,4	387,11	SW Hub Hamilton Collier



(11.3 E of Angle on n) W Sin of Hamilton St (80)

s		6,0	387,2
bl		6,8	386,4
y		7,9	385,3
l		7,4	385,8
y		8,0	385,2
bl		7,2	386,0
n		7,7	385,5

W bl of Hamilton

n		6,7	386,5
bl		5,9	387,3
y	+8' +9	6,2 / 7,5 / 7,6	387,0 / 385,7 / 385,6
l		7,3	385,9
y		7,9	385,3
bl		7,5	385,7
s		7,6	385,6

See transitman

W 1/4 of Hamilton

s		7,4	385,8
bl		7,8	385,4
y		7,6	385,6
l		7,3	385,9
y		7,4	385,8
bl	+3' +5'	7,3 / 6,1 / 6,1	385,9 / 387,1 / 387,1
n		7,2	386,0

Center of Hamilton

n		7,1	386,1
bl		7,1	386,1
y		7,2	386,0
l		7,1	386,1
y		7,1	386,1
bl		7,0	386,2
s		6,8	386,4

393.16

E 1/4 of Hamilton

S	7,3	385,9
bh	7,1	386,1
y	7,2	386,0
b	6,9	386,3
y	7,1	386,1
bh	7,3	385,9
N	7,4	385,8

E bb of Hamilton

N	7,4	385,8
bh	7,1	386,1
y	7,1	386,1
b	6,6	386,6
y	7,1	386,1
bh	6,4	386,8
S	6,3	386,9

393.16 Collier

E Sin of Hamilton

S	5,3	387,9
bh	6,7	386,5
y	7,0	386,2
b	6,4	386,8
y	7,0	386,2
bh	6,6	386,6
N	7,0	386,2

25' E of Hamilton

N	6,4	386,8
bh	6,2	387,0
y	6,5	386,7
b	6,0	387,2
y	6,7	386,5
bh	6,0	387,2
S	6,7	386,5

50' E of Hamilton

S	6.6	386.6
bl	6.6	386.6
4	6.6	386.6
b	5.8	387.4
4	6.4	386.8
bl	6.2	387.0
n	6.0	387.2

75' E of Hamilton

n	5.9	387.3
bl	5.9	387.3
4	6.3	386.9
b	5.6	387.6
4	6.2	387.0
bl	6.2	387.0
S	4.9	388.3

100' E of Hamilton

S	6.0	387.2
bl	6.1	387.1
4	5.8	387.4
b	5.4	387.8
4	6.1	387.1
bl	5.5	387.7
n	5.2	387.6

125' E of Hamilton

n	4.9	388.3
bl	5.3	387.9
4	5.7	387.5
b	5.1	388.1
4	5.7	387.5
bl	5.0	388.2
S	5.4	387.8

150 E of Hamilton

S	5.4	387.8
bl	5.7	387.5
y	5.2	388.0
l	4.8	388.4
y	5.5	387.7
bl	6.0	387.2
h	5.5	387.7

175' E of Hamilton

h	5.6	387.6
bl	5.3	387.9
y	5.3	387.9
l	4.7	388.5
y	5.2	388.0
bl	5.6	387.6
S	5.2	388.0

200' E of Hamilton

S	4.3	388.9
bl	4.8	388.2
y	5.1	388.1
l	4.4	388.8
y	5.0	388.2
bl	5.7	387.5
h	5.4	387.8

225' E of Hamilton

h	5.0	388.2
bl	5.5	387.7
y	5.0	388.2
l	4.3	388.9
y	4.8	388.4
bl	5.3	387.9
S	4.5	388.7
473	393.54	4.33 388.83

393.56

250' E of Hamilton

S	4.6	389.0
bl	5.3	388.3
y	5.0	388.6
b	4.6	389.0
y	5.3	388.3
bl	6.0	387.6
n	5.5	388.1

275' E of Hamilton

n	5.0	388.6
bl	5.5	388.1
y	5.1	388.5
b	4.7	388.9
y	5.3	388.3
bl	4.7	388.9
S	5.1	388.5

393.56

Collier

10

300' E = W L Oregon st (80)

S	5.2	388.4
bl	5.3	388.3
y	5.4	388.2
b	4.8	388.8
y	5.2	388.4
bl	5.5	388.1
n	5.6	388.0

W bl of Oregon st

n	5.6	388.0
bl	5.1	388.5
y	5.6	388.0
b	5.0	388.6
y	5.5	388.1
bl	5.2	388.4
S	5.2	388.4

393.56

W 1/4 of Oregon st

S	5.4	388.2
bl	5.4	388.2
4	5.6	388.0
l	5.3	388.3
4	5.6	388.0
bl	6.0	387.6
h	6.0	387.6

Center of Oregon st

h	5.0	388.6
bl	5.0	388.6
4	5.1	388.5
l	5.1	388.5
4	5.0	388.6
bl	4.9	388.7
S	4.9	388.7

393.56

E 1/4 of Oregon

S	5.4	388.2
bl	5.5	388.1
4	5.5	388.1
l	5.4	388.2
4	5.6	388.0
bl	5.8	387.8
h	5.8	387.8

E bl of Oregon

h	4.4	389.2
bl	5.7	387.9
4	5.7	387.9
l	5.3	388.3
4	5.8	387.8
bl	5.4	388.2
S	5.4	388.2

		393.56			
	E Line of Oregon				
S			5.1	388.5	
bb			4.7	388.9	
4			5.5	388.1	
b			5.0	388.6	
4			5.7	387.9	
bb			5.7	387.9	
N			5.1	388.5	
TP	5.14	393.52	5.18	388.38	NE of Oregon
	25'	E of Oregon st			
N			5.3	388.2	
bb			5.1	388.4	
4			5.6	387.9	
b			4.9	388.6	
4			5.6	387.9	
bb			5.5	388.0	
S			5.1	388.4	

		393.52			Collier
	50'	E of Oregon			
S			4.3	389.2	
bb			4.8	388.7	
4			5.2	388.3	
b			4.8	388.7	
4			5.5	388.0	
bb			4.5	389.0	
N			5.2	388.3	
	75'	E of Oregon			
N			4.9	388.6	
bb +5			3.2	390.3	
			3.5	390.0	
4			5.2	388.3	
b			4.4	389.1	
4			5.0	388.5	
bb			5.2	388.3	
S			5.2	388.3	

393.52

100' E of Oregon

S	5.3	388.2
bh	5.1	388.4
y	4.9	388.6
b	4.3	389.2
y	4.7	388.8
bh	4.5	389.0
R	4.6	388.9

125' E of Oregon

R	4.5	389.0
bh	4.6	388.9
y	4.8	388.7
b	4.1	389.4
y	4.5	389.0
bh	4.6	388.9
S	4.7	388.8

150' E of Oregon

S	3.8	389.7
bh	3.2	390.3
y	4.4	389.1
b	3.8	389.7
y	4.6	388.9
bh	3.3	390.2
R	2.1	391.4

175' E of Oregon

R	3.2	390.3
bh	3.3	390.2
y	4.2	389.3
b	3.7	389.8
y	4.3	389.2
bh	4.7	388.8
S	4.8	388.7

		392,52		
	200'	E f	Oregon	
S			4,3	389,2
bh			4,5	389,0
y			4,0	389,4
b			3,5	390,0
y			4,0	389,5
bh			3,1	390,4
N			3,0	390,5
	225'	E f	Oregon	
N			2,6	390,9
bh			2,9	390,6
y			3,7	389,8
b			3,2	390,3
y			3,9	389,6
bh			3,2	390,3
S			2,4	390,1

		393,52		
	250'	E f	Oregon	
S			4,4	389,1
bh			4,3	389,2
y			3,7	389,8
b			3,2	390,3
y			3,6	389,9
bh			2,4	391,1
N			2,3	391,2
TP	6,01	397,34	2,19	391,33
	275'	E f	Oregon	
N			5,7	391,6
bh			6,0	391,3
y			6,6	390,7
b			6,7	390,6
y			7,2	390,1
bh			7,1	390,2
S			7,5	389,8

397.34

300' E = W.S. of Idaho St (80)

S			6.7	390.6
bb			6.9	390.4
y			7.0	390.3
b			6.3	391.0
y			6.7	390.6
bb			6.6	390.7
n			5.6	391.7

W bb of Idaho

n			5.3	392.0
bb			5.6	391.7
y			6.6	390.7
b			6.2	391.1
y			6.8	390.5
bb			7.3	390.0
S			7.0	390.3

397.34

Collier

24

W 1/4 of Idaho

S			7.6	389.7
bb			7.0	390.3
y			6.8	390.5
b			6.0	391.3
y			6.4	390.9
bb			6.0	391.3
n			5.6	391.7

Center of Idaho

n			5.0	392.3
bb			5.4	391.9
y			6.3	391.0
b			5.9	391.4
y			6.5	390.8
bb			6.4	390.9
S			6.5	390.8

397.34

E ¼ of Idaho

S	397.34	7.0	390.3
bh		6.8	390.5
7		6.3	391.0
b		5.6	391.7
7		6.0	391.3
bh		5.8	391.5
h		5.5	391.8

E bh of Idaho

h		4.0	393.3
bh		4.6	392.7
7		5.9	391.4
b		5.4	391.9
7		6.3	391.0
bh		6.8	390.5
S		6.8	390.5

E line of Idaho

S	397.34	6.1	391.2
bh		6.5	390.8
7		6.1	391.2
b		5.4	391.9
7		5.6	391.7
bh		5.1	392.2
h		4.9	392.4

25 E of Idaho

h		4.5	392.8
bh		5.3	392.0
7		5.5	391.8
b		5.2	392.1
7		5.8	391.5
bh		5.7	392.2
S		6.3	391.0

397.34

50' E of Idaho

S	397.34	6.0	391.3
bb		5.6	391.7
y		5.6	391.7
b		5.0	392.3
y		5.5	391.8
bb		5.1	292.2
h		5.2	392.1

75' E of Idaho

h		4.9	392.4
bb		5.2	392.1
y		5.1	392.2
b		4.7	392.6
y		5.5	391.8
bb		5.6	391.7
S		5.7	391.6

397.34

Ballin

100' E of Idaho

S	397.34	5.6	391.7
bb		5.0	392.3
y		5.7	391.6
b		4.8	392.5
y		5.3	392.0
bb		4.7	392.6
h		5.0	392.3

125' E of Idaho

h		5.0	392.3
bb		5.1	392.2
y		5.5	391.8
b		4.8	392.4
y		5.6	391.7
bb		5.5	3918
S		5.5	391.8

397.34

	150'	E f	Idaho	
S		397.34	5,5	391.8
bh			5,5	391.8
y			5,5	391.8
b			5,0	392.3
y			5,1	392.2
bh			4,9	392.4
n			4,8	392.5
	4,50	397.13	4,71	392.63
	175'	E f	Idaho	
n			4,4	392.7
bh			4,6	392.5
y			5,0	392.1
b			4,7	392.4
y			5,2	391.9
bh			5,2	391.9
S			5,2	391.9

397.13 Collier

	200'	E f	Idaho	
S		397.13	5,4	391.7
bh			4,6	392.5
y			5,3	391.8
b			4,7	392.4
y			5,1	392.0
bh			4,5	2.6
n			4,5	392.6
	225'	E f	Idaho	
n			4,2	392.9
bh			4,4	392.7
y			5,0	392.1
b			4,6	392.5
y			5,3	391.8
bh			5,3	391.8
S			5,4	391.7

397.13

	250'	E of	Idaho	
S			4.4	392.7
bb			4.9	392.2
y			5.3	391.8
b			4.6	392.5
y			5.1	392.0
bb			4.6	392.5
N			4.4	392.7
	275'	E of	Idaho	
N			4.5	392.6
bb			4.7	392.4
y			5.2	391.9
b			4.8	392.3
y			5.3	391.8
bb			5.2	391.9
S			5.2	391.9

397.13 Collier

	300'	E = W Line of Utah St (80)		
S		397.13	5.4	391.7
bb			5.4	391.7
y			5.5	391.6
b			4.8	392.3
y			5.1	392.0
bb			4.7	392.4
N			4.6	392.5
	W	bb of	Utah St	
N			4.7	392.4
bb			4.7	392.4
y			5.1	392.0
b			4.8	392.3
y			5.5	391.6
bb			5.3	391.8
S			5.3	391.8

397.13

W 1/4 of Utah

S	397.13	5,8	391.3
bb		5,7	391.4
y		5,5	391.6
b		4,8	392.3
y		5,2	391.9
bb		5,1	392.0
h		5,2	391.9

Center of Utah

h		4,7	392.4
bb		4,8	392.3
y		5,4	391.7
b		4,9	392.2
y		5,4	391.7
bb		5,1	392.0
S		4,9	392.2

397.13

Collier

E 1/4 of Utah

S	397.13	5,8	391.3
bb		5,7	391.4
y		5,7	391.7
b		4,8	392.3
y		5,2	391.9
bb		5,4	391.7
h		5,3	391.8

E bb of Utah

h		5,0	392.1
bb		5,1	392.0
y		5,3	391.8
b		4,7	392.4
y		5,4	391.7
bb		5,3	391.8
S		5,5	391.6

397.13

E line of Utah

S	397.13	5.5	391.6
bb		5.1	392.0
y		5.6	391.5
b		4.8	392.3
y		5.4	391.7
bb		5.1	392.0
n		5.1	392.0

25' E of Utah

n		5.2	391.9
bb		5.2	391.9
y		5.5	391.6
b		4.9	392.2
y		5.7	391.4
bb		5.4	391.7
S		5.6	391.5

397.13 Collier

50 E of Utah

S	397.13	5.8	391.3
bb		5.6	391.5
y		5.9	391.2
b		5.4	391.7
y		5.6	391.5
bb		5.3	391.8
n		5.3	391.8

75' E of Utah

n		5.3	391.8
bb		5.4	391.7
y		5.8	391.3
b		5.5	391.6
y		5.9	391.2
bb		5.8	391.3
S		5.8	391.3

		397.13		
	100'	E of	Utah	
S		397.13	6.0	391.1
bb			5.7	391.4
y			6.1	391.0
b			5.5	391.6
y			5.8	391.3
bb			5.6	1.5
N			5.5	391.6
TP	346	395.37	5.22	391.91
	125'	E of	Utah	st
N		395.4	4.0	391.4
bb			4.3	391.1
y			3.8	391.6
b			4.4	391.0
y			4.2	391.2
bb			4.4	391.0
S			4.4	391.0

		395.37		Collier
	150'	E of	Utah	
S		395.4	4.5	390.9
bb			4.3	391.1
y			4.6	390.8
b			3.9	391.5
y			4.3	391.1
bb			4.0	391.4
N			4.1	391.3
	175'	E of	Utah	
N			4.3	391.1
bb			4.4	391.0
y			4.6	390.8
b			4.1	391.3
y			4.8	390.6
bb			4.6	390.8
S			4.6	390.8

395.37

200' E of Utah

S	395.4	
bb	4.8	390.6
4	4.7	390.7
b	4.7	390.7
4	4.1	391.3
bb	4.5	390.9
h	4.4	391.0
	4.2	391.2

225' E of Utah

h	4.4	391.0
bb	4.6	390.8
4	4.8	390.6
b	4.3	391.1
4	5.0	390.4
bb	4.9	390.5
S	4.9	390.5

395.37 Collier

250' E of Utah

S	395.4	
bb	5.0	390.4
4	4.3	391.1
b	5.1	390.3
4	4.3	391.1
bb	5.0	390.4
h	4.6	390.8
	4.6	390.8

275' E of Utah

h	4.7	390.7
bb	4.8	390.6
4	5.2	390.2
b	4.3	391.1
4	5.3	390.1
bb	5.2	390.2
S	5.3	390.1

395.37

	300'	E =	W Lin of Kansas 80 (Graded)	
S		395.4	5,2	390.2
Ch			5,2	390.2
y			5,4	390.0
b			4,9	390.5
4			5,2	390.2
bh			4,8	390.6
h			4,8	390.6

5 | Clough
10 | Dunnan
11 | Fitzpatrick

Check Curbs in J st 6 to 8

SW° 6 + J

6.60	1854	11.94	
		6th st	
12.5		13.5	
13.0		14.0	
13.5	st	14.5	
14.0		15.0	
14.5		15.5	
		7th st	
15.5		16.0	
16.25		16.75	
17.0		17.5	
17.75		18.25	
18.5		19.00	
		8th st	

1854 H J

	12.50 ✓ 6.04	13.50 ✓ 5.04	14.00 ✓ 4.54	13.00 5.54
	13.50 ✓ 5.04	14.50 ✓ 4.04	15.00 ✓ 3.54	14.00 ✓ 4.54
	14.50 ✓ 4.04	15.50 ✓ 3.04		
TP	6.65	22.21	2.98	15.56
	16.00 ✓ 6.21	15.50 ✓ 6.71	16.25 5.96	17.75 4.46
	17.00 ✓ 5.21	17.50 ✓ 4.71	17.75 ✓ 4.46	18.25 ✓ 3.96
	18.50 3.71	19.00 ✓ 3.21		

Curbs are on line of Grade OK

and all Good but NW return of J + 7

5 Clough Levels for profile on Station St (50)
17 Dunn
4/3 Fitz E Line of Jackdaw to W L This

	7.96	277.04		269.08	mon Sw Hunter & Jackdaw
	E L of Jackdaw				
n			4.3	272.7	
b			4.6	272.4	
S			3.9	273.1	
	25' E of Jackdaw				
S			5.8	271.2	
b			5.7	271.3	
n			5.2	271.8	
	50' E of Jackdaw				
n			6.0	271.0	
b			6.4	270.6	
S			6.6	270.4	
	75' E of Jackdaw				
S			6.7	270.3	
b			7.2	269.8	
n			7.3	269.7	

		277.04			Station
	100'	E of Jackdaw			
n			8.0	269.0	
b			8.3	268.7	
S			8.3	268.7	
	125'	E of Jackdaw			
S			10.1	266.9	see book 409 page 57
b			8.7	268.3	
n			8.7	268.3	
	133' E of Jackdaw				
n			9.7	267.3	
TP	0.95	265.44	12.55	264.49	
	150'	E of Jackdaw			
n			7.0	258.4	
b			5.9	259.5	
S			10.3	255.1	
TP	0.86	253.65	12.65	252.79	

13365

	175'	E of Jack dam			
s			8.3	245.3	
l			4.8	241.8	
h			5.4	248.2	
TP	0.23	242.08	11.80	241.85	
	200	E of Jack dam			
h			3.3	238.8	
l			5.0	237.1	
s			7.0	235.1	
	215'	E of			
s			13.4	228.7	
l			11.4	230.7	
h			9.3	232.8	

5 / 25 / 11 | Clough Dome Fitzpatrick

Levels for Profile on 28th st (100')

S L of B to P L 146' n of H

SEO 28+B

	1.08	198.04		196.96	
	S L	of	B st		
E			0.3	197.7	
b			1.5	196.5	
w			0.9	197.1	
	12'	S of	B st		
w			10.5	187.5	
	25'	S of	B st		
w			12.7	185.3	
b			5.2	192.8	
E			0.0	198.0	
	50'	S of	B st		
E			1.1	196.9	
b			7.2	190.8	
w	75'	S of	B st		
E			2.0	196.0	
b			9.2	188.8	

		198.04			28th
	100'	S of	B st		
E			2.9	195.1	
b			10.2	187.8	
	125'	S of	B st		
E			4.0	194.0	
b			14.0	184.0	
	150'	S of	B		
E			4.7	193.3	
	175'	S of	B		
E			5.4	192.6	
	200'	S of	B		
E			6.6	191.4	
	225'	S of	B		
E			8.7	189.3	
TP	2.66	188.01	12.69	183.35	

		188.01			
	50'	S of	B st		
W			6.0	182.0	
	75'	S of	B st		
W			9.0	179.0	
	100'	S of	B st		
W			13.0	175.0	
	125'	S of	B st		
W			15.7	172.3	
	150'	S of	B		
C	on M H Cover		4.4	183.6	
	175'	S of	B		
C			7.3	180.7	
	200	S of	B		
C			9.2	178.8	
	225'	S of	B		
C			11.8	176.2	

		188.01			28th St
	250'	S of	B st		
E			0.9	187.1	
C			14.5	173.5	
	275'	S of	B st		
E			4.0	184.0	
	300'	S of	N S	C st (80)	
E			7.3	180.7	
	Center of		C st		
E			10.6	177.4	
	S	S of	C	st	
E			9.0	179.0	
	25'	S of	C		
E			9.4	178.6	
TP	074	175.88	12.87	175.14	
	150'	S of	B		
W			5.1	170.8	

	175'	S of	B	
W			8.2	167.7
	200'	S of	B St	
W			10.4	165.5
	225	S of	B	
W			11.9	164.0
	250'	S of	B	
W			14.0	161.9
	275'	S of	B	
b			5.4	170.5
	300'	S = n &	b St	(80)
b			7.8	168.1
	center of		b St	
center			11.9	164.0
	S & of		b St	
b			12.2	163.7

	25'	S of	b St	
b			12.6	163.3
TP	183	164.87	12.84	163.04
	300'	S = n &	b St	(80)
W			6.2	158.7
	center of		b St	
W			8.8	156.1
	bw + 9			
W			10.2	154.7
	14 + 7'			
W			13.8	151.1
	bb + 3'			
W			10.9	154.0
	S dir of		b St	
W			10.2	154.7
	25'	S of	b St	
W			9.9	155.0

		16487			
	50'	S of	C	st	
W			11.2	153.7	
C			2.2	142.7	
	75'	S of	C st		
W			13.6	151.3	
C			3.1	161.8	
	100'	S of	C st		
W			16.5	148.4	
C			5.3	159.6	
	125'	S of	C st		
C			8.2	156.7	
	150'	S of	C st		
C			11.3	153.6	
TP	0.27	15379	11.35	153.52	on Man Hole
	125'	S of	C st		
W			8.6	145.2	

		15379			28th 2nd
	140'	S of	C st		
W			10.4	143.4	
	144'	S of	C st		
W			11.7	142.1	
	148'	S of	C		
W			9.8	144.0	
	150'	S of	C st		
W			9.9	143.9	
	175'	S of	C		
W			9.3	144.5	
C			2.8	151.0	
	200'	S of	C st		
W			10.6	143.2	
C			5.2	145.6	
	225'	S of	C st		
W			12.0	141.8	
C			8.5	145.3	

	250' S of b st		
W		14.1	139.7
b		4.6	149.2
	255' S of b		
W		15.0	138.8
	257 S of b st		
W		12.4	141.4
	275' S of b st		
W		13.0	140.8
b		3.9	149.9
	300' S = N L b D st (50)		
W		16.8	137.0
b		3.6	150.2
	+3 S		
W		16.6	137.2
	+4 S		
W		15.0	138.8

	Center of D st		
W		16.2	137.6
b		4.7	149.1
	S line of D st		
W		17.4	136.4
b		8.1	145.7
	25' S of D st		
W		15.7	138.1
b		5.9	147.9
	50' S of D st		
W		13.8	140.0
b		1.5	152.3
	75' S of D st		
W		12.6	141.2
	100' S of D st		
W		8.7	145.1

		15379		
	125'	S of	D st	
W			5.6	148.2
TP	12.98	16650	0.77	153.52
TP	11.87	17807	0.30	166.20
	50'	S of	b st	
E			0.8	177.3
	75'	S of	b st	
E			3.0	175.1
	100'	S of	b st	
E			6.3	171.8
	125'	S of	b st	
E			9.4	168.7
	150'	S of	b st	
E			13.6	164.5
TP	0.81	16701	11.87	166.20
	175'	S of	b st	
E			6.8	160.2

		16701		2824
	200'	S of	b	st
E			10.6	156.4
	220'	S of	b	st
E			15.3	151.7
	225'	S of	b	st
E			14.3	152.7
	250'	S of	b	st
E			9.7	157.3
	275'	S of	b	st
E			6.9	160.1
	300'	S =	2d	D st (50)
E			6.0	161.0
	Center of		D	st
E			6.6	160.4
	S ¼ of		D	st
E			7.6	159.4

		167.01			
	Sbb	of	D	st	
E			10.0	157.0	
	bt + 9				
E			12.6	155.4	
	S	L of	D	st	
E			12.5	155.5	
	25'	S of	D	st	
E			7.9	159.1	
	50'	S of	D	st	
E			3.8	163.2	
TP	12.75	177.51	2.25	164.76	
	75'	S of	D	st	
E			9.5	168.0	
	100'	S of	D	st	
E			6.3	171.2	
	125'	S of	D	st	
E			4.7	172.5	

		177.51			
	150'	S of	D	st	
E			4.1	173.4	
	175'	S of	D	st	
E			4.0	173.5	
	200'	S of	D	st	
E			4.0	173.5	
	225'	S of	D	st	
E			4.7	172.8	
	250'	S of	D	st	
E			6.7	170.8	
	275'	S of	D	st	
E			10.7	166.8	
TP	0.51	165.29	1.73	164.78	Pod LP
	75'	S of	D	st	
b			9.4	155.9	
	100'	S of	D	st	
b			6.3	159.0	

		155.29		
	125'	S of	D	st
b			5.4	159.9
	150'	S of	D	st
b			4.5	160.8
	175'	S of	D	st
b			4.0	161.3
	200'	S of	D	st
b			4.0	161.3
	225'	S of	D	st
b			4.8	160.5
	250'	S of	D	st
b			6.5	158.8
	275'	S of	D	st
b			8.4	156.9
	300'	S = n d	Σ	st
b			13.1	152.2
TP	357	155.79	13.26	152.53

		155.79		
	150'	S of	D	st
W			8.0	147.8
	175'	S of	D	st
W			9.6	146.2
	200'	S of	D	st
W			11.6	144.2
	225'	S of	D	st
W			12.8	143.0
	250'	S of	D	st
W			14.0	141.8
	275'	S of	D	st
W			14.8	141.0
	300'	S = n d	Σ	st (80)
W			15.8	140.0

	290	167.68		164.78	TP on Pg 44
	300' S = N line of E St (80)				
E			4.8	162.9	
	Center of E St				
E			10.7	157.0	
	S bb of E St				
E			12.8	154.9	
	S bb of E St				
E			11.4	156.3	
	25' S of E				
E			10.2	157.5	
	50' S of E St				
E			7.2	160.5	
	75' S of E St				
E			4.4	163.3	
	100 S of E St				
E			3.1	164.6	

		167.68			290 St
	125 S of E St				
E			1.8	165.9	
	150' S of E St				
E			3.2	164.5	
	175' S of E				
E			4.4	163.3	
	200 S of E St				
E			6.2	161.5	
	225' S of E St				
E			8.4	159.3	
	250' S of E St				
E			12.1	155.6	
TP	0.05	154.76	12.97	154.71	
	Center of E St				
b			7.3	147.5	
	S bb of E St				
b			11.5	143.3	

154.76

	S line of	E st		
b			11,7	143.1
	25'	S of	E st	
b			10,5	144.3
	50'	S of	E st	
b			8,9	145.9
	75'	S of	E st	
b			6,6	148.2
	100'	S of	E st	
b			4,8	150.0
	125'	S of	E st	
b			4,5	150.3
	150'	S of	E st	
b			4,9	149.9
	175'	S of	E st	
b			3,8	151.0

154.76

28th st

4.

	200'	S of	E st	
b			5,8	149.0
	225'	S of	E st	
b			8,7	146.1
	250'	S of	E st	
b			12,2	142.6
	275'	S of	E st	
~~E~~			~~[illegible]~~	~~[illegible]~~
b			14,8	140.0
TP	1,28	143.41	12,63	142.15
	Center of	E St		
W			6,2	137.2
	S S of	E st		
W			10,3	133.1
	25'	S of	E st	
W			10,5	132.9

		143.41			
	50'	S of	E	st	
W			10.8	132.6	
	75'	S of	E	st	
W			10.0	133.4	
	100'	S of	E	st	
W			10.3	133.1	
	125'	S of	E	st	
W			10.5	132.9	
	150'	S of	E	st	
W			10.3	133.1	
	175'	S of	E	st	
W			10.5	132.9	
	200'	S of	E	st	
W			9.7	133.7	
	225'	S of	E	st	
W			11.9	131.5	

		143.41			
	250'	S of	E	st	
W			14.4	129.0	
	275'	S of	E	st	
W			15.7	127.7	
TP	9.64	151.77	1.28	142.13	
	275'	S of	E	st	
E			0.8	151.0	
	300'	S =	n L of	F st	(80')
E			5.2	146.6	
TP	1.62	143.75	9.64	142.13	
	Center of		F st		
E			9.3	134.5	
	300'	S =	n L	F st	
C			13.2	130.6	
	S bb of		F st		
E			13.00	130.8	
	S bb +10				
E			14.0	129.8	

		14375			
	8 Line of		7 st		
E			12,8	131.0	
	25'	S of	7 st		
E			8,1	135.7	
	50'	S of	7 st		
E			4,6	139.2	
	75'	S of	7 st		
E			2,3	141.5	
	100'	S of	7 st		
E			2,7	141.1	
	125'	S of	7 st		
E			4,0	139.8	
	150'	S of	7 st		
E			5,4	138.4	
	175'	S of	7 st		
E			7,3	136.5	

		14375			28th st
	200'	S of	7 st		
E			8,4	135.4	
	225'	S of	7 st		
E			10,6	133.2	
TP			12,63	131.12	
TP	0.77	142.90		142.13	TP Page 48
	1.39	132.03	12.26	130.64	
	300' S = N Line of 7 st				
W			6,7	125.3	
	Center of		7 st		
W			10,6	121.4	
C			1,6	130.4	
	S Line of		7 st		
W			12,2	119.8	
C	on Manhole		6,9	125.1	

13203

	25' S of	7 st	
W		13.0	119.0
b		5.0	127.0
	50' S of	7 st	
W		13.0	119.0
b		1.9	130.1
	75' S of	7 st	
W		13.3	118.7
b		2.4	129.6
	100' S of	7 st	
W		13.6	118.4
b		2.7	129.3
	125' S of	7 st	
W		14.7	117.3
b		3.7	128.3

	150' S of	7 st	
W		16.0	116.0
b		6.0	126.0
	175' S of	7 st	
W		17.0	115.0
b		7.5	124.5
	200' S of	7 st	
b		10.0	122.0
	225' S of	7 st	
b		13.0	119.0
	250' S of	7 st	
E L		1.0	131.0
	275' S of	7 st	
E		3.8	128.2
	300' S = n S of	6 st (80)	
E		6.4	125.6

13203

	Center of		G st	
E			7.7	124.3
	S Line of		G st	
E			9.2	122.8
TP	239	121.80	12.62	119.41
	200'	S of	F st	
W			7.4	114.4
	225'	S of	F st	
W			7.7	114.1
	250'	S of	F st	
W			8.2	113.6
C			5.1	116.7
	275'	S of	F st	
W			8.7	113.1
C			7.0	114.8

12180

282

	300' S = N L		G st 80	
W			8.8	113.0
C			8.1	113.7
	Center of		G st	
W			9.3	112.5
C			9.8	112.0
	S Line of		G st	
W			10.8	111.0
C			9.1	112.7
	25'	S of	G st	
E			0.3	121.5
C			9.2	112.6
W			14.0	107.8
	50'	S of	G st	
W			14.0	107.8
C			9.3	112.5
E			0.2	121.6

12180

75' S of Gst

E	2.0	119.8
b	10.4	111.4
W	12.6	109.2

100' S of Gst

W	12.3	109.5
b	10.9	110.9
E	3.0	118.8

125' S of Gst

E	4.0	117.8
b	12.3	109.5
W	13.0	108.8

154' S = Pueblo Lin 146 N of Gst

W	13.5	108.3
b	13.6	108.2
E	4.3	117.5

6 / Clough
2 / Dinner
11 / Fitzgerald

X sec of Van Buren St (80')

WL of Cleveland to E L Maryland

	0,0	336,95		336,95	SE Van Buren + Cleveland
	W Line of Cleveland				
S			2,0	334,95	
bb			2,1	334,85	
+1			3,0		
y			1,8		
b			1,0		
y			0,8		
bb	Gutter		0,7		
	Sidewalk is in		0,0	336.95	
	25'	W of	Cleveland		
nbb	walk in		2,6	334.35	
	Gutter		3,2		
y			3,1		
b			3,5		
y			4,2		
bb	Gutter		5,0		
			4,5	332,45	
S			4,0	332,95	

336,95

Van Buren

	50'	W of	Cleveland		
S			7,1	329,85	
bb			7,4	329,55	
	Gutter		8,0		
y			7,0		
b			6,2		
y			5,9		
bb	Gutter		6,0		
	Sidewalk in		5,4	331,55	
	75'	W of	Cleveland		
bb			8,0	328,95	
	Gutter		8,6		
y			8,6		
b			8,7		
y			9,5		
bb	Gutter		10,8		
			10,0	326,95	
S			9,9	327,05	

336.95

	100'	W of	Cleveland	
S			12,6	324.35
bb			12,7	324.25
			14,0	
y	Gutter		12,3	
b			11,4	
y			11,2	
bb	Gutter walk in		11,2 10,5	324.45
TP	018	324.08	13,05	323.90
	125'	W of	Cleveland	
nbb	walk Gutter		0,2 1,1	323.88
y			0,8	
b			1,3	
y			2,1	
bb	Gutter		33 3,5	321.58
S			2,3	321.78

324.08

	150'	W of	Cleveland	
S			4,7	
bb			5,4	318.68
	Gutter		5,8	
y			4,7	
b			3,7	
y			3,5	
M			38 3,4	320.68
n			24	
	175'	W of	Cleveland	
n			5,0	
bb			5,7	318.38
	Gutter		6,3	
y			6,5	
b			6,7	
y			7,2	
bb	Gutter		8,6 7,8	316.98
S			7,5	

324.08

	200'	W of	Cleveland	
S			10.3	
bb			10.6	313.48
	Gutter		11.3	
y			10.0	
b			9.3	
y			8.8	
			9.0	
bb			8.3	315.78
n			7.8	
TP	0.28	31.357	10.80	313.28
	225'	W of	Cleveland	
n			0.2	
bb			0.71	312.86
	Gutter		1.4	
y			1.2	
b			1.6	
y			2.4	
bb	Gutter		3.5	
			2.7	310.86
S			2.6	

31.351

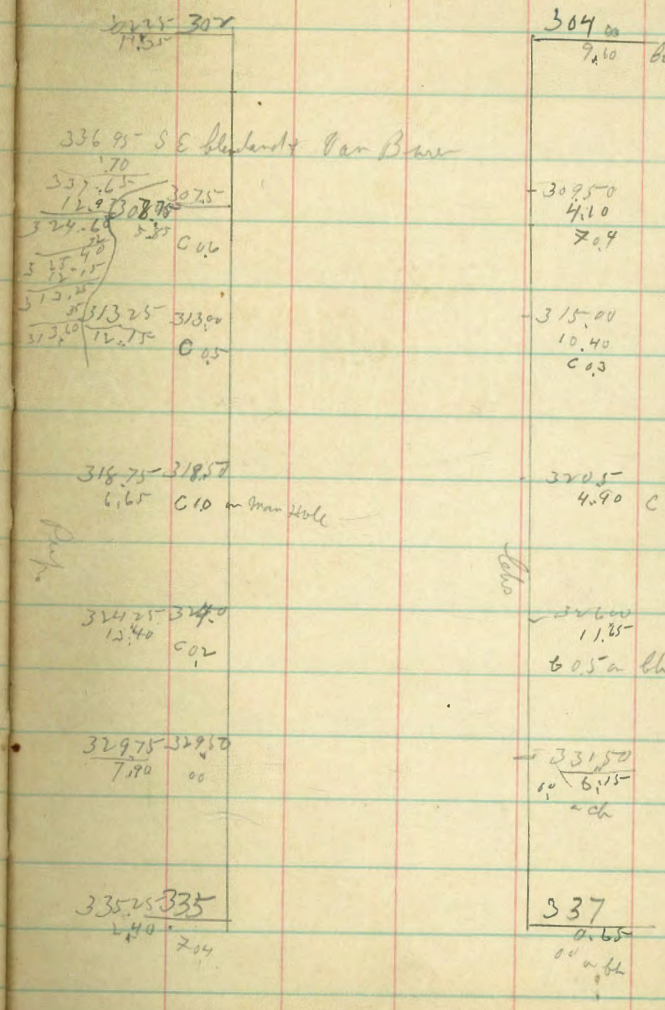
	250'	W of	Cleveland	
S			5.2	
bb			5.5	308.06
	Gutter		6.7	
y			5.5	
b			4.7	
y			4.3	
			4.6	
bb			3.7	309.86
n			3.5	
	275'	W of	Cleveland	
n			6.6	.6
bb			7.2	306.36
	Gutter		8.0	
y			7.6	
b			7.9	
y			8.6	
	Gutter		9.6	
bb			8.2	305.36
S			7.7	.5

31356

300' W = E L of Maryland

S		11,2	302 4
bl		11,0	302.56
	Gutter	11,7	
y		10,7	
b		10,3	
y		9,7	
	Gutter	10,0	303.56
bl		9,5	304.06
n		9,0	304.56

6 / Clough Cut + Fill Stakes on Van Buren
5 / Pinna
11 / Fitzpatrick Cleveland to Maryland



302.25 302
11.35

336.95 S E Cleveland + Van Buren
.70
337.65
12.97
324.68
325.40
12.15
313.25
313.60

308.75 307.5
5.85 C 0.6

313.25 313.00
12.75 C 0.5

318.75 318.50
6.65 C 1.0 on Man Hole

324.25 324.0
13.40 C 0.2

329.75 329.50
7.90 00

335.25 335
2.40 7.04

304.00
9.60 C 0.2 on Pole

309.50
4.10
7.04

315.00
10.40
C 0.3

320.5
4.90 C 0.1

326.00
11.65
C 0.5 on bl

331.50
6.15
00 on ch

337
0.65
00 on bl

6/5/11	Clough Oman Fitzpatrick	X Sec of Dale St (60') Palm to Redwood			
	1,30	321.83		320,53	n w bt of 30 & S pond
TP	3,35	318.33	6,85	314.98	
	S line of Redwood St				
E			4,0	314.3	
bh			4,1	314.2	
y			4,3	314.0	
b			4,4	313.9	
y			4,7	313.6	
bh			4,8	313.5	
w			4,9	313.4	
	25'	S of	Redwood St		
w			5,1	313.2	
bh			4,9	313.4	
y			4,8	313.5	
b			4,7	313.6	
y			4,5	313.8	
bh			4,6	313.7	
E			4,6	313.7	

		318.33			Dale St
	50'	S of	Redwood		
E			4,7	313.6	
bh			4,8	313.5	
y			5,1	313.2	
b			5,2	313.1	
y			5,5	312.8	
bh			5,7	312.6	
w			6,0	312.3	
	75'	S of	R-W		
w			6,0	312.2	
bh			6,1	312.1	
y			5,7	312.6	
b			5,5	312.8	
y			5,6	312.7	
bh			5,2	313.1	
E			5,0	313.3	

318.33

	100' S of Red Wood st		
E		5.3	313.0
bb		5.5	312.8
y		5.8	312.5
b		5.9	312.4
y		6.0	312.3
bl		6.1	312.2
w		6.4	311.9
	125' S of R-W		
w		6.8	311.5
bb		6.7	311.6
y		6.5	311.8
b		6.1	312.2
y		6.0	312.3
bb		5.9	312.4
E		5.3	313.0

318.33

	150' S of Red wood		
E		6.1	312.2
bl		6.4	311.9
y		6.6	311.7
b		6.5	311.8
y		6.8	311.5
bb		7.1	311.2
w		7.0	311.3
	175' S of R-W		
w		6.8	311.5
bb		7.2	311.1
y		6.9	311.4
b		6.7	311.6
y		6.7	311.6
bl		6.9	311.4
E		6.5	311.8

31833

	200'	S of	Red Wood	
E			6.5	311.8
bh			6.7	311.6
y			7.1	311.2
b			7.2	311.1
y			7.7	310.6
bh			7.4	310.9
W			6.7	311.6
	225'	S of	R-W	
W			6.3	312.0
bh			6.9	311.4
y			7.8	310.5
b			7.8	310.4
y			8.0	310.3
bh			7.5	310.8
E			7.4	310.9

31833

Dale st

	250'	S of	Red Wood st	
E			8.3	310.0
bh			8.2	310.1
y			8.1	310.2
b			7.4	310.9
y			7.5	310.8
bh			7.0	311.3
W			6.6	311.7
	275'	S of	Red Wood	
W			6.5	311.8
bh			6.5	311.8
y			6.5	311.8
b			6.5	311.8
y			7.1	311.2
bh			7.6	310.7
E			8.2	310.1

		31833		
	300	S of	Red wood	
E			8.0	310.3
bh			7.1	311.2
y			6.6	311.7
b			6.4	311.9
y			6.4	311.9
bh			6.2	312.1
W			6.2	312.1
	325	S of	R-W	
W			6.3	312.0
bh			6.3	312.0
y			6.6	311.7
b			7.0	311.3
y			7.2	311.1
bh			7.3	311.0
E			7.5	310.8
TP	220	31388	665	311.48

		31388		
	350	S of	Red	wood
E			3.5	310.4
bh			3.4	310.5
y			3.5	310.4
b			3.3	310.6
y			2.6	311.3
bh			2.0	311.9
W			2.2	311.7
	375	S of	Red	wood
W			3.5	310.4
bh			3.4	310.5
y			3.3	310.6
b			3.6	310.3
y			3.7	310.2
bh			4.0	309.9
E			4.0	309.9

		313.88		
	400'	S of	Red	wind
E			4,4	309.5
bh			4,7	309.2
y			4,5	309.4
b			4,2	309.7
y			4,2	309.7
bh			4,2	309.7
W			3,9	310.0
	425'	S of	R-	W-
W			3,9	310.0
bh			4,5	309.4
y			4,4	309.5
b			4,3	309.6
y			4,4	309.5
bh			4,6	309.3
E			4,5	309.4

		313.88			Dale
	450'	S of	Red	wind	
E			5,2	308.7	
bh			5,4	308.5	
y			5,5	308.4	
b			5,6	308.3	
y			5,3	308.6	
bh			5,1	308.8	
W			5,1	308.8	
	475	S of	Red	wind	
W			5,0	308.9	
bh			4,9	309.0	
y			5,2	308.7	
b			5,9	308.0	
y			6,1	307.8	
bh			5,6	308.3	
E			5,7	308.2	

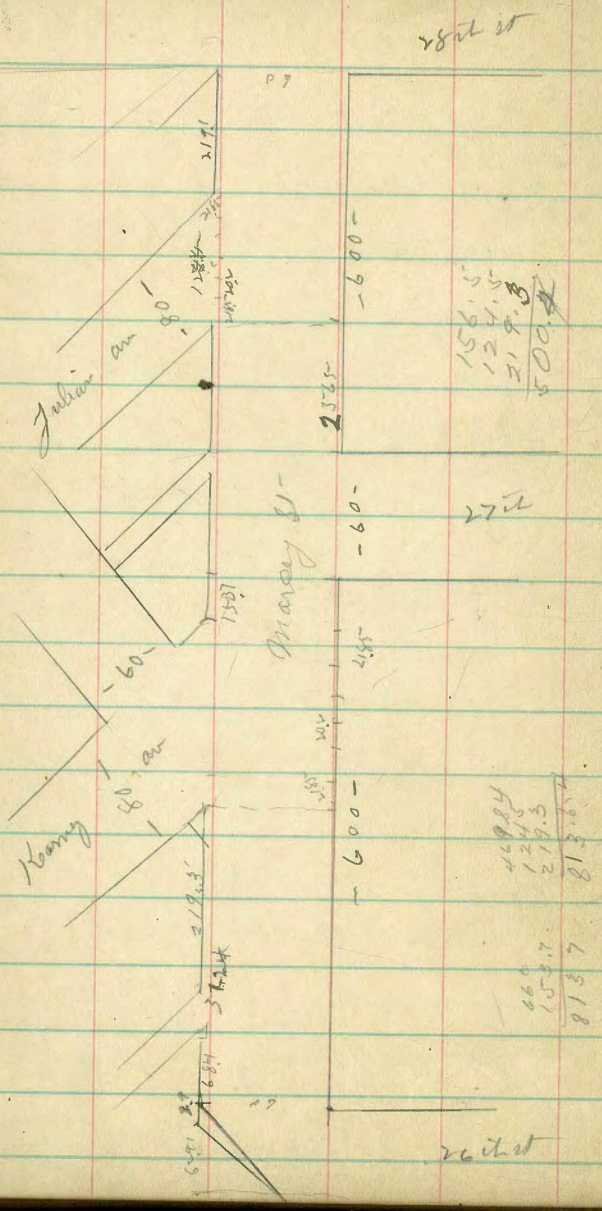
		31388		
	500'	S of	Red	Wood
E			6,8	307.1
bh			6,9	307.0
y			6,8	307.1
b			6,2	307.7
y			6,2	307.7
bh			5,0	308.9
W			5,1	308.8
	525'	S of	R—	W—
W			6,3	307.6
bh			6,5	307.4
y			6,8	307.1
b			7,5	306.4
y			7,5	306.4
bh			7,3	306.6
E			7,3	306.6

		31388		
	550'	S of	Red	Wood
E			7,3	306.6
bh			7,3	306.6
y			7,6	306.3
b			7,8	306.1
y			7,4	306.5
bh			7,0	306.9
W			6,7	307.2
	575'	S of	Red	Wood
W			6,6	307.3
bh			6,9	307.0
y			7,4	306.5
b			8,1	305.8
y			8,4	305.5
bh			8,3	305.6
E			8,7	305.2

31388

600 s = n d of Palm st

E	12.3	301.6
bh	9.5	304.4
y	9.0	304.9
b	8.5	305.4
y	8.0	305.9
bh	7.7	306.2
W	7.6	306.3



7	Clough	X Sec of	Marcey st (60)	Logan to	28th st
15	Donnan				
11	Fitzpatrick				
					BM NW
	8.18	74.20		66.02	28th Logan
	W Line of		28th st		
S		74.20	5.0	69.2	
bb			5.4	68.8	
y			5.2	69.0	
b			4.7	69.5	
y			4.6	69.6	
bb			4.3	69.9	
n			4.4	69.8	
	25	W of	28th	st	
n			4.3	69.9	
+5			5.0	69.2	
bb			5.0	69.2	
y			4.8	69.4	
b			5.1	69.1	
y			5.3	68.9	
bb			4.7	69.5	
S			4.5	69.7	

7420

		50'	W of	28th st	
S				4,8	69.4
bb				4,8	69.4
y				5,6	68.6
b				5,7	68.5
y				5,4	68.8
bb				5,5	68.7
	+7'			5,7	68.8
n				4,4	69.8
		75'	W of	28th st	
n				5,1	69.1
bb				5,8	68.4
y				6,0	68.2
b				6,1	68.1
y				6,3	67.9
bb				6,0	68.2
S				6,0	68.2

7420

		100'	W of	28th	
S				7,6	66.6
	+6'			6,9	67.3
bb				6,8	67.4
y				6,9	67.3
b				6,5	67.7
y				6,3	67.9
bb				5,8	68.4
n				5,7	68.5
		125'	W of	28th	
n				6,1	68.1
bb				6,2	68.0
y				6,7	67.5
b				7,0	67.2
y				7,3	66.9
bb				7,0	67.2
	+4'			7,2	67.0
S				8,2	66.0

		74.20		
	150'	w f	28 ct	st
S			8,0	66.2
bb			7,2	67.0
y			7,4	66.8
b			7,2	67.0
y			6,8	67.4
bh			6,5	67.7
n			6,1	68.1
	175'	w f	28 ct	
n			6,3	67.9
bb			6,5	67.7
y			6,8	67.4
b			7,2	67.0
y			7,4	66.8
bh			7,0	67.2
S			8,1	66.1

		74.20		
	200'	w f	28 ct	st
S			7,9	66.3
bh			7,1	67.1
y			7,4	66.8
b			7,1	67.1
y			7,0	67.2
bh			6,6	67.6
n			6,4	
	219.1 w = n Sin of Julian			(80) (124.4)
n			6,4	67.8
bb			6,7	67.5
y			6,9	67.3
b			7,2	67.0
y			7,4	66.8
bh			7,2	67.0
S			7,5	66.7
TP	5,19	72,07	7,32	66,88

E bl of Julian

S	5.2	66.9
bl	5.2	66.9
y	5.0	67.1
b	4.8	67.3
y	4.7	67.4
bl	4.6	67.5
n	4.3	67.8

E 1/4 of Julian

n	4.3	67.8
bl	4.4	67.7
y	4.6	67.5
b	4.7	67.4
y	5.0	67.1
bl	5.1	67.0
S	5.0	67.1

Center of Julian

S	5.1	67.0
bl	5.2	66.9
y	5.0	67.1
b	4.6	67.5
y	4.6	67.5
bl	4.4	67.7
n	4.2	67.9

W 1/4 of Julian

n	4.2	67.9
bl	4.3	67.8
y	4.5	67.6
b	4.3	67.8
y	5.0	67.1
bl	5.5	66.6
S	5.1	67.0

W bb of Julian

S	5.0	67.1
bb	5.7	66.4
y	4.4	67.7
b	4.6	67.5
y	4.4	67.7
bb	4.0	68.1
n	4.5	67.6

S end of Julian

n	3.9	68.2
bb	4.2	67.9
y	5.0	67.1
b	4.9	67.2
y	5.3	66.8
bb	5.7	66.4
	5.3	66.8

25' W of Julian

S	5.6	66.5
bb	5.8	66.3
y	5.6	66.5
b	5.2	66.9
y	5.0	67.1
bb	4.6	67.5
n	4.5	67.6

50' W of Julian

n	4.8	67.3
bb	4.6	67.5
y	5.0	67.1
b	5.3	66.8
y	5.9	66.2
bb	6.2	65.9
S	6.2	65.9

75' W of Julian

S	6.6	65.5
bb	6.3	65.8
y	6.4	65.7
b	6.0	66.1
y	5.9	66.2
bb	5.6	66.5
r	5.4	66.7

100' W of Julian

r	5.9	66.2
bb	6.1	66.0
y	6.6	65.5
b	6.4	65.7
y	6.7	65.4
bb	6.5	65.6
S	6.9	65.2

125' W of Julian

S	7.1	66.0
bb	6.8	65.3
y	6.8	65.3
b	6.8	65.3
y	6.8	65.3
bb	6.7	65.4
r	6.5	65.6

150' W of Julian

r	6.5	65.6
bb	6.7	65.4
y	6.8	65.3
b	6.7	65.4
y	6.9	65.2
bb	7.0	65.1
S	6.7	65.4

7207

175' w of Julian

S			7,0	65.1
bh			7,1	65.0
y			7,0	65.1
b			6,8	65.3
y			6,8	65.3
bh			6,7	65.4
n			6,7	65.4

200' w of Julian

n			5,8	66.3
+3'			6,4	65.7
bh			6,8	65.3
y			6,9	65.2
b			6,8	65.3
y			6,9	65.2
bh			7,3	64.8
S			6,9	65.2

7207

225' w of Julian

S			6,9	65.2
+8'			7,0	65.1
bh			7,8	64.3
y			7,0	65.1
b			6,9	65.2
y			6,9	65.2
bh			6,3	65.8
n			5,5	66.6

250' w of Julian

n			5,7	66.4
bh			5,9	66.2
y			6,4	65.7
b			7,0	65.1
			7,3	64.8
			8,0	64.1
+2'			7,0	65.1
S			7,2	64.9
Tp	4,18	7,060	5,65	66,42

on M H

7060

1565 W = E L 27th St (60')

S	77'	6.0	64.6
		5.8	64.8
bh		6.5	64.1
y		5.2	65.4
b		5.3	65.3
y		4.9	65.7
bh		4.5	66.1
n		4.2	66.4

E bh of 27th St

n	4.1	66.5
bh	4.2	66.4
y	5.2	65.4
b	4.8	65.8
y	4.9	65.7
bh	6.0	64.6
S	6.5	64.1

7060

Marcey

71

E 1/4 of 27th St

S	5.7	64.9
bh	5.4	65.2
y	4.8	65.8
b	4.5	66.1
y	5.0	65.6
bh	4.2	66.4
n	4.0	66.6

Center of 27th St

n	4.0	66.6
bh	4.3	66.3
y	4.7	65.9
b	4.2	66.4
y	4.3	66.3
bh	5.0	65.6
S	5.4	65.2

W 1/4 of 27 st

S	5.3	65.3
bl	5.0	65.6
4	4.5	66.1
b	4.1	66.5
4	4.1	66.5
bl	3.9	66.7
n	4.0	66.6

W bl of 27 st

n	4.1	66.5
bl	4.4	66.2
4	4.2	66.4
b	4.3	66.3
4	4.6	66.0
bl	5.0	65.6
S	5.7	64.9

W line of 27 st st

S	5.0	65.6
bl	5.3	65.3
4	4.7	65.9
b	4.5	66.1
4	4.2	66.4
bl	4.4	66.2
n	4.2	66.4

25' W of 27 st st

n	4.0	66.6
bl	4.3	66.3
4	4.5	66.1
b	4.2	66.4
4	4.7	65.9
bl	4.9	65.7
S	5.1	65.5

7060

	50'	w f	27th	st
s			5,1	65.5
bh			5,2	65.4
y			4,9	65.7
b			4,5	66.1
y			4,6	66.0
bh			4,5	66.1
n			4,1	66.5
	75'	w f	27th	
n			4,3	66.3
bh			4,6	66.0
y			4,7	65.9
b			5,0	65.6
y			5,2	65.4
bh			5,4	65.2
s			5,3	65.3

7060

	100'	w f	27th	
s			5,7	64.9
bh			5,5	65.1
y			5,5	65.1
b			5,5	65.1
y			5,4	65.2
bh			4,9	65.7
n			4,5	66.1
	125'	w f	27th	
n			4,8	65.8
bh			5,2	65.4
y			5,4	65.2
b			5,3	65.3
y			5,6	65.0
bh			5,4	65.2
s			5,5	65.1

		70.60			
	154'	w =	n Line of Kearney (80) (124.81)		
s			5,7	64.9	
bb			5,7	64.9	
y			5,9	64.7	
b			5,3	65.3	
y			5,2	65.4	
bb			4,6	66.0	
n			4.45	66.2	
(21,85)	E bb of	Kearney			
n			4,8	65.8	
bb			4,9	65.7	
y			4,8	65.8	
b			5,2	65.4	
y			5,9	64.7	
bb			5,6	65.0	
s			5,6	65.0	

		70.60			Marcey
					71
(20.2)	E	1/4 of	Kearney		
s			5,6	65.0	
bb			5,6	65.0	
y			5,9	64.7	
b			5,5	65.1	
y			5,0	65.6	
bb			4,9	65.7	
n			5,0	65.6	
	Center	of	Kearney		
n			5,1	65.5	
bb			5,0	65.6	
y			5,5	65.1	
b			5,6	65.0	
y			6,0	64.6	
bb			5,7	64.9	
s			6,1	64.5	

70.60

W Ny of Kearny

S	6.3	64.3
bb	5.5	65.1
y	5.9	64.7
b	5.5	65.1
y	5.6	65.0
bb	5.4	65.2
n	5.2	65.4

W bb of Kearny

n	5.9	64.7
bb	5.3	65.3
y	5.6	65.0
b	5.7	64.9
y	5.8	64.8
bb	5.7	64.9
S	6.1	64.5

70.60 Maroney

W line of Kearny (S line)

S	5.9	64.7
bb	5.7	64.9
y	6.1	64.5
b	5.8	64.8
y	5.5	65.1
bb	5.3	65.3
n	5.0	65.6
TP	3.98	69.32	4.86	65.74

25' W of Kearney

n	3.1	66.6
75'	3.8	65.9
bb	4.2	65.5
y	4.6	65.1
b	4.7	65.0
y	5.2	64.5
bb	5.0	64.7
S	5.0	64.7

50' w of Kearney

S	5.0	64.7
bb	5.3	64.4
y	5.2	64.5
b	4.7	65.0
y	4.4	65.3
bb	4.1	65.6
n	3.6	66.1

75' w of Kearney

n	3.2	66.5
+5'	4.1	65.6
bb	4.4	65.3
y	4.6	65.1
b	4.9	64.8
y	5.3	64.4
bb	5.1	64.6
S	5.3	64.4

100' w of Kearney

S	5.3	64.4
bb	5.0	64.7
y	5.5	64.2
b	5.0	64.7
y	4.7	65.0
bb	4.1	65.6
n	4.0	65.7

125' w of Kearney

n	4.4	65.3
bb	4.8	64.9
y	5.0	64.7
b	5.2	64.5
y	5.6	64.1
bb	5.3	64.4
S	5.6	64.1

6972

150' W of Kearney

S	150	57	64.0
bh		57	64.0
y		61	63.6
b		58	63.9
y		55	64.2
bh		53	64.4
n		50	64.7

175' W of Kearney

n		51	64.6
bh		56	64.1
y		59	43.8
b		60	63.7
y		64	63.3
bh		60	63.7
S		60	63.7

6972

200' W of Kearney

S		63	63.4
bh		63	63.4
y		67	63.0
b		64	63.4
y		60	63.7
bh		60	63.7
n		60	63.7

225' W of Kearney

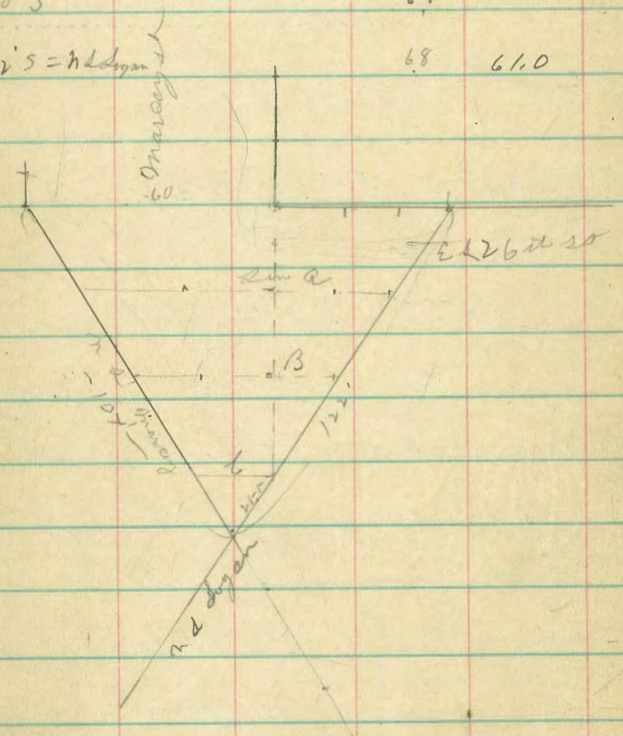
n		66	63.1
bh		63	63.4
y		65	63.2
b		70	62.7
y		70	62.7
bh		68	62.9
S		70	62.7

		69,72		
	250'	W of	Kearny	
S			7,1	62.6
bb			7,3	62.4
y			7,6	62.1
b			7,5	62.2
y			7,2	62.5
bb			6,7	63.0
n			6,5	63.2
	275'	W of	Kearny	
n			6,6	63.1
bb			6,3	63.1
y			7,2	62.5
b			7,5	62.2
y			7,4	62.3
bb			7,8	61.9
S			7,3	62.4

		69,72		
	300'	W of	Kearny	
S			7,8	61.9
bb			7,9	61.8
y			8,2	61.5
b			8,0	61.7
y			7,5	62.2
bb			6,9	62.8
n			7,0	62.7
	322,0	W =	E d	26th st
n			7,0	62.7
bb			7,2	62.5
y			7,4	62.3
b			7,4	62.3
y			7,9	61.8
bb			8,7	61.0
S			8,5	61.2
TP	6,37	67,87	8,22	61,50

E S of 26th st continued South

SE bn 26 + Marcy	66	61.2
20' S	67	
40' S	67	
62' S = N S Logan	68	61.0



Line A 25' W of E S of 26th st

44' S = N S Logan	70	60.9
20' S =	53	
Center	56	62.2
20 N	55	
45.5 = N S Marcy	50	62.9

Line B 50' W of E S 26th st

35.5' N = N S Marcy	52	62.5
20' N	55	
Center	57	62.2
22.5' S = N S Logan	69	61.0

Line C 75' W of 26th st

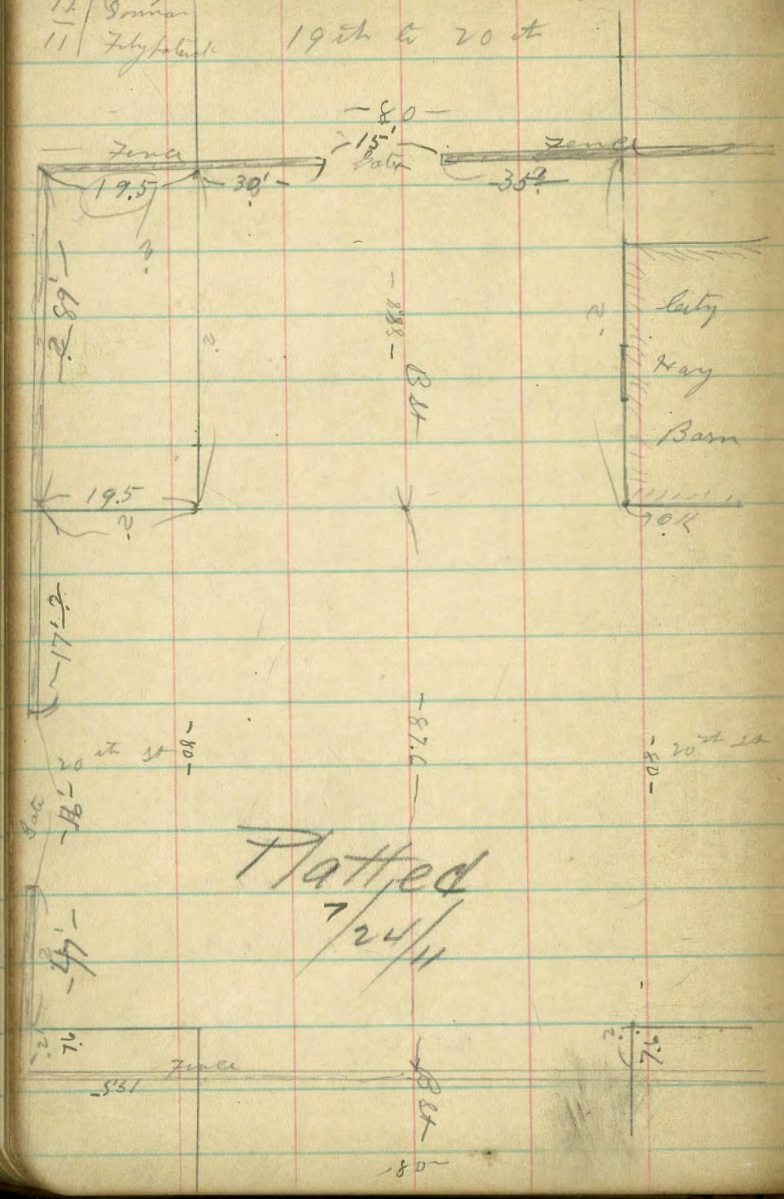
Center = N S Logan	67	61.2
25' N = N S Marcy	57	62.2

N Line of Marcy + N S Logan

	65	61.4

7 | Clough
17 | Donnan
11 | Fitzpatrick

Locate Fences on Bst
19th to 20th

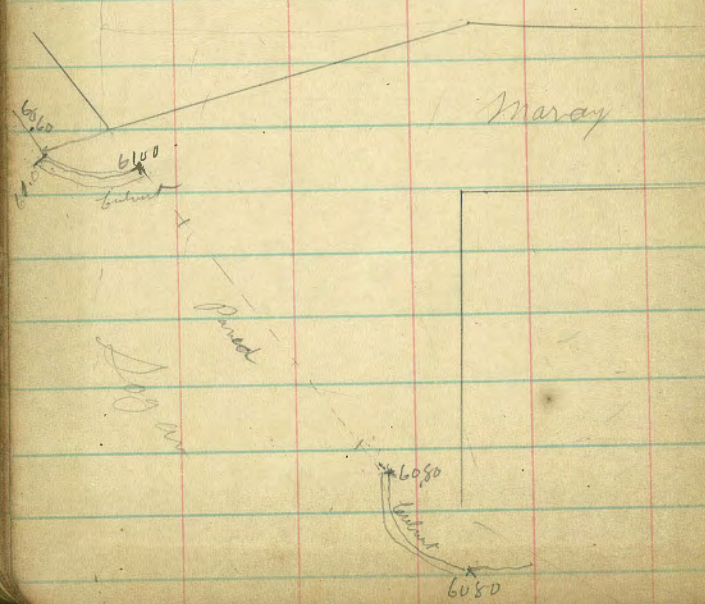


Platted
7/24/11

7/19/11 | Clough Donnar

Levels for Curb Grades on 26th Logan & Marcy #400

	5.60	66.41	60.81	M.E. 26th Logan
N.E. Curb of 26 & Marcy		5.61	60.80	
N.W. Curb Logan & "		5.41	61.00	
Old Curb on Logan		5.81	60.60	



66.41
5.61
60.8

27698
SE Landis
TP 109.06 .275 n.y.s
110.8 E2D2
TP 154.76 D4

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

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	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		