Return to City Engineers Office
City Hall, San Diego, Cal.

400 LEVEL

F.B. 464

Return to City Engineers Office
City Hall, San Diego, Cal.

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

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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 PRIMO MADE

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

OK ✓ 2 Pb	BM	45.00	{ N W bar of Vallair & Froude Strike in Pale
✓	BM	31.04	N W bar Vallair & Eber St Sp in Pale

Clough Dunn Rodgers

Froude St Continued from Book 463

5.1909 215 N = S line Lotus (50)

E. L.		50.01	5.3	44.7
C			5.7	44.3
1/4			6.0	44.0
C			6.1	43.9
1/4			6.7	43.3
C			6.9	43.1
W. L.			7.2	42.8
T. P.	5.18	47.97	7.20	42.79 42.81
	N. line Lotus			
W. L.			5.9	42.1
C			5.5	42.5
1/4			5.1	42.9
C			4.7	43.3
1/4			4.5	43.5
C			4.2	43.8
E. L.			4.1	43.9

47.97

50' n. Lotus Vlt.

E.L.	4.6	43.4
C	5.0	43.0
¼	5.2	42.8
C	5.2	42.8
¼	5.6	42.4
C	6.0	42.0
W.L.	6.3	41.7

100' n Lotus Vlt.

W.L.	7.1	40.9
C	7.0	41.0
¼	6.5	41.5
C	5.7	42.3
¼	5.9	42.1
C	5.6	42.4
E.L.	5.1	42.9

47.97

Rounds 2

150' n Lotus Vlt.

E.L.	6.1	41.9
C	6.1	41.9
¼	6.4	41.6
C	6.4	41.6
¼	7.1	40.9
C	7.7	40.3
W.L.	7.7	40.3

169' n Lotus Vlt. = S line Green E.

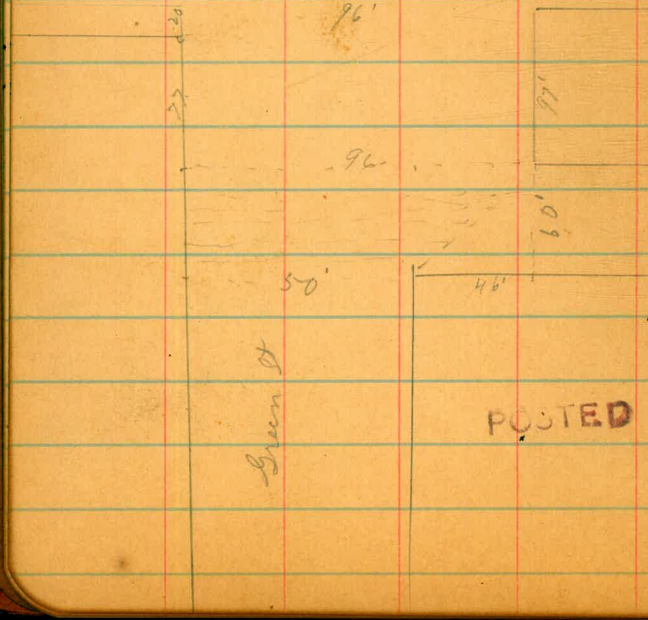
W.L.	7.4	40.6
C	7.2	40.8
¼	7.1	40.9
C	6.8	41.2
¼	6.7	41.3
C	6.4	41.6
E.L.	6.1	41.9

47.97

215' W
169' E } = S line Green.

E.L.			6.1	41.9
C			6.5	41.5
1/4			6.7	41.3
C			7.0	41.0
1/4			7.8	40.2
C			8.0	40.0
W.L.	5.61	45.86	7.72	B.M. 40.25

Sea Side St



POSTED

Cough
Dorian
Rodgers

Crossection of Green St (50')
E S of P.L. 205 to Blvd

45.86

5-19-09

1(96') E line of Froude P.L. 205 43.8

POSTED

S.L.			2.3	43.6
C			2.5	43.4
1/4			2.6	43.3
C			2.7	43.2
1/4			2.8	43.1
C			3.5	42.4
N.L.			3.4	42.5

47' W. P.L.

N.L.			3.7	42.2
C			3.9	42.0
1/4			3.5	42.4
C			3.3	42.6
1/4			3.1	42.8
C			3.2	42.7
S.L.			2.8	43.1

45.86

(66) 97' Or. = E line Fronde Ht. (60')

S. L.	4.0	41.9
C	4.0	41.9
¼	4.2	41.7
C	4.2	41.7
¼	4.7	41.2
C	4.7	41.2
N. L.	4.7	41.2

E. curb Fronde Ht.

N. L.	5.1	40.8
C	5.0	40.9
¼	4.8	41.1
C	4.6	41.3
¼	4.5	41.4
C	4.7	41.2
S. L.	4.5	41.4

45.86

Green

East quarter Fronde Ht.

S. L.	4.6	41.3
C	4.7	41.2
¼	5.0	40.9
C	4.9	41.0
¼	5.1	40.8
C	5.3	40.6
N. L.	5.2	40.7

Center Fronde.

N. L.	5.5	40.4
C	5.6	40.3
¼	5.2	40.7
C	5.2	40.7
¼	5.3	40.6
C	5.0	40.9
S. L.	4.9	41.0

45.86

West quarter Fronde Ht.

S.L.	5.5	40.4
C	5.5	40.4
¼	5.5	40.4
C	5.4	40.5
¼	5.4	40.5
C	5.9	40.0
N. L.	5.5	40.4

West end Fronde

N. L.	6.0	39.9
C	5.9	40.0
¼	5.8	40.1
C	5.7	40.2
¼	6.1	39.8
C	5.9	40.0
S. L.	5.9	40.0

45.86

Grum 5

(50) West line Fronde Ht.

S.L.	5.6	40.3
C	6.0	39.9
¼	6.1	39.8
C	6.1	39.8
¼	6.3	39.6
C	6.5	39.4
N. L.	6.2	39.7

50' W. Fronde:

N. L.	7.4	38.5
C	7.5	38.4
¼	7.6	38.3
C	7.1	38.8
¼	7.5	38.4
C	7.5	38.4
S. L.	7.2	38.7

45.86

100' W. Fronde Mt.

M.L.			8.3	37.6
C			8.4	37.5
¼			8.4	37.5
C			8.3	37.6
¼			8.7	37.2
C			8.7	37.2
M.L.			8.7	37.2

150' W. Fronde.

M.L.			9.2	36.7
C			8.8	37.1
¼			8.8	37.1
C			8.3	37.6
¼			9.1	36.8
C			9.1	36.8
M.L.			9.0	36.9
T.P.	2.53	39.80	8.59	37.27

39.80

(50') 200' W. Fronde Mt.

M.L.	3.2	36.6
C	3.1	36.7
¼	3.3	36.5
C	3.2	36.6
¼	3.7	36.1
C	3.7	36.1
M.L.	3.5	36.3

250' W. Fronde

M.L.	4.1	35.7
C	4.0	35.8
¼	4.0	35.8
C	3.4	36.4
¼	3.8	36.0
C	3.8	36.0
M.L.	3.7	36.1

39.80

300' W. Froude St.

S.L.			4.6	35.3
C			4.4	35.4
1/4			4.4	35.4
C			4.2	35.6
1/4			4.8	35.0
C			4.8	35.0
N.L.			4.8	35.0

350' W Froude.

N.L.			5.5	34.3
C			5.2	34.6
1/4			5.2	34.6
C			5.0	34.8
1/4			5.4	34.4
C			5.4	34.4
S.L.			5.3	34.5

39.80

Green 7

400' W. Froude St.

S.L.			6.0	33.8
C			6.3	33.5
1/4			6.4	33.4
C			6.1	33.7
1/4			6.7	33.1
C			6.7	33.1
N.L.			6.6	33.2

450' W. Froude.

N.L.			7.6	32.2
C			7.4	32.4
1/4			7.3	32.5
C			6.9	32.9
1/4			7.3	32.5
C			7.1	32.7
S.L.			7.1	32.7
T.P.	3.36	36.00	7.16	32.64

36.00

500' W. Froude St.

S.L.	3.7	32.3
C	3.8	32.2
1/4	3.9	32.1
C	3.8	32.2
1/4	4.2	31.8
C	4.4	31.6
N.L.	4.2	31.8

550' W. Froude.

N.L.	4.6	31.4
C	4.5	31.5
1/4	4.4	31.6
C	4.1	31.9
1/4	4.4	31.6
C	4.3	31.7
S.L.	3.9	32.1

36.00

Green (60') 8

600' W. Froude = E line Ebers St

S.L.	4.5	31.5
C	4.4	31.6
1/4	4.8	31.2
C	4.3	31.7
1/4	4.5	31.5
C	4.7	31.3
N.L.	4.9	31.1

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E curb Ebers.

N.L.	4.7	31.3
C	4.6	31.4
1/4	4.7	31.3
C	4.6	31.4
1/4	4.7	31.3
C	4.4	31.6
S.L.	4.6	31.4

E. quarter Ebes. Mt.

M. L.	4.6	31.4
C	4.6	31.4
¼	4.6	31.4
C	4.6	31.4
¼	4.7	31.3
C	4.8	31.2
M. L.	4.7	31.3

Centes Ebes.

M. L.	4.5	31.5
C	4.6	31.4
¼	4.5	31.5
C	4.3	31.7
¼	4.3	31.7
C	4.3	31.7
M. L.	4.3	31.7

W. quarter Ebes. Mt.

M. L.	4.6	31.4
C	4.6	31.4
¼	4.5	31.5
C	4.6	31.4
¼	4.7	31.3
C	4.9	31.1
M. L.	5.0	31.0

W. Curb. Ebes.

M. L.	4.9	31.1
C	4.8	31.2
¼	5.2	30.8
C	4.7	31.3
¼	4.6	31.4
C	4.5	31.5
M. L.	4.7	31.3

		36.00			
W. line Eber St.					
S.L.			4.8	31.2	
C			4.6	31.4	
1/4			4.6	31.4	
C			4.6	31.4	
1/4			5.0	31.0	
C			5.0	31.0	
N.L.			4.8	31.2	
B.M.	4.24	35.48	4.76	31.24	BM SWH D Fm
50' W. Eber St.					
N.L.			4.5	31.0	
C			4.7	30.8	
1/4			4.6	30.9	
C			4.2	31.3	
1/4			4.5	31.0	
C			4.3	31.2	
S.L.			4.4	31.1	

		35.48			Green
100' W. Eber St.					
S.L.			5.0	30.5	
C			5.0	30.5	
1/4			4.9	30.6	
C			4.6	30.9	
1/4			4.8	30.7	
C			5.0	30.5	
N.L.			4.9	30.6	
150' W. Eber St.					
N.L.			5.4	30.1	
C			5.3	30.2	
1/4			5.3	30.2	
C			5.2	30.3	
1/4			5.3	30.2	
C			5.2	30.3	
S.L.			5.1	30.4	

35.48

193.5' W = Boulevard on North.

N.L.	5.8	29.7
C	5.7	29.8
¼	5.9	29.6
C	5.6	29.9
¼	5.8	29.7
C	6.1	29.4
N.L.	6.2	29.3

269' W. on N line

N. L.	6.7	28.8
C	6.6	28.9
¼	6.7	28.8
C = N line Boulevard.	6.5	29.0

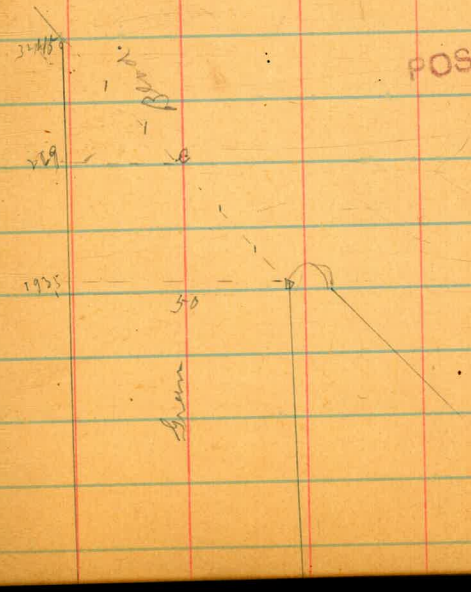
35.48

Green

11

193.5' W on N
344.5' W on A
} = A line boulevard.

A.L.	7.4	28.1
C	7.3	28.2
¼	6.8	28.7
C	6.7	28.8
¼	6.5	29.0
C	5.9	29.6
N.L.	6.1	29.4
B.M. Hub.	6.13	29.35



POSTED

Clough Dinan Rodgers	Crossection of Zion S L Blvd.		Eber St (60) to N Sin of Brighton		
	5.09	36.33		31.24	BM S W & Eber & Green
	N Sin of Green St (50)				
NL			5.1	31.2	
bl			5.3	31.0	
y			5.2	31.1	
b			4.8	31.5	
y			5.0	31.3	
bl			5.0	31.3	
EL			5.2	31.1	
	50'	N of			
EL			5.5	30.8	
bl			5.5	30.8	
y			5.6	30.7	
b			5.1	31.2	
y			5.5	30.8	
bl			5.3	31.0	
NL			5.2	31.1	

POSTED

		36.33			Eber St
—	100	N of	Green		
NL			5.5	30.8	
bl			5.5	30.8	
y			5.6	30.7	
b			5.3	31.0	
y			5.8	30.5	
bl			5.6	30.7	
EL			5.7	30.6	
	120	N of	Green St =		S Sin of Blvd on W
EL			5.6	30.7	
bl			5.6	30.7	
y			5.7	30.6	
b			5.4	30.9	
y			6.0	30.3	
bl			5.8	30.5	
NL			5.9	30.4	

POSTED

3633

1955 n on E } = S line of Blvd
122 n on W }

WL			5,9	30.4	
bl			5,8	30.5	
y			5,8	30.5	
b			6,0	30.3	
y			6,2	30.1	
bl			6,0	30.3	
EL			6,30	30.03	Bm at Blvd

3633 Eber St

S line of Green St

EL			4,8	31.5
bl			5,0	31.3
y			4,9	31.4
b			4,6	31.7
y			5,0	31.3
bl			5,2	31.1
WL			5,1	31.2

50' S of Green

WL			4,9	31.4
bl			4,7	31.6
y			5,0	31.3
b			4,5	31.8
y			4,9	31.4
bl			4,9	31.4
EL			4,6	31.7

		3633		
	100'	S of	Green st	
EL			4,3	32.0
bl			4,7	31.6
y			4,8	31.5
b			4,7	31.6
y			5,1	31.2
bl			4,9	31.4
WL			4,6	31.7
	150'	S of	Green st	
WL			5,1	31.2
bl			4,8	31.5
y			4,6	31.7
b			5,0	31.3
y			4,8	31.5
bl			4,6	31.7
EL			4,6	31.7

		3633			Eber st
	200'	S of	Green st		
EL			4,5	31.8	
bl			5,0	31.3	
y			5,0	31.3	
b			4,7	31.6	
y			5,1	31.2	
bl			5,2	31.1	
WL			5,2	31.1	
TP	3,98	35.28	5,03	31.30	
	215'	S = N Line of Lotus st (50')			
WL			4,0	31.3	
bl			4,1	31.2	
y			4,0	31.3	
b			3,8	31.5	
y			4,0	31.3	
bl			3,9	31.4	
EL			3,9	31.4	

35.28

Sting of Sotus st

EL			3,9	31.4
bl			3,9	31.4
y			4,0	31.3
b			3,9	31.4
y			4,1	31.2
bl			4,1	31.2
WL			4,2	31.1
	50	S of	Sotus	
WL			4,0	31.3
bl			3,9	31.4
y			4,2	31.1
b			3,9	31.4
y			4,1	31.2
bl			4,0	31.3
EL			3,9	31.4

35.28

Eber St

	100	S of	Green	
EL			4,1	31.2
bl			4,1	31.4
y			4,3	31.0
b			4,1	31.2
y			4,4	30.9
bl			4,4	30.9
WL			4,4	30.9
	150	S of	Green	
WL			4,4	30.9
bl			4,4	30.9
y			4,4	30.9
b			4,0	31.3
y			4,3	31.0
bl			4,4	30.9
EL			4,0	31.3

		35.28			
	200'	S of	Green		
Ex			4,2	31.1	
bl			4,4	30.9	
y			4,4	30.9	
b			4,1	31.1	
y			4,5	30.8	
bl			4,6	30.7	
Wh			4,6	30.7	
	215'	S =	N S of	Voltair	(80')
Wh			4,5	30.8	
bl			4,7	30.6	
y			4,6	30.7	
b			4,3	31.0	
y			4,3	31.0	
bl			4,2	31.1	
Ex			4,4	30.9	
TP	4,94	35.76	4,47	30.82 ✓ 30.81	

		35.76			Ther 22
	S Line	of	Voltair		
Wh			4,9	30.9	
bl			5,2	30.6	
H			5,2	30.6	
b			4,7	31,1	
H			5,0	30.8	
br			5,1	30.7	
Ex			4,9	30.9	
	50'	S of	Voltair		
Ex			4,7	31,1	
bl			4,7	31.1	
y			4,8	31.0	
b			4,5	31.3	
y			5,1	30.7	
bl			4,9	30.9	
Wh			5,1	30.7	

35-76

100' S of Voltaire

WL	5.1	30.7
bb	4.9	30.9
y	5.0	30.8
b	4.6	31.2
y	4.9	30.9
bb	4.7	31.1
EL	4.7	31.1

150' S of Voltaire st

EL	4.6	31.2
bb	4.5	31.3
y	4.8	31.0
b	4.5	31.3
y	5.0	30.8
bb	5.0	30.8
WL	5.0	30.8

35-76

Ebert St

200' S of Voltaire st

WL	4.9	30.9
bb	4.7	31.1
y	4.7	31.1
b	4.7	31.1
y	4.7	31.1
bb	4.6	31.2
EL	4.4	31.4

(50)

215' S = N Line of Muir st

EL	4.2	31.6
bb	4.3	31.5
y	4.6	31.2
b	4.3	31.5
y	4.6	31.2
bb	4.7	31.1
WL	4.9	30.9

POSTED

35.76

2+65	S Sin of		Muir	st	
WL			4,62	31.14	Bm
bl			4,4	31.4	
"			4,5	31.3	
b			4,1	31.7	
"			4,3	31.5	
bl			4,8	31.0	
EL			4,9	30.9	
3+15	50'	Sq	Muir		
EL			2,9	32.9	
bl			3,4	32.4	
"			3,5	32.3	
b			3,6	32.2	
"			4,3	31.5	
bl			4,3	31.5	
WL			4,3	31.5	

35.76

Eber St

18

3+65	100'	Sq	Muir	st
WL			4,2	31.6
bl			4,0	31.8
"			4,0	31.8
b			3,4	32.4
"			3,3	32.5
bl			3,0	32.8
EL			2,7	33.1
4+15	150'	Sq	Muir	
EL			3,0	32.8
bl			3,1	32.7
"			3,3	32.5
b			3,4	32.4
"			3,8	32.0
bl			4,1	31.7
WL			4,3	31.5

3576

4+65	200'	S of	Main St	
WL			4.0	31.8
bl			4.0	31.8
y			3.8	32.0
b			3.4	32.4
y			3.2	32.6
bl			3.0	32.8
EL			2.8	33.0
4+80	215'	S of	n Line of Long Branch (50)	
EL			2.7	33.1
bl			2.9	32.9
y			3.1	32.7
b			3.1	32.7
y			3.6	32.2
bl			3.6	32.2
WL			3.7	32.1
TP	5.89	3848	3.19	32.57

3848

5+30	S Line of		Long Branch	
WL			5.9	32.6
bl			5.6	32.9
y			5.7	32.8
b			5.2	33.3
y			5.5	33.0
bl			5.0	33.5
EL			4.8	33.7
5+80	50'	S of	Long	Branch
EL			4.1	34.4
bl			4.2	34.3
y			4.5	34.0
b			4.2	34.3
y			4.9	33.6
bl			4.7	33.8
WL			5.2	33.3

		38.48		
6+30	100'	S of	Long	Branch
WL			4.6	33.9
bh			4.4	34.1
"			4.4	34.1
b			3.8	34.7
"			3.8	34.7
bh			3.5	35.0
EL			3.4	35.1
6+80	150'	S of	Long	Branch
EL			2.9	35.6
bh			2.9	35.6
"			3.3	35.2
b			3.3	35.2
"			3.9	34.6
bh			4.0	34.5
WL			4.3	34.2

		38.48		
7+30	200'	S of	Long	Branch
WL			3.7	34.8
bh			3.6	34.9
"			3.6	34.9
b			3.2	35.3
"			3.0	35.5
bh			2.5	36.0
EL			2.0	36.5
7+45	215'	S = N	S of	Brighton
EL			2.1	36.4
bh			2.3	36.2
"			2.7	35.8
b			2.9	35.6
"			3.3	35.2
bh			3.5	35.0
WL			3.7	34.8

Ebers st

POSTED

Crossection of De Fae St (60')

N.L. of Brighton to Blvd

	4.43	31.55		27.12
	N.L. of Brighton			
EL			4.7	26.9
bl			4.7	26.9
4			5.0	26.6
b			5.1	26.5
4			5.4	26.2
bl			5.5	26.1
WL			5.7	25.9
	50' N of Brighton st			
WL			5.5	26.1
bl			5.5	26.1
4			5.2	26.4
b			4.8	26.8
4			4.8	26.8
bl			4.6	27.0
EL			4.5	27.1

POSTED

31.55

De Fae st

	100' N of Brighton			
EL			4.6	27.0
bl			4.7	26.9
4			4.7	26.9
b			4.6	27.0
4			5.1	26.5
bl			5.1	26.5
WL			5.4	26.2
	150 N of Brighton st			
WL			5.2	26.4
bl			5.2	26.4
4			5.1	26.5
b			4.6	27.0
4			4.6	27.0
bl			4.3	27.3
EL			4.4	27.2

POSTED

3155

	200'	N of	Brighton	
EL			4,1	27.5
bb			4,6	27.0
"			4,6	27.0
b			4,7	26.9
"			5,0	26.6
bb			5,0	26.6
WL			5,2	26.4
	215'	N = SL of	Sony Branch	
WL			5,3	26.3
bb			5,1	26.5
"			5,1	26.5
b			4,9	26.7
"			4,7	26.9
bb			4,7	26.9
EL			4,4	27.2

3155 De Fac 25

	N Sin of	Sony Branch		
EL			4,5	27.1
bb			4,6	27.0
"			4,6	27.0
b			4,4	27.2
"			4,9	26.7
bb			5,2	26.4
WL			5,5	26.1
	50'	N of	Sony Branch	
WL			5,3	26.3
bb			5,2	26.4
"			5,1	26.5
b			4,6	27.0
"			4,8	26.8
bb			4,6	27.0
EL			4,8	26.8

		3155		
	160'	N of	Sony	Branch
EL			5,0	26.6
bh			4,9	26.7
y			5,0	26.6
b			5,0	26.6
y			5,5	26.1
bh			5,5	26.1
WL			5,7	25.9
	150'	N of	Sony	Branch
WL			5,6	26.0
bh			5,4	26.2
y			5,2	26.4
b			4,8	26.8
y			5,2	26.4
bh			4,8	26.8
EL			4,8	26.8

		3155			De Forest
	200'	N of	Sony	Branch	
EL			5,3	26.3	
bh			5,3	26.3	
y			5,2	26.4	
b			5,2	26.4	
y			5,7	25.9	
bh			5,6	26.0	
WL			5,7	25.9	
TP	5,20	31.00	5,75	25.80 (79)	Bm
	215'	N =	S.L. of	Muni	
WL			5,2	25.8	
bh			5,1	25.9	
y			5,2	25.8	
b			4,7	26.3	
y			4,7	26.3	
bh			4,7	26.3	
EL			4,7	26.3	

31,00

	N Sin of	Muir	st (50)
EL		48	26.2
bb		48	26.2
y		49	26.1
b		50	26.0
y		51	25.9
bb		51	25.9
WL		51	25.9
	50' N of	Muir	st
WL		52	25.8
bb		50	26.0
y		49	26.1
b		48	26.2
y		50	26.0
bb		48	26.2
EL		47	26.3

31,00

De Toe st

	100' N of	Muir	st
EL		46	26.4
bb		47	26.3
y		46	26.4
b		47	26.3
y		49	26.1
bb		51	25.9
WL		52	25.8
	150' N of	Muir	st
WL		49	26.1
bb		48	26.2
y		49	26.1
b		47	26.3
y		48	26.2
bb		44	26.6
EL		44	26.6

31.00

200' N of Muir st

EL		4,8	26.2	
bl		4,7	26.3	
y		4,8	26.2	
b		4,7	26.3	
y		4,8	26.2	
bl		5,0	26.0	
WL		5,0	26,0	

215' N = S Line of Voltair (8[illegible]

WL		4,93	26.07	BM SW Voltair
bl		5,0	26.0	
y		4,8	26.2	
b		4,7	26.3	
y		4,9	26.1	
bl		4,6	26.4	
EL		4,5	26,5	

31.00

D Fox st

N Line of Voltair st

EL		4,9	26.1	
bl		4,8	26.2	
y		5,0	26.0	
b		4,6	26.4	
y		5,0	26.0	
bl		4,9	26.1	
WL		5,0	26.0	

50' N of Voltair

WL		5,4	25.6	
bl		5,3	25.7	
y		5,1	25.9	
b		4,8	26.2	
y		5,0	26.0	
bl		5,0	26.0	
EL		5,0	26.0	

31.00

	100'	N of	Voltair	
Es			4,9	26.1
bh			4,8	26.2
4			5,0	26.0
b			4,9	26.1
4			5,3	25.7
bh			5,4	25.6
Ws			5,6	25.4
	150'	N of	Voltair st	
Ws			5,5	25.5
bh			5,3	25.7
4			5,4	25.6
b			5,1	25.9
4			5,2	25.8
bh			5,1	25.9
Es			4,9	26.1

31.00 De Zaer

	200'	N of	Voltair st	
Es			5,2	25.8
bh			5,3	25.7
4			5,4	25.6
b			5,2	25.8
4			5,7	25.3
bh			5,6	25.4
Ws			5,7	25.3
				Bm
TP	4,56	29.92	5,64	25,36
	215' N =		S Sin of Sotus st (50)	
Ws			4,3	25.6
bh			4,6	25.3
4			4,2	25.7
b			4,4	25.5
4			4,4	25.5
bh			4,4	25.5
Es			4,1	25.8

29.92

	N Line of	Latus st		
EL			4,3	25.6
bh			4,3	25.6
4			4,3	25.6
b			4,2	25.7
4			4,5	25.4
bh			4,6	25.3
WL			4,6	25.3
	50'	N of	Latus	
WL			4,6	25.3
bh			4,6	25.3
4			4,5	25.4
b			4,2	25.7
4			4,5	25.4
bh			4,3	25.6
EL			4,3	25.6

29.92

	100'	N of	Latus st	
EL			4,4	25.5
bh			4,4	25.5
4			4,6	25.3
b			4,3	25.6
4			4,7	25.2
bh			4,4	25.5
WL			4,6	25.3
	112'	N =	S L Blvd on	West
WL			4,8	25.1
bh			4,7	25.2
4			4,8	25.1
b			4,6	25.3
4			4,7	25.2
bh			4,7	25.2
EL			4,6	25.3

POSTED

	29.92				
	112' n on West 130' n on E } = S Line of Blvd				
Et			4.7	25.0	
bh			4.7	25.2	
y			4.7	25.2	
b			4.7	25.2	
y			5.0	24.9	
bh			4.7	25.2	
Wh			4.8	25.1	

Clough Inman Rodgers	Crossection of Cable st (60) Blvd. Lotus } to N S Brighton				
5.19.09	4.21	22.99		18.78	BM NE Lotus
	S Line of Lotus st				
Et			4.2	18.8	
bh			4.2	18.8	
y			4.5	18.5	
b			4.5	18.5	
y			4.8	18.2	
bh			4.8	18.2	
Wh			5.0	18.0	
	45' S on W 50' S on E } 50' S of Lotus				
Wh			5.0	18.0	
bh			4.9	18.1	
y			4.7	18.3	
b			4.6	18.4	
y			4.6	18.4	
bh			4.2	18.8	
Et			4.2	18.8	

2299

	100'	S of	Lotus	
EL			4,5	18.5
bh			4,4	18.6
y			4,6	18.4
b			4,6	18.4
y			4,9	18.1
bh			4,8	18.2
WL			5,1	17.9
	150'	S of	Lotus st	
WL			5,3	17.7
bh			5,3	17.7
y			5,2	17.8
b			4,7	18.3
y			4,6	18.4
bh			4,4	18.6
EL			4,4	18.6

2299 — Cable st

	200'	S of	Lotus		
EL			4,6	18.4	
bh			4,6	18.4	
y			4,9	18.1	
b			4,8	18.2	
y			5,1	17.9	
bh			5,1	17.9	
WL			5,3	17.7	
	215'	S of	Lotus	= N S of Voltaire (80)	
WL			5,3	17.7	
bh			5,0	18.0	
y			5,1	17.9	
b			4,8	18.2	
y			5,0	18.0	
bh			4,8	18.2	
EL			4,7	18.3	
TP	3,61	21.68	4,92	18.07	Bm SE to Voltaire

21.68

Slin of Voltair st

EL			3,6	18.1
bl			3,7	18.0
y			3,8	17.9
b			3,9	17.8
y			4,2	17.5
bl			4,7	17.0
WL			5,5	17.2

50' S of Voltair

WL			4,6	17.1
bl			5,2	16.5
y			4,6	17.1
b			4,0	17.7
y			4,0	17.7
bl			3,9	17.8
EL			3,9	17.8

21.68

Cable

100 S of Voltair

EL			4,1	17.6
bl			4,1	17.6
y			4,3	17.4
b			4,3	17.4
y			4,7	17.0
bl			5,2	16.5
WL			5,1	16.6

150 S of Voltair st

WL			5,1	16.6
bl			5,1	16.6
y			4,8	16.9
b			4,5	17.2
y			4,5	17.2
bl			4,6	17.1
EL			4,6	17.1
EL			4,2	17.5

21,68

	200'	S of	Valtan st	
EL			4,4	17.3
bh			4,6	17.1
y			4,8	16.9
b			4,9	16.8
y			4,9	16.8
bl			5,2	16.5
WL			5,3	16.4
	245'	S of =	NL of Muir (50')	
WL			5,5	16.2
bh			5,2	16.5
y			5,2	16.5
b			4,8	16.9
y			4,8	16.9
bl			4,7	17.0
EL			4,6	17.1

21,68

Cable st

	S Line of		Muir st		
EL			4,9	16.8	
bh			4,8	16.9	
y			5,1	16.6	
b			5,1	16.6	
y			5,4	16.3	
bl			5,5	16.2	
WL			5,47	16.21	✓ B 2 SW Muir
	50	S of	Muir st		
WL			5,6	16.1	
bh			5,6	16.1	
y			5,6	16.1	POSTED
b			5,3	16.4	
y			5,3	16.4	
bl			5,0	16.7	
EL			5,0	16.7	

2168

	100'	S of	Main st	
EL			5.0	16.7
bh			4.9	16.8
y			5.2	16.5
b			5.1	16.6
y			5.6	16.1
bh			5.8	15.9
WL			6.0	15.7
TP	4.44	2009	6.03	15.65
	150'	S of	Main st	
WL			4.5	15.6
bh			4.3	15.8
y			4.2	15.9
b			3.9	16.2
y			3.8	16.3
bh			3.5	16.6
EL			3.4	16.7

2009

	200'	S of	Main st	
EL			3.6	16.5
bh			3.8	16.3
y			4.0	16.1
b			4.1	16.0
y			4.6	15.5
bh			4.7	15.4
WL			4.8	15.3
	215'	S =	N L of Long Branch (50)	
WL			5.0	15.1
bh			4.8	15.3
y			4.5	15.6
b			4.1	16.0
y			4.1	16.0
bh			3.9	16.2
EL			3.6	16.5

2009

S Line of Long Branch

E2	4,1	16.0
bl	4,3	15.8
4	4,4	15.7
b	4,3	15.8
4	4,8	15.3
bl	5,0	15.1
W2	5,1	15.0

150 S of Long Branch

W2	5,2	14.9
bl	5,1	15.0
4	5,0	15.1
b	4,9	15.2
4	4,7	16.4
bl	4,5	15.6
E2	4,3	15.8

2009

table

1 W S of Long Branch

E2	4,4	15.7
bl	4,5	15.6
4	4,8	15.3
b	4,9	15.2
4	5,1	15.0
bl	5,2	14.9
W2	5,3	14.8

150 S of Long Branch

W2	5,2	14.9
bl	5,4	14.7
4	5,5	14.6
b	5,2	14.9
4	5,0	15.1
bl	4,4	15.7
E2	4,5	15.6

2069

	200	S of	Long	Branch
EL			4,8	15.3
bl			5,0	15,1
y			5,3	14.8
b			5,2	14,9
y			5,3	14.8
bl			5,6	14.5
WL			5,7	14.4
	215'	S of	N L	Brighton
WL			5,6	14.5
bl			5,8	14.3
y			5,5	14.6
b			5,3	14.8
y			5,4	14.7
bl			5,2	14.9
EL			4,9	15.2

POSTED

Crossection of Voltair St (80')
from W L of P L 105 to Ocean

					BM
	2.51	12.78		10.27	
	W L of P L 105 = 96½' E of Bacon St				
SL			2.50	10.3	
bh			2.5	10.28	
y			2.4	10.4	
+12	2' S Rail		2.5	10.3	
b + 4	= 2' N Rail		2.3	10.5	
y			2.4	10.4	
bh			2.3	10.5	
nL			2.3	10.5	
	50'	E of	Bacon St		
nL			2.7	10.1	
bh			2.6	10.2	
y			3.1	9.7	
b			2.9	9.9	
y			2.7	10.1	
+2			2.5	10.3	
+11			3.0	9.8	
bh			2.8	10.0	
SL			2.8	10.0	

1278 POSTED Voltair St

35

	10'	E of	Bacon	St	
SL	= 2' S E of Rail		3.4	9.4	
SE Rail			3.25	9.53	
NW Rail			3.02	9.26	
RR Track cuts off corner					
	E Line of	Bacon St	(60')		
SL	= 1' from NW Rail		3.3	9.5	
bh			3.7	9.1	
y			3.4	9.4	
b			3.1	9.7	
y			3.2	9.6	
bh			3.0	9.8	
nL			3.0	9.8	

1278

E bb of Bacon v

nl			32	9.6
bh			33	9.5
y			34	9.4
b			35	9.3
y			37	9.1
bh			38	9.0
Sl			37	9.1

E 1/4 of Bacon

Sl			41	8.7
bh			40	8.8
y			39	8.9
b			36	9.2
y			36	9.2
bh			35	9.3
nl			35	9.3

1278

Vastain

Center of Bacon

nl			35	9.3
bh			37	9.1
y			38	9.0
b			38	9.0
y			39	8.9
bh			42	8.6
Sl			42	8.6

W 1/4 of Bacon

Sl			44	8.4
bh			43	8.5
y			41	8.7
b			39	8.9
y			39	8.9
bh			37	9.1
nl			36	9.2

1278

	Wbb of	Bacon st		
nr		3,9	8.9	
bl		4,0	8.8	
y		4,2	8.6	
b		4,3	8.5	
y		4,4	8.4	
bl		4,5	8.3	
Sr		4,5	8.3	
	Wlin of	Bacon		
Sr		4,8	8.0	
bl		4,7	8.1	
y		4,6	8.2	
b		4,4	8.4	
y		4,5	8.3	
bl		4,5	8.3	
nr		4,2	8.6	

1278 Valtin

	50'	wf	Bacon st	
nr			4,8	8.0
bl			4,9	7.9
y			5,0	7.8
b			5,2	7.6
y			5,1	7.7
bl			5,3	7.5
Sr			5,3	7.5
	100'	wf	Bacon st	
Sr			5,9	6.9
bl			5,9	6.9
y			5,9	6.9
b			5,7	7.1
y			5,4	7.4
bl			5,6	7.2
nr			5,3	7.5

		1278		
	150'	w f	Bacon	
nl			6,1	6.7
bl			6,4	6.4
"			6,5	6.3
l			6,4	6.4
"			6,5	6.3
bl			6,7	6.1
Sl			6,8	6.0
	200'	w f	Bacon	
Sl			7,5	5.3
bl			7,6	5.2
"			7,5	5.3
l			7,4	5.4
"			7,2	5.6
bl			7,1	5.7
nl			7,0	5.8
TP	2,35	8.52	6,61	6,17

		8.52		Voltair
	250'	w f	Bacon	
nl			3,1	5.4
bl			3,3	5.2
"			3,4	5.1
l			3,5	5.0
"			3,7	4.8
bl			3,8	4.7
Sl			3,7	4.8
	300'	w f	Bacon	
Sl			4,1	4.4
bl			4,2	4.3
"			4,1	4.4
l			4,0	4.5
"			4,0	4.5
bl			3,9	4.6
nl			3,7	4.8

852

	350	w f	Bacon	st
nL			4.1	4.4
bl			4.4	4.1
y			4.2	4.3
b			4.1	4.4
y			4.3	4.2
bl			4.4	4.1
SL			4.4	4.1
	400	w f	Bacon	
SL			4.6	3.9
bl			4.6	3.9
y			4.5	4.0
bl			4.6	3.9
y			4.6	3.9
bl			4.6	3.9
nL			4.4	4.1

852

Vattari ...

	450	w f	Bacon	st
nL			4.6	3.9
bl			4.8	3.7
y			5.0	3.5
b			5.0	3.5
y			5.2	3.3
bl			5.0	3.5
SL			5.0	3.5
	500	w f	Bacon	st
SL			5.2	3.3
bl			5.4	3.1
y			5.3	3.2
b			5.1	3.4
y			5.2	3.3
bl			5.2	3.3
nL			5.1	3.4

852

	550'	w of	Boca		
nl			5,6	2.9	
bh			5,7	2.8	
y			5,5	3.0	
b			5,7	2.8	
y			5,8	2.7	
bh			5,7	2.8	
sl			5,8	2.7	
TP	4,65	6.88	6,27	2,23	SE bb of Abbott & Voltair
	600'	w = E ½ of	Abbott	60')	
sl			4,6	2.3	
bh			4,7	2,2	
y			4,6	2,3	
b			4,3	2.6	
y			4,3	2.6	
b			4,4	2.5	
nl			4,4	2.5	

688

Voltair

40

	E bb of	Abbott			
nl			4,4	2.5	
bh			4,5	2.4	
y			4,4	2.5	
b			4,4	2.5	
y			4,4	2.5	
bh			4,7	2.2	
sl			4,8	2.1	
	E ¼ of		Abbott		
sl			5,0	1.9	
bh			4,8	2,1	
y			4,8	2.1	
b			4,9	2.0	
y			4,9	2.0	
bh			5,0	1.9	
nl			5,1	1.8	

6.88

Center of Abbott

nl	4,4	2.5
bl	4,3	2.6
4	4,3	2.6
6	4,3	2.6
7	4,3	2.6
bl	4,3	2.6
sl	4,3	2.6

W ¼ of Abbott

sl	5,0	1.9
bl	4,8	2.0
4	5,0	1.9
6	4,8	2.0
4	5,0	1.9
bl	5,1	1.8
nl	5,1	1.8

6.88

W-bl of Abbott

nl	4,8	2.1
bl	5,0	1.9
4	4,7	2.2
6	5,0	1.9
4	5,1	1.8
6	5,0	1.9
sl	5,1	1.8

W 4mi of Abbott

sl	5,2	1.7
bl	5,2	1.7
4	5,2	1.7
6	5,0	1.9
4	5,1	1.8
6	5,2	1.7
nl	4,8	2.0

6.88

	50	wf	Abbott	
m2			5.3	1.6
bl			5.7	1.2
y			5.6	1.3
b			5.7	1.2
y			5.7	1.2
bl			5.5	1.4
SL2			5.7	1.2
	100	wf	Abbott	
SL2			6.0	0.9
bl			6.0	0.9
y			5.9	1.0
b			5.8	1.1
y			5.4	1.5
bl			3-5	1.4
m2			5-7	1.2
TP	3.47	6.39	3.96	2.92

6.39

Vallon

	150	wf	Abbott	
m2			4.0	2.4
bl			4.2	2.2
y			4.2	2.2
b			4.4	2.0
y			44	2.0
bl			4.5	1.9
SL2			4.5	1.9
	200	wf	Abbott	
SL2			4.7	1.7
bl			4.7	1.7
y			4.7	1.7
b			4.6	1.8
y			4.4	2.0
bl			4.4	2.0
m2			4.4	2.0

639

	250	w f	Abbott	st
nL			4,4	2.0
bL			4,4	2.0
y			4,4	2.0
b			4,7	1.7
y			4,8	1.6
bL			4,8	1.6
SL			4,8	1.6
	300	w f	Abbott	
SL			4,8	1.6
bL			4,8	1.6
y			4,8	1.6
b			4,8	1.6
y			4,6	1.8
bL			4,6	1.8
nL			4,7	1.7

Gradual slope to Beach
Blad not located

Crossection of Abbott St (60')
S Sin of Sotus St to N Sin of OBE [illegible]

	4.85	7.08		2.23
EL	[illegible]		4.4	2.7
bl			4.5	2.6
y			4.9	2.2
b			4.2	2.9
y			5.0	2.1
bl			4.0	3.1
WL			3.7	3.2
	50	S of	Sotus	
WL			3.8	3.3
bl			3.8	3.3
y			5.0	2.1
b			4.3	2.8
y			5.0	2.1
bl			4.5	2.6
EL			4.5	2.6

POSTED

7.08

Abbott St

44

	100'	S of	Sotus	St
EL			4.4	2.7
bl			4.6	2.5
y			5.0	2.1
bl			4.5	2.6
y			5.0	2.1
bl			3.5	3.6
WL			3.6	3.5
	150'	S of	Sotus	
WL			4.4	2.7
bl			4.4	2.7
y			5.7	2.0
b			4.6	2.5
y			5.3	1.8
bl			4.7	2.4
EL			4.6	2.5

7.08

	200'	S of	Lotus	st
EL			4,7	2.4
bl			4,9	2.2
y			5,2	1.9
b			4,7	2.4
y			5,4	1.7
bl			4,9	2.2
WL			5,1	2.0
	215'	S = N L of Voltair (80)		
WL			5,1	2.0
bl			5,0	2.1
y			5,3	1.8
b			4,6	2.5
y			5,2	1.9
bl			4,5	2.6
EL			4,6	2.5
TP	4.41	6.64	4,85	2,25

Bm

664

Abbott

	SL	S of	Voltair	st
EL			4,41	2.2
bl			4,5	2.1
y			4,7	1.9
b			4,2	2.4
y			4,6	2.0
bl			4,8	1.8
WL			5,0	1.6
	50'	S of	Voltair	
WL			5,1	1.5
bl			5,4	1.2
y			5,6	1.6
b			4,4	2.2
y			4,8	1.8
bl			4,8	1.8
EL			4,6	2.0

664

	100'	S of	Voltair	
EL			4,5	2.1
bl			4,6	2.0
y			5,2	1.4
b			4,6	2.0
y			5,0	1.6
bl			5,0	1.6
WL			5,1	1.5
	150'	S of	Voltair st	
WL			5,2	1.4
bl			5,1	1.5
y			5,0	1.6
b			4,5	2.1
y			5,0	1.6
bl			4,6	2.0
EL			4,5	2.1

664 Abbott

	200'	S of	Voltair	
EL			4,3	2.3
bl			4,4	2.2
y			4,8	1.8
b			4,3	2.3
y			5,0	1.6
bl			4,6	2.0
WL			4,9	1.7
	215'	S of =	N S of	Muir st (50')
WL			4,8	1.8
bl			4,6	2.0
y			5,1	1.5
b			4,5	2.1
y			5,0	1.6
bl			4,5	2.1
EL			4,4	2.2

664

	Sin of	Muir	st
EL		4,5	2.1
bl		4,8	1.8
g		4,8	1.8
b		4,6	2.0
y		4,7	1.9
bl		4,7	1.9
WL		4,7	1.9
	50' S of	Muir	
WL		4,7	1.9
bl		4,7	1.9
y		4,8	1.8
b		4,4	2.2
y		4,9	1.7
bl		4,4	2.2
EL		4,2	2.4

664 Abbott

47

	100	S of	Muir	st
EL			4,2	2.4
bl			4,3	2.3
y			4,4	2.2
b			4,1	2.5
y			4,5	2.1
bl			4,5	2.1
WL			4,5	2.1
	130 S = NL OB Extention No. 1			
WL			4,3	2.3
bl			4,3	2.3
y			4,7	1.9
b			4,0	2.6
y			4,1	2.5
bl			3,6	3.0
EL			3,7	2.9

Continued on Page 50

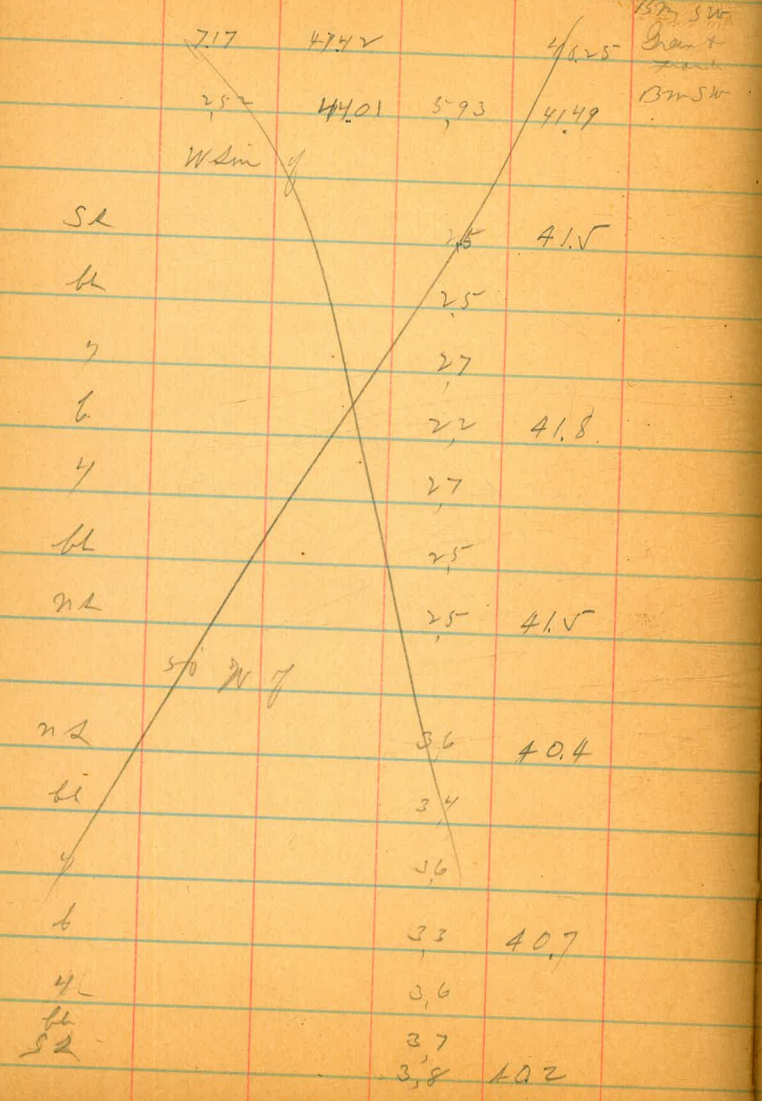
Crossection of Larkspur

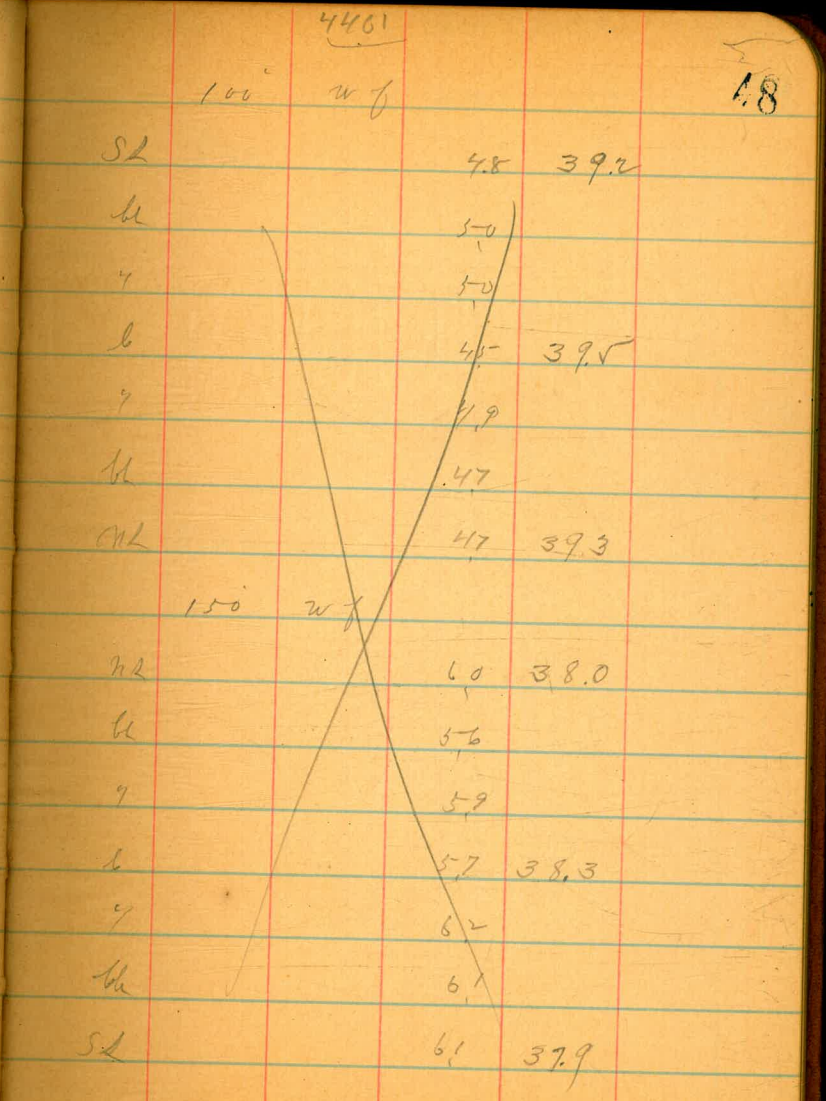
E L of R L 105

	7.17	47.42		40.25	Bm SW Grant + [illegible]
	2.52	44.01	5.93	41.49	Bm SW
	W Sin of				
SL			2.5	41.5	
bl			2.5		
y			2.7		
b			2.2	41.8	
y			2.7		
bl			2.5		
nL			2.5	41.5	
	50 W of				
nL			3.6	40.4	
bl			3.4		
y			3.6		
b			3.3	40.7	
yL			3.6		
bl			3.7		
SL			3.8	40.2	

4461

	100	W of		
SL			4.8	39.2
bl			5.0	
y			5.0	
b			4.5	39.5
y			4.9	
bl			4.7	
nL			4.7	39.3
	150	W of		
nL			6.0	38.0
bl			5.6	
y			5.9	
b			5.7	38.3
y			6.2	
bl			6.1	
SL			6.1	37.9





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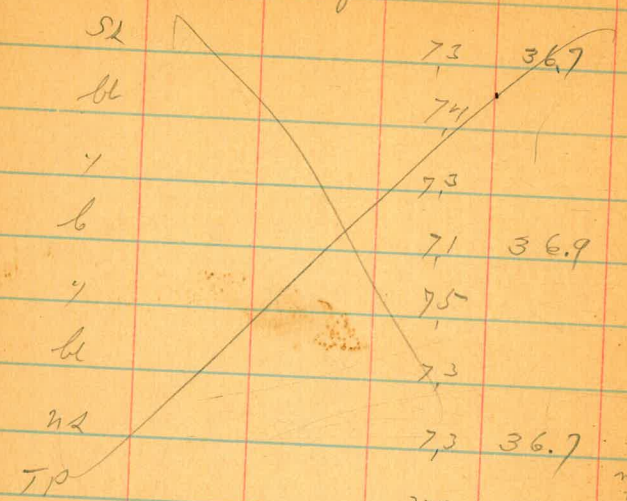


7,3 36,7
7,4
7,3
7,1 36,9
7,5
7,3
7,3 36,7
7,29 36,22

n2
250

Abbott St Continued from

Page 47

667 from Page 55

150' S of Muir

WL			4,5	2.2
bl			4,4	2.3
y			4,4	2.3
b			4,2	2.5
y			4,3	2.4
bl			4,3	2.4
EL			4,2	2.5

200' S of Muir St

EL			4,0	2.7
bl			4,1	2.6
y			4,2	2.5
b			4,3	2.4
y			4,7	2.0
bl			4,3	2.4
WL			4,2	2.5

667

Abbott St

10

215' S = N S of Long Branch (10)

WL			4,1	2.6
bl			4,3	2.4
y			4,7	2.0
b			4,2	2.5
y			4,7	2.0
bl			4,1	2.6
EL			4,3	2.4

Cross section of Muir St (50')

cont'd from 463-50

W Line of P.L. 105 W to Blvd

	11.56	0.75	10:41 B.M. Volare & Bacon	

Pueblo Line W.L. of 105 = 965 E of Bacon

S.L.		2.0	9.6	
C		1.7	9.9	
1/4	POSTED	1.7	9.9	
C		1.5	10.1	
1/4		1.9	9.7	
C		1.7	9.9	
N.L.		1.9	9.7	

50' E of Bacon

N.L.		2.5	9.1	
C		2.5	9.1	
1/4		2.9	8.7	
C		2.4	9.2	
1/4		2.6	9.0	
C		2.6	9.0	
S.L.		2.7	8.9	

X sections plotted for grading & paving

CAT 9-22

11.56 Muir

E Line of Bacon

S.L.		4.0	7.6	✓
C		3.7	7.9	
1/4		3.4	8.2	
C		3.3	8.3	
1/4		3.8	7.8	
C		3.5	8.1	
N.L.		3.4	8.2	

East curb of Bacon

N.L.		3.1	8.5	✓
C		3.8	7.8	
1/4		4.0	7.6	
C		3.6	8.0	
1/4		3.7	7.9	
C		4.0	7.6	
S.L.		4.0	7.6	

East quarter of Bacon St. = 2' E Roi

S.L.	4.3	7.3	✓
c	4.3	7.3	
1/4	4.2	7.4	
c	4.1	7.5	
1/4	4.2	7.4	
c	4.1	7.5	
N.L.	4.0	7.6	

Elevation of Rail Ocean Beach car line at North line of Muir = 3.87 7.69

Center of Bacon St. = 3' W of Roi

N.L.	4.1	7.5	✓
c	4.0	7.6	
1/4	4.2	7.4	
c	4.1	7.5	
1/4	4.2	7.4	
c	4.4	7.2	
S L	4.5	7.1	

Elevation of Rail, Ocean Beach car line at South line of Muir 4.27 7.29

West quarter Bacon St. ✓

S.L.	4.6	7.0
c	4.6	7.0
1/4	4.3	7.3
c	4.2	7.4
1/4	4.4	7.2
c	4.3	7.3
N.L.	3.8	7.8

West curb Bacon St. ✓

N.L.	4.3	7.3
c	4.7	6.9
1/4	4.7	69
c	4.4	7.2
1/4	4.5	7.1
c	4.7	6.9
S.L.	4.7	6.9

11.56

West line of Bacon St. ✓

S. L.		4.8	6.8	
C		4.6	7.0	
1/4		4.7	6.9	
C		4.3	7.3	
1/4		4.9	6.7	
C		4.7	6.9	
N. L.		4.5	7.1	

50' West of Bacon St

N. L.		5.4	6.2	✓
C		5.4	6.2	
1/4		5.5	6.1	
C		5.5	6.1	
1/4		5.8	5.6	
C		5.8	5.6	
S. L.		5.9	5.7	
B.M. hub	1.75 S.W. Cor Bacon & Muir 8.49	4.82	6.74	

8.49 Muir 50'

100' West Bacon St.

S. L.		3.4	5.1	✓
C		3.4	5.1	
1/4		3.3	5.2	
C		3.3	5.2	
1/4		3.5	5.0	
C		3.4	5.1	
N. L.		3.2	5.3	

150' West Bacon St. ✓

N. L.		3.8	4.7	
C		3.9	4.6	
1/4		4.0	4.5	
C		3.9	4.6	
1/4		4.2	4.3	
C		4.1	4.4	
S. L.		4.0	4.5	

8.49

200' West Bacon Mt.

S.L.	4.4	4.1
C	4.4	4.1
¼	4.3	4.2
C	4.3	4.2
¼	4.2	4.3 ✓
C	4.2	4.3
N.L.	4.2	4.3

250' West Bacon Mt. ✓

N.L.	4.5	4.0
C	4.4	4.1
¼	4.7	3.8
C	4.5	4.0
¼	4.6	3.9
C	4.8	3.7
S.L.	4.7	3.8

8.49 Mins (50)'

300' West Bacon Mt.

S.L.	4.8	3.7
C	4.7	3.8
¼	4.9	3.6
C	4.7	3.8 ✓
¼	5.0	3.5
C	4.4	4.1
N.L.	4.5	4.0

350' West Bacon Mt.

N.L.	4.9	3.6
C	5.0	3.5
¼	5.4	3.1
C	5.0	3.5
¼	5.2	3.3 ✓
C	5.0	3.5
S.L.	5.1	3.4

8.49

400' West Bacon Mt.

M.L.			5.4	3.1	
C			5.4	3.1	
¼			5.4	3.1	
C			5.3	3.2	
¼			5.5	3.0	✓
C			5.3	3.2	
N.L.			5.0	3.5	
T.P.	2.91	6.67	4.73	3.76	

450' West Bacon Mt.

N.L.			3.5	3.2	
C			3.9	2.9	
¼			4.0	2.7	
C			3.4	3.3	✓
¼			3.6	3.1	
C			3.6	3.1	
M.L.			3.5	3.2	

6.67

Muir 50'

55

500' West Bacon Mt.

M.L.	3.7	3.0	
C	3.7	3.0	
¼	3.9	2.8	
C	3.8	2.9	
¼	4.2	2.5	✓
C	4.0	2.7	
N.L.	3.9	2.8	

550' West Bacon Mt.

N.L.	4.3	2.4	
C	4.4	2.3	
¼	4.4	2.3	
C	4.0	2.7	
¼	4.4	2.3	✓
C	4.3	2.4	
M.L.	4.2	2.5	

600' West Bacon St. = East line Abbott St.

N.L.	4.6	2.1
C	4.7	2.0
¼	5.0	1.7
C	4.5	2.2
¼	4.7	2.0
C	4.6	2.1
N.L.	4.6	2.1

East curb of Abbott St. (60)'

N.L.	4.7	2.0
C	4.8	1.9
¼	4.8	1.9
C	4.7	2.0
¼	5.2	1.5
C	4.7	2.0
N.L.	4.8	1.9

East quarter of Abbott St. (60)

N.L.	5.2	1.5
C	5.0	1.7
¼	5.0	1.7
C	5.0	1.7
¼	5.0	1.7
C	5.2	1.5
N.L.	5.1	1.6

Center of Abbott St.

N.L.	4.7	2.0
C	4.7	2.0
¼	4.7	2.0
C	4.7	2.0
¼	4.6	2.1
C	4.7	2.0
N.L.	4.7	2.0

6.67

West quarter Abbott St

S.L.	5.2	1.5
C	5.0	1.7
¼	5.1	1.6
C	5.2	1.5
¼	5.1	1.6
C	5.2	1.5
N.L.	5.1	1.6

West curb Abbott St

N.L.	4.9	1.8
C	4.8	1.9
¼	4.8	1.9
C	5.0	1.7
¼	5.0	1.7
C	4.8	1.9
S.L.	5.0	1.7

6.67

Main (50)

57

West line Abbott St

S.L.	4.8	1.9
C	4.8	1.9
¼	5.0	1.7
C	5.0	1.7
¼	4.8	1.9
C	5.0	1.7
N.L.	5.0	1.7

50' West Abbott St.

N.L.	5.3	1.4
C	5.2	1.5
¼	5.2	1.5
C	5.1	1.6
¼	5.2	1.5
C	5.1	1.6
S.L.	5.2	1.5

6.67

100' West Abbott St.

S.L.			5.4	1.3	
c			5.3	1.4	
1/4			5.4	1.3	
c			5.3	1.4	
1/4			5.3	1.4	✓
c			5.3	1.4	
N.L.			5.5	1.2	
T.P.	5.00	6.50	5.17	1.50	

150' West Abbott St.

N.L.			5.5	1.0	
c			5.6	0.9	
1/4			5.5	1.0	
c			5.5	1.0	✓
1/4			5.4	1.1	
c			5.3	1.2	
S.L.			5.2	1.3	

6.50

Muir (50)

58

200' West Abbott St.

S.L.			3.9	2.6	
c			3.9	2.6	
1/4			3.9	2.6	✓
c			3.9	2.6	
1/4			3.7	2.8	✓
c			3.8	2.7	
N.L.			3.9	2.6	

POSTED

250' West Abbott St.

N.L.			3.5	3.0	
c			3.6	2.9	
1/4			3.6	2.9	
c			3.6	2.9	
1/4			3.5	3.0	✓
c			3.4	3.1	
S.L.			3.5	3.0	

6.50

300' West Abbott Mt.

S.L.	4.1	2.4
C	4.1	2.4
¼	3.9	2.6
C	3.9	2.6
¼	3.7	2.8
C	3.7	2.8
N.L.	3.8	2.7

350' West Abbott Mt.

N.L.	4.4	2.1
C	4.3	2.2
¼	4.4	2.1
C	4.5	2.0
¼	4.5	2.0
C	4.5	2.0
S.L.	4.5	2.0

6.50

Omits (50)'

400' West Abbott Mt.

S.L.	4.8	1.7
C	4.9	1.6
¼	5.0	1.5
C	4.8	1.7
¼	4.9	1.6
C	4.8	1.7
N.L.	4.9	1.6

450' West Abbott Mt.

N.L.	5.5	1.0
C	5.3	1.2
¼	5.1	1.4
C	5.0	1.5
¼	4.8	1.7
C	4.9	1.7
S.L.	4.9	1.6

6.50

497' on the South
464' on the North
} = East line Boulevard.

S. L.		5.3	1.2
C		5.3	1.2
¼		5.2	1.3
C	POSTED	5.3	1.2
¼		5.3	1.2
C		5.4	1.1
N. L.		5.7	0.8

Crossection of Bacon St (60)

From N.S. of Pacific Beach Ex No 1 to Blvd

N. Line of P.B.C. x No 1 = 129' S of Muir

	4.96	11.70		6.74 B.M. Imb. S.W. Cor. Bacon & Muir
W.L.			5.5	6.2
c			5.5	6.2
1/4			5.5	6.2
c	POSTED		4.7	7.0
1/4			5.2	6.5
c			5.1	6.6
E.L.			4.3	7.4

Elevation rail Ocean Beach car line, at the line of Pacific Beach extension No 1 = 5.10 6.6

11.70

(Bacon St 60)

100' South of Muir St

E.L.	4.4	7.3
c	4.5	7.2
1/4	4.2	7.5
c	5.0	6.7
1/4	5.0	6.7
c	5.1	6.6
W.L.	5.5	6.2

50' South of Muir St.

W.L.	5.4	6.3
c	5.2	6.5
1/4	5.2	6.5
c	5.0	6.7
1/4	4.8	6.9
c	4.3	7.4
E.L.	4.2	7.5

South line of Main St

E.L.	4.1	7.6
C	4.1	7.6
¼ = 2' E of Rail	4.5	7.2
Height of rail car line	4.41	7.3
C = 3' W of Rail	4.7	7.0
¼	4.7	7.0
C	4.9	6.9
W.L.	5.0	6.7

North line of Main St.

W.L.	4.7	7.0
C	4.5	7.2
¼	4.1	7.6
C = 3' W of Rail	4.1	7.6
Height of rail car line	4.02	7.7
¼ = 2' E of Rail	4.1	7.6
C	3.2	8.5
E.L.	3.6	8.1

50' North of Main St.

E.L.	3.1	8.6
C	3.4	8.3
¼	3.7	8.0
C	3.8	7.9
¼	4.1	7.6
C	4.2	7.5
W.L.	4.3	7.4

POSTED

100' North of Main St.

W.L.	4.0	7.7
C	3.7	8.0
¼	3.8	7.9
C	3.6	8.1
¼	3.6	8.1
C	3.0	8.7
E.L.	2.9	8.8

11.70

150' North of Muir Mt.

E.L.	2.7	9.0
C	2.9	8.8
¼	3.1	8.6
C	3.4	7.9
¼	3.6	8.1
C	3.7	8.0
W. L.	3.7	8.0

200' North of Muir Mt.

W. L.	3.6	8.1
C	3.5	8.2
¼	3.3	8.4
C	3.1	8.6
¼	2.4	9.3
C	2.7	9.0
E. L.	2.6	9.1

11.70

(Bacon Mt 60')

63

215' North of Muir Mt = North line Voltaire

Height of inter-rail car line = 1.95 9.7

E. L.	2.2	9.5
C	2.9	8.8
¼	3.0	8.7
C	3.1	8.6
¼	3.4	8.3
C	3.5	8.2
W. L.	3.7	8.1

2.45 13.26 0.89 10.81 BM. SPK in pole Voltaire & Bacon

North line of Voltaire Mt (60')

W. L.	4.7	8.6
C	4.5	8.8
¼	4.4	8.9
C	4.1	9.2
¼	4.0	9.3
C	3.7	9.6
E. L.	3.6	9.7

13.26

50' North of Voltaire St.

E.L.	3.5	9.8
C	3.4	9.5
¼	4.0	9.3
C	4.0	9.3
¼	4.1	9.2
C	4.3	9.0
W. L.	4.6	8.7

100' North of Voltaire St.

W. L.	4.5	8.8
C	4.4	8.9
¼	4.2	9.1
C	4.1	9.2
¼	3.8	9.5
C	3.6	9.7
E. L.	3.4	9.9

13.26 (Base St-60')

C.4

150' North of Voltaire St.

E.L.	3.5	9.8
C	3.6	9.7
¼	3.7	9.6
C	3.8	9.5
¼	4.1	9.2
C	4.2	9.1
W. L.	4.3	9.0

200' North of Voltaire St.

W. L.	4.2	9.1
C	4.1	9.2
¼	3.9	9.4
C	3.7	9.6
¼	3.8	9.5
C	3.7	9.6
E. L.	3.3	10.0

13.26

215' North of Voltaire St = So line Lotus St. (60')

E. L.	3.3	10.0
C	3.5	9.8
¼	3.7	9.6
C	3.9	9.4
¼	4.0	9.3
C	4.1	9.2
W. L.	4.3	9.0

B.M. Knob N.W. Cor Lotus & Bacon.
4.57 13.67 4.16 9.10

North line of Lotus St. (50')

W. L.	4.6	9.1
C	4.5	9.2
¼	4.3	9.4
C	4.1	9.6
¼	4.0	9.7
C	3.8	9.9
E. L.	3.7	10.0

13.67 (Bacon St. 60')

50' North of Lotus St.

E. L.	3.7	10.0
C	3.8	9.8
¼	4.0	9.7
C	4.1	9.6
¼	4.2	9.5
C	4.4	9.3
W. L.	4.5	9.2

100' North of Lotus St.

W. L.	4.3	9.4
C	4.4	9.3
¼	4.1	9.6
C	4.0	9.7
¼	3.9	9.8
C	3.7	10.0
E. L.	3.7	10.0

13.67

150' north of Lotus St.

E. L.	4.0	9.7
c	4.0	9.7
1/4	4.0	9.7
c	4.0	9.7
1/4	4.1	9.6
c	4.1	9.6
W. L.	4.0	9.7

177' north of Lotus St.

W. L.	4.4	9.3
c	4.3	9.4
1/4	4.2	9.5
c	4.5	9.2
1/4	4.4	9.3
c	4.7	9.0
E. L.	5.0	8.7

13.67

(Bacon St) 60'

66

241.7 on the West line Bacon
177.5 on the East line Bacon } = Gor line Boulevard.

E. L.	5.0	8.7
c	4.9	8.8
1/4	5.0	8.7
c	5.0	8.7
1/4	5.1	8.6
c	5.5	8.2
W. L.	5.8	7.9

Crossection of Abbott St (60')
From N Line of Lotus to ch Blvd
Continued from Page 44

	4.96	7.46		2.50
	N L of Lotus			
E L			4.6	2.9
bl			4.7	3.8
"			5.2	2.3
b			4.4	3.1
"			5.2	2.3
bl			4.3	3.2
W L			4.4	3.1

POSTED

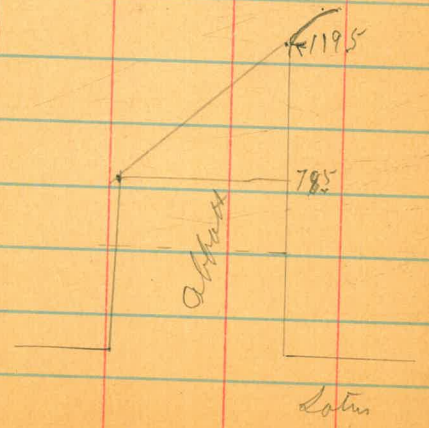
		7.46		
	50'	N of Lotus		
W L			4.2	3.3
bl			4.2	3.3
"			5.2	2.3
b			4.7	2.8
"			4.9	2.6
bl			5.1	2.4
E L			4.7	2.8
	78.5'	N of Lotus		
E L			4.9	2.6
bl			5.0	2.5
"			4.5	3.0
b			5.1	2.4
"			4.4	3.1
bl			4.6	2.9
W L			4.6	2.9

POSTED

7.46

78.5 m m Hg } = 5.2 of Blood
119.5 m m Hg }

W2	4.6	2.9
b2	4.7	2.8
4	4.4	3.1
b	44	3.1
4	55	2.0
b2	50	2.5
E2	5.1	2.4



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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.	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		Degrees
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	