400

LEVEL

F.B. 292

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

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 2/3
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

MICROFILMED
9 1964

292

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

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

Index

Xsec. Narragansett – Froude – Guizot		1
Xsec Bacon	Pacific – Santa Monica	5
Xsec Niagara – Ocean – Froude		23
Xsec Meade –	Park – Georgia	44
Xsec 31st St.	G – I	49
Xsec Sicard St	26th to S.H. Bay	60
Xsec Langley	N.L. K St – P.L. North	76

Benches in Ocean Beach

139.82	Hub	NE	bet	Santa Cruz &	6th
43.04	"	NE	"	" "	4th
29.04	"	SW	"	" "	3d
28.36	"	NE	"	" "	2nd
20.58	"	NE	"	Narragansett	2nd
31.07	"	NE	"	"	4
145.26	"	NE	"	"	6th
12.70	"	"	"	Niagara	2nd
26.45	"	"	"	"	4th
59.44	"	SW		"	5th

POSTED

Cross section of Narragansett St Continued from Book

BM	7.38	15-2.64		145.26
	50' S of Front St			
E2			0.0	152.6
lab			0.2	152.4
4			0.8	151.8
b			2.3	150.3
4			3.4	149.2
lab			4.7	147.9
W2			6.0	146.6
	100' S of Front St			
W2			3.1	149.5
lab			1.4	151.2
4			0.3	152.3
TP	12.50	164.74	0.40	152.24
b			11.4	153.3
4			9.8	154.9
lab			8.5	156.2
E2			7.4	157.3

164.74

2

	150' S of Front St			
E2			5.1	159.6
lab			6.5	158.2
4			7.4	157.3
b			8.3	156.4
4			9.2	155.5
lab			9.6	155.1
W2			9.7	155.0
	200' S of Front St			
W2			2.6	162.1
lab			3.0	161.7
4			3.6	161.1
b			3.0	161.7
4			2.6	162.1
lab			1.9	162.8
E2			1.2	163.5
TP	12.49	175.99	1.24	163.50

		175.99		
	250'	S of	Fronde St	
EL			6,7	169.3
bb			7,7	168.3
4			8,4	167.6
b			7,3	168.7
4			5,6	170.4
bb			5,0	171.0
WL			4,3	171.7
TP	12.05	187.10	0.94	175.08
	300'	S of	Fronde St	
WL			8,6	178.5
bb			8,8	178.3
4			9,4	177.7
b			9,5	177.6
4			9,2	177.9
bb			9,3	177.8
EL			9,8	177.3

		187.10		
	350'	S of	Fronde St	
EL			3,0	184.1
bb			2,8	184.3
4			2,8	184.3
b			2,9	184.2
4			3,3	183.8
bb			3,0	184.1
WL			1,0	186.1
TP	12.42	198.62	0.90	186.20
	400'	S of	Fronde	
WL			6,5	192.1
bb			6,9	191.7
4			7,9	190.7
b			8,2	190.4
4			8,4	190.2
bb			8,8	189.8
EL			8,9	189.7

POSTED

		19862		
	450'	S of	Fraude St	
EL			5,2	193.4
Cb			4,1	194.5
y			3,2	195.4
b			2,8	195.8
y			2,3	196.3
Cb			1,9	196.7
WL			1,5	197.1
TP	909	20685	0.86	197.76
	500'	S of	Fraude St	
WL			7,2	199.7
Cb			7,7	199.2
y			8,0	198.9
b			8,5	198.4
y			9,0	197.9
Cb			9,3	197.6
EL			10,1	196.8

		20685			
	550'	S of	Fraude St		
EL			7,5	199.4	
Cb			7,2	199.7	
y			6,9	200.0	
b			6,4	200.5	
y			6,2	200.7	
Cb			5,7	201.2	
WL			5,5	201.4	
	600'	S of	Fraude St = End		
WL			3,8	203.1	
Cb			4,2	202.7	
y			4,6	202.3	
b			4,8	202.1	
y			5,1	201.8	
Cb			5,3	201.6	
EL			5,5,7	201,28	NE Hub end of Namagunt

POSTED

Crossection of Bacon St (60')
Ocean Beach

PM	11.77	39.63		28.36	Santa Cruz 2nd NCE
TP	10.93	50.08	0.78	39.15	

W Line of Pacific St (80)

SL	3.1	47.0
bk	3.2	46.9
4	2.8	47.3
b	2.5	47.6
4	3.3	46.8
bk	2.0	48.1
	3.4	44.7
NL	9.2	40.9

20' Ea Pacific St

NL	5.5	44.6

25' Ea Pacific St

NL	1.1	49.1
bk	1.8	48.3
bk+4	2.6	47.5
	3.0	47.1
b	2.6	47.5

50.08

50' Ea Pacific St

NL	1.0	49.1
bk	1.4	48.7
4	3.0	47.1
b	3.0	47.1
4	3.2	46.9
bk	3.2	46.9
SL	3.7	46.4

100' Ea Pacific St

SL	5.6	44.5
bk	4.8	45.3
4	4.8	45.3
b	4.6	45.5
4	4.8	45.3
	4.5	45.6
45	2.6	47.5
45		
bk	2.2	47.9
NL	1.7	48.4

50.08

	150' E of Pacific St				TP	2.37	40.21	12.24	37.84	
NL			4,5	45.6		250' E of Pacific St				
bh			5,3	44.8	SL			8,0		32.2
+4			5,2	44.9	bh			7,2		33.0
+4			7,3	42.8	"			5,2		35.0
bh			7,7	42.4	b			5,2		35.0
b			7,6	42.5	"			5,3		34.9
"			7,5	42.6	bh			3,4		36.8
bh			7,9	42.2	NL			1,0		39.2
SL			8,7	41.4		300' E = WL Santa Cruz St				
	200' E of Pacific				NL			4,6		35.6
NL			9,0	41.1	bh			6,5		33.7
bb			9,7	40.4	"			8,5		31.7
+4			10,0	40.1	b			8,7		31.5
+4			11,6	38.5	"			8,7		31.5
"			11,6	38.5	bh			10,5		29.7
b			11,4	38.7	SL			11,2		29.0
"			11,6	38.5	TP	1,79	30,06	11.84	28.37	BM
bh			12,7	37.4						
SL			13,7	36.4						

3006

E of Santa Cruz st

N2	1.7	28.4	
blk	2.0	28.1	
4	2,5	27.6	
6	2,3	27.8	
4	2,7	27.4	
blk	3,2	26.8	
S2	3,4	26.7	

50' E of Santa Cruz st

S2	4,3	25.8	
blk	4.3	25.8	
4	4,1	26.0	
6	3,7	26.4	
4	4,2	25.9	
blk	3,7	26.4	
N2	2,3	27.8	

3006

100' E of Santa Cruz st

N2	4,6	25.5	
blk	4,7	25.4	
4	5,2	24.9	
6	4,6	25.5	
4	4,8	25.3	
blk	4,6	25.5	
S2	4,7	25.4	

140' E of Santa Cruz st

S2	5,0	25.1	
blk	5,0	25.1	
4	5,3	24.8	
6	4,6	25.5	
4	5,0	25.1	
blk	4,6	25.5	
N2	4,6	25.5	

3006

160' E of Santa Cruz St

NL			5.2		24.9
Cb			5.2		24.9
y			5.4		24.7
b			4.7		25.4
y			5.1		25.0
Cb			5.0		25.1
SL			4.8		25.3

200' E of Santa Cruz St

SL			4.8		25.3
Cb			5.0		25.1
y			5.3		24.8
b			4.7		25.4
y			5.4		24.7
Cb			5.0		25.1
NL			5.0		25.1

3006

250' E of Santa Cruz St

NL			5.1		25.0
Cb			5.2		24.9
y			5.5		24.6
b			4.6		25.5
y			5.3		24.8
Cb			5.0		25.1
SL			4.6		25.5

300' E = W Line of Del Monte St

SL			5.0		25.1
Cb			5.0		25.1
y			5.3		24.8
b			4.6		25.5
y			5.0		25.1
Cb			4.5		25.6
NL			5.0		25.1
TP	4.04	29.24	4.86	25.20	NW Line Del Monte & Balcom

2924

W Cl of Del Monte st (80')

N2	3,9	25.3
bh	4,0	25.2
4	4,4	24.8
b	4,0	25.2
4	4,4	24.8
bh	4,2	25.0
S2	4,1	25.1

W 1/4 of Del Monte st

S2	4,0	25.2
bh	4,1	25.1
4	4,5-	24.7
b	4,1	25.1
4	4,5-	24.7
bh	3,9	25.3
N2	3,9	25.3

2924

Center of Del Monte st

N2	4,0	25.2
bh	4,0	25.2
4	4,2	25.0
b	4,0	25.2
4	4,4	24.8
bh	4,2	25.0
S2	4,1	25.1

E 1/4 of Del Monte st

S2	4,5	24.7
bh	4,1	25.1
4	4,5-	24.7
b	4,0	25.2
4	4,1	25.1
bh	3,8	25.4
N2	4,0	25.2

29.24

	E bb of Del Monte st				
NS			3,8		25.4
bb			3,9		25.3
"			4,3		24.9
b			3,8		25.4
"			4,6		24.6
bb			4,2		25.0
SS			4,2		25.0
	E Line of Del Monte st				
SS			4,4		24.8
bb			4,4		24.8
"			4,6		24.6
b			3,9		25.3
"			4,2		25.0
bb			3,7		25.5
NS			3,9		25.3

TP	2.97	28.17	4.04	25.20	~~B.M.~~
	50'	E of	Del Monte st		
NS			3,1		25.1
bb			3,3		24.9
"			3,7		24.5
b			3,3		24.9
"			3,8		24.4
bb			3,9		24.3
SS			3,9		24.3
	100'	E of Del Monte st			
SS			4,5		23.7
bb			4,5		23.7
"			4,5		23.7
b			4,0		24.2
"			4,6		23.6
bb			4,2		24.0
NS			4,0		24.2

2817

140' E of Del Monte st

N2		4,6	23.6
bk		4,8	23.4
y		5,3	22.9
b		4,7	23.5
y		5,2	23.2
bk		5,5	22.7
S2		5,6	22.6

160' E of Del Monte st

S2		5,6	22.6
bk		5,7	22.5
y		5,8	22.4
b		5,3	22.9
y		5,4	22.8
bk		5,2	23.0
N2		4,8	23.4

2817

200' E of Del Monte st

N2		5,8	22.4
bk		5,9	22.3
y		6,5	21.7
b		5,9	22.3
y		6,5	21.7
bk		6,7	21.5
S2		6,6	21.6

250 E of Del Monte st

S2		7,0	21.2
bk		7,4	20.8
y		7,6	20.6
b		6,9	21.3
y		7,0	21.2
bk		6,4	21.8
N2		6,6	21.6
N2			

28.17

	300' E = W S of Narragansett				
NS			6,8		21.4
Cb			7,0		21.2
4			7,4		20.8
b			7,1		21.1
4			7,9		20.3
Cb			7,7		20.5
SL			8,0		20.2
TP	2.44	23.02	7.60	20.58 / 20.57	BM
	E Line of Narragansett 20 (8 ft)				
SL			3,5		19.5
Cb			3,3		19.7
4			3,4		19.6
b			2,6		20.4
4			2,9		20.1
Cb			2,5		20.5
NS			2,4		20.6

23.02

	50' E of Narragansett				
NS			2,8		20.2
Cb			3,0		20.0
4			3,7		19.3
b			3,2		19.8
4			3,8		19.2
Cb			4,0		19.0
SL			3,8		19.2
	100' E of Narragansett				
SL			4,5		18.5
Cb			4,5		18.5
4			4,7		18.3
b			4,0		19.0
4			4,2		18.8
Cb			3,9		19.1
NS			3,6		19.4

2302

	140' E of Nar —				
NS			4,6		18.4
bb			4,7		18.3
4			5,4		17.6
b			4,9		18.1
4			5,2		17.8
bb			4,8		18.2
SS			4,8		18.2
	160' E of Nar —				
SS			5,5		17.5
bb			5,4		17.6
4			5,9		17.1
b			5,3		17.7
4			5,7		17.3
bb			5,4		17.6
NS			5,3		17.7

2302

	200' E of Nar —				
NS			6,0		17.0
bb			6,3		16.7
4			6,8		16.2
b			6,3		16.7
4			6,5		16.5
bb			6,5		16.5
SS			6,1		16.9
	250' E of Nar —				
SS			7,2		15.8
bb			7,4		15.6
4			7,9		15.1
b			7,4		15.6
4			7,8		15.2
bb			7,6		15.4
NS			7,5		15.5

2302

300' E = W2 Niagara (80')

N2	9.0	14.0
bb	8.8	14.2
4	8.7	14.3
6	8.1	14.9
4	8.3	14.7
bb	7.8	15.2
S2	7.8	15.2

W bb of Niagara

S2	8.0	15.0
bb	8.5	14.5
4	8.5	14.5
6	8.3	14.7
4	9.1	13.9
bb	9.0	14.0
N2	9.1	13.9

2302

W ½ of Niagara

N2	9.6	13.4
bb	9.4	13.6
4	9.0	14.0
6	8.4	14.6
4	8.6	14.4
bb	8.3	14.7
S2	8.0	15.0

Center of Niagara

S2	8.3	14.7
bb	8.5	14.5
4	8.4	14.6
6	8.6	14.4
4	9.3	13.7
bb	9.6	13.4
N2	9.9	13.1

2302

E ¼ of Mayara

NL			10,0		13.0
bb			9,5		13.5
4			9,4		13.6
b			8,8		14.2
4			8,8		14.2
bb			8,7		14.3
SL			8,6		14.4

E bb of Mayara

SL			8,6		14.4
			8,8		14.2
			9,3		13.7
			9,0		14.0
			9,4		13.6
			9,6		13.4
			10,2		12.8

2302

E Lin of Mayara

NL			10,3		12.7
bb			9,6		13.4
4			9,7		13.3
b			9,1		13.9
4			9,3		13.7
bb			9,0		14.0
SL			8,8		14.2
TP	5,58	18,30	10,30	12,72	Bm NEH Mayara 1st

50' E of Mayara

SL			4,1		14.2
bb			4,4		13.9
4			5,1		13.2
b			4,9		13.4
4			5,4		12.9
bb			5,7		12.6
NL			5,9		12.4

1830

100' E of Niagara

Sd		6.2	12.1
bk		6.0	12.3
4		5.6	12.7
6		5.4	12.9
4		5.3	13.0
bk		4.8	13.5
Sd		4.7	13.6

140' E of Niagara

Sd			
Sd		4.8	13.5
bk		5.2	13.1
4		5.6	12.7
6		5.6	12.7
4		6.5	11.8
bk		6.3	12.0
Sd		6.7	11.6

1830

160' E of Niagara

Sd		6.4	11.9
bk		6.2	12.1
4		5.8	12.5
6		5.7	12.6
4		5.7	12.6
bk		5.1	13.2
Sd		4.9	13.4

200' E of Niagara

Sd			
Sd		5.0	13.3
bk		5.4	12.9
4		6.2	12.1
6		5.7	12.6
4		5.7	12.4
bk		6.2	12.1
Sd		6.4	11.9

1830

250' E of Mayora

NL			6,6		11.7
bh			6,5		11.8
"			6,9		11.4
b			6,3		12.0
"			6,0		12.3
bh			5,7		12.6
SL			5,0		13.3

300' E = WL of Newport

SL			5,8		12.5
bh			6,0		12.3
"			6,2		12.1
b			6,2		12.1
"			6,6		11.7
bh			6,6		11.7
NL			7,0		11.3

1830

W bh of Newport (80')

NL			7,0		11.3
bh			6,5		11.8
"			6,5		11.8
b			6,3		12.0
"			6,5		11.8
bh			5,8		12.5
SL			5,7		12.6

W 1/4 of Newport st

SL			6,0		12.3
bh			6,3		12.0
"			6,3		12.0
b			6,6		11.7
"			7,0		11.3
bh			7,1		11.2
NL			7,2		11.1

1830

Center of Newport st

NL			7,0		11.3
Ch			6,8		11.5
"			6,5		11.8
C			6,5		11.8
"			6,6		11.7
Ch			6,5		11.8
SL			6,6		11.7

E 1/4 of Newport st

SL			6,1		12.2
Ch			6,2		12.1
"			6,5		11.8
C			6,1		12.2
"			6,5		11.8
Ch			6,2		12.1
NL			6,4		11.9

1830

E Ch of Newport st

NL			6,8		11.5
Ch			6,5		11.8
"			6,6		11.7
C			6,2		12.1
"			6,4		11.9
Ch			6,0		12.3
SL			6,2		12.1

E Line of Newport st

SL			6,2		12.1
			6,3		12.0
			6,7		11.6
			6,3		12.0
			6,6		11.7
			7,0		11.3
			6,9		11.4
TP	331	16,35	526	13,04	

		1635			
	50'	E of	Newport st		
NL			5,2		11.2
Cb			4,9		11.5
4			5,0		11.4
6			4,7		11.7
4			5,1		11.3
Cb			4,7		11.7
SL			4,5		11.9
	100'	E of	Newport		
SL			5,1		11.3
Cb			4,8		11.6
4			5,5		10.9
6			5,0		11.4
4			5,1		11.3
Cb			5,1		11.3
NL			5,4		11.0

		1635			
	140'	E of	Newport		
NL			5,9		10.5
Cb			5,2		11.2
4			5,6		10.8
6			5,1		11.3
4			5,3		11.1
Cb			5,0		11.4
SL			5,0		11.4
	160'	E of	Newport		
SL			5,3		11.1
Cb			5,4		11.0
4			5,9		10.5
6			5,4		11.0
4			5,8		10.6
Cb			5,9		10.5
NL			5,7		10.7

POSTED

1635-

200' E of Newport

2 L		5.5	10.9
bk		5.7	10.7
4		6.1	10.3
6		5.7	10.7
4		6.2	10.2
bk		5.9	10.5
2 L		5.4	11.0

250' E of Newport

2 L		6.0	10.4
bk		6.1	10.3
4		6.6	9.8
6		6.0	10.4
4		5.5	10.9
bk		6.3	10.1
2 L		6.2	10.2

1635-

300' E of W L Santa Monica

2 L		6.6	9.8
bk		6.5	9.9
4		6.9	9.5
6		6.2	10.2
4		6.2	10.2
bk		5.9	10.5
2 L		6.4	10.0

Crossection of Mayura St (80'
POSTED Beach to 6th st

BM	2,23	22,80		20,58	NE Hub [illegible]
TP	6,51	28,65	0,67	22,14	
	565	N of Bacon St.			
WL Bank			4,0		24.7
	550'	N of Bacon			
WL			3,9		24.7
bb			4,1		24.5
4			4,1		24.5
b			3,7		24.9
4			3,6		25.0
bb			3,5		25.1
EL Bank			4,0		24.6
	500'	N of Bacon St			
EL			2,8		25.8
bb			3,9		24.7
4			4,1		24.5
b			4,0		24.6

		28,65			
4			3,8		24.8
bb			3,4		25.2
WL			3,6		25.0
	450'	N of Bacon St			
WL			4,2		24.4
bb			4,3		24.3
4			4,6		24.0
b			4,8		23.8
4			5,0		23.6
bb			5,0		23.6
EL			4,0		24.6
	400	N of Bacon St			
EL			7,0		21.6
bb			6,6		22.0
4			6,4		22.2
b			6,3		22.3
4			6,3		22.3
bb			5,4		23.2
WL			5,4		23.2

4865-

350' N of Bacon St

WL	7,3	21.3	
bb	7,2	21.4	
4	7,5-	21.1	
b	8,2	20.4	
4	8,7	19.9	
bb	9,3	19.3	
EL	10.0	18.6	

TP 331 2030 11.66 16.99

300' N of Bacon St

EL	4,3	16.0	
bb	3,5-	16.8	
4	2,7	17.6	
b	2,6	17.7	
4	2,3	18.0	
bb	2,1	18.2	
WL	2,0	18.3	

2030

250' N of Bacon St

WL	4,2	16.1	
bb	4,5-	15.8	
4	4,8	15.8	
b	5,3	15.0	
4	5,6	14.7	
bb	6,1	14.2	
EL	6,7	13.6	

200' N of Bacon

EL	7,2	13.1	
bb	7,1	13.2	
4	6,9	13.4	
b	6,7	13.6	
4	6,2	14.1	
bb	5,9	14.4	
WL	5,6	14.7	

		2030			
	150' N of Bacon st				
WL			6.4		13.9
Cb			6.9		13.4
"			7.0		13.3
C			7.5		12.8
"			7.7		12.6
Cb			7.7		12.6
EL			8.1		12.2
	100' N of Bacon				
EL			8.2		12.1
Cb			8.2		12.1
"			7.8		12.5
C			7.8		12.5
"			7.4		12.9
Cb			7.2		13.1
WL			6.8		13.5

		2030			
	50' N of Bacon st				
WL			6.9		13.4
			7.2		13.1
			7.4		12.9
			7.8		12.5
			7.7		12.6
			7.8		12.5
EL			7.9		12.4
	N Line of Bacon st (60')				
EL			7.6		12.7
			7.5		12.8
			7.3		13.0
			7.2		13.1
			6.9		13.4
			6.3		14.0
WL			6.3		14.0
TP	908	21.80	7.60	1272 1270 ✓	

2180

5 Lin of Bacon St

WL		6.6	15.2
bb		6.7	15.1
4		6.7	15.1
6		7.1	14.7
4		7.2	14.6
bb		7.4	14.4
E2		7.6	14.2

50' S of Bacon

E2		6.7	15.1
bb		6.6	15.2
4		6.5-	15.3
6		6.6	15.2
4		6.4	15.4
bb		6.3	15.5
WL		6.2	15.6

2180

100' S of Bacon St

WL		5.8	16.0
bb		5.9	15.9
4		5.7	16.1
6		5.8	16.0
4		6.0	15.8
bb		6.2	15.6
E2		6.1	15.7

150' S of Bacon St

E2		6.0	15.8
bb		5.8	16.0
4		5.5-	16.3
6		5.5-	16.3
4		5.4	16.4
bb		5.4	16.4
WL		5.4	16.4

21.80

	200'	Sob	Bacon st	
Wh			5,0	16.8
bh			5,0	16.8
4			5,0	16.8
b			5,1	16.7
4			5,2	16.6
bh			5,4	16.4
E2			5,6	16.2
	250'	Sob	Bacon st	
E2			5,5	16.3
bh			5,3	16.5
4			5,1	16.7
b			5,1	16.7
4			4,8	17.0
bh			4,8	17.0
Wh			4,7	17.1

21.80

	300	Sob	Bacon st	
Wh			4,4	17.4
bh			4,6	17.2
4			4,7	17.1
b			4,8	17.0
4			4,9	16.9
bh			5,1	16.7
E2			5,3	16.5
	350	Sob	Bacon st	
E2			5,2	16.6
bh			4,8	17.0
4			4,7	17.1
b			4,5	17.3
4			4,7	17.1
bh			4,5	17.3
Wh			4,3	17.5

		21.80			
	400' S of Bacon st				
WL			4,0		17.8
bh			4,0		17.8
y			4,2		17.6
b			4,3		17.5
y			4,4		17.4
bh			4,3		17.5
EL			4,6		17.2
	450' S of Bacon st				
EL			4,5		17.3
bh			4,0		17.8
y			4,2		17.6
b			4,2		17.6
y			4,0		17.8
bh			3,8		18.0
WL			3.4		18.4

		21.80			
	500' S of Bacon st				
WL			3,2		18.6
bh			3,3		18.5
y			3,5		18.3
b			3,5		18.3
y			3,9		17.9
bh			4,0		17.8
EL			4,2		17.6
TP	8.63	26.41	4.02	17.78	
	550' S of Bacon st				
EL			8,4		18.0
bh			8,1		18.3
y			8,0		18.4
b			7,8		18.6
y			7,9		18.5
bh			7,7		18.7
WL			7,7		18.7

2641

600' S = N S Cable St (60')

WS			7,2		19.2
Cb			7,2		19.2
4			7,3		19.1
6			7,5		18.9
4			7,6		18.8
Cb			7.7		18.7
ES			7.7		18.7

N Cb of Cable St (3d)

ES			7,7		18.7
Cb			7,6		18.8
4			7,4		19.0
6			7,5		18.9
4			7,3		19.1
Cb			7,2		19.2
WS			7,0		19.4

2641

N 1/4 of Cable St

WS			7,1		19.3
Cb			7,2		19.2
4			7,3		19.1
6			7,5		18.9
4			7,3		19.1
Cb			7,5		18.9
ES			7,6		18.8

Center of Cable

ES			7,7		18.7
Cb			7,5		18.9
4			7,4		19.0
6			7,5		18.9
4			7,3		19.1
Cb			7,1		19.3
WS			7,0		19.4

2641

S 1/4 of Cobb St

WL	6.5	19.9
bb	6.4	20.0
4	6.8	19.6
b	7.3	19.1
4	7.2	19.2
bb	7.4	19.0
EL	7.2	18.8

S bb of Bacon St

EL	7.3	19.1
bb	7.2	19.2
4	7.0	19.4
b	7.0	19.4
4	7.0	19.4
bb	6.3	20.1
WL	6.2	20.2

2641

S Line of Cobb St

WL	6.6	19.8
bb	6.6	19.8
4	6.8	19.6
b	7.0	19.4
4	6.9	19.5
bb	6.9	19.5
EL	7.2	19.2

50' S of Cobb St

EL	6.5	19.9
bb	6.5	19.9
4	6.5	19.9
b	6.5	19.9
4	5.7	20.7
bb	5.7	20.7
WL	5.4	21.0

2641

	100'	S of	Cable st		
WL			5,3		21.2
Cb			5,2		21.2
4			5,3		21.1
b			5,7		20.7
4			5,2		21.2
Cb			5,7		20.7
EL			6,0		20.4
	130'	S of	Cable st		
EL			5,4		21.0
Cb			5,3		21.1
4			5,0		21.4
b			5,0		21.4
4			4,7		21.7
Cb			4,4		22.0
WL			4,4		22.0

2641

	200'	S of	Cable st		
WL			4,2		22.2
Cb			4,3		22.1
4			4,4		22.0
b			4,6		21.8
4			4,5		21.9
Cb			4,0		22.4
EL			4,2		22.2
	250'	S of	Baca		
EL			3,8		22.6
Cb			3,9		22.5
4			3,9		22.5
b			3,6		22.8
4			3,6		22.8
Cb			3,6		22.8
WL			3,6		22.8

2641

	300'	S of	Bacon st		
WL			3,8		22.6
bb			2,8		23.6
4			3,1		23.3
b			3,3		23.1
4			3,1		23.3
bb			3,1		23.3
WL			3,3		23.1
7P	~~350'~~ 5,57	30.06	19.2	24.49	
	350'	S of	Cobb st		
EL			6,4		23.7
bb			6,1		24.0
4			5,9		24.2
b			6,3		23.8
4			6,0		23.1
bb			6,0		23.1
WL			6,0		23.1

3006

	400'	S of	Cobb st		
WL			5,3		24.8
bb			5,6		24.5
4			5,4		24.7
b			5,7		24.4
4			5,9		24.2
bb			5,6		24.5
EL			5,9		24.2
	450'	S of	Cobb st		
EL			5,4		24.7
bb			5,0		25.1
4			5,2		24.9
b			5,3		24.8
4			5,0		25.1
bb			4,9		25.2
WL			5,0		25.1

		30.06			
	500' S of Cable St				
WL			4,3		25.8
Cb			4,3		25.8
4			4,5		25.6
b			4,6		25.5
Cb			4,8		25.3
Cb			4,7		25.4
EL			4,6		25.5
	550' S of Cable St				
EL			4,2		25.9
Cb			4,2		25.9
4			4,0		26.1
b			4,1		26.0
4			4,0		26.1
Cb			3,8		26.3
WL	6.57		3,7		26.4

		30.06			
	600' S = N Line of De Tar St				
WL			2,8		27.3
Cb			3,0		26.1
4			3,1		26.1
b			3,3		26.8
4			3,0		27.1
Cb			3,4		26.7
EL			3,6		26.5
TP	6.57	33.02	3.61	26.45	BM NE Hub Magnum + 4"
	N Cb of De Tar St (60')				
EL			6,2		26.8
Cb			6,7		26.3
4			6,0		27.0
b			6,0		27.0
4			5,8		27.2
Cb			5,9		27.1
WL			5,8		27.2

3302

N ¼ of Section 21

WL	5.5	27.5	
bb	5.6	27.4	
4	5.6	27.4	
6	5.8	27.2	
4	5.9	27.1	
bb	6.1	26.9	
EL	6.1	26.9	

Center of Section 21

EL	6.0	27.0	
bb	5.8	27.2	
4	5.6	27.4	
6	5.7	27.3	
4	5.5	27.5	
bb	5.6	27.4	
WL	5.7	27.3	

3302

S ½ of Section 21

WL	5.2	26.8	
bb	5.1	27.9	
4	5.4	27.6	
6	5.5	27.5	
4	5.5	27.5	
bb	5.8	27.2	
EL	5.9	27.1	

S bb of Section 21

EL	5.8	27.2	
6	5.7	27.3	
4	5.4	27.6	
6	5.4	27.6	
4	5.2	27.8	
bb	5.1	27.9	
WL	5.0	28.0	

33.02

S Line of De Forest St

WL			4,9	28.1
bk			5,0	28.0
4			5,2	27.8
6			5,3	27.7
4			5,4	27.6
bk			5,5	27.5
EL			5,6	27.4
BM	873	35.18		26.45

50' S of De Forest St

EL			6,5	28.7
bk			6,9	28.3
4			6,7	28.5
6			6,7	28.5
4			6,6	28.6
bk			6,3	28.9
WL			6,3	28.9

35.18

100' S of De Forest St

WL			5,5	29.7
bk			5,6	29.6
4			5,5	29.7
6			5,9	29.3
4			6,1	29.1
bk			6.1	29.1
EL			6,1	29.1

150' S of De Forest St

EL			5,4	29.8
bk			5,3	29.9
4			5,2	30.0
6			5,2	30.0
4			4,9	30.3
bk			4,7	30.5
WL			4,7	30.5

35-18

200 S of De Tar St

WL		3.8	31.4
Ct		4.0	31.2
4		4.1	31.1
6		4.4	30.8
4		4.3	30.9
Ct		4.5	30.7
EL		4.3	309

250 S of De Tar St

EL		3.8	31.4
Ct		3.6	31.6
4		3.7	31.5
6		3.7	31.5
4		3.4	31.8
Ct		3.4	31.8
WL		3.1	32.1

35-18

300 S of De Tar St

WL			3.0	
Ct			3.1	
4			3.3	
6			3.7	
4			3.7	
Ct			3.7	
EL			3.8	

300 S of De Tar St

EL			2.6	32.6
Ct			2.7	32.5
4			2.8	32.4
6			2.7	32.5
4			2.5	32.7
Ct			2.5	32.7
WL			2.5	32.9
TP	10.10	4.03	2.95	32.93

		43.03			
	350'	S of	De Foe St		
WL			9,1		33.9
bb			9,2		33.8
4			9,2		33.8
b			9,4		33.6
4			9,3		33.7
bb			9,4		33.6
EL			9,7		33.3
	400'	S of	De Foe St		
EL			8,6		34.4
bb			8,6		34.4
4			8,7		34.3
b			8,5		34.5
4			8,5		34.5
bb			8,5		34.5
WL			8,4		34.6

		43.03			
	450'	S of	De Foe St		
WL			6,1		36.9
bb			6,1		36.9
4			6,0		37.0
b			5,7		37.3
4			5,8		37.2
bb			6,5		36.5
EL			6,6		36.6
	500'	S of	De Foe St.		
EL			3,3		39.7
bb			3,2		39.8
4			3,3		39.7
b			2,9		40.1
4			2,7		40.3
bb			2,6		40.4
WL			2,6		40.4
TP	11,40	53,82	0.61	42,42	

		53.82			
	550' S of De Foe St				
WL			8,7		45.1
Ch			8,9		44.9
4			8,8		45.0
C			9,4		44.4
4			9,6		44.2
Ch			9,8		44.0
EL			10,0		43.8
	600' S = N L Eber St (60')				
EL			5,0		48.8
Ch			4,7		49.1
4			4,0		49.8
C			3,3		50.5
4			3,0		50.8
Ch			2,8		51.0
WL			2,8		51.0
T P	9,75	63,37	0,20	53,62	

		63.37			
	N Ch of Eber St				
WL			10,5		52.9
Ch			10,7		52.7
4			11,4		52.0
C			12,0		51.4
4			12,2		51.2
Ch			12,6		50.8
EL			13,3		50.1
	N 1/4 of Eber St				
EL			12,4		51.0
Ch			11,6		51.8
4			11,0		52.4
C			10,6		52.8
4			9,9		53.5
Ch			9,5		53.9
WL			9,6		53.8

6337

Center of Eber st

Wh			6,9		56.5
bb			6,8		56.6
y			7,0		57.4
l			8,6		55.8
y			9,9		53.5
bb			10,5		52.9
Ed			11,3		52.1

S 1/4 of Eber st

Ed			10,0		53.4
bb			9,0		54.4
y			8,2		55.2
l			6,8		56.6
y			5,3		58.1
bb			4,8		58.6
Wh			5,0		58.4

6337

S bb of Eber st

Wh			4,5		58.9
bb			4,6		58.8
y			4,9		58.5
l			6,2		57.2
y			7,2		56.2
bb			7,6		55.6
Ed			8,7		54.7

S Line of Eber st

Ed			7,4		56.0
			7,0		56.4
			6,6		55.8
			5,9		57.5
			4,8		58.6
			4,7		58.7
			4,0		59.4
TP	12,12	71,61	3,88	59,49	SW [illegible] [illegible]

		71.61			
	50'	S of	Eber St		
WR			5,2		66.4
bb			5,7		65.9
4			5,5		66.1
6			5,6		66.0
4			6,3		65.3
bb			6,3		64.3
E2			7,2		64.4
TP	1,39	8,98	2,02	69,59	
	100'	S of	Eber St		
E2			7,5		74.5
bb			7,0		75.0
4			7,0		75.0
6			6,6		75.4
4			6,3		75.7
bb			6,2		75.8
WR			5,8		76.2
TP	1,03	9,76	1,25	80,73	

		92.76			
	150'	S of	Eber St		
WR			7,3		85.5
bb			8,3		84.5
4			8,8		84.0
6			9,2		83.6
4			9,1		83.7
bb			9,5		83.3
E2			10.1		82.7
	200'	S of	Eber St		
E2			2,7		90.1
bb			2,2		90.6
4			2,0		90.8
6			1,7		91.1
4			1,3		91.5
TP	1,33	10,87	1,22	91,54	
bb			1,2		92.7
WR			10,8		93.1

		103.87			
	250'	S of	Eber St		
WL			3,1		100.8
bh			3,7		100.2
"			4.6		99.3
b			5,6		98.3
"			6.1		97.8
bh			6,9		97.0
EL			7,9		96.0
	300'	S of	Eber St		
EL			4,2		99.7
bh			2,9		101.0
"			2,3		101.6
b			1,0		102.9
"			0.0		103.9
TP	12.71	115.57	1.07	102.80	
bh			11.0		104.5
WL			10,0		105.5

		115.51			
	350'	S of	Eber St		
WL			6,2		109.3
bh			7,4		108.1
"			7,9		107.6
b			9,7		105.8
"			10,8		104.7
bh			10,9		104.6
EL			13.0		102.5
	400'	S of	Eber St		
EL			8,3		107.2
bh			7,6		107.9
"			6,6		108.9
b			5,5		110.0
"			4,5		111.0
bh			3,6		111.9
WL			2,2		113.3
TP	11,18	124.32	2.37	113.14	

12432

	450'	S of	Elev		
WL			5.6		118.7
bk			6.6		117.7
4			8.0		116.3
6			9.0		115.3
4			9.6		114.7
bk			10.2		114.1
EL			11.2		113.1
	500'	S of	Elev		
EL			5.0		119.3
bk			4.3		120.0
WL			3.6		120.7
6			2.9		121.4
4			2.0		122.3
bk			0.5		123.8
TP	11.6	135-32	0.6	12320	
WL			9.6		125.7

13532

	545'	S of	Elev	Lt	
EL			10.9		124.4
Ebk			18.4		116.9
bk			10.7		124.6
bk			13.7		121.6
14			10.5		123.8
	550'	S of	Elev	Lt	
EL			17.8		117.5
bk			14.0		121.3
TP			9.8		125.5
14			8.6		126.7
6			7.5		127.8
4			6.0		129.3
bk			2.8		132.5
WL			0.3		135.0

POSTED

135.32

	560'	S of	Eber		
EL			9.1		126.2
bl			8,8		126.5
y			9,0		126.3
b			9,6		125.7
y			7,3		128.0
bl			4.5		130.8
WL			0,0		135.0
	580'	S of	Eber		
WL			5,7		129.2
bl			6,7		128.2
y			7,0		128.3
b			8,0		127.3

135.32

	600'	S of	Eber	St	
NS			3,4.		131.9
bl			4,5		130.8
y			6,4		128.9
b			4,3		131.0
y			2,8		132.5
TP	11,09	145.24	1.17		
bl			7.0		138.2
S.S.			8,0		137.2
TP	738 3.52		1.78 5.72		✓ OK

Center is w/ 10' higher

POSTED

X. sect. Meade ave.
Park Boul. to Georgia

H.I.
727 347.35 340.09 BM.

West line Georgia

N. line	1.6	345.8
	1.8	345.6
	2.5	344.9
C	2.3	345.1
	2.8	344.6
	2.8	344.6
So. line	2.6	344.8

25' W

So. line	2.7	344.7
	2.7	344.7
	2.8	344.6
C	2.5	344.9
	2.8	344.6
	2.5	344.9
N line	2.4	345.0

50' W

N line	1.6	345.8
	0.9	346.5
C 6 + 8' + 11'	1.2	346.2
	2.8	344.6
	2.9	344.5
C	2.6	344.8
	2.9	344.5
	2.8	344.6
So line	2.6	344.8

75' W

So line	2.6	344.8
	2.7	344.7
	2.9	344.5
C	2.6	344.8
	3.1	344.3
	2.1	345.3
N line	2.0	345.4

347.35

100' W

N line	2.9	344.5
	3.1	344.3
	3.1	344.3
C	2.7	344.7
	3.0	344.4
	2.8	344.6
So line	2.9	344.5

125' W

So. line	2.9	344.5
	2.9	344.5
	3.2	344.2
C	2.9	344.5
	8.1	344.3
	2.1	345.3
N line	2.6	344.8

150' W

N line	2.4	345.0
	2.5	344.9
	2.3	345.1
C	3.1	344.3
	3.5	343.9
	3.5	343.9
So line	3.6	343.8

175' W

So line	2.9	344.5
	3.7	343.7
	3.8	343.6
C	3.2	344.2
	3.5	343.9
	3.7	343.7
N line	3.6	343.8

POSTED

347.35

	200' W		
N line	3.2	344.2	
	3.8	343.6	
	3.9	343.5	
C	3.7	343.7	
	4.0	343.4	
	4.2	343.2	
So. line	3.9	343.5	
	226.85' (E. line Mission ave)		
So. line	4.5'	342.9	
	4.6	342.8	
	4.4	343.0	
C	4.1	343.3	
	4.3	343.1	
	4.1	343.3	
N line	3.6	343.8	

	23.15' W.		
N line	4.3	343.1	
	4.4	343.0	
	4.6	342.8	
C	4.5'	342.9	
	4.9	342.5	
	4.2	343.2	
So line	4.9	342.5	
	48.15' W		
So line	4.7	342.7	
	4.7	342.7	
	5.1	342.3	
C	4.8	342.6	
	5.2	342.2	
	4.7	342.7	
N line	4.5'	342.9	

347.35

73. N. W. (E line Park Boulevard)

n line			5.2	342.2	n line		5.5	341.9
			5.4	342.0			5.6	341.8
			5.3	342.1			5.4	342.0
c			5.2	342.2	c		5.6	341.8
			5.4	342.0			5.7	341.7
			5.7	341.7			6.0	341.4
s line			5.9	341.5	s line		6.1	341.3
	c, eb,					Center		
s line			5.6	341.8	s line		5.1	342.3
			5.8	341.6			5.0	342.4
			5.7	341.7			5.1	342.3
c			5.7	341.7	c		5.1	342.3
			5.7	341.7			5.0	342.4
			5.7	341.7			5.0	342.4
n line			5.7	341.7	n line		4.9	342.5

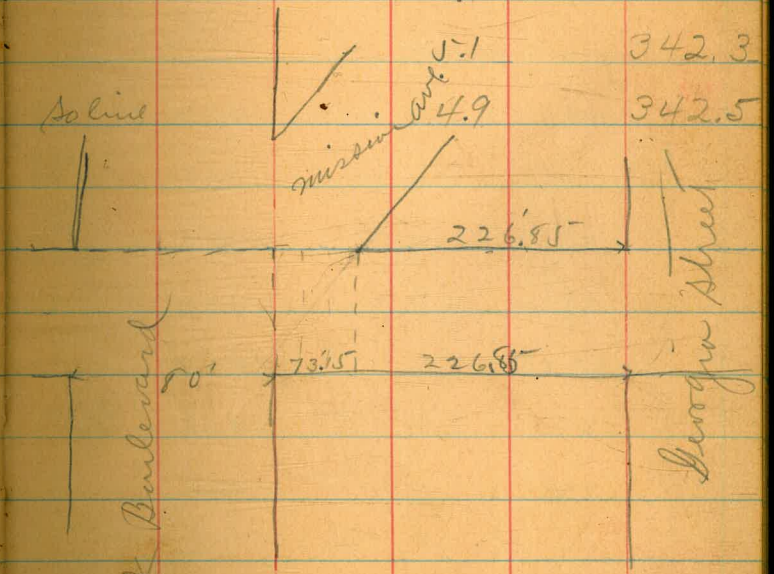
E ¼

W 1/4

N line		5.2	342.2
		5.2	342.2
		5.2	342.2
C		5.1	342.3
		5.2	342.2
		5.3	342.1
S line		5.3	342.1
	W. C6		
S line		5.3	342.1
		5.3	342.1
		5.4	342.0
C		5.3	342.1
		5.3	342.1
		5.6	341.8
N line		5.1	342.3

West line Park Boulevard

N line		4.8	342.6
		5.0	342.4
	POSTED	5.2	342.2
C		4.8	342.6
		4.9	342.5
		5.1	342.3
S line		4.9	342.5



Sections 31st St.
from N L G to S L I
omitting Intersection of H. st.

12/26/07 Hatch, Williams, Emery

142.45

BM	12.56	93.80		81.24	3 nails in base board of Fence, SW Cor 32d - G.
TP	12.46	106.26	0.0	93.80	
TP	13.00	119.12	0.14	106.12	
TP	12.76	131.45	0.43	118.69	
TP	12.57	142.45	1.57	129.88	
	N L G St.				
E			3.07	139.38	NE Hub
cb			2.8	139.7	
1/4			2.8	139.7	
cr			2.3	140.2	
1/4			1.8	140.7	
cb			1.7	140.8	
W			1.7	140.8	
	N cb. G.				
W			2.2	140.3	
cb			2.5	140.0	
1/4			2.9	139.6	

POSTED

C			3.2	139.3
1/4			3.5	139.0
cb			3.8	138.7
E			4.4	138.1
	N 1/4 G			
E			5.3	137.2
cb			4.5	138.0
1/4			4.5	138.0
C			3.9	138.6
1/4			3.7	138.8
cb			3.7	138.8
W			3.8	138.8
	cb G.			
W			4.8	137.7
cb			4.6	137.9
1/4			4.6	137.9

142.45

Cr	4.8	137.7
1/a	5.4	137.1
ab	5.8	136.7
E	6.1	136.4

S 1/4 G

E	7.3	135.2
ab	7.1	135.4
1/4	6.4	136.1
C	6.0	136.5
1/a	5.8	136.7
ab	5.7	136.8
VV	5.6	136.9

S ab G

VV	7.4	135.1
ab	6.9	135.6
1/4	7.1	135.4
C	7.3	135.2

142.45

1/a	7.8	134.7
ab	8.3	134.2
E	8.6	133.9

S L G

E	10.2	132.3
ab	9.9	132.6
1/4	9.3	133.2
C	9.2	133.3
1/a	8.9	133.6
ab	8.9	133.6
VV	9.4	133.1

25' S of G.

VV	14.3	128.2
ab	13.8	128.7
1/4	13.1	129.4
CV	12.6	129.9
1/4	12.4	130.1

		142.15		
Ch.			12.8	129.7
E			13.2	129.3
T.P.	0.20	129.70	12.95	129.50
		50' S of G		
E			4.6	125.1
Ch			4.6	125.1
1/a			4.8	124.9
C			5.2	124.5
1/a			5.2	124.5
Ch			3.9	123.8
W			6.6	123.1
		75' S of G		
W			11.1	118.6
Ch.			10.1	119.6
1/4			9.7	120.0
@			9.5	120.2
1/4			9.1	120.6

		129.70		
Ch.			9.1	120.6
E			8.7	121.0
T.P.	0.30	117.22	12.68	117.02
		100' S of G		
E.			1.3	115.9
Ch			1.5	115.7
1/a			2.1	115.1
C			2.2	115.0
1/a			2.6	114.6
Ch			3.1	114.1
W			3.9	113.3
		125' S of G		
W			6.5	110.7
Ch.			6.4	110.8
1/4			6.5	110.7
C			6.6	110.6
1/4			6.4	110.8

		117.22		
cb			6.2	111.0
E			5,9	111.3
	140' S of G = NL Alley			
E			7,7	109.5
cb			7.9	109.3
1/4			7,8	109.4
C			7,4	109.8
+7			7.7	109.5
1/4			9,2	108.0
+5			8.1	109.1
cb			7,3	109.9
W			6,3	110.9
	160' S of G = SL Alley			
W			6,9	110.3
cb			8.1	109.1
1/4			9,3	107.9
C			10.0	107.2

		117,22		
1/4			10.4	106.8
cb			11.1	106.1
E			12.2	105.0
	175' S of G			
E			10.8	106.4
cb			10.1	107.1
1/4			9,3	107.9
C			8,5	108.7
1/4			7,9	109.3
cb			6,4	110.8
W			4,3	112.9
	200' S of G			
W			2,2	115.0
cb			3.9	113.3
1/4			5.0	112.2
C			6.7	110.5
1/4			8.5	108.7

		117.27		
cb			9.3	107.9
E			10.1	107.1
	225' S of G			
E			10.6	106.6
cb			9.6	107.6
1/4			7.6	109.6
c			5.7	111.5
1/4			4.2	113.0
cb			2.6	114.6
W			0.4	116.8
T.P.	2.71	118.68	1.25	115.97
	250' S of G.			
W			0.3	118.4
cb			2.9	115.8
1/4			4.5	114.2
c			6.5	112.2
1/4			7.8	111.9

		118.68		
cb			9.7	109.0
E			11.7	107.0
	275' S of G			
E			11.3	107.4
cb			9.4	109.3
1/4			7.2	111.5
c			5.3	113.4
1/4			4.1	114.6
cb			2.3	116.4
W			0.3	118.4
	300' S of G = N.L.H.			
W			0.80	117.9 Hub
cb			2.9	115.8
1/4			5.2	113.5
c			7.2	111.5
1/4			8.6	110.1
cb			10.0	108.7

J		~~118.68~~		
E	1.35	108.08	11.95	106.73 Hub.
	52 N.			
E			9.0	99.1
ab			9,0	99.1
1/4			7.3	107.8
c			6,0	102.1
1/4			5.1	103.0
b			3,4	104.7
W			2.2	105.9
	26' S of N.			
W			6,3	101.8
ab			7.1	101.0
1/4			8.1	100.0
c			9.1	99.0
1/4			10,4	97.7
b			10,5	97.6
E			11.2	96.9

		108.08		
	50' S of N.			
E			13.3	94.8
ab			12.4	95.7
1/4			12.1	96.0
c			12.1	96.0
1/4			11,3	96.8
b			10.2	97.9
W			9.7	98.4
	75' S of N.			
W			12.9	95.2
TP	0.10	95.95	12.7	95.51
b			1.7	94.3
1/4			1.9	94.1
c			2.4	93.6
1/4			2,6	93.4
b			3.1	92.9
E			3.4	92.6

95.95

100' S of N.

E	5.2	90.8
alley	5.3	90.7
1/4	5.3	90.7
C	4.8	91.2
1/4	4.6	91.4
alley	3.5	92.5
W	3.4	92.6

125' S of N.

W	5.7	90.3
alley	5.8	90.2
1/4	6.5	89.5
C	6.4	89.6
1/4	6.6	89.4
alley	6.6	89.4
E	6.4	89.6

95.95

140' S of N = N. Alley

E	7.4	88.6
alley	7.5	88.5
1/4	7.5	88.5
C	7.2	88.8
1/4	7.0	89.0
alley	6.8	89.2
W	7.1	88.9

160' S of N. = S. Alley

W	8.3	87.7
alley	7.8	87.2
1/4	8.5	87.5
C	8.6	87.4
1/4	8.6	87.4
alley	8.6	87.4
E	8.8	87.2

95.95

175' Sof H.

E	9.4	86.6
d	9.3	86.7
1/4	9.4	86.6
c	9.6	86.4
1/4	9.4	86.6
d	8.9	87.1
W	8.8	87.2

200' Sof H.

W	10.8	85.2
d	10.8	85.2
1/4	10.9	85.1
c	11.1	84.9
1/4	10.8	85.2
d	10.6	85.4
E	10.5	85.5

95.95

225' Sof H

E	11.5	84.5
d	11.7	84.3
1/4	12.1	83.9
c	12.2	83.8
1/4	12.3	83.7
d	12.5	83.5
W	12.4	83.6

250' Sof H.

W	13.2	82.8
d	13.1	82.9
1/4	13.2	82.8
c	12.7	83.3
1/4	12.7	83.3
d	12.4	83.6
E	12.2	83.8
T.P. 3.16	~~86.87~~ 87.07	12.04	83.91

POSTED

8707
8607

275' S of N.

E	4.1	83.0
cb	4.3	82.8
1/4	4.4	82.7
C	4.5	82.6
1/4	4.6	82.5
cb	4.5	82.6
W	4.8	82.3

300' S of N = N 1/4 I.

W	5.3	81.8
cb	5.0	82.1
1/4	5.1	82.0
C	4.9	82.2
1/4	4.5	82.6
cb	4.4	82.7
E	4.2	82.9

8707
8607

N cb. I

E	4.5	82.6
cb	4.8	82.3
1/4	4.7	82.4
C	4.8	82.3
1/4	4.9	82.2
cb	5.4	81.7
W	5.3	81.8

N 1/4 I

W	5.5	81.6
cb	5.2	81.9
1/4	5.0	82.1
C	5.1	82.0
1/4	5.0	82.1
cb	5.1	82.0
E	4.9	82.2

87.07
~~86.07~~

Or I

E		5.0	82.1
Cb		5.3	81.8
1/4		5.4	81.7
C		5.5	81.6
1/4		5.4	81.7
A		5.5	81.6
W		5.5	81.6

S 1/4 I

W		5.4	81.2
A		5.5	81.6
1/4		5.4	81.7
C		5.4	81.7
1/4		5.5	81.6
Cb		5.6	81.5
E		5.0	82.1

82.07
86.07

S Cb I

E		5.3	81.8
Cb		5.8	81.3
1/4		5.6	81.5
C		5.6	81.5
1/4		5.7	81.4
Cb		5.7	81.4
W		6.1	81.0

SL I

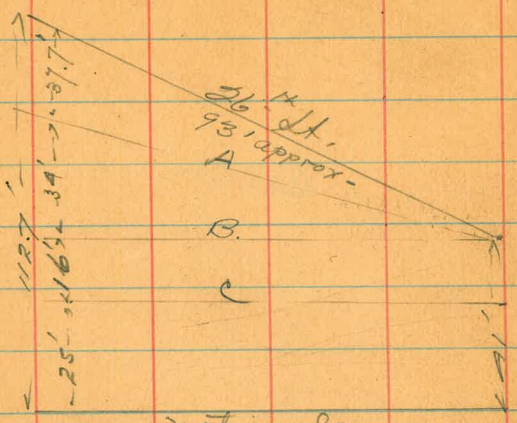
W		6.1	81.0
A		6.0	81.1
1/4		5.9	81.2
C		5.9	81.2
1/4		5.8	81.3
Cb		6.2	80.9
E		5.8	81.3

TP	3.45	~~79.95~~ 78.95	10.57	~~76.50~~ 95.50

		79.95 ~~78.95~~										
BM 30'' - J			3.52	76.43 ~~75.43~~	76.42	Check –						

POSTED

Section Sicard from 26th to S.D. Bay –



National Ave

B.M.	7.31 NE cor	57.29 National	9 y 26th	4998
		WL 26th		
N			3.1	54.2
ch.			3.4	53.9
1/4			3.8	53.5
C			4,2	53.1
1/4			4.7	52.6
ch			5.6	51.7
S			Sidewalk –	

Jan 7/08 {Hatch, Williams, Emery} 57.29

A

W		3.8	53.5
ch		4.2	53.1
1/4	POSTED	4,3	53.0
C		4,4	52.9
1/4		4,6	52.7
ch		5.2	52.1
E		Sidewalk	

B.

W		4,4	52.9
ch		4,7	52.6
1/4		4,8	52.5
C		4,7	52.6
1/4		5,0	52.3
ch.		5.7	51.6

See page 71

57.29

C.

E Ch.			6.3	√1.0
1/a			5.4	√1.9
C			5.0	√2.3
1/a			5.6	√1.7
Ch			4.9	√2.4
W			4.7	√2.6
	N L. National			
W			5.4	√1.9
Ch			6.0	√1.3
1/4			6.5	√0.8
C			6.5	√0.8
1/4			6.4	√0.9
Ch.			7.2	√0.1
T.P	0.27	46.94	10.62	46.67
T.P	4.86	39.80	12.00	34.94

39.80

N Ch. Newton

E.		3.9	35.9
Ch		3.8	36.0
1/a		3.4	36.4
C		2.9	36.8
1/a		2.4	37.4
Ch		2.4	37.4
W		2.5	37.3
N 1/4			
W		36	36.2
Ch		37	36.1
1/a		40	35.8
C		3.9	35.9
1/a		4.3	35.5
Ch		4.2	35.6
E		4.4	35.4

39.80

N.R. NC-O Ry.

E	3.31	36.49
S. Rail is	3.02	36.78

Track is level on N.R. across Sicard St

S/4

W	4.2	35.6
℄	4.6	35.2
1/4	4.4	35.4
C	4.5	35.3
1/4	5.0	34.8
℄	5.1	34.7
E	5.2	346

S ℄.

E	5.2	34.6
℄	5.1	34.7
1/4	4.9	34.9
C	4.6	35.2
1/4	4.7	35.1

39.80

℄	4.6	35.2
W	4.1	35.7

St. Newton

W	4.3	35.5
℄	4.5	35.3
1/4	4.5	35.3
C	4.6	35.2
1/4	5.1	34.7
℄	5.3	34.5
E	5.3	34.5

50 S of Newton

E	6.6	33.2
℄	6.6	33.2
1/4	6.4	33.4
C	6.1	33.7
1/4	6.3	33.5
℄	6.2	33.6

39.80

W	6.2	33.6

160' S of Newton

W	8.0	31.8
℄	7.9	31.9
¼	7.7	32.1
C	7.5	32.3
¼	7.5	32.3
℄	7.3	32.5
E	7.2	32.6

~~40~~ 160' S = Alley

E	8.0	31.8
℄	8.2	31.6
¼	8.5	31.3
C	8.7	31.1
¼	8.7	31.1
℄	8.7	31.1
W	8.9	30.9

39.80

160' S. = Alley

W	9.4	30.4
℄	9.3	30.5
¼	9.2	30.6
C	8.7	31.1
¼	8.5	31.3
℄	8.3	31.5
E	8.3	31.5

200' S of Newton

E	10.2	29.6
℄	9.9	29.9
¼	9.2	30.6
C	9.3	30.5
¼	9.9	29.9
℄	10.2	29.6
W	10.3	29.5

39.80

250' S of Newton

W			11.3	28.5
cb			11.5	28.3
¼			11.5	28.3
C			11.3	28.5
¼			11.1	28.7
cb			11.3	28.5
E			10.6	29.2

300' S. = NL Main St

E			11.1	28.7
cb			11.4	28.4
¼			12.2	27.6
C			12.0	27.8
¼			11.8	28.0
cb			12.0	27.8
W			11.8	28.0
T.P.	0.80	29.30	11.30	28.50

29.30

53.5' N Main St -

W	3.9	25.4
cb	4.1	25.2
¼	2.6	26.7
C	2.7	26.6
¼	3.7	25.6
cb	4.0	25.3
E	3.6	25.7

50' S of Main

E	4.3	25.0
cb	4.6	24.7
¼	4.8	24.5
C	5.4	23.9
¼	5.6	23.7
cb	5.6	23.7
W	5.6	23.7

29.30

100' S of main

W	6.7	22.6
cb	6,6	22.7
1/4	6.1	23.2
C	5.2	24.1
1/4	5.2	24.1
cb	5,4	23.9
E	5.3	24.0

140' S. = Alley

E	6.1	23.2
cb	6.1	23.2
1/4	5.6	23.7
C	5.4	23.9
1/4	5.9	23.4
cb	6,3	23.0
W	7.1	22.2

29.30

160' S = Alley

W	7.0	22.3
cb	6.3	23.0
1/4	6.2	23.1
C	6.1	23.2
1/4	6.2	23.1
cb	6.6	22.7
E	6.4	22.9

200' S of main

E	7.0	22.3
cb	7.1	22.2
1/4	7.2	22.1
C	7.5	21.8
1/4	8.0	21.8
cb	8.3	21.0
W	8.4	20.9

2930

250' S of Main

W		9.1	20.2	
℄		9.6	20.3	
¼		8.8	20.5	
c		8.3	21.0	
¼		8.3	21.0	
℄		8.2	21.1	
E		8.2	21.1	

500' S - N℄ Pier

E		9.9	19.4	
℄		10.0	19.3	
¼		10.0	19.3	
c		10.1	19.2	
¼		10.1	19.2	
℄		10.2	19.1	
W	191	21.00	10.21	19.09 NW Pier

2100

N ℄ Pier

W	2.1	18.9
℄	2.1	18.9
¼	2.1	18.9
c	1.7	19.3
¼	1.9	19.1
℄	1.9	19.1
E	1.8	19.2

N ¼ Pier

E	1.9	19.1
℄	2.0	19.0
¼	2.1	18.9
c	2.1	18.9
¼	2.1	18.9
℄	2.1	18.9
W	2.1	18.9

21.00

On Pierce

W	2.6	18.4
cb	2.5	18.5
1/4	2.6	18.4
C	2.4	18.6
1/4	2.5	18.5
cb	1.9	19.1
E	1.9	19.1

S 1/4 Pierce

E	1.9	19.1
cb	2.5	18.5
1/4	2.7	18.3
C	2.7	18.3
1/4	2.8	18.2
cb	2.8	18.2
W	2.8	18.2

21.00

S cb Pierce

W	3.1	17.9
cb	3.2	17.8
1/4	3.1	17.9
C	3.0	18.0
1/4	3.0	18.0
cb	2.9	18.1
E	2.4	18.6

S 1/4 Pierce

E	2.9	18.1
cb	3.2	17.8
1/4	3.2	17.8
C	3.3	17.7
1/4	3.5	17.5
cb	3.5	17.5
W	3.4	17.6

21.80

50'S of Pierce

W	4,5	16.5
cb	4,3	16.5
1/4	4,5	16.5
C	4,3	16.7
1/4	4,2	16.8
cb	4,0	17.0
E	3.6	17.4

100'S of Pierce

E	4,9	16,1
cb	5.1	15.9
1/4	5,3	15,7
C	5,0	16.0
1/4	4,8	16.2
cb	5.0	16.0
W	5.7	15.3

21.00

140'S - Alley

W	6.4	14.6
cb	6,4	14.6
1/4	6.1	14.9
C	5.8	15.2
1/4	5,8	15.2
cb	5,8	15,2
E	5.7	15.3

160'S Alley

E	6.0	15.0
cb	6,3	14.7
1/4	6,3	14,7
C	6.2	14.8
1/4	6.7	14,3
cb	6,6	14,4
W	6.7	14.3
Top manhole =	2.98	18.01

2100

200'S of Pierce

W	7.4	13.6
cb	7.5	13.5
1/4	7.6	13.4
c	7.5	13.5
1/4	7.3	13.7
cb	7.3	13.7
E	7.2	13.8

250'S of Pierce

E	8.2	12.8
cb	8.3	12.7
1/4	8.6	12.4
c	8.5	12.5
1/4	8.5	12.5
cb	8.7	12.3
W	8.8	12.2

2100

300'S = W.L. Railroad Ave

W	10.3	10.7
cb	10.0	11.0
1/4	9.9	11.1
c	10.0	11.0
1/4	9.9	11.1
cb	9.8	11.2
E	9.8	11.2

N-Cb & Railroad

E	10.1	10.9
cb	10.3	10.7
1/4	10.4	10.6
c	10.4	10.6
1/4	10.4	10.6
cb	10.5	10.5
W	10.5	10.5

2100

N ½ Railroad Ave

W	10,5	10.5
d	10,2	10.8
½	9,2	11.8
c	9,0	12.0
½	8,8	12.2
b	8,8	12.2
E	8.7	12.3

Cr Railroad Ave

E	10,8	10.2
b	11,1	9.9
½	10,9	10.1
c	10,4	10.6
½	9,5	11.5
d	9,5	11.5
W	7,1	11.9

2100

S ½ Railroad Ave

W	11,4	9.6
d	11.2	9.8
½	11,4	9.6
c	11,6	9.4
½	11,5	9.5
b	11,4	9.6
E	11.0	10.0

S b. Railroad Ave

E	11,5	9.5
b	11.7	9.3
½	11,9	9.1
c	11,8	9.2
½	11,7	9.3
d	11,6	9.4
W	11,4	9.6

2100

SL Railroad Ave

W	11,4	9.6
cb	11,9	9.1
1/4	12,0	9.0
C	12,2	8.8
1/4	11,9	9.1
cb	12,2	8.8
E	11.8	

Section from S Cor. to 20' S of W Cor.

E	11 8	9.2
cb	12.2	8.8
1/4	16.0	5.0
C	15.4	5.6
+3'	12.2	8.8
1/4	12.1	8.9
cb	11.8	9.2
W	11.4	9.6

Sicard St.

2100

Rail at W.L.	12.90	8.1
" " E.	12.82	8.18
Pipe ~ M.H. —	7.92	13.08

BM. 1.76 51.74 49.98

Continued from page 61.

S.L. National

E	2.5	49.24	49.25
Cb	3.1	48.6	
1/4	3.2	48.5	
C	2.8	48.9	
1/4	2.7	49.0	
Cb	2.8	48.9	
W.	2.5	49 2	

Sicard St.

51.74

3' S National

W	2.6	49.1
Cb.	2.3	49.4
1/4	2.3	49.4
C	2.7	49.0
1/4	3.0	48.7
Cb	2.3	49.4
E	2.8	48.9

25' S

E	3.4	48.3
Cb	3.7	48.0
1/4	3.9	47.8
C	3.3	48.4
1/4	3.6	48.1
Cb	3.6	48.1
W.	3.5	48.2

51.74

50' S National

W	4.7	47.0
Cb.	4.3	47.4
1/4	4.3	47.4
C	4.1	47.6
1/4	4.4	47.3
Cb	4.8	46.9
E.	4.7	47.0

75' S

E	6.3	45.4
Cb.	6.4	45.3
1/4	6.4	45.3
C	6.2	45.5
1/4	6.0	45.7
Cb	5.7	46.0
W.	5.8	45.9

Sicard St

51.74

100'S National

W			7.0	44.7
Cb			7.3	44.4
1/4			7.9	43.8
C			7.8	43.9
1/4			8.1	43.6
Cb			8.3	43.4
E.			8.3	43.4
	125'S.			
E.			10.1	41.6
Cb.			9.8	41.3
1/4			9.6	42.1
C			9.3	42.4
1/4			9.2	42.5
Cb			9.0	42.7
W.			8.8	42.9
T.P.	1.17	43.02	9.89	41.85

Sicard St.

43.02

140' = Alley

W			0.6	42.4
Cb			0.9	42.1
1/4			1.2	41.8
C			1.2	41.8
1/4			1.7	41.3
Cb			2.1	40.9
E.			2.0	41.0
	160 = Alley			
E			3.0	40.0
Cb			2.9	40.1
1/4			2.3	40.7
C			1.9	41.1
1/4			1.7	41.3
Cb			1.5	41.5
W			1.2	41.8

Sicard St.

43.02

175'S National

W	1.6	41.4
Cb	1.9	41.1
1/4	2.3	40.7
C	2.5	40.5
1/4	3.1	39.9
Cb	3.3	39.7
E	3.4	39.6

200 S.

E	3.8	39.2
Cb	3.8	39.2
1/4	3.6	39.4
C	3.1	39.9
1/4	2.6	40.4
Cb	2.5	40.5
W.	2.4	40.6

43.02

225'S National

W	2.9	40.1
Cb	3.3	39.7
1/4	3.8	39.2
C	4.2	38.8
1/4	4.5	38.5
Cb	4.5	38.5
E	4.5	38.5

250'S.

E	5.2	37.8
Cb	5.0	38.0
1/4	4.9	38.1
C	4.5	38.5
1/4	4.4	38.6
Cb	3.9	39.1
W	3.8	39.2

Sicard St.

43.02

275'S National

W		4.4	38.6
Cb		4.7	38.3
1/4		4.8	38.2
C		5.1	37.9
1/4	POSTED	5.3	37.7
Cb		6.0	37.0
E		5.9	37.1

300'S = N.L. Newton

E		6.8	36.2
Cb		6.8	36.2
1/4		6.4	36.6
C		5.8	37.2
1/4		5.1	37.9
Cb		5.0	38.0
W.		5.2	37.8
E. Rail		6.6	36.4

Clough
Taylor
Orange

Crossection of Longley St (60')
N S of K to Pueblo Sim North

Feb 1/08

	N Sim of		K St	
	0.79	107.94		107.15
WS			1.5	106.4
bl			2.3	105.6
y			3.6	104.3
b			5.3	102.6
y			6.4	101.2
bl			7.7	100.2
ES			8.7	99.2
	25'	N of	K St	
ES			4.7	103.2
bl			3.9	104.0
y			3.1	104.8
b			2.0	105.9
TP	11.90	119.34	0.50	107.44
y			10.8	108.5
bl			9.0	110.3
WS			7.5	111.8

POSTED

		119.34		Longley St
	50'	N of	K St	
		119.34		
WS			3.6	115.7
bl			4.0	115.3
y			5.5	113.8
b			7.0	112.3
y			8.5	110.8
bl			10.8	108.5
ES			12.3	107.0
	75'	N of	K St	
ES			7.7	111.6
bl			6.4	112.9
y			5.3	114.0
b			3.6	115.7
y			2.0	117.3
bl			0.4	118.9
WS			0.0	119.3
TP	12.06	130.06	1.34	118.00

POSTED

		130.06		
	100'	n of	K	st
wh			7.4	122.7
bl			8.4	121.7
y			9.5	120.6
b			10.7	119.4
y			11.3	118.8
bl			13.2	116.9
Eh			14.7	115.4
	125'	n of	K st	
Eh			10.1	120.0
bl			8.8	121.3
y			8.0	122.1
b			6.7	123.4
y			5.6	124.5
bl			4.1	126.0
wh			3.3	126.8

		130.06		Sony by
	150'	n of	K st	
wh			0.5	129.6
bl			1.5	128.6
y			2.5	127.6
b			4.0	126.1
y			5.0	125.1
bl			5.8	124.3
Eh			6.7	123.4
	175'	n of	K st	
Eh			4.2	125.9
bl			3.4	126.7
y			2.5	127.6
b			1.4	128.7
TP	11.36	140.42	1.00	129.06
y			10.6	129.8
bl			9.9	130.5
wh			9.0	131.4

1404r

	202'	n of	K	st
WL			7.5	132.9
bk			7.9	132.5
y			8.3	132.1
b			8.9	130.5
y			10.9	129.5
bk			11.3	129.1
EL			12.3	128.1
	225'	n of	K	st
EL			10.4	130.0
bk			9.8	130.6
y			9.0	131.4
b			8.2	132.2
y			6.7	133.7
bk			5.7	134.7
WL			5.3	135.1

1404r

Simply

	250'	n of	K	st
WL			2.5	137.9
bk			3.6	136.8
y			5.0	135.4
b			6.4	134.0
y			6.8	133.6
bk			7.3	133.1
EL			8.0	132.4
	275	n of	K	st
EL			6.6	133.8
bk			3.5	134.9
y			4.8	135.6
b			4.2	136.2
y			2.4	138.0
bk			1.3	139.1
WL			0.0	140.4
TP	8.25	14678	1.88	138.54

POSTED

14679

	300'	n of	K at	
WL			4,4	142.4
bl			5,6	141.2
y			7,0	139.8
b			9,0	137.8
y			9,2	137.6
ofl			10,5-	136.3
E2			11,4	135.4
	325'	n of	K at	
E2	3		10,2	136.6
bl			9,2	137.6
y			8,3	138.5
b			7,4	139.4
y			5,8	141.0
bl			4,0	142.8
WL			2,8	144.0

14679

	350'	n of	K at	
WL			1,2	145.6
bl			3,0	143.8
y			4,7	142.1
b			6,5-	140.3
y			7,3	139.5
bl			8,6	138.2
E2			10,0	136.8
	375'	n of	K at	
E2			10,3	136.5
bl			8,8	138.0
y			7,5-	139.3
b			6,0	140.8
y			4,5-	142.3
bl			3,2	143.6
WL			0,6	146.2

		14679		
	400'	n of	K st	
Wh			1,8	145.0
bl			3,9	142,9
y			5,3	141.5
b			7,0	139.8
y			8,4	138.4
bl			10,0	136.8
Ek			11,0	135.8
	425'	n of	K st	
Ek			12,1	134.7
bl			11,0	135.8
y			9,8	137.0
b			8,4	138.4
y			7,2	139.6
bl			6,0	140.8
Wh			5,2	141.6

		14679		Longley
	450'	n of	K st	
Wh			7.8	139.0
bl			9,5	137.3
y			10,9	135.9
b			12.0	134.8
TP	075	135.23	12,31	134.48
y			1.6	133.6
bl			2.5	132.7
Ek			3.3	131.9
	475'	n of	K st	
Ek			5,7	129.5
bl			4,6	130.6
y			4,2	131.0
b			3,6	131.6
y			2,0	133.2
bl			0,5	134.7
Wh			0,20	135.4

135-23

	500'	n of	K St	
WL			3.6	131.6
bb			4.8	130.4
y			6.4	128.8
b			7.8	127.4
y			8.8	126.4
bl			10.2	125.0
EL			11.8	123.4
	525'	n of	K St	
WL			8.2	127.0
bb			9.5	125.7
y			11.4	123.8
TP	0.00	123.61	11.62	123.61
b			2.2	121.4
y			3.3	120.3
bl			4.4	119.2
EL			5.4	118.2

RETIED

POSTED

12361 Smyley

550' n of K St

EL	9.7	113.9
bl	8.6	115.0
y	7.8	115.8
b	6.8	116.8
y	5.2	118.4
bl	4.2	119.4
WL	3.0	120.6

575' n of K St

	7.3	116.3
WL	8.7	114.9
bl	9.6	114.0
y	11.0	112.6
y	12.2	111.4
bl	13.3	110.3
EL	14.4	109.2
	12.1	111.70

TP 0.57 111.97

600' n of K St

WL	0.7	111.3
bl	2.8	109.2
y	5.0	107.0
b	7.4	104.6
y	8.9	103.1
bl	9.6	102.4
EL	11.0	101.0

POSTED

641.5 n of K St - Pueblo Line

EL	15.7	96.3
bl	14.6	97.4
y	13.2	98.8
b	12.8	99.2
b	12.4	99.6
bb	11.6	100.4
WL	10.3	101.7

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

347.35
4.41
342.94

6 193
75,5

112.00
9.6
1024

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

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.		

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