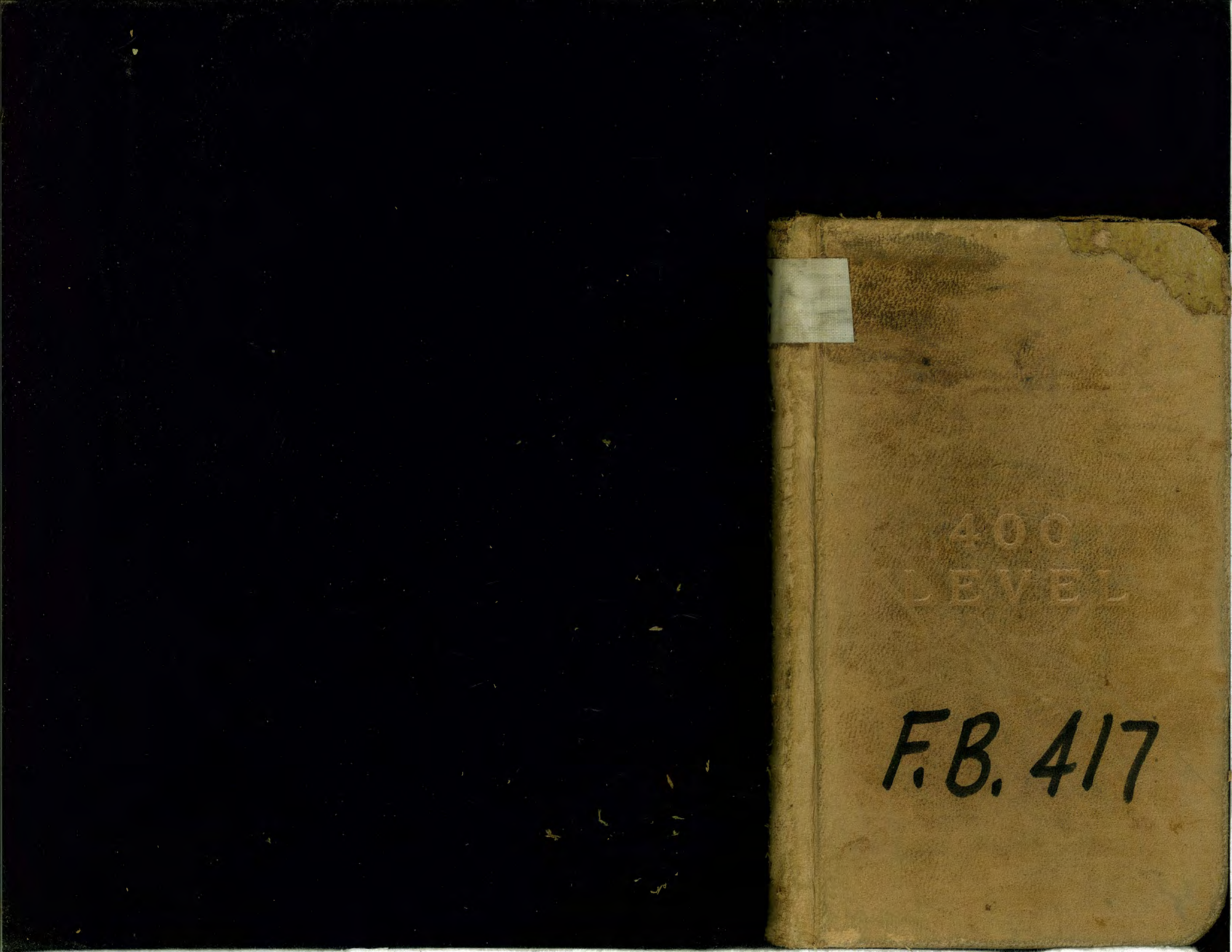
400
LEVEL
F.B. 417

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.

417

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
DEC 10 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

B.M. N.W. cor. 2nd & Long Branch
5.78

B.M. opp. Dr. Bakers House N.E. side
Hd. R.R. spk. Pole. grd: 53.08

N.E. cor. Pt. Loma & Catalina
Brass plug in concrete Mt. 374.78

N.E. Cor. Talbot & Rosecrans
Hd. R.R. spk. pole. grd. 21.72

Hd spk. Eucalyptus. Tree = 269.72

Dr. Mercier place Hd sp. Cor. Fence post
264.38

Near old Palms Hd. sp. white pole at
ground 7.80

Croff. Place Hd. spk Cor. Fence post
2' above ground. 215.19

LORING'S
BOOK STORE
782 5TH ST.
SAN DIEGO.

Pub
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Tabl
ri

MINU

1..
2..
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In the

ANGL

°
4
5
6
7
8
9
10

$1°46 = 12+25$

$3°35$

$5°21$	$+50$
$8°56$	$+75$
$12°31$	1300
$16°06$	$+25$
$19°41$	$+50$
$23°16$	$+75$
$1°24$	$+84.77$
$24°40$	

2 LEVELS on

		H.T		ELE
B.M. 2nd & Brigh	2.23	9.33		7.10
T.P.	4.47	8.34	5.46	3.87
T.P. Hub 2nd & L. Branch	~~2.54~~	8.32	2.54	5.78
T.P.	7.63	12.59	3.36	Lath Hub 4.96
T.P.			1.0	Nail Fence 11.59
	3.12	8.08		Lath Hub 4.96
T.P.	7.70	10.31	5.47	2.61
Sta				
0+00			10.3	0.0
+50			10.4	-0.1
1+00			11.1	-0.8
+50			11.0	-0.7
2+00			12.0	-1.7
+50			13.2	-2.9
3+00			13.0	-2.7
3+50			12.4	-2.1

POST

Ocean Beach Blvd 3

Sta		H.T.		
4+00		10.31	10.4	-0.1
+50			10.7	-0.4
5			10.8	-0.5
+50			10.8	-0.5
6+00			10.5	-0.2
+50			8.6	1.7
+50			7.1	3.2
7			9.7	0.6
+50			9.3	1.0
T.P.	9.57	10.85	9.03	1.28
8+00			9.3	1.5
+50			9.3	1.5
9			9.8	1.0
+50			9.7	1.1
10+0			9.8	1.0
10+35			9.8	1.0

POSTED

Sta		H.I		
10+50		10.85	9.6	1.2
11+00			8.5	2.3
+50			8.3	2.5
12+00			8.1	2.7
+50			9.3	1.5
13			9.3	1.5
13+40			9.4	1.4
+50			9.3	1.5
14+0			9.9	0.9
T.P	10.63	12.01	9.47	1.38
14+50			11.8	0.2
15+0			11.6	0.4
+25			12.0	0.0
+50			11.5	0.5
16+0			10.2	1.8
+50			9.1	2.9
17+0			8.1	3.9

Sta		H.I.		
17+50		12.01	7.0	5.0
18			6.5	5.5
+50			6.4	5.6
+80			7.3	4.7
19			7.0	5.0
+50			6.8	5.2
20			6.5	5.5
T.P.	8.80	14.86	5.95	6.06
20+38.5			8.8	6.1
+50			8.4	6.5
21			7.9	7.0
21+38.4	B.C		6.9	8.0
+50			6.5	8.4
22			5.3	9.6
B.M.			3.[illegible]4	Nail trace 11.59 11.62
T.P	6.50	18.09		11.59
T.P	7.19	24.49	0.79	17.30
T.P.	3.53	26.74	1.28	23.21 T.P.

POSTED

		H.I		
T.P	3.53	26.74	1.28	23.21
T.P	8.70	32.25	3.19	23.55
T.P.			3.40	28.95=ST 38
	HH1	16.00	~~HH~~	16.59
22+50			4.2	11.8
23+00			4.1	11.9
23+50			2.5	13.5
24+00			1.4	12.6
T.P.	6.78	22.12	0.66	15.34
24+50			6.6	15.6
25+00			5.9	16.2
25+50			5.3	16.8
26+00			4.7	17.4
26+42.88=B.C			4.1	18.0
26+50			4.2	17.9
27+00			3.7	18.4
27+50			3.1	19.0
27+86.9=B.C			2.4	19.7

		H.I		
		22.12		
T.P.	7.04	26.78	1.38	19.74
28+00			6.8	20.0
28+50			6.2	20.6
29+00			5.6	21.2
29+50			5.2	21.6
30+00			4.5	21.3
30+50			4.4	22.4
30+98.96=P.R.C.			4.1	22.7
31+50			3.4	23.4
T.P.	5.43	29.25	2.96	23.82
32+00			5.7	23.5
32+50			5.3	23.9
33+00			5.2	24.0
33+43.42			4.8	24.4
33+50			4.6	24.6
34+00			4.6	24.6
34+50			4.1	25.1

		H.I 29.25		
35+00			3.3	25.9
35+33.42			2.8	26.4
T.P	6.22	32.64	2.83	26.42
35+50			5.9	26.7
36+00			5.1	27.5
36+50			4.9	27.7
37+00			5.0	27.6
37+50			4.1	28.5
38+00			3.7	28.9
B.M	6.23 ~~28.85~~	35.08		B.M 28.85
T.P	3.27	33.65	4.70	30.38
T.P	7.62	36.99	4.28	29.37
B.M. Hub 47+00			6.28	30.71
B.M. Hub 38+00	5.80	34.65	~~5.80~~	28.85
38+50 ~~B.M~~			5.5	29.1
39+00			4.7	29.9
39+50			4.3	30.3

		H.I 34.65		
40+00			4.7	29.9
40+50			4.5	30.1
41+00			5.0	29.6
41+50			5.0	29.6
42+60.57			5.2	29.4
T.P.	3.17	32.65	T.P. 29.48	5.17
42+00			3.8	28.8
42+50			4.5	28.1
43+00			4.6	28.0
43+50			4.7	27.9
44+00			4.3	28.3
T.P.	5.51	34.70	POKE ~~29.19~~	29.19 ~~3.46~~
B.M	~~30.71~~	34.70	3.99	30.71 ~~3.99~~
T.P.	5.37	3608	~~4.72~~	H 30.71
1-Bench witness Stake			1.72	34.36

		H.I.		
B.M.	6.35	37.06		30.71
SL 44+50			6.8	30.2 ✓
C			8.2	28.8
N.L.			9.4	27.6
45				
N.L			9.8	27.2
C			8.6	28.4
S.L			6.9	30.1
45+50				
S.L			7.3	29.7
C			8.9	28.1
N.L			11.0	26.0
46				
N.L.			10.5	26.5
C			8.1	28.9
S.L			6.5	30.5

		I.T.		
P.C. 46+50.67		37.06		
S.L.			6.1	30.9
C			7.4	29.6
N.L			9.5	27.5
47				
N.L.			8.5	28.5
C			6.9	30.1
S.L.			5.5	31.5 ✓
47+50				
S.L.			5.3	31.7 ✓
C			6.6	30.4
N.L			7.5	29.5
47+60.57				
N.L			7.4	29.6
C			6.1	30.9
S.L			4.8	32.2

		H.I					H.I		ELE	
48+00		37.06				50+00		37.06		
S.L			4.9	32.1		S.L			6.6	30.4
C			6.2	30.8		C			7.5	29.5
N.L			7.1	29.9		N.L			8.5	28.5
P.C. 48+60.1						T.P	1.78	30.43	8.41	28.65
N.L			7.1	29.9		50+65				
C			5.8	31.2		N.L			5.8	24.6
S.L			4.5	32.9		C			5.9	24.5
49+00						S.L			5.0	25.4
S.L			4.4	32.6		50+85				
C			5.9	31.1		S.L			9.1	21.3
N.L			7.2	29.8		C			8.3	22.1
49+50						N.L			8.8	21.6
N.L			7.6	29.4		51+00 Edge of 12L 88				
C			6.1	30.9		N.L			12.7	17.7
S.L			5.0	32.0		C			12.8	17.6
						S.L			14.0	16.4

		H.I.		Elev
		30.43		
T.P.	0.52	18.74	12.21	18.22
T.P.	2.22	8.42	12.54	6.20
Bottom of BL ~~ff~~ 52+25			13.00	- 4.6
Edge of Slough			13.0	- 4.6
Bottom Slough			15.0	- 6.6
Intersection Pueblo LEVEL Across			10.1	
Water's edge			12.8	- 4.4
T.P.	12.38	20.47	0.33	8.09
80+56.5				
S.L			0+00	20.5
C			1.7	18.8
N.L.			0.3	20.2
T.P.	12.13	31.69	0.91	19.56
T.P.	6.41	37.14	0.96	30.73
B.M. Witness Stake	2.76	37.12		34.36
81				
N.L		~~6.3~~	9.2	27.9
C		~~6.3~~	6.3	30.8
S.L			3.3	33.8

		H.I		
81+50		37.12		
S.L			4.0	33.1
C			6.3	30.8
N.L			8.0	29.1
82+00				
N.L			9.0	28.1
C			7.1	30.0
S.L			5.1	32.0
82+50				
S.L			6.0	31.1
C			8.3	28.8
N.L			10.8	26.3
83+00				
N.L			13.3	23.8
C			9.8	26.3
S.L			6.8	30.3

POSTED

		H.I		
83+50		37.12		
S.L			8.1	29.0
C.			11.0	26.1
N.L			14.4	22.7
T.P	7.88	29.57	10.43	26.69
84+00				
N.L			7.5	22.1
C			3.6	26.0
S.L			00	29.6
84+50				
S.L			00	29.6
C			3.8	25.8
N.L			8.6	21.0
85+00				
N.L			9.9	19.7
C			5.4	24.2
S.L			1.0	28.6

		H.I		
85+50		29.57		
S.L			2.0	27.6
C			7.2	22.4
N.L			12.7	16.9
86+00				
N.L			13.8	15.8
C			8.8	20.8
S.L			4.4	25.2
86+50				
S.L			6.4	23.2
C			10.3	19.3
N.L			15.5	14.1
T.P	7.34	26.53	10.28	19.19
87+00				
N.L			14.1	12.4
C			8.5	18.0
S.L			3.0	23.5

POST

		H.I 26.53		
87+35.8 = E.C				
S.L			3.7	22.8
C			8.6	17.9
N.L			14.4	12.1
87+50				
N.L.			14.3	12.2
C			8.7	17.8
S.L.			3.7	22.8
88+00				
S.L			1.9	24.6
C			7.7	18.8
N.L			13.4	13.1
88+50				
N.L			13.4	13.1
C			6.2	20.3
S.L			1.0	26.5

		H.I 26.53		
89+00				
S.L			00	26.5
C			5.0	21.5
N.L			11.1	15.4
89+50				
N.L			10.6	15.9
C			3.7	22.8
~~S.L~~				
T.P	7.61	31.08	3.06	23.47
S.L			1.8	29.3
90+00				
S.L			1.5	29.6
C			8.1	23.0
N.L			15.0	16.1
90+50				
N.L			14.8	16.3
C			8.5	22.6
S.L			3.6	27.5

POOLED

		H.I 31.08		
91+00				
S.L			3.4	27.7
C			10.0	21.1
N.L			16.0	15.1
B.M	Temecula St & west Pt. Loma		1.65	29.43
91+50			~~17~~	
N.L			17.1	13.1
C			12.0	19.1
S.L			7.6	23.5
92+00				
S.L			9.4	21.7
T.P.	1.33	20.31	12.10	18.98
92+00				
C			4.7	15.6
N.L			10.2	10.1

		H.I. 20.31		
92+50				
N.L			12.1	8.2
C			6.6	13.7
S.L.			2.4	17.9
93+00				
S.L			4.4	15.9
C			9.4	10.9
N.L			13.7	6.6
93+50				
N.L			15.4	4.9
C			11.2	9.1
S.L.			6.6	13.7
94+00				
S.L			8.3	12.0
C			13.0	7.3
N.L			16.6	3.7
T.P.	3.69	14.00	10.00	10.31

B.M = W. Pt Loma & Rialto

POSTED

	HI 14.00		
94+50			
N.L		11.5	2.5
C		7.3	6.7
S.L		2.4	11.6
95+00			
S.L		4.2	9.8
C		8.5	5.5
N.L		12.0	2.0
95+50			
N.L		12.4	1.6
C		9.4	4.6
S.L		5.3	8.7
96+00			
S.L		5.7	8.3
C		10.0	4.0
N.L		12.6	1.4

	HI 14.00		
96+50			
N.L		12.7	1.3
C		10.4	3.6
S.L		6.5	7.5
97+00			
S.L		7.4	6.6
C		10.3	3.7
N.L		12.8	1.2
97+50			
N.L		13.3	0.7
C		10.7	3.3
S.L		7.6	6.4
98+00			
S.L		8.3	5.7
C		10.9	3.1
N.L		13.0	1.0

98+50		HI 14.00		
N.L			13.1	0.9
C			11.1	3.9
S.L			8.6	5.4
T.P	0.73	7.07	7.66	6.34
98+90 = break				
S.L			3.2	3.9
C			5.9	1.2
N.L			9.5	-2.4
99+00				
N.L			11.4	-4.3
C			8.3	-1.2
S.L.			8.7	-1.6
B.M 98+99 = 13.C			8.34	-1.27
Ctr 99+12			11.5	-4.4
T.P	3.52	HI 2.25		B.M -1.27
99+89.6 = edge of slough, bank			6.7	-4.5
99+92 = bottom " "			8.6	-6.4

POSTED

Evans Brooks 9-18-09

		H.I 2.25		
100+00			8.6	-6.4
100+50 = bottom of slough E. side			9.3	-7.1
100+57 = bank " " "			7.1	-4.9
100+60			5.8	-3.6
101+00			5.1	-2.9
102+00			5.1	-2.9
103+00			5.0	-2.8
104+00			4.6	-2.4
105+00			4.6	-2.4
T.P	12.67	10.66	4.26	-2.01
106+00			12.7	-2.0
107+00			12.7	-2.0
108+00			13.9	-3.2
108+20 ctr			13.8	-2.1
N.L			12.8	-2.1
S.L			12.8	-2.1
108+50 S.L			12.9	-2.2

		HI 10.66		
108+50				
Ctr.			6.3	4.4
N.L			00	10.7
109+00				
S.L			4.4	6.3
T.P.	10.56	18.21	3.01	7.65
109+00				
ctr.			6.3	11.9
N.L			1.9	16.3
109+50				
N.L			1.9	16.3
Ctr.			2.4	15.8
S.L.			5.5	12.7
110+00				
S.L			3.8	14.4
Ctr.			3.4	14.8
N.L			3.1	15.1

		HI 18.21		
110+50				
N.L			3.8	14.4
Ctr.			5.0	13.2
S.L			5.8	12.4
110+65				
S.L			6.7	11.5
ctr.			6.5	11.7
N.L			5.1	13.1
T.P	0.39	6.16	12.44	5.77
111+00				
SL.			4.6	4.2
Ctr			6.8	-0.4
N.L.			8.0	-1.8
111+15				
N.L			9.7	-3.5
Ctr			9.7	-3.5
S.L			9.7	-3.5

111+60		+I 6.16				H.I 5.62				
Ctr.			8.4	-2.2	123+91.4 △			4.5	1.1	
112+00			8.0	-1.8	124+00			5.1	0.5	
113+00			8.6	-2.4	125+00			5.3	0.3	
113+29.5 △			8.4	-2.2	T.P.	3.13	4.19	4.56	1.06	
T.P.	6.83	4.66	8.33	-2.17	126+00			1.3	2.9	
114+00			5.7	-1.0	126+50			1.8	2.4	
115+00			4.7	00	T.P. 127+00	12.10	14.02	2.27	T.P. 1.92	
116+00			4.4	0.3	T.P			1.30	2.89	– Rock
116+9.5 = 2nd of P.L.			4.4	0.3	127+65					
117+00			4.7	0.0	N.L			12.8	1.7	
118+00			4.7	0.0	Ctr			5.6	8.4	
119+00			4.6	0.1	T.P.	11.29	25.31	0.0	14.02	
T.P.	5.08	5.62	4.12	0.54	T.P.	13.02	37.60	0.73	24.58	
120+00			5.6	0.0	127+89.8					
121+00			5.2	0.4	Ctr.			3.4	34.2	
122+00			5.0	0.6	N.L.			8.0	29.6	
123+00			4.6	1.0						

		HI		
		37.66		
T.P.	11.97	46.21	3.36	34.24
12765				
S.L.			4.7	41.5
12789.8				
S.L			3.7	42.5
12800				
S.L			3.7	42.5
C.L.			8.3	37.9
N.L			13.3	32.9
12818.6 = Inv. P/L.				
N.L			12.0	34.2
Ctr.			4.2	42.0
S.L			0.0	46.2
T.P.	12.16	54.16	4.21	42.00
12870				
S.L. LINE			3.0	51.2
Cen.			7.9	46.3

		HJ		
		54.16		
12900				
S.L INE			1.7	52.5
12930				
S.LINE			6.3	47.9
T.P.	0.61	42.39	12.38	41.78
T.P.	2.38	32.60	12.17	30.22
(12900	Center)		10.0	22.6
12930				
S.LINE				47.9
Center			13.0	19.6
12950				
Center			14.6	18.0
T.P.	1.97	22.98	11.64	20.96
T.P.	4.92	15.21	12.64	10.29
12930				
N.LINE			11.5	3.7
12870				
N.LINE			11.0	4.2

		H J					H J			
129+50		15.21					9.40			
IV. LINE			14.2	1.0		133+0			9.1	0.3
130+0						DYKE			5.5	3.9
S LINE		(Estimated ELE		26.0	)	133+282			9.5	-0.1
Cen			7.1	8.1		DYKE			4.9	4.5
IV. LINE 129+00			11.8	3.4		134			9.9	-0.5
IV LINE			13.2	2.0		DYKE			5.3	4.1
B.M. Rock			12.31	2.9	2.89 2.90	135			9.7	-0.3
130+50			9.5	5.7		DYKE			4.9	4.5
130+80						136			9.8	-0.4
S. LINE			9.0	6.2		DYKE			4.9	4.5
Center			9.9	5.3		T.P.	9.18	9.62	8.96	0.74
IV. LINE			11.0	4.2		137			9.6	0.0
						D			4.9	4.7
131.			13.4	1.8		138			9.4	0.2
B.M.	6.5X	9.40			2.89	D			4.7	4.9
132			7.4	2.0		138+77.3			9.2	0.4
DYKE			5.4	4.0		D			5.0	4.6

		H.I		
139		9.67	9.5	0.1
D			4.6	5.0
140			9.5	0.1
D			4.2	5.4
141			9.3	0.3
D			4.2	5.4
142			9.1	0.5
D			4.1	5.5
T.P	450	10.08	4.04	5.58
143			9.5	0.6
D			4.6	5.5
143+99.2 △			9.1	1.0
D			4.5	5.6
144+0			9.1	1.0
D			4.5	5.6
145			9.7	0.4
D			4.7	5.4

		H.I		
146		10.08	9.7	0.4
D			4.1	6.0
147			9.4	0.7
D			4.0	6.1
148			9.2	0.9
D			3.6	6.5
149			9.3	0.8
D			3.6	6.5
T.P	9.42	11.05	8.45	1.63
150			10.1	0.9
D			4.6	6.4
150+28.8			9.9	1.1
D			5.1	5.9
151			10.4	0.6
D			5.0	6.0
152			10.3	0.8
D			4.7	6.4

		H.I		
153		11.05	10.3	0.7
D			4.9	6.1
154			9.8	1.3
D			5.1	5.9
154+63.5			10.3	0.8
D			5.2	5.8
T.P.	5.82	11.66	5.21	5.84
155			11.0	0.7
DUKE			5.4	6.3
156			11.1	0.6
D			4.9	6.8
157			10.7	1.0
D			4.7	7.0
158			10.1	1.6
D			4.6	7.1
159			9.9	1.8
D			4.6	7.1

		H.I			
159+32.2		11.66	9.4	2.3	
D			4.8	6.5	
160			10.5	1.2	
D			4.8	6.9	
B.M.			7.91	3.75	Nail in fence NEAR Sta 160

Continued in Book 345 P. 45

POSTED

Levels on Point Loma Blvd
From Landscape & Hemelita St to

B.M.	9.80	31.52		21.72
T.P.	11.85	42.58	0.79	30.73
		0+00		
E.			3.3	39.3
C.			2.4	40.2
W.			2.1	40.5
TP	5.75	46.72	1.61	40.97
		1+00		
E			6.4	40.3
C.			5.6	41.1
W.			4.8	41.9
		1+50		
W			5.9	41.7
C.	X		5.7	41.0
E			6.5	40.2
		2+00		
E.			7.3	39.4
C.			6.4	40.3
W.			5.6	41.1

Readings on ℄ & 15' each side

Wireless Station

24

		2+50		
W		46.72	2.4	44.3
C			4.3	42.4
E			7.6	39.1
T.P.	11.69	58.29	0.12	46.60
		3+00		
E			14.5	43.8
C			10.5	47.8
W			5.6	52.7
		3+60.5		
W			-0.3	58.6
C.		X	1.6	56.7
E			4.7	54.1
T.P.	11.96	69.96	0.29	58.00
		4+00		
E			17.4	52.6
C			10.7	59.3
W			8.5	61.5

		4+50		
W.		69.96	6.1	63.9
C			8.6	60.4
E			11.0	59.0
		5+00		
E			7.8	67.2
C.			5.0	65.0
W.			2.3	67.7
T.P	12.78	82.19	0.55	69.41
		5+50		
W.			9.6	72.7
C			12.9	69.3
E.			16.7	66.0
	6+06			
E.			11.3	70.9
C.			6.8	66.4
W.			2.6	79.6

		6+50		
W.		87.19	1.6	80.6
C.			4.7	77.5
E.			8.7	73.5
		7+00		
E			12.6	69.6
C			10.5	71.7
W			6.6	75.6
T.P.	12.87	94.99	0.01	87.18
		7+50		
E.			8.7	86.3
C.			4.5	90.5
W.			0.6	94.4
T.P.	12.91	107.62	0.28	94.71
		8+00		
E			13.7	94.4
C			9.6	98.0
W.			5.8	101.8

T.P		HI 107.62			
	9.35	116.95	0.02	107.60	
		8+50			
E			15.2	101.7	
C			11.6	105.3	
IV			7.4	109.5	
		9+00			
IV			3.6	114.3	
C			6.0	110.9	
E			9.9	107.0	
		9+23.5			
E			8.8	108.1	
C			4.7	112.2	
IV			0.9	116.0	
		9+50			
IV			3.4	113.5	
C			7.4	109.5	
E			11.9	105.0	

		10+00		
E		116.9	17.0	99.9
C			15.7	101.2
IV			12.6	104.3
		10+45		
IV		116.95	1.1	115.8
C			3.2	113.7
E			5.0	111.9
T.P	12.89	129.38	0.46	116.49
		10+89.9		
E			13.3	116.1
C			9.7	119.7
IV			4.8	124.6
		11+00		
IV			3.0	126.4
C			7.8	121.6
E			12.3	117.1

		11+11.7		
E		129.38	7.6	121.8
C.			3.2	126.2
W.			-2.5	131.9
Sp. in pole. opp. Sta 11+11.7				
B.M.			9.59	119.79
		11+50		
W.			0.5	128.9
C.			2.4	127.0
E			6.0	123.4
		12+05		
E.		129.38	18.6	110.8
C.			16.0	113.4
W.			11.3	118.1
T.P	13.06	142.10	0.34	129.04
		12+50		
E			13.5	128.6
C.			9.3	132.8
W.			5.3	136.8

		13+00		
W.		142.10	-0.5	142.6
C.			4.1	138.0
E			8.4	133.7
T.		13+50		
E			8.0	134.1
C.			4.5	137.6
W.			0.8	141.3
		14+00		
W.		142.10	2.3	139.8
C.			4.5	137.6
E.			7.5	134.6
T.P	12.99	154.83	0.26	141.84
		+50		
W			8.1	146.7
C			11.2	143.6
E			14.4	140.4

		15+00		
F		154.83	1.25	142.3
C			8.6	146.2
W			5.6	149.2
		1+50		
W			5.9	148.9
C			8.8	146.0
E			11.2	143.6
		1+65		
W			-0.3	155.1
C			4.3	150.5
E			7.6	147.2
		16+00		
E			10.3	
C			6.0	148.8
W			0.8	
T.P	11.81	166.38	0.26	154.57

		16+50		
W		166.38	9.1	
C			13.4	153.0
E			16.3	
		17+00		
E			13.2	
C			9.2	157.2
W			5.8	
		17+50		
W		166.38	2.1	
C			4.6	161.8
E			8.2	
T.P	12.26	178.08	0.56	165.82
		18+00		
W			8.4	
C			10.8	167.3
E			14.5	

		18+50			
E		178.08	12.6		
C.			10.7	167.9	
W.			7.1		
		19+00			
W.			2.7		
C.			6.6	171.5	
E.			11.0		
		19+50			
E		178.08	4.5		
C.			2.0	176.08	
W.			-1.3	179.4	
T.P.	10.58	188.60	0.06	178.02	
		20+00			
E			14.7		
C.			12.7	175.9	
W.			10.3		

		20+50			
W		188.6	9.9		
C.			11.7	176.9	
E.			13.0		
		21+00			
E.			8.5		
C.		188.60	6.4	182.2	
W.			4.5	184.1	
T.P	12.98	201.05	0.53	188.07	BM on Hub: Sta 21+39.
		21+50			
W.			9.0		
C.			10.4	190.6	
E			11.9		
		21+75			
E			6.2		
C			4.2	196.8	
W			4.3		

T.		22+00		
W		201.0	7.8	
C			10.2	190.8
E			11.6	
		22+25		
E			5.3	
C			3.4	197.6
W			3.2	
		22+50		
W		204.05	1.4	
C			2.5	198.5
E			4.1	
T.P.	12.50	213.06	0.49	200.56
		23+00		
E			12.3	200.8
C			11.1	202.0
W			10.0	

		23+50		
W		213.06	1.2	
C			3.1	210.0
E			3.7	
T.P.	12.91	225.49	0.48	212.58
		23+75		
E			7.7	
C			7.5	218.0
W			4.6	
		24+00		
W		225.49	1.4	
C			4.2	221.3
E			6.3	
T.P.	12.57	238.00	0.06	225.43
		24+50		
W			9.5	
C			12.9	225.1
E			16.7	

		25+00			
E		238.00	10.8		
C.			5.4	232.6	
W.			1.4		
		25+50			
W.			4.5		
C.			8.9	229.1	
E			13.7		
		26+00			
E			21.00		
C.			16.8	221.2	
W.			12.8		
		26+50			
W			5.2		
C			6.3	231.7	
E			13.3		

		26+70			
E		238.0	20.5		
C.			16.5	221.5	
W			9.2		
		27+00			
W.		23800	2.4		
C.			7.4	231.6	
E			13.8		
T.P	1237	250.30	0.07	237.93	
		27+50			
E			11.3		
C			8.8	241.5	
W.			5.2		
		27+75			
W.			1.7		
C.			3.9	246.4	
E			1.0		
T.P	5.70	255.61	0.39	249.91	

	255.61		
B.M.		5.77	249.84 mail in post at Sta 28+00
	27+85		
E		5.5	250.1
C.		4.1	251.5
W.		3.2	
	28+00		
E		5.2	
C.		3.2	252.4
W.		1.3	
	29+00		
W.		5.1	
C.		6.4	249.2
E		8.0	
	30+00		
E		11.1	
C.		9.8	245.8
W.		8.3	

	31+00		
W	255.6	9.2	
C.		10.5	245.1
E		12.1	
	31+40		
W.		10.7	
C.		13.5	242.4
E		14.3	
	31+60		
E		11.7	
C.		9.2	246.4
W.		7.4	
	32+00		
W		6.0	
C		8.0	247.6
E		10.1	

		32+50			
E			9.2		
C			7.1	248.5	
W			4.8		
		33+00			
W		255.61	0.4		
C			1.9	253.7	
E			3.6		
T.P	12.5	267.80	0.36	255.75	
		33+50			
W			8.3		
C			9.9	257.9	
E			11.7		
		34+00			
E			8.5		
C			6.0	261.8	
W			4.8		

		34+50			
W		267.80	3.6		
C			5.6	262.3	
E			8.7		
		35+00			
E			4.3		
C			2.7	265.1	
W			1.5		
					cont 6.5 to 35+36
T.P	12.46	279.8.5	0.41	267.39	BM
		+50			
W			10.3		
C			11.4	268.4	
E			12.3		
		36+00			
E			9.6		
C			8.6	271.2	
W			7.1		

		36+50		
		279.85		
W.			3.5	
C.			5.0	274.8
E			6.6	
		37+00		
E			3.5	
C.			1.1	278.7
W.			-0.3	280.1
T.P.	12.61	292.37	0.09	279.76
		37+50		
W			8.3	
C			10.1	282.3
E			11.6	
		38+00		
E			10.7	
C			8.4	284.0
W.			7.3	

		38+50		
W		294.4	4.4	
C			6.1	286.3
E			8.6	
		39+00		
E			7.7	
C.			4.6	288.4
W.			2.4	
		39+50		
W		292.37	1.3	
C.			2.5	289.9
E			4.8	
T.P.	12.31	303.64	10.4	291.33
		40+00		
W			12.4	
C.			14.0	289.6
E			15.0	

	40+50			
	303.64			
E		13.8		
C		12.5	291.1	
W		11.1		
	41+00			
W		10.1		
C		10.6	293.0	
E		11.7		
	41+50			
E		9.8		
C		8.1	295.5	
W		6.5		
	42+00			
W		4.5		
C		7.0	296.6	
E		8.0		

	42+50			
E	303.6	6.8		
C		4.6	299.0	
W		2.8		
	43+00			
W		1.4		
C		3.5	300.1	
E		6.0		
	43+50			
E	303.64	5.8		
C		3.6	300.0	
W		1.2		
T.P	1285	316.19	030	303.34
	44+00			
W		7.7		
C		8.9	307.2	
E		10.1		

		44+50		
E.		316.19	4.6	
C			4.0	312.2
W			3.1	
T.P	10.21	325.03	1.39	314.82
		45+00		
W			8.8	316.2
C			9.6	315.4
E			10.4	
		45+50		
E			8.6	
C.			7.3	318.7
W.			6.5	
		46+00		
W.			4.0	
C.			4.8	320.2
E.			5.9	

		46+50		
E		325.03	3.1	
C.			2.4	322.6
W.			1.3	
T.P	12.10	336.79	0.34	324.69
		47+00		
W.			10.6	
C.			11.4	325.4
E.			12.2	
		47+50		
E			9.9	
C.			9.2	327.6
W.			8.4	
		48+00		
W			5.7	
C.			6.6	330.2
E			7.2	

		48+50		
E		336.99	5.7	
C			4.6	334.7
W.			3.4	
T.P.	12.69	348.60	0.88	335.91
		49+00		
W			12.8	335.8
C			14.0	334.6
E			15.0	
		49+50		
E			12.7	
C			11.8	336.8
W.			11.0	
		49+81		
W			11.6	337.0
C			11.1	337.5
S			10.8	337.8

		50+00		
E		348.6	9.4	339.2
C			9.8	338.8
W			9.7	338.9
		50+50		
W			7.5	341.1
C			7.3	341.3
S			6.7	341.9
		51+00		
S			4.6	344.0
C			5.1	343.5
W			5.1	343.5
		51+50		
W			3.4	345.2
C			3.1	345.5
S			2.7	345.9

		52+00		
S		348.6	1.9	346.7
C			2.3	346.3
N			2.4	346.2
		52+50		
N			2.6	346.0
C			2.5	346.1
S			2.2	346.4
		53+00		
S		348.60	3.4	345.2
C			3.7	344.9
N			3.7	344.9
T.P	2.13	346.33	4.40	344.20
		53+50		
N			2.9	343.4
C			2.9	343.5
S			2.6	343.7

		53+98.9 =		
N		346.33	4.9	341.4
C			4.7	341.6
S			4.4	341.9
T.P	4.42	349.13	1.62	344.71
			5.80	343.33

Readings on ℄ & 15' each side

Levels on Fort Stockton Blvd.

B.M.	Cor Mendes Fence 0.48	264.86		264.38
T.P.	0.20	259.14	11.92	252.94
T.P.	1.01	241.30	12.85	240.29
Sta 0+00				
S			4.3	236.0
C			5.1	236.2
N.			5.9	235.4
0+50				
N			12.4	228.9
C			11.4	229.9
S			10.1	231.2
T.P.	1.84	230.62	12.62	228.78
1+00				
S			4.8	225.8
C			6.0	224.6
N			7.1	223.5

150+00		230.62		
N			12.4	218.2
C			11.8	218.8
S			11.1	219.5
T.P.	0.39	218.61	12.40	218.22
2+00			3.4	215.2
S			3.4	215.2
C			3.4	215.2
N			3.2	215.4
2+50				
N			6	212.3
C			6.7	211.9
S			6.9	211.7

POSTED

POSTED

		H	
		218.61	
3+00			
S		8.9	209.7
C		8.7	209.9
N		8.1	210.5
3+50			
N		9.0	209.6
C		10.5	208.1
S		11.2	207.4
4+00			
S		12.3	206.3
C		12.0	206.6
N		10.9	207.7
B.M. Croft Place		3.34	215.19 215.27

		H.J.		218.61 3.34 215.27	
		218.53			
T.P.	0.68	208.10	11.11	207.42	
4+50					
N			3.2	204.9	
C			5.0	203.1	
S			5.8	202.3	
5+00					
S			7.4	200.7	
C			6.6	201.5	
N			5.9	202.2	
5+57.5 = 5+45					
N			4.6	203.5	
C			6.2	201.9	
S			8.6	199.5	

POSTED

		H		
		208.10		
6+00				
S			10.0	198.1
C			8.9	199.2
N			6.5	201.6
6+50				
N			10.4	197.7
C			12.3	195.8
S			16.0	192.1
T.P.	2.34	198.43	12.01	196.09
7+00				
S			14.0	184.4
C			9.0	189.4
N			5.0	193.4

		H. 198.43		
7+50				
N			7.3	191.1
C			9.7	188.7
S			13.3	185.1
T.P.	1.32	187.91	11.84	186.59
8+00				
S			8.2	199.7
C			2.7	185.2
N			0.0	187.9
8+50				
N			3.9	184.0
C			6.8	181.1
S			11.2	176.7
8+88 S			15.4	172.5
C			10.4	177.5
N			7.3	180.6

POSTED

		H.I		
		187.91		
9+00				
N			7.3	180.6
C			11.1	176.8
S			17.4	170.5
9+50				
S			15.3	172.6
C			9.8	178.1
N			7.4	180.5
10+00				
N			9.8	178.1
C			12.1	175.8
S			14.4	173.5
T.P.	2.31	178.52	11.70	176.21

		H.I		
		178.52		
10+50				
S			9.7	168.8
C			6.7	171.8
N			4.1	174.4
11+00				
N			9.5	169.0
C			10.7	167.8
S			13.0	165.5
T.P.	3.31	170.09	11.74	166.78
11+50				
S			7.0	163.1
~~N~~ C			4.0	166.1
C N			2.3	167.7

POSTED

		H		
11+93.1		170.09		
N			1.9	168.2
C			3.3	166.8
S			5.1	165.0
12+00				
S			5.3	164.8
C			3.3	166.8
N			2.0	168.1
12+50				
N			2.0	168.1
C			3.5	166.6
S			5.7	164.4

		H		
13+00		170.09		
S			10.3	159.8
C			8.8	161.3
N			7.0	163.1
13+50				
N			12.1	158.0
C			14.0	156.1
S			15.6	154.5
T. P.	3.42	161.05	12+6	157.63
14+00				
S			8.1	152.9
C			7.7	153.3
N			6.3	154.7

	H.I		
14+25	161.05		
N		5.0	156.0
C		6.5	154.5
S		8.1	153.6
14+50			
S		10.6	151.4
C		8.0	153.0
N		6.2	154.8
15+00			
N		8.9	152.1
C		10.4	150.6
S		12.1	148.9

	H.I			
15+50	161.05			
S			16.0	145.0
C			11.6	149.4
N			8.8	152.2
16+00				
N			10.4	150.6
C			15.2	145.8
S			18.2	142.8
T.P.	0.93	149.13	12.85	148.20
16+50				
S			11.7	137.4
C			7.7	141.4
N			3.6	145.5

POSTED

		H.I 149.13		
17+00				
N			5.6	143.5
C			9.4	139.7
S			14.9	134.2
17+50				
S			19.0	130.1
C			12.8	136.3
N			7.2	141.9
T.P.	1.58	138.32	12.39	136.74
18+00				
N			−2	138.5
C			4.2	134.1
S			10.7	127.6

		H.I 138.32		
18+50 △				
S			16.0	122.3
C			8.7	129.6
N			2.8	135.5
19+00				
N			4.0	134.3
C			10.2	128.1
S			16.5	121.8
19+50				
S			16.7	121.6
C			10.6	127.7
N			4.8	133.5
20+00				
T.P.	1.81	128.53	11.58	126.74

POSTED

		HI		
20+00		128.55		
N			00	178.6
C			5.2	123.3
S.			10.2	118.4
20+50				
S			15.8	112.8
C			10.7	117.8
N.			5.9	122.7
21+00				
N.			6.2	121.4
C			10.4	118.1
S.			15.5	113.1
T.P.	1.30	117.71	12.14	116.41
21+65				
N			1.8	115.9

		HI		
21+65		117.71		
C			6.5	111.2
S			12.1	105.6
22+00				
S			13.6	104.1
C			9.1	108.6
N			5.4	112.3
22+50				
N.			8.3	109.4
C			12.7	105.0
S			17.6	100.1
T.P.	00	105.13	12.58	105.13
23+00				
S.			8.7	96.4
C			4.8	100.3
N.			1.0	104.1

POSTED

		HI 105.13		
23+75				
N			2.8	102.3
C			6.7	98.4
S			10.9	94.2
24+00				
S			13.0	92.1
C			9.5	95.7
N			6.0	99.1
24+50				
N			9.9	95.2
C			13.3	91.8
S			16.0	89.1
T.P	2.59	94.96	12.76	92.37

		HI 94.96		
25+00				
S			6.7	88.2
C			3.0	91.9
N			0.0	95.0
25+50				
N			3.3	91.6
C			5.7	89.2
S			8.9	86.0
26+05.8				
S			11.4	83.5
C			8.0	86.9
N			5.6	89.3
26+50				
N			6.1	88.8
C			9.7	85.2
S			13.1	81.8

POSTED

		HI		
26+70		94.96		
S			13.8	81.1
C			11.3	83.6
N			7.0	87.9
T.P.	00	84.33	10.63	84.33
27+00				
N			3.2	81.1
C			6.8	77.5
S			9.8	74.5
27+50				
S			14.1	70.2
C			12.4	71.9
N			9.9	74.4
28+00				
N			6.3	78.0
C			9.3	75.0
S			11.8	72.5

		HI.		
28+00 = A		84.33		
S			11.9	72.4
C			8.2	76.1
N			5.6	78.7
28+50				
N.			6.3	78 0
C			9.7	74.6
S			13.6	70.7
29+00 = A				
S			16.1	68.2
C			14.0	70.3
N			12.1	72.2
T.P.	0.38	71.95	12.76	71.57
29+50				
S			6.4	65.5
C			6.4	65.5
N			5.5	66.4

		HI.		
30+00		71.95		
N			11.6	60.3
C			11.8	60.1
S			11.0	60.9
T.P.	3.70	63.52	12.13	59.82
30+50 = Δ				
W.			7.5	56.0
C			5.9	57.6
E			5.0	58.5
31+00				
E			8.0	55.5
C			9.3	54.2
W			9.9	53.6
31+80				
W			10.0	53.5
C			9.0	54.5
E			7.6	55.9

		HI.		
32+00		63.52		
E			10.4	53.1
C			12.4	51.1
W			13.7	49.8
T.P.	2.92	53.92	12.52	51.00
32+50				
W			17.9	36.0
C			13.3	40.6
E			9.2	44.7
33+00				
W			15.3	38.6
C			11.2	42.7
E			8.6	45.3
T.P.	0.43	42.10	12.25	41.67
33+40.3 = Δ				
W.			4.0	38.1
C			1.0	41.1
E			-2.0	43.1

POST-

		HI		
34+00		42.10		
E			8.4	33.7
C			12.0	30.1
W			16.0	26.1
34+25				
W			11.7	30.4
C			8.4	33.7
E			4.3	37.8
T.P.	0.03	30.67	11.46	30.64
35+00				
E			4.0	26.7
C			7.9	22.8
W			13.3	17.4
T.P.	0.27	19.13	11.81	18.86

		HI		
35+35		19.13		
E			0.5	18.6
C			3.3	15.8
W			6.2	12.9
T.P.	1.85	12.14	8.84	10.29
				7.80 = 13.11
T.P.			4.43	7.71

POSTED

Levels on Escondido Blvd.

City datum 5.82 Lower Govt. B.M.

	+	H.I.	−		
B.M.	4.34	32.34		28.00	
				inside poor farm fence	✓
B.M. on Plume			3.14	29.20	
T.P.	11.23	43.35	0.22	32.12	
	12.12	54.76	0.71	42.64	
	8.51	60.30	2.97	51.79	
		P.C. Curve on Hospital Grade.			
P.C. curve.			1.8	58.5	
+25			2.2	58.1	
+50			6.4	53.9	
1			9.5	50.8	
+40 Bottom Ditch			12.4	47.9	
+50			11.8	48.5	
+55			10.4	49.9	
2			11.2	49.1	
+50			12.8	47.5	
3			14.7	45.6	
+50			14.7	45.6	
+70.3 P.T. = 2+00 Old line			11.8	48.5	

POSTED

Commence at Poor Farm Grade

		60.30		
T.P.	12.20	72.48	0.02	60.28
	8.65	80.50	0.63	71.85
2+70.6			1.2	79.3
3+00			1.7	78.8
3+30			2.6	77.9
+50			10.2	70.3
				on Hub 3+50
T.P. = B.M.	0.90	70.14	11.26	69.24
3+80			10.0	60.1
T.P.	0.54	58.81	11.87	58.27
+95			7.2	51.6
4+00			12.4	46.4
T.P.	1.63	47.75	12.69	46.12
4+25			10.1	37.6
+50			13.0	34.7
5+00			13.8	33.9
T.P.	0.04	35.03	12.76	34.99
+50			3.8	31.2
6+00			4.9	30.1
7+00			7.2	27.8

POSTED

		35.03		
8+00			7.9	27.1
				29.20
B.M. Filmore			5.83	29.20
T.P.	1.82	31.43	5.42	29.61
9+00			4.7	26.7
10+00			4.8	26.6
11+00			4.8	26.6
12+00			5.4	26.0
13			4.6	26.8
13+58.7			4.9	26.5
T.P.	2.53	30.80	3.16	28.27
14			4.2	26.6
15			4.6	26.2
16			4.6	26.2
17			4.3	26.5
18			4.5	26.3
19			5.2	25.6
20			4.9	25.9

POSTED

		30.80		
T.P.	5.21	31.21	4.80	26.0
21+0			5.7	25.5
22+0			5.4	25.8
23+0			4.6	26.6
24+0			3.6	27.6
25+0			3.6	27.6
26+0			3.6	27.6
T.P.	1.99	30.25	2.95	28.26
27+0			2.6	27.6
River Bed +75			3.3	26.9
28			6.7	23.5
29			7.0	23.2
+15			7.2	23.0
+25			5.7	24.5
30			5.3	24.9
31			4.8	25.4
32			5.3	24.9

POS.

		30.25			
T.P.	3.90	31.11 ~~30.11~~	3.04	27.21 ~~26.21~~	
33+0			5.7	25.4	
34			5.3	25.8	
35			4.7	26.4	
B.C. 35+79.1			4.6	26.5	
36+0			5.1	26.0	
36+50			4.5	26.6	
37			4.4	26.7	
37+35			4.2	26.9	
37+50			2.2	28.9	
T.P.	7.25	36.55 ~~36.55~~	1.81	29.30 ~~28.30~~	
B.M. on N.W. cor Rear fence			7.79	22.75 / 28.76	correction +.94
38			8.7	27.8	
38+50			9.6	26.9	
39			9.7	26.8	
39+40			7.2	29.3	
+50			4.4	32.1	

		36.55		
T.P.	11.56	48.07	0.04	36.51
39+75			9.6	38.5
40+0			2.9	45.2
+10			1.4	46.7
40+50			0.0	48.1
T.P.	6.94	54.84	0.17	47.90
40+60			1.8	53.0
B.C. 40+83.95			2.6	52.2
41+0			3.9	50.9
Intersection Pueblo 41+65			9.0	45.8
42+0			9.7	45.1
43+0			6.9	47.9
T.P.	8.20	~~56.15~~	6.89	47.95
44+00			7.3	48.8
44+50			7.6	48.5
45+00			8.7	47.4
45+50			7.5	48.6
46+00			9.3	46.8

		56.15		
T.P.	5.23	51.18	10.20	45.95
46+50			5.4	45.8
47+00			6.5	44.7
Inter of P.L. 47+30.3			5.0	46.2
47+50			3.2	48.0
48+00			4.4	46.8
48+50			3.5	47.7
49+00			3.2	48.0
49+25			3.1	48.1
49+75			4.6	46.6
50+00			3.1	48.1
T.P.	9.70	54.10	6.78	44.40
51+00			4.6	49.5
51+15			4.4	49.7
51+35			4.0	50.1
52+00			5.3	48.8
52+40			5.1	49.0
52+50			5.0	49.1

		H.I		
		54.10		
53+00			4.4	49.7
53+50			5.7	48.4
54+00			7.3	46.8
T.P.	7.64	53.92	7.82	46.28
54+50			5.4	49.5
55+00			3.6	50.3
55+40			3.0	50.9
56+00			5.8	48.1
56+75			7.6	46.3
57+00			7.0	46.9
58+00			4.3	49.6
59+00			3.2	50.7
T.P.	6.74	56.89	3.77	50.15
59+50			5.0	51.9
60+00			3.9	53.0
60+50			4.2	52.7
61+00			3.8	53.1

		H.I 56.89		
62+00			2.7	54.2
62+25			7.0	49.9
62+75			9.5	47.4
63+00			8.9	48.0
T.P.	9.53	57.03	9.39	47.50
64+00			8.1	48.9
65+00			5.4	51.6
66+00			5.0	52.0
T.P.	9.42	64.91	1.54	55.49
67+00			10.2	54.7
68+00			8.8	56.1
69+00			5.6	59.3
70+00			3.5	61.4
T.P.	10.25	73.21	1.95	62.96
71+00			9.5	63.7
72+00			6.9	66.3
72+30			6.3	66.9

		H.I. 73.21		
72+45			6.4	66.8
72+50			9.0	63.9
72+95			7.8	65.4
73+00			4.1	69.1
T.P.	10.60	80.03	3.78	69.43
74+00			5.6	74.4
74+20			4.5	75.5
75+00			2.5	73.5
75+50			5.3	74.7
75+60			6.5	73.5
76+00			5.3	74.7
T.P.	10.19	86.54	3.68	76.35
77+00			10.2	76.3
77+50			8.4	78.1
78+00			7.9	78.6
79+00			5.7	80.8
79+45			4.00	82.5

		H.I 86.54		
opp. 79+45				
B.M.-3 nails in Phone Pole			3.76	82.78
80+00			3.3	83.2
T.P.	12.60	96.47	2.67	83.87
80+50 ℄ to left			12.1	84.4
81+00			9.5	87.0
81+50			7.3	89.2
82+00			6.5	90.0
82+00 B.M.			6.47	90.00

POSTED

1

Levels on Escondido Blvd bet 1105 & 1106

	+	H.I.	−	Elev.
BM	2.19	24.37		22.18
0+00			5.5	18.9
1+00			3.3	21.1
T.P	3.60	25.71	2.26	22.11
2+00			5.2	20.5
3+00			5.1	20.6
4+00			4.7	21.0
+85			4.2	21.5
5+00			4.9	20.8
+60			7.1	18.6
5+75			8.8	16.9
6+00			7.7	18.0
+30			4.7	21.0
7+00			5.3	20.4
T.P	5.59	27.06	4.24	21.47
8+00			5.8	21.3
9			5.0	22.1
+30			5.6	21.5
+50			8.7	18.4
10			7.9	19.2
10+20	27.06		6.7	20.4
11+00			6.5	20.6
T.P	4.53	25.06	6.53	20.53
11+15			5.9	19.2
+17			10.1	15.0
12+00			9.1	16.0
+40			9.0	16.1
+50			7.8	17.3
+60			5.2	19.9
+70			6.3	18.8
+80			4.7	20.4
13+00			4.8	20.3
14+0			5.6	19.5
15+00			5.2	19.9
1640			4.5	20.6
T.P	4.01	25.05	4.02	21.04
17+0			6.5	18.5
18+0			5.9	19.1

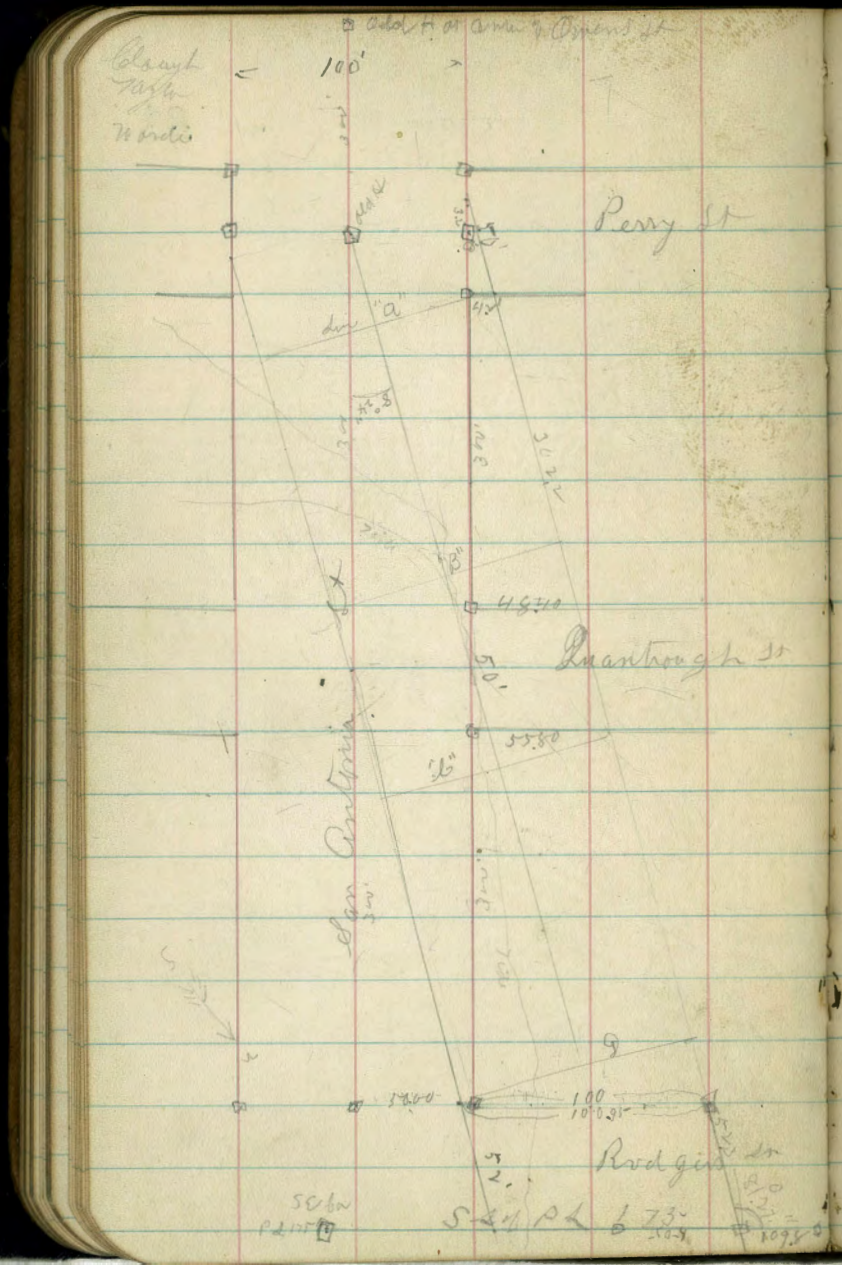
Posted

P

19+0		25.05	7.7	17.3
19+35			7.3	17.7
+45			4.5	20.5
20+0			4.5	20.5
21+00			4.6	20.4
22+0			4.9	20.1
T.P	2.65	23.84	3.86	21.19
23+0			4.6	19.2
24			4.1	19.7
25			4.7	19.1
B.C. 25+43.08			7.0	16.8
25+50			7.9	15.9
25+65			6.5	17.3
+75			4.5	19.3
26+0			4.5	19.3
26+25			5.2	18.6
+50			4.9	18.9
+75			2.2	21.6

		P1		
27+0		23.84	0.2	23.6
E.C. 27+16.53			0.2	23.6
T.P	5.22	28.56	0.50	28.34
28+00			5.9	22.7
29+00			5.8	22.8
T.P	10.64	34.28	4.92	23.64
30+00			9.8	24.5
30+50			3.5	30.8
T.P	11.90	44.31	1.87	32.41
31+00			7.1	37.2
31+25			6.1	38.2
31+45			6.3	38.0
31+55=Δ			7.2	37.1
31+75			7.3	37.0
32+00			8.6	35.7
32+50			8.6	35.7
33+00			8.0	36.3
33+25			7.7	36.6

		H.I 44.31		
33+50			6.2	38.1
3 T.P	8.54	44.82	8.05	36.28
34+00			4.2	40.6
34+15			7.0	37.8
34+50			4.9	39.9
Intersection ▷			3.6	41.2
				T.P
T.P.	1.485	37.765		36.28
T.P.	2.645	29.18	16.23	26.535
				B.M 22.94
			6.31	22.87



Change in Location of North End of San Antonio St

So Playa

0.14	46.09		45.95	BM H Cent Sd Pd 175
0.41	34.40	12.10	33.99	
3.19	24.58	13.01	21.39	H a PL
2.68	17.93	9.33	15.25	
2.73	12.56	8.10	9.83	BM H NW bar Perry San Antonio

Center Line of Perry St (50')

WL		2.3
bl		4.6
"		6.5
C		8.2
"		9.8
bl		11.1
EL		12.5

POSTED

1256

N ¼ of Perry St

Et	12,9
bh	11,4
y	10,3
b	8,5
y	6,6
bh	4,6
wh	2,1

N bh of Perry St

wh	2,2
bh	5,0
y	6,9
b	9,0
y	10,6
bh	11,5
Et	13,1

1256 San Antonio

N Sin of Perry St

Et	13,4
bh	12,3
y	10,8
b	9,5
y	7,5
bh	4,9
wh	1,9

N Sin Perry } Sin "a"
14' W of Perry }

wh	1,9
bh	4,8
y	7,5
b	9,4
y	10,9
bh	12,5
Et	13,5

12.56

	50'	n of	Perry St	
EL			15,8	
bk			13,6	
y			12,5	
b			9,5	
y			7,7	
bk			4,3	
WL			1,6	
	100'	n of	Perry St	
WL			0,0	
bk			2,5	
y			5,0	
b			7,4	
y			10,5	
bk			14,0	
EL			16,0	

12.56 San Antonio

64

	150'	n		
EL			16,0	
bk			14,0	
y			11,7	
b			7,0	
y			4,2	
bk			1,7	
TD	9,66	20,36	1,86	10,70
WL			6,4	
	175'	n of	Perry	
WL			6,7	
bk			8,9	
y			11,4	
b			14,2	
	200'	n of	Perry St	
WL			3,0	
bk			7,8	
y			11,5	
TD			13,0	

POSTED

2036

	225'	n of	Perry	
wh			4,7	
bh			7,4	
4			10,4	
+5			12,0	
n	250	n of	Perry	
wh			0,4	
bh			5,3	
4			9,5	
+7			11,5	
TP	540	2073	5,03	15,33
	275'	n of	Perry	
wh			1,0	
bh			5,2	
+10			8	

2073 San Antonio st

Line "B" 14' S of Quantrough st 65
288' n = S d " on E

wh			0,5
bh			4,8
+10			7,0

S Line of Quantrough st 50'

wh			1,3
bh			5,4
4			9,0

S bb of Quantrough st

wh			0,2
bh			7,4
4			9,5

S 1/4 of Quantrough st

wh			1,2
bh			7,2
4			10,7

2073

Center of Quantrough St

wl	1,6
bl	8,2
4	11,4

N 1/4 of Quantrough

wl	1,6
bl	8,2
4	10,4

N bl of Quantrough

wl	0,5
bl	7,5
4	9,5

N Line of Quantrough

wl	0,2
bl	6,9
4	9,0

2073 San Antonio St

Line "C" = { wl Quantrough on W / 14' N " " E }

66

wl			0,2	
bl			6,7	
4			9,0	
TD	6,41	21,66	5,48	15,25

25' N of Quantrough

wl	0,0
bl	6,4
4	8,3

50' N of Quantrough

wl	+1,0
bl	5,8
4	9,5

75' N of Quantrough

wl	0,3
bl	7,2
4	12,5
+7	13,5

2166

	100'	n of	Quantrough
wt			1,4
bh			7,0
4			10,4
	125	n of	Quantrough
wt			1,7
bh			8,2
4			11,2
	150'	n of	Quantrough
wt			1,0
bh			10,0
4			13,0
	175'	n of	Quantrough
wt			1,6
bh			5,5
4			11,0

2166 San Antonio

	200'	n of	Quantrough
wt			1,6
bh			5,3
4			11,0
	225	n	
wt			1,6
bh			6,0
4			10,8
b			15,0
	250'	n of	Quantrough
wt			3,1
bh			6,6
4			10,6
b			14,0
	288	n = Line "D"	
wt			3,9
bh			4,6
4			7,8
b			9,7

POSTED

2166

S Line Rodgers St 52

WL	3,7
bb	4,6
4	7,0
6	13,2

Sbb of Rodgers St

WL	3,0
bb	4,6
4	6,5
6	9,6

S 1/4 of Rodgers

WL	2,8
bb	4,8
4	5,7
6	8,1
4	10,0
bb	11,7

Strays to down

2166 San Antonio

Center of Rodgers St

WL	2,5
bb	4,8
4	5,4
6	7,2
4	9,0
bb	11,0

N 1/4 of Rodgers

WL	1,9
bb	4,8
4	7,8
6	6,8
4	8,7
bb	10,2

21.66

	N bk of	Rodgers	
Wh		1,0	
bh		4,0	
y		4,5	
b		6,2	
y		8,6	
bh		10,3	
	N L = SL PL	175	
Wh		0,3	
bh		4,4	
y		4,4	
b		7,0	
y		8,1	
bh		10,5	
	Straight down		

San Antonio

	175	n of	Perry st		BM H Perry
	0,50	10,33		9,83	
EL			14,0		
bh			13,2		
y			12,0		
	200	n of	Perry		
EL			15,0		
bh			14,0		
y			12,0		
b			6,8		
	225	n of	Perry		
EL			13,6		
bh			15,0		
y			15,2		
b			9,6		

10.33

250' n of Perry

EL			13.5
bh			13.4
4			14.5
b			11.0
TP	4.28	1.66	12.95

288' n = Sin B SL Quarter on E 14' S on W

EL			7.0
bh			6.5
4			6.4
b			6.0
4			0.0

SL of Quantrouge

EL			6.9
bh			6.4
4			6.2
b			5.6
+10			1.0

1.66 San Antonio

S bb of Quantrouge

EL			6.9
bh			6.9
4			6.4
b			6.2
+12			3.4

S 1/4 of

EL			6.9
bh			6.9
4			6.5
b			6.2
+10			3.0

Center of Quantrouge

EL			6.9
bh			6.9
4			6.5
b			6.2
+10			3.2

N 1/4 of Quantrouge

Et	6.9
bh	6.9
y	6.4
b	6.2
+80	3.0

N bh of Quantrouge

Et	6.9
bh	6.8
y	6.6
b	6.2
+8	2.6

N Sine of Quantrouge

Et	6.9
bh	6.8
y	6.2
b	4.6
+8	2.4

14' N on E = Sine "b"

Et	6.9
bh	6.8
y	5.2
b	4.3
+6	2.0

50' N of Quantrouge

Et	7.3
bh	7.1
y	6.0
b	3.5

100' N of Quantrouge

Et	7.0
bh	6.9
y	7.2
b	2.0

150' n of Quantrough

Et	7,8
bl	7,9
4	7,4
b	4,0

200' n of Quantrough

Et	8,0
bl	7,4
4	5,5
b	2,0

250' n of Quantrough

Et	7,6
bl	6,3
4	4,3

288' n = Sin "D" S Sin of Rodgers on E

Et	7,3
bl	5,8
4	2,6

S Sin of Rodgers

Et	7,2
bl	5,8
4	2,0

S bl of Rodgers

Et	7,2
bl	5,5
4	0,0

S 1/4 of Rodgers

Et	7,2
bl	5,0

Center of Rodgers

Et	7,0
bl	5,0

N 1/4 of Rodgers

Et	6,8
bl	4,8

1.66

2 lb of Rodgers

Ex 6,6

lb 4,0

2 Line of Rodgers = 52 P.S. 175

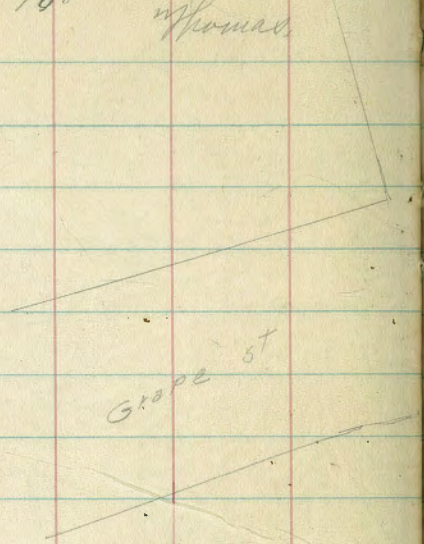
Ex 6,4

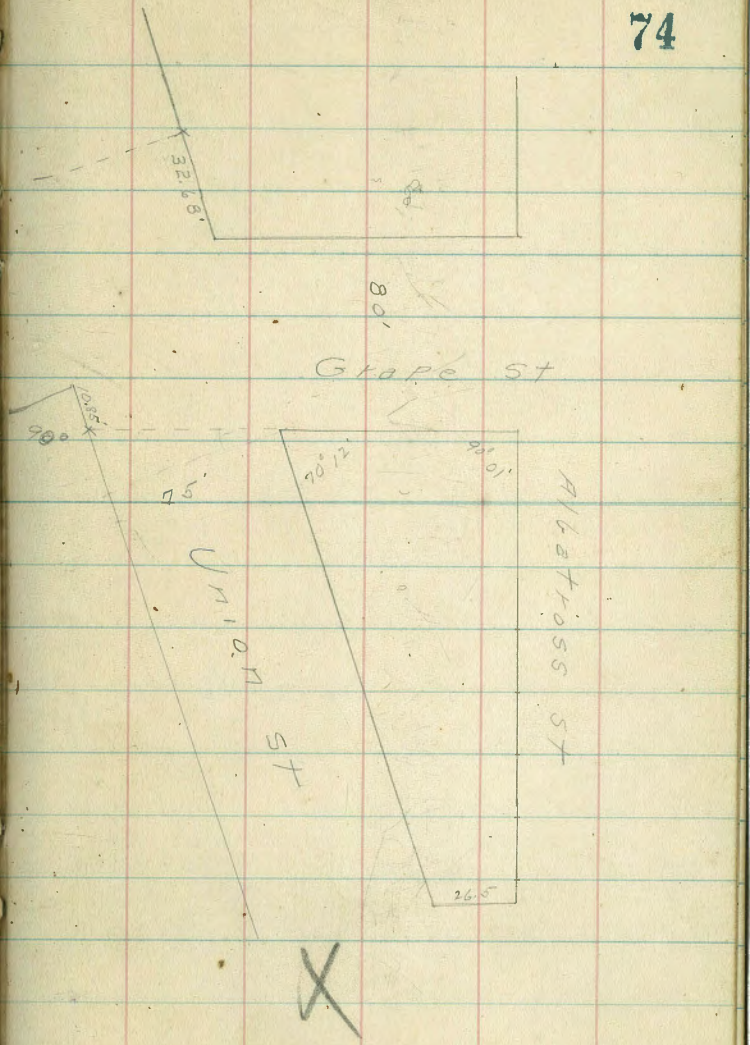
lb 4,0

Straight wh

POSTED

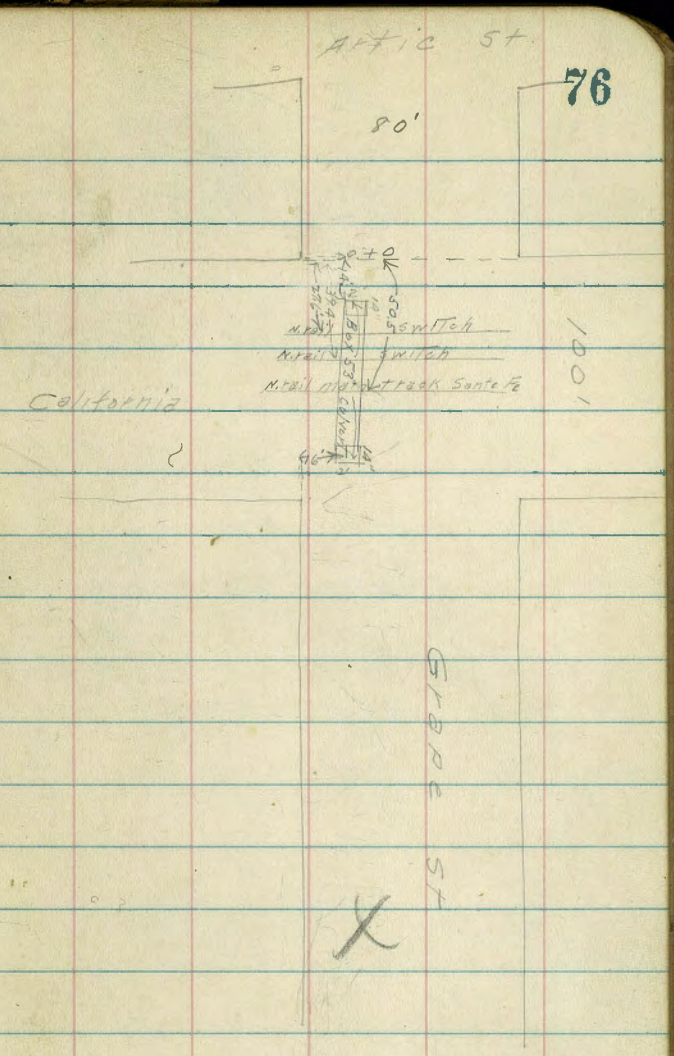
12/29/08 Dunfee Sham Thomas





Levels for storm sewer on Grape st
E.L. California to Bay — 12/29/08 — Dunkle, Shaw, Thomas.
Levels taken on lines 14' & 24' N of center

B.M. brass plg S.W. cor India & Grape				44.02	
B.M.	1.06	45.08		44.02	
T.P.	0.54	33.16	12.46	32.62	
T.P.	0.90	21.15	12.91	20.25	
0+0 = E.L. Calif					
14' N of ctr			3.3		17.9
24' " " "			2.1		
0+14 = E. End box culvert					
24' N of C = center bottom culvert			4.0		
+14 " " "			1.9		19.3
0+25				X	
14' N of C			2.4		18.8
24' " " "			2.4		
0+27.6 = N. rail of 1st switch					
24' N. of C			2.2		
0+39.4 = N rail 2nd switch					
24' N. of Ctr			2.5		
0+49.5 = S. rail main track					
24' N of ctr			2.2		



21.15

0+50 = center Calif

14' N of ctr Calif	2.8	18.6
24' " " "	2.7	
0+67 = W. end box culvert		
24' N of ctr bottom Culvert	8.3	
14' " " "	5.2	16.0
0+75		
14' N of C	6.8	14
24' " " "	7.8	
1+0 = W. L. Calif		
14' N of ctr	6.0	15.2
24' " " "	7.5	
1+25		
14' N of ctr	4.8	16.4
24' " " "	6.3	
1+40		
14'	5.1	16.1
24'	6.2	
1+44		
14'	9.4	11.8
24'	9.9	
1+50		
14'	11.2	10.0
24'	11.5	
1+62		
14'	9.8	11.4
24'	10.5	
1+65		
14'	7.0	14.2
24'	7.2	
1+75		
14	7.5	13.7
24	7.9	

		21.15				9.07	
		2+0				3+04	
14' N of ℄			9.1	12.1	14' N of ℄	5.9	3.2
24' " " "			9.7		24' " " "	5.9	
		2+25				3+08	
14'			10.9	10.3	14'	11.8	-2.7
24'			11.1		24'	11.4	
		2+50				3+25	
14'			12.7	8.5	14'	13.7	-4.6
24'			12.7		24'	13.8	
T. P.	0.87	9.07	12.95	8.20			
		2+75					
14'			2.4	6.7			
24'			2.1				
		3+0					
14'			4.7	4.4			
24'			4.5				

Levels on "A" Line Pt Loma Blvd from Hemet to St to Silver Gate Ave

	5.42	255.26		249.84	BM
255.26 12.27 242.99 0.76 243.75 12.92 230.83 4.04 234.87		12+12.6		~~14.8~~	
	S	234.87		14.8	220.1
	C			13.1	221.8
	N			10.8	224.1
		12+50			
N		234.87	5.8		229.1
C			9.6		225.3
S			12.8		222.1
		13+00			
N		243.75	3.3		240.5
C			7.9		235.9
S			12.0		231.8
		13+25			
S		255.26	17.2		238.1
C			11.2		244.1
N			3.8		251.5

	13+50			
N		255.26	-0.5	254.8
C			5.0	250.3
S			15.0	240.3
	13+75			
S			14.9	240.4
C			10.4	244.9
N			5.8	249.5
	13+84.8 = P.T.			
N			10.7	244.6
C			12.5	242.8
S			14.8	240.5
	14+00			
S			15.4	239.9
C			14.8	240.5
N			10.9	244.4

			14+50 Hil.							17+00		
N			25576		5.9	244.4	E			25807	16.8	241.3
C.					8.3	247.0	C				13.3	244.8
S.					11.2	244.1	N			17+25	9.4	246.7
			14+75				N				5.6	255.5
S.					2.2	253.1	C				8.1	250.0
C					7.0	248.3	E				28.7	247.4
N					8.8	246.5				17+50		
T.P	7.09	258.07	4.28	250.98			E				10.9	247.2
			14998				C				9.1	247.0
E.					2.5	250.6	N			25807	7.7	250.4
C.					1.5	256.6				18+00		
N.					7.0	265.1	N			25807	7.3	246.8
			15+50				C				13.9	244.2
N					6.0	257.1	E				15.3	244.8
C					10.1	249.0	T.P	1.18	246.87		12.38	245.69
E					16.3	241.8				18+50		
			16+00				N				4.2	247.9
E					13.5	244.6	C				5.8	241.1
C.					8.6	249.5	E				12.4	243.5
N.					4.4	253.7				19+00		
			16+50				E				10.9	236.0
N					4.2	253.9	C				8.6	238.3
C					10.4	247.7	N.				7.1	239.8
E					16.5	241.6						

19+48.5 Prob Cr.

W.	24687	8.6	236.3	
C		10.0	236.9	
E		12.5	234.4	
	20+00			
E		11.9	235.0	
C		10.1	236.8	
W.		9.4	239.5	
	20+50			
W		7.8	239.1	
C		9.9	237.0	
E		11.9	235.0	
	20+60 = break			
E	24687	11.6	235.3	
C		9.9	237.0	
W.		9.9	239.0	
T.P.	5.77	243.59	9.05	237.82
	20+65			
E		13.3	230.3	
C		10.4	233.2	
W		11.1	232.5	
	21+00			
E		14.4	229.2	
C		14.3	229.3	
W.		11.8	231.8	

243.59

21+25

W			7.2	236.6
C			10.6	239.0
E			12.1	231.5
	21+35			
E			9.2	234.4
C			2.8	240.8
W			9.8	237.8
	21+50			
W			0.2	243.4
C			2.6	241.0
E			8.5	235.1
	22+00			
E		24359	6.3	237.3
C				
T.P.	1.53	255.11	0.01	243.58
E			11.7	243.4
W			9.1	246.0
	22+50			
W			2.9	252.2
C			4.0	251.1
E			7.8	247.3

		755.11									
T.P.	8.90	762.90	W	754.00				24+72.9			
		23+00				W		762.90	4.9	758.0	
						C			12.1	750.8	
E				8.1	754.8	E			18.2	744.7	
C				6.7	756.2						
W				5.0	757.9			25+00			
		23+50				E			17.5	745.4	
									10.5	752.4	
W				3.3	759.6	W			3.5	759.4	
C				9.6	753.3						
E				13.4	749.5			24+50			
		23+65				W			7.8	760.1	
						E			8.2	753.7	
E				10.9	756.0	E			14.1	749.8	
C				5.7	751.2						
W				3.5	759.4			26+00			
		24+00				E		762.90	10.2	752.7	
									2.5	760.4	
W				5.0	757.9	C	T.P.	12:35	2.08	760.82	
C				7.3	755.6	W			7.2	756.0	
E				9.6	753.3			26+50			
		24+50				W			5.0	764.2	
E				16.5	746.4	C			7.5	765.6	
C				11.2	751.7	E			14.8	758.3	
W				5.9	757.0						
								27+00			
						E			7.0	764.2	
						C			5.9	765.3	
						W			4.2	769.0	

		27+50						30+50			
W		273.17		4.4	268.6	W			8.2	277.3	
C				7.0	266.9	C			9.9	277.6	
E				9.8	263.4	E			11.8	270.1	
		28+00						30+60			
E				9.7	263.5	E			12.4	271.4	
C				7.0	266.2	C			9.7	277.9	
W				4.5	268.7	W			8.3	277.7	
		28+50						31+00			
W				3.7	268.5	W			5.8	276.7	
C				5.7	267.6	C			6.5	276.0	
E				9.6	263.6	E			7.6	277.9	
		29+00						31+50			
E		273.17		7.6	265.6	S		282.45	4.5	278.0	
C				4.5	268.7	E			2.5	280.0	
T.P.	1306	282.45		5.78	269.39	T.P	1280	293.37	1.88	280.57	
W				11.1	271.4	W			12.1	269.3	
		29+50						32+00			
W				14.5	271.0	W			6.8	286.6	
C				13.5	269.0	E			7.5	285.9	
E				16.3	266.4	S			7.7	285.7	
		30+00						32+50			
E				14.3	268.4	S			2.4	291.0	
C				11.9	270.6	E			1.7	291.7	
W				10.5	271.0	W			0.4	293.0	

		293.37		
T.P.	9.82	302.17	10.2	292.35
		33400		
N			5.9	987.5
E			6.5	986.9
S.			7.9	985.5
		33450		
S.			4.6	988.8
E			3.7	989.7
N			2.2	991.2
			12.6	289.55

26.74
3.19
23.55

23.55
8.70
32.25

23.21
3.53
26.74

37.12
10.43
26.69

50.18
11.39
38.79

26.69
2.88
29.57

37.14
34.36
2.78

18.98
1.33
20.31

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