[illegible]

[illegible] SECTION B ST [illegible]

[illegible]HANGING D ST [illegible]

[illegible] SEC[illegible] 13

[illegible] K ST EXTENSION 14

[illegible]ORRENTO ROAD (Continued & Levels) 20

[illegible]ureka Pacific Beach 31

[illegible]arbage Wharf [illegible] 39

45

LEVEL BOOK

3702N

[illegible]R. Track - Foot 5th St. 49

F.B. 96

...g the difference of latitude and departure in running ...hains at any course from 1 to 60 minutes.

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

MICROFILMED DEC 1964

Minutes.	Links.	Minutes.	Links.	Minutes.	Links.
1		21	49	41	95⅔
2		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

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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

5.80
3.60
29.20
17.60
20.470
27.63
47,80

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

Sept 13-98

Survey road at Lockyers Ranch through acre lot No 6-

Beg at cor 1 of Lot 6, thence runng N 35° 15' E mag along the West line of lot 6 275 feet, at 200 feet South Bank creek, at 250 ft North Bank creek-

Thence runng S 59° 15' E mag 290 feet to Cor No 3

Thence runng N 76° E mag 310 ft to Cor No 4

Thence runng S 65° 45' E mag 345 to Cor No 5

Thence runng S 80° E mag 185' to Cor No 6-

Thence runng S 85° E mag 151 to Cor No 7 and North line Lot 6, this point is 39 feet from Cor of Lot No 5

From Cor 4 the line crosses the line Bet Lots 5-6 at 53 feet from Cor 4-

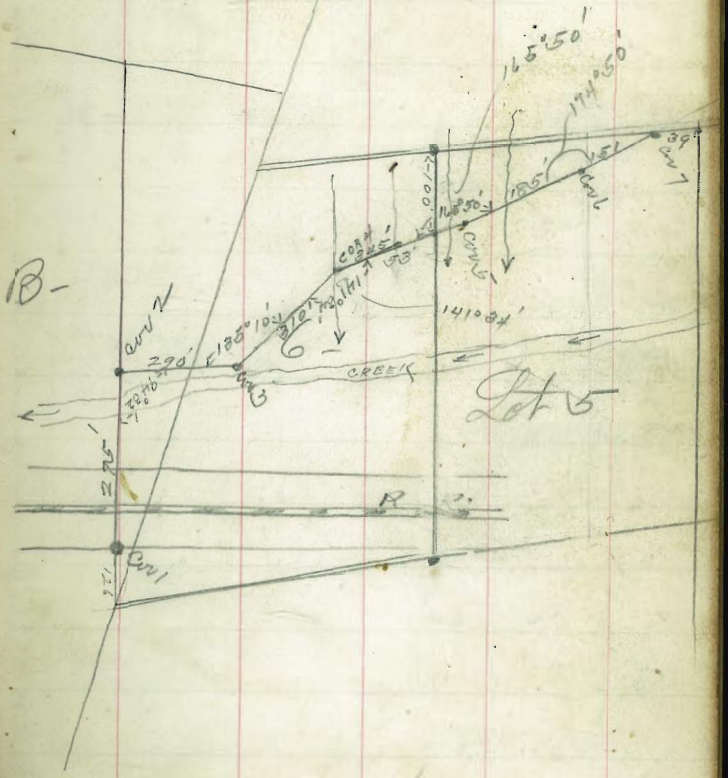
290
310
345
185
151
1281

2

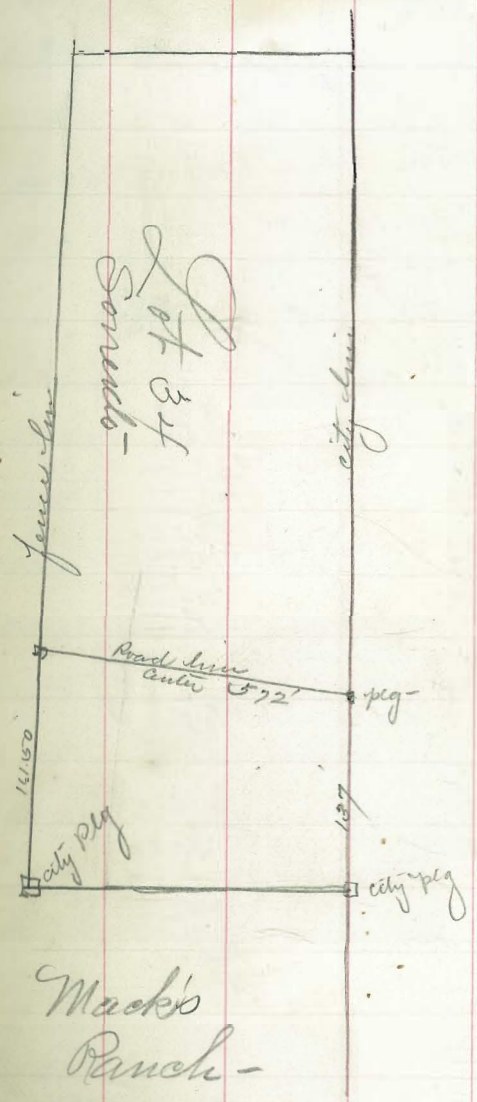
2

Torento—

Soledad Valley



over


Lot 34
Sorrento
fence line
city line
Road line
center
572'
peg
141.50
137
city peg
city peg
Mack's
Ranch

B.M. on leg of Bent in R.R.
trestle 47.70

76.50 B.M. spk in tel pole 32nd
1.73
78.23
68.98
9.25
2.90
6.35

78.23
66.04
12.19
.7
5.19

78.23
11.70
66.53
1.25
67.78
10.71
57.07
2.57
59.64
52.82
6.82

59.64
57.22
2.42

59.64
55.73
3.91

59.64
54.28
5.36

59.64
51.36
8.28

59.64
49.90
9.74

59.64
48.43 B.M. spk driven in post to R.R.
11.21 trestle

48.43 B.M.
1.09
49.52
46.96
2.56

49.52
45.50
4.02

49.52
43.99
5.53

49.52
42.52
7.00

49.52
41.08
8.44

49.52
39.60
9.92

39.60
0.67
40.27
36.66
3.61

40.27
33.75
6.52

40.27
30.80
9.47

30.80
2.64
33.44
27.33
6.11

76.50 B.M.
3.13
79.63
68.98
10.65

Cemetery Road

Sept. 27-98

Stat		Grade		grade
0+0		76.33		
25		74.86		
75		71.92		
1+25	West line 32nd	68.98	ANGLE	+7.00
+75		66.04		+9.30
2+25		63.10		+12.30
+75		60.16		+14.50
3+00		58.69		+13.30
+25		57.22		+10.10
+50		55.73		+7.80
+75		54.28		+7.60
4+00		52.82		+6.30
25		51.36		+3.00
50		49.90		−3.60
75		48.43		
5+00		46.96		
25		45.50		

Grade 5.87%

7.65
5.85
1.80

27.33
7.65
34.98
1.16
33.82
11.90
45.72
.94
44.78
6.14
50.92

4.75
1.8
2.95

5.85
.40
2.3400

5.85
2
11.60
27.33
38.93
5.85
44.78
2.92
47.70

45.72
38.93
6.79
2.34
4.45
50.92
47.70
3.22

45.72
44.78
.94

75.00 B.M. M - 30th
7.61
82.61
4.70
77.91
4.14
82.05
5.55
76.50 B.M spk in tel pole 32 M

Dec 3 - 98

Setting finishing stakes

24.44 B.M Bath house
7.60
31.44
27.33
4.11 Center Rod
.70
4.81 Side

Cemetery Road

4.50
.25
4.75
1.25

75
6.0
8.35
5

~~Crown~~
~~Grade~~

Stat		Grade		
50		43.99		
75		42.52		(29.74)
6+00		41.08	angle point	+14.28 2.9
25		39.60		-14.10 4.2
75		36.66		-10.37 3.4
7+25		33.75		-8.55 4.5
+75		30.80		-7.10 6.00
8+35	End of 5.85 g	27.33		-3.53 5.90
+75		27.33		-3.43 5.80
9+25		27.33		-3.93 6.30
+75		27.33		-3.73 6.10
10+25		27.33		-3.23 5.60
+75		27.33		-3.03 5.40
11+25		27.33		-3.13 5.50
+75		27.33		-2.93 5.30
12+25		27.33		-2.83 5.20
+75		27.33		-3.03 5.40

grade 5.87%

Cemetery Road

B. M. 24.44 on East door sill, and on the east end of the sill —

24.44
5.30
29.74

Elev of top of posts to abutments 25.80

Elev of the surface of the floor of Bridge 27.80

24.44
3.20
27.64
25.80
1.84

24.44
5.10
29.54
27.33
2.21
set long stakes

7.65

24.44 B.M.
7.11
31.55
4.75
26.80
2.06
28.86
5.53
23.33

Setting Culvert on Cemetery Creek.

28.86
6.67
22.19

NW
29.00
22.19
6.81

NE
29.00
22.01
7.00

SW
29.00
22.01
7.00

SE
29.00
23.33
5.67

28.86
6.85
22.01

28.86
7.91
20.95

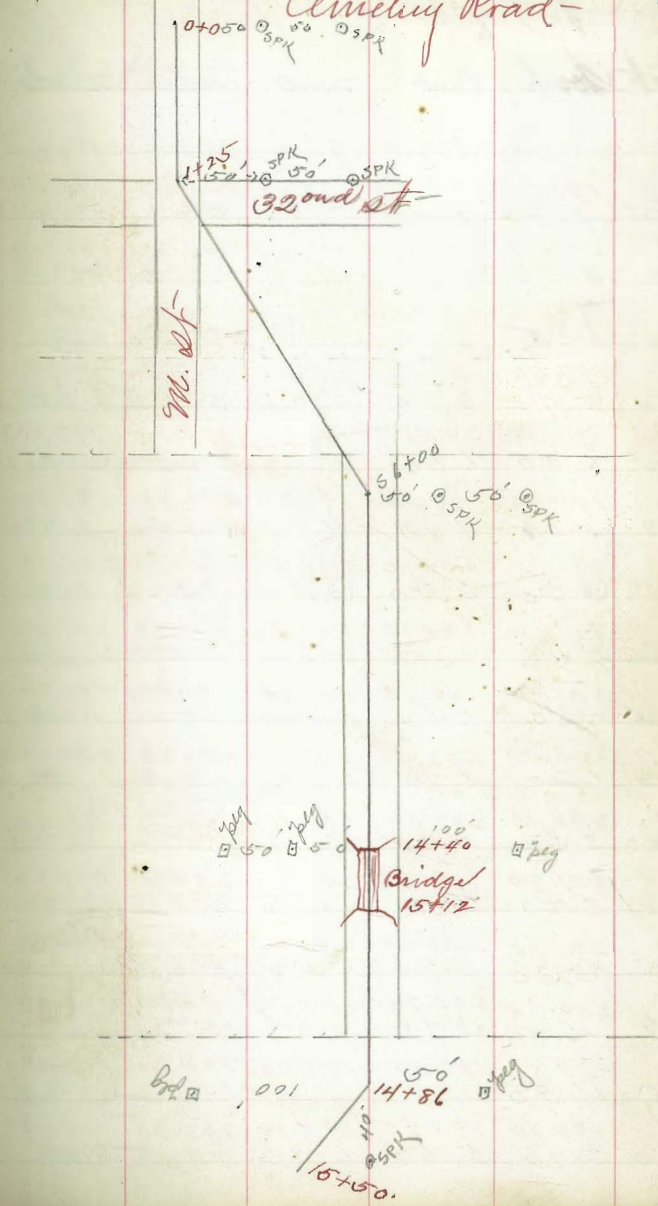
28.86
3.30
56

NW
29.00
20.95
8.05

Sta		Grade	
13+25		27.33	-3.63
+50			6.00
14+00		27.33	-3.63
			6.00
			-4.03
+40	WEST END OF BRIDGE	27.80	6.40
			-5.83
			8.20
			-7.83
	Creek bottom		10.20
			-5.53
15+12	EAST END OF BRIDGE	27.80	7.90
+75			
15+25		27.33	
+75		27.33	
16+11	Angle Pt	27.33	Breaks grade
+50	First line	25.50	Hoffman st

14.40
12
15.12

Cemetery Road



D. St 20th to 25th

Oct 21 1898

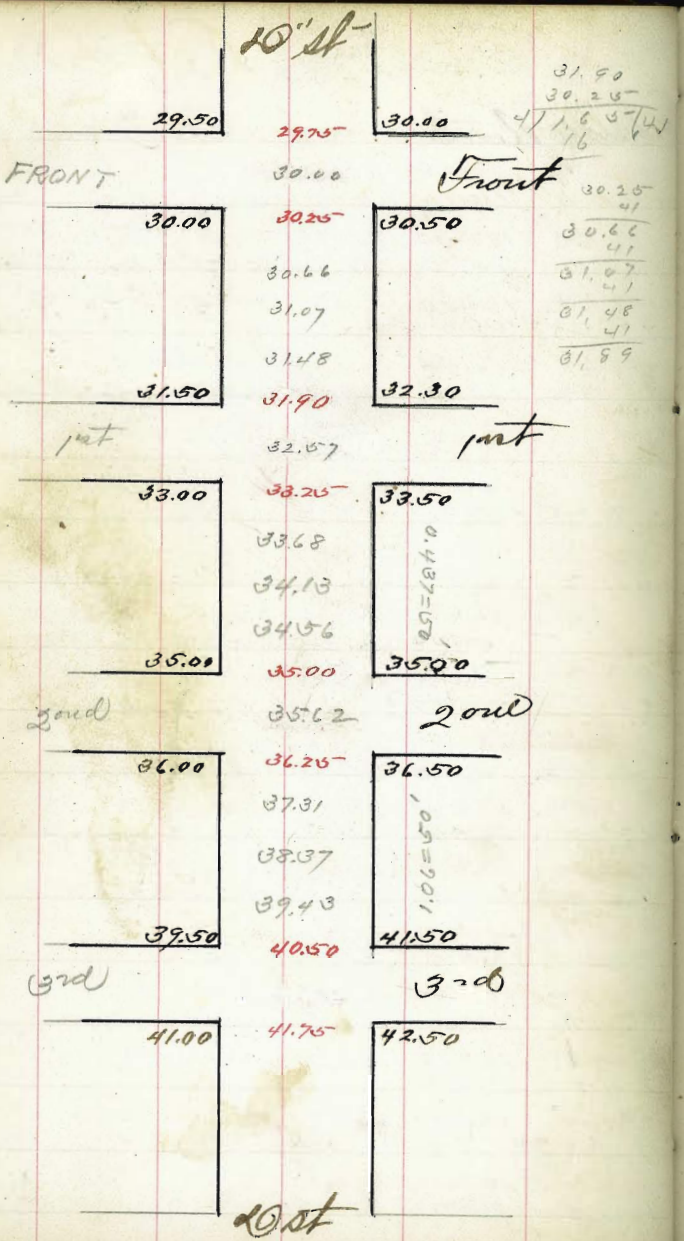
Stat	South	Cent	mid	Centre	mid	Cent	North
	194.90	195.10	193.90	(203.54) 194.70	195.70	195.00	195.10
0+0	8.60	8.40	9.60	8.80	7.80	8.50	8.40
	195.70	196.10	195.60	195.40	195.40	195.50	195.70
25	7.80	7.40	7.90	8.10	8.10	8.00	7.80
	195.50	195.90	196.10	196.00	196.30	196.90	197.10
50	8.00	7.60	7.40	7.50	7.20	6.60	6.40
	196.70	196.90	196.80	196.90	196.70	196.70	197.00
75	6.80	6.60	6.70	6.60	6.80	6.80	6.50
	197.60	197.50	197.50	197.60	197.50	197.60	197.80
1+00	5.90	6.00	6.00	5.90	6.00	5.90	5.70
	197.50	197.50	197.90	198.00	198.00	198.50	198.70
25	6.00	6.00	5.60	5.50	5.50	5.00	4.80
	198.50	198.60	198.80	198.90	199.20	199.50	199.50
50	5.00	4.90	4.70	4.60	4.30	4.00	4.00
	199.90	200.10	200.00	200.00	200.30	200.70	200.60
75	3.60	3.40	3.50	3.50	3.20	2.80	2.90
	201.10	201.10	201.30	201.50	201.50	201.70	202.20
2+00	2.40	2.40	2.20	2.00	2.00	1.80	1.30
	201.90	202.10	202.10	201.80	201.90	202.00	202.40
25	1.60	1.40	1.40	1.70	1.60	1.60	1.10
	202.30	202.40	202.50	201.60	202.10	202.30	202.60
50	1.20	1.10	1.00	1.90	1.40	1.20	0.90
	202.10	202.50	202.40	(204.40) 201.10	201.60	201.40	202.30
75	2.30	1.90	2.00	3.30	3.10	3.00	2.10
	201.70	201.80	201.90	200.40	200.20	200.30	201.90
3+00	2.70	2.60	2.50	4.00	4.20	4.10	2.50
	201.10	201.40	201.40	199.40	198.90	198.50	200.00
25	3.30	3.00	3.00	5.00	5.50	5.90	4.40
	200.40	200.70	199.50	198.80	198.30	198.10	198.60
50	4.00	3.70	4.90	5.60	6.10	6.30	5.80
	199.90	199.70	199.70	198.00	197.30	196.60	197.60
75	4.50	4.70	4.70	6.40	7.10	7.80	6.80
	198.70	198.90	198.10	196.70	196.30	196.20	196.90
4+00	5.70	5.50	6.30	7.70	8.10	8.20	7.50

191.46 BM 25 E
12.08
203.54
1.34
202.20
2.20
204.40

B. St. 20' to 25'

Stat	South	Curb	mid	Center	mid	Curb	North	
	197.90	197.70	196.70	195.00	194.70	194.90	195.50	
25	6.50	6.70	7.70	9.40	9.70	9.50	8.90	
	196.30	196.50	195.50	193.70	193.70	193.80	194.70	
50	8.10	7.90	8.90	10.70	10.70	10.60	9.70	
	194.90	195.20	194.70	192.40	192.40	192.20	193.30	
75	9.50	9.20	9.70	12.00	12.00	12.20	11.10	
	192.90	193.20	192.90	190.60	190.30	190.70	191.40	
5+00	11.50	11.20	11.50	13.80	14.10	13.70	13.00	
	191.30	190.80	190.70	(193.08) 190.10				
25	1.80	2.30	2.40	3.00				
	189.40	189.10	189.60	188.30				
50	3.70	4.00	3.50	4.80				
	186.80	187.30	187.50	186.30				
75	6.30	5.80	5.60	6.80				
	185.10	185.30	185.00	183.70				
6+00	8.00	7.80	8.10	9.40				East line 24th st
	183.60	183.90	183.70	182.10				
10	9.50	9.20	9.40	11.00				
	183.00	182.60	182.20	181.40	180.60	180.60	180.60	
30	10.10	10.50	10.90	11.70	12.50	12.50	12.50	Center line 24th
	180.50	180.20	180.20	(183.48) 180.00	179.70	178.70	178.40	
50	3.00	3.30	3.30	3.50	3.80	4.80	5.10	
	180.00 3.50 on curb (Cement)							
		179.50	179.40	178.60	177.70	177.30	177.10	
0+0	177.50 6.00	4.00	4.10	4.90	5.80	6.20	6.40	West line 24th
		177.00	176.70	176.20	175.40	175.10	174.10	
25		6.50	6.80	7.30	8.10	8.40	9.40	
	175.00 8.50	175.50	174.80	174.80	173.80	173.40	172.40	
50	172.60 1.50	9.00	8.70	8.70	9.70	10.10	11.10	
		172.10	172.20	(174.06) 172.20	172.30	171.70	170.70	
75	170.10 4.00	2.00	1.90	1.90	1.80	2.40	3.40	
		169.50	169.90	170.50	170.50	170.10	168.90	
1+00	167.60 6.50	4.60	4.20	3.60	3.60	4.00	5.20	
		167.10	167.70	168.10	168.40	167.80	167.30	
25		7.00	6.40	6.00	5.70	6.30	6.80	

204.40
11.98
192.42
0.66
193.08
11.60
181.48
2.00
183.48
10.07
173.41
0.65
174.06



31.90
33.25
65.15
32.57

29.75
30.25
60.00

Oct 25

10

Setting out line for Elect R.R. straightening truck. on 20 st

32.69 B.M Cor 1st
5.03
37.72 37.72 37.72 37.72 37.72 37.72 37.72
31.48 31.07 30.66 32.57 33.25 31.90 30.25
6,24 6,65 7,06 5,15 4,47 5,82 7,47
37.72
30
7.72

37.19 B.M. Cor 2nd
3.67
40.86 40.86 40.86 40.86 40.86 40.86 40.86
36.25 35.62 35.00 34.56 34,13 33.68 33.25
4.61 5,24 5.86 6,30 6,73 7.18 7.61

37.19 B.m Cor 20 = 2nd
3.91
41.10 41.10 41.10 41.10 41.10 41.10 41.10
40.50 39.43 38.37 37.31
0,60 1,67 2,73 3,79

32.69 B.m cor 1st
5.18
37.87 37.87 37.87 37.87 37.87 37.87 37.87
30.25 30.66 31.07 31.48 31.90 32.57 33.25
7.62 7.21 6,80 6,39 5,97 5,30 4,62

37.19 B.m Cor 2nd
3.07
40.26 40.26 40.26 40.26 40.26 40.26 40.26
33.25 33.68 34.13 34.57 35.00 35.62 36.25
7.01 6,58 6,13 5,70 5,26 4,64 4,01

Bl-

Stat	Sonoita	curb	Mid	Center	Mid	Curb	North		
	165.00								
	9.05	164.50	165.70	165.90	165.90	165.70	165.90		
50	165.00	9.60	8.40	8.20	8.20	8.40	8.20	East line 20th ave	
	9.10								
	164.40	164.50	164.90	165.30	165.10	164.90	164.90		
10	9.70	9.60	9.20	8.80	9.00	9.20	9.20		
	164.80	164.50	164.50	164.70	164.20	164.00	163.00		
25	9.30	9.60	9.60	9.40	9.90	10.10	11.10	Center 23rd ave	
	164.30	164.30	164.20	163.90	163.50	163.60	162.20		
40	9.80	9.80	9.90	10.20	10.60	10.50	11.90		
	164.10	163.80	163.50	163.40	162.90	162.80	161.10		
0+00	10.00	10.30	10.60	10.70	11.20	11.30	13.00	West line 23rd ave	
			(163.30)						
	162.70	161.60	160.90	159.80	158.00	157.60	157.90		
25	0.60	1.70	2.40	3.50	5.30	5.70	5.40		
	162.00	160.80	158.60	157.10	154.80	154.70	155.00		
50	1.30	2.50	4.70	6.20	8.50	8.60	8.30		
	162.00	160.90	158.30	155.60	151.70	149.60	(152.77) 149.20		
75	1.30	2.40	5.00	7.70	11.60	13.20	13.60		
	160.60	160.30	158.80	154.40	149.80	146.30	144.20	12 / 6.90	145.90
1+00	2.70	3.00	4.50	8.90	13.50	6.50	8.60		
	158.20	157.90	156.80	151.30	145.60	142.70	139.10	15 / 12.40	140.40
25	5.10	5.40	6.50	12.00	17.20	10.10	13.70		
	155.40	155.20	154.20	149.30	144.00	140.40	136.50	(143.70) 20 / 10.80	132.90
50	7.90	8.10	9.10	14.00	18.80	12.40	16.30		
	153.00	152.80	152.30	151.30	146.80	142.10	137.20	20 / 11.30	132.40
75	10.30	10.50	11.00	12.00	16.00	10.70	15.60		
	150.30	150.00	149.00	148.50	146.60	144.40	140.80	12 / 5.00	138.70
2+00	13.00	13.30	14.30	14.80	16.20	8.40	12.00	East line 22nd st	
	146.64 Sta	146.80	146.80	145.90 (146.76)	145.10	143.60	142.20		
14.00	0.125	0.00	0.00	0.90	1.70	3.20	4.60		
	145.76 Sta	145.70	144.60	143.80	142.90	141.80	140.90	7 / 6.40	140.40
40+	0.80	1.10	2.20	3.00	3.90	5.00	5.90		
	145.46 Sta	144.00	142.60	141.60	141.10	140.70	140.10	8 / 6.90	139.90
66	1.30	2.80	4.20	5.20	5.70	6.10	6.70		
	142.80	141.20	140.60	140.20	139.80	139.50	138.00	12 / 11.00	135.80
0+00	4.00	5.60	6.20	6.60	7.00	7.30	8.80	West line 22nd st	

17406
9.37
16469
3.93
168 62
4.58
16.40 4 on Curb N 11 on 23rd ave

164.00
5.67
16941
6.58
162 83
0.47
163 30
11.05
152 25
0.52
152 77
10.01
142 76
0.94
143 70
94
142 76
4.00
146 76

Stat	South	Cent	Mid	Cente	Mid	Cent	North	Slope	
	141.10	139.30	137.80	136.40	136.10	134.50	132.60	15'	
25	5.70	7.50	9.00	10.40	10.70	12.30	14.20	Fac 3'	129.60
	136.70	137.30	135.20	134.40	132.80	130.30	127.10	20'	
50	8.10	9.50	11.60	12.40	14.00	4.80	8.00	7.00	118.20
	137.10	135.20	133.80	(135.14)	129.00	124.80	(125.24)		
75	9.70	11.60	13.00	131.80	6.10	10.60	118.00	20'	
	135.80	135.20	132.60	3.30			7.20	13.00	112.20
1+00	11.00	11.60	14.20	129.90	126.10	119.90	114.00	25'	
				5.20	9.00	5.30	11.20	6.70	107.00
	133.80	132.40	130.50	128.20	124.70	118.10	111.20	25'	
25	1.30	2.70	4.60	7.00	10.40	7.10	14.00	10.50	103.20
	130.30	129.60	128.00	125.60	122.30	115.50	(118.71)	25'	
50	4.80	5.50	7.10	9.60	12.80	9.70	108.40	13.00	104.70
	128.30	127.50	125.20	123.50	120.90	114.00	106.60	25'	
75	6.80	7.60	9.90	11.60	14.20	11.20	7.10	14.80	98.90
	125.10	125.70	124.90	124.10	123.10	116.80	107.70	25'	(104.92)
2+00	10.00	9.40	10.20	11.00	12.00	8.40	6.00	7.70	97.20
	124.20	124.40	123.30	123.50	122.60	114.90	106.00	25'	
14	10.90	10.70	11.80	11.60	12.50	10.30	7.70	8.00	96.90
	122.70	123.10	123.40	123.10	116.60	112.20	102.40	25'	
40	12.40	12.00	11.70	12.00	8.60	13.00	11.30	11.60	93.40
66									
0+0									

146.7
11.84
134.92
0.22
136.14
11.63
126.51
1.73
126.24
11.71
1136.3
0.18
113.71
11.98
101.73
3.19
104.92

East line 21 wt

Center line

Cross Section — Maple Bef

Stat	North	Dist	Center	Curb	South
	208.50		(208.47) 203.80		206.70
0+0	5.00		4.60		1.80
	195.50		196.60		198.60
50	13.00		11.90		9.90
	186.80		(196.78) 189.30		190.80
1+00	10.00		7.50		6.00
	180.80		184.60		186.80
50	16.00		12.20		11.00
	176.60		(186.63) 181.70		181.80
2+00	9.00		4.40		3.80
	174.00		179.10		179.50
40	11.60		6.50		6.10
	161.00	(174.68)	177.00		177.80
0+0	13.70		8.60		7.80

Front - Albatross

Nov 27-96

West line Front	209.59
	3.58
West line Front	213.17
	8.58
	204.59
	8.88
	208.47
	11.76
	196.72
	0 0.6
	196.78
	11.82
East line Albatross	184.96
	0.67
	185.63
	11.76
	173.88
	0.80
West line Albatross	174.68

Extension K" St - provisional Nov 29-98

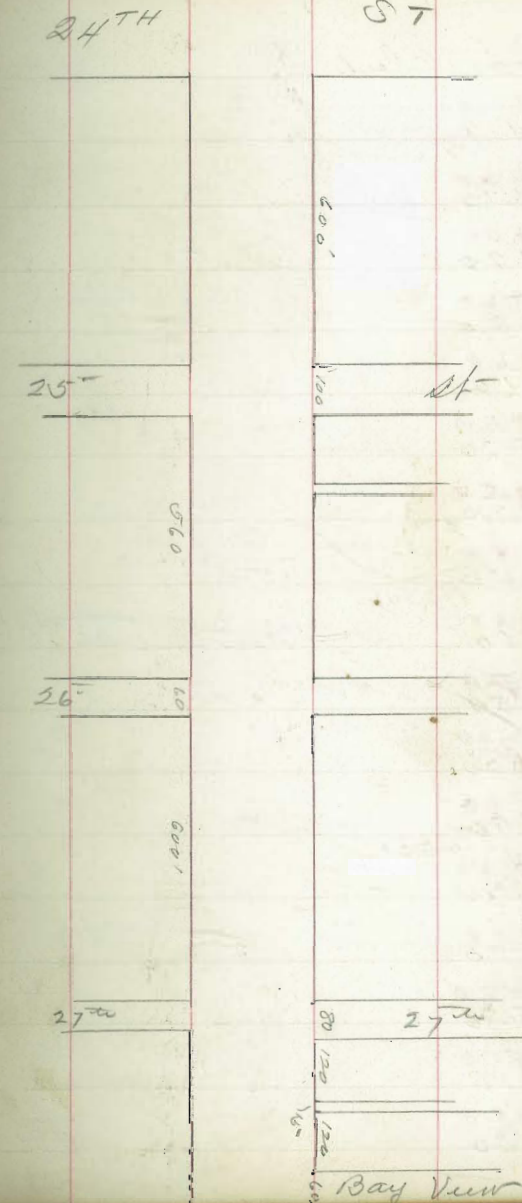
road to 30th sheet

Stat	Rod	Elev.
	(79.65)	
0+0	77.10 / 2.60	
+62	74.30 / 5.40	
1+12	73.80 / 5.90	
+62	73.40 / 6.30	
2+12	71.30 / 8.40	
+62	70.30 / 9.40	
3+12	70.90 / 8.80	
+62	71.80 / 7.90	
4+12	72.50 / 7.20	
+62	72.70 / 7.00	
5+12	74.30 / 5.40	
+62	75.80 / 3.90	
	(85.17)	
6+12	77.10 / 8.10	
+62	77.80 / 7.40	
7+12	78.50 / 6.70	
+62	79.50 / 5.70	

0+0 = East line 24th

67.86 BM
10.23
78.09
2.01
76.08
3.57
79.65
3.45
76.20
8.97
85.17

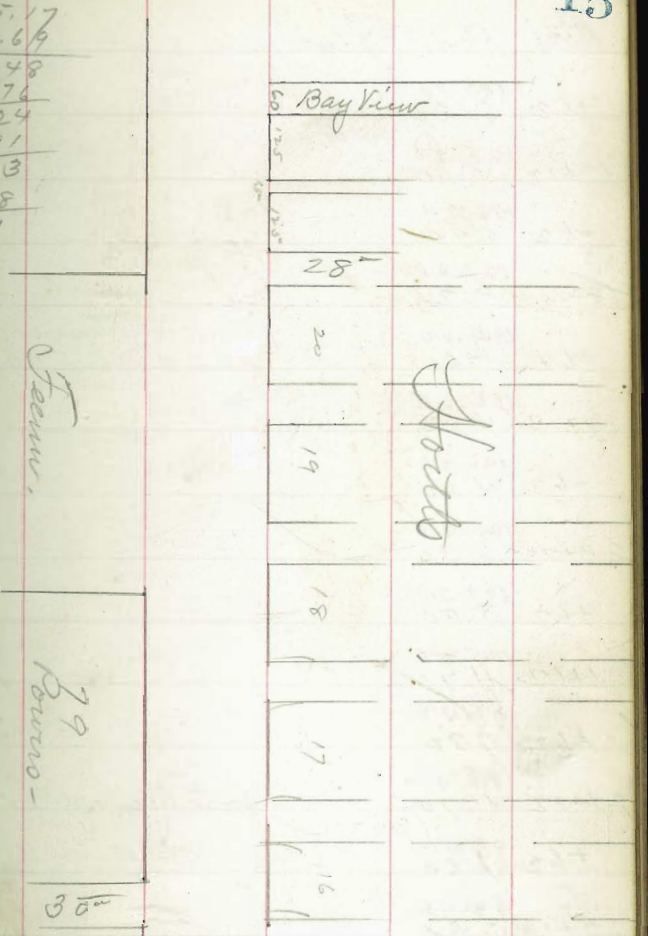
S7+12 is 10' E of E line 25th sheet



14

Stat	Rod	Elev	
	81.00		
8+12	4.17		
	80.50		
+62	4.70		
	81.00		
9+12	4.20		Culvert
	81.00		
+62	4.20		
	79.60		
10+12	5.60		
	79.90		
+62	5.30		
	80.50		
11+12	4.70		
	82.80		
+62	2.40	(96.24)	
	87.60		
12+12	8.60		West line 26' Rt
	89.70		
+62	6.50		
	92.00		
13+12	4.20		
	95 30		
+62	0.90	105.21	
	97.50		
14+12	1.70		
	99.00		
+62	6.20		
	100.00		
15+12	5.20		
	102.10		
+62	3.10		
	103.90		
16+12	1.30		

85.17
0.66
84.48
11.76
96.24
1.91
94.33
10.88
105.21



Stat	Rod	Elev	
	105.00		
+62	0.20	(110.20)	
17+12	105.20		
	6.00		
	103.30		
+62	6.90		
	102.00		
18+12	8.20		
	104.60		Northside —
+62	6.60		10'W of W line 27
	106.20		
19+12	4.00		
	106.20		
+62	4.00		
	103.90		
20+12	6.30		
	102.20		
+62	8.00		
	105.50		
21+12	4.70		
	102.40		
+62	7.80		
	98.50		
22+12	11.70		West line Bay View Ave
	95.00	(99.57)	
+62	4.60		
	92.40		
23+12	7.20		
	90.80		
+62	8.80		
	88.60		
24+12	11.10	(90.38)	
	85.80		
+62	4.60		

105.21	
1.16	
104.06	
6.14	
110.20	
11.97	
98.23	
1.34	
99.57	
11.49	
88.10	
2.28	
90.38	

Stat	Rod	Elev	
25+12	78.50 11.90		Ravine
+62	80.50 9.90		
26+12	81.30 9.10		
+62	82.60 7.80		
27+12	84.40 6.00		
+62	86.20 4.20		
28+12	86.90 3.60		
+62	85.80 4.60		
29+12	84.60 5.80		
+62	83.40 7.00		
30+12	82.50 7.90	(84.28)	
+62	81.60 2.90		
31+12	80.30 4.00		
+62	78.60 5.70		
32+12	77.20 7.10		
+62	76.00 8.30		10' E of E line 29th St
33+12	74.90 9.40		

90.38
7.97
82.41
1.187
84.28

Stat	Rod	Elev
62	74.16 10.20	
34+12	73.20 11.10	
+62	73.00 11.30	(77.54)
35+12	72.50 5.00	
+62	71.80 5.70	
36+12	71.30 6.20	
+62	71.10 6.40	
37+12	71.40 6.10	
+62	71.40 6.10	
38+12	72.10 5.40	
40 +52	72.00 5.50	W line 30th st + K

84.28
10.66
73.62
3.92
77.54
5.00
72.54
6.40
78.94
4.06
74.88 on B.M. Cor M + 30 = 75.00

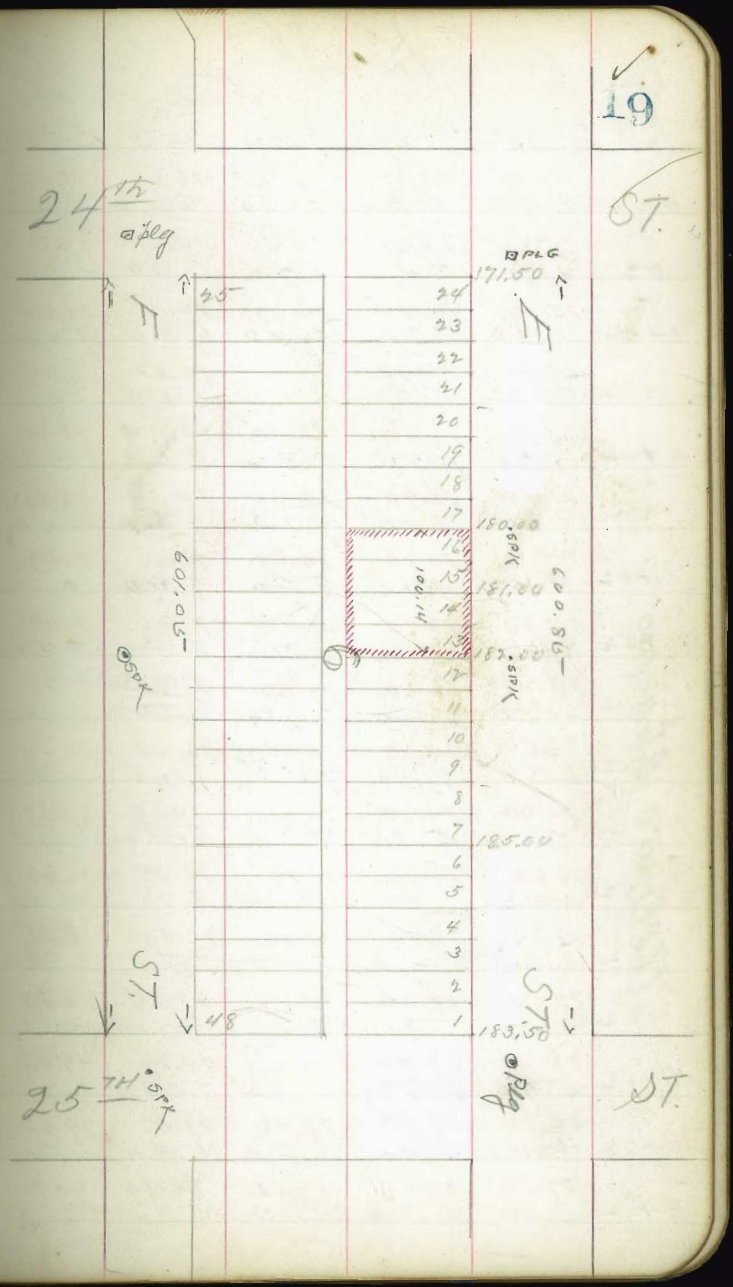
Dec. 1st 1898

Survey & Grades for
Lots 13 to 16 Blk #6 Bread & Chase
Add. for. S. D. Pyncarson.

Run both sides of the Blk, and then run through the middle of the Blk, to get east side of lot 13

187.28 B M Cor D-25
8.14
195.42
11.54
183.88
2.24

186.12	186.12	186.12
182.00	181.00	180.00
4.12	5.12	6.12



K St

Survey - Cross Section Exterior of K st. to 31st Dec 7. 98

Stat	N 25	15 N	Center	15 S	25 S
0+0	78.10 1.90	77.80 2.20	(79.99) 77.10 2.90	76.60 3.40	75.50 4.50
62	75.20 4.80	74.60 5.40	74.30 5.70	73.5 6.50	73.10 6.90
1+12	75.10 4.90	74.30 5.70	73.60 6.40	73.10 6.90	73.00 7.00
+62	75.40 4.60	74.70 5.30	73.30 6.70	72.50 7.50	72.40 7.60
2+12	72.70 7.30	72.50 7.50	72.00 8.80	70.80 9.20	70.80 9.20
+62	71.40 8.60	70.90 9.10	70.30 9.70	70.20 9.80	70.10 9.90
3+12	71.50 8.50	70.90 9.10	70.80 9.20	70.20 9.80	70.00 10.00
+62	72.70 7.30	72.10 7.90	71.80 8.20	71.20 8.80	71.10 8.90
4+12	73.20 6.80	72.80 7.20	72.30 7.70	71.90 8.10	71.70 8.30
+62	73.50 6.50	73.60 6.40	72.60 7.40	72.30 7.70	72.20 7.80
5+12	75.00 5.00	74.70 5.30	74.30 5.70	73.60 6.40	73.60 6.40
+62	76.60 3.40	76.50 3.50	75.70 4.30	76.30 3.70	76.00 4.00
6+12	77.70 2.30	77.70 2.30	77.10 2.90	76.50 3.50	76.20 3.80
+62	79.50 0.50	78.80 1.20	77.70 2.30	77.00 3.00	76.70 3.30
7+12	79.70 5.90	79.30 6.30	(85.59) 78.40 7.20	78.10 7.50	77.90 7.70
+62	80.80 4.80	80.40 5.20	79.40 6.20	79.30 6.30	79.40 6.20
8+12	81.80 3.80	81.40 4.20	80.50 5.10	80.40 5.20	80.70 4.90

All 50' Stations

East line 24"

67.86 B.M. 24 - L.
9.60
77.46
1.28
76.18
3.81
79.99
3.16
76.83
8.76
85.59

(2.80 on top fill in front of yard on north side Street)

6" St Ex

Stat	N25	N15	Center	S15	S25
	81.60	81.10	80.50	80.90	80.50
+62	4.00	4.50	5.10	4.70	5.10
	81.70	80.40	80.90	80.80	80.20
9+12	3.90	5.20	4.70	5.30	5.40
	81.30	80.70	81.00	80.40	80.20
+62	4.30	4.90	4.60	5.20	5.40
	80.40	80.00	79.50	79.50	79.20
10+12	5.20	5.60	6.10	6.10	6.40
	81.70	81.00	79.90	79.40	79.50
+62	3.90	4.60	5.70	6.20	6.10
	83.70	83.00	80.40	79.60	79.40
11+12	1.90	2.60	5.20	6.00	6.20
	84.90	84.20	82.70	81.80	80.8
12	0.70	1.40	2.90	3.80	4.80
	87.10	86.50	(95.34)	84.10	83.10
12	8.20	8.80	85.10	11.20	12.20
	89.60	89.00	87.60	86.80	86.00
+62	5.70	6.30	7.70	8.50	9.30
	92.40	91.20	89.70	88.80	87.90
13+12	2.90	4.10	5.60	6.50	7.40
	94.60	94.10	91.90	89.60	89.30
+	0.70	1.20	3.40	5.40	6.00
	96.80	97.30	(105.83)	92.80	91.20
14+12	9.00	8.50	95.30	13.00	14.60
	99.20	98.90	97.60	95.30	93.80
+62	6.60	6.90	8.20	10.50	12.00
	101.50	101.10	99.00	96.90	95.20
15+12	4.30	4.70	6.80	8.90	10.60
	103.10	102.60	100.10	98.30	97.20
+62	2.70	3.20	5.70	7.50	8.60
	105.40	104.70	102.10	100.40	99.40
16+12	0.40	1.10	3.70	5.40	6.40
	106.90	106.30	103.90 (113.07)	101.80	100.80
+62	6.20	6.80	9.20	11.30	12.30

Add 60 to Stations

Culvert

85.59
1.52
84.07
11.27
96.34
1.31
94.03
11.80
105.83
2.07
103.76
9.31
113.07

West line 26'

K" d.t. Ex

Stat	N.25	N.15	Cente.	S.15	S.25
17+12	107.70	107.40	105.10	102.90	101.80
	5.40	5.70	8.00	10.20	11.30
+62	107.40	107.20	105.20	103.60	102.10
	5.70	5.90	7.90	9.50	11.00
18+12	105.10	104.70	103.80	101.40	100.30
	8.00	8.40	9.80	11.70	12.80
+62	103.40	103.10	101.90	100.10	99.40
	9.70	10.00	11.20	13.00	13.70
19+12	107.20	106.60	104.60	102.50	101.30
	5.90	6.50	8.50	10.60	11.80
+62	109.70	109.00	106.20	104.30	103.20
	3.40	4.10	6.90	8.80	9.90
20+12	109.50	108.60	106.10	103.30	102.00
	3.60	4.50	7.00	9.80	11.10
+62	106.70	106.60	103.90	101.90	100.60
	6.40	6.50	9.20	11.20	12.50
35: +97	104.30	103.40	101.10	99.40	
	8.80	9.70	12.00	13.70	
5. 21+12	105.10	103.80	102.20	100.10	
	8.00	9.30	10.90	13.00	
+62	108.60	107.80	105.60	101.80	99.40
	4.60	5.30	7.50	11.30	13.70
22+12	106.70	106.00	102.40	99.50	97.40
	6.40	7.10	10.70	13.60	15.70
+62	102.90	101.50	(105.21) 98.40	96.20	94.90
	2.30	3.70	6.80	9.00	10.30
23+12	97.50	97.00	94.90	93.20	91.70
	7.70	8.20	10.30	12.00	13.50
+62	94.50	93.60	(96.88) 92.40	91.10	89.90
	2.40	3.30	4.50	5.80	7.00
24+12	92.40	91.60	90.70	89.70	88.90
	4.50	5.30	6.20	7.20	8.00
+62	89.90	89.30	88.50	87.20	87.70
	7.00	7.60	8.40	9.70	9.20

60' Station >

60' Station

1130.7
10.43
1026.4
2.57
1023.1
11.64
9357
361
9688

Rainier

10' west of west line 27 st

Rainier

West line Bayview Ave

K. & E.

Sta.	N25	N15	Center	S15	S25
	86.90	86.60	85.80	84.80	83.90
25+12	10.00	10.30	11.10	12.10	13.00
	80.40	79.40	(90.12) 78.60	79.40	79.60
+62	9.70	10.70	11.50	10.70	10.50
	80.50	80.60	80.50	80.10	80.00
26+12	9.30	9.50	9.60	10.00	10.10
	81.20	81.20	81.20	81.30	81.10
+62	8.90	8.90	8.90	8.80	9.00
	82.70	82.60	82.50	82.20	82.00
27+12	7.40	7.50	7.60	7.90	8.10
	84.60	84.80	84.40	84.40	83.90
+62	5.50	5.30	5.70	5.70	6.20
	86.20	86.50	86.20	85.70	85.40
28+12	3.90	3.60	3.90	4.40	4.70
	86.70	86.70	86.90	86.10	85.80
2	3.40	3.40	3.20	4.00	4.30
	86.10	86.00	85.80	85.70	85.40
2	4.00	4.10	4.30	4.40	4.70
	84.50	84.60	84.50	84.30	84.40
2	5.60	5.50	5.60	5.80	5.70
	83.30	83.60	83.40	82.90	83.00
30+12	6.80	6.50	6.70	7.20	7.10
	82.30	82.30	82.40	82.10	81.60
+62	7.80	7.80	7.70	8.00	8.50
	81.50	81.40	81.30	81.20	80.70
31+12	8.60	8.70	8.80	8.90	9.40
	80.00	80.10	80.30	79.50	79.40
+62	10.10	10.00	9.80	10.60	10.70
	78.80	78.60	78.60	78.40	78.20
32+12	11.30	11.50	11.50	11.70	11.90
	77.10	77.20	(80.39) 77.20	77.00	76.80
+62	3.30	3.20	3.20	3.40	3.60
	76.00	76.00	75.90	75.60	76.00
33+12	4.40	4.40	4.50	4.50	4.40

50' Stations

Ravine

96.88
10.41
86.47
3.65
90.12
10.76
79.36
1.03
80.39

10' E of E Line 29

K. St Ext

Sta	N25	N15	Center	S15	S25
	74.70	74.90	74.90	74.90	75.00
+62	6.70	6.50	6.50	6.50	6.40
	74.00	74.00	74.10	74.10	74.00
34+12	6.40	6.40	6.30	6.30	6.40
	73.60	73.40	73.10	73.20	73.00
+62	6.80	7.00	7.30	7.20	7.40
	72.90	72.90	72.90	72.90	72.80
35+12	7.50	7.50	7.50	7.50	7.60
	72.40	72.40	72.50	72.40	72.40
+62	8.00	8.00	7.90	8.00	8.00
	72.00	72.00	71.90	72.00	72.10
36+12	8.40	8.40	8.50	8.40	8.30
	71.40	71.20	71.30	71.50	72.20
+62	9.00	9.20	9.10	8.90	8.20
	71.40	71.10	71.10	70.90	70.90
37+12	9.00	9.30	9.30	9.50	9.50
	71.00	71.00	71.40	70.90	71.00
+62	9.40	9.40	9.00	9.50	9.40
	71.40	71.20	71.50	71.40	71.10
38+12	9.00	9.20	8.90	9.00	9.30
	71.70	71.70	72.10	72.30	71.90
+62	8.70	8.70	8.30	8.10	8.50
40	72.00	72.00	72.00	71.80	71.70
39+02	8.40	8.40	8.40	8.60	8.70
			(82.06)		
50	72.10	72.10	72.10	72.10	71.90
+62	10.00	10.00	10.00	10.00	10.20
50	72.60	72.60	72.60	72.40	72.30
40+12	9.50	9.50	9.50	9.70	9.80
	72.80	72.80	72.60	72.50	72.30
+62	9.30	9.30	9.50	9.60	9.80
	72.80	72.80	72.90	72.70	72.90
41+12	9.30	9.30	9.20	9.40	9.20
	73.30	73.00	73.00	73.30	73.60
+62	8.80	9.10	9.10	8.80	8.50

Curve Data

D = 5° 00'

82.06
9.90
72.16

75.00 B.M. M-30 Lt
5.56
80.56
4.97
75.59
6.47
82.06

West line 30' Lt K

East line 30' Rt K

K. St Extension

Stat	N 25'	N 15'	Center	S 15	S 25'
42+12	73.20 8.90	73.30 8.80	73.70 8.40	73.90 8.20	74.10 8.00
+62	73.80 8.30	73.80 ~~74.10~~ 8.30	74.10 8.00	74.30 7.80	74.50 7.60
43+12	74.30 7.80	74.60 7.50	74.60 7.50	74.90 7.20	74.80 7.30
+62	75.20 6.90	75.40 6.70	75.40 6.70	75.20 6.90	75.30 6.80
44+12	76.00 6.10	76.20 5.90	76.40 5.70	77.00 5.10	77.30 4.80
+62	77.30 4.80	77.40 4.70	77.50 4.60	77.40 4.70	77.40 4.70
45+12	77.30 4.80	77.50 4.60	77.50 4.60	77.90 4.20	77.70 4.40
+62	77.30 4.80	77.40 4.70	77.70 4.40	78.10 4.00	78.00 4.10
30' △ +92	78.10 4.00	78.30 3.80	78.50 3.60	78.20 3.90	78.10 4.00
38 46+30	E 25 78.50 3.60	E 15 78.40 3.70	78.30 3.80	W 15 78.20 3.90	W 25 78.10 4.00
+80	78.40 3.70	78.50 3.60	78.20 3.90	78.10 4.00	78.00 4.10
47+30	78.40 3.70	78.30 3.80	78.10 4.00	78.40 3.70	78.20 3.90
+80	78.10 4.00	78.10 4.00	78.30 3.80	78.40 3.70	78.20 3.90
48+30	78.50 3.60	78.20 3.90	77.80 4.30	78.00 4.10	77.80 4.30
+80	78.10 4.00	77.50 4.60	77.30 4.80	77.20 4.90	77.20 4.90
49+30	78.80 3.30	78.90 3.20	79.00 3.00	77.70 4.40	77.00 5.10
40' +70 40	77.00 5.70	76.90 5.80	(82.71) 76.80 5.90	76.90 5.80	77.00 5.70

45 92
40
2

45+92
38
46.30

82.06
5.09
76.97
5.74
82.71

West line 31st

Center 31st & turn South along 31st st

South line K. St

N line L

on 31st from K to M

Stat	E 25	E 15	Center	Wes 15	W 25
50+10	77.30 5.40	77.20 5.50	76.80 5.90	76.90 5.80	76.70 6.00
+60	78.00 4.70	77.70 5.00	77.50 5.20	77.50 5.20	77.80 4.90
51+10		78.00 4.70	77.70 5.00	77.60 5.10	77.70 5.00
+60	78.40 4.30	77.90 4.80	77.80 4.90	77.40 5.30	77.70 5.00
52+10	78.70 4.00	78.60 4.10	78.20 4.50	77.90 4.80	78.00 4.70
+60	76.90 5.80	76.90 5.80	77.00 5.70	76.80 5.90	76.70 6.00
T.P. 53+10	78.00 4.70	77.60 5.10	76.60 6.10	76.30 6.40	76.30 6.40
13 +23		77.80 4.90	77.00 5.70	76.10 6.60	
25 58		77.40 5.30	76.30 6.40	75.90 6.80	
25 83 T.P.	N 25 77.90 4.80	N 15 77.40 5.30	76.40 6.30	S 15 75.90 6.80	S 30 75.70 7.00
10 53+93	77.80 4.90	77.40 5.30	76.80 5.90	75.90 6.80	75.60 7.10
54+43	77.70 5.00	77.40 5.30	77.00 5.70	76.00 6.70	75.30 7.40
+93	77.30 5.40	76.40 6.30	75.70 7.00	75.20 7.50	74.90 7.80
55+43	75.50 7.20	75.20 7.50	75.00 7.70	75.10 7.60	75.20 7.50
+93	75.10 7.60	75.40 7.30	76.10 6.60	75.70 7.00	75.70 7.00
56+43	75.40 7.30	75.30 7.40	75.60 7.10	75.90 6.80	75.90 6.80
+93	76.20 6.50	76.00 6.70	76.00 6.70	76.30 6.40	76.40 6.30

Curve 40' R.

5393
50
43

S line L. st

N line M st

Center of M. st, turn East along M st

E line M.

on M from 31st to head grade

Stat	N 25	N 15	Cent	S 15	S 25
	76.40	76.40	76.70	76.30	78.50
57+43	6.30	6.30	6.00	4.40	4.20
	77.20	77.00	77.30	77.60	77.70
93	5.60	5.70	5.40	5.10	5.00
	77.10	76.80	77.10	77.30	77.60
58+43	5.60	5.90	5.60	5.40	5.10

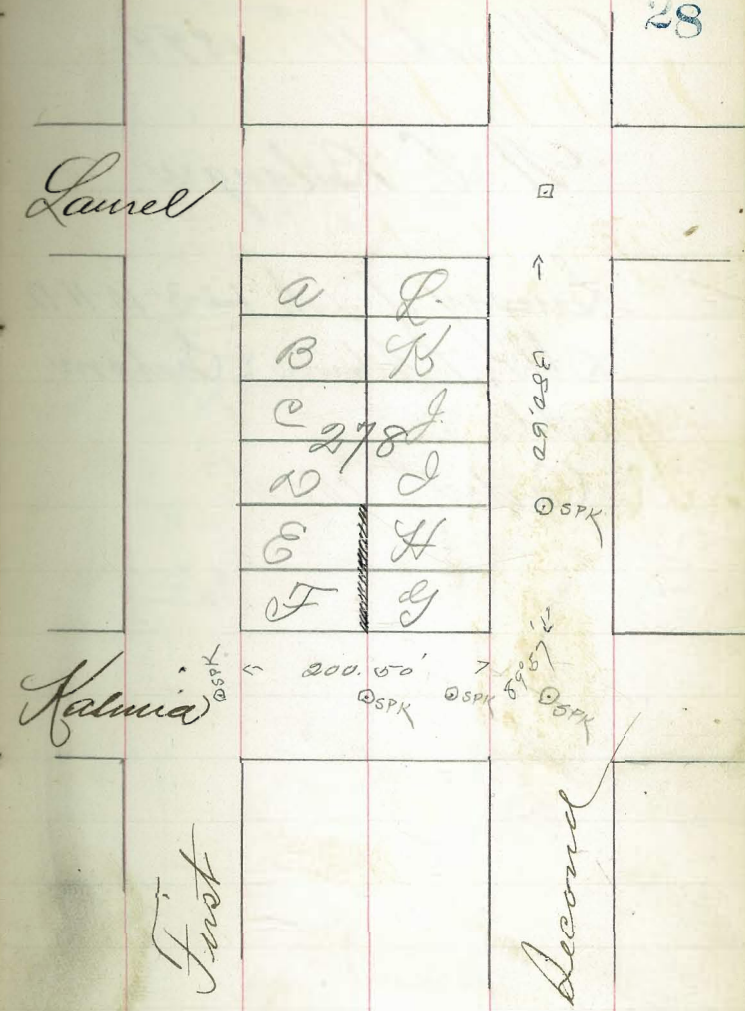
82.71
6.20
76.51

Head 6% grade

Mfd W. H. King Mch 6-99

Survey of Eastline Lots E. F
Bek 278 Horton

Order No 1051



March 11th 1899.

N. L. Boulanger

Survey of Lots 1-2-3-10-11-12
Blk. 7 Wilmore & Sanborn
Add.
Order # 1054.

March 27th 1899.

Curb grades for Lots 5 & 6

Blk #29 Sherman Add.

Ordr # 1057

W H Pattison

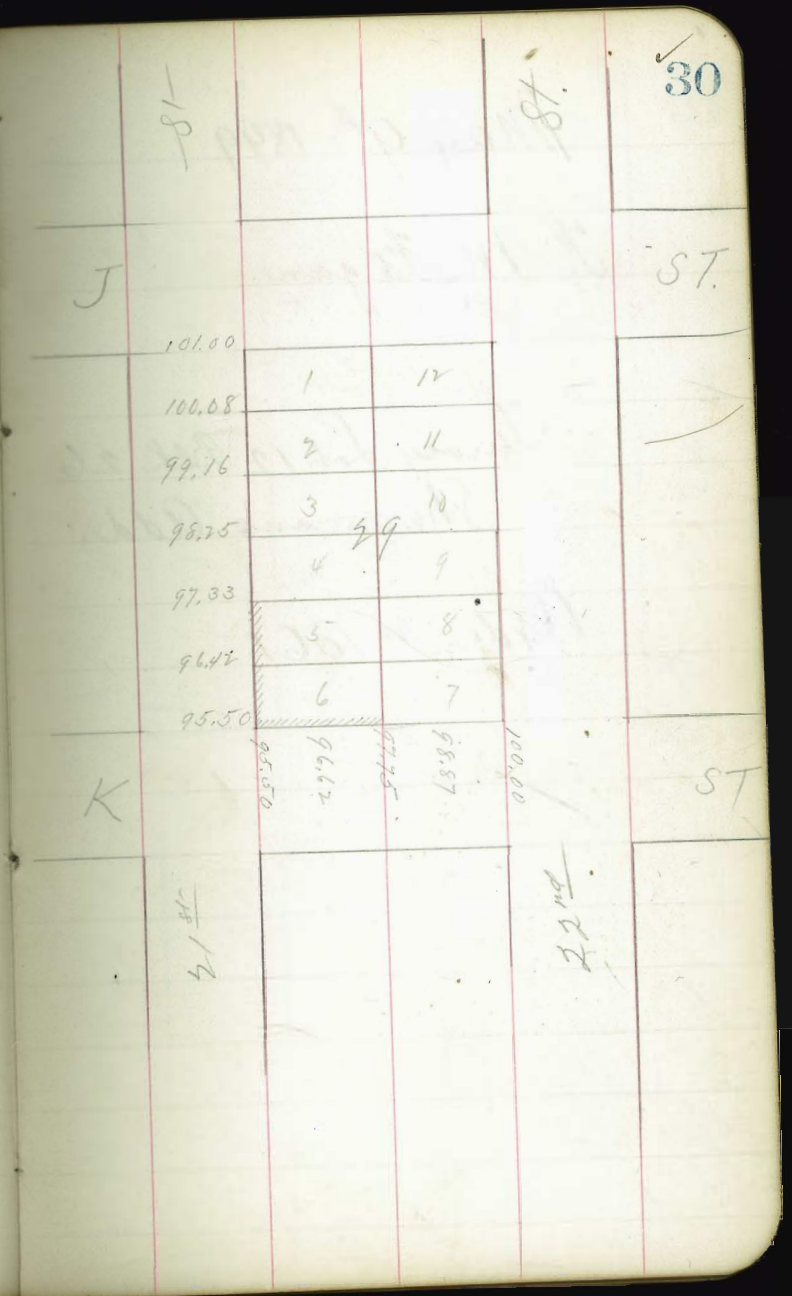
103.46 BM
.05
103.51 H.I.
97.75
5.76

100.40
97.33
3.07

103.51
96.62
6.89

96.62
3.78
100.40 H.I.
95.50
4.90

100.40
96.42
3.98

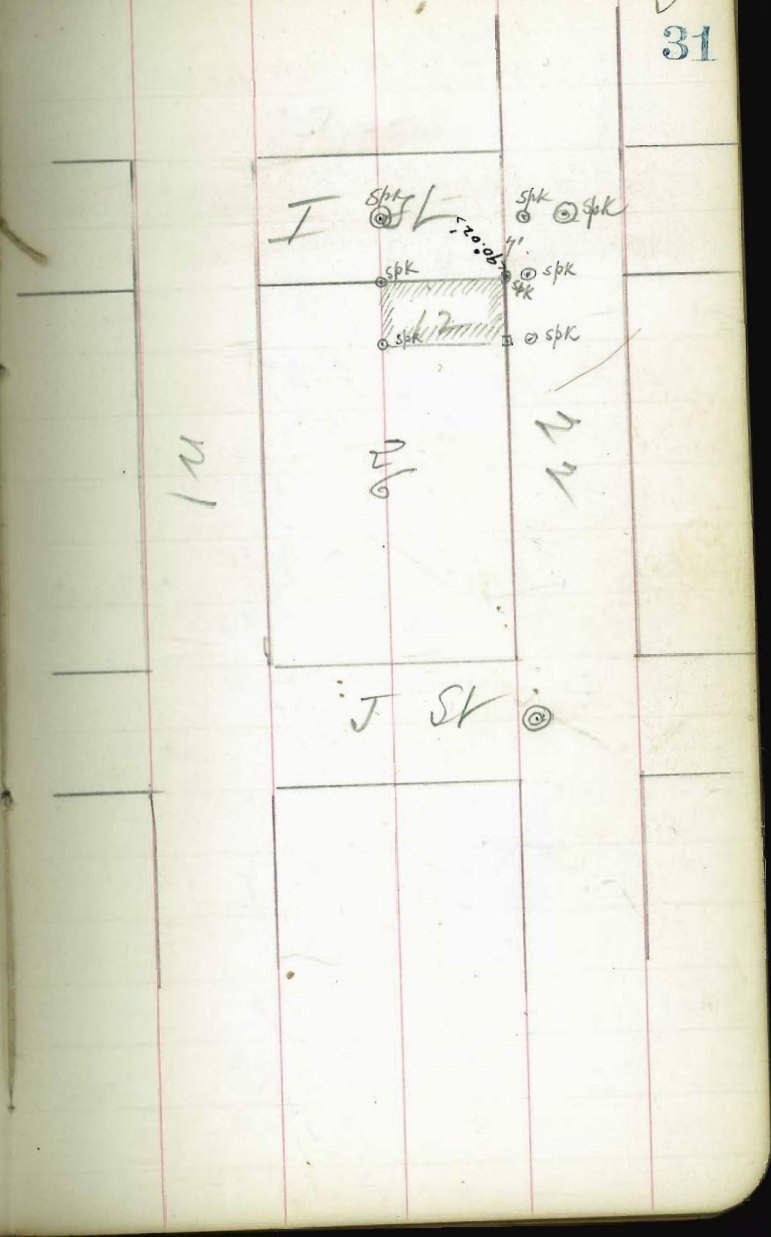


May 9th 1899

F. M. Fegan

Survey Lot 12 Blk 26
Sherman's Add.

Order No 1061



Sta 0 - is on North Bdy of Ry. Right of way

Assumed BM 100.0 on Post SE Cor Ry Right of way

	Grade	El	Cut	Fill	
		(108.58)			109.58
		99.5			- 1.04
0		9.13			108.54
		100.6			11.64
+25		8.04			119.18
		100.6			
+75		8.04			
1		97.6			
		11.00			
		96.4			
+05		12.20			
		97.7			
+50		10.95			
		100.0			
+55		8.65			
	102.0	103.5	1.5		
+79.3		5.14			
	102.7	103.4	0.7		
2		5.20			
	104.1	104.1	00		
+50		4.54			
	105.4	104.6		0.8	
3		4.00			
	106.8	105.4		1.4	
+50		3.25			
	108.2	107.4		0.8	
4		1.25			
		(119.18)			
	109.5	110.1	0.6		
+50		9.12			
	109.9	110.5	0.6		
+64		8.86			
	110.9	112.2	1.3		
5		6.96			

+ 2.74

Survey of Road at Sorrento

Lockyers to City Line

May 22 1899

R. 85°28' (Sta 2. Capps)

L 44°50' (Sta 3. Capps)

N 49°15' E — Div. Line between Lots 6 & 7 Sorrento

N 49°15' E

S 45°15' E

32

Sorrento Road

119.18 ✓
−0.95
118.23
+10.13
128.36 ✓

		119.18	Cut	Fill	
5+50	+ 2.7 ✓	112.3	111.9		0.4
			7.34		
6		113.6	112.3		1.3
			6.90		
+50	X	115.0	115.6	0.6	
			3.63		
7		115.7	117.7	2.0	
			1.54		
			116.0		
1+50		116.4	3.23		0.4
			119.9		
+74.3		116.7	4.86		1.8
		117.1	117.0		0.1
8			2.16		
		117.8	119.1	1.3	
+50			8.15		
		118.5	117.1		1.4
9			2.07		
	+ 1.4	118.8	116.1		2.7
+20			3.10		
		119.2	117.4		1.8
+50			1.82		
			(128.36) ✓		
		119.9	120.0	0.1	
10			8.43		
		120.6	122.2	1.6	
+50			6.17		
		121.3	124.5	3.2	
11	X		3.86		
		121.8	123.3	1.5	
+38.5			5.07		
	+ 2.7	122.7	120.6		2.1
+50			7.78		

7+45.3 Small Box

S 89° 38' E

R 38° 26' ✓ 7+74 Box 1'x2' (Sta 4 Cappo) X

Box 18"x 24"

S. 51° 41' E

L. 14° 10 (Sta. 5 Cappo) X

Sorrento Road

11+83 Box 2x2			(128.36)	Cut	Fill	
		123.5	119.1 / 9.30		4.4	hole
✓ 12		124.0	120.6 / 7.85		3.4	
+50	+2.7	125.3	126.1 / 2.35	0.8		
✓ 13+03		126.7	128.9 / -0.5	2.2		
+50		128.0	128.2 / 0.2	0.2		
✓ 14	>00	128.0	128.9 / -0.5	0.9		
+50		125.8	127.2 / 1.2	1.4		
+55		125.6	126.9 / 1.53	1.3		
			(128.19) ✓			
+87		124.2	125.3 / 2.90	1.1		
✓ 15	-4.4	123.6	123.4 / 4.85		0.2	
+50		121.4	120.7 / 7.55		0.7	
✓ 16		119.2	117.2 / 11.04		2.0	
+50		117.0	117.0 / 11.24	00		
✓ 17	00	117.0	117.4 / 10.82	0.4		
+50		117.0	116.0 / 12.20		1.0	
✓ 18		117.0	116.2 / 12.00		0.8	

128.36 ✓
-1.35
127.01 M
+1.18
128.19 ✓

(1 hyper on Ea side)

Top Post S.E. Cor Lockyer's

△L. 5°10'

(Sta. 6 Capps)

S 65°51' E

S 71°01' E True

Le Capps Cor. 7. Line bet Lockyer & P.L. (fence line) Beg. of New line

Capps line extended to Sta 14+87.

△R 20°05'

S. 65° E. Mag

Div line op 14+95 - 10' R.

S 50°56' E True

Sorrento Road

		Grade			
18			(128.19)		128.19
18+50	-0.1	117.0	116.9 / 11.35		-0.53 / 127.66
19	0.0	118.60	118.6 / 9.62		
+50	+0.2	120.30	120.5 / 7.75		
20	-0.7	121.90	121.2 / 7.05		
+50	-0.9	123.50	122.6 / 5.65		6/22/99
21	-0.3	125.10	124.8 / 3.42		127.66 / + 5.77 / 133.43
+50	0.0	126.80	126.8 / 1.40		- 6.14 / 127.29
22	+1.2	129.65 / 128.40	(133.43) / 3.78		+ 9.18 / 136.47
+50	+0.5	130.00	130.5 / 2.94	Break	
23	+0.5	130.00	130.5 / 2.90	Break	
+50	+0.2	129.30	129.5 / 3.94		
24	-0.4	128.50	128.1 / 5.32		
+50	+0.1	127.80	127.9 / 5.50		
25	+0.2	127.00	127.2 / 6.19	Break	
+49.5	-1.6	127.00	125.36 / 8.07		
26	-0.3	127.00	126.67 / 6.76		
26+50	-0.5	128.60	(136.47) / 128.1 / 8.40		

+3.25

-1.5

60

25+49.5 L.51°01' N.64°15' E

B.M. on Sorrento Lot Stake at Cor Div. line

21+68 - O/S. Div line. Fence 10' R orchard on both sides

L. 51°01' - N.64°15' E Mag.

S. 50°56' E True

N.78°03' E True

Sorrento Road

			(136.47)		
			129.8		
27	-0.4	130.20	6.66		
			132.7		
+50	+0.9	131.80	3.75		
			134.7		
28	+1.3	133.40	1.80		
			134.7		
+50	-0.3	135.00	1.73	Break	
			135.8		
29	+0.8	135.00	0.63		
			135.3		
+50	+0.3	135.00	1.20		
			135.0		
30	0.0	135.00	1.50		
			135.45		
+50	+0.4	135.00	1.02		
			(139.47)		
+55		135.00	129.6		
			9.90		
			1080		
			1030		
+76	+0.2	135.00	135.2 4.23		
			135.1		
31	+0.1	135.00	4.41		
			135.0		
+50	+0.0	135.00	4.58	Break	
			135.4		
32	-0.9	136.30	4.05		
			138.6		
+50	+1.1	137.50	0.86		
			(143.78)		
33	+1.7	138.80	140.5 3.32		
			140.7		
+50	+0.7	140.00	3.12	Break	

136.47
- 0.44
136.03
+ 3.44
139.47
+ 0.72
138.75
+ 3.03
143.78

27+85 Op Dir line

29+95 < almt 60'
30+25

MACKS HOUSE

Edge Bank

ft
center
ft
Top bank Edge Bank

32+98.4 Op Dir line

N. 78° 03' E True

Sorrento Road

			(143.78)
34	-0.5	140.00	139.5 4.33
+50	-0.9	140.00	139.1 4.72
35	-1.0	140.00	139.0 4.75
+50	-0.9	140.00	139.1 4.68
36	0.0	140.00	140.00 3.77
+50	-0.8	141.60	140.8 2.97
37	+0.1	143.20	143.3 0.47
			(151.97)
+50	+0.2	144.80	145.0 6.94
38	0.0	146.40	146.4 5.57
+50	-0.6	148.00	147.4 4.59
38+85	Point on City Boundary 15.0' N of S.E. Cor. Lot 34		150.1 1.92
	+1.0	149.10	2.42

LEVEL

+3.2

143.78
- 1.59
142.19
+ 9.78
151.97

34+15 2' 25' 59- House approx.
34+40

38+65 drain

BM on Pueblo Corner El. 149.55 from assumed Datum

N 78°03' E True

May 27th 1899

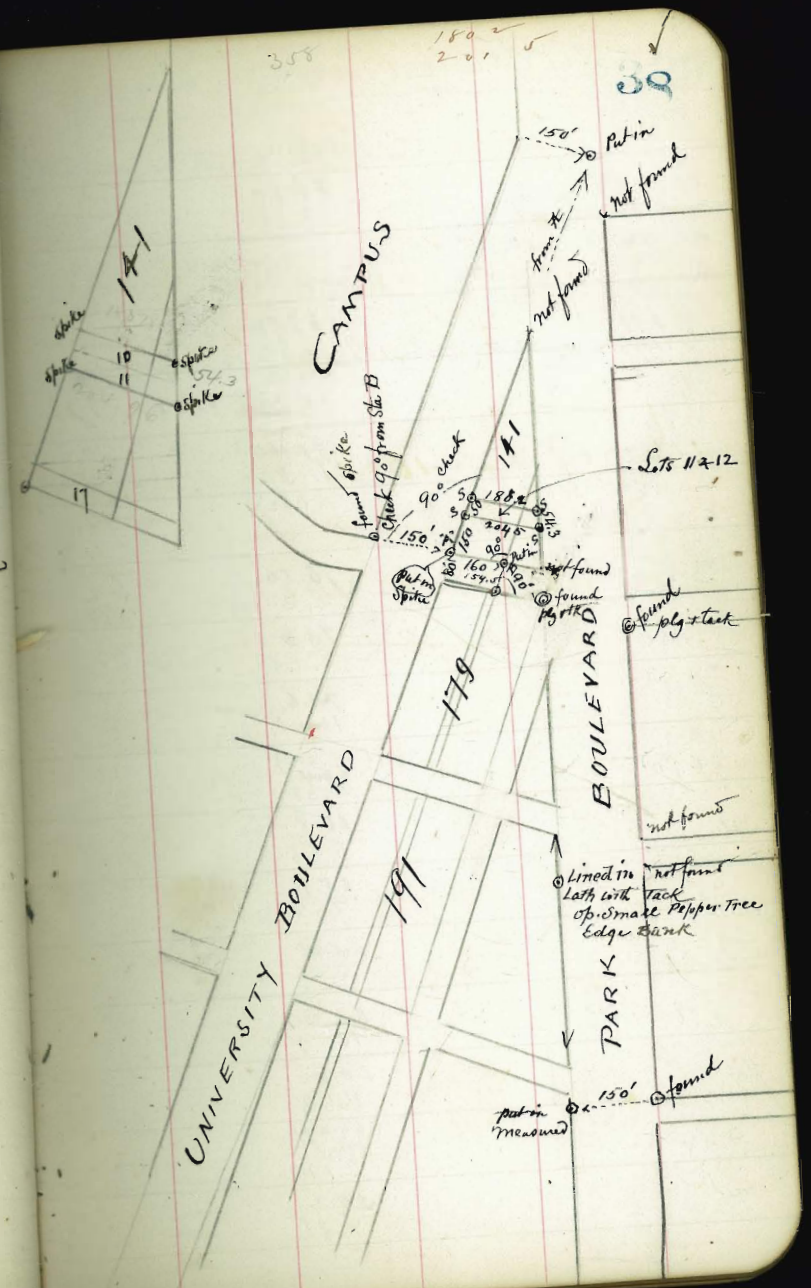
Mrs Mayes.
("Montezuma" 2d & 7 Sts)

Survey Lots 10 & 11 Univ. Heights
Continued through to Park Boulevard
Order No 1062

Void

See Bk 101 page

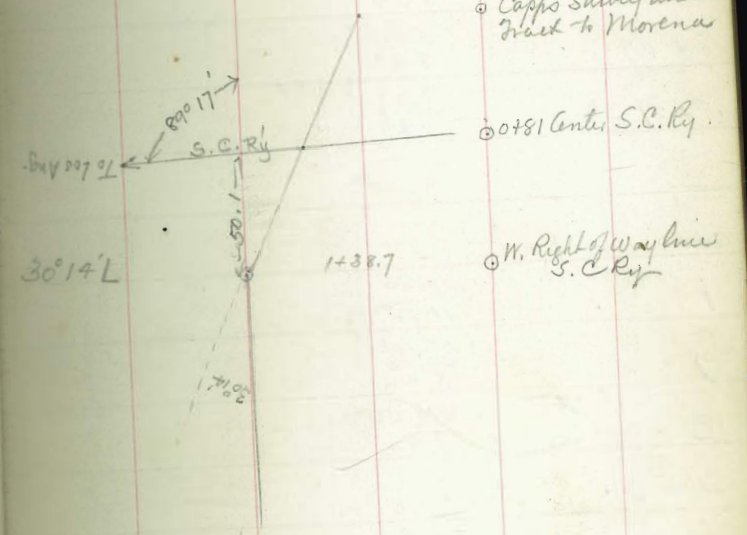
Resurveyed from newly Established Street Centers



Eureka Lemon Tract to Pacific Beach June 6, 1899

Cappo Bench in Post on E. R.o.w. line (Spike)

Sta 0 = Sta 1+00 Cappo Survey Eureka Tract to Morena



Sta			
		(92.74)	91.66
		88.80	1.08
0		3.93	92.74
			11.32
			81.42
			.40
		87.90	
0+81		4.80	81.82
0+90	edge of RR cont	4.62 Rail 88.12	
		83.70	10.50
1		7.64	
		81.40	71.32
1+38.7		11.32	1.12
		(81.82)	72.44
			1.88
		76.50	61.56
2		5.3	093
		73.8	62.49
+50		8.04	
		70.6	
3		11.17	
		(72.49)	
+50		68.4	
		4.08	
		66.8	
4		5.58	
		65.1	
+50		7.28	
		63.4	
5		8.97	
		62.3	
+50		10.09	
		60.8	
6		11.63	
		(62.49)	
+50		59.3	
		3.17	
		58.2	
7		4.35	

7+50	(62.49) 6.50 – 56.0		
8	54.9 7.63		Top Bank
8+07	54.0 8.47		Top rail
	8.68 – 53.81		road bed
8+31 = 0+00	54.2 8.28		Gassens Fence - W. Right of way line P.B. Ry
0+00 = 8+31 △			12° R
0+53 (about) △	50.80	62.49	
1	11.75	8.17	Bell. Post (About fourth North Gassens Fence)
	(52.10)	54.32	(△ about 0+53)
2	48.70 3.40	62.49	
3	44.30 7.80	11.16	
	45.1	51.33	
4	7.00	0.77	
	46.0	52.10	
+50	6.15	9.48	
	44.0 ✓	42.62	
5	8.14	5.55	
	42.0	48.17	
+15	10.14		
6	41.9 10.20		6+25 Box 18"
7	41.7 10.42		
8	42.2 9.90		
9	42.2 9.90		(East Nights H. W.) coal line
	(48.17)		
10	42.2 6.00		

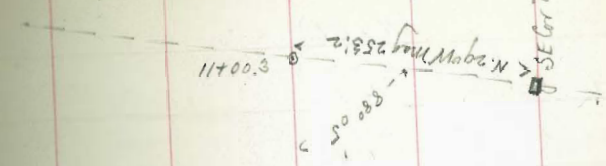
Fence - R of W. Sp. P.B. Ry

1/2°50'

Aerial P.L. 1797

S. 59° 15 W. Mag.

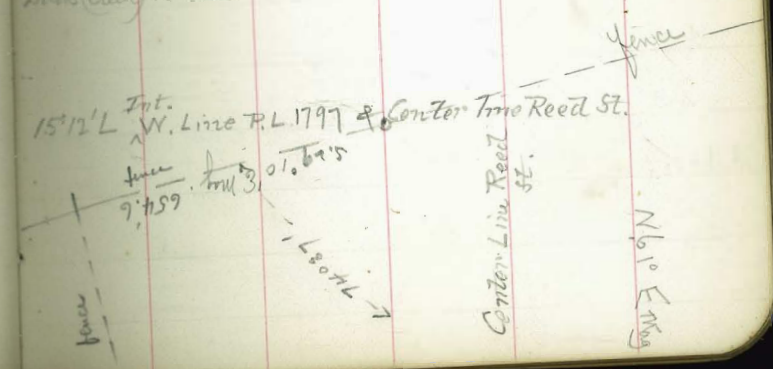
11	(48.17) 5.76 42.4		
12	43.1 5.10		
13	43.0 5.25		
14	43.0 5.17		
15	43.3 4.93		
16	43.0 5.20		
17	43.0 5.17		
18	42.9 5.34	48.17 − 4.62	
19	42.7 5.54	43.55	B.M. 100' L Sta 13 –
20	42.5 5.74	48.17 + 5.45	
21	42.2 6.04	42.72 − 4.74	16°47' R (40' Westerly of bottom of slope of Racetrack)
	42.8 5.45	47.46	T.P. on Cent. Point Sta 21+00
22	(47.46) 41.9 5.62		
	43.1 4.40		H.W(?) on Race track
23	41.9 5.65		47.46 − 4.57 = 42.89 BM 100' L Sta 23
24	42.4 5.08		
25	42.2 5.26		
26	42.8 4.67		



S. 59° 15' W. Mag

S 76° + W. Mag.

	(47.46)		
27	42.6 4.92		
28	43.0 4.46		47.46 3.00
29	43.6 3.92		44.46 5.87
30	43.7 3.77		50.33
31	44.1 3.45		
+60	(50.33) 42.5 7.80		Ditch ft wide
32	44.0 6.26		
33	43.9 6.37		
34	45.1 5.20		
35	45.2 5.13		
36	45.6 4.72		50.33 462 45.71 B.M. on fence post about 4 posts West
+50	42.1 8.20		Ditch (Creek) 10' wide
37	45.3 5.05		
+86 △	45.1 5.20		15°12'L Int. W. Line P.L. 1797 & Center Line Reed St.
38	45.4 4.90		fence 9.459 from 3.01.69'S
39	44.9 5.44		74.087
40	44.4 5.9		



		(50.33)			
41		44.8		50.33	
		5.50		5.15	
		45.1		45.18	△ 4422 TP
+ 22.6 △		5.2		6.98	R 89°56' Center Reed and 15th Sts
		(52.16)		⊘52.16	
42		44.9		0.22	
		7.26		51.94	
43		46.0		10.50	
		6.20		⊘62.44	
44		48.8		1.68	
		3.45		60.76	State St. 48?
45		(62.44)		9.25	
		52.4		⊘70.01	
		10.0			
46		56.1			
		6.3			
47		58.9			
		3.47			
48		60.3			
		2.10			
49		(70.01)			
		62.7			
		7.3			
50		64.9			
		5.1			
51		67.4			
		2.65			
52		68.5			
		1.52			
53		69.1			
		.090	(Road bed Grand Ave about 2' higher + 20' farther)		
	+16	71.5			+42 approx Ark Graded Road
53+78.3	Transcript levels +42	72.3			Center S.D., P.B. & L.J. Ry

N. 29° W. Mag.

Center Line 15th St.

Bm - 221.446 N.E. Cor. Iron pin in Ground Kalmia
" 230.495 SE " Spk " Elec Pole Laurel
" 210.5 NE " " Cor post Juniper

222.59 Bm Str Laurel & 1st
9.77
232.36 ~~0~~ N side
223.5
8.86

232.36 ✓
221.67
10.69 S side

232.36 Placed
4.50 new
227.86 Bm in
Post S of SE Cor
2d & Laurel

232.36
230.00 NW 2 & Laurel Curb
2.36 Check

Order # 1063
Clark & Rockfellow
Curb Stakes Lot I Bk 278
Horton's Add.
June 13th 1899

(Dr Harbison's lot)

See p. 28

44

224.0 230.0 231.0

Laurel

223.0 229.0 230.0

L 227.17
K 225.33
J 223.5
278 I 221.67
H 219.83
G

300.5 See p. 28

213.0 218.0 219.0

Kalmia

2nd St.

211.0 217.0 218.0

Survey for Garbage Wharf at foot of 8th Street

Run on Center line of 8th Street 627.0 S. of S. line of S. St.

Deflected 35° R. for line of wharf — —

Laid off base line 110.0 ft to left 90° from wharf line —

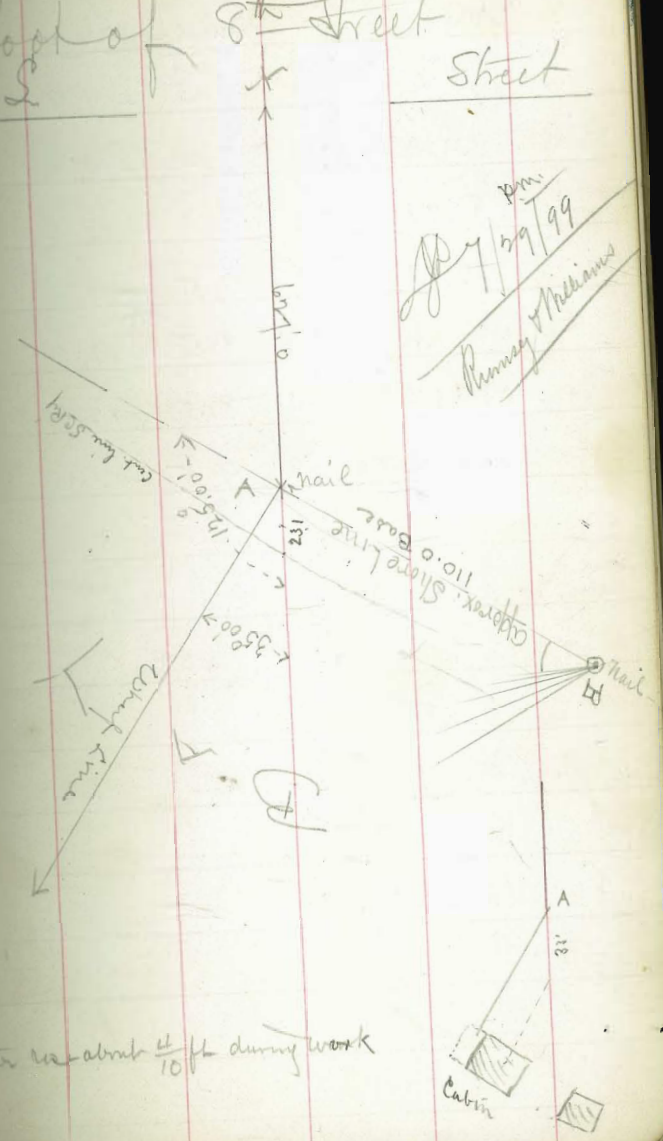
Rod on B.M. Hydrant N.E. Cor M + 9th 6.15

Rod 0.80

Transit levels 6.95

			Elev
Rod 78' S. of "A" on wharf line	6.1	Edge bank	0.85
" 79' " " "	8.8	bot "	− 1.85
" 95' " " "	10.3	Edge water	− 3.35

Angles from B		Sounding	Elev.
64°54'	234.8	4.5	− 7.9
72.06	340.6	5.5	− 8.9
75.04	412.4	5.7	− 9.0
77.03	478.4	6.0	− 9.3



Water rose about 4/10 ft during work

JP 7/29/99 P.M.
Ramsey & Williams

Angle		Sounding	Elev.
78° 45'	553.0	6.5	-9.9
80° 13'	637.9	7.0	-10.4
81.20	721.7	7.3	-10.8
82.30	835.5	7.5	-11.0
83.06	909.0	8.5	-12.1
83.51	1020.9	8.5	-12.1
84.12	1082.9	9.5	-13.2
between Cabins 53° 10'	1469	9.0	-6.5

Survey for Garbage Wharf at foot of 9th Street

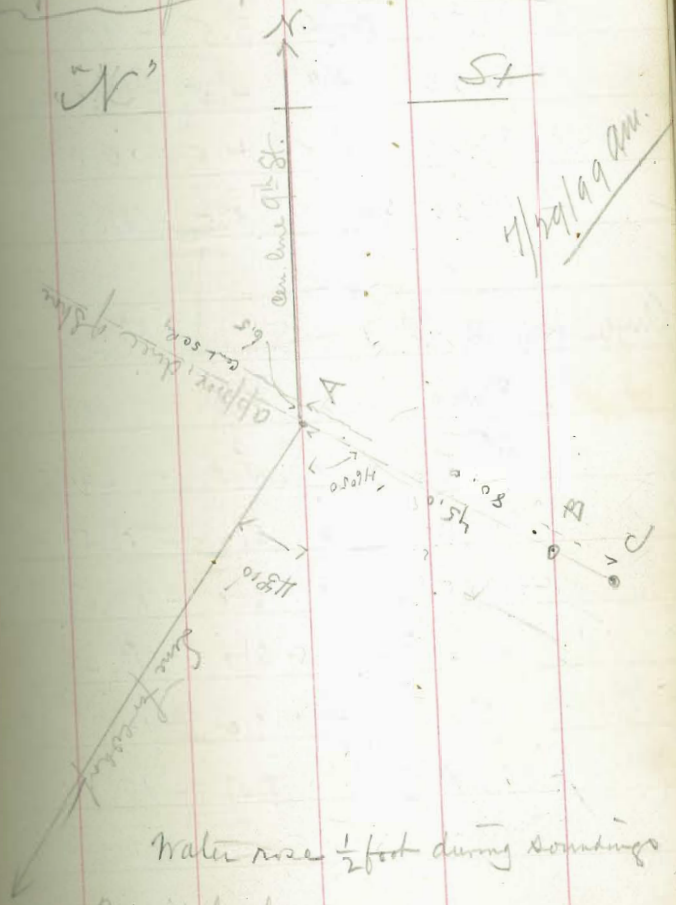
Ran on Center line of 9th Street
132.3 S. of S. line of N St.
Deflected 43° 10' R for line of Wharf
Laid off base 75'.0 B + 80'.0 C to left
90° from Wharf line

Rod on Curb	N.E. Cor 9th + N		5.27
		Curb Elev	2.50
			7.77
	T.P.	Lock on tie	6.47
			1.30
		Rod	3.79
			5.09

Check from 8th St	
	6.95
Rod on T.P.	5.60
	1.35
Hence Rod	3.79
	5.14

	Rod	Elev
Rod 7' out on Wharf line	7.40	-2.3
" 66' " " " " Edge Water	11.20	-6.1

Angles from C (80')		Soundings	
55°.24	116'.0	1.5	-7.6
62.22	152.8	1.6	-7.7
7306	263.3	2.5	-8.7
7708	350.2	3.0	-9.2



7/29/99 am.

Water rose ½ foot during soundings

Transit levels

Numerous Cabins on Water Front made short base line necessary

Angle		Soundings	
80° 35'	482.4	3.5	- 9.7
82.28	604.9	4.5	- 10.8
83.28	698.5	4.5	- 10.8
84° 25'	818.3	5.5	- 11.9

Angles from B (75°)

		Soundings	Elev-
82° 00'	533.6	4.0	- 10.4
83.25	649.9	4.5	- 10.9
84.15	744.8	5.0	- 11.5
85.25	935.6	6.0	- 12.5
86.19	1165.0	6.7	- 13.2
86.39	1281.3	8.0	- 14.6
86.59	1423.1	8.5	- 15.1

	Rod (11.53)	Cent. track Elev. Bitumen	Of. Grade Cent Track	Make Track Elev
S. Side J	2.80	8.72	8.71	8.74
+ .25	3.10	8.43	8.41	8.44
50	3.42	8.11	8.11	8.14
75	3.70	7.83	7.81	8.84
1	3.96	7.57	7.51	7.54
25	4.18	7.35	7.21	7.24
50	4.60	6.93	6.91	6.94
75	4.90	6.63	6.61	6.64
2	5.20	6.33	6.31	6.34
25	5.49	6.04	6.01	6.04
50	5.86	5.67	5.71	5.74
75	6.08	5.45	5.41	5.44
N. Side K	3.39	5.14	5.11	5.14
+ 40	6.60	4.93	4.76	4.91
S. Side K	6.72	4.81	4.41	4.76
25	6.84	4.69	4.19	
50	7.00	4.53	3.96	

Survey & Grades for Extension of Spur RR Track

East Side 5th K to J

Center line track 19.77 from property line
5.77 " " Curb

Arnold Franchise

Oct 28 99

[illegible]

Rumsey & Williams

	Rod	Elev.	Grade
75	7.31	4.22	3.74
1	Cut		3.51
1+25	7.73	3.80	3.29
50	7.96	3.57	3.06
75	8.25	3.28	2.84
2	8.45	3.08	2.61
25			2.39
50			2.16
75			1.94
1. Sta L			1.71

Cemetery

Stat	L 20	L 15	Centre	R 15	Slope
0+0			g	-.80	1.5 / 0.8
50			g	-1.20	
1+00			Road 4.40	7.3 Road / -2.90	5 out / -3.5
50			Road 1.60	7.00 Road / -5.40	11 out / 7.2 Rd
2+00			Road 1.60	7.40 Road / -2.8	7.00 out / 9,10 Road
50			1.00	5.00 / -4.00	9.00 out / 6.80 Rd
3+00			4.00	7.60 / 8.60	11.00 out / 11.30 R
50			0.50	6.30 R / -5.80	20.00 out / 14 R
4+00			0.30	6.00 R / -5.70	21.00 out / 14.5 R
25			1.80	6.40 R / -4.60	9.00 out / 7.90 R
50			1.00	6.70 R / -5.70	19.00 out / 13.7 R
5+00			0.90	7.00 R / -6.10	18.00 out / 12.50 R
25			2.50	6.70 / -4.20	13.00 out / 10.80 R
50			0.80	7.00 / -6.20	24.00 out / 17.00 R
75			2.50	8.10 / -5.60	20.00 out / 16.00 R
6+00			1.00	7.90 / -6.90	21.00 out / 15.3 R
50			1.10	8.50 / -7.40	24.00 out / 18.8 R

Cemetery Road

Dec 17 ✓ 68

Stat	L 20'	L 15'	Centre	R 15	Slope
7+00			1.20	7.70 R / -6.50	25.00 out / 17.70 R
50			1.20	7.10 / -5.90	22.00 / 15.60 R
8+00	25.60 Elev @ 19+27		1.20	7.10 / -5.90	22.00 / 15.70 R
25	5.13 / 30.73		2.70	10.30 21.00 out / -7.60 -17.9	24.00 / -16.00
50			1.20	8.50 15 out / -7.60 -16.1	23.00 / -15.50
25			1.00	12.00 / -11.00	7.00 / -15.5 / 20.00 / -13.30
9+00			1.00	13.30 / -12.30	3.00 out / -14.70 / 19.00 out / -12.70
25			+6.00	15.00 out / g-	
50			+4.70	15.00 out / g	
75			1.60 g	4.50 / -2.90	6.00 out / 5.60 R
10+00	15.00 out / +0.5	13.00 out / g-	6.00 -2.90	7.90 R / -4.80	8.50 out / 8.80 R
50	7.00 out / 4.70 R	4.70 R / -4.70	4.70 -4.70	4.30 R / -4.30	6.00 out / 4.00 R
+77A	5.00 out / 5.1 R	5.10 R / -3.40	5.10 -3.40	4.80 R / -3.10	4.50 out / 4.70 R
11+00	25.00 out / 26.00 / 4.70	25.90 (30.73) / 4.80	25.60 / 5.10	25.50 / 5.20	25.40 out / 5.30
50	24.40 / 6.30	24.50 / 6.20	24.70 / 6.00	24.60 / 6.10	25.50 / 5.20
12+00	22.70 / 8.00	23.30 / 7.40	23.60 / 7.10	24.20 / 6.50	23.40 / 6.30
15	20.70 / 10.00	22.40 / 8.30	23.00 / 7.70	23.30 / 7.40	23.40 / 7.30
16	Culvert				

Stat	L 25	L 15	Cent	R 15	R 25
	22.20	22.10	21.60	22.20	21.90
12+30	8.50	8.60	9.10	8.50	8.80
15	26.30	26.70	24.10	24.10	24.10
+45	4.40	4.00	6.60	6.60	6.60
10		27.60	28.10	28.60	
+55		3.10	2.60	2.10	
45		29.40	30.20	30.70	
13+00		1.30	0.50	0.00	
		30.10	(34.95) 31.80	30.00	
50		4.80	3.10	1.90	
		26.70	31.30	32.70	
14+00		6.20	3.60	2.20	
		29.00	30.20	32.20	
50		5.90	4.70	2.70	
		27.90	28.00	29.10	
75		7.00	6.90	5.80	
	grade	grade		grade	
15+00	27.33	27.33		27.33	

30.73
0.61
30.12
4.83
34.95
7.67
27.28

$\frac{90}{810} = \frac{1}{9}$ of 3.00 = .33

$\frac{190}{810}$ — — .70

~~37~~

290 — 1,07

37

390 1.44

37

490 1 81

37

590 2,18

37

690 2 55

37

790 2.92

074

774 2,74

$\frac{720}{810} = \frac{8}{9}$

77

.3333

81

2.6664

$\frac{190}{810}$

19

30

81) 570 (.70

567

3300

$\frac{100}{810}$

81) 3000 (0

243

570

567

.37

37

70

790

83

81) 2370 (2

162

750

729

210

740

3

81) 2220 (27

162

600

567

330

.037

20

.0740

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