Gr. Book 92

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A	30th	Granada	2
29th	B	A	5
ATLANTIC			8
VOLTAIRE ST			15
ALLEY			17

FIELD BOOK

LA JOLLA	BOULEVARD	24 & 19 & 32	
29TH	[illegible]	A	21
LANDIS	[illegible]	ARNOLD	23
MONROE AVENUE			25
VOLTAIRE STREET		34 &	26

692

KEUFFEL & ESSER CO.

DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS.
NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

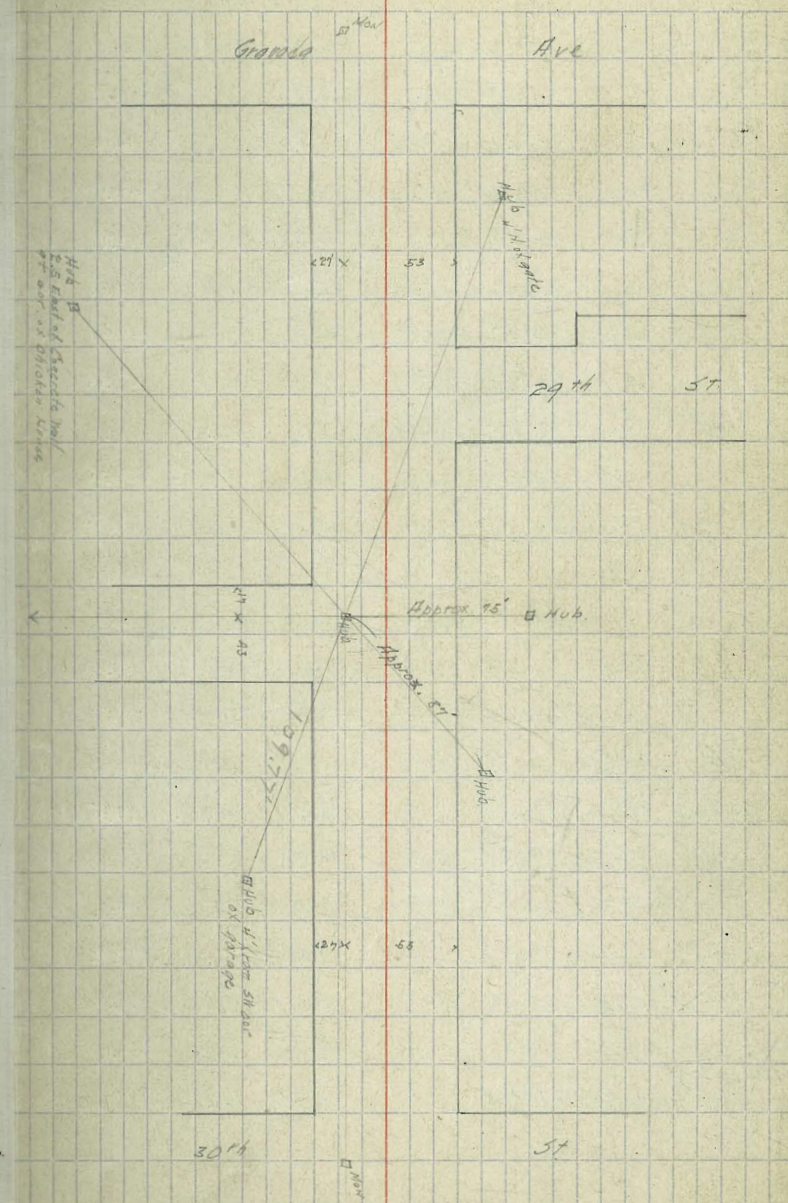
Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tabels see end of book.

RETURN TO CITY ENGINEERS OFFICE
CITY HALL, SAN DIEGO, CAL.

MICROFILMED

APR 7 1965


Gravada
Ave
Hub
Hub 4' Hogate
29th
St
Approx 75'
Hub
Approx. 87'
Hub
109.77'
Hub 4' from SW cor ox garage
30th
St

80' St.
14' Walks
13' Quarters

A Street

	M	Curb	¼	℄	¼	Curb	S
W.L. 30th	222.25	221.00	220.60	221.00	220.60	221.00	221.25
25' W.	218.83	218.58	218.18	218.58	218.18	218.58	218.83
50' "	216.41	216.16	215.76	216.16	215.76	216.16	216.41
70'	214.47	214.22	213.82	214.22	213.82	214.22	214.47
85'	213.02	212.77	212.37	212.77	212.37	212.77	213.02
100'	211.56	211.31	210.91	211.31	210.91	211.31	211.56
125'	209.14	208.89	208.49	208.89	208.49	208.89	209.14
140'	207.69	207.44	207.04	207.44	207.04	207.44	207.69
154.8	.06 2062.5	.06 206.00	205.60	206.00	205.60	.7 Bow 206.00	206.25
175'	204.03	203.78	203.38	203.78	203.38	203.78	204.03
199.7'	201.25	sidewalk bumped. 201.00	200.60	201.00	200.60	201.00	201.25
200'	.12 e	.12	.24	.14	.4 h	.18 e	.11 e
210'	201.06	200.81	200.39	200.78	200.36	200.75	201.00
240'	200.49	200.24	199.75	200.12	199.66	200.00	200.25
260'	200.11	199.86	199.33	199.68	199.20	199.50	199.75
279.7 or 280	.06 e 199.75	.06 e 199.50	198.90	.1 e 199.25	198.72	.06 e 199.00	.06 e 199.25
294.80'	198.25	198.00	197.40	197.72	197.18	197.45	197.70
300'	197.75	197.50	196.90	197.21	196.66	196.92	197.17
325'	195.25	195.00	194.40	194.66	194.08	194.31	194.56
344.80'	193.25	193.00	192.40	192.62	.4 h 192.03	192.22	192.47
350'	192.75	192.50	191.90	192.11	191.52	191.72	191.97
375'	190.25	190.00	189.40	189.55	188.92	189.10	.3 e 189.35
EL. of 29th St. 394.80	188.25	188.00	187.40	187.50	186.85 .3 h	187.00	187.25

Dale St. modified 1.44.82

1.96%
1.11%
1.11%
9.69%
1.96%
1.2%
2.35%
2.5%
10.43%

Book 989

Fill on Manhole at Dale = 6.8
" " pipe " " 24 = 8.5

1555 / 1281 — 1274.8

Curb OK 1/23/17 Gregory

W.L. Dale

A STREET

	N	Curb	¼	℄	¼	Curb	S
EL. of 29th	188.25	188.00	187.40	187.50	186.85	187.00	187.25
Curb	188.25	188.00	187.40	187.50	186.85	187.00 186.00	187.00 186.00
¼	188.25	188.00	187.40	187.50	186.85	186.00	186.40
℄	188.25	188.00	187.40	187.50	186.85	186.00	187.00
¼	188.25	188.00	187.40	187.50	186.85	186.00 186.00	186.40 186.00
Curb	188.25	188.00	187.40	187.50	186.85	187.00	187.00
W.L. 29th	188.25	188.00	187.40	187.50	186.85	187.00	187.25
on the South W.L. 29th	188.25	188.00	187.40	187.50	186.85	187.00	187.25
29th on the North 272' W. = EL. of	188.89	188.64	188.04	188.14	187.49	187.64	187.89
the North EL. 29TH on	188.89	188.64	188.04	188.14	187.49	187.64	187.89
Curb 10'	188.64 187.64	188.64 187.64	188.30	188.40	187.75	187.90	188.15
¼ 10'	188.63	188.03	188.56	188.66	188.01	188.16	188.41
℄ 10'	189.4~	188.4~	188.8~	188.9~	188.27	188.4~	188.67
¼ 10'	189.60	188.81	189.08	189.18	188.53	188.68	188.93
Curb 10'	189.20 190.20	189.20 190.20	189.34	189.44	188.79	188.94	189.19
on North W.L. 29TH 10'	190.45	190.20	189.60	189.70	189.05	189.20	189.45

29th ST open on South, closed on North

29th ST. open on North closed on South

14128
19063 Pole.

18886 TP page 5
19128

187.96 / .03 / .04 / -.02
187.94 / .02 / .92 / 7.63 / 188.89 / .26 / .26 / +.02
190.63 / 1.65 / 191.88

SE set 1' high
187 / 4.78
SW set 2' low
187 / 4.78

NE 1' high
188.64 / 3.14
187.83 / 2.95

19504 HB.

192.94 HB page 2

187.94 / 7.45
187.89 / 7.90
187 / 8.99
187.25 / 7.94
188 / 4.94
188.25 / 4.68
189.64 / 4.30
189.89 / 4.05
190.20 / 3.74
190.45 / 3.49

curbs + props 7/29/16 Gregory
Miller

19519 187 / 5.19

Checked OK 1/23/17 Gregory

A STREET

	N	Curb	1/4	℄	1/4	Curb	S
W.L. 29TH	.13 l 190.45	190.20	.1 h 189.60	189.70	.3 h 189.05	.05 l 189.20	189.45
20' W.	191.79	191.54	190.94	191.00	190.33	190.46	190.71
40' "	193.13	192.88 193.55	192.28	192.30	191.61	191.72 192.34	191.97
55' "	194.14	193.89	193.29	193.27	192.56	192.66	192.91
70'	195.15	194.90	194.30	194.25	193.52	193.60	LOW 3 193.85
90	196.50	196.25	195.65	195.56	194.81	194.86	195.11
100	197.17	196.92	196.32	196.20	195.44	195.48	195.73
125	198.85	198.60	198.00	197.82	197.04	197.05	197.30
150	200.53	200.28	199.68	199.45	198.64	198.62	198.87
175	202.21	201.96	201.36	201.08	200.23	200.19	200.44
190	203.22	202.97	202.37	202.05	201.19	201.13	201.38
210	204.57	204.32	203.72	203.35	202.46	202.38	202.63
of GRANADA 220' W. = EL.	205.25 .03 l	205.00 .08 l	204.40	204.00	203.10	203.00 .02 l	203.25 ok

6.727%

6.278%

3/28/16

Gregory Moore Miller

191.28 R. from page 3

190.45 .83 1.32 -1.05 / 189.45 0.83 1.24 -1.56

191.28 .83 190.45 1.32 208.57

195.15 7.42 .83 -2.9 / 193.84 8.92 1.32 -1.0

198.85 9.72 .01 +3.6

202.57 .93 201.64 7.54 209.18 3.53 205.65

197.30 11.88 .61 +5.7

202.21 6.97 .30 +3.9 / 200.44 8.74 .14 +4.6

205.25 3.93 .31 +0.8 / 203.25 5.93 .44 +1.5

CUTS & FILLS 9/13/16

205.50 N.W. Granada "A" 1.21 206.71

205 1.71 / 205.25 1.46 / 203 3.71 / 203.25 3.46 / 201.13 5.58 / 201.38 5.33 / 202.97 3.74 / 203.22 3.49 / 200.53 6.18 / 200.28 6.43 / 198.62 8.09 / 198.87 7.84

195.48 1.23 / 195.73 10.98 / 196.92 9.79 / 197.17 9.54 / 206.71 12.88 193.83 1.26 195.09 / 195.55 1.54 / 193.80 1.29 / 192.34 2.75 / 192.59 2.50 / 189.20 5.89 / 189.45 5.64 / 190.20 4.89 / 190.45 4.64

curbs + props 11/28/16 Gregory Moore Miller

205.50 0.82 206.32 12.78 193.54 1.29 195.03 / 188.84 6.19 / 188.64 6.39 / 190.20 4.83 / 190.35 4.68

205.50 1.65 207.15 13.07 194.08 1.11 195.19 / 189.20 9.5 / 205 2.15 / 204.50 2.75 / 204 3.15 / 203.10 4.05

190.20 4.99 / 189.60 5.59 / 189.70 5.49 / 189.05 6.14 / 189.25 5.99

Mkd OK 1/23/7 Gregory

29TH ST

	W	Curb	1/4	℄	1/4	Curb	E
			.34		.14		
"L.B" ST.	197.25	197.00	196.60	197.00	196.60	197.00	197.25
25' No.	196.41	196.16	195.76	196.16	195.76	196.16	196.41
50' "	195.58	195.33	194.93	195.33	194.93	195.33	195.58
75'	194.75	194.50	194.10	194.50	194.10	194.50	194.75
100'	193.91	193.66	193.26	193.66	193.26	193.66	193.91
125'	193.08	192.83	192.43	192.83	192.43	192.83	193.08
150'	192.25	192.00	191.60	192.00	191.60	192.00	192.25
175'	191.41	191.16	190.76	191.16	190.76	191.16	191.41
200'	190.58	190.33	189.93	190.33	189.93	190.33	190.58
gutter 225'	189.75	189.50	189.10	189.50	189.10	189.50	189.75
250'	188.92	188.67	188.27	188.67	188.27	188.67	188.92
260'	188.58	188.33	187.93	188.33	187.93	188.33	188.58
275'	188.08	187.83	187.43	187.83	187.43	187.83	188.08
285'	187.75	187.50	187.10	187.50	187.10	187.50	187.75
290'	187.58	187.33	186.93	187.33	186.93	187.33	187.58
294'	187.45	187.20	186.80	187.20	186.80	187.20	187.45
300' M = S.L. "A"	187.25 .06 h	187.00 .07 l	186.60	187.00	186.60	187.00 .06 l	187.25 .08 l

3.33 %

3.33 %

Continuation of 29th St grades on page 21

197.25 End of Curb SE 29th B.
1.40
201.35

W 197.25 / 4.10 / 5.6 / -1.5 — 195.58 / 5.77 / 18.47 / -6.7 — 195.58 / 5.77 / 3.5 / +3.2 — 193.91 / 7.44 / 12.9 / -5.5 — 193.91 / 7.44 / 1.7 / +5.7 — 192.25 / 9.10 / 11.6 / -8.5 — 192.25 / 9.10 / 9 / +8.2 — 190.58 / 10.77 / 10 / +0.8 — 190.58 / 10.77 / 6.7 / +10.1 — 188.92 / 12.43 / 9.8 / +5.6

201.35 / 12.43 / 188.86 / 10.08 / 198.94 — 188.92 / 10.02 / 12.22 / -2.2 — 187 / 11.94 / 13.1 / -1.2

CUTS & FILLS 9/13/16
Gregory
Moore
Miller

3.02 / 200.37 H.I. — 197.0 / 3.37 — 195.33 / 5.04 — 193.66 / 6.71 — 192.00 / 8.37 — 190.33 / 10.04 — 188.67 / 11.70 — 187.00 / 13.37

195.19 — 187 / 8.19 — 186.60 / 8.59 — 187 / 8.19 — 186.60

197.35 / 3.40 / 200.25 — 196.6 / 4.15

Chkd OK 1/23/17 Gregory

204.01 NE 29th & Ash
96
204.77

	201.99	200.34	198.70	197.05	195.40			204.97	193.37	192.10
	2.98	4.63	6.27	7.92	9.57			12.43	.49	.88
	3.08	4.83	7.37	9.4	14.87			192.49	10.81	13.38
	-0.10	-0.2	-1.1	-1.5	-5.3			.39	-11.30	-12.6
				196.32	194.46	192.60	190.75	192.88		
				8.65	10.51	12.37	14.22			
				8.65	.97	12.37	11.12			
				.00	+0.2	.00	+3.1			
E 387.23 W. 388.37 = SL. Ash.		203.25	203.0					203.0	203.25	
350		201.99							201.89	
300		200.34							200.03	
250		198.70							198.18	
200		197.05							196.32	
150		195.40							194.46	
100		193.74							192.60	
E 87.23 W 88.37		193.38								
50		192.10							190.75	
N.L.A		190.45	190.20					188.64	188.89	

see page 21

80' ST.

ATLANTIC STREET

	W.	Curb	1/4	℄	1/4	Curb	E
ML. CEDAR 1754' No. on E.	7.25	7.00	6.60	7.00	6.60	7.00	7.25
Section A	7.25	7.00	6.60	6.97	6.54	6.94	7.19
50' N. of Sec. A	7.13	6.88	6.48	6.82	6.36	6.76	7.01
100' No.	7.00	6.75	6.35	6.66	6.18	6.58	6.83
150' " 192.5' on E	6.88	6.63	6.23	6.52	6.01	6.41	6.66
200 202' N. on W.	6.75 / 6.75	6.50 / 6.50	6.10	6.37	5.83	6.25 / 6.23	6.50 / 6.48
250	6.62	6.38	5.98	6.22	5.65	6.05	6.30
300'	6.50	6.25	5.85	6.06	5.47	5.87	6.12
350'	6.38	6.13	5.73	5.92	5.30	5.70	5.95
370' S.L. ELM 403.21 No. =	6.33	6.08	5.68	5.86	5.24	5.64	5.89
	6.25	6.00	5.60	5.75	5.10	5.50	5.75
SL. ELM	6.25	6.00	5.60	5.75	5.10	5.50	5.75
Curb 14'	6.00 / 5.00	6.00 / 5.00	5.51	5.66	5.01	5.50 / 4.50	5.50 / 4.50
1/4 13'	5.60	4.88	5.43	5.58	4.93	4.37	5.10
℄ 13'	5.75	4.75	5.35	5.50	4.85	4.25	5.25
1/4 13'	5.10 / 4.50	4.62 / 4.50	5.27	5.42	4.77	4.12 / 4.00	4.60 / 4.00
Curb 13'	5.50	5.50	5.19	5.34	4.69	5.00	5.00
ML. ELM 14'	5.75	5.50	5.10	5.25	4.60	5.00	5.25

0.40 N 0

0.35 0/0

Book 1002 Note: These notes are for old grade line of Ord. 6306 and Res. 205311

This equals 210' No. of ML. of Cedar St. on E.

ATLANTIC ST.

	W	Curb	1/4	℄	1/4	Curb	E
M.L. ELM	5.75	5.50	5.10	5.25	4.60	5.00	5.25
50' M.	5.53	5.28	4.88	5.04	4.41	4.81	5.06
100' "	5.31	5.06	4.66	4.84	4.22	4.62	4.87
150'	5.09	4.84	4.44	4.64	4.03	4.43	4.68
200'	4.88	4.63	4.23	4.44	3.84	4.24	4.49
202' M. on West		4.62				4.20	
210' " " East							
250	4.66	4.41	4.01	4.23	3.65	4.05	4.30
300'	4.45	4.20	3.80	4.03	3.46	3.86	4.11
350'	4.23	3.98	3.58	3.82	3.27	3.67	3.92
Section B 400.65' M. =	4.00	3.75	3.35	3.62	3.08	3.48	3.73
0.0 M. on W. } = S.L. GRAPE							
18.1' " " E. }	4.00	3.75	3.35	3.58	3.00	3.40	3.65

		W	Curb	1/4	℄	1/4	Curb	E
		16'		17'	17'	17'	17'	16'
S.L. CEDAR		6.00	5.75	5.35	5.62	5.10	5.50	5.75
Curb	14'	5.75	5.75	5.30	5.55	5.01	5.50	5.50
		4.75	4.75				4.50	4.50
1/4	13'	5.35	4.68	5.26	5.49	4.93	4.37	5.10
℄	13'	5.62	4.62	5.22	5.43	4.85	4.25	5.25
1/4	13'	5.10	4.56	5.18	5.37	4.77	4.12	4.60
Curb	13'	4.50	4.50				4.00	4.00
		5.50	5.50	5.14	5.31	4.69	5.00	5.00
M.L. CEDAR	14'	5.75	5.50	5.10	5.25	4.60	5.00	5.25

ATLANTIC ST.

	W	Curb	¼	℄	¼	Curb	E
M.L. CEDAR	5.75	5.50	5.10	5.25	4.60	5.00	5.25
M.54' No. on E. Section A	5.75	5.50	5.10	5.22	4.54	4.94	5.19
50' M. of Sec A	5.57	5.32	4.92	5.04	4.36	4.76	5.01
100' M.	5.38	5.13	4.73	4.86	4.18	4.58	4.83
150' " 192.5 on E.	5.20	4.95	4.55	4.68	4.01	4.41	4.66
200' M. 202' M. on W.	5.01	4.76	4.36	4.50	3.83	4.25 / 4.23	4.50 / 4.48
250' M.	4.82	4.57	4.17	4.31	3.65	4.05	4.30
300' "	4.63	4.38	3.98	4.12	3.47	3.87	4.12
350'	4.44	4.19	3.79	3.94	3.30	3.70	3.95
370' S.L. of ELM 403.2' No.	4.37	4.12	3.72	3.88	3.24	3.64	3.89
	4.25	4.00	3.60	3.75	3.10	3.50	3.75
S.L. ELM	4.25	4.00	3.60	3.75	3.10	3.50	3.75
Curb	4.00	4.00	2.87	2.75	2.62	3.50	3.50
	3.00	3.00				2.50	2.50
¼	3.60	3.51	3.43	3.35	3.27	3.19	3.10
℄	4.00	3.91	3.83	3.75	3.67	3.59	3.50
¼	3.60	3.51	3.43	3.35	3.27	3.19	3.10
	3.00	3.00				2.50	2.50
Curb	4.00	4.00	2.87	2.75	2.62	3.50	3.50
M.L. ELM	4.25	4.00	3.60	3.75	3.10	3.50	3.75

This equals 210' M. of M.L. of Cedar St. on E.

ATLANTIC ST.

	W	Curb	¼	℄	¼	Curb	E
ΠL. ELM	4.25	4.00	3.60	3.75	3.10	3.50	3.75
50' Π.	4.41	4.16	3.76	3.91	3.26	3.66	3.91
100' "	4.56	4.31	3.91	4.07	3.43	3.83	4.08
150'	4.72	4.47	4.07	4.24	3.60	4.00	4.25
200'	4.86	4.61	4.21	4.38	3.76	4.16	4.41
202' Π. on W.		4.62					
210' Π. on E.						4.20	4.45
250'	4.66	4.41	4.01	4.23	3.65	4.05	4.30
300'	4.45	4.20	3.80	4.03	3.46	3.86	4.11
350'	4.23	3.98	3.58	3.82	3.27	3.67	3.92
Section B 400.65 Πo = 0.0 Πo. on W. 18.12 " " E	4.00	3.75	3.35	3.62	3.08	3.48	3.73
	SL. of GRADE						
	4.00	3.75	3.35	3.58	3.00	3.40	3.65
SL GRADE	4.00	3.75	3.35	3.58	3.00	3.40	3.65
Curb	3.75	3.75	2.66	2.58	2.49	3.40	3.40
	2.75	2.75				2.40	2.40
¼	3.35	3.29	3.24	3.18	3.12	3.06	3.00
℄	3.87	3.80	3.72	3.64	3.55	3.47	3.40
¼	3.60	3.50	3.40	3.30	3.20	3.10	3.00
	3.00	3.00				2.40	2.40
Curb	4.00	4.00	2.85	2.70	2.55	3.40	3.40
ΠL. GRADE	4.25	4.00	3.40	3.70	3.15	3.40	3.65

0.307 %

0.332

6/30/16

ATLANTIC ST.

	W.	Curb	¼	℄	¼	Curb	E
ΠL of "B"	3.65	3.40	3.00	3.40	3.00	3.40	3.65
25' Π.	3.77	3.52	3.12	3.52	3.12	3.52	3.77
50' "	3.89	3.64	3.24	3.64	3.24	3.64	3.89
75'	4.01	3.76	3.36	3.76	3.36	3.76	4.01
100'	4.12	3.87	3.47	3.87	3.47	3.87	4.12
125'	4.23	3.98	3.58	3.98	3.58	3.98	4.23
150'	4.35	4.10	3.70	4.10	3.70	4.10	4.35
175'	4.25	4.00	3.60	3.96	3.52	3.92	4.17
200'	4.15	3.90	3.50	3.82	3.34	3.74	3.99
225'	4.05	3.80	3.40	3.67	3.15	3.55	3.80
250'	3.95	3.70	3.30	3.53	2.97	3.37	3.62
275'	3.85	3.60	3.20	3.39	2.79	3.19	3.44
300' Π. - SL "A" ST.	3.75	3.50	3.10	3.25	2.60	3.00	3.25
SL "A" ST.	3.75	3.50	3.10	3.25	2.60	3.00	3.25
S.Cb.	3.50	3.50	2.37	2.25	2.12	3.00	3.00
	2.50	2.50				2.00	2.00
¼	3.10	3.02	2.94	2.85	2.76	2.68	2.60
℄	3.75	3.67	3.59	3.50	3.41	3.33	3.25
¼	3.10	3.02	2.94	2.85	2.76	2.68	2.60
	2.50	2.50				2.00	2.00
Π.Cb.	3.50	3.50	2.37	2.25	2.12	3.00	3.00
ΠL "A" ST.	3.75	3.50	3.10	3.25	2.60	3.00	3.25

0.467 0.467 0.400 0.733

ATLANTIC ST.

	W	Curb	1/4	℄	1/4	Curb	E
M.L. of A	3.75	3.50	3.10	3.25	2.60	3.00	3.25
25' No.	3.79	3.54	3.14	3.30	2.66	3.06	3.31
50' "	3.83	3.58	3.18	3.35	2.72	3.12	3.37
75' "	3.87	3.62	3.22	3.40	2.78	3.18	3.43
100'	3.92	3.67	3.27	3.46	2.85	3.25	3.50
125'	3.96	3.71	3.31	3.51	2.91	3.31	3.56
150'	4.00	3.75	3.35	3.56	2.98	3.38	3.63
175'	4.04	3.79	3.39	3.61	3.04	3.44	3.69
200'	4.08	3.83	3.43	3.66	3.10	3.50	3.75
225'	4.12	3.87	3.47	3.71	3.16	3.56	3.81
250'	4.16	3.91	3.51	3.77	3.22	3.62	3.87
275'	4.20	3.95	3.55	3.82	3.28	3.68	3.93
300' M = SL. ASH	4.25	4.00	3.60	3.87	3.35	3.75	4.00

0.167 % 0.25 %

ASH ST. INTERSECTION 80' ST.

SL. ASH ST.		4.25	4.00	3.60	3.87	3.35	3.75	4.00
Curb	14'	4.00	4.00	3.69	3.94	3.39	3.75	3.75
		3.00	3.00				2.75	2.75
1/4	13'	3.60	3.12	3.77	4.00	3.43	2.81	3.35
℄	13'	4.25	3.25	3.85	4.06	3.47	2.87	3.87
1/4	13'	4.10	3.37	3.93	4.12	3.51	2.93	3.60
		3.50	3.50				3.00	3.00
Curb	13'	4.50	4.50	4.01	4.18	3.55	4.00	4.00
M.L. ASH	14'	4.75	4.50	4.10	4.25	3.60	4.00	4.25

ATLANTIC ST.

	W	Curb	¼	℄	¼	Curb	E
M.L. ASH	4.75	4.50	4.10	4.25	3.60	4.00	4.25
50' M.	4.83	4.58	4.18	4.35	3.72	4.12	4.37
100' "	4.92	4.67	4.27	4.46	3.85	4.25	4.50
150'	5.00	4.75	4.35	4.56	3.98	4.38	4.62
200'	5.08	4.83	4.43	4.67	4.10	4.50	4.75
250'	5.17	4.92	4.52	4.77	4.22	4.62	4.87
of BEECH ST. 300' M. = S.L.	5.25	5.00	4.60	4.87	4.35	4.75	5.00

0.67% 0.25%

BEECH ST. INTERSECTION 80' ST.

S.L. BEECH	5.25	5.00	4.60	4.87	4.35	4.75	5.00
14' Curb	5.00	5.00	4.69	4.94	4.39	4.75	4.75
13'	4.00	4.00				3.75	3.75
¼	4.60	4.12	4.77	5.00	4.43	3.81	4.35
13' ℄	5.25	4.25	4.85	5.06	4.47	3.87	4.87
13' ¼	5.10	4.37	4.93	5.12	4.51	3.93	4.60
13'	4.50	4.50				4.00	4.00
14' Curb	5.50	5.50	5.00	5.18	4.55	5.00	5.00
M.L. BEECH	5.75	5.50	5.10	5.25	4.60	5.00	5.25

M.L. BEECH	5.75	5.50	5.10	5.25	4.60	5.00	5.25
50' M.	6.00	5.75	5.35	5.54	4.93	5.33	5.58
100'	6.25	6.00	5.60	5.84	5.27	5.67	5.92
150'	6.50	6.25	5.85	6.12	5.60	6.00	6.25
175'	6.42	6.17	5.77	6.05	5.52	5.92	6.17
190'	6.37	6.12	5.72	6.00	5.47	5.87	6.12
210'	6.30	6.05	5.65	5.92	5.40	5.80	6.05
250'	6.17	5.92	5.52	5.80	5.27	5.67	5.92
S.L. CEDAR 300' M. =	6.00	5.75	5.35	5.62	5.10	5.50	5.75

0.50% 0.33% 0.67% 0.33%

7/7/16

See Book 990

70' ST
10' Walks
12½' Quarts

VOLTAIRE STREET

	N	Curb	¼	℄	¼	Curb	S
W.L. Chatsworth							
Section B	117.25	117.00	116.40	116.50	115.85	116.00	116.25
" C	116.85	116.60	116.00	116.30	115.75	116.00	116.25
25' West	115.16	114.91	114.31	114.59	114.03	114.27	114.51
50' "	113.46	113.21	112.61	112.88	112.32	112.55	112.80
75' "	111.77	111.52	110.92	111.17	110.60	110.82	111.07
100'	110.07	109.82	109.22	109.46	108.88	109.10	109.35
125'	108.38	108.13	107.53	107.75	107.16	107.37	107.62
150'	106.69	106.44	105.84	106.04	105.44	105.64	105.89
175'	104.99	104.74	104.14	104.33	103.72	103.92	104.17
200'	103.30	103.05	102.45	102.62	102.00	102.19	102.44
225'	101.60	101.35	100.75	100.91	100.29	100.47	100.72
250'	99.91	99.66	99.06	99.20	98.57	98.74	98.99
275'	98.22	97.97	97.37	97.49	96.85	97.01	97.26
296.87' W. = Sec. D.	96.75	96.50	95.90	96.00	95.35	95.50	95.75
Section E	95.75	95.50	95.10	95.50	95.10	95.50	95.75

Ward

ALLEY - BLOCK 9 - MISSION HILLS

		N		℄		S	
	As Estab	269	66	269	47 Estab	269	27
E. Line Arguella	(Grade)	269	41	269	22	269	02
Sec. A.B. = 0.0 on No. 9.3 on So		269	58			269	19
50' E of Sec. A.B.		270	30	269	84	270	04
75'		270	62	270	16	270	36
100' " " "		270	93	270	48	270	69
Sec. D.C. = Pt. 125.88		271	26	270	82	271	03
25.4' N.E. on S.E. Line		271	53	271	12	271	36
50.8 " " "		271	81	271	42	271	69
76.2 " " "		272	08	271	72	272	02
Sec. E.F. 101.61 " "		272	36	272	03	272	35
25' N. of Sec. E.F.		272	68	272	35	272	67
50' " " " = G.H.	(Grade)	273	00	272	67	273	00
25' N. Sec. G.H. on E. Line		273	21	272	88	273	21
50' " " "		273	41	273	08	273	41
75' " " "	(Grade)	273	62	273	29	273	62
100' " " "		273	99	273	66	273	99
125' " " "		274	37	274	04	274	36
128.09 " "	(Grade)	274	41	274	08	274	41
148.09	(Grade)	274	71	274	38	274	71
168.09	(Grade)	274	60	274	27	274	60
188.09	(Grade)	274	00	273	67	274	00
200'		273	28	272	93	273	24
220.09		272	07	271	67	271	92
225.							
231.25 Sec. I.J.		271	41	270	97	271	19
5.29 N. on E. Line and 0.0' on W. So. Line Hickory	(Grade)	271	41	270	87	270	85

268.44 B.M. 270.04 269.84 270.30 270.62 270.16 270.36
6.40 4.80 5.00 4.54 4.22 4.68 4.48
274.84 H.I. 270.69 271.26 270.82 271.03 271.36 271.12 271.53 271.81
270.48 4.15 3.58 4.02 3.81 3.48 3.72 3.31 3.03
4.36 270.93 271.42 271.69 272.02 271.72 272.08 272.36 272.03
3.91 3.42 3.15 2.82 3.12 2.76 2.48 2.81
272.35 272.67 272.35 272.68 273.00 273.21 273.41 273.62
2.49 5.77 5.45 5.77 5.44 5.12 4.91 4.71 4.50
272.30 H.I.
278.12 273.99 274.41 274.71 274.60 274.00
4.13 3.71 3.41 3.52 4.12
M.H. 273.96 1.48 273.24 272.93 273.28 272.07 271.67
275.48 H.I. 2.24 2.55 2.20 3.41 3.81
6.46 271.92 270.85 271.41 4.61
274.90 H.I. 3.56 4.63 4.07 270.87
269.84 270.16 270.48 270.82 271.12 271.42 271.72 272.03
5.06 4.74 4.42 4.08 3.78 3.48 3.18 2.87
5.70 272.03 272.35 272.67 272.88 273.08 273.29 273.66 274.08
277.73 H.I. 5.38 5.06 4.85 4.65 4.44 4.07 3.65
274.38 274.27 273.67 272.93 271.67
3.35 3.46 4.06 4.80 6.06

15' alley

ALLEY between WALNUT & BROOKES and 3RD and 4TH STS.

287.39 NW Walnut & 4th
283.32 " " Brookes " "

Book 840

	W	℄	E
M.L. Walnut	285.64	285.50	285.85
50' M.	286.22	285.95	286.33
85' "	286.63	286.26	286.66
100'	286.80	286.40	286.80
129	287.00	286.60	287.00
140	287.07	286.67	287.07
+50	287.13		
162.4	287.22	286.82	287.22
188	287.39	287.00	287.39
200	287.48	287.08	287.48
250	287.82	287.42	287.82
274	287.98	287.58	287.98
299.5	288.15	287.75	288.15
308	288.20	287.80	288.20
350	288.49	288.09	288.49
389	288.75	288.35	288.75
400	288.82	288.42	288.82
440	289.10	288.70	289.10
460 ~~455~~	289.08	288.68	289.09
480	288.76	288.36	288.80
500	288.18	287.85	288.32
520	287.29	286.93	287.37
535	286.40	286.05	286.50
540	286.10	285.75	286.21
550	285.36	285.02	285.49
553.4	285.12	284.78	285.25
S.L. of Brookes 560	284.63	284.30	284.77
599.7	281.38	281.50	281.62

0.67 %

S.W.S.
8/22/16

80' ST.
14' Walks
13' Quarters

LA JOLLA BOULEVARD

	W	Curb	¼	℄	¼	Curb	E
Section BC	58.75	58.50	58.72	59.75	60.40	61.00	61.25
" AB	58.75	58.50	58.63	59.56	60.02	60.62	60.87
22' N. of AB	58.11	57.86	57.94	58.82	59.17	59.77	60.02
25' No.	58.02	57.77	57.84	58.72	59.06	59.66	59.91
50' "	57.29	57.04	57.06	57.87	58.10	58.70	59.05
75'	56.56	56.31	56.26	57.02	57.13	57.73	57.98
79'	56.45	56.20	56.14	56.89	56.98	57.58	57.83
90'	56.23	55.98	55.90	56.62	56.66	57.26	57.51
100'	56.03	55.78	55.68	56.38	56.38	56.98	57.23
117'	56.05	55.80	55.67	56.34	56.28	56.88	57.13
125'	56.15	55.90	55.76	56.41	56.32	56.92	57.17
135'	56.35	56.10	55.94	56.58	56.46	57.06	57.31
138'	56.42	56.17	56.00	56.64	56.51	57.11	57.36
150'	56.87	56.62	56.44	57.06	56.90	57.50	57.75
160'	57.28	57.03	56.84	57.44	57.26	57.86	58.11
175'	58.04	57.79	57.58	58.18	57.96	58.56	58.81
200'	59.31	59.06	58.82	59.39	59.12	59.72	59.97
225'	60.57	60.32	60.06	60.60	60.29	60.89	61.14
250'	61.84	61.59	61.19	61.82	61.65	62.05	62.30
275'	63.10	62.85	62.45	63.03	62.81	63.21	63.46
300'	64.37	64.12	63.72	64.25	63.98	64.38	64.63
325'	65.64	65.39	64.99	65.46	65.14	65.54	65.79
350'	66.90	66.65	66.25	66.67	66.30	66.70	66.95
DE = 376.6', on W. = P.C. 378.0 No = P.C.	68.25	68.00	67.60	68.00	67.60	68.00	68.25
centers of curves Sec. GF	68.75	68.50	68.10	68.56	68.12	68.62	68.87
North ends of curves Sec. HI =	69.25	69.00	68.60	69.12	68.82	69.25	69.50

Sept. 8, 1916
J.W.G.

Book 1101

LA JOLLA BOULEVARD

	W	Curb	¼	℄	¼	Curb	E
Section AB	58.75	59.00 / 58.50	58.72	59.75	60.40	61.00	61.25
" CB	58.25	58.45 / 58.00	58.35	59.50	60.40	61.00	61.25
" DE	57.32	57.87 / 57.07	57.38	58.50	59.33	60.39 / 59.93	60.18
" FG	56.81	57.57 / 56.56	56.66	57.55	57.94	58.60 / 58.54	58.79
" HI	56.31	57.27 / 56.06	55.94	56.61	56.56	58.82 / 57.16	57.41
10' N of HI	56.15	57.12 / 55.90	55.77	56.44	56.37	58.66 / 56.97	57.22
25' " "	56.00	55.75	55.60	56.26	56.18	56.78	57.03
41'	56.07	56.60 / 55.82	55.67	56.32	56.22	58.50 / 56.82	57.07
50'	56.29	56.80 / 56.04	55.88	56.52	56.40	58.40 / 57.00	57.25
67	56.84	57.06 / 56.59	56.42	57.04	56.89	59.00 / 57.49	57.74
75	57.19	56.94	56.76	57.38	57.21	57.81	58.06
83	57.57	58.53 / 57.32	57.13	57.74	57.57	59.76 / 58.17	58.42
100	58.49	59.04 / 58.24	58.04	58.63	58.43	60.20 / 59.03	59.28
125	59.84	59.59	59.36	59.94	59.70	60.30	60.55
150	61.19	61.57 / 60.94	60.70	61.26	60.97	62.40 / 61.57	61.82
175	62.54	62.29	62.02	62.56	62.23	62.83	63.08
200	63.89	64.11 / 63.64	63.24	63.87	63.70	64.61 / 64.10	64.35
225	65.25	65.00	64.60	65.18	64.97	65.37	65.62
250	66.60	66.65 / 66.35	65.95	66.50	66.24	66.82 / 66.69	66.89
27.69' = Sec. JK	68.04	68.00 / 67.79	67.39	67.90	67.60	68.00	68.25
Sec. LK	68.25	68.20 / 68.00	67.60	68.00	67.60	68.00	68.25
" MN	68.75	68.60 / 68.50	68.10	68.56	68.22	68.62	68.87
" OP	69.25	69.00	68.60	69.12	68.85	69.25	69.50

See page 24 for corrected notes

10/3/16

80' ST.
20' Walks
10' Qtrs.

29TH Street

	W	Curb	1/4	℄	1/4	Curb	E
SLASH	203.25	203.00	202.60	203.00	202.60	203.00	203.25
25' So.	202.38	202.13	201.71	202.09	201.68	202.06	202.31
37' "	201.96	201.71	201.28	201.66	201.24	201.61	201.86
50' "	201.51	201.26	200.82	201.19	200.76	201.12	201.37
60'	201.16	200.91	200.46	200.82	200.40	200.74	200.99
74	200.67	200.42	199.96	200.32	199.88	200.22	200.47
85	200.29	200.04	199.57	199.92	199.48	199.81	200.06
100	199.77	199.52	199.05	199.38	198.92	199.25	199.50
115	199.25	199.00	198.52	198.83	198.37	198.67	198.92
123	198.97	198.72	198.24	198.54	198.08	198.37	198.62
136	198.52	198.27	197.78	198.08	197.60	197.89	198.14
145	198.21	197.96	197.46	197.76	197.27	197.55	197.80
150	198.03	197.78	197.27	197.58	197.08	197.37	197.62
157	197.77	197.52	197.02	197.30	196.82	197.09	197.34
160	197.67	197.42	196.91	197.20	196.71	196.98	197.23
165	197.49	197.24	196.73	197.02	196.53	196.80	197.05
180	196.97	196.72	196.20	196.48	195.98	196.24	196.49
195	196.46	196.21	195.67	195.94	195.43	195.68	195.93
200	196.29	196.04	195.50	195.77	195.24	195.50	195.75
210	195.94	195.69	195.14	195.41	194.87	195.13	195.38
220	195.59	195.34	194.79	195.04	194.51	194.75	195.00
225	195.41	195.16	194.61	194.86	194.33	194.57	194.82
240	194.90	194.65	194.08	194.33	193.78	194.01	194.26
245	194.73	194.48	193.90	194.15	193.59	193.82	194.07
250	194.55	194.30	193.73	193.96	193.40	193.63	193.88

.6 Bow 3.78%
3.55%
3.68%
3.75%

Continued on next page

Book 989 (Copied from book 91)
" 917

9/13/16 Gregory Moore Miller

CUTS + FILLS

201.77	194.56	196.29	198.03	199.77	201.51							
1.25	2.62	1.94	6.42	3.90	2.16							
202.02	1.44	-.41	-.06	.00	0.0							
202.67	192.86	195.76										
	.479	.792										
	.313	.1.42										
	.502	.135										
198.72	193.32	193.23	195.60	198.52	197.39	197.28	198.03	196.29	196.04	194.54	194.30	
	4.42	4.19	2.62	2.39	.75	.31	.09	1.83	2.08	3.57	3.82	
200.01	N.E. 24	FEET	201.12	201.37	201.46	201.51	199.54	199.77	curb + drop			9/17
1.44			4.33	4.03	4.12	3.94	5.93	5.68				
200.46									Gregory Moore Miller			
200.67												
200.17												

29TH STREET

	W	Curb	1/4	℄	1/4	Curb	E
260' So. of ASH	194.20	193.95	193.37	193.60	193.04	193.26	193.51
265' So.	194.03	193.78	193.20	193.42	192.86	193.07	193.32
274' "	193.71	193.46	192.88	193.09	192.53	192.73	192.98
275.6	.5 low	193.43				.07 e 192.69	
283	193.40	193.15	192.56	192.77	192.19	192.39	192.64
292	193.09	192.84	192.24	192.44	191.85	192.05	192.30
300.6 S.L. of SOUTH PARK	192.81	192.56	191.96	192.16	191.55	191.75	192.00
	NOT OUT TO LINE						

60' Street
10' Walks
10' Quarters

29TH STREET

	W	Curb	1/4	℄	1/4	Curb	E
M.L. of A ST.	190.45	190.20	189.60	189.42	188.63	188.64	188.89
25' Mo.	191.12	190.87	190.27	190.20	189.41	189.54	189.79
32' "	191.31	191.06	190.46	190.42	189.70	189.79	190.04
40'	191.52	2.68 % 191.27	190.67	190.67	189.98	3.58 % 190.08	190.33
63'	192.14	191.89	191.29	191.39	190.74	190.90	191.15
75'	192.46	192.21	191.61	191.77	191.15	191.33	191.58
87.23' on E } = S.L. of South Park 88.37' " W }	192.81	192.56	191.96	192.16	191.55	191.75	192.00

CUTS & FILLS 9/18/16 Gregory Moore Miller

Curbs + props 1/2/17 Gregory Moore Miller

60' Street
10' Walks
10' Quarters

LANDIS STREET

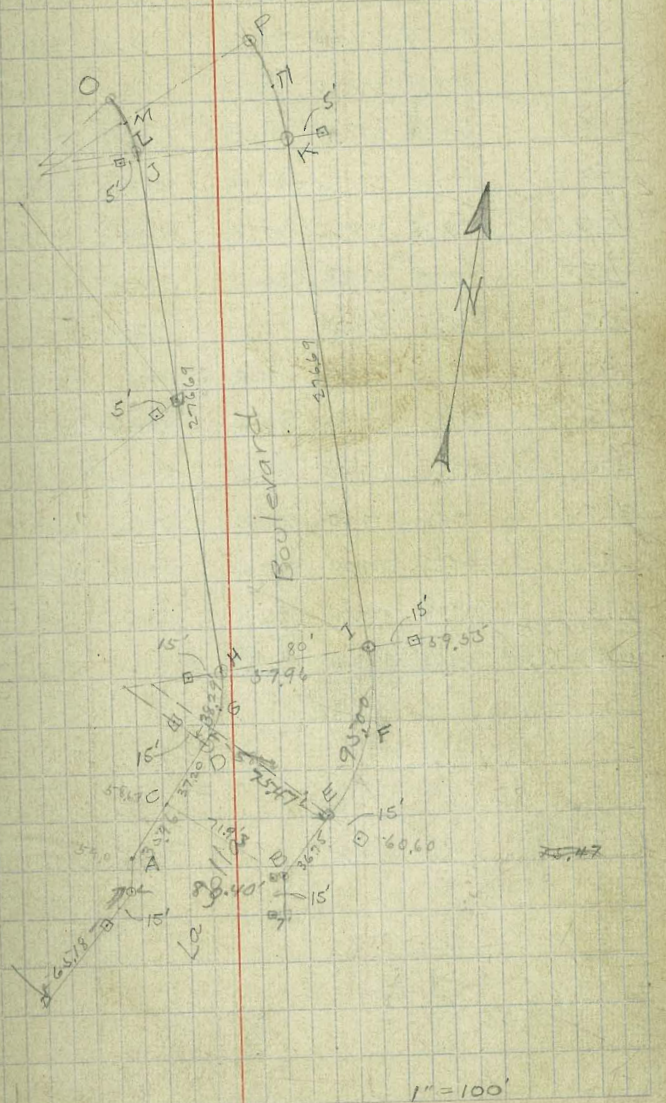
	N.	Curb	1/4	Center	1/4	Curb	S.
W.L. of OREGON	338.25	338.00	337.40	337.75	337.22	337.50	337.75
5' West	337.85	337.60	337.00	337.35	336.82	337.09	337.34
25' "	336.27	336.02	335.42	335.74	335.20	335.47	335.72
50'	334.19	334.04	333.44	333.74	333.19	333.44	333.69
75	332.31	332.06	331.46	331.74	331.18	331.42	331.67
100	330.33	330.08	329.48	329.73	329.16	329.39	329.64
125	328.35	328.10	327.50	327.73	327.14	327.36	327.61
150	326.36	326.11	325.51	325.72	325.12	325.33	325.58
175	324.38	324.13	323.53	323.72	323.11	323.30	323.55
200	322.40	322.15	321.55	321.72	321.10	321.28	321.53
225	320.42	320.17	319.57	319.71	319.08	319.25	319.50
263	317.41	317.16	316.56	316.66	316.01	316.16	316.41
VILLA TERRACE 265' W. = E.L. of	317.25	317.00	316.40	316.50	315.85	316.00	316.25
	Note: Villa Terrace is graded.						
W.L. VILLA TERRACE	316.25	316.00	315.40	315.50	314.85	315.00	315.25
7' West	315.63	315.38	314.78	314.88	314.23	314.39	314.64
25' "	314.03	313.78	313.18	313.30	312.66	312.83	313.08
50'	311.82	311.57	310.97	311.12	310.49	310.66	310.91
75	309.60	309.35	308.75	308.92	308.30	308.49	308.74
100	307.38	307.13	306.53	306.72	306.12	306.32	306.57
125	305.17	304.92	304.32	304.53	303.94	304.15	304.40
150	302.95	302.70	302.10	302.34	301.76	301.98	302.23
175	300.73	300.48	299.88	300.14	299.58	299.81	300.06
200	298.51	298.26	297.66	297.95	297.40	297.64	297.89
225	296.30	296.05	295.45	295.76	295.22	295.47	295.72
263	292.93	292.68	292.08	292.42	291.90	292.17	292.42
ARNOLD ST. 265' W. = E.L. of	292.75	292.50	291.90	292.25	291.72	292.00	292.25

S.W.G. 9/21/16

Final grades for LA JOLLA BOULEVARD
see page 32

	W	Curb	¼	℄	¼	Curb	E
Section AB	59.25	59.00	59.10	60.00	60.40	61.00	61.25
" CB	58.69	58.44	58.68	59.72	60.40	61.00	61.25
" DE	58.11	57.86	58.10	59.13	59.80	60.40	60.65
" GF	57.81	57.56	57.67	58.58	59.01	59.61	59.86
" H.I.	57.52	57.27	57.26	58.04	58.22	58.82	59.07
10' No. of HI.	57.37	57.12	57.10	57.89	58.06	58.66	58.91
25' No. "	57.27	57.02	57.00	57.79	57.92	58.52	58.77
30' "	57.23	56.98	56.95	57.73	57.88	58.48	58.73
41'	57.32	57.07	57.04	57.80	57.94	58.54	58.79
50'	57.41	57.16	57.12	57.88	58.00	58.60	58.85
67'	57.85	57.60	57.54	58.28	58.37	58.97	59.22
70'	57.93	57.68	57.62	58.36	58.43	59.03	59.28
75'	58.14	57.89	57.82	58.55	58.61	59.21	59.46
83'	58.48	58.23	58.15	58.87	58.91	59.51	59.76
90'	58.78	58.53	58.44	59.14	59.16	59.76	60.01
100	59.29	59.04	58.93	59.62	59.60	60.20	60.45
125	60.56	60.31	60.16	60.80	60.70	61.30	61.55
150	61.83	61.58	61.38	61.99	61.80	62.40	62.65
175	63.10	62.85	62.62	63.18	62.90	63.50	63.75
200	64.37	64.12	63.72	64.36	64.21	64.61	64.86
225	65.64	65.39	64.99	65.55	65.31	65.71	65.96
250	66.91	66.66	66.26	66.73	66.41	66.81	67.06
27.69' = Sec JK	68.25	68.00	67.60	68.00	67.60	68.00	68.25
Sec LK	68.36	68.11	67.71	68.05	67.60	68.00	68.25
" MN	68.80	68.55	68.15	68.58	68.22	68.62	68.87
" OP	69.25	69.00	68.60	69.12	68.85	69.25	69.50

Tie outs for La Jolla Blvd. points
Died out by Childs 10/6/16



OCT. 11, 1916 S.W.G.

See page 32

80' St.
14' Walks
13' Quarters

MONROE AVENUE

	S	Curb	¼	℄	¼	Curb	Π
E.L. OREGON	379.25	379.00	378.60	379.00	378.60	379.00	379.25
5' East	379.21	378.96	378.56	378.96	378.56	378.96	379.21
25' "	379.05	378.80	378.40	378.80	378.40	378.80	379.05
50'	378.85	378.60	378.20	378.60	378.20	378.60	378.85
65	378.73	378.48	378.08	378.48	378.08	378.48	378.73
80	378.61	378.36	377.96	378.36	377.96	378.36	378.61
100	378.45	378.20	377.80	378.20	377.80	378.20	378.45
115	378.33 0.60	378.08	377.68	378.08	377.68	378.08	378.33
125	378.25 0.60	378.00	377.60	378.00	377.60	378.00	378.25
150	378.05	377.80	377.40	377.80	377.40	377.80	378.05
175	377.85	377.60	377.20	377.60	377.20	377.60	377.85
200	377.65	377.40	377.00	377.40	377.00	377.40	377.65
225	377.45	377.20	376.80	377.20	376.80	377.20	377.45
250	377.25	377.00	376.60	377.00	376.60	377.00	377.25
275	377.05	376.80	376.40	376.80	376.40	376.80	377.05
IDAHO ST. 300' E = W.L. of	376.85	376.60	376.20	376.60	376.20	376.60	376.85

10/10/16

SWG.

287.39 N.W. 4th & Walnut plg rt.

283.3 N.W. 4th & Brooks plg rt.

VOLTAIRE STREET

70' Street
10' Walks
12½' Quarters

	S	Curb	¼	℄	¼	Curb	N
W.L. CHATSWORTH or Section A	118.25	118.00	117.85	118.50	118.40	119.00	119.25
" B	117.25	117.00	116.85	117.50	117.40	118.00	118.25
" C	117.25	117.00	116.79	117.38	117.17	117.77	118.02
25' West	116.22	115.97	115.78	116.38	116.20	116.80	117.05
50' "	115.19	114.94	114.76	115.38	115.23	115.83	116.08
75'	114.16	113.91	113.74	114.38	114.26	114.86	115.11
96.9	113.25	113.00	112.85	113.50	113.40	114.00	114.25
100	113.01	112.76	112.61	113.26	113.16	113.76	114.01
125	111.01	110.76	110.62	111.27	111.18	111.78	112.03
150	109.01	108.76	108.62	109.28	109.20	109.80	110.05
175	107.01	106.76	106.62	107.29	107.22	107.82	108.07
200	105.01	104.76	104.63	105.30	105.25	105.85	106.10
225	103.01	102.76	102.64	103.32	103.27	103.87	104.12
250	101.01	100.76	100.64	101.32	101.29	101.89	102.14
275	99.01	98.76	98.65	99.34	99.31	99.91	100.16
296.9 W. = Sec. D	97.25	97.00	96.89	97.58	97.57	98.17	98.42
Sec. E	97.25	97.00	96.60	97.00	96.60	97.00	97.25
E.L. VILLA DR.	96.52	96.27	95.87	96.33	96.00	96.39	96.64
E.L. VILLA DR.	96.52	96.27	95.87	96.33	96.00	96.39	96.64
Curb	96.27	96.27	95.57	96.03	95.72	96.39	96.39
	95.27	95.27				95.39	95.39
¼	95.67	94.70	95.20	95.68	95.37	94.96	95.79
℄	95.14	94.14	94.82	95.33	95.02	94.52	95.52
¼	94.18	93.58	94.44	94.98	94.67	94.08	94.68
	93.02	93.02				93.64	93.64
Curb	94.02	94.02	94.07	94.63	94.32	94.64	94.64
W.L. VILLA DR.	94.27	94.02	93.77	94.33	94.04	94.64	94.89

4.124%
8%
3.884%
7.914%
10.6' 13.2 13.2 13.2 13.2 10.6'
10.3 12.8 12.8 12.8 12.8 10.3
10' 12½ 12½ 12½ 12½ 10'

Note: Revised and final notes begin on page 34

VOLTAIRE STREET

	S	Curb	¼	℄	¼	Curb	Π
W.L. VILLA DR.	94.27	94.02	93.77	94.33	94.04	94.64	94.89
Section F	93.50	93.25	93.04	93.62	93.40	94.00	94.25
" G	92.83	92.58	93.04	93.29	93.40	94.00	94.25
25' West	91.08	90.83	90.78	91.52	91.62	92.22	92.47
50' West	89.33	89.08	89.02	89.75	89.83	90.43	90.68
75' "	87.58	87.33	87.26	87.98	88.04	88.64	88.89
100'	85.83	85.58	85.50	86.22	86.26	86.86	87.11
110'	85.13	84.88	84.80	85.52	85.55	86.15	86.40
125'	84.08	83.83	83.74	84.45	84.48	85.08	85.33
PT. LOMA VILLAS 160.2 W. = W.L.	81.64	81.39	81.28	81.98	81.98	82.58	82.83
5' West	81.29	81.04	80.94	81.63	81.62	82.22	82.47
20' "	80.25	80.00	79.88	80.57	80.54	81.14	81.39
25' "	79.95	79.70	79.58	80.27	80.23	80.83	81.08
45'	78.72	78.47	78.34	79.02	78.97	79.57	79.82
58	78.15	77.90	77.78	78.45	78.40	79.00	79.25
64	77.89	77.64	77.51	78.18	78.13	78.73	78.98
70	77.63	77.38	77.25	77.92	77.85	78.45	78.70
73	77.55	77.30	77.17	77.84	77.77	78.37	78.62
85	77.25	77.00	76.86	77.52	77.43	78.03	78.28
95	76.98	76.73	76.58	77.24	77.15	77.75	78.00
100	76.93	76.68	76.54	77.19	77.11	77.71	77.96
120	76.75	76.50	76.36	77.02	76.94	77.54	77.79
125	76.80	76.55	76.41	77.07	76.98	77.58	77.83
145	76.98	76.73	76.58	77.23	77.13	77.73	77.98
150	77.11	76.86	76.71	77.36	77.26	77.86	78.11
170	77.63	77.38	77.23	77.88	77.78	78.38	78.63
175	77.85	77.60	77.45	78.10	78.00	78.60	78.85
195	78.72	78.47	78.32	78.97	78.87	79.47	79.72
200	79.03	78.78	78.63	79.28	79.18	79.78	80.03
220	80.25	80.00	79.85	80.50	80.40	81.00	81.25

VOLTAIRE STREET

	S	Curb	¼	℄	¼	Curb	Π
(LOMA VILLAS 220' W. of PT.	80.25	80.00	79.85	80.50	80.40	81.00	81.25
225' W.	80.60	80.35	80.20	80.85	80.75	81.35	81.60
250	82.35	82.10	81.95	82.60	82.50	83.10	83.35
260	83.05	82.80	82.65	83.30	83.20	83.80	84.05
(Warrington St. 270' W. = E.L.	83.75	83.50	83.35	84.00	83.90	84.50	84.75
E.L. Warrington	83.75	83.50	83.35	84.00	83.90	84.50	84.75
Curb (10')	83.50	83.50	83.55	84.20	84.10	84.50	84.50
(7½)	82.50	82.50				83.50	83.50
¼ (7½)	83.35	83.35	83.70	84.35	84.25	83.75	84.35
℄ (7½)	84.00	83.00	83.85	84.50	84.40	84.00	8.500
¼ (7½)	83.90	83.25	84.00	84.65	84.55	84.25	84.90
(7½)	83.50	83.50				84.50	84.50
Curb (10')	84.50	84.50	84.15	84.80	84.70	85.50	85.50
W.L. Warrington	84.75	84.50	84.35	85.00	84.90	85.50	85.75
W.L. Warrington	84.75	84.50	84.35	85.00	84.90	85.50	85.75
25' W.	86.50	86.25	86.10	86.75	86.65	87.25	87.50
50' "	88.25	88.00	87.85	88.50	88.40	89.00	89.25
75'	90.00	89.75	89.60	90.25	90.15	90.75	91.00
100'	91.75	91.50	91.35	92.00	91.90	92.50	92.75
125	93.15	92.90	92.74	93.38	93.27	93.87	94.12
150	94.55	94.30	94.14	94.78	94.65	95.25	96.10
175	95.27	95.02	94.83	95.44	95.27	95.87	96.12
200	96.00	95.75	95.54	96.12	95.90	96.50	96.75
225	96.02	95.77	95.37	96.01	95.85	96.25	96.50
250	96.05	95.80	95.40	95.90	95.60	96.00	96.25
275	95.40	95.15	94.75	95.20	94.85	95.25	95.50
(Worden St. 300 W. = E.L. of	94.75	94.50	94.10	94.50	94.10	94.50	94.75

V.C. with 50 ft. chords — 7%

V.C. with 50' chords — 7%

VOLTAIRE STREET

	S	Curb	¼	℄	¼	Curb	Π
E.L. Worden St.	94.75	94.50	94.10	94.50	94.10	94.50	94.75
Curb	94.50	94.50	93.80	94.20	93.80	94.50	94.50
	93.50	93.50				93.50	93.50
¼	93.90	93.12	93.58	93.98	93.58	93.12	93.90
℄	93.75	92.75	93.35	93.75	93.35	92.75	93.75
¼	92.97	92.37	93.12	93.52	93.12	92.37	92.97
	92.00	92.00				92.00	92.00
Curb	93.00	93.00	92.90	93.30	92.90	93.00	93.00
W.L. Worden St.	93.25	93.00	92.60	93.00	92.60	93.00	93.25
W.L. Worden St.	93.25	93.00	92.60	93.00	92.60	93.00	93.25
25' W.	91.25	91.00	90.60	91.00	90.60	91.00	91.25
50' "	89.25	89.00	88.60	89.00	88.60	89.00	89.25
75'	87.25	87.00	86.60	87.00	86.60	87.00	87.25
100'	85.25	85.00	84.60	85.00	84.60	85.00	85.25
125	83.25	83.00	82.60	83.00	82.60	83.00	83.25
150	81.25	81.00	80.60	81.00	80.60	81.00	81.25
175	79.25	79.00	78.60	79.00	78.60	79.00	79.25
200	77.25	77.00	76.60	77.00	76.60	77.00	77.25
225	75.25	75.00	74.60	75.00	74.60	75.00	75.25
250	73.25	73.00	72.60	73.00	72.60	73.00	73.25
275	71.25	71.00	70.60	71.00	70.60	71.00	71.25
Wells St. 300' W. = E.L.	69.25	69.00	68.60	69.00	68.60	69.00	69.25

Smy
10/24/16

VOLTAIRE STREET

	S	Curb	1/4	℄	1/4	Curb	N
E.L. Wells St.	69.25	69.00	68.60	69.00	68.60	69.00	69.25
Curb 10	69.00	69.00	68.40	68.80	68.40	69.00	69.00
	68.00	68.00				68.00	68.00
1/4 7½	68.40	67.75	68.25	68.65	68.25	67.75	68.40
℄ 7½	68.50	67.50	68.10	68.50	68.10	67.50	68.50
1/4 7½	67.85	67.25	67.95	68.35	67.95	67.25	67.85
	67.00	67.00				67.00	67.00
Curb 7½	68.00	68.00	67.80	68.20	67.80	68.00	68.00
W.L. Wells 10	68.25	68.00	67.60	68.00	67.60	68.00	68.25
W.L. Wells St.	68.25	68.00	67.60	68.00	67.60	68.00	68.25
10' W.	68.40	68.15	67.75	68.15	67.75	68.15	68.40
25' "	68.63	68.38	67.98	68.38	67.98	68.38	68.63
50'	69.00	68.75	68.35	68.75	68.35	68.75	69.00
60'	69.15	68.90	68.50	68.90	68.50	68.90	69.15
75	69.37	69.12	68.72	69.12	68.72	69.12	69.37
85	69.52	69.27	68.87	69.27	68.87	69.27	69.52
110	69.90	69.65	69.25	69.65	69.25	69.65	69.90
130	70.20	69.95	69.55	69.95	69.55	69.95	70.20
150	70.50	70.25	69.85	70.25	69.85	70.25	70.50
185	71.03	70.78	70.38	70.78	70.38	70.78	71.03
200	71.25	71.00	70.60	71.00	70.60	71.00	71.25
225	71.63	71.38	70.98	71.38	70.98	71.38	71.63
240	71.85	71.60	71.20	71.60	71.20	71.60	71.85
252	72.03	71.78	71.38	71.78	71.38	71.78	72.03
275	72.37	72.12	71.72	72.12	71.72	72.12	72.37
280	72.45	72.20	71.80	72.20	71.80	72.20	72.45
300	72.33	72.08	71.68	72.08	71.68	72.08	72.33
325	72.19	71.94	71.54	71.94	71.54	71.94	72.19
350	72.04	71.79	71.39	71.79	71.39	71.79	72.04
375	71.90	71.65	71.25	71.65	71.25	71.65	71.90
San Clemente St. 400' W. = E.L. of.	71.75	71.50	71.10	71.50	71.10	71.50	71.75

+1.50%

1.50%

0.58%

0.58%

Turn to page 34 for revised grades

Final grades for La Jolla Boulevard

	W	Curb	¼	℄	¼	Curb	E
Section AB	59.25	59.00	59.10	60.00	60.40	61.00	61.25
" CB	58.92	58.67	58.85	59.84	60.40	61.00	61.25
" DE	58.57	58.32	58.49	59.46	60.00	60.60	60.85
" GF	58.39	58.14	58.22	59.11	59.48	60.08	60.33
" HI	58.21	57.96	57.96	58.76	58.96	59.56	59.81
10' No. of HI	58.12	57.87	57.86	58.66	58.85	59.45	59.70
25' "	57.98	57.73	57.72	58.50	58.68	59.28	59.53
30'	57.93	57.68	57.66	58.45	58.63	59.23	59.48
41	57.83	57.58	57.56	58.34	58.50	59.10	59.35
change grade 50	57.75	57.50	57.48	58.25	58.40	59.00	59.25
67	58.54	58.29	58.24	58.98	59.07	59.67	59.92
70	58.67	58.42	58.36	59.10	59.19	59.79	60.04
75	58.90	58.65	58.58	59.32	59.39	59.99	60.24
83	59.28	59.03	58.95	59.67	59.71	60.31	60.56
90	59.60	59.35	59.26	59.97	60.00	60.59	60.84
100	60.07	59.82	59.71	60.40	60.39	60.99	61.24
125	61.23	60.98	60.83	61.48	61.38	61.98	62.23
150	62.39	62.14	61.95	62.56	62.38	62.98	63.23
175	63.55	63.30	63.06	63.63	63.37	63.97	64.22
200	64.70	64.45	64.17	64.70	64.36	64.96	65.21
225	65.86	65.61	65.21	65.78	65.56	65.96	66.21
250	67.02	66.77	66.37	66.86	66.55	66.95	67.20
2669' = Sec. JK	68.25	68.00	67.60	68.00	67.60	68.00	68.25
Sec. LK	68.36	68.11	67.71	68.05	67.60	68.00	68.25
" MN	68.80	68.55	68.15	68.58	68.22	68.62	68.87
" OP	69.25	69.00	68.60	69.12	68.85	69.25	69.50

From page 24

Nov. 1-1916

SWG

Nov. 11/16

70' St.
10' Walks
12½' Quarters

ALBATROSS STREET

	W	Curb	¼	℄	¼	Curb	E
M.L. Robinson	266.25	266.00	265.85	266.50	266.40	267.00	267.25
25' No.	266.51	266.26	266.10	266.75	266.64	267.24	267.49
50' "	266.77	266.52	266.36	267.00	266.87	267.47	267.72
75'	267.03	266.78	266.61	267.24	267.11	267.71	267.96
100	267.28	267.03	266.86	267.49	267.35	267.95	268.20
116	267.45	267.20	267.02	267.65	267.50	268.10	268.35
125	267.54	267.29	267.12	267.74	267.59	268.19	268.44
136	267.65	267.40	267.20	267.80	267.60	268.20	268.45
150	267.65	267.40	267.20	267.80	267.60	268.20	268.45
156	267.65	267.40	267.20	267.80	267.60	268.20	268.45
175	267.55	267.30	267.07	267.65	267.40	268.00	268.25
176	267.55	267.30	267.07	267.65	267.40	268.00	268.25
196	267.25	267.00	266.75	267.30	267.00	267.20	267.85
200	267.17	266.92	266.66	267.21	266.90	267.50	267.75
216	266.85	266.60	266.32	266.85	266.50	267.10	267.35
225	266.54	266.29	266.01	266.54	266.19	266.79	267.04
230	266.36	266.11	265.84	266.36	266.01	266.61	266.86
250	265.66	265.41	265.13	265.66	265.31	265.91	266.16
275	264.79	264.54	264.26	264.79	264.44	265.04	265.29
290	264.27	264.02	263.74	264.27	263.92	264.52	264.77

267.06 NE Pin
5.70
272.76

266	266.68	267.17	267.35	266.90	267.50
6.76	5.91	5.1	4.9	5.36	6.5
+0.7	+1.0	+0.6	+0.3	0.0	0.0

Set 10' wax ℄. For Gas Co. 12/3/21 Lockport

267.06
5.70
272.76

267.80	268.35	268.45	268.45	268.45	268.45
4.46	3.91	3.81	3.81	4.41	4.91	7.01
+0.6	+1.2	+1.8	+1.6	+2.1	+1.9
266.85	267.45	267.65	267.45	266.85	264.75
5.41	4.81	4.61	5.01	5.61	7.51
+0.9	+1.0	+0.5	-0.3	-0.5	-12.0

Smy
11/8/16

Book 966

	WL	WC	WG	W¼	℄	E¼	EG	EC	EL
M.L. Robinson	266.25	266.00	265.00	266.00	266.50	266.50	266.00	267.00	267.25
25' N	266.51	266.26	265.26	266.25	266.75	266.74	266.24	267.24	267.49
50	266.77	266.52	265.52	266.50	267.00	266.98	266.47	267.47	267.72
58	266.85								267.80
75	267.03	266.78	265.78	266.76	267.24	267.22	266.71	267.71	267.96
100	267.28	267.03	266.03	267.01	267.49	267.47	266.95	267.95	268.20
116	267.45	267.20	266.20	267.17	267.65	267.62	267.10	268.10	268.35
125	267.54	267.29	266.29	267.25	267.72	267.68	267.15	268.15	268.40
136	267.65	267.40	266.40	267.35	267.80	267.75	267.20	268.20	268.45
150	267.65	267.40	266.40	267.35	267.80	267.75	267.20	268.20	268.45
156	267.65	267.40	266.40	267.35	267.80	267.75	267.20	268.20	268.45
175	267.55	267.30	266.30	267.21	267.61	267.51	266.91	267.91	268.16
176	267.55	267.30	266.30	267.20	267.60	267.50	266.90	267.90	268.15
196	267.25	267.0	266.00	266.90	267.30	267.20	266.60	267.60	267.85
200	267.17	266.92	265.92	266.81	267.21	267.10	266.50	267.50	267.75
216	266.85	266.60	265.60	266.47	266.85	266.72	266.10	267.10	267.35
225	266.53	266.28	265.28	266.15	266.53	266.40	265.78	266.78	267.03
230	266.35	266.10	265.10	265.97	266.35	266.22	265.60	266.60	266.85
250	265.64	265.39	264.39	265.26	265.64	265.51	264.89	265.89	266.14
275	264.75	264.50	263.50	264.37	264.75	264.62	264.00	265.00	265.25
290	264.22	263.97	262.97	263.84	264.22	264.09	263.47	264.47	264.72

x 45' from ℄

x 43.0' from ℄

x Vertical curve

SEE PAGE 39 for grades as set. These grades are not figured correctly

VOLTAIRE STREET

	S	Curb	¼	℄	¼	Curb	⊓
W.L. Chatsworth or Section A	118.25	118.00	118.10	119.00	119.40	120.00	120.25
Section C 2987	117.25	117.00	117.02	117.83	118.05	118.65	118.90
25' West	116.22	115.97	116.00	116.82	117.06	117.66	117.91
41.65' "	115.53	115.28	115.31	116.14	116.40	117.00	117.25
50' "	115.19	114.94	114.94	115.74	115.94	116.54	116.79
75	114.15	113.90	113.82	114.54	114.58	115.18	115.43
96.9	113.25	113.00	112.85	113.50	113.40	114.00	114.25
100	113.01	112.76	112.61	113.26	113.15	113.75	114.00
125	111.01	110.76	110.61	111.26	111.17	111.77	112.02
150	109.01	108.76	108.61	109.27	109.19	109.79	110.04
175	107.01	106.76	106.62	107.29	107.22	107.82	108.07
200	105.01	104.76	104.63	105.30	105.24	105.84	106.09
225	103.01	102.76	102.63	103.31	103.26	103.86	104.11
250	101.01	100.76	100.64	101.32	101.28	101.88	102.13
275	99.01	98.76	98.64	99.33	99.30	99.90	100.15
296.9 W = Sec. D	97.25	97.00	96.89	97.58	97.57	98.17	98.42
Sec. E		97.00		97.00		97.00	97.25
E.L. Villa Drive	95.25	95.00	94.60	95.00	94.60	95.00	95.25
E.L. Villa Drive	95.25	95.00	94.60	95.00	94.60	95.00	95.25
Curb	95.00	95.00	94.31	94.71	94.31	95.00	95.00
	94.00	94.00				94.00	94.00
¼	94.40	93.50	93.96	94.36	93.96	93.50	94.40
℄	94.00	93.00	93.60	94.00	93.60	93.00	94.00
¼	93.10	92.50	93.24	93.64	93.24	92.50	93.10
	92.00	92.00				92.00	92.00
Curb	93.00	93.00	92.89	93.29	92.89	93.00	93.00
W.L. Villa Drive	93.25	93.00	92.60	93.00	92.60	93.00	93.25

10' 12½ 12½ 12½ 10'

4.12 9%

5.43 5%

3.963%

5.22

7.14 7%

VOLTAIRE STREET

	S	Curb	¼	℄	¼	Curb	Π
W.L. VILLA DR.	93.25	93.00	92.60	93.00	92.60	93.00	93.25
Section F	91.75	91.50	91.10	91.50	91.10	91.50	91.75
" G	91.14	90.89	90.49	91.20	91.10	91.50	91.75
25' West	89.55	89.30	88.90	89.58	89.45	89.85	90.10
50' "	87.95	87.70	87.30	87.95	87.80	88.20	88.45
75'	86.36	86.11	85.71	86.33	86.15	86.55	86.80
100'	84.76	84.51	84.11	84.70	84.50	84.90	85.15
110	84.13	83.88	83.48	84.06	83.84	84.24	84.49
125	83.17	82.92	82.52	83.08	82.84	83.24	83.49
(of PT. LOMA VILLAS 160.22' W=W.L.	80.93	80.68	80.28	80.80	80.52	80.92	81.17
5' West	80.61	80.36	79.96	80.48	80.19	80.59	80.84
20' "	79.65	79.40	79.00	79.50	79.20	79.60	79.85
25' "	79.37	79.12	78.72	79.22	78.91	79.31	79.56
45'	78.26	78.01	77.61	78.09	77.76	78.16	78.41
58	77.76	77.51	77.11	77.57	77.23	77.63	77.88
64	77.53	77.28	76.88	77.34	77.00	77.39	77.64
70	77.29	77.04	76.64	77.10	76.75	77.15	77.40
73	77.22	76.97	76.57	77.02	76.68	77.08	77.33
85	76.95	76.70	76.30	76.75	76.40	76.80	77.05
95	76.73	76.48	76.08	76.52	76.16	76.56	76.81
100	76.70	76.45	76.05	76.49	76.13	76.53	76.78
120	76.60	76.35	75.95	76.37	76.00	76.40	76.65
125	76.64	76.39	76.00	76.42	76.05	76.45	76.70
145	76.78	76.53	76.13	76.60	76.26	76.66	76.91
150	76.94	76.69	76.29	76.75	76.40	76.80	77.05
170	77.59	77.34	76.94	77.34	76.95	77.35	77.60
175	77.81	77.56	77.16	77.56	77.17	77.57	77.82
195	78.71	78.46	78.06	78.46	78.06	78.46	78.71
200	79.02	78.77	78.37	78.77	78.37	78.77	79.02
220	80.25	80.00	79.60	80.00	79.60	80.00	80.25
225	80.60	80.35	79.95	80.35	79.95	80.35	80.60
250	82.35	82.10	81.70	82.10	81.70	82.10	82.35
260	83.05	82.80	82.40	82.80	82.40	82.80	83.05
Warrington St. 270 W.=EL pt	83.75	83.50	83.10	83.50	83.10	83.50	83.75

63778 ft. to 187.72 ft.

66.03 ft. to 180.22 ft.

7.96

7.96

VOLTAIRE STREET

	S.	Curb	1/4	℄	1/4	Curb	M.
E.L. Warrington	83.75	83.50	83.10	83.50	83.10	83.50	83.75
Curb 10'	83.50	83.50	83.30	83.70	83.30	83.50	83.50
	82.50	82.50				82.50	82.50
1/4 7½	83.35	82.75	83.45	83.85	83.45	82.75	83.35
Center 7½	84.00	83.00	83.60	84.00	83.60	83.00	84.00
1/4 7½	83.90	83.25	83.75	84.15	83.75	83.25	83.90
	83.50	83.50				83.50	83.50
Curb 7½	84.50	84.50	83.90	84.30	83.90	84.50	84.50
W.L. Warrington 10'	84.75	84.50	84.10	84.50	84.10	84.50	84.75
W.L. Warrington	84.75	84.50	84.10	84.50	84.10	84.50	84.75
25' W.	86.12	85.87	85.47	86.00	85.72	86.12	86.37
50' "	87.50	87.25	86.98	87.50	87.15	87.75	88.00
75'	88.87	88.62	88.41	89.00	88.78	89.38	89.63
100	90.25	90.00	89.85	90.50	90.40	91.00	91.25
125	91.50	91.25	91.16	91.86	91.88	92.48	92.73
150	92.47	92.22	92.20	92.99	93.06	93.66	93.91
175	93.18	92.93	92.94	93.74	93.94	94.54	94.79
200	93.62	93.37	93.40	94.24	94.52	95.12	95.37
225	93.80	93.55	93.62	94.48	94.81	95.41	95.66
250	93.72	93.47	93.56	94.44	94.81	95.41	95.66
275	93.37	93.12	93.22	94.11	94.50	95.10	95.35
Worden St. 300' W. = E.L. of	92.75	92.50	92.60	93.50	93.90	94.50	94.75

5.5% V.C.

6.5% V.C.

VOLTAIRE STREET

	S	Curb	1/4	℄	1/4	Curb	M
E.L. Worden	92.75	92.50	92.60	93.50	93.90	94.50	94.75
Curb 10'	92.50	92.50	92.30	93.20	93.60	94.50	94.50
1/4 7½	91.50 91.90	91.50 91.12	92.08	92.98	93.38	93.50 93.12	93.50 93.90
Center 7½	91.75	90.75	91.85	92.75	93.15	92.75	93.75
1/4 7½	90.98	90.38	91.62	92.52	92.92	92.38	92.98
Curb 7½	90.00 91.00	90.00 91.00	91.40	92.30	92.70	92.00 93.00	92.00 93.00
W.L. Worden 10'	91.25	91.00	91.10	92.00	92.40	93.00	93.25
W.L. Worden	91.25	91.00	91.10	92.00	92.40	93.00	93.25
25' W.	89.25	89.00	89.10	90.00	90.40	91.00	91.25
50' "	87.25	87.00	87.10	88.00	88.40	89.00	89.25
75'	85.25	85.00	85.10	86.00	86.40	87.00	87.25
100	83.25	83.00	83.10	84.00	84.40	85.00	85.25
125	81.25	81.00	81.10	82.00	82.40	83.00	83.25
150	79.25	79.00	79.10	80.00	80.40	81.00	81.25
175	77.25	77.00	77.10	78.00	78.40	79.00	79.25
200	75.25	75.00	75.10	76.00	76.40	77.00	77.25
225	73.25	73.00	73.10	74.00	74.40	75.00	75.25
250	71.25	71.00	71.10	72.00	72.40	73.00	73.25
275	69.25	69.00	69.10	70.00	70.40	71.00	71.25
Wells St. 300' W. = E.L. of	67.25	67.00	67.10	68.00	68.40	69.00	69.25

VOLTAIRE STREET

	S.	Curb	1/4	℄	1/4	Curb	M.
EL of Wells St.	67.25	67.00	67.10	68.00	68.40	69.00	69.25
Curb	67.00	67.00	66.90	67.80	68.20	69.00	69.00
1/4	66.00 66.40	66.00 65.75	66.75	67.65	67.95	68.00 67.75	68.00 68.40
℄	66.50	65.50	66.60	67.50	67.80	67.50	68.50
1/4	65.85	65.25	66.45	67.35	67.75	67.25	67.85
Curb	65.00 66.00	65.00 66.00	66.30	67.20	67.60	67.00 68.00	67.00 68.00
W.L. Wells St.	66.25	66.00	66.10	67.00	67.40	68.00	68.25
W.L. Wells St.	66.25	66.00	66.10	67.00	67.40	68.00	68.25
10' W.	66.47	66.22	66.30	67.18	67.55	68.15	68.40
25' "	66.80	66.55	66.60	67.46	67.78	68.38	68.63
50'	67.35	67.10	67.11	67.92	68.15	68.75	69.00
60	67.57	67.32	67.32	68.11	68.30	68.90	69.15
75	67.91	67.66	67.62	68.39	68.52	69.12	69.37
85	68.13	67.88	67.83	68.58	68.67	69.27	69.52
110	68.68	68.43	68.33	69.04	69.05	69.65	69.90
130	69.12	68.87	68.74	69.41	69.35	69.95	70.20
150	69.56	69.31	69.14	69.78	69.65	70.25	70.50
185	70.34	70.09	69.86	70.43	70.18	70.78	71.03
200	70.68	70.43	70.18	70.72	70.40	71.00	71.25
225	71.23	70.98	70.58	71.18	70.98	71.38	71.63
240	71.56	71.31	70.91	71.45	71.20	71.60	71.85
252	71.83	71.58	71.18	71.68	71.38	71.78	72.03
275	72.34	72.09	71.69	72.10	71.72	72.12	72.37
280	72.45	72.20	71.80	72.20	71.80	72.20	72.45
300	72.33	72.08	71.68	72.08	71.68	72.08	72.33
325	72.19	71.94	71.54	71.94	71.54	71.94	72.19
350	72.04	71.79	71.39	71.79	71.39	71.79	72.04
375	71.90	71.65	71.25	71.65	71.25	71.65	71.90
San Clemente 400' W. = EL of	71.75	71.50	71.10	71.50	71.10	71.50	71.75

10' 7½ 7½ 7½ 7½ 10'

2214%

1.50%

change

Grades on Albatross 70' St
N. of Robinson 15' cbs

	West	East
	cb.	cb
275' N.	264.52	265.02
255' N.	265.21	265.71
245' N	265.56	266.06
215' N	266.60	267.10
195'	267.18	267.69
175'	267.53	268.06
155'	267.65	268.22
135'	267.54	268.16
100'	267.20 ~~267.14~~	267.86
50	266.70 ~~266.57~~	267.43
N.L. Robn	266.20 To fit old cb. ~~266.0~~	267.0

267.06
5.04
272.10

	267.43	267.86	268.16	268.22	268.06	267.69	267.10
	4.67	4.24	3.94	3.88	4.04	4.41	5.00
266	266.57	267.14	267.54	267.65	267.83	267.18	266.6
6.10	5.53	4.96	4.56	4.45	4.57	4.92	5.5

265.71 / 6.39   265.02 / 7.08

Levels on Albatross St. N. of Rob'n for regrade.

3.76   270.82   267.06 B.M.

215' N. of Robn		
W.L. of Albatross	4.5	366.3
11' E	4.2	66.6
15' E	5.4	65.4
228' N. of Robn		
25' E of W.L.	4.5	66.3
15' E	4.7	66.1
W.L	5.5	65.3
222' N. of Robn		
W.L	9.7	61.1
11' E	5.4	65.4
15' E	4.8	66.0
25' E	4.5	66.3
241' N of Robn		
25' E of W.L	4.8	66.0
15' " " "	5.6	65.2
5' " " "	10.0	60.8
W.L	10.8	60.0
259' N of Robn		
35' E of W.L	5.2	65.6
27' " " "	6.0	64.8
15' " " "	8.9	61.9
9' " " "	12.7	58.1
W.L.	14.1	56.7
275' N of Robn		
W.L.	16.2	54.6
15' E of W.L	13.7	57.1
20' " " "	12.5	58.3
31' " " "	7.9	62.9
35' " " "	7.3	63.5

QUINCE STREET

	S	Curb	¼	℄	¼	Curb	N
W.L. Union St.	203.85	203.60	203.40	204.00	203.80	204.40	204.65
20' W.	200.99	200.74	200.51	201.08	200.85	201.42	201.67
35' "	198.85	198.60	198.34	198.90	198.64	199.19	199.44
45'	197.42	197.17	196.90	197.44	197.17	197.70	197.95
50	196.70	196.45	196.18	196.70	196.44	196.96	197.21
60	195.27	195.02	194.74	195.34	194.97	195.47	195.72
65	194.55	194.30	194.02	194.51	194.23	194.73	194.98
95	190.25	190.00	189.68	190.13	189.81	190.26	190.51
120	186.67	186.42	186.07	186.48	186.12	186.54	186.75
137	184.25	184.00	183.60	184.00	183.60	184.00	184.25
145	183.86	183.61	183.21	183.61	183.21	183.61	183.86
170	182.65	182.40	182.00	182.40	182.00	182.40	182.65
193	181.54	181.29	180.89	181.29	180.89	181.29	181.54
205	180.96	180.71	180.31	180.71	180.31	180.71	180.96
220 = EL STATE (35' Wide)	180.25	180.00	179.60	180.00	179.60	180.00	180.25
℄ STATE	179.75	179.50	179.10	179.50	179.10	179.50	179.75
W.L. STATE	179.25	179.00	178.60	179.00	178.60	179.00	179.25
23' W.	176.79	176.54	176.14	176.57	176.20	176.60	176.85
25' "	176.58	176.33	175.93	176.36	176.00	176.39	176.64
35'	175.51	175.26	174.86	175.30	174.94	175.34	175.59
37'	175.30	175.05	174.65	175.09	174.73	175.13	175.38
45	174.45	174.20	173.80	174.24	173.89	174.29	174.54
70	171.78	171.53	171.13	171.60	171.28	171.68	171.93
98	168.79	168.54	168.14	168.64	168.35	168.75	169.00
98.5	168.74	168.49	168.09	168.60	168.30	168.70	168.95

14.31%
14.52%
14.74%
14.89%
4.82%
4.82%
2.86%
2.86%
10.68%
10.75%

QUINCE STREET

	S	Curb.	1/4	℄	1/4	Curb	N
102' W. of STATE	168.37	168.12	167.72	168.23	167.93	168.33	168.58
103' W.	168.26	168.01	167.61	168.12	167.83	168.23	168.48
116'	166.87	166.62	166.22	166.74	166.47	166.87	167.12
126	165.80	165.55	165.15	165.69	165.43	165.83	166.08
145	163.77	163.52	163.12	163.68	163.44	163.84	164.09
170	161.10	160.85	160.45	161.04	160.83	161.23	161.48
195	158.43	158.18	157.78	158.40	158.22	158.62	158.87
210	156.83	156.58	156.18	156.82	156.65	157.05	157.30
215	156.30	156.05	155.65	156.29	156.13	156.53	156.78
COLUMBIA 220' W. = E.L. of 165' W	155.75	155.50	155.10	155.75	155.60	156.00	156.25

10.682%

10.455%

SWL 2/14/17

Note - Will need notes for the Intersection

FORWARD STREET

North Side

Book 983 60

44

			℄	¼	Curb	M
(Linda Rosa) W.L. Sun Ave	153.72		154.36	154.40	155.00	155.25
25' W.	152.07		152.82	153.04	153.57	153.82
50' "	150.42		151.27	151.68	152.13	152.38
64	149.50		150.42		151.33	
75'			150.00	150.32	150.70	150.95
100			149.00	148.96	149.26	149.51
125			148.02	147.60	147.83	148.08
133.6	148.00		147.67		147.34	
150	147.26		146.83	146.24	146.40	146.65
175	146.14		145.55	144.88	144.96	145.21
200	145.02		144.27	143.52	143.53	143.78
E.L. TAFT 235.4' W =	143.42		142.46	141.58	141.50	141.75
E.L. TAFT	143.42	142.82	142.46	141.58	141.50	141.75
Curb			142.11	141.28	141.50	141.50
¼			141.75	140.98	140.50 / 140.12	140.50 / 140.90
℄			141.39	140.67	139.75	140.75
¼			141.04	140.36	139.37	139.94
Curb			140.68	140.06	139.00 / 140.00	139.00 / 140.00
W.L. TAFT	140.66	140.06	140.33	139.76	140.00	140.25

61.7

10' 10.4' 10.4' 10.4' 10.4' 10.4' 10'

6.6

4.49

3.95%

5.446%

5.735%

0.7C

FORWARD STREET North Side

				℄	¼	Curb	M
W.L. TAFT	140.91	140.66	140.06	140.33	139.76	140.00	140.25
25' W.		139.54		139.37	138.88	139.20	139.45
50' "		138.42		138.41	138.00	138.40	138.65
75'		137.30		137.45	137.13	137.60	137.85
100		136.18		136.49	136.25	136.81	137.06
104		136.00		136.34	136.11	136.69	136.94
125				135.93	135.57	136.01	136.26
150				135.44	134.92	135.21	135.46
173.5		135.50		134.98	134.32	134.47	134.72
175		135.44		134.92	134.26	134.41	134.66
200		134.41		134.02	133.42	133.62	133.87
E.L. BELLEVUE 235.4 W. =	133.20	132.95	132.35	132.72	132.21	132.50	132.75
E.L. BELLEVUE	133.20	132.95	132.35	132.72	132.21	132.50	132.75
Curb				132.39	131.91	132.50	132.50
¼				132.05	131.60	131.50 / 131.13	131.50 / 131.90
℄				131.71	131.30	130.75	131.75
¼				131.37	131.00	130.38	130.98
Curb				131.03	130.70	130.00 / 131.00	130.00 / 131.00
W.L. BELLEVUE	130.66	130.41	130.15	130.70	130.40	131.00	131.25

61.7'

10' 10.4 10.4 10.4 10.4 10.4 10'

0.1 8 6 %

3.1 8 6 %

1.96 %

← 0.1C

FORWARD STREET

North side

				℄	¼	Curb	⊓
W.L. BELLEVUE	130.66	130.41	130.15	130.70	130.40	131.00	131.25
25' W.		129.38		129.63	129.34	129.88	130.13
50' "		128.35		128.56	128.28	128.77	129.02
75'		127.33		127.50	127.21	127.66	127.91
100		126.30		126.42	126.15	126.54	126.79
125		125.27		125.34	125.09	125.42	125.67
143.8		124.50		124.54		124.58	
150				124.34	124.03	124.31	124.56
175				123.52	123.27	123.20	123.45
200				122.70	122.90	122.08	122.33
234				122.24		121.48	
E.L. WAVERLY 235.4' W =	121.97	121.72	121.12	121.11	120.40	120.50	120.75
E.L. WAVERLY	121.97	121.72	121.12	121.11	120.40	120.50	120.75
Curb 10'				120.70	120.08	120.50	120.75
						119.50	119.75
¼ 10.4				120.27	119.74	119.13	119.38
℄ 10.4				119.84	119.40	118.75	119.75
¼ 10.4				119.41	119.06	118.38	118.88
						118.00	118.00
Curb 10.4				118.98	118.72	119.00	119.00
W.L. WAVERLY	118.39	118.14	117.95	118.57	118.40	119.00	119.25

61.7

4.14%

4.48%

4.46%

3.30%

FORWARD STREET North Side

				℄	¼	Curb	M
W.L. WAVERLY	118.39	118.14	117.95	118.57	118.40	119.00	119.[illegible]
25' W		116.69		117.13	116.97	117.57	117.[illegible]
50' "		115.24		115.68	115.53	116.13	116.[illegible]
75'		113.79		114.24	114.10	114.70	114.[illegible]
100		112.34		112.80	112.66	113.26	113.[illegible]
125		110.89		111.36	111.23	111.83	112.[illegible]
150		109.44		109.92	109.80	110.40	110.[illegible]
175		108.00		108.48	108.36	108.96	109.[illegible]
183.7		107.50		107.98	107.86	108.46	108.[illegible]
184.29						108.43	108.[illegible]
209.85						106.97	107.[illegible]
(E.L. BEAUMONT 235.42 W. =						105.50	

5.79 %

5.73 %

South Side FORWARD STREET

	S	Curb	¼	℄		
and Alley W.L. of Sup. Ave		157.75				
30.4' W.						
60.9' "	153.97	153.72	153.64	154.36		
75' "	153.05	152.80	152.75	153.50		
100'	151.40	151.15	151.16	151.96		
of Taft Ave. 125 W = EL.	149.75	149.50	149.56	150.42		151.33
EL. TAFT.	149.75	149.50	149.56	150.42		151.33
cb.	149.50	149.50	149.25	150.02		
	148.50	148.50				
¼	148.90	148.13	148.86	149.54		
℄	148.75	147.75	148.48	149.05		
¼	147.98	147.38	148.09	148.56		
	147.00	147.00				
cb	148.00	148.00	147.51	148.07		
W.L. TAFT	148.25	148.00	147.40	147.67		147.34
W.L. TAFT.	148.25	148.00	147.40	147.67		147.34
25' W.	147.13	146.88	146.31	146.40		145.91
50' "	146.01	145.76	145.22	145.12	5.735%	144.48
75'	144.89	144.64	144.13	143.84		143.05
100	143.76	143.51	143.05	142.56		141.62
101.8		143.47				141.50
125	142.64	142.39	141.96	142.46		140.94
150	141.52	141.27	140.87	140.80		140.34
163.5		140.66		140.33		140.00
175	140.40	140.15	139.78	139.89		139.63
200	139.27	139.02	138.70	138.98		138.83
225	138.15	137.90	137.61	137.96	3.86	138.03
BELLEVUE 267.4' W. = EL.	136.25	136.00	135.77	136.34		136.69

69.8 66.9 61.9 69.6 4.49% 4.35%

South Side

FORWARD STREET

	S	Curb	1/4	℄	Curb
EL. Bellevue	136.25	136.00	135.60	136.34	136.69
cb (10')	136.00	136.00	135.53	136.14	
1/4 (12.4)	135.00 / 135.60	135.00 / 134.87	135.44	136.90	
℄ (12.4)	135.75	134.75	135.35	135.66	
1/4 (12.4)	135.10	134.62	135.26	135.42	
cb (12.4)	134.50 / 135.50	134.50 / 135.50	135.17	135.18	
W.L. Bellevue (10')	135.75	135.50	135.10	134.98	134.47
W.L. Bellevue	135.75	135.50	135.10	134.98	134.47
25' W.	134.72	134.47	134.07	134.07	133.67
50' / 61.9"	133.69	133.44 / 132.95	133.04	133.15	132.87 / 132.50
75'	132.66	132.41	132.01	132.30	132.19
100 / 123.6	131.64	131.39 / 130.41	131.00	131.49	131.58 / 131.00
125	130.61	130.36	129.96	130.65	130.94
150	129.58	129.33	128.93	129.58	129.82
175	128.55	128.30	127.90	128.50	128.70
200	127.52	127.27	126.87	127.42	127.58
225	126.49	126.24	125.84	126.35	126.47
WAVERLY 267±' W. = EL.	124.75	124.50	124.10	124.54	124.58
EL. WAVERLY	124.75	124.50	124.10	124.54	124.58
cb. (10)	124.50	124.50	123.85	124.21	
1/4 (12.4)	123.50 / 123.90	123.50 / 123.12	123.55	123.80	
℄ (12.4)	123.75	122.75	123.25	123.39	
1/4 (12.4)	122.97	122.38	122.95	122.98	
cb. (12.4)	122.00 / 123.00	122.00 / 123.00	122.65	122.57	
W.L. WAVERLY (10)	123.25	123.00	122.40	122.24	121.48

69.6'

3.86%

4.46%

4.14%

4.14%

69.6'

South Side

FORWARD STREET

	S	Curb	1/4	℄		Curb	
W.L. Waverly	123.25	123.00	122.40	122.24		121.48	
22.0		121.72				120.50	
25' W.	121.80	121.55	120.99	120.99		120.43	
50' "	120.35	120.10	119.59	119.96		119.83	
75'	119.00	118.65	118.18	118.94		119.23	
83.7						119.00	
100	117.46	117.21	116.77	117.64		118.07	
125	116.01	115.76	115.36	116.20		116.63	
150	114.56	114.31	113.95	114.75		115.19	
175	113.11	112.86	112.55	113.31		113.76	
200	111.66	111.41	111.14	111.86		112.32	
225	110.21	109.96	109.73	110.42		110.89	
Beaumont 267.4 W. = E.L.	107.75	107.50	107.34	107.98		108.46	
Slanted E.L. Beaumont	107.75	107.50	106.90	106.50	105.60	105.50	105.50
Curb 10	107.50	107.50	106.68	106.28	105.38	105.50	105.50
124	106.50	106.50				104.50	104.50
1/4	106.90	106.12	106.42	106.01	105.11	104.12	104.90
124							
℄	106.75	105.75	106.15	105.75	104.85	103.75	104.20
124							
1/4	105.98	105.38	105.89	105.48	104.58	103.38	103.97
124	105.00	105.00				103.00	103.00
Curb. 10	106.00	106.00	105.62	105.22	104.32	104.00	104.00
W.L. Beaumont	106.25	106.00	105.40	105.00	104.10	104.00	104.25

69.6' on South

Right angles

5.796 %

5.332 %

5.785 %

1.449

8 mg 4/24/17

FORWARD STREET.

	S	Curb	1/4	℄	1/4	Curb	N
W.L. Beaumont		106.00					
21.6' W. on S.		104.39					
0.0 on N.							
43.2' W. on S. =	103.02	102.77	102.68	103.38	103.40	104.00	104.25
+25	101.15	100.90	100.82	101.55	101.60	102.20	102.45
50	99.28	99.03	98.98	99.72	99.80	100.40	100.65
75	97.41	97.16	97.12	97.88	98.00	98.60	98.85
100	95.55	95.30	95.28	96.05	96.20	96.80	97.05
125	93.68	93.43	93.42	94.22	94.40	95.00	95.25
150	91.81	91.56	91.57	92.38	92.60	93.20	93.45
Electric on S. + 184.2' W = EL.	89.25	89.00	89.03	89.87	90.14	90.74	90.99
E.L. Electric	89.25	89.00	88.60	89.00	88.60	89.00	89.25
E.L. Electric Ave	89.25	89.00	88.60	89.00	88.60	89.00	89.25
Cb. 4	89.00	89.00	88.43	88.83	88.43	89.00	89.00
	88.00	88.00				88.00	88.00
8' W. 8	88.25	87.87	88.35	88.75	88.35	87.87	88.25
1/4 5	88.40	87.80	88.29	88.69	88.29	87.80	88.40
2' E. of E. Rail "	88.46	87.62	88.16	88.56	88.16	87.62	88.46
℄	88.50	87.50	88.10	88.50	88.10	87.50	88.50
2' W. " W. "	88.30	87.40	88.05	88.45	88.05	87.40	88.30
1/4 "	87.85	87.12	87.92	88.32	87.92	87.12	87.85
6' W. of 1/4	87.46	87.12	87.85	88.25	87.85	87.12	87.46
	87.00	87.00				87.00	87.00
Cb. 7	88.00	88.00	87.77	88.17	87.77	88.00	88.00
W.L. Electric Ave 14	88.25	88.00	87.60	88.00	87.60	88.00	88.25

average mid. = 86.2'

7.472%

7.19%

FORWARD STREET

Slouted	S	Curb	1/4	℄	1/4	Curb	N
W.L. Electric Ave.	88.25	88.00	87.60	88.00	87.60	88.00	88.25
22.4' W on SL = 0.0	86.99	86.74	86.66	87.37	87.40	88.00	88.25
25' W.	85.59	85.34	85.26	85.97	86.00	86.59	86.84
50' "	84.19	83.94	83.85	84.56	84.58	85.18	85.43
75'	82.79	82.54	82.45	83.16	83.17	83.77	84.02
100	81.38	81.13	81.04	81.74	81.76	82.36	82.61
125	79.98	79.73	79.64	80.34	80.35	80.95	81.20
150	78.58	78.33	78.24	78.94	78.94	79.54	79.79
175	77.18	76.93	76.83	77.53	77.53	78.13	78.38
200	75.77	75.52	75.42	76.12	76.12	76.72	76.97
LA JOLLA on So. 227.3' W = EL.	74.25	74.00	73.90	74.59	74.58	75.18	75.43
EL. LA JOLLA BLVD.	74.25	74.00	73.60	74.00	73.60	74.00	74.25
EL. LA JOLLA	74.25	74.00	73.60	74.00	73.60	74.00	74.25
Curb	74.00	74.00	73.45	73.85	73.45	74.00	74.00
	73.00	73.00				73.00	73.00
1/4	73.40	72.75	73.27	73.67	73.27	72.75	73.40
℄	73.50	72.50	73.10	73.50	73.10	72.50	73.50
1/4	72.85	72.25	72.92	73.32	72.92	72.25	72.85
	72.00	72.00				72.00	72.00
Curb	73.00	73.00	72.75	73.15	72.75	73.00	73.00
W.L. LA JOLLA	73.25	73.00	72.60	73.00	72.60	73.00	73.25

5.607%

5.645%

average width = 104.0

FORWARD STREET

	S	Curb	¼	℄	¼	Curb	Π
W.L. LA JOLLA	73.25	73.00	72.60	73.00	72.60	73.00	73.25
18' W. on S.L. = 0.0	72.55	72.30	72.07	72.65	72.40	73.00	73.25
25' W.	71.57	71.32	71.09	71.66	71.40	72.00	72.25
50' "	70.59	70.34	70.10	70.67	70.40	71.00	71.25
75'	69.61	69.36	69.12	69.68	69.40	70.00	70.25
100	68.62	68.37	68.12	68.68	68.39	68.99	69.24
125	67.64	67.39	67.14	67.69	67.39	67.99	68.24
150	66.66	66.41	66.15	66.70	66.39	66.99	67.24
175	65.68	65.43	65.17	65.71	65.39	65.99	66.24
Beulah Ave. 211' on S. = EL. of	64.25	64.00	63.73	64.27	63.94	64.54	64.79
of Beulah 224.5' on Π. = EL.	64.25	64.00	63.60	64.00	63.60	64.00	64.25
EL. of Beulah	64.25	64.00	63.60	64.00	63.60	64.00	64.25
E. Curb	64.00 63.00	64.00 63.00	63.44	63.84	63.44	64.00 63.00	64.00 63.00
¼	63.40	62.75	63.27	63.67	63.27	62.75	63.40
℄	63.50	62.50	63.10	63.50	63.10	62.50	63.50
¼	62.85 62.00	62.25 62.00	62.93	63.33	62.93	62.25 62.00	62.85 62.00
W. Curb	63.00	63.00	62.76	63.16	62.76	63.00	63.00
W.L. Beulah	63.25	63.00	62.60	63.00	62.60	63.00	63.25

3.73%

4.01%

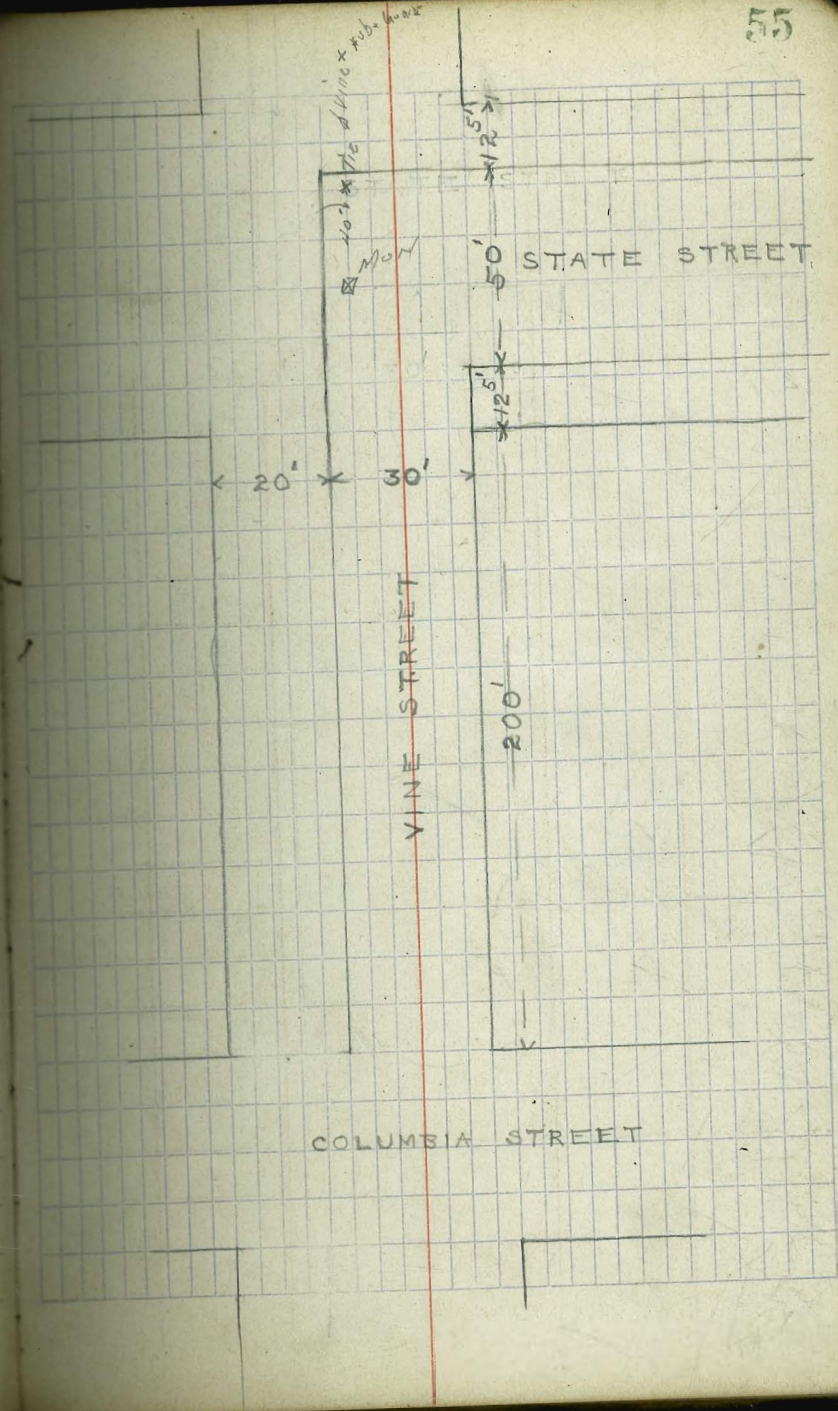
647

FORWARD STREET

	S	Curb	1/4	℄	1/4	Curb	M
W.L. BEULAH	63.25	63.00	62.60	63.00	62.60	63.00	63.25
115' W. on S. = W.L.	61.57	61.32	60.92	62.16	62.40	63.00	63.25
25' W. of "	57.91	57.66	57.26	58.32	58.43	58.99	59.24
50' "	54.25	54.00	53.60	54.49	54.46	54.98	55.23
75' "	50.59	50.34	49.94	50.66	50.49	50.97	51.22
100'	46.94	46.69	46.29	46.82	46.52	46.96	47.21
CALUMET AVE. 118.5' W. = E.L. of	44.25	44.00	43.60	44.00	43.60	44.00	44.25
E.L. CALUMET	44.25	44.00	43.60	44.00	43.60	44.00	44.25
E. Cb	44.00	44.00	43.36	43.76	43.36	43.76	44.01
1/4	43.00 / 43.60	43.00 / 42.75	43.23	43.63	43.23	43.63	43.88
℄	43.50	42.50	43.10	43.50	43.10	43.50	43.75
1/4	42.85	42.25	42.97	43.37	42.97	43.37	43.62
W.Cb.	42.00 / 43.00	42.00 / 43.00	42.84	43.24	42.84	43.24	43.49
W.L. CALUMET	43.25	43.00	42.60	43.00	42.60	43.00	43.25
W.L. CALUMET	43.25	43.00	42.60	43.00	42.60	43.00	43.25
25' W.	41.58	41.33	40.93	41.38	41.04	41.44	41.69
50' "	39.91	39.66	39.26	39.77	39.48	39.88	40.13
75'	38.25	38.00	37.60	38.16	37.92	38.32	38.57
Street on S. 105' W. = End of	36.25	36.00	35.60	36.22	36.05	36.45	36.70
on M = W End of St. 105' W. on S. & 144.5' W.	36.25	36.00	35.40	35.00	34.10	34.00	34.25

Curb: 1.46.2%; 1.57%; 1.60.4%; 6.67%; 6.22.4%; 2.38%

10' 8' 8' 8' 8' 10' — 42'


STATE STREET
50'
12.5'
12.5'
20'
30'
VINE STREET
200'
COLUMBIA STREET

VINE STREET

	S 10'	Curb 10'	¼	10' ℄	¼	Curb
E.L. Columbia	112.75	112.50	111.90	112.25		112.00
			112.20			112.30
50	120.25		115.65	119.68		115.69
			119.40			119.38
100	127.75		120.90	127.12		120.85
			121.95			121.88
			123.15			123.06
Blk 1' short 150	135.35		126.90	134.55		126.75
			130.65			130.44
180	139.75	139.5	134.40	139.03		134.13
			138.15			137.81
200	~~141.07~~	~~141.42~~	141.90	142.00		141.50

	S	Curb	¼	℄	¼	Curb
W.L. State St	142.75	142.50	141.90	142.00		
		141.5				
Curb	142.50	142.50	141.90	142.00		
	141.50	141.50				
¼	142.35	141.75	142.15	142.25		
℄	143.00	142.00	142.40	142.50		
¼	142.90	142.25	142.65	142.75		
	142.50	142.50				
Curb	143.50	143.50	142.90	143.00		
		142.50				
E.L. State St	143.75	143.50	~~142.90~~	~~143.00~~		

Omit Acc Res. #22536

(SEE PAGE 60)

Book 1001

Outs 3½ Col to ~~5.75~~

70.06 B.M. N.W. Cor. Willow & India St.

57.26 B.M. S.W. Cor. Vine & India St

℄	℄	℄	℄	℄	℄
112.75	112.25	120.91	121.48	127.94	128.57
7.47	8.0	11.91	11.34	4.88	15.68
+0.8	+1.9	−0.5	+5.6	+3.4	+6.1
135.86	134.97	142.[illegible]	142.75		
8.6	9.3	2.25	1.50		
+5.1	+0.4	−4.6	+2.4		

Spike S.W. Cor. Vine & Willow 6 in St.

112.48	112.75	112.25	119.65	120.25	
11.90	12.40	4.97	6.40		
		+3.2	+4.1		
127.75	127.[illegible]				
9.39	10.02				
+3.9	+3.8				
		134.[illegible]	135.[illegible]		
		8.6	1.9		
		+0.5			
135.[illegible]	139.[illegible]	139.[illegible]	142.[illegible]	141.69	
9.94	5.44	6.12	3.9	5.5	
+3.3	+3.7	+1.9	−2.7	+0.7	

127.[illegible]	127.[illegible]	119.68	120.[illegible]	124.[illegible]	
2.18	7.68	5.25	4.92	3	
127.12	127.75	127.[illegible]	135.[illegible]	134.58	
10.50	9.92	9.67	2.17	2.79	
129.[illegible]	129.50	141.[illegible]	142.[illegible]	143.[illegible]	
3.73	5.25	1.06	3	0.73	
127.[illegible]					
4.68					
127.94	135.[illegible]				
1.93	1.93				

50' St.
10' Walks

CURLEW STREET

	W	Curb	1/4	℄	1/4	Curb	E
Sec A = N.L. Palm	155.25	155.00	154.60	155.00	154.60	155.00	[illegible]
Sec. B	155.25	155.00	154.60	155.18	154.97	155.37	[illegible]
10' No.	156.00	155.75	155.35	155.93	155.71	156.11	[illegible]
20' "	156.75	156.50	156.10	156.67	156.45	156.85	[illegible]
32'	157.65	157.40	157.00	157.57	157.34	157.74	[illegible]
45	158.62	158.37	157.97	158.54	158.31	158.71	[illegible]
60	159.74	159.49	159.09	159.65	159.42	159.82	[illegible]
100	162.73	162.48	162.08	162.64	162.40	162.80	[illegible]
130	164.97	164.72	164.32	164.87	164.63	165.03	[illegible]
150	166.47	166.22	165.82	166.37	166.12	166.52	[illegible]
175	168.34	168.09	167.69	168.23	167.98	168.38	[illegible]
200	170.21	169.96	169.56	170.10	169.83	170.23	[illegible]
215	171.33	171.08	170.68	171.21	170.94	171.34	[illegible]
225	172.08	171.83	171.43	171.96	171.69	172.09	[illegible]
235	172.83	172.58	172.18	172.70	172.43	172.83	[illegible]
245	173.58	173.33	172.93	173.45	173.17	173.57	[illegible]
275	175.83	175.58	175.18	175.69	175.40	175.80	176.05
300	177.70	177.45	177.05	177.55	177.25	177.65	177.90
302	177.85	177.60	177.20	177.70	177.40	177.80	178.05
S.L. Quince on W. 315	178.82	178.57	178.17	178.67	178.36	178.76	179.01
325		179.32		179.40	179.09	179.49	179.74
335.6 No. = S.L. Quince on E.					179.86	180.26	180.51

7.483 %

7.43 %

May, 1917

Book 966 A

STATE STREET BETWEEN VINE LAND UPAS

	W	Curb	¼	℄	¼	Curb	E
S. Line Vine St.	142.75	142.5 141.5	142.35	143.00	143.90	143.50 142.50	143.[illegible]
25' - S "	143.22	142.97	142.82	143.471	143.37	143.97	144.[illegible]
50' "	143.69	143.44	143.29	143.94	143.84	144.44	144.[illegible]
75' "	144.16	143.91	143.76	144.41	144.31	144.91	145.[illegible]
100' "	144.63	144.38	144.23	144.88	144.78	145.38	145.[illegible]
125' "	145.11	144.86	144.71	145.36	145.26	145.86	146.[illegible]
150'	145.58	145.33	145.18	145.83	145.73	146.33	146.[illegible]
175'	146.05	145.80	145.65	146.30	146.20	146.80	147.[illegible]
200'	146.52	146.27	146.12	146.77	146.67	147.27	147.[illegible]
225'	146.99	146.74	146.59	147.24	147.14	147.74	147.[illegible]
250'	147.45	147.20	147.06	147.71	147.61	148.21	148.[illegible]
275'	147.92	147.67	147.53	148.18	148.08	148.68	148.[illegible]
300'	148.39	148.14	148.00	148.65	148.55	149.15	149.[illegible]
325'	148.86	148.61	148.47	149.12	149.02	149.62	149.[illegible]
N. L. Upas: 345'	149.25	148.00 149.00	148.85	149.50	149.40	149.0 150.0	150.[illegible]

	W	Curb	¼	℄	¼	Curb	E
N. L. Upas St	149.25	149.00 148.00	148.85	149.50	149.40	150.00 149.00	150.25
Curb	149.00 148.00	149.00 148.00	148.85	149.50	149.40	150.00 149.00	150.[illegible]
¼	148.85	148.25	149.10	149.75	149.65	149.25	149.[illegible]
℄	149.50	148.50	149.35	150.00	149.90	149.50	150.[illegible]
¼	149.40	148.75	149.60	150.25	150.15	149.75	150.[illegible]
Curb	149.00 150.00	149.00 150.00	149.85	150.50	150.40	150.00 151.00	150.[illegible] 151.[illegible]
S. L. Upas St.	150.25	149.00 150.00	149.85	150.50	150.40	150.00 151.00	151.25

12.5 on N. ½ of Upas

N	Curb	¼	℄
147.32	147.07	146.92	147.57
143.25	143.00	148.85	149.50

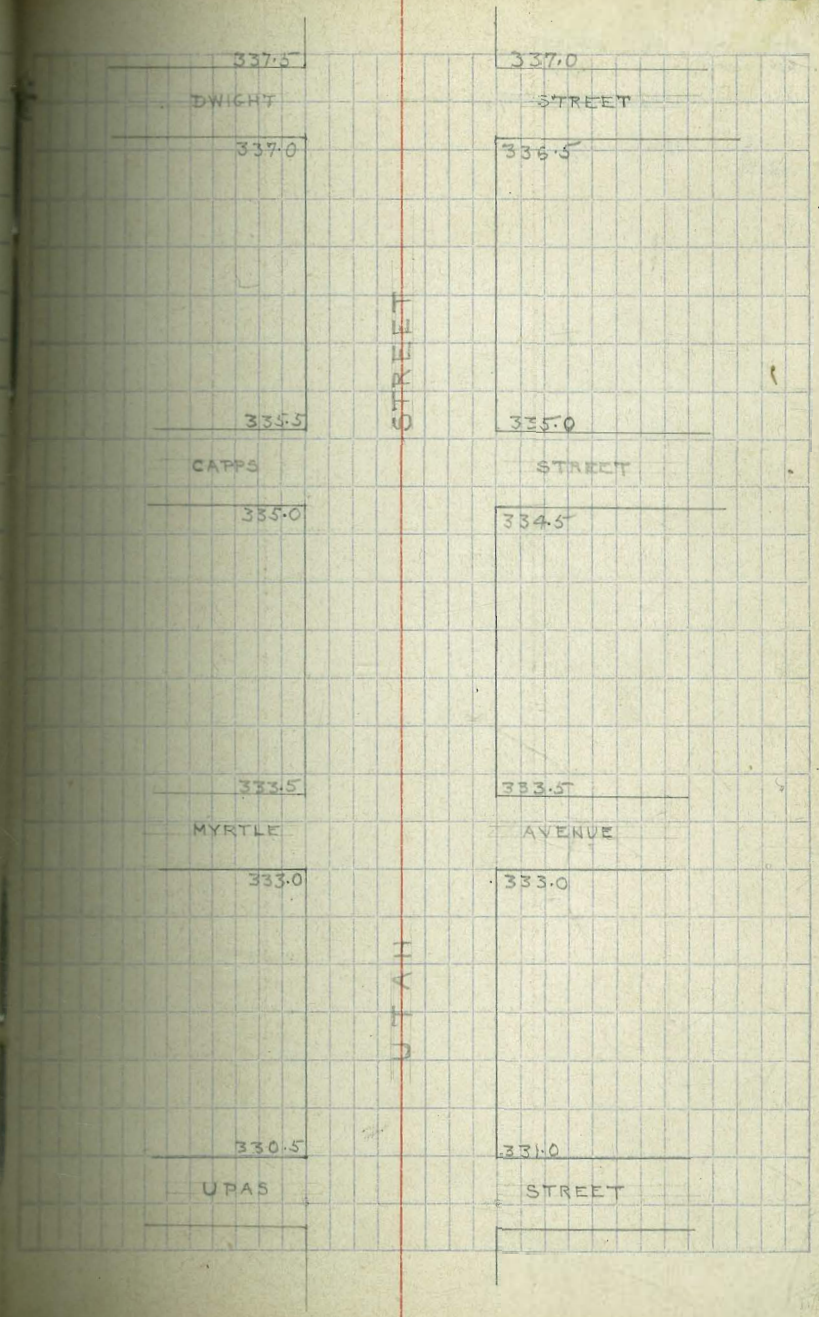
12.5 W of W.L. State

W.L. State

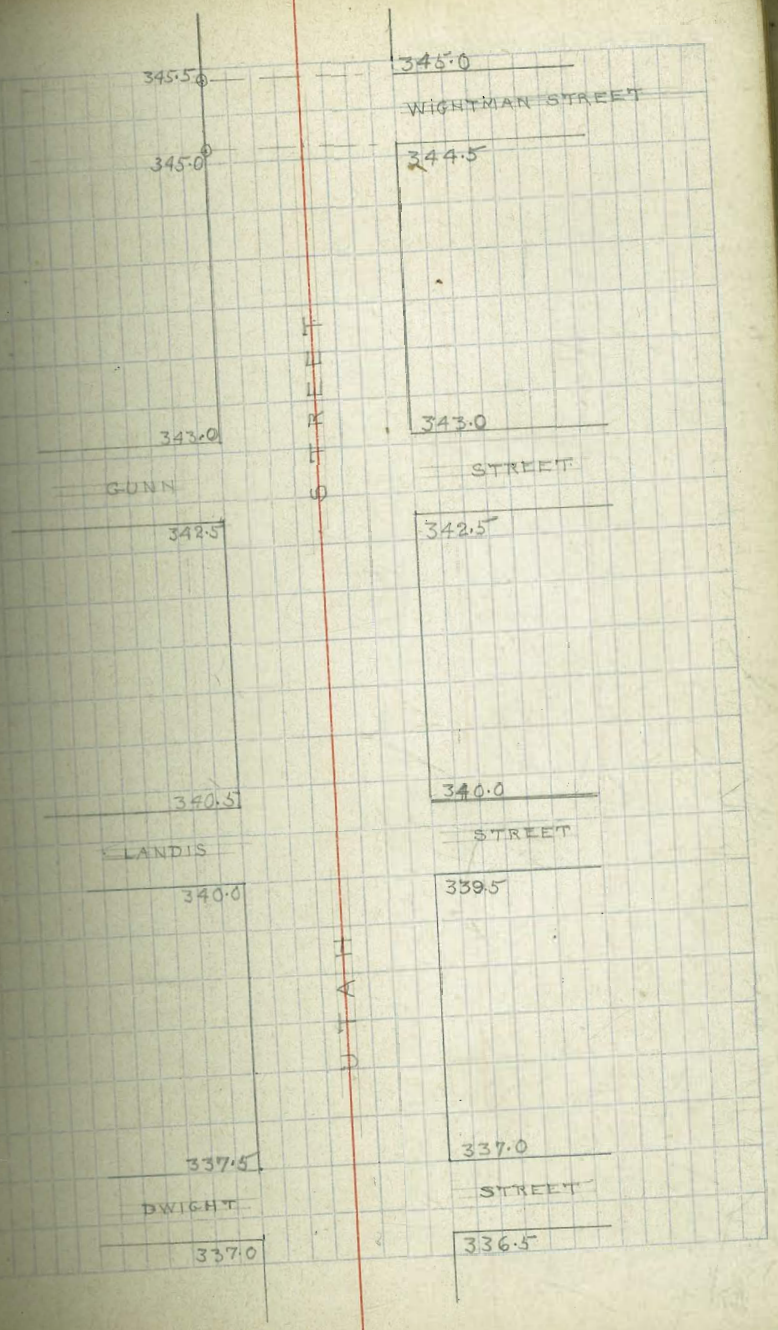
SE Dwight BP 336.40 SW Myrtle spk 333.18
SW Capps spk 335.65 NE Upas BP 331.04

331.04	330.65	332.9	333.4	334.6
6.33	6.72	4.47	3.97	2.77
337.37				

334.6	335.10	336.6	337.1
7.83	7.33	5.83	5.33
342.43			

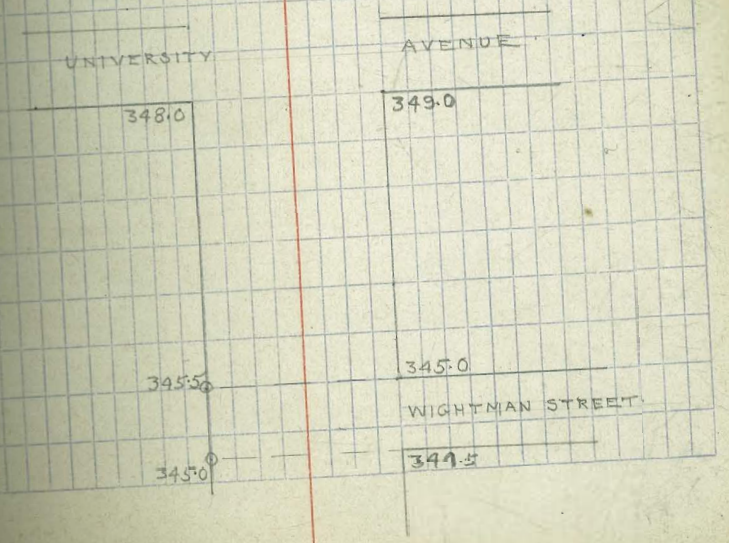


S.W. Gunn	BP	342.54	
SW Landis	BP	340.49	
342.43	339.6 / 2.83	340.1 / 2.33	342.4 / 6.85
342.08 / 7.23 / 349.25	342.9 / 6.35	344.6 / 4.65	



N E Wightman spk 345.31
349.25

345.1 / 3.15   348.4 / 0.85



No L Market to So Line Cedar

	Atlantic Street						
	W	Curb	¼	℄	¼	Curb	[illegible]
No. Line Market	3.65	3.40	3.00	3.40	3.00	3.40	3.65
8' - No.	3.67	3.42	3.02	3.43	3.04	3.44	3.63
50' - "	3.75	3.50	3.10	3.57	3.23	3.63	3.88
100' "	3.85	3.60	3.20	3.74	3.46	3.86	4.11
150' "	3.95	3.70	3.30	3.90	3.70	4.10	4.35
200' "	4.05	3.80	3.33	3.84	3.51	3.86	4.41
250' "	4.15	3.90	3.36	3.77	3.33	3.63	3.88
299.6' No. = S. Line G	4.25	4.00	3.40	3.70	3.15	3.40	3.65
So. Line G St	4.25	4.00	3.40	3.70	3.15	3.40	3.65
So. Curb	4.00	4.00	2.85	2.70	2.55	3.40	3.40
	3.00	3.00				2.40	2.40
" Quarter	3.80	3.57	3.45	3.33	3.21	3.09	3.09
Center	4.00	3.97	3.85	3.73	3.61	3.49	3.49
No. Quarter	3.60	3.57	3.45	3.33	3.21	3.09	3.09
	3.00	3.00				2.40	2.40
" Curb	4.00	4.00	2.85	2.70	2.55	3.40	3.40
" Line G St	4.25	4.00	3.40	3.70	3.15	3.40	3.65
No. Line G St	4.25	4.00	3.40	3.70	3.15	3.40	3.65
50' - No.	4.33	4.08	3.55	3.88	3.38	3.68	3.93
100' - No.	4.41	4.16	3.70	4.06	3.61	3.96	4.21
150' - "	4.50	4.25	3.85	4.25	3.85	4.25	4.50
200' - "	4.42	4.17	3.77	4.13	3.69	4.09	4.34

Level Books # 1013 and 974

ATLANTIC STREET

	W	CURB	1/4	℄	1/4	CURB	E
218' - No.	4.39	4.14	3.74	4.09	3.63	4.03	[illegible]
231.2' No.	4.37	4.12	3.72	4.05	3.59	3.99	[illegible]
257.5 "	4.32	4.07	3.67	3.99	3.50	3.90	[illegible]
300.4' No. = S.L. F ST	4.25	4.00	3.60	3.88	3.35	3.75	[illegible]
" S. LINE F ST.	4.25	4.00	3.60	3.88	3.35	3.75	[illegible]
S. CURB	4.00 3.00	4.00 3.00	2.94	2.88	2.81	3.75 2.75	[illegible]
" QUARTER	3.60	3.59	3.54	3.49	3.44	3.39	[illegible]
CENTER	4.25	4.23	4.16	4.09	4.02	3.95	[illegible]
No. QUARTER	4.10	4.07	3.97	3.87	3.77	3.67	[illegible]
" CURB	3.50 4.50	3.50 4.50	3.38	3.25	3.12	3.00 4.00	[illegible]
" LINE F ST	4.75	4.50	4.10	4.25	3.60	4.00	[illegible]
No. LINE F ST	4.75	4.50	4.10	4.25	3.60	4.00	[illegible]
50' - No.	4.83	4.58	4.18	4.38	3.77	4.17	[illegible]
100' - "	4.91	4.66	4.26	4.51	3.94	4.34	[illegible]
150' - "	5.00	4.75	4.35	4.63	4.10	4.50	4.75
200' "	5.08	4.83	4.43	4.75	4.27	4.67	[illegible]
250' "	5.16	4.91	4.51	4.87	4.44	4.84	5.03
300' - No. = S.L. E ST	5.25	5.00	4.60	5.00	4.60	5.00	5.25

ATLANTIC STREET

	W	CURB	1/4	℄	1/4	CURB	E
SO. LINE E ST.	5.25	5.00	4.60	5.00	4.60	5.00	[illegible]
SO. CURB	5.00	5.00	4.60	5.00	4.60	5.00	[illegible]
	4.00	4.00				4.00	[illegible]
" QUARTER	4.60	4.60	4.80	5.00	4.80	4.60	[illegible]
75' CENTER	5.00	5.00	5.00	5.00	5.00	5.00	[illegible]
NO. QUARTER	4.60	4.60	4.80	5.00	4.80	4.60	[illegible]
	4.00	4.00				4.00	[illegible]
" CURB	5.00	5.00	4.60	5.00	4.60	5.00	[illegible]
" LINE E ST	5.25	5.00	4.60	5.00	4.60	5.00	[illegible]
NO. LINE E ST	5.25	5.00	4.60	5.00	4.60	5.00	[illegible]
50' - NO.	5.10	4.85	4.44	4.85	4.44	4.85	[illegible]
100' - "	4.95	4.70	4.29	4.70	4.29	4.70	[illegible]
150' - "	4.80	4.55	4.14	4.55	4.14	4.55	[illegible]
200' - "	4.65	4.40	4.00	4.40	4.00	4.40	[illegible]
250' "	4.50	4.25	3.85	4.25	3.85	4.25	[illegible]
300' - NO. S.L. BR'DWY.	4.35	4.10	3.70	4.10	3.70	4.10	4.35
NO. LINE BR'DWY.	4.35	4.10	3.50	3.75	3.18	3.40	[illegible]
50' - NO.	4.39	4.14	3.61	3.90	3.37	3.66	3.91
100' - "	4.43	4.18	3.72	4.05	3.56	3.92	[illegible]
135' NO. = 2' SO. PIER TRACK	4.45	4.20	3.80	4.15	3.70	4.10	4.35
151' NO. = 2' NO. PIER TRAK	4.46	4.21	3.81	4.15	3.70	4.10	4.35
200' - NO.	4.47	4.22	3.82	4.16	3.70	4.10	4.35
250' - "	4.49	4.24	3.84	4.17	3.70	4.10	4.35
270' - "	4.50	4.25	3.85	4.18	3.70	4.10	4.35

GRADE - NO. [illegible]

ATLANTIC STREET

	W	CURB	1/4	℄	1/4	CURB	E
300' - No.	4.52	4.27	3.87	4.19	3.70	4.10	[illegible]
350' - "	4.55	4.30	3.90	4.20	3.70	4.10	[illegible]
400' - "	4.62	4.37	3.97	4.23	3.70	4.10	[illegible]
450' "	4.69	4.44	4.04	4.26	3.70	4.10	[illegible]
500' "	4.75	4.50	4.10	4.30	3.70	4.10	[illegible]
550' - "	4.45	4.20	3.80	4.00	3.47	3.87	[illegible]
600' - "	4.05	3.80	3.40	3.70	3.24	3.64	[illegible]
629.2' "	3.85	3.60	3.20	3.50	3.11	3.51	[illegible]
649' No. = So. Line B on East	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
657.2' - No.	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
691' No. = So. Line B Going W.	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
So. Line B. Going West	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
So. Curb	3.40	3.40	3.00	3.40	3.00	3.40	[illegible]
" Quarter	3.00	3.00	3.20	3.40	3.20	3.00	[illegible]
Center	3.40	3.40	3.40	3.40	3.40	3.40	[illegible]
No. Quarter	3.00	3.00	3.20	3.40	3.20	3.00	[illegible]
" Curb	3.40	3.40	3.00	3.40	3.00	3.40	[illegible]
No. Line B. on West	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
No. Line B on West	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
8' No. = No. Line B on East	3.65	3.40	3.00	3.40	3.00	3.40	[illegible]
50' No. B on East Line	3.89	3.64	3.24	3.64	3.24	3.64	[illegible]

Atlantic Street

	W	Curb	¼	℄	¼	Curb	E
100'-No.	4.12	3.87	3.47	3.87	3.47	3.87	4.12
150'- "	4.35	4.10	3.70	4.10	3.70	4.10	4.35
200' "	4.15	3.90	3.50	3.82	3.34	3.74	3.99
250' "	3.95	3.70	3.30	3.53	2.97	3.37	3.62
300' No.=So. L. A. St	3.75	3.50	3.10	3.25	2.60	3.00	3.25
So. Line A. St.	3.75	3.50	3.10	3.25	2.60	3.00	3.25
So. Curb (14)	3.50	3.50	2.38	2.25	2.12	3.00	3.00
	2.50	2.50				2.00	2.00
" Quarter (13)	3.10	3.07	2.97	2.87	2.77	2.67	2.67
80' Center (13)	3.50	3.47	3.37	3.27	3.17	3.07	3.07
No. Quarter (13)	3.10	3.07	2.97	2.87	2.77	2.67	2.67
	2.50	2.50				2.00	2.00
" Curb (14)	3.50	3.50	2.38	2.25	2.12	3.00	3.00
No. Line A St	3.75	3.50	3.10	3.25	2.60	3.00	3.25
No. Line A St.	3.75	3.50	3.10	3.25	2.60	3.00	3.25
50'-No.	3.83	3.58	3.18	3.36	2.73	3.13	3.38
100'- "	3.91	3.66	3.26	3.47	2.86	3.26	3.51
150' "	4.00	3.75	3.35	3.57	2.98	3.38	3.63
200' "	4.08	3.83	3.43	3.67	3.10	3.50	3.75
250'- "	4.16	3.91	3.51	3.77	3.22	3.62	3.87
300' No.=S. L. A. St	4.25	4.00	3.60	3.88	3.35	3.75	4.00

ATLANTIC STREET

	W	CURB	¼	℄	¼	CURB	E
So. LINE ASH	4.25	4.00	3.60	3.88	3.35	3.75	4.[illegible]
So. CURB	4.00 3.00	4.00 3.00	3.69	3.94	3.39	3.75 3.75	3.[illegible]
" QUARTER	3.73	3.13	3.77	4.00	3.43	2.82	3.[illegible]
℄ CENTER	4.25	3.25	3.85	4.07	3.48	2.88	3.[illegible]
No. QUARTER	3.90 3.50	3.37 3.50	3.93	4.13	3.52	2.94 3.00	3.[illegible] 3.[illegible]
" CURB	4.50	4.50	4.01	4.19	3.56	4.00	4.[illegible]
" LINE ASH	4.75	4.50	4.10	4.25	3.60	4.00	4.[illegible]
No. LINE ASH	4.75	4.50	4.10	4.25	3.60	4.00	4.25
50'-No	4.83	4.58	4.18	4.36	3.73	4.13	4.38
100'-"	4.91	4.66	4.26	4.47	3.86	4.26	4.51
150' "	5.00	4.75	4.35	4.57	3.98	4.38	4.62
200' "	5.08	4.83	4.43	4.67	4.10	4.50	4.75
250' "	5.16	4.91	4.51	4.77	4.22	4.62	4.87
300-No-S.L. BEECH	5.25	5.00	4.60	4.88	4.35	4.75	5.00
S. LINE BEECH	5.25	5.00	4.60	4.88	4.35	4.75	5.00
So. CURB	5.00 4.00	5.00 4.00	4.69	4.94	4.39	4.75 3.75	4.25 3.75
" QUARTER	4.60	4.13	4.77	5.00	4.43	3.81	4.35
CENTER	5.25	4.25	4.85	5.07	4.48	3.88	4.88
No. QUARTER	5.10	4.37	4.93	5.13	4.52	3.94	4.60
" CURB	4.50 5.50	4.50 5.50	5.01	5.19	4.56	4.00 5.00	4.00 5.00
No. LINE BEECH	5.75	5.50	5.10	5.25	4.60	5.00	5.25

Atlantic Street

	W	Curb	¼	℄	¼	Curb	E
No. Line Beech	5.75	5.50	5.10	5.25	4.60	5.00	5.25
50' - No.	6.00	5.75	5.35	5.54	4.93	5.33	5.[illegible]
100' - "	6.25	6.00	5.60	5.83	5.26	5.66	5.[illegible]
150' - "	6.50	6.25	5.85	6.13	5.60	6.00	6.25
200' - "	6.34	6.09	5.69	5.97	5.44	5.84	6.09
250' "	6.17	5.92	5.52	5.80	5.27	5.67	5.92
300' No. - So. L Cedar	6.00	5.75	5.35	5.63	5.10	5.50	5.75
So. Line Cedar	6.00	5.75	5.35	5.63	5.10	5.50	5.75
So. Curb 14	5.75	5.75	5.31	5.56	5.01	5.50	5.50
	4.75	4.75				4.50	4.50
" Quarter 13	5.35	4.69	5.27	5.50	4.93	4.37	5.18
80' Center 13	5.63	4.63	5.23	5.44	4.85	4.25	5.25
No. Quarter 13	5.10	4.56	5.19	5.38	4.77	4.13	4.62
	4.50	4.50				4.00	4.00
" Curb 14	5.50	5.50	5.15	5.32	4.69	5.00	5.00
No. Line Cedar	5.75	5.50	5.10	5.25	4.60	5.00	5.25

ALLEY - BLOCK 9 - MISSION HILLS

	N	C	S
E. LINE ARGUELLA	269.33	269.14	268.84
SECT A B 0.0 ON N - 9.3 ON S	269.33	269.20	269.06
10' N = ASSUMED SECT. WHERE C = 4' BELOW PROP. L	269.46	269.33	269.19
50 E. SECT A B	269.97	269.79	269.71
100' E. " "	270.60	270.37	270.36
SEC D C = P.T. 125.88 "	270.94	270.67	270.70
25.4' NE ON S.E.L.	271.22	270.94	271.03
50.8 N.E. " "	271.50	271.21	271.36
76.2 " " "	271.78	271.48	271.69
SEC E F ELINE 101.61	272.04	271.75	272.02
25' N. SEC. E F.	272.36	272.04	272.35
50' " (SEC G H)	272.67	272.34	272.67
25' N SEC (G H) ON E.L.	272.88	272.54	272.87
50' " "	273.09	272.75	273.08
75 "	273.30	272.95	273.28
100' "	273.51	273.16	273.48
125 "	273.71	273.36	273.69
128.09	273.71	273.38	273.71
148.09	273.78	273.45	273.78
150'	273.76	273.42	273.73
168.09	273.27	272.94	273.27
~~175~~ N 168.09	273.01	272.67	272.99
200' N "	272.14	271.73	271.99
220.09 SEC A ASSUMED WHERE C = 4' N BELOW P. LINE	271.44	270.99	271.18
225' N	271.27	270.92	270.99
230.54' N (SEC I J)	271.08	270.84	270.77
6' N ON E - 0.0' ON W = SO. LINE HICKORY	271.08	270.80	270.52

Δ 19° 24'
R = 665
4
650
TO ALLEY

LEVELS - BOOK # 1012 - GRADES FIGURED HERE 61
4' BELOW ORDINANCE ESTABLISHED GRADES.

See Book 1012 for ties page 30

269.44 NW cor Sunset & Arguella

273.31 — 269.44 — 269.33 — 269.06 — 269.71 — 269.97 — 5.8 — 2.42 — 1.16 — 1.716

6.87 — 6.37 — 5.98 — 6.25 — 5.60 — 5.34

270.60 — 270.36 — 270.70 — +0.1 — −0.4 — +0.1

4.71 — 4.95 — 4.61 — 4.37 — 4.09 — 4.28

4.41 — 4.95 — 4.81 — 4.89 — 4.08

+0.3 — 0.0 — −0.2 — −0.3 — +0.2

271.44 — 271.36 — 271.50 — 271.78 — 271.69 — 272.02 — 272.04

4.69 — 3.95 — 3.81 — 3.53 — 3.62 — 3.29 — 3.27

273.13 — 4.60 — 3.53 — 3.91 — 3.23 — 3.32 — 2.69 — 3.07

+0.4 — −0.1 — +0.3 — +0.3 — +0.6 — +0.2

272.67 — 2.76 — 5' P 5' Tie Curb west

2.64 — 2.55 — 6.15

2.44 — +0.6 — 278.70 H.P.

+0.6

273.09 — 273.08 — 273.48 — 273.51 — 273.71 — 273.71 — 273.78 — 273.78

5.61 — 5.62 — 5.22 — 5.19 — 4.99 — 4.99 — 4.92 — 4.92

5.71 — 5.72 — 4.92 — 4.79 — 4.89 — 3.79 — 3.52 — 3.63

+0.4 — +0.4 — +0.3 — +0.4 — +0.6 — +1.2 — +1.4 — +1.3

273.27 — 273.27 — 271.99 — 271.44 — 271.44 — 271.18 — 270.77 — 270.52

5.43 — 5.43 — 6.71 — 6.56 — 7.26 — 7.52 — 7.93 — 8.18

8.33 — 8.53 — 8.91 — 4.66 — 6.46 — 6.82 — 6.73

+2.1 — +1.9 — +2.8 — +1.91 — +0.8 — +1.7 — +1.2

271.08

7.62

UPAS ST. — WEST — OF INTERSECT. OF UPAS

THIS IS OLD WEST LINE — SEE PAGE 76

NOTE	S	CURB	¼	℄	¼	CURB	N
W. LINE INDIANA	294.13 / 294.35	293.87 / 294.00	293.60	294.00	293.60	293.83 / 294.00	
50' – W	294.46 / 294.40	294.21	293.75	294.19	293.83	294.09	
100' – "	294.80 / 294.32	294.55	293.90	294.38	294.06	294.34	
139' = alley state						294.50	
150' "	295.14 / 294.91	294.89	294.06	294.37	294.29	294.69	
200' "	295.48 / 294.86	295.23	294.21	294.76	294.52	294.86	
250' "	295.82 / 295.01	295.57	294.36	294.95	294.75	295.11	
270' "	295.66	295.83	294.43	295.02	294.84	295.24	
300' "	296.16 / 295.19	295.91	294.52	295.13	294.98	295.36	
326.8 " E. LINE PARK BLVD	295.85 / 296.35	295.80 / 296.10 to f.t.	294.60 Curb OK	295.25 OK	295.10 .1 ft	295.50	

Earth to be cut back for this side

	S	CURB	¼	℄	¼	CURB	N
E. LINE PARK BLVD	295.25	295.00	294.60	295.25	295.10	295.50	
E. CURB	295.00 / 294.00	295.00 / 294.00	294.13	294.85	294.37	295.50 / 294.70	
E. QUARTER	294.40	294.54	294.64	294.75	294.85	294.96	
CENTER	294.50	294.70	294.85	295.00	295.15	295.30	
W. QUARTER	293.85	294.05	294.26	294.47	294.68	294.89	
" CURB	293.0 / 294.00	293.20 / 294.0	293.38	293.75	294.13	294.50 / 295.50	
W. LINE PARK BLVD	294.25	294.0	293.98	294.75	294.90	295.50	

	S	CURB	¼	℄	¼	CURB	N
W. LINE PARK BLVD	295.35 / 294.25	296.10 to f.t. Curb / 294.0	293.98	294.75	294.90	295.50	
50' W.	295.66 / 293.80	295.41 / 293.55	293.51	294.29	294.39	294.99	
100' "	294.97 / 293.35	294.72 / 293.10	293.04	293.79	293.88	294.48	
150' "	294.28 / 292.90	294.03 / 292.65	292.57	293.31	293.27	293.97 / 293.45	
200' "	293.60 / 292.45	293.35 / 292.20	292.10	292.83	292.86	293.46	

294.24 = CT on wall at Indiana

294.99 / 0.36 / 294.35

294.35 = PK on curb at Indiana

294.46 = corb at Indiana

294.35 W

294.24 HI

294.24 BM No. Nub Herbert

96.08

294.03 CL S.E.R. Blvd & Upas Park Blvd

SD Elect RVC. Row

93.95

94.04

94.30

95.64 BM.

96.00

96.35

Park Blvd

294.23 / 8.51

294.15 / 8.59

294.46 / 8.28

Herbert St

294.46 / 8.28

294.30 / 8.44

294.69 / 8.05

294.61 / 8.13

294.92 / 7.82

295.13 / 7.67

294.76 / 7.98

294.92 / 7.82

295.38 / 7.36

295.50 / 7.24

295.50 / 7.74

299.58 HI

293.31 / 6.23

293.46 / 6.12

293.97 / 5.61

294.03 / 5.58

294.72 / 4.86

294.48 / 5.10

294.99 / 4.59

295.41 / 4.17

296.10 / 3.48

295.50 / 4.08

295.91 / 3.67

= alley inside

295.50 / 3.13 / 292.63

295.50 / 3.67

295.85 / 4.79

295.07 / 4.59

1880 = alley stone
2191

	S	CURB	1/4	℄	1/4	CURB	N
250' - W.	292.91 ~~292.00~~	292.66 ~~291.75~~	291.63	292.35	292.35	293.59 293.27 ~~292.96~~	[illegible]
300' "	292.22 ~~291.55~~	291.97 ~~291.30~~	291.16	291.87	291.84	292.45	[illegible]
350' "	291.53 ~~291.10~~	291.28 ~~290.85~~	290.69	291.39	291.33	291.94	[illegible]
400' "	290.84 ~~290.65~~	290.59 ~~290.40~~	290.22	290.91	290.82	291.43	[illegible]
443.21' W = E. LINE HERBERT	290.25	290.00	289.85	290.50 .1h	290.40 .1h	291.00	291.75

	S	CURB	1/4	℄	1/4	CURB	N
E. LINE HERBERT	290.25	290.00	289.85	290.50	290.40	291.00	[illegible]
E. CURB 10'	290.00 289.00	290.00 289.00	289.69	290.34	290.24	291.00 290.00	[illegible]
E. QUARTER 10'	289.40	288.75	289.52	290.17	290.07	289.75	[illegible]
CENTER 10'	289.50	288.50	289.35	290.00	289.90	289.50	[illegible]
W. QUARTER 10'	288.85	288.25	289.19	289.84	289.74	289.25	[illegible]
W. CURB 10'	288.00 289.00	288.00 289.00	289.02	289.67	289.57	289.00 290.00	[illegible]
W. LINE HERBERT 10'	289.25	289.00	288.85	289.50	289.40	290.00	[illegible]

	S	CURB	1/4 .1h	℄ .3h	1/4 .4h	CURB	N
W. LINE HERBERT	289.25	289.00	288.85	289.50	289.40	290.0	[illegible]
50' - W.	288.77	288.52	288.36	289.01	288.91	289.52	[illegible]
100' - "	288.30	288.05	287.87	288.52	288.42	289.05	[illegible]
150' "	287.83	287.58	287.38	288.03	287.93	288.58	[illegible]
200' "	287.35	287.10	286.89	287.54	287.44	288.10	[illegible]
209.78' W E. LINE ALBERT	287.25	287.00	286.85	287.50	287.40	288.0	[illegible]

288.71 No. hub at Herbert.

BM nails SW Indiana & Cypress

Hub on Herbert

3.83
299.58 H.I. 299.58 290.59
291.00 290.00 8.99
8.58 9.58 291.42
291.93 291.28 291.97 8.16
7.65 8.30 7.61 292.44
292.95 292.66 7.14
6.63 6.92

Gutter high from 2 to 4 on whole job
Roadway - - - - from Park Blvd to Albert
Dirt SW - in places on So. Side
Not filled out to P.L. in places on No. Side
Waste dirt piled in Albert & Herbert Sts
Gutter across Herb to be cut out 200 c.y. 500 c.y. so water will cross
- - Upas at Richmond ditto
Walk not uncovered

	S	Curb	1/4	℄	1/4	Curb	N
E. Line Albert	287.25	287.00	286.85 OK.	287.50 OK.	287.40 .1 low	288.00	[illegible]
E. Curb 14	287.00	287.00	286.67	287.32	287.22	288.00	[illegible]
	286.00	286.00				287.00	[illegible]
" Quarter 13	286.40	285.75	286.51	287.16	287.06	286.75	[illegible]
Center 13	286.50	285.50	286.35	287.00	286.90	286.50	[illegible]
W. Quarter 13	285.85	285.25	286.19	286.84	286.74	286.25	[illegible]
	285.00	285.00				286.00	[illegible]
" Curb 13	286.00	286.00	286.03	286.68	286.58	287.00	[illegible]
W. Line Albert 14	286.25	286.00	285.85 .2 h	286.50 .2 h	286.40 .2 h	287.00	[illegible]

	S	Curb	1/4	℄	1/4	Curb	N
W. Line Albert	286.25	286.00	285.85	286.50	286.40	287.0	[illegible]
50' - W.	~~285.65~~	~~285.40~~ 285.60	285.30	286.00	286.00	286.60	[illegible]
100' "	~~285.05~~	~~284.80~~ 285.20	284.75	285.50	285.60	286.20	[illegible]
150' "	~~284.45~~	~~284.20~~ 284.80	284.20	285.00	285.20	285.80 .8	[illegible]
200' "	~~283.85~~	~~283.60~~ 284.40	283.65	284.50	284.80	285.40 .8	[illegible]
249.1 W. E. L. Richmond	~~283.25~~	~~283.00~~ 284.0	283.10	284.00	284.40	285.00	[illegible]

	S	Curb	1/4	℄	1/4	Curb	N
E. L. Richmond	283.25	~~283.00~~	283.10 .1 l	284.00 OK.	284.40 .2 l.	285.00	[illegible]
E. Curb 14'	283.00	283.00	282.92	283.82	284.22	285.00	[illegible]
	282.00	282.00				284.00	[illegible]
E. Quarter 13'	282.75	281.75	282.76	283.66	284.06	283.75	[illegible]
Center 13'	282.50	281.50	282.60	283.50	283.90	283.50	[illegible]
W. Quarter 13'	282.25	281.25	282.44	283.34	283.74	283.25	[illegible]
	281.00	281.00				283.00	[illegible]
" Curb 13'	282.00	282.00	282.28	283.18	283.58	284.00	[illegible]
W. Line Richmond 14'	282.25	282.00	282.10 OK.	283.00 OK.	283.40 .1 l	284.00	[illegible]

[illegible] 28846 No. Hubat Albert
[illegible] 28329 - - - Richmond

[illegible]	286.25	285.65	285.05	284.45	283.85	283.25
	7.00	7.6	8.2	8.8	9.4	10.00
	5.7	5.2	5.6	6.2	8.2	10.0
	+1.3	+2.4	+2.6	+2.1	+1.2	-0.0
	287.25	286.75	286.45	286.55	285.6	285.25
	6.00	6.4	6.8	7.2	7.6	8.00
	6.4	6.0	6.5	7.6	8.9	9.7
	-0.4	+0.4	+0.3	-0.4	-1.3	-1.7

[illegible]	284.25	284	284.65	284.40	285.05	284.80	285.20	285.85	286.25			
	4.79	5.04	4.29	4.64	3.99	4.24	3.84	3.19	2.79			
[illegible]	285		285.40		285.50		286.20		286.40		287	
	5.68		5.29		4.88		4.49		4.08		5.68	
	284	284.25	284.40		284.80		285.20		285.60		286	
	6.68	6.43	6.28	6.03	5.88	5.63	5.48	5.28	5.08	4.83	4.68	4.43
[illegible]	285	285.40	285.80	286.20	286.60	287.0						
	6.22	5.82	5.42	5.02	4.62	4.22						

	S	Curb	¼	℄	¼	Curb	N
W. Line Richmond	282.25	~~282.0~~ 283.0	282.10	283.00	283.40	284.0	284.25
50' - W.	~~281.84~~	~~281.59~~ ~282.5	281.67	282.54	282.90	283.50	284.27
100' - W	~~281.42~~	~~281.17~~ ~282.0	281.23	282.08	282.40	283.00	283.25
150' - "	~~281.00~~	~~280.75~~ ~281.50	280.79	281.62	281.90	282.50	282.75
200' "	~~280.59~~	~~280.34~~ ~281.00	280.35	281.16	281.40	282.00	282.25
250' "	~~280.17~~	~~279.92~~ ~280.50	279.92	280.71	280.90	281.50	281.75
300' "	~~279.75~~	~~279.50~~ ~280.0	279.48	280.25	280.40	281.00	281.25
350' "	~~279.34~~	~~279.09~~ ~279.50	279.04	279.79	279.90	280.50	280.75
400' "	~~278.92~~	~~278.67~~ ~279.00	278.60	279.33	279.40	280.00	280.25
450' "	~~278.50~~	~~278.25~~ ~278.50	278.16	278.87	278.90	279.50	279.75
500' "	~~278.09~~	~~277.83~~ ~278.0	277.73	278.42	278.40	279.00	279.25
550' "	~~277.67~~	~~277.42~~ ~277.50	277.29	277.96	277.90	278.50	278.75
600' W = Vermont (E Line)	~~277.25~~	277.00	276.85 ~~N~~	277.50 ~~34~~	277.40 ~~34~~	278.00	278.25

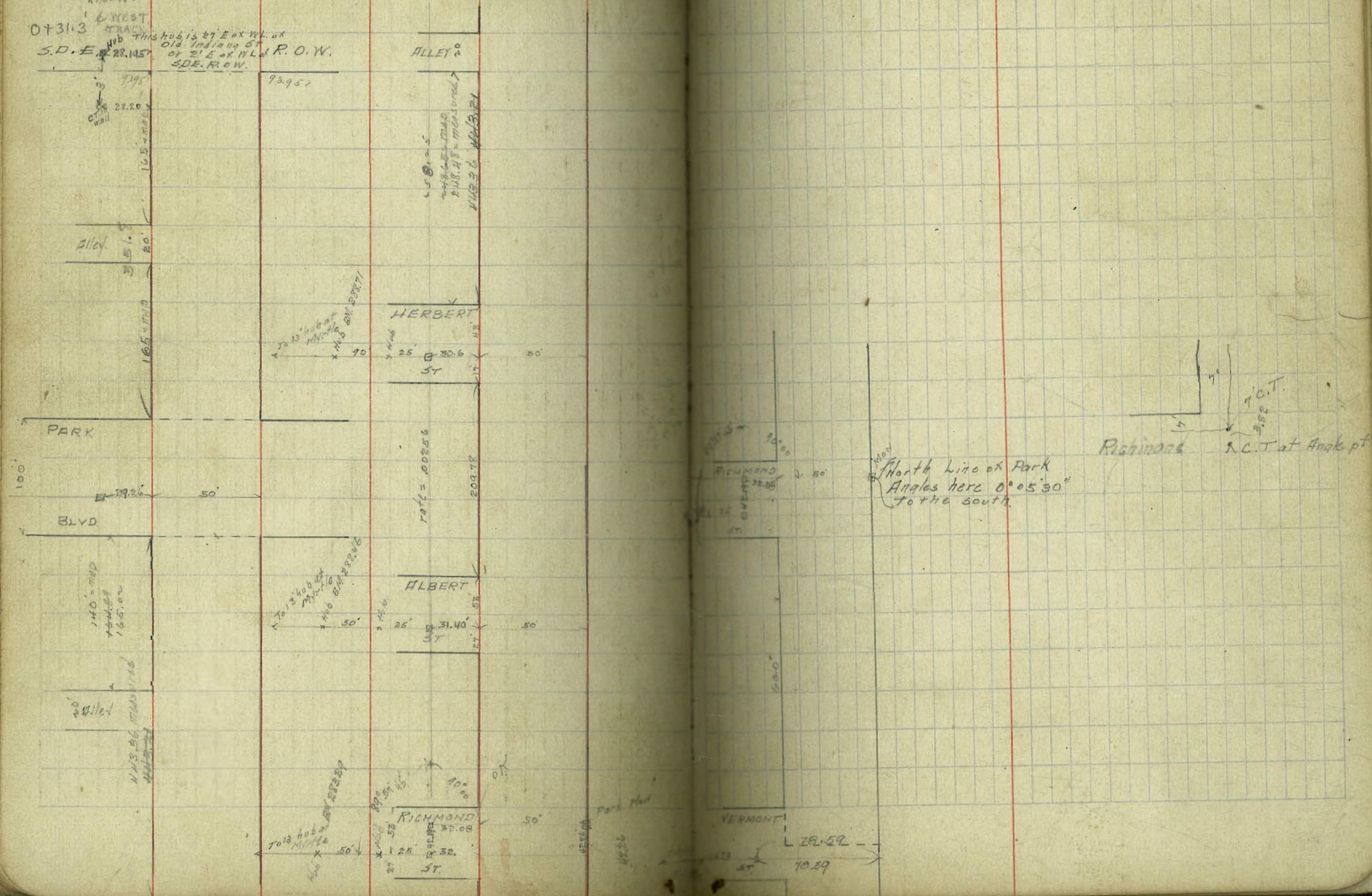
	S	Curb	¼	℄	¼	Curb	N
E. Line Vermont	277.25	277.00	276.85	277.50	277.40	278.00	278.25
E. Curb	277.20	277.00	276.67	277.32	277.22	278.00	278.25
" Quarter	276.00 / 276.40	276.00 / 275.75	276.51	277.16	277.06	277.00 / 276.75	277.25
" Center	276.50	275.50	276.35	277.00	276.90	276.50	276.75
	275.00 / 276.00	275.00 / 276.00				276.00 / 277.00	276.25 / 277.25
W. Line Vermont	276.25	276.00	275.85	276.50	276.40	277.00	277.25

Cover

Cross St. from Old W.L. of Indiana to New W. Line of Indiana 10 walks - 7½ quarters.

	N	Curb	¼	℄	¼	Curb	S
Old W.L.	294.08	293.83				293.87	294.12
Indiana	~~294.25~~	~~294.00~~	~~293.60~~	~~294.00~~	~~293.60~~	~~294.00~~	~~294.25~~
0+11 on S.L. / 0+12 on N.L.	~~294.11~~	~~293.86~~	~~293.46~~	~~293.86~~	~~293.46~~	~~293.86~~	~~294.11~~
0+22 on N.L. / 0+23 on S.L.	~~293.97~~	~~293.72~~	~~293.32~~	~~293.72~~	~~293.32~~	~~293.72~~	~~293.97~~
24.3 E. W. Line S.D.E. R.R. Rt. of W.	293.95	293.70	293.30	293.70	293.30	293.70	293.95

0+31.3 ℄ West Track



298.64
4.10
302.74 H.I.
293.95
8.79

293.70
9.04
293.86
8.88

294.00
8.74

11
30
.0339

ATLANTIC STREET - CEDAR TO GRAPE

	W	CURB	1/4	℄	1/4	CURB	E
S. LINE CEDAR	6.00	5.75				5.50	5.75
" CURB	5.75 4.75	5.75 4.75				5.50 4.50	5.50 4.50
" 1/4							
℄							
N 1/4							
" CURB	4.50 5.50	4.50 5.50				4.00 5.00	4.00 5.00
N. LINE CEDAR	5.75	5.50				5.00	5.25
N LINE CEDAR		5.50				5.00	
SEC. A.							
50' N.							
100' "							
150' "							
200' "							
202 - GRADES EST W 210 - " " E 250 "		4.75				4.25	
300' "							
350' "							
370' "							
403.21' No = S LINE ELM		4.00				3.50	

	W	Curb	¼	℄	¼	Curb	E
S Line Elm		4.00				3.50	
" Curb							
" ¼							
℄							
N ¼							
" Curb							
N Line Elm		4.00				3.50	
N Line Elm		4.00				3.50	
50' No							
100' "							
150' "							
200' "							
202' - Grades W		4.62				4.20	
210' " E.							
250' "							
300' "							
350' "							
400.65' N= Sec B.							
00 N of B on W S Line							
18.12 " " " E } Grade		3.75				3.40	

BANCROFT ST L S LINE ELM TO N " GRADE

	W	CURB	¼	℄	¼	CURB	E
S LINE ELM	225.25	225.00	224.58	224.50	224.08	224.00	224.[illegible]
" CURB	225.00 224.33	225.00 224.33	225.19	225.11	224.64	224.00 223.33	224.[illegible] 223.[illegible]
" ¼	225.33	225.09	225.77	225.66	225.17	224.98	224.[illegible]
℄	226.00	225.86	226.35	226.21	225.70	224.63	225.[illegible]
N ¼	226.33	226.62	226.93	226.76	226.23	225.28	225.[illegible]
" CURB	226.33 227.00	227.33 228.00	227.51	227.31	226.76	225.93 226.60	225.[illegible] 226.[illegible]
N LINE ELM		229.12	228.67	228.57	228.12	228.04	
N LINE ELM		229.12	228.67	228.57	228.12	228.04	
25 N.		230.93	230.49	230.39	229.95	229.87	
50 "		232.75	232.31	232.21	231.77	231.69	
75 "		234.56	234.12	234.03	233.60	233.52	
100		236.37	235.94	235.86	235.43	235.35	
125		238.19	237.76	237.68	237.25	237.17	
150		240.00	239.58	239.50	239.08	239.00	
175		240.83	240.41	240.33	239.91	239.83	
200		241.66	241.24	241.16	240.74	240.66	
225		242.50	242.08	242.00	241.58	241.50	
250		243.33	242.91	242.83	242.41	242.33	
275		244.16	243.74	243.66	243.24	243.16	
300 = S LINE ELR		245.00	244.58	244.50	244.08	244.00	
20 N OF S LER		246.50	246.08	246.00	245.58	245.50	
40 " " " "		248.00	247.58	247.50	247.08	247.00	
60 " " " "		249.50	249.08	249.00	248.58	248.50	
80 = N LINE ELR		251.00	250.58	250.50	250.08	250.00	

BANCROFT STREET

	W	CURB	1/4	℄	1/4	CURB	E
N. LINE FIR		251.00	250.58	250.50	250.08	250.00	
25' N		252.67	252.25	252.17	251.75	251.67	
50'		254.34	253.92	253.84	253.42	253.34	
75		256.00	255.58	255.50	255.08	255.00	
100		256.99	256.57	256.50	256.09	256.01	
125		257.98	257.57	257.50	257.10	257.02	
150		258.97	258.56	258.50	258.11	258.03	
175		259.96	259.56	259.50	259.12	259.04	
200		260.95	260.55	260.50	260.13	260.05	
225		261.94	261.55	261.50	261.14	261.06	
250		262.93	262.54	262.50	262.15	262.07	
275		263.92	263.54	263.50	263.15	263.08	
300 S.L. OF GRADE		264.92	264.55	264.52	264.15	264.08	
S. LINE GRADE		264.92	264.55	264.52	264.15	264.08	
" CURB	14 267.00	265.96	265.46	265.31	264.81	264.67	266.[illegible]
	266.33	265.25				264.00	265.[illegible]
" 1/4	13 267.33	266.05	266.07	265.94	265.45	264.83	266.[illegible]
℄	13 268.00	266.81	266.68	266.57	266.09	265.66	267.[illegible]
N 1/4	13 268.33	267.57	267.29	267.20	266.73	266.49	267.33
" CURB	13 268.33	268.33				267.33	267.33
	269.00	269.00	267.90	267.83	267.37	268.00	268.0[illegible]
N LINE GRADE	14 269.25	269.00	268.58	268.50	268.08	268.00	268.25

See #734 3/24/19

Res #24372 Changing grade

New Grades
Gr. Bk. 97
Pg 25

KEITH'S RAILROAD CURVE TABLE

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P.=23° 20′ to the R. at Station 542+72.

Ext. in Tab. IV opposite 23° 20′=120.87
120.87÷12=10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20′=1183.1
1183.1÷10=118.31.

Tab. V. correction for A. 23° 20′ for a 10° Cur.=0.16
118.31+0.16=118.47=corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20′=23.33°÷10=2.3333=L. C.

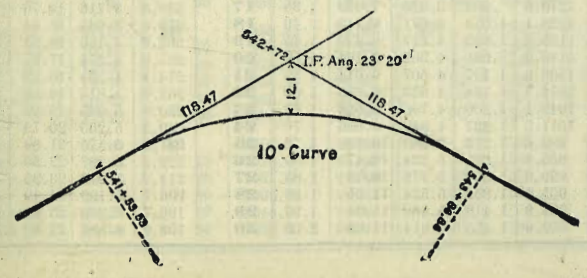
2° 19½′=def. for sta.	542	I. P.=sta.	542+72
4° 49½′= " " "	+50	Tan.=	1.18.47
7° 19½′= " " "	543	B. C.=sta.	541+53.53
9° 49½′= " " "	+50	L. C.=	2.33.33
11° 40′= " " "	543+ 86.86	E. C.=sta.	543+86.86

100—53.53=46.47×3′(def. for 1 ft. of 10° Cur.)=139.41′=
2° 19½″=def. for sta. 542.

Def. for 50 ft.=2° 30′ for a 10° Curve.

Def. for 36.86 ft.=1° 50½′ for a 10° Curve

(These tables are published in Field Books of Keuffel & Esser Co., New York, N. Y.)

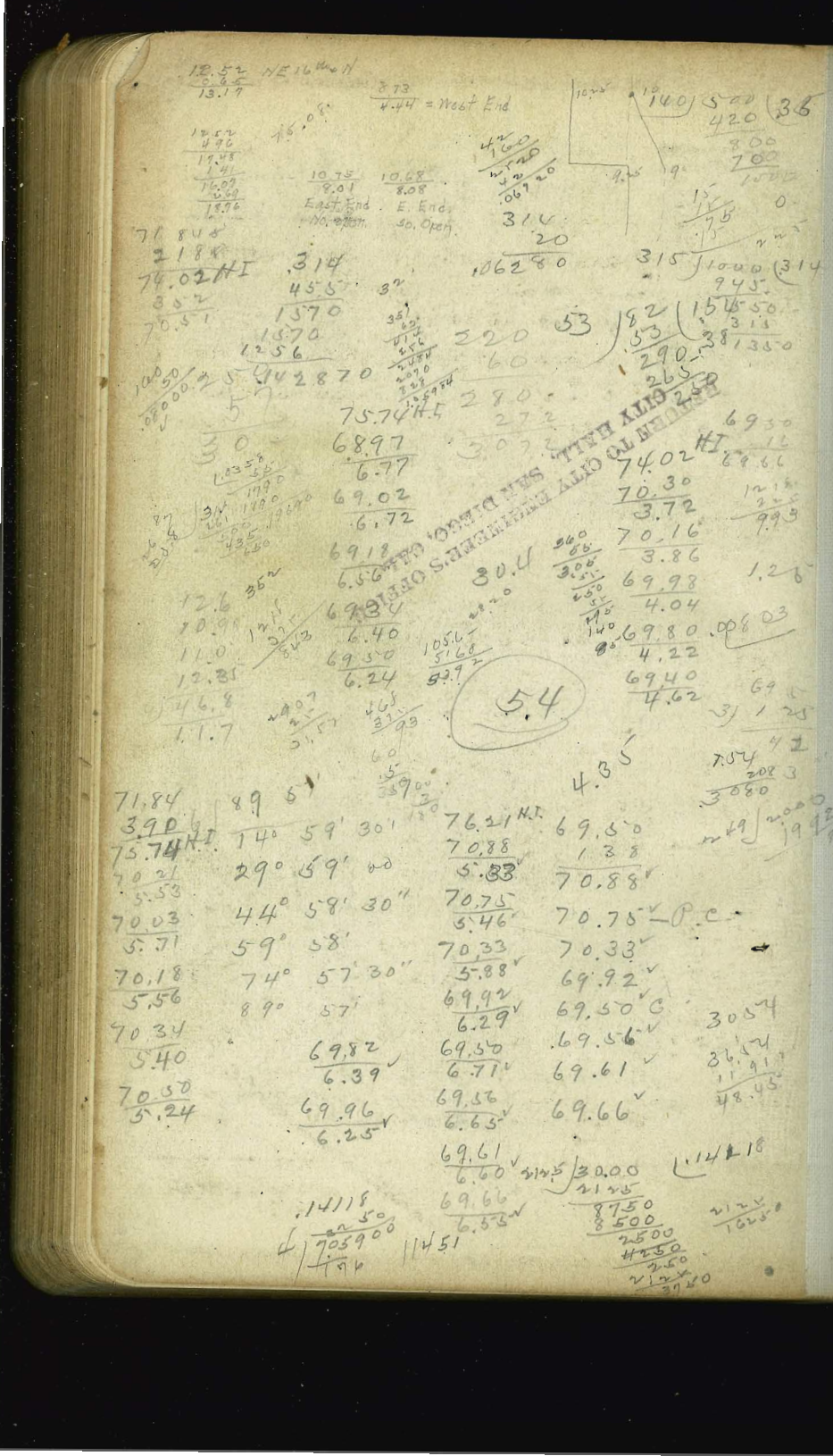


Natural Tangents

deg.	0′	10′	20′	30′	40′	50′	deg.	deg.	0′	10′	20′	30′	40′	50′	deg.
0	0000	0029	0058	0087	0116	0145	89	40	8391	8441	8491	8541	8591	8642	49
1	0175	0204	0233	0262	0291	0320	88	41	8693	8744	8796	8847	8899	8952	48
2	0349	0378	0407	0437	0466	0495	87	42	9004	9057	9110	9163	9217	9271	47
3	0524	0553	0582	0612	0641	0670	86	43	9325	9380	9435	9490	9545	9601	46
4	0699	0729	0758	0787	0816	0846	85	44	9657	9713	9770	9827	9884	9942	45
5	0875	0904	0934	0963	0992	1022	84	45	1.0000	1.0058	1.0117	1.0176	1.0235	1.0295	44
6	1051	1080	1110	1139	1169	1198	83	46	1.0355	1.0416	1.0477	1.0533	1.0599	1.0661	43
7	1228	1257	1287	1317	1346	1376	82	47	1.0724	1.0786	1.0850	1.0913	1.0977	1.1041	42
8	1405	1435	1465	1495	1524	1554	81	48	1.1106	1.1171	1.1237	1.1303	1.1369	1.1436	41
9	1584	1614	1644	1673	1703	1733	80	49	1.1504	1.1571	1.1640	1.1708	1.1778	1.1847	40
10	1763	1793	1823	1853	1883	1914	79	50	1.1918	1.1988	1.2059	1.2131	1.2203	1.2276	39
11	1944	1974	2004	2035	2065	2095	78	51	1.2349	1.2423	1.2497	1.2572	1.2647	1.2723	38
12	2126	2156	2186	2217	2247	2278	77	52	1.2799	1.2876	1.2954	1.3032	1.3111	1.3190	37
13	2309	2339	2370	2401	2432	2462	76	53	1.3270	1.3351	1.3452	1.3514	1.3597	1.3680	36
14	2493	2524	2555	2586	2617	2648	75	54	1.3764	1.3848	1.3934	1.4019	1.4106	1.4193	35
15	2679	2711	2742	2773	2805	2836	74	55	1.4281	1.4370	1.4460	1.4550	1.4641	1.4733	34
16	2867	2899	2931	2962	2994	3026	73	56	1.4826	1.4919	1.5013	1.5108	1.5204	1.5301	33
17	3057	3089	3121	3153	3185	3217	72	57	1.5399	1.5497	1.5597	1.5697	1.5798	1.5900	32
18	3249	3281	3314	3346	3378	3411	71	58	1.6003	1.6107	1.6212	1.6319	1.6426	1.6534	31
19	3443	3476	3508	3541	3574	3607	70	59	1.6643	1.6753	1.6864	1.6977	1.7090	1.7205	30
20	3640	3673	3706	3739	3772	3805	69	60	1.7321	1.7437	1.7556	1.7675	1.7797	1.7917	29
21	3839	3872	3906	3939	3973	4006	68	61	1.8040	1.8165	1.8291	1.8418	1.8546	1.8676	28
22	4040	4074	4108	4142	4176	4210	67	62	1.8807	1.8940	1.9074	1.9210	1.9347	1.9486	27
23	4245	4279	4314	4348	4383	4417	66	63	1.9626	1.9768	1.9912	2.0057	2.0204	2.0353	26
24	4452	4487	4522	4557	4592	4628	65	64	2.0503	2.0655	2.0809	2.0965	2.1123	2.1283	25
25	4663	4699	4734	4770	4806	4841	64	65	2.1445	2.1609	2.1775	2.1943	2.2113	2.2286	24
26	4877	4913	4950	4986	5022	5059	63	66	2.2460	2.2637	2.2817	2.2998	2.3183	2.3369	23
27	5095	5132	5169	5206	5243	5280	62	67	2.3559	2.3750	2.3945	2.4142	2.4342	2.4545	22
28	5317	5354	5392	5430	5467	5505	61	68	2.4751	2.4960	2.5172	2.5386	2.5605	2.5826	21
29	5543	5581	5619	5658	5696	5735	60	69	2.6051	2.6279	2.6511	2.6746	2.6985	2.7228	20
30	5774	5812	5851	5890	5930	5969	59	70	2.7475	2.7725	2.7980	2.8239	2.8502	2.8770	19
31	6009	6048	6088	6128	6168	6208	58	71	2.9042	2.9319	2.9600	2.9887	3.0178	3.0475	18
32	6249	6289	6330	6371	6412	6453	57	72	3.0777	3.1084	3.1397	3.1716	3.2041	3.2371	17
33	6494	6536	6577	6619	6661	6703	56	73	3.2709	3.3052	3.3402	3.3759	3.4124	3.4495	16
34	6745	6787	6830	6873	6916	6959	55	74	3.4874	3.5261	3.5656	3.6059	3.6470	3.6891	15
35	7002	7046	7089	7133	7177	7221	54	75	3.7321	3.7760	3.8208	3.8657	3.9136	3.9617	14
36	7265	7310	7355	7400	7445	7490	53	76	4.0108	4.0611	4.1126	4.1653	4.2193	4.2747	13
37	7536	7581	7627	7673	7720	7766	52	77	4.3315	4.3897	4.4494	4.5107	4.5736	4.6382	12
38	7813	7860	7907	7954	8002	8050	51	78	4.7046	4.7729	4.8430	4.9152	4.9894	5.0658	11
39	8098	8146	8195	8243	8292	8342	50	79	5.1446	5.2257	5.3093	5.3955	5.4845	5.5764	10
deg.	60′	50′	40′	30	20′	10′	deg.	deg.	60′	50′	40′	30′	20′	10′	deg.

deg.	0′	10′	20′	30′	40′	50′	deg.
80	5.6713	5.7694	5.8708	5.9758	6.0844	6.1970	9
81	6.3138	6.4348	6.5606	6.6912	6.8269	6.9682	8
82	7.1154	7.2687	7.4287	7.5958	7.7704	7.9530	7
83	8.1443	8.3450	8.5555	8.7769	9.0098	9.2553	6
84	9.5144	9.7882	10.078	10.385	10.711	11.059	5
85	11.430	11.826	12.250	12.706	13.197	13.727	4
86	14.300	14.924	15.605	16.350	17.169	18.075	3
87	19.081	20.206	21.470	22.903	24.542	26.432	2
88	28.636	31.242	34.368	38.189	42.964	49.104	1
89	57.290	68.750	85.940	114.588	171.885	343.770	
deg.	60′	50′	40′	30′	20′	10′	deg.

Natural Cotangents



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 14 feet wide. Side Slopes 1½ to 1.

For Single Track Embankment.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44 2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.