

Gr. 160

DIEPO

FIELD BOOK

No. 385

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75 NEW MONTGOMERY ST.
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AGENTS FOR

"BERGER" TRANSITS and LEVELS

"GURLEY" SURVEYING and HYDRAULIC INSTRUMENTS

"CHICAGO" STEEL TAPES, etc.

MICROFILMED

APR 9 1965

Indexed c.s.K.

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37.

9426
25-30
51

1115
100

960
P

e

South corner of Lado's Ave.
N.E. B.P.

FL.

Culvert #1

#1

inlet = 00

87.0

0 + 50

86.0

1 + 00 = outlet

85.0

W. CB inlet = curb gr.

95.75

E " " = " "

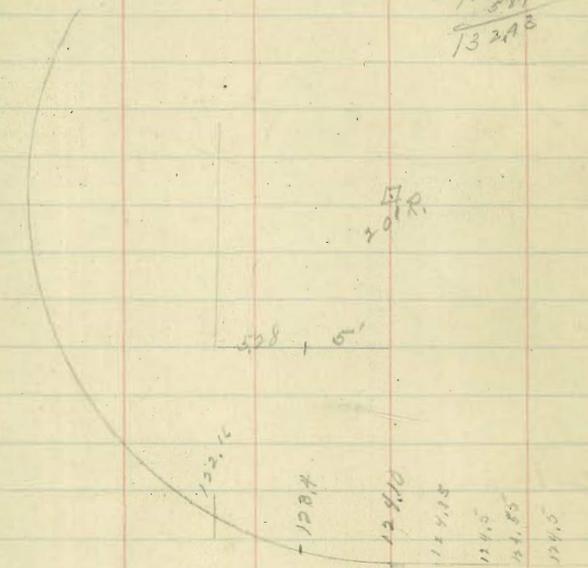
96.75

67.9
 22
 77.10
 1.17
 76.93
 12.63
 88.56
 0.67
 87.89
 2.27
 86.62
 2.18
 84.44
 11.50
 106.16
 1.66
 104.50
 11.26
 115.76
 0.70
 115.06
 11.80
 126.86
 0.27
 126.59
 5.87
 132.46

Inlet 4 outlet

96.94	94.94	96.94
87.0	86.0	85.0
<u>9.94</u>	<u>10.94</u>	<u>11.94</u>
5.57	9.10	11.40
<u>74.17</u>	<u>11.84</u>	<u>7.54</u>
W. CB stake		E. CB stake
96.94		96.94
<u>95.75</u>		<u>96.75</u>
1.19		.19
8.44		8.93
<u>-7.25</u>		<u>-8.74</u>

2



Columbia St Grades

	W.C.	E.C.	
SL Clark = 00 = P.K.	148.0 ✓	149.0 ✓	
0 + 20 = P.K. AT.	143.10 C. 1.0	144.10 ✓	
0 + 00	133.33	134.33	
1	123.55	124.55	
40	113.77	114.77	
+ 50 = P.K.	✓ 104.0 ✓	105.0 ✓	
+ 90	101.76	102.76	
100	✓ 99.88 ✓	100.88 ✓	
+ 110	98.34 ✓	99.34 ✓	
+ 20	✓ 97.17	98.17 ✓	
+ 30	96.34 ✓	97.34 ✓	
+ 40	✓ 95.88 ✓	96.88 ✓	
+ 50	95.75 ✓	96.75 ✓	
+ 60	✓ 95.99 ✓	96.99 ✓	
+ 70	96.59 ✓	97.59 ✓	
+ 80	✓ 97.55 ✓	98.55 ✓	
+ 90 = P.C. Return	✓ 98.84 ✓	99.84 ✓	
MANSON			
3 = N.E. Hills Blvd	100.50	101.50	
end of curb return	100.9	102.5	on North
" " "	101.7	103.65	" South
STANLEY			
SL Hills Blvd = 00	103.0	104.0	
0 + 105 = P.C. Return	✓ 105.0 ✓	106.0 - 0.5	
0 + 60 = P.K.	✓ 115.0 C. 1.0	116.0 ✓	
+ 80	✓ 118.5 ✓	119.5 C. 0.5	
1	✓ 121.3 ✓	122.3 C. 0.5	

See P 27 for Change in
 W.C. & E.C. grade 10/19/29

	W	E	W	E	W	E
	148.0	149.0	143.1	144.1	133.3	134.3
	123.5	124.5	113.7	114.7	103.9	104.9
	99.8	100.8	98.3	99.3	97.1	98.1
	95.7	96.7	95.8	96.8	95.7	96.7
	95.7	96.7	95.9	96.9	95.9	96.9
	96.5	97.5	96.5	97.5	96.5	97.5
	97.5	98.5	97.5	98.5	97.5	98.5
	98.8	99.8	98.8	99.8	98.8	99.8
	100.5	101.5	100.5	101.5	100.5	101.5
	103.0	104.0	103.0	104.0	103.0	104.0
	105.0	106.0	105.0	106.0	105.0	106.0
	115.0	116.0	115.0	116.0	115.0	116.0
	118.5	119.5	118.5	119.5	118.5	119.5
	121.3	122.3	121.3	122.3	121.3	122.3

	W	E	W	E
	100.9	104.4	103.7	101.7
	104.4	103.6	7.3	100.7
	16.5	16.9	57.1	87.1
	7.3	7.5	12.2	57.1
	79.5	79.9	12.2	74.9
	100.5	100.5	104.0	104.0
	99.7	100.5	100.5	100.5
	13.8	8.45	100	100
	11.4	7.36	100	100

128
 95
 53
 300
 32

100.9 104.4 103.7 101.7 = elev. end observations
 on MISSION HILLS BLVD.

Columbia St Grades

	W CB		E CB	
1740	123.3	EL STA.	124.3	✓
1740 = EVC = 0700	124.0	= 0700	125.0	✓
0746.4 = BRK	124.5	0747	125.09	CS
+56.4	124.5	0740	125.5	CS
+66.4 = APC Return	124.10	0747	126.27	CS
+71.4	123.4	1700	127.32	✓
+76.4	124.16	1727	128.76	✓
		1750	130.43	✓
		1760	131.75	✓

set elev stake $\frac{1}{2}$ way
0.05 Higher.

122.16

W	¹³⁴ 123.3	¹³⁴ 124.0	¹³⁴ 124.5	¹³⁴ 124.5	¹³⁴ 124.14	¹³⁴ 123.4
	10.7	10.0	9.0	9.5	9.7	10.0
	10.7	10.0	9.8	10.1	10.7	
	-0.2		-0.8	-1.6	-1.1	
E	¹³⁴ 124.3	¹³⁴ 125.0	¹³⁴ 125.1	¹³⁴ 124.5	¹³⁴ 126.27	¹³⁴ 127.3
	9.7	9.0	9.9	8.5	7.8	6.7
	10.2	10.6	10.8	9.3	3.5	2.2
	+5.2	+1.6	-7.1	+6.2	+4.3	+7.5

W	¹³⁴ 124.16	=	old curb
E	¹³⁴ 128.7	¹³⁴ 130.5	131.75
	5.3	3.5	
	1.8	1.5	
	+3.9		

2/21/27
L
Kettner

Chalmers St. Grades & Paying

Chalmers
India
S.V.P.

India St 6

	N.Cb.		S.Cb.	
0400 = W.L. India	65.98	1.30 1.01	65.96	1.30 1.00
T-505045	62.06	5.12 2.4	61.90	5.28 2.4
T-535304 N	58.15	4.03 3.0	57.83	7.35 10.50
T+104 = Ft. Kettner	54.23	12.25 9.9	53.76	16.69 7.2
24005 = Ft. Kettner	50.32	7.21 18.12	49.69	1.5 10.76

1.20
1.15
1.17
1.26
60.75

20
63.81

66.08
7.22
68.30

50.24
6.39
56.43
5.7

20
63.66

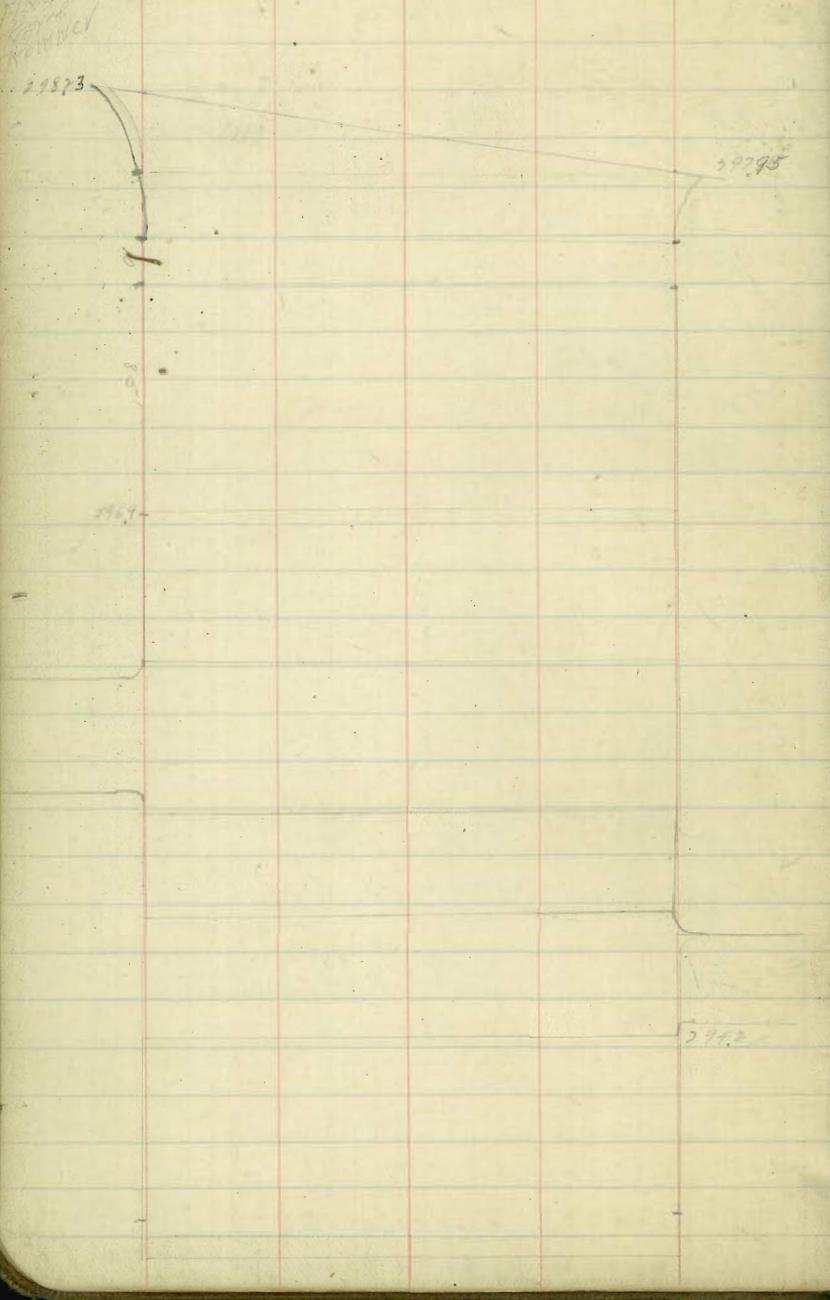
67.30
63.66
4.64

68.30
63.81
4.49

5-53.42

Kettner Blvd

Pennsylvaniaaving - Ry in Cont.



301.01
 2.57
 304.00
 2.54
 311.20
 3.91
 303.11

7

Culvert #1

0+00 = Cb

0+10 = Bk

0+40 = outlet

288.0	12.55
	18.70
279.3	12.22
	15.00
	70.00

296.2

Alley Paving
Blk 17th Plumosa Park

	W.L.		E.L.
NL of E + walkway = 00	144.47		140.18
0 + 10.14	143.30	0 + 12.95	145.0
0 + 40.14 PVC	141.0		141.0
	139.60		139.60
5 (20)	138.50		138.50
	137.60		137.60
	137.10		137.10
1 + 40.14	136.80		136.80
1 + 40.14 = P.C. alley	136.80	1 + 17.95	136.80 = P.C. alley

Culvert #1

	E.L.	
Top GRATING	136.30	6.71 6.92 6.51
Bottom BOX E0+00	137.30	10.71 6.22 3.79
0 + 15.69	130.67	11.34 9.44 3.37
1 + 07.38 = Δ FT.	127.04	13.97 13.21 2.78
1 + 09.10 = outlet on paving	128.84	14.18 14.12 1.00

next page

147.877	14.12	14.25	14.38	14.51	14.64	14.77	14.90	15.03	15.16	15.29	15.42	15.55	15.68	15.81	15.94	16.07	16.20	16.33	16.46	16.59	16.72	16.85	16.98	17.11	17.24	17.37	17.50	17.63	17.76	17.89	18.02	18.15	18.28	18.41	18.54	18.67	18.80	18.93	19.06	19.19	19.32	19.45	19.58	19.71	19.84	19.97	20.10	20.23	20.36	20.49	20.62	20.75	20.88	21.01	21.14	21.27	21.40	21.53	21.66	21.79	21.92	22.05	22.18	22.31	22.44	22.57	22.70	22.83	22.96	23.09	23.22	23.35	23.48	23.61	23.74	23.87	24.00	24.13	24.26	24.39	24.52	24.65	24.78	24.91	25.04	25.17	25.30	25.43	25.56	25.69	25.82	25.95	26.08	26.21	26.34	26.47	26.60	26.73	26.86	26.99	27.12	27.25	27.38	27.51	27.64	27.77	27.90	28.03	28.16	28.29	28.42	28.55	28.68	28.81	28.94	29.07	29.20	29.33	29.46	29.59	29.72	29.85	29.98	30.11	30.24	30.37	30.50	30.63	30.76	30.89	31.02	31.15	31.28	31.41	31.54	31.67	31.80	31.93	32.06	32.19	32.32	32.45	32.58	32.71	32.84	32.97	33.10	33.23	33.36	33.49	33.62	33.75	33.88	34.01	34.14	34.27	34.40	34.53	34.66	34.79	34.92	35.05	35.18	35.31	35.44	35.57	35.70	35.83	35.96	36.09	36.22	36.35	36.48	36.61	36.74	36.87	37.00	37.13	37.26	37.39	37.52	37.65	37.78	37.91	38.04	38.17	38.30	38.43	38.56	38.69	38.82	38.95	39.08	39.21	39.34	39.47	39.60	39.73	39.86	39.99	40.12	40.25	40.38	40.51	40.64	40.77	40.90	41.03	41.16	41.29	41.42	41.55	41.68	41.81	41.94	42.07	42.20	42.33	42.46	42.59	42.72	42.85	42.98	43.11	43.24	43.37	43.50	43.63	43.76	43.89	44.02	44.15	44.28	44.41	44.54	44.67	44.80	44.93	45.06	45.19	45.32	45.45	45.58	45.71	45.84	45.97	46.10	46.23	46.36	46.49	46.62	46.75	46.88	47.01	47.14	47.27	47.40	47.53	47.66	47.79	47.92	48.05	48.18	48.31	48.44	48.57	48.70	48.83	48.96	49.09	49.22	49.35	49.48	49.61	49.74	49.87	50.00
---------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Filey, Favington
BIR "M" PLUMOSA Park

	W.L.		E.L.	
PL. 200	136.80		136.80	
O+W 2.55.3	137.0		137.0	
O+W = EVC	137.40		137.40	
1	138.0	138.05	138.0	138.05
2	138.60	138.78	138.60	138.71
3	139.20	139.47	139.20	139.36
4	139.80	140.18	139.80	140.02
5 (20)	140.40	140.85	140.40	140.85
6	141.0	141.54	141.0	141.53
7	141.60	142.23	141.60	141.93
8	142.20	142.92	142.20	142.84
9 = PVC 143.2	142.80	143.6	142.80	143.8
10	143.30	144.2	143.30	143.9
11	143.60	144.80	143.60	144.0
12	143.70	144.7	143.70	143.8
13	143.60	143.3	143.60	143.6
14	143.30		143.30	
15	142.80		142.80	
16	142.10		142.10	
17 = EVC	141.30		141.30	
18 (20)	140.40		140.40	
19 = EVC Riley	139.50		139.50	

next page

141.1
5.2
141.7

	W.	E.	W.	E.
	370	374	380	386
	10.27	7.87	9.01	8.64
	7.52	5.30	6.03	7.12
	+2.74	+4.57	+4.18	+1.94
			+2.84	+1.26
	37.0	37.4	380	386
	10.27	7.87	7.29	8.64
	7.52	5.30	6.12	7.12
	+2.04	+4.73	+7.24	+4.7
			+2	-5
	41.6	42.4	42.8	43.3
	5.27	6.57	5.97	5.47
	4.74	5.12	4.64	4.32
	+4.05	+7.84	+7.31	+7.3
	+3.32	+4.52	+3.51	+3.1
	41.6	42.2	42.8	43.3
	5.27	5.07	7.17	3.97
	6.22	5.02	4.20	3.80
	-1.77	-7.04	-1.20	-3.81
	-1.03	-1.40	-7.6	-1.91
	42.1	41.3	40.4	39.5
	6.67	7.47	8.37	9.27
	4.72	5.52	4.01	2.17
	+2.87	+2.82	+2.30	+2.08
	42.1	41.3	40.4	39.5
	6.67	7.47	8.37	9.27
	4.72	5.52	4.01	2.17
	+2.85	+2.8	+2.2	+2.0

9

ON/ BY PAVING
 BIK "M" PLUMOSA PARK

	W.L	EL
brought forward		
E.C. on alley	139.50	139.50
	137.50	137.50
2 (40)	135.50	135.50
3 = A ft.	133.50	133.50
1 (43.44)	132.40	132.40
	131.80	131.80
4 (10)	131.0	131.0
	129.90	129.90
↓	128.70	128.70
1 (24.7) = paving on Hyacinth Dr.	125.30	124.80

3 (41.11)

145.77
 131.23
 11.2
 131.73

	W.	E.
	39.5	35.6
	11.27	13.27
	9.23	13.24
	3.05	4.63
	33.5	33.5
	5.20	5.20
	6.83	6.83
	32.4	32.4
	31.8	31.8
	31.0	31.0
	27.7	28.7
	8.83	10.03
	7.12	7.58
	4.16	4.25
	125.30	
	13.53	
	13.87	
	4.06	
	124.80	
	13.23	
	13.83	
	7.70	

10

9/5/39
 1/800
 Rammer
 1/400

Alley Paving Bk. 407 Hopingstone Add.
 Rease-Contn.

	S. Side		N. Side	
0+00 = FL 37 th ST	55.6	3.59 3.33 -0.26	55.85	3.29 3.33 -0.04
+10 = P.V.C.	59.7	10.77 9.33 -1.44	59.9	12.00 11.33 -0.67
+60	61.5	8.17 7.13 -1.04	61.7	8.70 7.90 -0.80
+80 = F.V.C.	62.8	7.67 7.25 -0.42	63.0	7.70 7.70 0.00
+105	65.1	5.37 5.22 -0.15	65.3	5.75 5.52 -0.23
+160 = P.V.C.	67.4	2.34 1.80 -0.54	67.6	2.87 2.27 -0.60
+80	68.4	6.34 7.33 -1.01	68.6	6.74 7.00 -0.26
+100 = F.V.C.	69.1	5.18 6.00 -0.82	69.3	5.44 6.22 -0.78
	70.02	4.72 7.77 -3.05	70.22	4.52 5.11 -0.59
	70.95	3.79 3.28 -0.51	71.15	3.59 3.14 -0.45
	71.87	2.87 2.55 -0.32	72.07	2.79 2.31 -0.48
	72.8	4.26 6.23 -1.97	73.0	4.06 5.07 -1.01
	73.72	5.34 5.24 -0.10	73.92	5.14 4.74 -0.40
	74.65	4.11 -0.06	74.85	7.31 6.81 -0.50
	75.57	7.09 6.03 -1.06	75.77	6.89 6.89 0.00
+5+100 P.V.C.	76.5	4.16 6.37 -2.21	76.7	5.96 6.88 -0.92
+40	77.1	5.54 5.29 -0.25	77.3	5.32 5.22 -0.10
+60 = F.V.C.	77.8	4.76 4.39 -0.37	78.0	4.66 4.29 -0.37
+100 = W.L. 38 th ST, 79.3	79.3	3.16 3.01 -0.15	79.7	2.96 2.75 -0.21

Culvert #1 = STA 2140 E of FL 37th ST

N. End = N.L. + 3.78 369.0
 S " = S.L. + 8.9 364.8

Raised 1.0

19.00	371.00	371.00
21.00	372.00	372.00
23.00	373.00	373.00
25.00	374.00	374.00
27.00	375.00	375.00
29.00	376.00	376.00
31.00	377.00	377.00
33.00	378.00	378.00
35.00	379.00	379.00
37.00	380.00	380.00
39.00	381.00	381.00
41.00	382.00	382.00
43.00	383.00	383.00
45.00	384.00	384.00
47.00	385.00	385.00
49.00	386.00	386.00
51.00	387.00	387.00
53.00	388.00	388.00
55.00	389.00	389.00
57.00	390.00	390.00
59.00	391.00	391.00
61.00	392.00	392.00
63.00	393.00	393.00
65.00	394.00	394.00
67.00	395.00	395.00
69.00	396.00	396.00
71.00	397.00	397.00
73.00	398.00	398.00
75.00	399.00	399.00
77.00	400.00	400.00
79.00	401.00	401.00
81.00	402.00	402.00
83.00	403.00	403.00
85.00	404.00	404.00
87.00	405.00	405.00
89.00	406.00	406.00
91.00	407.00	407.00
93.00	408.00	408.00
95.00	409.00	409.00
97.00	410.00	410.00
99.00	411.00	411.00
101.00	412.00	412.00
103.00	413.00	413.00
105.00	414.00	414.00
107.00	415.00	415.00
109.00	416.00	416.00
111.00	417.00	417.00
113.00	418.00	418.00
115.00	419.00	419.00
117.00	420.00	420.00
119.00	421.00	421.00
121.00	422.00	422.00
123.00	423.00	423.00
125.00	424.00	424.00
127.00	425.00	425.00
129.00	426.00	426.00
131.00	427.00	427.00
133.00	428.00	428.00
135.00	429.00	429.00
137.00	430.00	430.00
139.00	431.00	431.00
141.00	432.00	432.00
143.00	433.00	433.00
145.00	434.00	434.00
147.00	435.00	435.00
149.00	436.00	436.00
151.00	437.00	437.00
153.00	438.00	438.00
155.00	439.00	439.00
157.00	440.00	440.00
159.00	441.00	441.00
161.00	442.00	442.00
163.00	443.00	443.00
165.00	444.00	444.00
167.00	445.00	445.00
169.00	446.00	446.00
171.00	447.00	447.00
173.00	448.00	448.00
175.00	449.00	449.00
177.00	450.00	450.00
179.00	451.00	451.00
181.00	452.00	452.00
183.00	453.00	453.00
185.00	454.00	454.00
187.00	455.00	455.00
189.00	456.00	456.00
191.00	457.00	457.00
193.00	458.00	458.00
195.00	459.00	459.00
197.00	460.00	460.00
199.00	461.00	461.00
201.00	462.00	462.00
203.00	463.00	463.00
205.00	464.00	464.00
207.00	465.00	465.00
209.00	466.00	466.00
211.00	467.00	467.00
213.00	468.00	468.00
215.00	469.00	469.00
217.00	470.00	470.00
219.00	471.00	471.00
221.00	472.00	472.00
223.00	473.00	473.00
225.00	474.00	474.00
227.00	475.00	475.00
229.00	476.00	476.00
231.00	477.00	477.00
233.00	478.00	478.00
235.00	479.00	479.00
237.00	480.00	480.00
239.00	481.00	481.00
241.00	482.00	482.00
243.00	483.00	483.00
245.00	484.00	484.00
247.00	485.00	485.00
249.00	486.00	486.00
251.00	487.00	487.00
253.00	488.00	488.00
255.00	489.00	489.00
257.00	490.00	490.00
259.00	491.00	491.00
261.00	492.00	492.00
263.00	493.00	493.00
265.00	494.00	494.00
267.00	495.00	495.00
269.00	496.00	496.00
271.00	497.00	497.00
273.00	498.00	498.00
275.00	499.00	499.00
277.00	500.00	500.00

9/10/39

Flood
Payroll
Remainder
Karl 1939

Union St Paving Quince to Palm

	FC	Y.C.B.
0+00 = S1 Quince St	205.0	203.0
0+53	203.26	201.79
0+70.25	203.33	201.51
1		200.4
2		199.3
3		198.2
4		197.1
5 3+00 = N1 Palm	198.01	196.0
3+05 = P.C. Palm		195.8
3+40	197.0	
3+60		
3+70		
3+75 = P.C.		195.25
3+80 = S1 Palm	196.0	195.0
3+85 = Fire Hydrant	195.70	
3+90 = Fire Hydrant	195.3	194.3

203.0	203.22
50	
201.74	
17.25	
201.51	
10	
200.55	
199.39	
198.63	
197.66	
196.70	

198.15
2.18
200.33
196.32
3.31

Water Line

0+00 = 18" x 21" Cross 30' W of S1 Palm	92.0
0+130 = 6" Cl. Gate Valve	92.0
0+40 = connect to 8" Main Fire Hydrant	91.5
	195.70

194.70	195.25	195.30	195.35	195.40	195.45	195.50	195.55	195.60	195.65	195.70	195.75	195.80	195.85	195.90	195.95
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45

Oct. 2nd

196.33 197.0

194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45
194.70	194.75	194.80	194.85	194.90	194.95	195.00	195.05	195.10	195.15	195.20	195.25	195.30	195.35	195.40	195.45

7/11/57
 Flood
 Police
 Kammen
 Kanopy

Alleys 71-72 O.B. Riches Cont

Alley 72	W Side		E Side	
0+00 = S.L. Newbor	7.75	6.18 2.15 7.23	8.0	5.93 5.28 7.23
+ 10 = Brk	8.3	5.43 3.13 7.20	8.3	5.43 5.23 7.10
+ 53 ³³	10.66	11.60 4.57 7.03	10.73	11.53 7.24 7.07
+ 96 ²⁶	13.03	9.23 16.35 -1.12	13.17	7.09 7.24 7.29
1+40 = N.L. Alley E.O.W.	15.7	1.86 5.86 7.10	15.6	7.66 6.23 7.14
+ 60 = S.L. Alley	16.38	5.84 3.26 7.27	16.2	4.06 5.38 7.48
2+06 ²⁶	18.69	7.49 5.57 7.10	18.53	3.73 3.12 7.61
+ 53 ³³	21.00	5.17 3.21 7.24	20.86	5.31 7.22 7.74
+ 90 = Brk	22.8	3.37 1.37 7.00	22.7	3.47 3.13 7.34
3+00 = N.L. Niagara	23.73	2.42 2.57 -0.05	23.3	2.97 2.97

New Port & Bacon
 N.E.B.P.

11.05
4.86
15.89
6.22
17.97
10.52
28.27
3.51
27.78
3.22
28.20
2.57
26.63
2.54
26.17
5.22
20.49
1.24
21.25
17.02
10.67
3.22
15.83

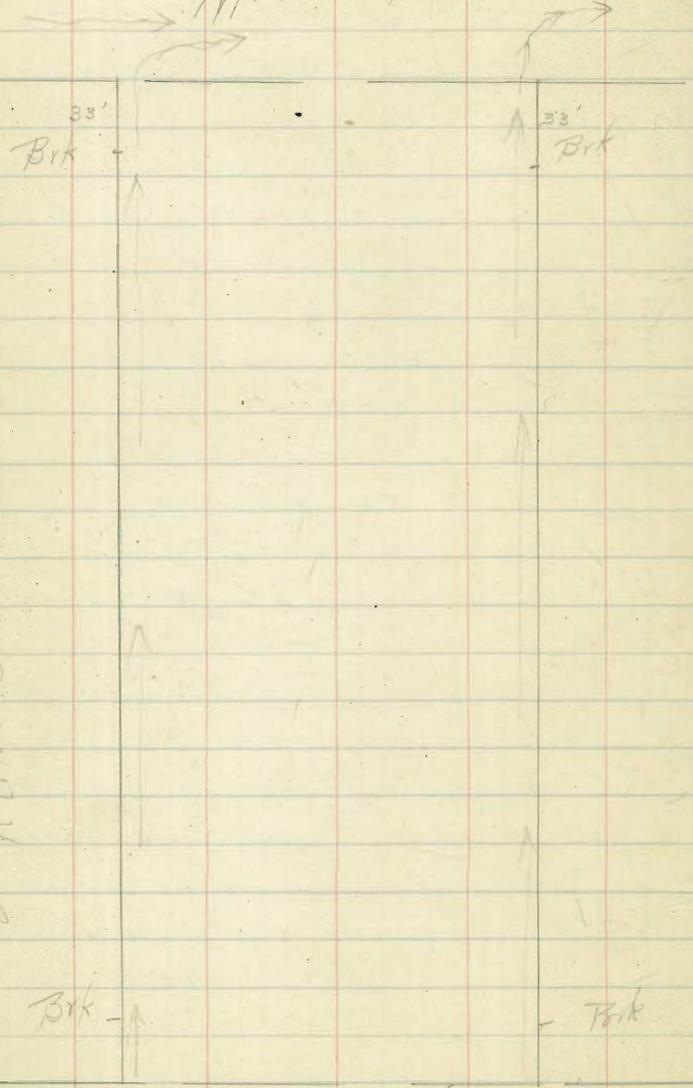
1st N.L. Niagara & beyond

Alley 71	W Side		E Side	
0+00 = S.L. Niagara	23.8	4.44 4.41 5.22	23.6	4.69 4.73 7.04
+ 10 = Brk	23.6	4.44 4.22 7.06	23.6	4.69 4.37 7.34
+ 53 ³³	22.7	5.59 2.89 7.00	22.7	5.50 5.22 7.07
+ 96 ²⁶	21.8	4.44 4.22 7.00	21.8	4.40 5.22 7.76
1+35 = Brk			21.0	7.20 4.00 7.20
1+40	20.9	7.20 2.89 7.07	20.7	7.20 6.97 7.081

600
1750
Remmen

Mechanic St. Paving Griffith Co
Cont

Meade Ave. A Cr.

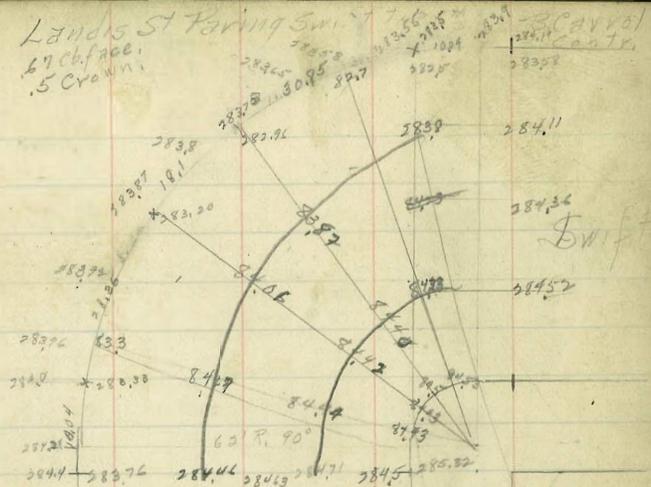


Take Grade

Monroe Ave

41000
 70000
 50000

Lands St Farming Sw
 by ch face
 .5 Crown



8296
 8254.6

17

Co. inlet #1: 0+00
 Flow Line
 + 27
 + 54 = Outlet

13.5	+ 5.0
78.5	
76.25	14.33
74.	47.20
	11.70
	12.15
	- 1.8

326.34 R.M. N.W.B.P. 55 1/2 Lands
 1.06
 327.40
 13.71
 314.69
 0.19
 314.88 - 885 = 3060 3
 12
 302.88
 15
 303.03
 12.71
 290.32
 0.22
 290.58

5.21 5.45

354

	N.C.B.		S.C.B.	
1+60	86.87	$\frac{10.0}{10.5}$ -0.5V	88.17	$\frac{6.2}{4.5}$ +1.7V
2+0	87.83	$\frac{9.9}{10.4}$ -0.5V	88.33	$\frac{5.7}{4.1}$ +1.6V
+40	87.2	$\frac{9.7}{10.2}$ -1.0V	88.53	$\frac{5.7}{6.6}$ +2.3V
+80	87.37	$\frac{8.5}{10.3}$ -0.8V	88.67	$\frac{8.2}{6.2}$ +2.0V
3+30	87.53	$\frac{9.4}{10.1}$ -0.7V	88.83	$\frac{8.1}{6.1}$ +2.0V
+60	87.7	$\frac{9.2}{10.5}$ -0.3V	89.0	$\frac{7.9}{6.0}$ +1.9V
4+00	87.87	$\frac{9.0}{10.1}$ -0.1V	89.17	$\frac{7.2}{6.2}$ +1.0V
+40	88.03	$\frac{8.8}{10.3}$ +0.5V	89.33	$\frac{7.6}{6.2}$ +1.4V
+80 = P.V.C.	88.2	$\frac{8.7}{10.5}$ +0.5V	89.5	$\frac{7.4}{6.4}$ +1.0V
5+0	88.2	$\frac{8.7}{10.9}$ +0.2V	89.4	$\frac{7.5}{6.2}$ +1.3V
+30	87.9	$\frac{9.0}{10.1}$ -0.1V	89.0	$\frac{7.1}{6.2}$ +0.9V
+40	87.4	$\frac{9.5}{10.1}$ -0.1V	88.3	$\frac{7.6}{6.3}$ +1.3V
+60 = E.V.C.	86.7	$\frac{10.2}{10.6}$ -1.0V	87.4	$\frac{8.8}{6.8}$ +2.0V
+90	85.43	$\frac{11.4}{10.7}$ +1.3V	85.78	$\frac{11.1}{10.2}$ +0.9V
6+20 = W.L. 30% ST	84.16	$\frac{7.51}{7.62}$ -0.11	84.16	$\frac{7.51}{7.61}$ -0.10
60' ST 10' Walks 10'R				
0+00 = E.L. 30% ST	82.12	$\frac{2.07}{2.13}$ -0.06	82.07	$\frac{2.12}{2.17}$ -0.05
3-46.00	77.64	$\frac{5.35}{5.3}$ +0.05	77.18	
	73.17	$\frac{11.10}{8.1}$ +3.0	72.09	
1+40	68.7	$\frac{15.15}{14.3}$ +0.85	67.7	
+80	66.14	$\frac{7.6}{6.0}$ +1.6	64.84	
2+20	63.58	$\frac{9.7}{10.7}$ -1.0	62.38	
+60	61.02	$\frac{13.5}{12.5}$ +1.0	59.72	
3+00	58.46	$\frac{15.0}{14.3}$ +0.7	57.16	
+40 = P.V.C.	55.9	$\frac{17.4}{16.6}$ +0.8	54.6	$\frac{7.35}{7.35}$ 0.0

87.10	87.5	87.7	87.8	88.0	88.2	88.3	88.5	88.7	88.8	89.0
4.95	4.5	4.3	4.2	4.0	3.8	3.7	3.5	3.3	3.2	3.0
92.05	4.8	4.5	4.4	4.0	3.6	3.3	3.5	3.0	2.7	2.5
9.00	-0.3	-0.2	-0.2	0.0	+0.2	+0.4	0.0	+0.3	+0.5	+0.5
84.05										
86.2	86.7	86.5	86.7	86.9	87.0	87.2	87.4	87.5	87.7	
5.8	5.6	5.5	5.3	5.1	5.0	4.8	4.6	4.5	4.3	
6.6	6.2	6.2	6.2	6.0	5.9	6.0	5.5	5.2	5.0	
-0.8	-0.9	-0.7	-0.9	-0.9	-0.9	-1.2	-0.9	-0.7	-0.7	
89.2	89.3	89.5	89.4	89.0	88.3	87.4	85.8	84.16		
2.8	2.7	2.5	2.6	3.0	3.7	4.6	6.2	7.89		
2.1	2.3	2.5	2.9	3.5	4.2	5.5	7.4	8.02		
+0.7	+0.4	0.0	-0.3	-0.5	-0.5	-0.9	-1.2			
87.9	88.0	88.2	88.2	87.9	87.4	86.7	85.4	84.16		
4.1	4.0	3.8	3.8	4.1	4.6	5.3	6.6	7.89		
4.7	4.8	3.8	4.6	5.1	5.8	6.8	7.2	8.02		
-0.6	-0.8	0.0	-0.2	-1.0	-1.2	-1.0	-0.6	0.111		

4.3
2.8
7.1
+0.3
+1.1

1.7
4.7
6.4
6.8

	N.Cb		S.Cb	
3+60	54.7	7.1 6.0 +1.1	53.4	✓
+80	53.7	8.1 5.4 +2.7	52.4	
+100	53.0	8.9 7.5 +1.4	51.7	
+120	52.5	9.3 7.0 +2.3	51.2	
+140	52.2	9.6 8.5 +1.1	50.9	
+160	52.1	9.7 8.1 +1.6	50.8	
+180	52.2	9.2 8.8 +0.4	50.9	
+200	52.6	9.2 8.0 +1.2	51.3	
+220	53.1	8.7 8.1 +0.6	51.8	
+240	54.0	2.8 3.8 +1.0	52.7	
+260	55.0	6.8 5.8 +1.0	53.7	
+280	56.2	5.6 5.2 +0.4	54.9	
+290 PC	56.8	5.0 0.8 +4.2	55.5	
6700 - HL 315157	57.5	2.3 0.8 +1.5	56.1	
60'5" ^{10' Cb} _{50' R}				
0700 - EL 315157	59.3	8.7 8.0 +0.7	58.1	
+10	60.0	8.0 4.0 +4.0	58.7	
+40 = R.Y.C. on N	62.1	5.9 4.8 +1.1		
+60	63.3	4.7 3.8 +0.9	62.0	
+80	64.4	3.6 3.1 +0.5	63.2	
+100	65.4	10.4 9.3 +1.1	64.2	
+120	66.2	9.6 8.0 +1.6	65.0	
+140	66.8	9.0 8.4 +0.6	65.6	
+160 = F.H.C.	67.2	8.5 7.2 +1.3	66.1	
+200	67.83	8.0 6.3 +1.7	66.74	

	8.4 7.2 +1.2	9.4 8.3 +1.1	10.1 10.5 -0.4	10.6 10.9 -0.3	10.9 10.2 +0.7	11.0 10.3	11.4 10.7			
84.05										
84.39	N	82.12	77.6	73.2	68.7	66.1	63.6	61.0	58.5	55.9
84.78		2.27	5.8	11.2	3.3	5.9	8.4	11.0	4.6	7.2
85.17		2.34	2.4	11.1	2.0	4.9	7.8	10.5	5.3	7.1
85.56			+0.4	10.1	7.3	7.0	4.6	4.5	-0.7	4.1
85.95										
86.34	N	54.7	53.7	53.0	52.5	52.2	52.1	52.2	52.6	53.1
86.73		8.4	9.4	10.1	10.6	10.9	11.0	10.9	10.5	10.0
87.12		8.5	9.5	10.3	10.8	11.1	11.0	10.8	10.4	9.4
87.51		-0.1	-0.1	-0.2		-0.2	0.0	0.1	0.1	0.6
87.90	S		52.4	51.7	51.2	50.9	50.8	50.9	51.3	51.8
88.29			10.7	11.4	11.9	12.2	12.3	12.2	11.8	11.3
88.68	S		10.8	10.6	11.7	12.4	11.5	12.1	11.7	11.7
89.07			+0.2	+0.8	+0.2	-0.2	+0.8	+0.1	+0.1	-0.4
89.46	N		54.0	53.0	56.2	56.80	57.5			
89.85			9.1	8.1		6.29				
90.24			8.1	7.3		6.25				
90.63			7.0	7.0		0.24				
91.02	S		52.7	53.7	54.9	55.50	56.1			
91.41			10.4	9.4		7.59				
91.80			11.3	9.9		7.55				
92.19			-0.9	-0.5		7.55				

Franklin St Waterline
6' Main Set 5' below 5.14

0+00 = Fl. 28 th	81.5	82.0	13.40 2.25 + 5.34 11.67
+ 40	82.73	83.35	8.65 131.82 10.24
+ 80 ⁶	84.36	84.70	6.934 + 3.34 1.80
+ 120 ⁴⁰	85.80	86.05	5.27 7.37
+ 60	87.23	87.40	3.74 3.43 5.94
250	88.66	88.75	2.83 3.11
+ 40 = T.I.C.	90.1	90.1	7.30 1.17 3.33
1		90.7	8.57 5.24 3.24
2 ⁶		91.1	8.11 1.44 4.55
3 ³⁰		91.3	7.91 4.24 3.57
4		91.3	7.81 2.88 3.45
5		91.1	8.11 4.32 8.57
6 3+60 = F.V.C.		90.80	8.41 4.27 3.27
1		89.86	7.35 5.28 3.57
2 ⁶		88.92	10.27 6.73 3.52
3 ⁴⁰		87.98	11.23 7.45 3.78
4		87.04	12.17 8.57 3.60
5		86.1	13.11 9.25 3.75
6 6+00 = V.L. 29		85.16	14.05 10.24 3.51
+ 60 = F.L. 27		83.66	15.55 11.27 3.24
1		83.83	15.38 12.14 3.24
2 ¹²		84.0	15.2 16.63 3.59
3 ^{70.5}		84.17	7.50 3.71 3.41
4		84.34	7.35 3.85 3.75
5		84.51	7.16 3.25 3.51

on valve
cut

Fr. 32nd SW. 18.01 Top of 2522
W. 4 32nd SW. 7.07 of 2522
W. 4 30 NW. 8.08
+ 28 " "

22
88.08
47.61

N.E. B.P.
28th D.V. B.W.

91.05	3.00
87.61	
91.05	3.55
94.60	
11.27	
93.49	
83.8	
99.71	
11.63	
87.58	
4.09	
91.67	
89.18 B.M. 21 see sketch	
7.13	
91.36	

8.58
4.57
3.81
9.73
5.16
10.16
6.55
+ 3.71
11.20
7.24
3.54

6		84.68	4.99 2.52 5.40	
7	12 + 405	84.85	6.82 3.14 3.18 6.65	2.98 6.26 3.72
8		85.02	2.72 2.73 6.48 2.56	7.81 6.07 5.79
9		85.19	3.93 6.31 3.48	5.74 9.64 5.22
10		85.36	2.93 2.14 2.13	5.91 9.47 5.54
11		85.53	4.63 5.97 2.34	5.93 8.30 4.70
12	11 + 80 = P.K.C	85.7	5.21 4.00 2.89	3.69 9.23
1	4-505	85.67	3.17 6.37 3.53	3.70 6.26 + 3.14
2		85.3	2.57 7.02 4.52 2.00	10.35 7.85
3		84.65	7.87 5.94 7.10	7.20 8.60 + 2.6
4	5 + 60	83.8	9.97 9.43 2.54	13.90 10.71 3.1
	6 + 00 = 30 Wn / W. 30	81.7		
	W.L. 30 + 20 = Con. to EX 12 Wzin			
	E.L. 30 W	78.5	3.33 0.78 + 8.35	
1	3	73.8	5.53 5.32 + 3.16 13.13	
2	4, 6, 65	69.1	10.43 + 2.8 7.06	
3	1 + 40 = B.K.	64.4	3.33 + 3.72	
1		61.21	10.24 7.43 + 2.81 13.42 15.11 + 2.61	
2	4-505	58.03	4.76 3.70 + 2.06	
3		54.34	7.95 5.00 + 2.95 9.15 6.18 + 2.96	
4	3 + 40 = P.K.C.	57.65	10.15 7.0 + 3.05	
5		50.45		
2	13-305	49.45		
3		48.75	10.85 3.25 + 3.62 11.35 3.33	
4		48.25	+ 2.03	

82.12 Total C.B.N. # 30 # 5+

0.21
82.33
11.88
70.45
1.20
71.45
12.54
58.91
0.69
59.60
0.37
59.21
16.42
47.63
11.30
18.33
7.41
75.74

5		47.95	11.25 8.63 + 8.02	
6		47.85	11.75 8.72 + 8.03	
7		47.95	11.25 8.55 + 8.10	
8		48.35	11.35 8.20 + 8.05	
9		48.85	10.75 8.60 + 8.15	
10		49.75	9.85 8.60 + 8.05	
11		50.75	9.75 8.25 + 8.75	
12		51.95	9.65 8.05 + 8.61	
13	Contour 2 1/2 line 6400 - W.L. 3 1/2	53.15	8.45 8.10 + 8.35	
	+ 60 EL. 3 1/2, Contour 2 1/2 line	54.9	8.70 8.05 + 8.10	
	0140 = R.P.C.	57.7	11.73 9.04 + 8.90	
11		58.9	10.43 9.07 + 8.76	
2		60.1	9.53 8.50 + 8.73	
3	6-303	61.1	8.68 8.55 + 8.78	
4		61.9	8.73 8.63 + 8.91	
5		62.5	7.13 8.53 + 8.60	2.8
6	1460 = R.V.C.	63.0	8.23 8.30 + 8.48	2.8
11		63.63	6.00 8.42 + 8.58	2.8
2		64.26	5.87 8.57 + 8.78	3.0
3		64.89	10.85 7.83 + 8.03	
4		65.52	10.24 7.84 + 8.44	2.9
5		66.15	8.60 8.07 + 8.57	2.8
6		66.78	8.96 8.18 + 8.72	3.0
7		67.41	8.33 8.27 + 8.56	3.0
8		68.04	7.7 8.23 + 8.91	3.0

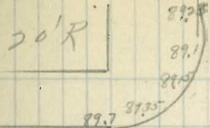
11-505

9		68.67	70.2 4.22 2.81	3.0
10	2 C.I. Plug.	69.3	6.44 3.80 2.94	
11	6100 = W.L. 32nd	70.1	5.64 2.80 2.74	3.0 3.0

$$\begin{array}{r} 600 \\ 160 \\ \hline 440 \end{array}$$

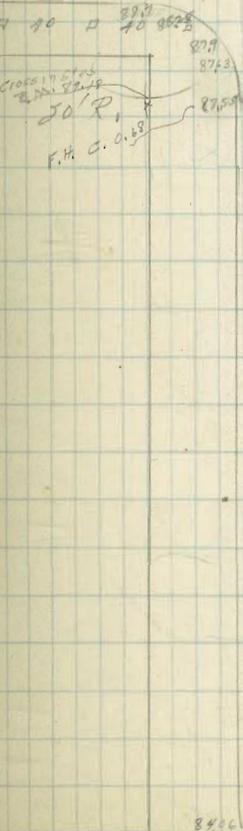
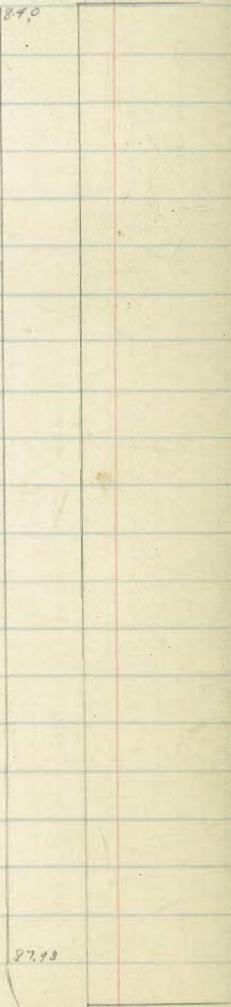
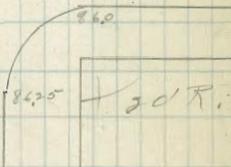
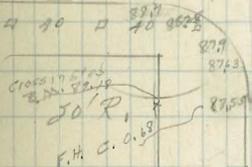
Franklin Ave Paving

28th St.



29th

31



30th St. Paved

30th St

82.0

82.12

20' R

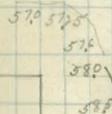
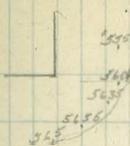
55.5

55.5

20' R.

31st St.

31st



27 30' R.

568

573

575

581 583

St.

589 588

571

578

600

20' R.

32nd St.

11/29/29
Flood
Pogrope
1929

Vidal & Villa Drive Paving Gr. With Co.

17. (21200) Vidal
1925 CV

S.C.

A.C.

	S.C.	A.C.	
0700 = N.W. 1/4 Line F. Lane/Vilas	91.6	91.4	9.6 16.2 -7.0 14.1 -3.9 10.6 16.2 -2.1 11.2 14.2 -3.3 11.2 16.2 -5.0 10.8 15.1 -4.3 7.8 11.2 -3.4 7.8
1 3-13335	91.16	90.96	
2	90.73	90.33	
3 1+30	90.3	89.8	
1+50	90.3	89.8	
1+70	90.5	90.2	
1 3-13335	2+03.64	91.2	
	P.C.		
2 2+35.25	92.4		
3 3+00	93.3	1	
		2	
		3	
1 2-21105		4	
		5	92.9
3 3+59.3 = R.C. Villa Dr.	94.4	6	8.1 11.6 -3.5 11.8 7.4 -4.0
		7	
		8	
		9	93.6

Yilla Dr. Paving Grades
 1' Chface
 .5 Cr.
 W.Cb. E.Cb.

96.42 96.35

Progressive Stationing

Progressive Stationing

Station	W.Cb.	E.Cb.	Station	W.Cb.	E.Cb.
0 -	RC. Villare	97.5	0 -	97.5	
0 + 37.15 =	RC. Villare	93.2	+ 19.44	96.7	4.7 7.3 2.5 7.3
1. 3-105		93.5	+ 26.44 = RC.	95.3	5.7 9.2
2.		93.7	+ 33.56	94.8	1.7 11.1 4.7
3. = E.V.C.		93.8	+ 40	94.6	6.4 11.8 5.4
1. 2-42.59		94.38	+ 40	94.4	6.6 10.7 2.7
2. = R.V.C.		94.35	+ 40	94.4	6.6 2.0 2.4
1.		94.3	+ 40	94.5	6.5 8.1 1.6
2. 3-105		94.35	+ 20	94.9	1.1 3.5 2.4
3. = E.V.C.		94.05	+ 35.94	95.9	2.9 3.7 4.8
15 = RC.		93.6	+ 30.32	96.4	
+ 135 = RC.		94.4	+ 31.17		
+ 32.7		95.45			
+ 32.7		96.5	+ 31.87 = RC.	98.3	
+ 30 = P.V.C.		97.1	+ 48.53	99.5	
+ 20		97.4	+ 16 = RC.	100.3	
+ 20		98.0			
+ 20		98.6			
+ 12.46 = RC. Chatsworth		98.8			

Sewer laterals, Vdal & Villa Dr.

# 1.	86.4	13.18 2.25 82.0
# 2.	82.0	17.54 11.0 71.0
# 3.	85.6	13.78 8.2 75.4
# 4.	83.4	15.08 3.6 79.8
# 5.	87.5	12.03 2.12 84.9
# 6.	85.2	14.88 9.05 75.7
# 8.	86.0	13.54 7.52 78.0
# 7.	88.5	11.08 1.58 86.9
# 9.	90.2	9.38 8.4 81.8

96.26
3.32
99.58

Cb. Inlet #1 Vdal St 10' Type A

W. 89.8
E. 89.8

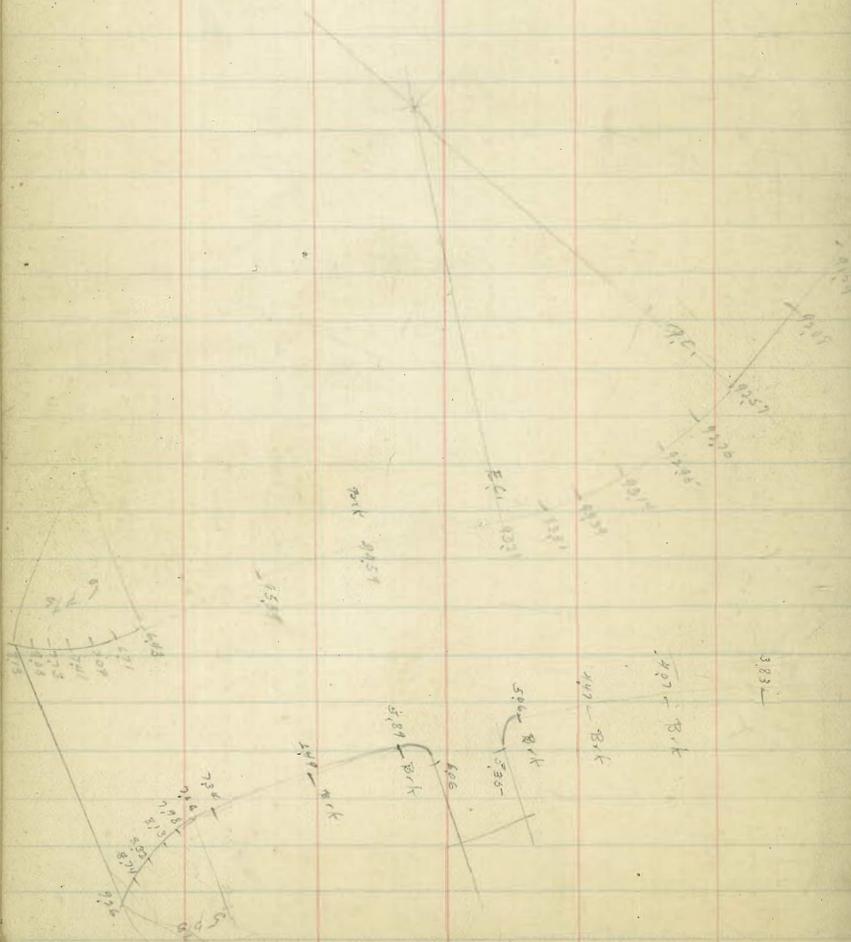
Exist. Culvert to be lowered

inlet at Ch inlet 84.0

outlet 81.0

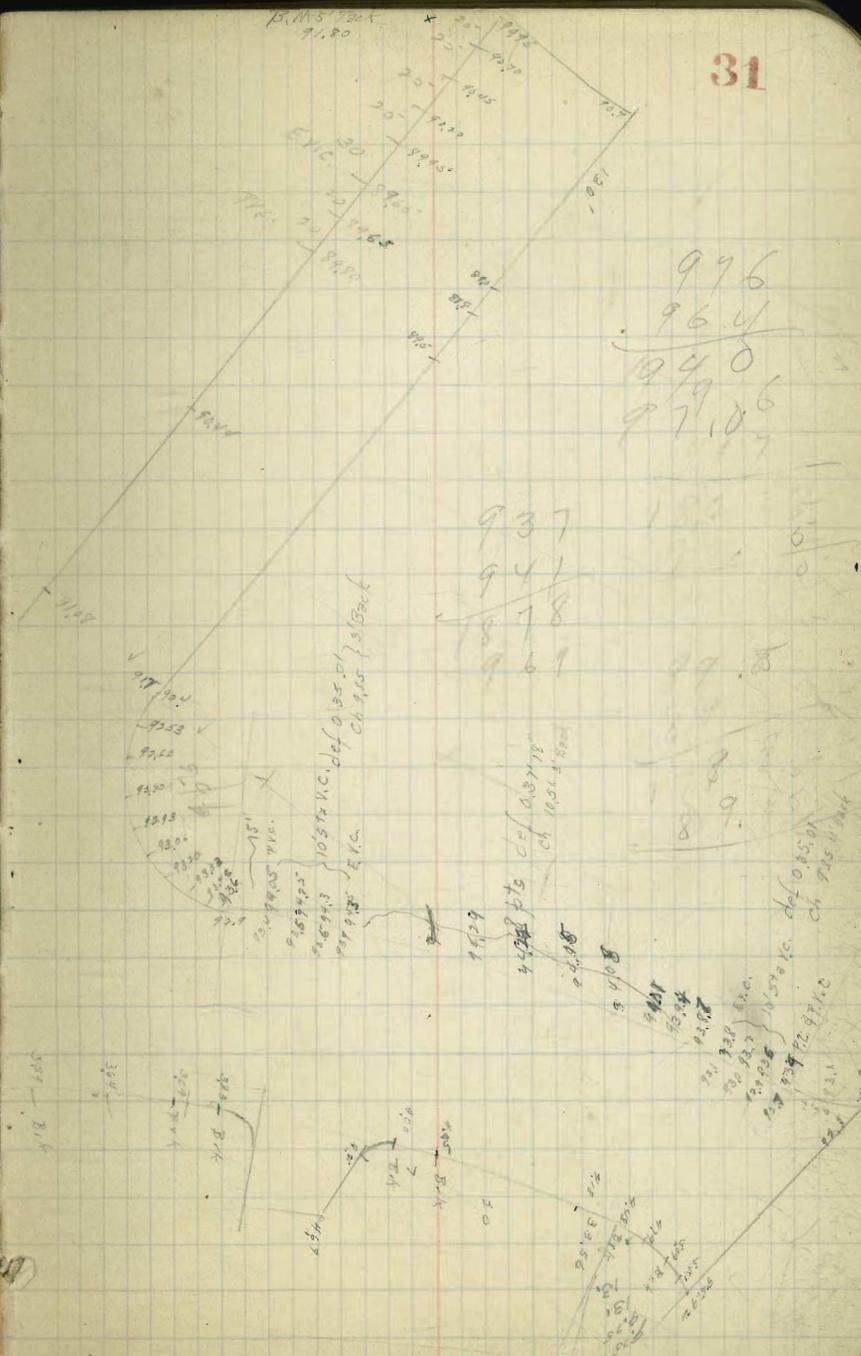
685
 612
 73
 5.40

96.02 96.85
 97.03 97.13
 97.24 97.99
 92.30



P.M.S. 250x
 91.80

31



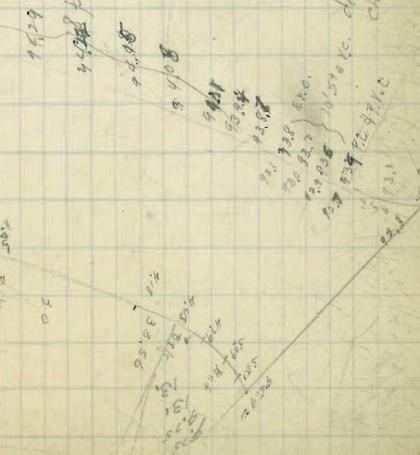
996
 964
 1940
 979.6
 971.0

937
 947
 1878
 961

183
 0.5
 0.8
 0.0

def 0.85 pl
 ch 105.8

def 0.37 pl
 ch 105.8



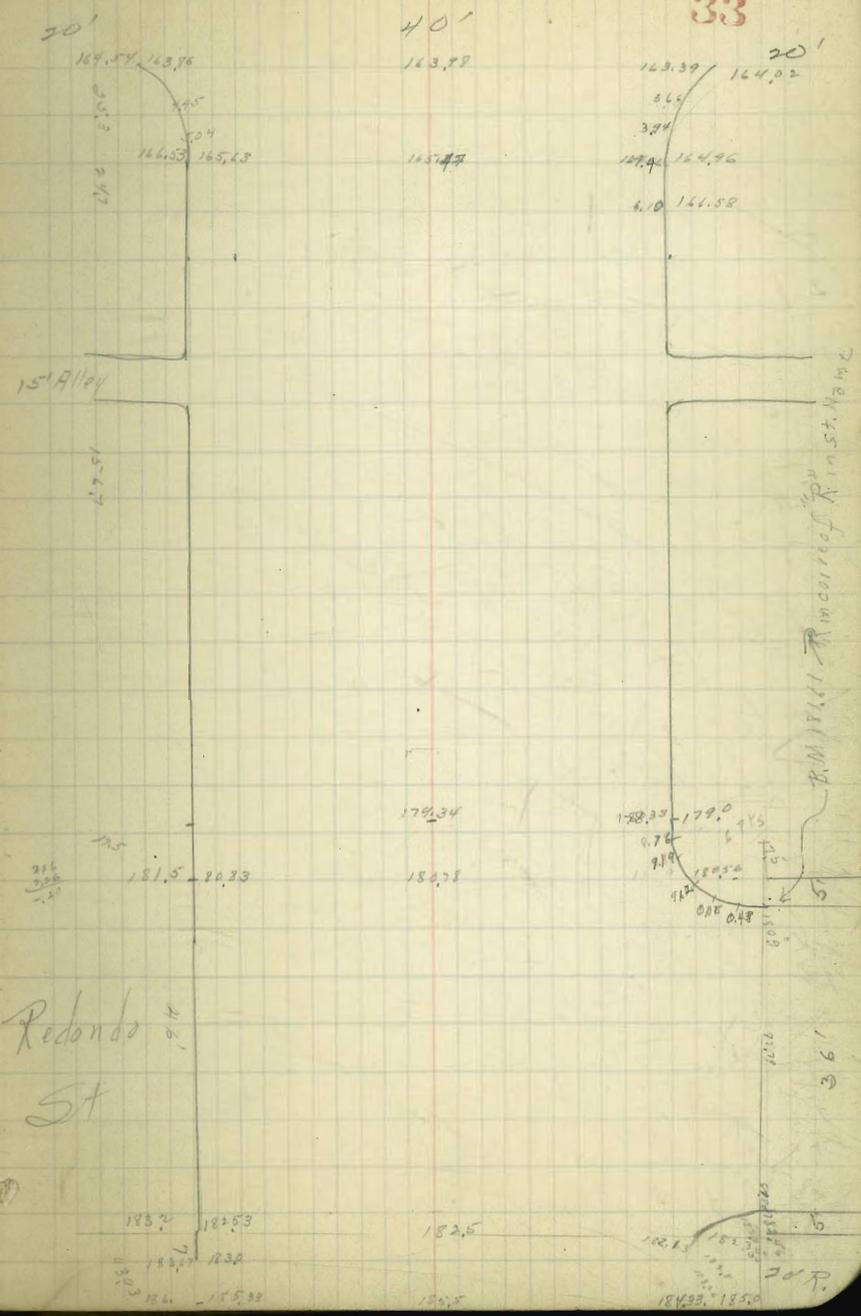
Venice

30'	317.21	14.31	14.0	14.86	215.24
30'	216.0	15.1	14.25	39.6	20' 10"
30'	215.1	14.2	13.87	2.5	13.1
30'	214.1	3.2	12.85	1.8	10'
30'	213.0	2.1	11.78	10.89	10.5
30'	211.95	11.05	10.74	10.7	10.5
30'				2.88	
57'	206.5	0.54	05.27	3.87	264.5
30'	205.1	0.42	03.72	2.6	3.0
30'	203.2	0.26	02.22	0.76	1.2
30'	201.1	0.02	01.47	2.8	1.3
30'	199.2	7.3	96.87	0.8	6.2
13'	184.2	3.3	82.12	1.8	92.2
10'	181.5	0.6	80.47	9.8	79.5
10'	179.5	7.4	77.57	2.32	6.4
10'	126.6	5.9	75.32	11.2	4.6
10'	114.7	8.1	73.52	2.4	2.8
60'	119.2	8.4	48.09	1.95	67.45
20'	107.7	6.72	46.47	5.2	65.7
20'	102			4.1	
20'	8.22			4.05	14.05
20'	115.88	5.22	14.84		

Ruilata

Catalina Blvd.

33



Redondo St

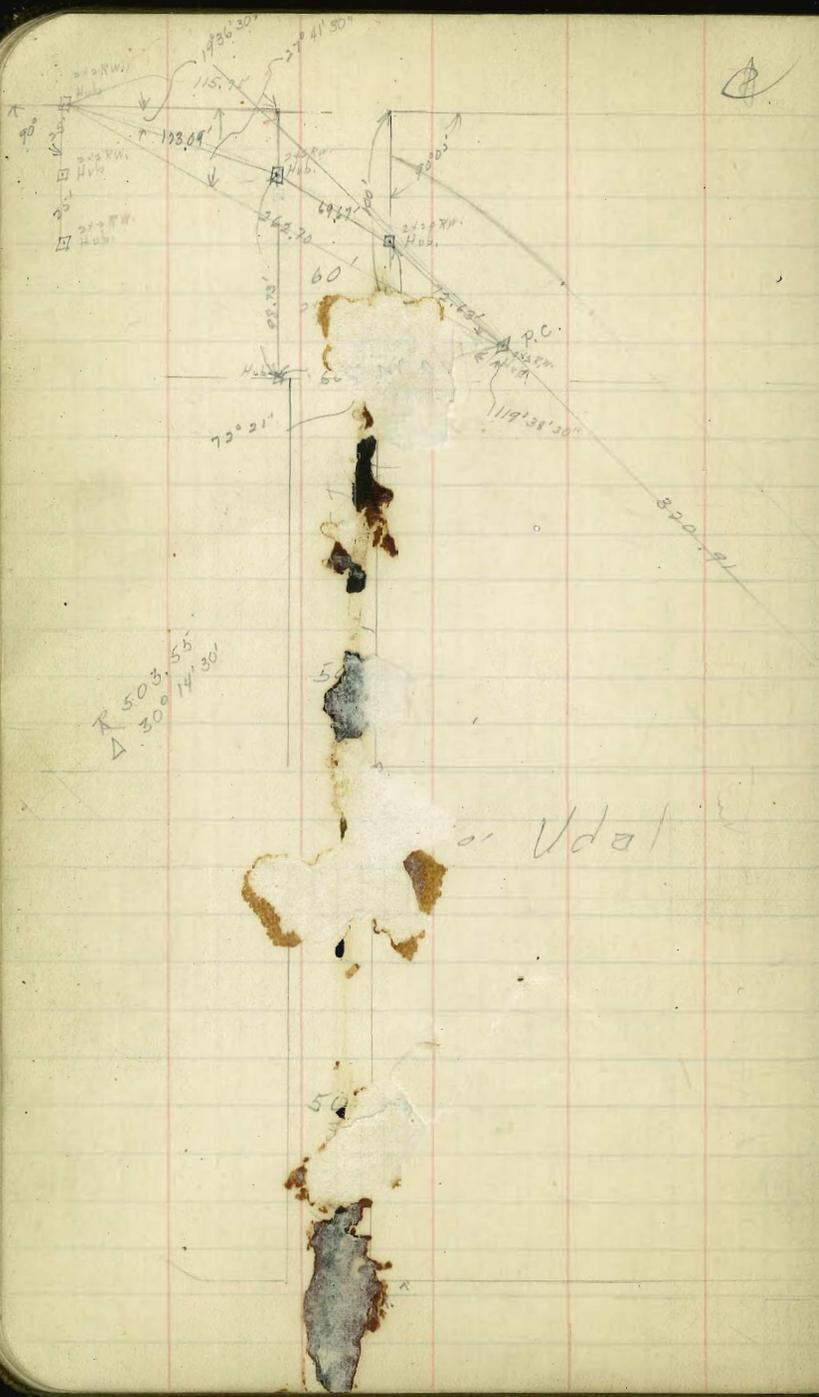
R.M. Hill 11th St. N. Ave

Sewer Laterals Santa Cruz
Catalina & Redondo.

# 1	169.1	19.46 8.04 <u>27.50</u> 11.86 5.85 <u>27.71</u> 5.46 2.22 <u>26.1</u>
# 2	171.7	
# 3	175.1	

Grades Redondo Intersection

	S.C.B.		N.C.B.	
W.L. Redondo	181.5	3.02 <u>28.6</u> 25.58		
E.L. "	183.7	6.8 3.5 <u>10.3</u> 6.3		
+ 7	183.7	1.0 <u>4.7</u> 3.7	183.8	7.2 3.8 <u>11.0</u> 3.7



Udal



Voltaire

def A P.C. To P.I. Wl. Worden & El. line of Wabaska $4^{\circ} 7' 30''$
 def A P.C. To P.I. El. Worden & Fly line of Wabaska $8^{\circ} 06' 50''$
 def N.H. Tennyson & El. line Wabaska To P.I. El. Worden & Fly line Wabaska from N. line Tennyson $19^{\circ} 36' 30''$
 def A from N.H. Tennyson at P.I. Tennyson of line Wabaska to P.C. Wabaska $27^{\circ} 41' 30''$

iron pipe ct.

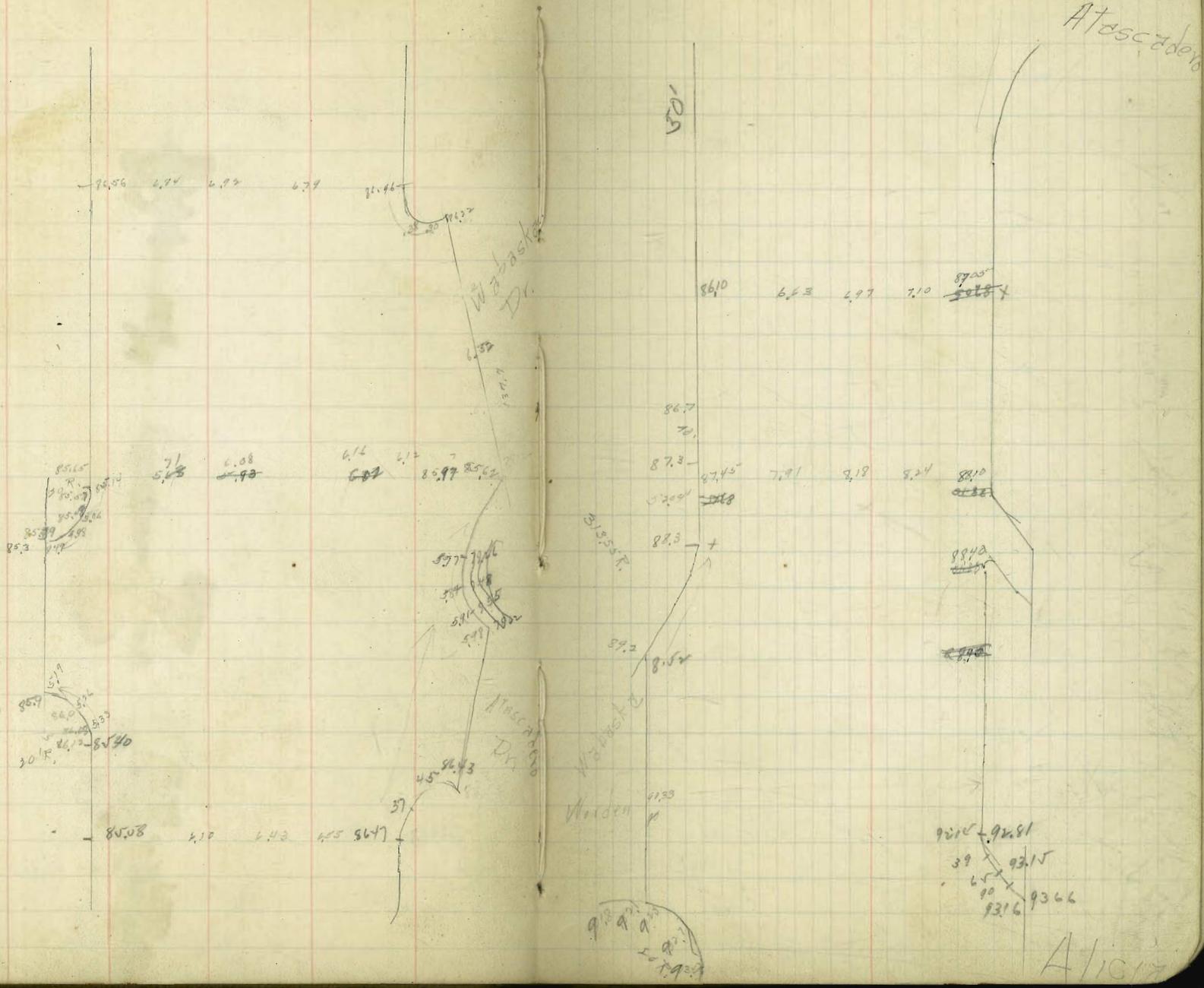
86.37
 + 636
 79.55
 326
 89.52
 9.02
 98.34

324

37

Atascadero

Warrington
ST



93.15
 93.16
 93.17
 93.18
 93.19
 93.20

Atascadero

Tennyson St Grades

Cb. in on N.

	S.		
0+00 = E.L. Wells	103.6	$\begin{array}{r} 3.6 \\ 4.3 \\ \hline 7.9 \end{array}$	
0+10 = P.C.	103.2	$\begin{array}{r} 4.0 \\ 1.2 \\ \hline 5.2 \end{array}$	
1	101.16	$\begin{array}{r} 2.0 \\ 1.3 \\ \hline 3.3 \end{array}$	
2 551	99.12	$\begin{array}{r} 8.1 \\ 2.3 \\ \hline 10.4 \end{array}$	
3	97.08	$\begin{array}{r} 10.1 \\ 11.0 \\ \hline 21.1 \end{array}$	
4	95.04	$\begin{array}{r} 2.6 \\ 3.6 \\ \hline 6.2 \end{array}$	
5 2+85 = P.C.	93.0	$\begin{array}{r} 4.9 \\ 5.1 \\ \hline 10.0 \end{array}$	
2+90 = W.L. Warden	92.8	$\begin{array}{r} 7.3 \\ 5.1 \\ \hline 12.4 \end{array}$	
3+50 = E.L. Warden	Prmtgrade 90.33	$\begin{array}{r} 7.3 \\ 5.1 \\ \hline 12.4 \end{array}$	
3+89.05	Prmtgrade 89.42		
4+28.10 = End cb.	Cbgrade 89.2	$\begin{array}{r} 8.5 \\ 2.8 \\ 4.7 \\ \hline 16.0 \end{array}$	
4+45.96 = P.C.	88.3	$\begin{array}{r} 7.8 \\ 7.8 \\ 10.4 \\ 7.4 \\ \hline 33.4 \end{array}$	
5+20 = Bk	87.3	$\begin{array}{r} 11.0 \\ 10.2 \\ \hline 21.2 \end{array}$	
5+60 = Bk	86.7	$\begin{array}{r} 7.8 \\ 11.3 \\ \hline 19.1 \end{array}$	
6+00 = Bk - Existing Cb.	86.3	$\begin{array}{r} 11.3 \\ 11.3 \\ \hline 22.6 \end{array}$	
6+35 = P.C.	86.12		
6+40 = W.L. Warrington	86.10		

560
465.96

55.04

107.07
13

107.20
11.00

96.20
1.10

97.66

107.07

05

107.12

11.56

95.56

1.87

96.63

9.95

86.70

4.44

91.14

Fire Hydrant Warden

97.66

82.20

17.66

88.93

7.33

86.60

87.97

8.78

6.43

2.35

Stub End

96.63

8.40

7.40

93.0

91.8

411.2

3

96.65 96.65

87.3 86.7

9.35 9.90

40

~~5.16~~

~~0.88~~

~~11.08~~

~~7.33~~

~~6.22~~

~~11.71~~

Sewer laterals Wabasca Tr. B.M. 96.65 Tennyson + Chateaufort

1.	72.5	10.52 1.83 78.47
2.	77.0	11.12 4.38 77.50
3.	77.0	11.64 3.22 77.92
4.	79.0	3.64 2.62 76.73
5.	80.3	3.22 2.15 77.93
6.	77.0	11.62 5.21 75.91

090
97.05
13.31
94.74
1.25
85.19
7.08
78.11
4.91
83.02

85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19
6.02	6.26	7.20	7.89	8.30	8.81	9.31	9.85	9.20	
79.12	78.93	77.99	77.30	76.89	76.38	76.81	76.94	76.99	
78.5	78.70	77.30	77.02	76.88	76.91	76.81	76.95	77.01	
32	33	09	18	11	-03	-03	-01	-02	

85.19
8.15
77.0
77.0

83.02
1.83
81.50
2.12
83.62
2.47
86.15
4.33
90.77
1.01
89.26

Hyd. Alameda Tr. W.

Water Line

Del Mar + Santa Barbara

	Prmt Grade	Water Grade	
W.L. Santa Barbara 6"	249.46	246.26	7.21 3.20 + 3.17
E.L. " " 6"	249.42	245.22	7.15 3.21 + 3.0
+ 50 " 6"	246.57	243.57	9.00 2.11 + 3.0
+ 00 " 6"	244.50	241.50	11.85 9.23 + 2.8
+ 50 Connector Main 6"	242.13	237.43	13.80 11.58 + 2.8
S.L. Del Mar 10"	249.52	245.72	7.65 3.83 + 3.12
W.L. Del Mar 10"	247.13	243.53	10.00 6.17 + 3.70

B.M. S.W.B.P. Del Mar + Santa Barbara 250.36

2.01
252.37
11.57
241.80
1.22
243.02
13.18
239.84
1.13
238.71
7.88
241.14
1.63
225.77
12.31
213.39
0.28
213.47
11.85
201.62
0.83
201.95
11.75
190.20
1.28
191.48
3.16
187.53
17.68

Took Hyd + Yancey
+ Del Mar

S.W. B.P. Catalina + Del Mar

Coronado Pymt Santa Barbara
To Catalina Griffiths
Santa Barbara

240.70
5.55
246.25
19.00
265.25
0.35
265.90
12.00
277.90
3.00
280.90
3.95
284.85
25.37
310.22
11.70
321.92
0.53
322.45
2.12
324.57
12.49
337.06
29.53
366.59
0.18
366.77
19.71
386.48
12.35
398.83
18.13
416.96
5.11
422.07
12.05
434.12
173.92
2.05
436.17
177.97
5.00
441.17
172.92
20
461.17
SW
Catalina
P.C.

339.3	237.10	237.10	239.13	239.8	
240					
385.1	234.40	4.9	4.83	236.5	
30	284.7	284.23	4.45	285.1	
20	224.7	234.03	4.35	4.13	234.8
15.0					
20	238.0	283	3.1	2.83	233.0
20	233.3	263	2.85	2.53	233.7
20	222.9	228	2.4	2.03	232.7
20	232.4	173	1.9	1.59	232.2
20	231.7	1.03	1.2	0.83	231.5
10					
238.6	227.93	7.7	6.93	227.6	

Venice



Venice

ST

3580	5.73	5.58			4.93	4.72	4.41
60					4.9	4.13	224.8
20	220.8	2.13	1.9		221.9	221.8	
20	221.1, 8	1.13	0.9		0.13	220.8	
20	220.4	1.73	2.55		8.83	219.5	
20	219.9	1.73	3.1		7.33	218.0	
20	217.3	6.68	6.45		5.75	216.4	
20							
20	145.96		5.01		4.3		
20	193.9	195.03	3.0		2.23	212.7	
20	191.7	191.95	0.88		0.08	190.7	
20	187.3	185.66	2.4		7.63	185.3	

167.42 SW

175.85	5.18	5.15	4.96	4.05	4.21	174.88	P.C.
	4.13	4.17	4.00	3.62	3.04		
	3.0	3.15	2.96	2.59	2.03		
173.02	72.35						
		3.73				7.38	72.01

Catalina Pvd.

1/23/30
Flood
Prairie
Gully

Paving Alley 200 C.H. Book Cont'r.

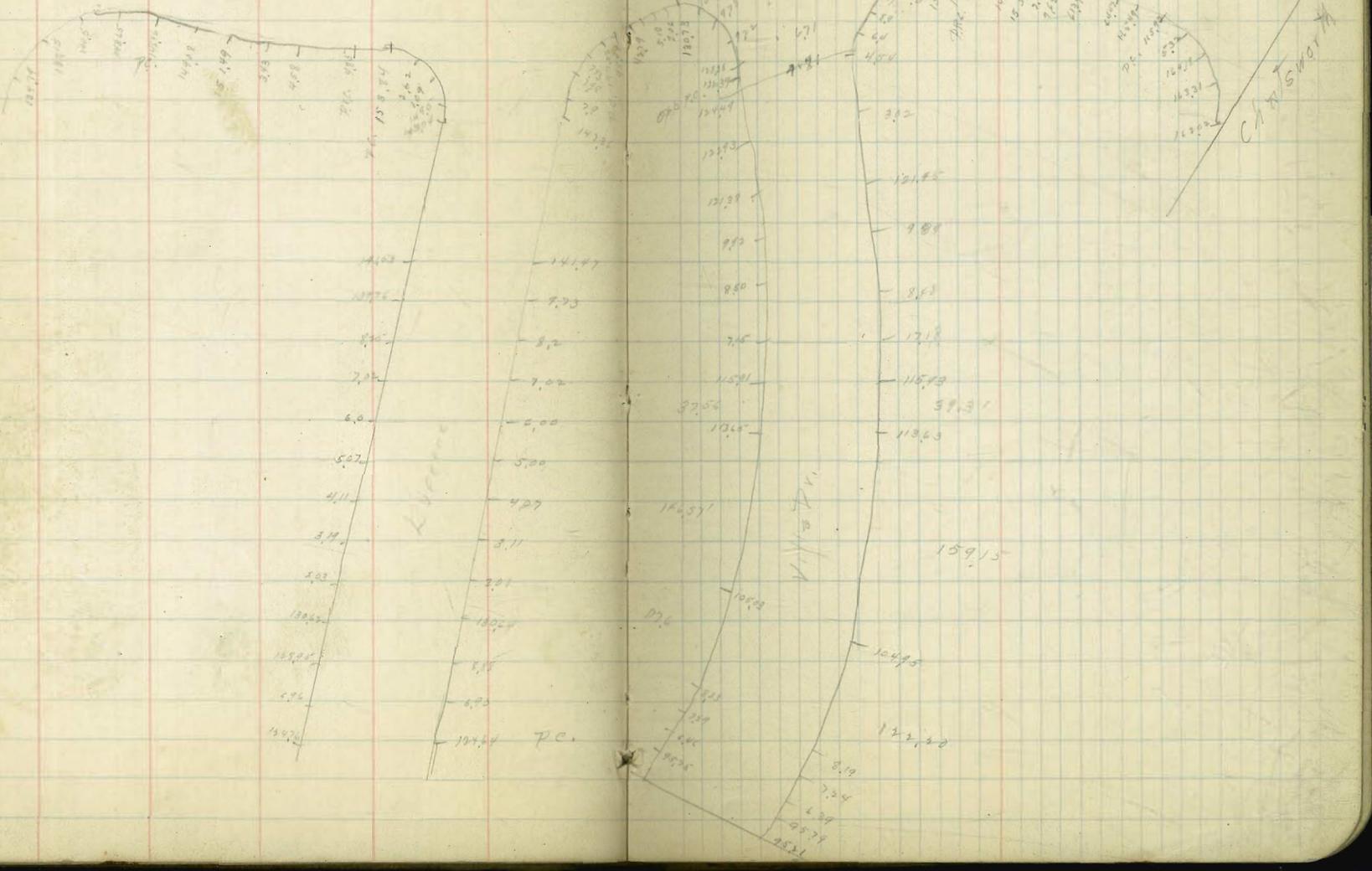
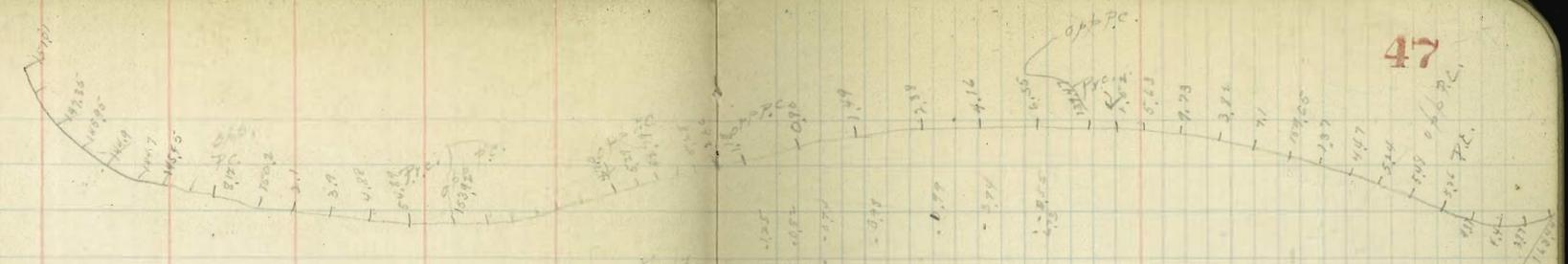
W.		E.	
0+00: N.L. Lincoln Ave		0-35% Edge existing front	341.95
		0+00	342.0
		0+10	342.3
0+00	341.71	0+20	342.8
0+15	343.3	0+30	343.5
+35	344.2	+40	344.4
+35	344.8	+50	345.0
+45 = 0+60	345.2	+60	345.4
1+00 = Bk	346.4		346.6
+40	347.2		347.4
+80	348.0		348.2
2+50 = Bk	348.8		349.0
+60	350.17		350.37
3+00	351.55		351.75
+40	352.92		353.12
+80 = P.M.C.	354.3		354.5
4+00	354.8		355.0
+20	355.1		355.25
+40	355.15		355.2
+65.87	354.79	2+59.88	354.95

N.W. B.P. Howard 4 33rd

366.64
0.63
367.28
12.10
355.18
4.18
359.31
10.55
348.76
3.52
352.28

Semi lat #1 349.8 9.51
3.66
+7.85

Pislermo Dr



Flood
Runner
Shaw
Kanagy

Dennis

48

Palermo Drive et al

Zola

P.M. Top. Heat.
143.2

10 R. 150.6 150.1

144.2

10 R. 143.0 142.5

50.77

137.5 87.2

20

135.9 88

30.78

134.5 88.15

25

132.9 89

20

131.1 90.6

20

130.1 94.6

20

10 R. 129.3 128.8

128.9

128.5

Yongee

128.7

10 R. 128.7

128.7

70.1

134.79

133.6

131.74

130.67

129.62

128.5

127.4

126.3

125.2

124.1

87.2

129.3 7.9

25 128.15 7.65

25 127.05 7.35

25 127.4 6.9

18.87 14.8 6.3

18.87 14.8 6.3

10 R. 126.1 5.6

125.7

Xenophon

123.6

123.6

123.6

123.6

123.6

123.6

10 R. 123.6 123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

123.6

Zenophon
56.70'

P.C. 115.18

10328'

111.96

110.06

107.75

105.04

100'

99.00

97.00

P.C. 94.00

92.00

89.04

802

866.75

830

800

770

740

Vulture Pond

Palmer Dr.

121.91
49.22
P.C. 115.61

105.01

103.00

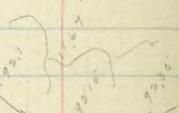
101.07

99.76

98.03

100

95.01



911.2
915
925
933
944
E.P.P.C. 911.0

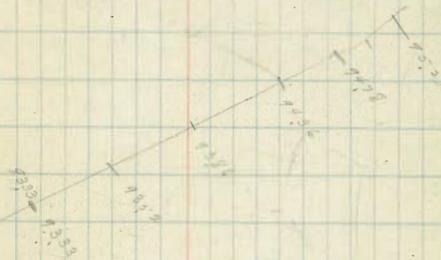
Vulture

P.C. 94.00
92.00
90.00
88.00
86.00

117.20
115.00
112.80

P.C. 112.00
110.00
108.00
106.00

111.13
109.00
107.00
105.00



Flood
Kearney
Shaw.

Tennison Sterne etc. ^{also} Griffith

	N.	S.	
0700 = W.L. Plum	194.2	194.2	3.8 3.8
+ 12.5	194.3	194.3	
+ 35 = P.C.	194.0	194.0	4.0 0.5 3.5
+ 40	193.5	193.4	4.5 0.2 3.8 5.3 1.8 3.5
+ 60	192.73	192.51	5.0 0.2 4.8
+ 70	191.74	191.42	6.3 0.7 5.6
1400	190.54	190.14	7.5 3.5 4.0
+ 20	189.13	188.68	8.2 0.5 7.7
1740	187.57	187.02	11.2 4.7 6.5
+ 60 = E.C.	185.67	185.17	12.3 1.3 11.0
1 57.55	180.14	179.58	10.6 5.6 5.0
2 27.75 = P.C.	174.5	174.0	14.1 6.2 7.9
3 400 = F.L. Plum	173.0	171.5	5.4 1.6 3.8
0700 = W.L. Plum	171.25	169.85	4.8 0.4 5.2
425 = P.C.	170.0	169.5	6.1 0.6 5.5
1 56.00	168.16	167.66	7.3 0.7 6.6
2 56.00	166.33	165.83	8.4 0.8 7.6
3 56.00	164.5	164.0	10.3 12.0 1.7
1 53.78 N.	163.1	162.5	12.1 13.0 0.9
2 300.4 N. 300.4 N. 301.5 S.	161.7	161.0	4.8 4.0 0.8 6.3 5.5 0.8
1 35.71	160.7		6.0 0.5 5.5
2 3 + 72.76	159.7		6.5 0.7 5.8

18.7
16.6
16.9

Sterne + Grades

52 40241
439.8
1.8

	N.	S.	
0700 = W.L. Plum	162.46	162.5	7.1 7.3 -0.2
+ 35 = P.C.	162.3	162.3	7.2 6.5 0.7
1 42.6 N.	162.1	162.0	7.4 6.2 1.2
2 45.7 S.	161.7	161.6	7.6 4.9 2.7
3 219.66 N.	161.8	161.3	7.7 6.5 1.2
4 220.04 S.	161.6	161.0	7.7 8.1 0.4
1 53.85 S. N. 53.85 S.	160.5	160.1	7.0 9.2 2.2
2 327.35	159.5	159.2	10.0 9.7 0.3
3 783.0 = P.C.	158.31	158.3	11.2 6.8 4.3
397.35	158.0		11.5 2.0 9.5
407.64 S. N.	157.77		11.7 2.9 8.8
404.6 = P.C.S.		157.53	11.6 12.9 -1.3
431.41 = E.C.		157.25	12.0 12.1 0.1
0700 = P.C.S.	162.3	162.3	6.0 5.3 0.7
1 56.55 S.	162.0	161.8	6.3 0.7 5.6
2 56.55 N.	161.8	161.4	6.5 0.4 6.1
3 195.04 S. 194.66 N.	161.6	161.0	6.7 0.6 6.1
1 53.84	160.2	160.1	8.1 0.2 7.9
2 302.05 N. 302.75 S.	159.5	159.10	8.8 0.3 8.5
1 35.5	158.7	158.6	9.1 0.2 8.9
2 372.35 S.	158.0	158.10	10.3 0.2 10.1
3 383. = P.C.N.	157.76		10.5 0.4 10.1
402.60 = P.C.S.		157.53	10.4 0.4 10.0
407.62 = E.C.N.	157.20		11.1 0.2 10.9
40.30 = E.C.S.		156.56	11.2 0.3 10.9

Sewer Laterals Jenny & Starne

#1	92.5		#26	155.0
#2	92.5	12.56 6.12 +4.34	#25	155.7
#4	93.5	4.56 4.13 +7.43	#27	158.1
#3	93.6	11.46 3.11 +6.35	#28	158.4
#67	94.5	10.52 0.52 +7.04	#29	160.8
#5	94.7	10.32 4.82 +3.50	#30	160.6
#7	95.8	7.73 3.83 +9.26	#31	164.2
#6	95.9	3.00 5.76 +8.14	#32	163.6
#8	96.9	8.14 4.92 +3.67	#33	169.4
#9	96.9	6.92 8.52 +4.72	#34	169.4
#10	98.1	4.96 3.04 +3.01	#35	173.5
#11	98.1	15.12 2.82 +5.24	#36	173.5
#12	101.2	11.27 2.57 +4.71	#37	177.7
#13	105.6	15.15 4.72 +6.07	#38	177.2
#14	113.6	10.33 3.77 +6.72	#39	182.5
#15	119.2	8.12 8.02 +10.30	#40	182.0
#16	129.3	20.12 8.72 +11.15	#41	186.0
#17	135.0	15.32 4.37 +9.61	#42	185.8
#18	139.8	10.62 3.32 +7.02	#43	188.8
#19	144.5	17.95 12.52 +7.57	#44	188.8
#20	147.4	12.05 10.92 +6.07	#45	111.7
#21	150.3	15.25 7.84 +6.34	#46	117.4
#22	151.3	14.05 2.43 +5.62	#47	121.8
#23	153.2	14.15 7.04 +7.01	#48	126.0
#24	153.2		#49	127.0

#50	131.4
#51	135.1
#52	138.6
#53	142.5
#54	146.2
#55	148.8
#56	150.8
#57	151.0
#58	153.2
#59	153.9
#60	154.2
#61	155.4
#62	156.0
#63	156.4
#64	156.8
#65	157.1
#66	157.2

10.34	131.4
1.25	135.1
1.12	138.6
1.12	142.5
1.12	146.2
1.12	148.8
1.12	150.8
1.12	151.0
1.12	153.2
1.12	153.9
1.12	154.2
1.12	155.4
1.12	156.0
1.12	156.4
1.12	156.8
1.12	157.1
1.12	157.2

5.11.7	164.75
96.0	164.75
3.11	164.75
108.56	164.75
4.13	164.75
102.82	164.75
12.26	164.75
116.87	164.75
0.26	164.75
116.41	164.75
12.52	164.75
127.43	164.75
0.27	164.75
129.36	164.75
18.06	164.75
142.42	164.75
2.82	164.75
137.20	164.75

4" Water Main Starne

0+00 = Plum	159.0
1+00 = RC	158.8
2+54.5	158.3
3	157.9
4	157.4
2+41 = Connect	157.0

10.0	159.0
5.0	158.8
10.76	158.3
3.2	157.9
11.7	157.4
11.0	157.0
12.16	157.0
12.16	157.0
12.16	157.0

1647.5	164.75
1687	164.75
1756.2	164.75
164.75	164.75
162.75	164.75
175.53	164.75

Fire Hyd SE. Thompson x Plum

171.00	171.65
3.93	171.65
171.65	171.65
171.65	171.65
171.65	171.65

Fire Hyd S.K. Coc Starne x Plum

112.65	112.65
3.84	112.65
112.65	112.65

8" Water Line Jennyson

0+00 = W.L. Willow	190.7	7.28 12.22 190.0	51 70 40 20
0+35	190.5	7.48 12.22 190.0 +3.1	
+60	189.0	8.98 5.22 13.76	
1+00	186.6	11.38 2.82 14.0	
+40	183.5	14.48 18.22 14.2	
1+60	181.7	16.28 12.22 14.2	
57.5	176.1	10.4 6.0 16.4	
2+75 = R.C. Plum	170.5	16.1 11.4 14.4	
3+00 = F.P. Plum	168.0	8.1 3.0 11.1	
+70 = W.P. Plum	166.3	2.8 6.2 9.0	
+95 = R.C. Plum	166.0	10.1 5.2 15.3	
	164.1	12.0 2.7 14.7	
56.1's	162.3	13.8 9.2 23.0	
57.63.4 = Connect	160.5	15.6 11.9 3.7	

For Grades on
Lowered Water Main on
Sterne from
Tennyson to Pueblo Line
See P 58.

Chatsworth Strip P 54

S.W. R. Willow Tennyson

193.90	95.00	96.50	98.00	99.50	101.00	102.50	104.00	105.50	107.00	108.50	110.00	111.50	113.00	114.50	116.00	117.50	119.00	120.50
4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28
197.98	196.00	194.00	192.00	190.00	188.00	186.00	184.00	182.00	180.00	178.00	176.00	174.00	172.00	170.00	168.00	166.00	164.00	162.00
12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61
185.19	183.00	181.00	179.00	177.00	175.00	173.00	171.00	169.00	167.00	165.00	163.00	161.00	159.00	157.00	155.00	153.00	151.00	149.00
12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61
173.34	171.00	169.00	167.00	165.00	163.00	161.00	159.00	157.00	155.00	153.00	151.00	149.00	147.00	145.00	143.00	141.00	139.00	137.00
11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05
162.68	160.00	158.00	156.00	154.00	152.00	150.00	148.00	146.00	144.00	142.00	140.00	138.00	136.00	134.00	132.00	130.00	128.00	126.00
11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05	11.05
151.63	149.00	147.00	145.00	143.00	141.00	139.00	137.00	135.00	133.00	131.00	129.00	127.00	125.00	123.00	121.00	119.00	117.00	115.00
12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86	12.86
142.24	140.00	138.00	136.00	134.00	132.00	130.00	128.00	126.00	124.00	122.00	120.00	118.00	116.00	114.00	112.00	110.00	108.00	106.00
0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
143.13	141.00	139.00	137.00	135.00	133.00	131.00	129.00	127.00	125.00	123.00	121.00	119.00	117.00	115.00	113.00	111.00	109.00	107.00

98.83	99.14	99.45	99.76	100.07	100.38	100.69	101.00	101.31	101.62	101.93	102.24	102.55	102.86	103.17	103.48	103.79	104.10	104.41	104.72	105.03	105.34	105.65	105.96	106.27	106.58	106.89	107.20	107.51	107.82	108.13	108.44	108.75	109.06	109.37	109.68	109.99	110.30	110.61	110.92	111.23	111.54	111.85	112.16	112.47	112.78	113.09	113.40	113.71	114.02	114.33	114.64	114.95	115.26	115.57	115.88	116.19	116.50	116.81	117.12	117.43	117.74	118.05	118.36	118.67	118.98	119.29	119.60	119.91	120.22	120.53	120.84	121.15	121.46	121.77	122.08	122.39	122.70	123.01	123.32	123.63	123.94	124.25	124.56	124.87	125.18	125.49	125.80	126.11	126.42	126.73	127.04	127.35	127.66	127.97	128.28	128.59	128.90	129.21	129.52	129.83	130.14	130.45	130.76	131.07	131.38	131.69	132.00	132.31	132.62	132.93	133.24	133.55	133.86	134.17	134.48	134.79	135.10	135.41	135.72	136.03	136.34	136.65	136.96	137.27	137.58	137.89	138.20	138.51	138.82	139.13	139.44	139.75	140.06	140.37	140.68	140.99	141.30	141.61	141.92	142.23	142.54	142.85	143.16	143.47	143.78	144.09	144.40	144.71	145.02	145.33	145.64	145.95	146.26	146.57	146.88	147.19	147.50	147.81	148.12	148.43	148.74	149.05	149.36	149.67	149.98	150.29	150.60	150.91	151.22	151.53	151.84	152.15	152.46	152.77	153.08	153.39	153.70	154.01	154.32	154.63	154.94	155.25	155.56	155.87	156.18	156.49	156.80	157.11	157.42	157.73	158.04	158.35	158.66	158.97	159.28	159.59	159.90	160.21	160.52	160.83	161.14	161.45	161.76	162.07	162.38	162.69	163.00	163.31	163.62	163.93	164.24	164.55	164.86	165.17	165.48	165.79	166.10	166.41	166.72	167.03	167.34	167.65	167.96	168.27	168.58	168.89	169.20	169.51	169.82	170.13	170.44	170.75	171.06	171.37	171.68	171.99	172.30	172.61	172.92	173.23	173.54	173.85	174.16	174.47	174.78	175.09	175.40	175.71	176.02	176.33	176.64	176.95	177.26	177.57	177.88	178.19	178.50	178.81	179.12	179.43	179.74	180.05	180.36	180.67	180.98	181.29	181.60	181.91	182.22	182.53	182.84	183.15	183.46	183.77	184.08	184.39	184.70	185.01	185.32	185.63	185.94	186.25	186.56	186.87	187.18	187.49	187.80	188.11	188.42	188.73	189.04	189.35	189.66	189.97	190.28	190.59	190.90	191.21	191.52	191.83	192.14	192.45	192.76	193.07	193.38	193.69	194.00	194.31	194.62	194.93	195.24	195.55	195.86	196.17	196.48	196.79	197.10	197.41	197.72	198.03	198.34	198.65	198.96	199.27	199.58	199.89	200.20	200.51	200.82	201.13	201.44	201.75	202.06	202.37	202.68	202.99	203.30	203.61	203.92	204.23	204.54	204.85	205.16	205.47	205.78	206.09	206.40	206.71	207.02	207.33	207.64	207.95	208.26	208.57	208.88	209.19	209.50	209.81	210.12	210.43	210.74	211.05	211.36	211.67	211.98	212.29	212.60	212.91	213.22	213.53	213.84	214.15	214.46	214.77	215.08	215.39	215.70	216.01	216.32	216.63	216.94	217.25	217.56	217.87	218.18	218.49	218.80	219.11	219.42	219.73	220.04	220.35	220.66	220.97	221.28	221.59	221.90	222.21	222.52	222.83	223.14	223.45	223.76	224.07	224.38	224.69	225.00	225.31	225.62	225.93	226.24	226.55	226.86	227.17	227.48	227.79	228.10	228.41	228.72	229.03	229.34	229.65	229.96	230.27	230.58	230.89	231.20	231.51	231.82	232.13	232.44	232.75	233.06	233.37	233.68	233.99	234.30	234.61	234.92	235.23	235.54	235.85	236.16	236.47	236.78	237.09	237.40	237.71	238.02	238.33	238.64	238.95	239.26	239.57	239.88	240.19	240.50	240.81	241.12	241.43	241.74	242.05	242.36	242.67	242.98	243.29	243.60	243.91	244.22	244.53	244.84	245.15	245.46	245.77	246.08	246.39	246.70	247.01	247.32	247.63	247.94	248.25	248.56	248.87	249.18	249.49	249.80	250.11	250.42	250.73	251.04	251.35	251.66	251.97	252.28	252.59	252.90	253.21	253.52	253.83	254.14	254.45	254.76	255.07	255.38	255.69	256.00	256.31	256.62	256.93	257.24	257.55	257.86	258.17	258.48	258.79	259.10	259.41	259.72	260.03	260.34	260.65	260.96	261.27	261.58	261.89	262.20	262.51	262.82	263.13	263.44	263.75	264.06	264.37	264.68	264.99	265.30	265.61	265.92	266.23	266.54	266.85	267.16	267.47	267.78	268.09	268.40	268.71	269.02	269.33	269.64	269.95	270.26	270.57	270.88	271.19	271.50	271.81	272.12	272.43	272.74	273.05	273.36	273.67	273.98	274.29	274.60	274.91	275.22	275.53	275.84	276.15	276.46	276.77	277.08	277.39	277.70	278.01	278.32	278.63	278.94	279.25	279.56	279.87	280.18	280.49	280.80	281.11	281.42	281.73	282.04	282.35	282.66	282.97	283.28	283.59	283.90	284.21	284.52	284.83	285.14	285.45	285.76	286.07	286.38	286.69	287.00	287.31	287.62	287.93	288.24	288.55	288.86	289.17	289.48	289.79	290.10	290.41	290.72	291.03	291.34	291.65	291.96	292.27	292.58	292.89	293.20	293.51	293.82	294.13	294.44	294.75	295.06	295.37	295.68	295.99	296.30	296.61	296.92	297.23	297.54	297.85	298.16	298.47	298.78	299.09	299.40	299.71	300.02	300.33	300.64	300.95	301.26	301.57	301.88	302.19	302.50	302.81
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Flood
Pearce
Kamler
4/26/50.

Court Way

G.S. 11

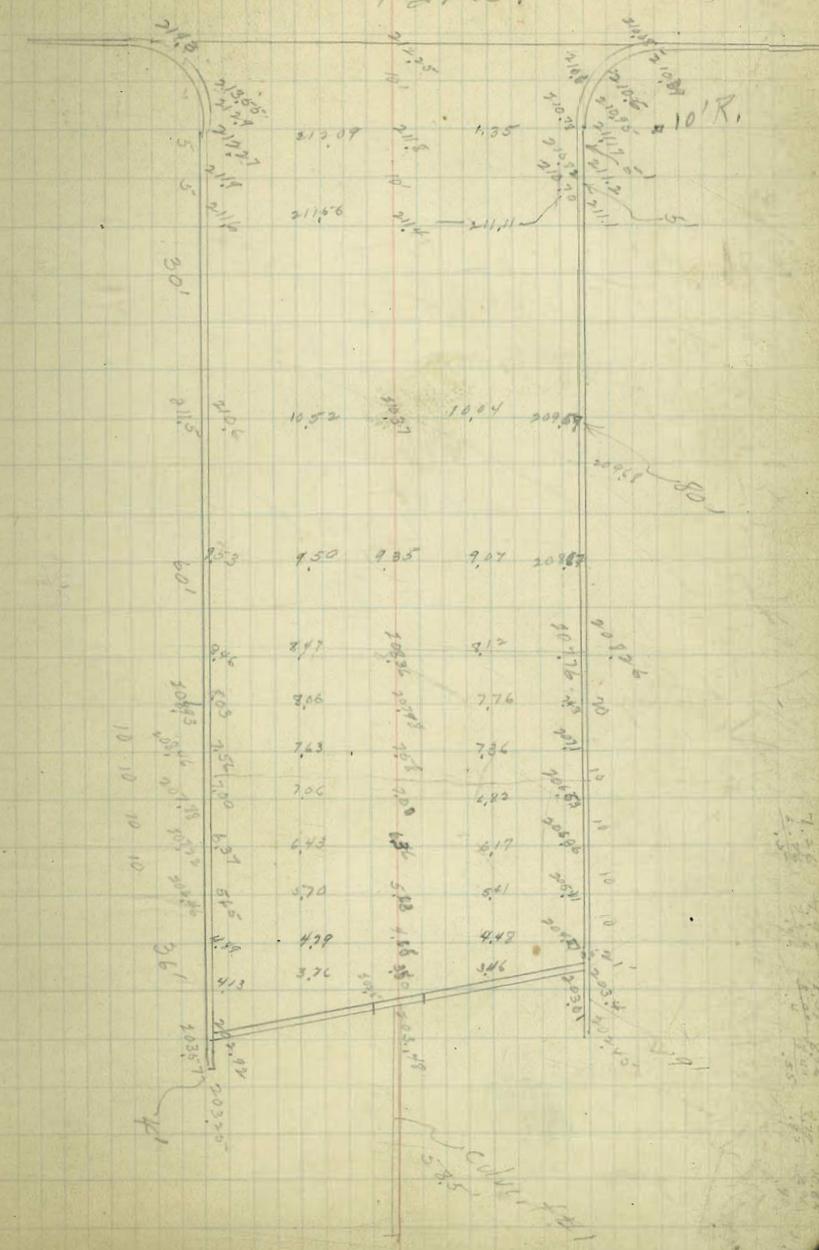
5' S. of Hawk St.		
Center Lat #1	205.7	959 561 398
Ch. Inlet #1	Top C.C. N. 208.5	732
	Top C.C. S. 203.4	730
Flow Line	201.5	926 700
Convent #1 inlet	201.5	
+ 2.5	199.0	130 11.2 186.2
+ 50 outlet	171.0	17.2 12.5 43.7

B.M. S.E. Hawk Court Way

214.47	214.47
0.80	0.90
215.27	215.41
4.94	8.05
210.33	207.36
0.45	5.79
210.78	213.14
12.15	
17.67	
0.55	
17.12	
11.20	
18.76	
0.27	
18.49	

214.47	
0.45	
214.92	
10.6	
8.53	
2.57	
170	
214	
75	
107.5	
8.75	
7.23	
1.47	
10.20	
0.38	
1.18	0.30
1.18	30
9.20	1.13

Hawk St.
Paved.



indexed c.s.k.

Grades for Water Line on Storne
from Tennyson to Pueblo Line

	Point Grade	Water Grade	
0+00 = Junction with Tennyson Line	108.5	105.6	8.1 -3.1
+ = S. Prop Line "	115.6	112.0	19.4 10.0 -4.2
+ = P.C. E. of Storne	124.8	121.8	3.4 -3.0
1.	130.3	127.0	9.6 6.2 -3.0
2. } 52.5	135.9	132.5	4.1 1.2 -3.9
3. }	141.4	138.0	19.5 1.5 -3.0
4 Bk	147.0	144.0	4.5 1.9 -2.2
+ 30 Bk	150.0	146.9	13.5 1.4 -2.7
+ 41 Bk	153.0	150.0	10.2 7.4 -2.9
+ 45 Bk	154.5	151.5	8.7 5.6 -3.1
+ 51 Bk	155.7	152.7	8.0 5.0 -3.0
+ 52 Bk L	155.7	152.7	7.5 3.9 -3.0
1	157.1	154.0	5.2 1.3 -3.0
2 } 59.5	158.5	155.5	7.0 4.3 -3.9
3	160.0	157.0	4.5 3.6 -3.7

152.7
107.0

176
68

49
1.6

217
5.5

38

102.40
11.30
113.70
5.72
113.58
10.82
124.40
0.57
123.81
12.75
136.56
8.42
136.14
12.42
148.56
0.54
148.02
12.17
120.19
2.68
159.51
4.95
164.49

Ind. G.S.K.

Curb stakes for SWAN of Masonic Cemetery

11/21/00
Landing

103.22 El. Pol Grade

Wend 99.60 4.62 99.10 F.O.S

BC ret 98.30 4.92 98.80 F.O.S

E.C. v 98.60 4.62 98.60 Grade

End at gate 98.30 4.92 98.30 "

End at gate 4.92 98.30 "

BC-ret 4.62 98.60 "

B.C. v 108.57 5.21 98.51 F.O.S

98.16

97.81

97.46

97.11

96.76

96.41

96.06

12.40 96.89 95.79 Grade

12.63 95.86 95.60 Grade

12.63 95.60 95.60

95.60

95.60

97-04

98.48

99.92

101.36

5.47 102.80 F.O.S

3.12 105.45 F.O.S

0.76 107.50

B.M. Trip & Southlook

97.91

5.31

103.22

4.37

96.83

11.76

108.59

3.27

2.91

3.6

97.91

110.49

14.86

95.63

110.49

14.41

96.08

95.63

1.45

110.49

13.45

97.04

110.49

8.28

102.21

6.04

5.47

107.58

102.80

4.78

2.39

102.80

2.39

105.19

110.49

5.30

2.72

10.72

13.45

13.45

2.35

7.98

5.63

2.35

3.28

2.7

110.49

11.57

98.92

110.49

7.70

102.79

2.73
12.13
14.86

2.73
11.68
14.41

59

4.98

42

56

13.07

67

12.40

13.30

67

126.3

102.8

95.6

57.2

1.45

105.15

102.80

2.35

7.98

5.63

2.35

3.28

2.7

110.49

11.57

98.92

110.49

7.70

102.79

7 @ 52.96

39.70

28.41

30

30

12 @ 42.5 @ 42.3

303.35

2+75 El. Grade

N 2.4 301.0 299.95 C1.0

S 4.5 298.9 299.45 F0.6

3+10

N 1.3 302.1 301.00 C1.1

S 3.5 299.9 300.50 F0.6

3+20

N 1.4 302.2 301.30 C0.9

S 3.2 300.2 300.65 F0.4

Grade stakes - Haller North of Redwood.

311.08

0-60

E 10.3 300.8 299.80 C1.0

0+00

E 8.5 302.6 301.30 C1.3

W 301.55

0+10

E 8.3 302.8 301.50 C1.3

W 8.7 302.4 301.80 C0.6

0+60

E 7.1 304.0 302.24 C1.8

W 7.8 303.3 302.57 C0.7

1+10

E 6.3 304.8 302.99 C1.8

W 6.7 304.4 303.34 C1.1

1+60

E 5.6 305.5 303.73 C1.8

W 5.9 305.2 304.11 C1.1

B.M. Vancouver
Huller

299.98
1.87
301.87
0.43
301.44
4.64
306.08

PC SW. 1/4
N 300.50
7.58

5/2 stakes
SW. 1/4

300.70
7.38
300.45
7.63
299.80
8.28

S
299.00
9.09

Prop Cor Grade
E 300.3 52. Cor
7.8

W NW. 1/4
N 301.20
7.08
301.45
0.42
301.80
6.28

250' Brk
350' N End
305.65
2.43
307.19
0.49

E P.C.
300.50
7.13
NE. 1/4
300.85
6.93
SW. 1/4
300.95
6.73
301.15
6.54
301.35
6.73
301.50
6.54
250' N End
305.22
2.46

W

E 302.24
5.44
302.98
5.10
303.73
4.35
304.48
3.60
305.22
2.86
2.26
20.50

W

B.M.
299.98
11.70
311.68

2+10

E	5.0	306.1	304.48	C 1.6
W	5.0	306.1	304.80	C 1.2

2+60

E	5.7	305.4	305.22	C 0.2
E	3.8	307.3	305.04	C 2.3
W	4.1	307.0	305.65	C 1.4

3+10

E	3.4	307.7	305.79	C 1.9
W	3.2	307.9	306.42	C 1.5

3+60

E	3.6	307.5	306.55	C 0.9 ✓
W	2.6	308.5	307.19	C 1.3 ✓

Grade Stakes - Redwood West of Vancouver

0+20	^{305.24}	El.	Grade		B.M.
N	3.3	301.9	300.7	C 1.2	299.98
S	4.0	301.2	300.2	C 1.0	$\frac{5.26}{305.24}$

0+40

N	3.4	301.8	300.83	C 1.0
S	4.2	301.0	300.35	C 0.6

0+60

N	3.5	301.7	300.9	C 0.8
S	4.3	300.9	300.4	C 0.5

0+80

N	3.7	301.5	300.8	C 0.7
S	4.4	300.8	300.3	C 0.5

	305.24	El	Grade	
1+06				
N	3.9	301.3	300.6	0.7
S	4.8	300.4	300.0	0.4
1+20				
N	4.2	301.0	300.25	0.7
S	5.0	300.2	299.65	0.6
1+40				
N	4.5	300.7	299.8	0.9
S	5.0	300.2	299.2	1.0
1+60				
N	5.0	300.2	299.25	1.0
S	5.8	299.4	298.65	0.8
1+80				
N	5.4	299.8	298.6	1.2
S	6.2	299.0	298.0	1.0
N	6.9	298.3	296.9	1.4
S	7.9	297.3	296.18	1.1
N	8.7	296.5	295.18	1.3
S	9.7	295.5	294.36	1.1
N	11.78	293.46	293.47	
S	12.70	292.54	292.54	

Q

306.41
Grade stakes 60's of Redwood

63

on Haller

0+10

E 6.1, 300.3 299.0 C1.3

W 6.5 299.9 299.0 C0.9

0+60

E 8.9 297.5 293.9 C3.6

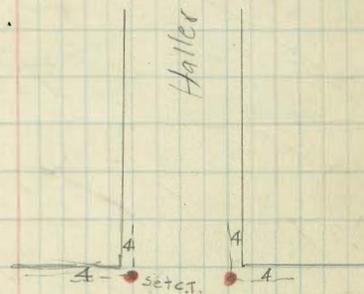
W 9.3 297.1 294.0 C3.1

B.M

299.98

6.43

306.41



Redwood

3526

Grade stakes 29th St.

	39.41	El.	Grade	
2+00				
E	1.45	37.96	38.0	
W	1.50	37.91	38.0	
2+40				
E	9.5	37.9	36.50	C1.4
W	1.9	37.6	36.50	C1.1
0+80				
E	3.7	35.7	35.00	C0.7
W	3.2	36.2	35.00	C1.2
1+20				
E	5.7	33.7	33.50	C0.2
W	5.6	33.8	33.50	C0.3
1+40				
E	6.9	32.5	32.60	F.O.1
W	5.8	33.6	32.60	C1.0
1+60				
E	7.5	31.9	31.57	C0.3
W	8.7	30.7	31.57	F0.9
1+80				
E	9.0	30.4	30.12	C0.3
W	8.9	30.5	30.12	C0.4
2+00				
E	10.4	29.0	28.57	C0.4
W	10.7	28.7	28.57	C0.2

Main to Colton. 12/27/30 67

Ind. c.s.k. 50
28
30

75
43
32
7
39

12.5
8.6
3.9

66'

46'

Main

B.M. B.P.S.W.
Main x 29th
38.00
1.41
39.41
13.00
26.41
1.94
28.35
8.07
20.28
2.06
22.34

Tie Points Replaced
2-26-31
Hub

17'

7' side

40'

80'

39'

Colton

B.M.	W	C
38.00	38.00	38.00
1.92	1.92	1.92
39.92	1.96	2.01
11134		
28.58		
0.64	33.50	33.50
29.22	6.42	6.42
1+37	32.74 7.18	32.74 7.18
1+40	32.70 7.22	32.70 7.22
1+60	31.80 8.12 -1.16	31.80 8.12 -1.16

	W	C
4.47	9.17	
2.01	0.63	
34.46	29.80	
1.76	4.90	
2.01		
3.47		
1.46		
4.93	9.2	
6.40	6.8	
	2.4	
3.274		
.67		
32.107		
1+63	31.35 8.57	31.35 8.57
1+80	30.12 9.80	30.12 9.80
28.57		28.57
11.35		11.35
4.92		4.90
20.00		20.00
9.22		9.22
		9.17

28.35
2+50 El. Grade

E 3.1 25.2 24.28 C0.9
W 26.4 24.28 C2.1

3+00
E 4.0 18.3 20.0 F1.7

W 5.9 22.4 20.0 C2.1
22.34
3+30

E 14.7 7.6 20.30 F 12.7 out 18.0
E 13.3 9.0 20.50 11.5 out 16.0
W 6.8 15.5 20.30 F 4.8 out 8.0

Water Main Stakes. 27th Main to Colton.

0+00 39.41
+40 2.8 36.6 33.07 C3.5
+80 4.3 35.1 31.64 C3.5
1+20 5.9 33.5 30.20 C3.3
+40 6.5 32.9 29.30 C3.6
+60 7.6 31.8 28.30 C3.5
+80 9.1 30.3 26.70 C3.6
2+00 10.7 28.7 25.30 C3.4
+50 11.8 24.1 20.65 C3.5
3+00 22.34 2.4 19.9 16.0 C3.9

Hydrant. 22.34
2.10 20.24 20.42 F0.18

Colvert.

N 14.0
S 6.5 15.8 8.0 7.8
S 15.4 6.9 6.0 C0.9

27.79
20.49
37.7d
2.57
20.19
2.57
22.76
25.33
2.57
21.90

22.36
2.90
19.44
20.00
F0.56

38.85
11.92
26.93
2.00
28.93

36.56
2.29

35.62
35.62
35.92
2.93

34.69
30
34.99
3.86

33.76
30
34.06
4.79

32.83
30
33.13
5.72

32.07
30
32.37
6.48

7.85 7.42 7.62

2.50 2.32 2.33
2.00 2.92 2.03

35.62
35.62
36.02
2.83

34.69
30
34.99
3.76

33.76
30
34.16
4.69

32.83
30
33.23
5.62

32.07
30
32.47
6.38

22 3d
2 56
19.78
20.42
F0.64

36.51
2.134

30.68
30
30.98
7.87

29.45
30
29.75
9.10

27.90
30
28.20
10.65

25.33
30
25.63
3.30

22.76
30
23.06
5.87
5.17

21.90
20.60
85. 7.30
6.80
5.00
4.25
7.50
1.65

68

20.60
20.60
8.35

20.50
20.50
20.50
20.50

20.40
20.40
20.40
20.40

20.30
20.30
20.30
20.30

20.20
20.20
20.20
20.20

20.10
20.10
20.10
20.10

20.00
20.00
20.00
20.00

Curb Cuts

38.00
0.72
38.72
11.86
26.86
0.80
27.68

W 37.14 36.56 35.62 34.69 33.76 32.83 32.07
1.58 2.16 3.10 4.03 4.96 5.89 6.65

E 37.12 36.51 35.62 34.69 33.76 32.83 32.07
1.60 2.21 3.10 4.03 4.96 5.89 6.65

W 143. 1420 2100 2533 2276 2019 1960
30.68 29.45 27.90 25.33 22.76 20.60
8.04 9.27 10.92 12.35 14.92 17.09

E 30.68 29.45 27.90 25.33 22.76 20.60
8.04 9.27 10.92 12.35 14.92 17.09

38.00 BM.
0.85
38.85

69

Ind.
C&K.

Waterline Grades
Santa Cruz Santa Barbara
to Ebers

S.C. Waterline

0+00 = Wt. Santa Barbara	2554	252.2	
0+10 = P.C.	2554	252.2	
+30 = Bk	2554	251.9	+3.7
+60 = Bk	2550	251.8	+3.6
1+00 Bk P.C.	2542	251.0	+3.6
20	2537	250.5	+3.2
40	2530	249.8	+3.1
60	2521	248.9	+3.1
80	2511	247.9	+2.9
2+00	249.8	246.6	+2.9
20 = E.V.C.	248.5	245.3	+2.7
1	245.3	242.0	+2.8
2	242.0	238.7	+2.8
3	238.7	235.4	+2.8
4	235.4	232.1	+3.0
5	232.1	228.8	+3.1
6	228.8	225.5	+3.3
7, 5+60	225.56	222.2	+3.6
5+50	221.4	218.1	+2.7
6+00 = Guizo+	217.2	213.9	+3.3
0+00 = +60 = Wt. Guizo	212.3	208.8	+3.5
0+50	208.1	204.8	+3.7
1+00	204.0	201.5	+3.9

BM - BR SW Santa Barb. + Santa Cruz

74

255.41				
+3.48				
258.89				
+12.80				
276.09				
+1.01				
277.10				
251.0	250.5	249.8	248.9	247.9
7.9	8.4	9.1	10.0	11.0
4.3	5.2	6.0	6.9	8.1
+3.6	+3.2	3.1	3.1	2.9
	E.V.C.			
246.6	245.3	245.0	238.7	235.4
12.3	13.6	2.1	8.4	11.7
2.4	10.9	2.3	5.6	8.9
2.0	2.7	-0.2	2.2	2.8
		+2.8		
	T=3556			
232.1	228.8	225.5	222.2	218.1
150	6.8	10.1	13.4	17.5
12.0	3.7	6.8	9.8	13.3
3.0	3.1	3.3	3.6	4.2
247.10	219.9	208.8	204.6	201.5
12.04				
235.06				
+0.50				
235.56				

B.M. S.W. Santa Barbara & Santa Cruz
 2557.41 ————— Check at Froude will be
 75 Cruz
 .2 ≠ High.

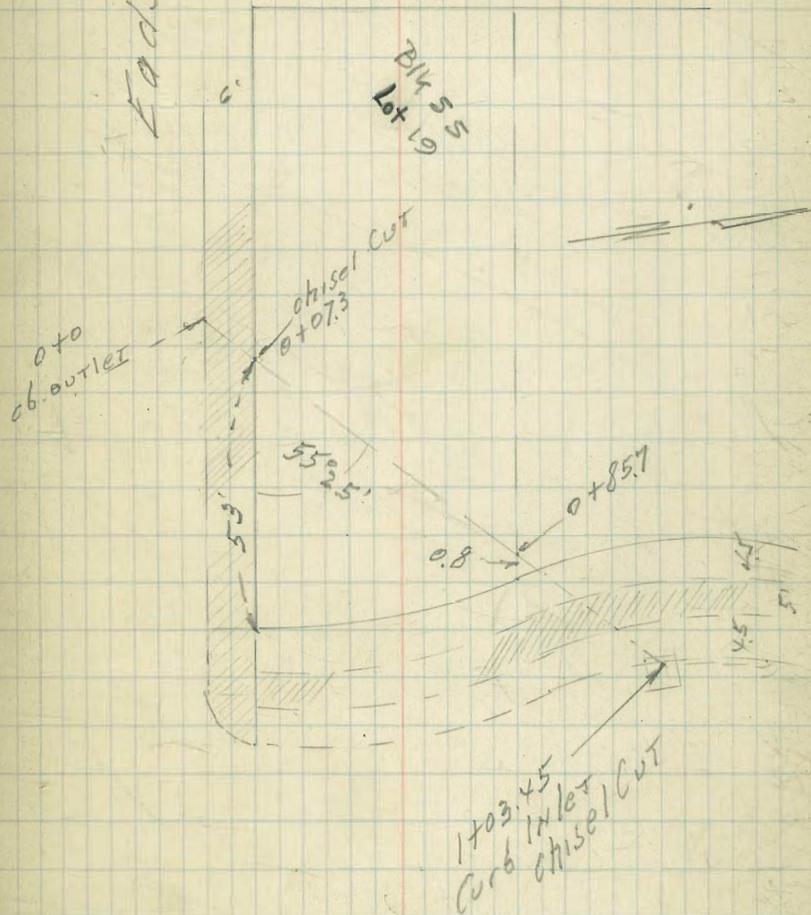
	S.C.B.	Waterline		
1	198.9	195.4	19.0 12 3.0 3.4 2.9 -1.5	
2	193.8	190.3	10.5 10.0 20.5	
3	188.7	183.2	1.9 3.0 -1.1	
4	183.6	180.1	4.9 7.6 -0.7	
5	178.6	175.1	12.0 12.5 -0.5	
6	4+00 = Brk	173.5	170.0 7.2 6.3 50.9	
1	167.5	164.0	13.3 11.8 22.3	
2	161.4	157.9	2.5 1.7 73.5	
3	155.4	151.9	15.8 17.1 5.0	12.17 11.80 4.17 ch.
4	# Froude	149.4	145.9 3.7 3.5	
	+ 60.0 + 100	147.3	143.8 3.8 4.7 5.1	
1	143.2	139.3	14.0 8.3 25.7	
2	139.2	135.5	18.1 12.1 22.0	
3	135.1	131.4	10.9 2.4 76.3	
4	7+60 = Brk	131.0	127.3 15.15 3.7 76.4	
1	126.4	122.7	9.1 3.0 76.1	
2	121.8	118.1	13.7 3.4 72.5	
3	117.2	113.5	19.3 12.0 76.3	
4	112.6	108.9	11.1 1.2 76.3	
5	4+20 = Brk	108.0	104.3 14.4 3.7 71.7	
1	104.7	101.2	5.9 2.1 43.8	
2	101.5	98.0	8.1 3.6 74.0	
3	98.3	94.8	12.38 9 2.76	1.78 1.8 -1.32
4	6+00 = Ebers	95.1	91.6	

Proposed Drain thru lot
NW. Cor. Prospect + Eads

SEBP	3.00	90.91	87.91	Eads Prospect
0+0	gut. cb. outlet	13.61		OUTLET
"	Top cb	12.61		
0+07.3	edge walk	11.84		
0+07.5	Top 8" cen. Ret. wall	9.55		
+09		10.0		
+30		8.3		
+61.4	} 2.5' CEM WALK	6.55		
+64.8		6.36		
+80.8	} " "	5.65		
+83.7		5.58		
+85.7	TOP Ret. wall	4.12		
+86		4.5		
+91.4	} 3' CEM. WALK	4.54		
+99.4		4.53		
1+03.45	TOP cb.	4.65		
"	gut.	5.11		INLET

INDEXED
EFB

Moore
2-19-40 76



Prospect ST.
con. Pav.

Filed 10/10/29
 Change in Grade Columbia St
 N. of Mission Hills Blvd

	W.C.B.	E.C.B.
P.Y.C. = S.L. Clarke + 1+80		
P.Y.C.	104.	105.
1+90	101.86 ✓	102.86 ✓
	100.72 ✓	101.32 ✓
2+10	98.8 ✓	99.8 ✓
+20	97.71 ✓	98.71 ✓
+30	96.94 ✓	97.94 ✓
+40	96.5 ✓	97.5 ✓
+50	96.36 ✓	97.36 ✓
+60	96.55 ✓	97.55 ✓
+70	97.06 ✓	98.06 ✓
+80	97.89 ✓	98.89 ✓
+90		
P.C. Reson M.H. Blvd	99.09	100.04 ✓

108
 104
 100
 320
 120
 1120
 800

Water Service for
Columbia St

0+00 = S.L. Mission W. E
 0+105.9.C. = 0+00 on Services
 0+1 105.2 0+11 108.2
 0+40 113.0 0+75 120.2
 0+91 121.4 1+24 124.8
 1+47 124.1 1+55 125.1
 2+76 127.2

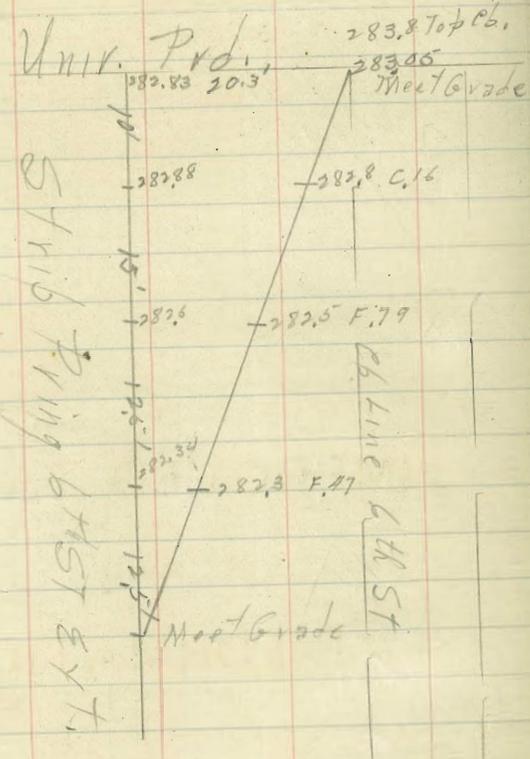
0+00 N.P.C. Mission
 0+89 99.73 0+12 98.36
 1+02 126.48 0+84 99.96
 2+14 129.42 1+35.5 108.79
 1+64 118.19

122.16 W.C.B. Pt. 9.8.49 78
 1+47

0+1	116.60	116.60	128.87	128.87
W	105.2	113.0	121.4	124.5
	11.40	3.60	7.47	4.87
	9.68	1.78	2.99	3.84
	+ 2.79	71.32	-5.2	4.53
E	116.60	128.87	138.37	128.37
	108.2	120.2	124.8	125.1
	8.40	8.17	3.57	3.27
	6.93	6.54	3.25	1.20
	+ 1.47	5.123	4.32	11.37
	104.76	135.45		135.45
W	99.73	126.48		139.22
	5.06	8.77		6.03
	104.76	111.39		4.74
E	98.36	104.76	114.02	125.26
	6.40	99.96	108.79	118.19
	6.20	4.80	5.23	7.07
	+ 1.20	4.01	5.57	7.41
		0.79	-1.34	-1.34

122.16
 6.71
 128.87
 124.5
 116.41
 0.19
 116.60
 10.32
 104.28
 0.48
 104.76
 6.32
 98.97
 6.32
 104.76
 2.21
 102.55
 11.47
 119.02
 1.11
 112.91
 12.35
 125.26
 1.15
 123.14
 11.81
 135.45

Flood 10/2/29 Wing Print 6th St Ext & Univ.



DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1% to 1. If ground is nearly level, the cut or fill on side stake is located by the double entry method in left column and top row. The number in body

from side stake to slope stake. If ground is not

IMPROVED TABLES

AND

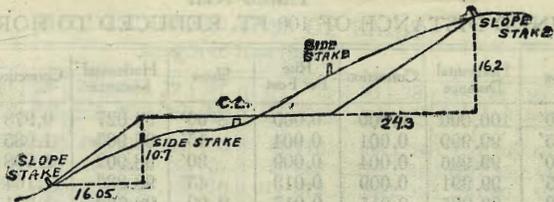
INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given L may be found by dividing tangent, (or external), opposite L by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

45-60
110 15"
1.023
20 20.80
30
4
40
60

1020
10122910 = 580
10077090
0104720 = 30
10002370 49

58 36 49
2129 78 25
114 - 39 - 12
7 19 36
2529721 - 59 588438
101188
75891
860

14.8
104 25
120 44.0
360
800
800
12735
17
12754
34
51008
38256
4.34

2951
59.43

25
30
500

