

1143

DIETZGEN
 TRADE MARK

ENGINEERS'
FIELD BOOK
No. 404

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.

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3 inches Beryl / 2 1/2" box
Stub & Alley + Allison 6.2.18

Solar 109 ... 70.06

Des L...

Sever Levels & Files
Between Feldspar And Emerald
From E. Serrell to E. File of West Allison

TP	2.30	77.74	75.44	8170 & Jarrel
12+87			3.0	74.7
13+00			1.8	75.9
+50			2.9	74.8
14+00			2.7	75.0
+50			3.2	74.5
15+00			4.0	73.7
+50			4.5	73.2
16+00			4.7	73.0
+50			5.0	72.7
17+00			5.4	72.3
+50			5.8	71.9
18+00			5.7	72.0
+60			5.3	72.4
+81			6.5	71.2
+85			5.7	72.0
19+00			5.6	72.1
TP	4.77	76.80	5.91	72.03
+50			4.4	72.4
20+00			4.3	72.5
+50			4.5	72.3
21+00			4.3	72.5
+50			4.7	72.1
22+00			4.9	71.9
+50			4.7	72.1

TP	0.15	73.52	3.43	73.37
23+00			4.9	71.9
+50			4.7	72.1
24+00			4.7	72.1
+50			4.7	72.1
25+00			4.3	72.5
+50			4.0	72.8
26+00			4.1	72.7
TP	0.15	73.52	3.43	73.37
+50			1.8	72.3
27+00			1.8	71.7
+50			3.5	70.0
28+00			5.5	68.0
+50			7.5	66.0
29+00			9.7	63.8
+50			11.9	61.6
30+00			12.6	60.9
+30			12.8	60.7
TP	0.09	41.20	12.41	41.11
+51			1.9	59.3
+53			1.8	59.9
31+00			2.1	59.1
+50			2.7	58.5
32+00			2.3	57.9
+50			4.0	57.2
33+00			4.3	56.9

61.20

33+50			4.4	56.8
34+00			4.7	56.5
+50			5.1	55.8
35+00			5.7	55.5
+50			6.0	55.2
36+00			6.3	54.9
+10	2. Fanuel		6.4	54.8
BM			1.00	60.13 ✓
+50			6.8	54.4
37+00			7.0	54.2
+50			7.3	53.9
38+00			7.5	53.7
TP	0.54	55.12 ✓	6.62	54.58 ✓
+50			7.0	53.1
39+00			7.3	52.8
+50			7.9	52.2
40+00			8.3	51.8
+50			9.0	51.1
41+00			9.8	50.3
+50			9.5	49.6
+68			5.7	49.4
+70			6.4	48.7
+90	2. Everts		5.8	49.3
42+00			6.3	48.8
+5			1.8	48.3

SET opt 44
Emerald 51
60.29

42+50			6.9	48.2
43+00			7.2	47.9
+50			7.2	47.9
44+00			7.9	47.2
+50			8.4	46.7
45+00			9.0	46.1
+50			9.5	45.6
46+00			10.3	44.8
TP	0.77	46.22 ✓	9.67	45.45 ✓
+50			2.0	44.2
47+00			2.7	43.5
+9.3			3.0	43.2
+50			4.2	42.0
470 R. Jones			3.9	42.3
+8.6			4.9	41.3
+9.3			4.1	42.1
48+00			4.4	41.8
+50			4.8	41.4
49+00			5.4	40.8
+50			6.3	39.9
50+00			6.2	39.4
+50			7.5	38.7
51+00			7.8	38.4
+50			8.2	38.0
52+00			8.9	37.3

		46.22		
52+50			9.4	36.8
53			10.1	36.1
+14			10.0	36.2
+17			11.4	34.8
+20			10.5	35.7
+28			10.6	35.6
+30			11.7	34.5
+50	2 Cass Top Rowing		10.85	35.37
TP	1.73	37.29	10.66	35.56
54+00			2.5	34.8
+50			3.0	34.3
55+00			3.6	33.7
+50			4.2	33.1
56+00			4.7	32.6
+50			5.5	31.8
57+00			6.3	31.0
+50			7.0	30.1
58+00			7.9	29.4
+50			8.3	29.0
59+00			8.7	28.6
+13			9.3	28.1
+16			10.9	26.9
+20			9.4	27.9
+30	2 Bayard		9.3	28.1
+50			9.7	27.6

		37.29			
60+00			10.8	26.5	
TP	0.25	27.94	10.10	27.19	
+50			1.1	25.8	
61+00			2.2	25.2	
+50			2.1	25.3	
62+00			3.5	23.9	
+50			3.5	23.9	
63+00			3.9	23.5	
+50			4.5	22.9	
64+00			5.3	22.1	
+50			5.5	21.9	
+75			5.7	21.7	
+80			6.5	20.9	
+93			6.8	20.6	
65+00			6.4	21.0	
+10	2 Allison		6.0	21.4	
+23	Top M Rail Edge PP		5.30	22.1	
+40			5.9	21.5	
+42			5.3	22.1	
+52	W. H. H. cap Tapped		5.40	22.04	
66+00	Top Rowing		5.43	22.01	
+50	" "		5.03	21.81	
67+00	" "		5.72	21.72	
+52	18 Eod "		5.84	21.60	
+117	2 H. S. Filly		6.28	20.66	
TP	5.65	21.00	12.09	15.35	3 PSE
			6.25	14.05	Goodly Allison

Sewer Levels & Alley
 Between Emerald and Diamond
 From S. Alley W. Allison to S. Haines

BM	6.95	21.03 ✓	14.08	SPSE Garner Allison
TP	10.78	31.19 ✓	0.12	20.41 ✓
TP	6.25	33.58 ✓	38.6	27.33 ✓
0+00 = Top Pavement			6.48	27.10
+50			6.13	27.45
+100			5.87	27.71
+50			5.53	28.05
+100			5.23	28.35
+09.7 End			5.13	28.45
+38.5 Top Rail Electric			5.11	28.47
+47			6.1	27.5
+50 S. Allison			3.8	29.8
+70			4.2	29.4
+80			5.1	28.2
3+00			5.2	28.4
+50			4.7	28.9
4+00			4.0	29.6
+50			3.5	30.1
5+00			2.9	30.7
+50			2.3	31.2
6+00			1.6	32.0
+50			1.3	32.3
7+00			0.9	32.7
TP	8.11	41.53 ✓	0.16	33.42 ✓ on Top of 7+00
+50			8.3	33.2

41.53

8+00			7.8	33.7
+30.2 Bayard			7.3	34.2
+40			7.6	33.9
+45			8.6	32.9
+50			7.0	34.5
9+00			6.9	34.6
+50			6.4	35.1
10+00			6.0	35.5
+50			5.1	36.4
11+00			5.0	36.5
+16			4.5	37.0
+44			3.2	38.3
+78			3.8	37.7
12+00			3.6	37.9
+50			2.9	38.8
13+00			2.2	39.3
+50			1.5	40.0
+89			0.7	40.8
+90			1.7	39.8
14+00			0.6	40.9
+10 Top Pavement & Cass			0.5	41.0
+80			0.6	40.9
TP	9.21	50.24 ✓	0.60	40.73 ✓
+30			10.3	39.9
+37			9.6	40.6

11.71
 5.25
 5.93
 11.71

50.74

14+40	10.1	39.6
+44	10.2	39.5
+45	9.0	41.2
15+00	8.5	41.7
+50	8.2	42.0
16+00	7.4	42.8
+50	6.4	43.8
17+00	5.6	44.6
+50	4.9	45.3
18+00	4.3	45.9
+50	3.3	46.9
19+00	2.7	47.5
+50	2.3	47.9
+71	2.1	48.1
+75	2.5	47.7
+76	2.0	48.2
+90. 2 Dams	1.9	48.3
20+00	1.7	48.5
+8	2.1	48.1
+10	1.6	48.6
+50	1.2	49.0
+80	1.5	48.7
21+00	2.1	48.1
+50	2.0	48.2
22+00	0.4	49.8

50.74

7P	13.03	63.03 ✓	0.84	50.00 ✓
27+50			1.09	52.1
28+00			8.9	54.1
+50			8.4	54.6
29+00			7.5	55.5
+50			6.4	56.6
29+00			6.0	57.0
+20			5.1	57.9
+30			5.4	57.6
+49			5.3	57.7
+51			6.0	57.0
+70 E. Everts			4.9	58.1
+50			5.2	57.8
26+00			5.0	58.0
+50			5.1	57.9
+66			5.1	57.9
+68			6.0	57.0
+82			4.8	58.2
27+00			5.1	57.9
+50			4.7	58.3
28+00			4.4	58.6
+50			3.8	59.2
29+00			3.0	60.0
+50			2.3	60.7
30+00			1.8	61.2

	63.03		
30+50		15	61.5
31+00		08	62.2
TP	6.50	69.04 ✓	62.54 ✓
+28		64	62.6
+30		68	62.2
+50	L. Farnel	58	63.2
+66		65	62.5
+68		61	62.9
32+00		61	62.9
+50		60	63.0
33+00		59	63.1
+50		57	63.3
34+00		53	63.7
+50		48	64.2
35+00		48	64.2
+50		46	64.4
36+00		41	64.9
+50		36	65.4
37+00		31	65.9
+6		31	65.9
+8		32	65.2
+30	L. Gresham	23	66.7
+54		31	65.9
+56		25	66.5
38+00		18	67.2

	69.04		
38+50		05	68.54
TP	763	78.57 ✓	69.21 ✓
39+00		25	69.1
+50		88	69.8
40+00		72	71.4
+50		58	72.8
41+00		50	73.6
+50		46	74.0
42+00		43	74.3
+50		41	74.5
43+00		38	74.8
+10 L. Haines		38	74.8
TP	6.91	88.13 ✓	73.5
44		7.27	74.22 ✓
45		7.27	80.86 ✓

No. 12, 1911
West. H. Haines
Diamond

Sewer Levels 2 Alley
 Between Diamond and Missouri
 From 6th & 5 Alley of Allison to 25th & W. line Jewell

TP	11.44	38.77 ✓	27.33
0+0	- 2.14.5 Alley of Allison	4.47	34.30
	= 36+93.3		
+50		4.5	34.3
+100		3.8	35.0
+150		4.3	34.5
+200		4.1	34.7
+250		3.7	35.1
+300		3.3	35.5
+350		3.0	35.8
+400		2.5	36.3
+450		4.0	34.8
+500		3.22	35.55
+550		4.5	34.3
+600		2.5	36.3
+650		2.3	36.5
+700		1.5	37.3
TP	518	43.15 ✓	37.97 ✓
+750		5.7	37.5
+800		5.5	37.7
+850		5.0	38.2
+900		4.5	38.7
+950		4.3	38.9
+1000		4.0	39.2
+1050		3.5	39.7
+1100		3.2	40.0

2 Alley, between
 Emerald & Diamond

on stub

43.15

9+00		3.0	40.2
TP	9.51	50.13 ✓	40.92 ✓
+550	Boxard	9.5	40.9
+600		9.3	41.1
+650		10.2	40.2
+700		9.2	41.2
+750		8.9	41.5
+800		8.3	42.1
+850		7.7	42.7
+900		6.9	43.5
+950		6.4	44.0
+1000		6.0	44.4
+1050		5.2	45.2
+1100		4.5	45.9
+1150		4.1	46.3
+1200		3.8	46.6
+1250		2.9	47.7
+1300		3.4	47.0
+1350		3.0	47.4
+1400		2.6	47.8
+1450		2.7	46.7
+1500		2.3	48.1
+1550	2.3.5 2. Cass	2.21	48.23
+1600		2.3	48.1
+1650		2.1	47.3

		50.43	
15+63		1.6	48.8
+68		3.2	47.2
+72		3.5	46.9
+75		2.0	48.4
16+00		1.5	48.9
+50		0.9	49.5
TP	9.44	59.09 ✓	49.65 ✓
17+00		8.8	50.3
+50		8.3	50.8
18+00		7.5	51.6
+50		6.7	52.4
19+00		5.8	53.3
+50		5.0	54.1
20+00		4.4	54.7
+50		3.8	55.3
+90		3.2	55.8
+95		3.8	55.3
21+00		3.3	55.8
+15	2 James	3.3	55.8
+30		3.1	56.0
+35		2.3	56.8
+50		2.3	56.8
22+00		1.5	57.6
+50		0.7	58.4
TP	10.55	68.83 ✓	58.28 ✓

		68.83	
23+00		9.9	58.9
+50		9.3	59.5
24+00		8.0	60.8
+50		6.9	61.9
25+00		6.7	62.6
+40		5.0	63.8
+65		5.4	63.4
7/1		5.9	62.9
26+00		4.4	64.4
+33		4.5	64.3
+50		4.1	64.7
1958 Events		4.0	64.8
27+00		4.0	64.7
+50		3.6	65.2
+70		4.6	64.2
28+00		3.5	65.3
+50		3.0	65.8
29+00		2.5	66.3
+50		1.4	67.4
30+00		0.9	68.0
TP	8.45	77.04 ✓	68.59 ✓
+50		8.5	68.5
31+00		7.9	69.1
+50		7.2	69.8
32+00		6.4	70.4

Sewer Levels to Alley
Between Chalcedony and East
From E. Alley, Filson to Ingraham

- Brk Ford from 1139 Page 97

TP	10.77	98.87	3 82.10	On Top Sta 28+00
28+50			11.2	82.7
29+00			11.1	82.8
+50			10.6	83.3
+60			10.2	83.7
30+00			9.5	84.4
+50			8.2	85.7
31+00			7.2	86.7
+50			5.8	88.1
32+00			4.8	89.1
+50			3.9	90.0
33+00			3.5	90.4
+34			3.8	90.1
+50	E. Faruel		3.3	90.6
34+00			2.6	91.3
+50			2.2	91.7
35+00			1.7	92.2
+50			1.5	92.4
36+00			1.1	92.8
+50			0.9	93.0
37+00			0.8	93.1
TP	7.13	102.87	3 0.13	93.94
+50				93.2
38+00				93.7
+50				94.1

on top
Sta 37+0

12-25

10.87	39+00	5.8	95.1
	+30	5.4	95.5
	+50	5.5	95.4
	+55	5.1	95.8
	40+00	5.3	95.6
	+50	5.2	95.7
	41+00	5.0	95.9
	+50	4.7	96.2
	42+00	4.5	96.4
	+50	4.0	96.9
	43+00	3.8	97.1
	+50	3.6	97.3
	44+00	3.4	97.3
	+50	3.2	98.2
	+90	2.8	98.1
	45+00	2.3	98.6
	+10.8 Hours	2.3	98.6
	+50	2.5	98.4
	+7.5	3.0	97.9
	46+00	2.5	98.4
	TP	11.89	112.00
	+50	17.6	99
	47+00	13.0	98.0
	+50	13.1	97.9
	48+00	13.0	98.0
		12.6	98.4

Survey Levels of Alley
 between Low and Beryl
 From E. Alley in Allison to E. Ingraham

11x00

48+50	11.9	99.1	
49+00	10.9	100.1	
+50	10.1	100.9	
50+00	8.9	102.1	
+36	7.5	103.5	
+50	6.1	104.9	
+90 E. Ingraham	4.4	106.6	
B.M.	30.4	108.2	7 Nails in Post E. Ingraham on St. Alley
B.M.	120.8	92.9	6 Nails in Low Cap in 1870s on Wood Charleston Hill

TP	4.46	47.39	42.93	on top of 910
0+0	4.47+18.1	14.91	32.48	on St. Alley
+50		13.3	34.1	
+100		10.3	37.1	
+150		8.1	39.3	
+200		5.4	42.0	
+250		3.2	44.1	
+300		1.0	46.4	
TP	12.83	59.67	47.39	on top of 910
+50		10.3	49.3	
+100		6.5	53.1	
+150		5.5	54.1	
+183		4.3	55.3	
+195		3.0	56.6	
+190.5 Top of Rail / Elev. RR		1.99	57.63	
+5+00 E. Allison		3.1	56.5	
+7		3.9	55.7	
+14		4.3	55.3	
+17		3.6	56.0	
+50		2.3	56.3	
6+00		2.7	56.9	
+50		1.5	58.1	
7+00		0.7	58.9	
TP	25.6	67.86	59.30	on top of 910
+50		7.8	60.0	

6786		
8+00		71 60.8
+50		61 61.8
+90		5.3 62.6
9+00		4.3 63.6
+10		4.3 63.6
+40		5.1 62.5
10+00		5.7 62.2
+55		5.7 62.2
+57		6.3 61.6
+80	L. Bayard	5.2 62.7
11+00		5.9 62.0
+05		6.3 61.6
+08		5.5 62.4
+50		5.1 62.8
12+00		4.6 63.3
+50		4.1 63.8
13+00		3.6 64.3
+50		2.9 65.0
14+00		2.3 65.6
TP	10.47	76.78 ✓ 15.5 66.31 ✓
+50		10.9 65.9
15+00		10.8 66.0
+50		9.6 67.2
16+00		7.9 68.9
+35		7.5 69.3

10+31.0 West
edge of 9 x 25 sheet
B. Miller

on Top
54.14+0

7678		
11+00		2.0 69.8
+45		2.8 69.0
+60	Cross the Ravine	6.80 70.0
+80		7.3 69.5
+85		6.1 70.7
+94		7.6 69.2
17+00		7.1 69.7
+50		7.0 69.8
18+00		6.3 70.5
+50		3.9 72.9
19+00		2.1 74.7
+50		0.8 76.0
20+00		0.5 76.3
TP	7.83	83.87 ✓ 0.74 76.04 ✓
+50		7.4 76.5
+80		7.8 76.1
+85		7.0 76.9
21+00		6.6 77.3
+50		5.4 78.5
22+00		4.1 79.8
+15		3.7 80.2
+20		4.3 79.6
+40	D. M. 05	3.7 80.2
+54		3.9 80.0
+57		3.2 80.7

		8387		
23+00			27	81.2
+50			0.5	83.4
TP	13.02	96.41 ✓	0.48	83.30 ✓
24+00			11.0	85.4
+50			9.5	86.9
25+00			8.1	88.3
+50			7.7	88.7
26+00			6.7	89.7
+50			5.7	90.7
27+00			4.7	91.7
+50			3.8	92.6
28+00			2.5	93.9
+8.0	B. Events		2.0	94.4
+8.0			1.0	95.4
29+00			0.9	95.5
TP	9.58	105.91 ✓	0.08	96.33 ✓
+50			10.5	95.4
30+00			9.6	96.3
+50			8.8	97.1
31+00			7.7	98.2
+50			6.6	99.3
32+00			5.5	100.4
+50			4.7	101.2
33+00			4.3	101.6
+50			3.9	102.0

		10591		
34+00			3.4	102.5
+50			2.3	103.6
35+00			1.4	104.5
+50			1.0	104.9
36+00			1.2	104.7
TP	4.34	109.77 ✓	0.48	105.13 ✓
+50			5.4	104.4
37+00			5.4	104.4
+50			5.0	104.8
38+00			4.8	105.0
+50			4.3	105.5
39+00			4.3	105.5
+50			4.8	105.0
40+00			4.8	104.9
+50			5.5	104.3
41+00			4.8	104.9
+50			4.7	105.1
42+00			5.2	104.6
+50			6.5	105.3
43+00			4.1	105.7
+50			3.4	106.4
44+00			2.9	106.9
+50			2.3	107.5
45+00			1.5	108.3
+50			0.8	109.0

		10977		10975	on Top Sta 4310
TP	5.65	11540	0.07	10975	
43+50			6.0	109.4	
44+00			5.6	109.8	
+50			4.9	110.5	
45+00			4.9	110.5	
+75			5.0	110.4	
+80			5.1	109.8	
+50			5.2	110.0	
+55			5.8	109.6	
+60	↳ Hairies		5.2	110.2	
46+00			5.4	110.0	
+25			5.9	109.5	
+50			5.0	110.4	
47+00			4.5	110.9	
+16			4.3	111.1	
+20			5.2	110.2	
+25			4.4	111.0	
+50			4.2	111.2	
+68			4.9	110.5	
+80			3.6	111.8	
48+00			3.9	111.5	
+50			3.8	111.6	
49+00			3.4	112.0	
+50			3.1	112.3	
50+00			2.3	113.1	

		115.40		179	113.61	on Top Sta 5020
TP	6.51	12012		179	113.61	
50+50				5.6	114.5	
51+00				3.5	116.6	
+23				2.3	117.8	
+25				2.7	117.4	
+35				2.0	118.1	
+40	↳ Lograban			1.0	119.1	
B.M.			3.24		116.88	↳ Nails Pole inside Lograban 5' away
B.M.			12.17		107.95	↳ Nails Pole Flax Station

SEWER LEVELS @ Allison St.
From S. Alley Between Beryl & Hilber
To S. Alley North Van Noys

BM	12.85	75.03	62.18	on Stake
0+0	S. Alley & Hilber	12.85	62.18	
+55		11.7	63.3	
+75		10.6	64.4	
1+00		10.1	64.9	
+50		8.3	66.7	
+70		7.5	67.5	
2+00		6.9	68.1	
+05		7.5	67.5	
+50		6.5	68.5	
3+00		5.9	69.1	
+50	S. Alley & Hilber	4.95	70.05	on Stake
4+00		4.3	70.7	
+50		3.6	71.4	
5+00		2.8	72.2	
+50		2.0	73.0	
6+00		1.2	73.8	
TP	10.76	84.69	73.93	
+50		9.5	75.2	
7+00		9.0	75.7	
+391	S. Alley & Hilber	9.24	75.45	on Stake
+50		9.0	75.7	
8+00		7.8	76.9	
+65		5.7	79.0	
+74		6.0	78.7	

16
2-2-25

84.69

9+00	8.3	76.4	
+10	5.4	79.3	
+10	4.6	80.1	
+45	4.4	78.3	
+48	4.7	80.0	
10+00	3.1	81.3	
+50	1.6	83.1	
-841	Δ 6 4 39' S. Alley 10.65	94.34	82.69 ✓ on Stake
11+00	1.00	84.3	
+50	7.7	86.6	
+88	6.5	87.8	
+91	6.7	87.6	
12+00	7.8	86.5	
+19	10.9	83.4	
+25	11.3	83.0	
+41	10.5	83.8	
+70	7.0	87.3	
13+00	5.5	88.8	
+50	2.3	92.0	
14+00	0.1	94.2	
TP	12.44	106.75	0.03
+201	Δ 8 8 8 S. Alley Between Sapphire & Tourmaline	119.7	94.83 ✓ on Stake
+50		11.0	95.8
15+00		9.5	97.3
+50		8.1	98.7
16+00		6.2	100.5

↑
↓
for check

		106.75		
16150			4.9	101.9
17100			2.2	104.6
+30			1.5	105.3
+52.0	2 Alley Cat Targaise + Sapphire		11.00	95.5 ✓ on slab
+70			18.0	88.8
+81			19.6	87.2
+90			21.6	85.2
18100			20.6	86.2
+12			19.8	87.0
+15			18.5	88.3
+30			16.3	90.5
+60			4.5	102.3
+76			3.0	103.8
19100			3.0	103.8
+09.5	2 Targaise Top 94709		2.94	103.81
+30			2.7	104.1
+50			1.3	105.5
TP	12.68	119.12 ✓	0.31	106.44 ✓
20100			10.9	108.2
+50			2.3	109.8
+96.7	2 Alley		8.24	110.88 ✓ on slab
21100			8.0	111.1
+50			7.0	112.1
22100			6.2	112.9
+50			5.2	113.9

Returned

				119.12	
23100			3.6	115.5	
24100			1.5	117.6	
TP	13.02	131.39 ✓	0.25	118.37 ✓	
+57.7	2 Alley		12.03	119.36 ✓ on slab	
25100			10.2	120.6	
+10			10.5	120.9	
+15			15.0	116.4	
+21			14.8	116.6	
+30			12.9	117.5	
+36			9.2	122.2	
26100			7.3	124.1	
+50			5.0	126.4	
27100			2.3	129.1	
+50			0.0	131.24	
TP	12.91	143.41 ✓	0.99	130.60 ✓	
+97.9	2 Alley		9.12	134.29	
28100			8.9	134.5	
+50			6.3	137.1	
29100			4.2	139.2	
+50			1.0	142.4	
TP	10.35	153.53 ✓	0.23	143.18 ✓	
30100			2.6	144.9	
+50			5.7	147.8	
31100			2.6	150.9	
+12.7	2 Alley		15.6	151.67 ✓ on slab	

Section Levels & Elevations
 Between Loring and Hyacinth
 From E. Allison to E. Gresham
 8+69 St. Ford Page 16

0+0	E. Allison & Alley	9.24	75.45
+30		7.7	77.0
+40		6.5	78.2
+50		6.0	78.7
+100		4.7	80.0
+50		3.9	81.0
2+00		2.9	81.8
+31		2.4	82.3
+35		3.0	81.7
+45		1.9	82.8
3+00		2.0	82.7
+50		6.2	83.5
TP	1311	96.60 ✓	83.99 ✓
+100		12.0	84.6
+50		10.9	85.7
5+00		9.7	86.9
+50		8.4	88.2
6+00		6.9	89.7
+50		5.9	90.7
7+00		4.6	92.0
+11.5	E. Bayard	3.8	92.8
+60		3.6	93.0
8+00		3.1	93.5
+60		2.5	94.1
+85		0.7	95.9

96.60

9+00		1.4	95.2
+10		2.3	94.3
+50		1.7	94.9
10+00		1.7	94.9
+50		0.5	96.1
TP	650	102.63 ✓	96.13 ✓
11+00		6.5	96.1
+26		6.3	96.3
+25		6.6	96.0
+42		6.8	95.8
+44		7.1	95.2
+63.5	E. Cass Top Pairing	5.84	96.79 ✓
+80		6.5	96.1
+82		5.5	97.1
12+00		5.6	97.0
3M		6.02	96.61 ✓ sphsr Carrt. Alley
+50		5.1	97.2
13+00		4.7	97.9
+50		3.3	99.3
14+00		2.0	100.6
TP	972	112.00 ✓	102.78 ✓
+50		2.5	102.5
15+00		3.5	103.5
+50		2.1	104.9
16+00		5.2	106.8

		112.00		
16.50			3.5	108.5
17.00			2.5	109.5
+14			1.7	110.3
+20			2.9	109.1
+25			2.0	110.0
+33.5	E. Davies		1.2	110.8
TP	9.50	121.25 ✓	0.25	111.75 ✓
18.00			9.1	112.2
+50			7.0	114.3
19.00			4.7	116.6
+50			3.1	118.2
20.00			0.7	120.6
TP	10.27	131.33 ✓	0.19	121.06 ✓
+50			8.5	122.8
21.00			6.9	124.4
+30			5.0	126.3
+50			5.3	126.0
22.00			4.0	127.3
+50			3.0	128.3
23.00			2.3	129.0
+23.5	E. Everts		1.8	129.5
TP	11.06	141.07 ✓	1.32	130.01 ✓
+50			11.0	130.1
24.00			9.2	131.8
+50			8.1	132.7

				141.07
25.00			8.0	133.1
+50			7.4	133.7
26.00			6.5	134.6
+05			6.0	135.1
+50			4.9	136.2
27.00			2.5	138.6
TP	12.56	153.74 ✓	0.29	140.68 ✓
+50			12.6	140.6
28.00			11.2	141.9
+50			9.4	143.8
29.00			7.7	145.5 ✓
+23.52 Fance!			7.5	145.7
+50			6.1	147.1
30.00			4.2	149.0
+50			2.5	150.7
31.00			2.0	151.2
+50			1.6	151.6
TP	10.28	162.90 ✓	0.42	152.02 ✓
32.00			10.8	152.1
+50			10.7	152.2
33.00			9.9	153.0
+10			10.3	152.6
+12			11.7	151.2
+15			10.1	152.8
+50			9.8	153.0

		162.90		
34100			8.2	154.7
+40			8.0	151.9
+83.5	to Gresham		7.9	155.0
TP	787	17035 ✓	0.42	162.48 ✓

Sevier Levels to Allot
 Between Hyacinth and Tourmaline ✓
 From E. Allison to E. Gresham

		17035		
34+83.5	to Gresham		7.0	168.4
+7.5			7.4	169.0
+7.0			7.0	169.4
34100			7.1	169.3
+7.6			7.5	168.9
+7.3			7.5	165.9
33700			8.0	167.4
311			7.7	167.55 ✓
+5.0			7.7	166.7
32100			5.4	165.0
+5.0			6.8	163.6
31400			7.7	162.7
+7.5			9.2	161.2
30700			11.0	159.4
TP	125	16142 ✓	10.15	160.17 ✓
+7.5			3.1	157.8
+7.3			3.1	157.8
703.5	to Fossil		5.3	156.1
29100			5.4	156.0
+5.0			7.0	154.4
28200			8.8	152.6
+5.0			10.5	150.9
27400			11.7	149.7
TP	107	15074 ✓	11.75	149.67 ✓
+5.1			8.5	148.2

Top Conc. Boat
 SX Cor. House

		150.74		
26+00			4.0	146.7
+50			6.0	144.7
25+00			7.6	143.1
+50			9.0	141.7
24+00			10.2	140.5
+50			11.2	139.5
+22.5 Everts			11.9	138.8
23+00			12.6	138.1
TP	0.06	138.76	12.04	137.20 ✓ антропо 23+00
+75			1.7	137.1
+70			2.1	136.2
+60			3.2	135.6
+57			4.3	134.5
+52			3.0	135.8
+30			2.9	135.9
22+00			4.0	134.8
+90			4.6	134.2
+80			4.3	134.5
+50			5.3	133.5
21+00			7.4	131.4
+50			9.0	129.8
20+00			11.1	127.7
TP	0.56	121.54	12.78	125.98 ✓
+50			1.0	125.5
19+00			2.8	123.7

		126.54		
18+50			5.0	121.5
18+00			7.4	119.1
+50			9.7	116.8
+43.5 Everts			9.6	116.9
+30			9.9	116.6
+22			11.0	115.5
+17			9.8	116.7
17+00			10.2	116.3
+50			10.7	115.8
16+00			12.7	113.8
TP	1.82	115.99	12.07	114.17 ✓
+75			2.8	113.2
+50			5.8	110.2
+40			6.3	109.7
15+00			6.4	109.6
+80			6.5	109.5
+50			5.2	110.8
14+00			5.6	110.4
+50			6.1	109.9
13+00			6.8	109.2
+50			7.3	108.7
+52			7.9	108.1
12+00			7.0	109.0
+32			8.4	107.6
+80			10.2	105.7

115.99

11+13.5	E Cass Top Poling		9.64	106.35
+75			10.2	105.8
+43			9.1	106.9
11+100			9.1	106.9
+50			9.7	106.3
10+100			10.5	105.5
TP	0.26	106.05	10.20	105.99
+50			1.6	104.5
9+100			3.0	103.1
+50			4.3	101.8
8+100			5.5	100.6
+50			6.6	99.5
+38			6.6	99.5
+37			7.8	98.9
+18.5	E. Boyard		7.4	98.7
7+100			8.0	98.1
+50			9.5	96.6
6+100			10.0	96.1
+50			11.7	94.4
5+100			11.5	94.6
TP	0.93	95.29	11.67	94.36
+50			2.4	92.9
4+100			4.1	91.2
+50			4.7	90.6
3+100			5.3	90.0

95.29

+50	6.1	89.2
2+100	7.0	88.3
+50	7.8	87.5
1+100	8.7	86.6
+50	9.9	85.4
+35	9.8	85.5
+28	10.5	84.8
0+100	11.53	83.26
		83.19

0+100 & 11/15/07
= 10.534

83.19

Sower Levels L. Alley
 Between Sapphire And Tourmaline ✓
 From L. Allison to L. Gresham

	8.08	102.89 ✓	94.83 ✓	005700 14120 109.136
0+0 = L. Allison & Alley = 14120. Between	8.08		94.83	005700
+50	8.4		94.5	
1+00	8.4		94.5	
+50	8.0		94.9	
2+00	6.9		96.0	
+50	5.9		97.0	
3+00	5.0		97.9	
+50	4.4		98.5	
4+00	4.0		98.9	
+55	4.3		98.6	
5+00	3.7		99.2	
+50	1.8		107.1	
6+00	0.0		102.9	
TP	924	11179 ✓	102.50 ✓	
+50			105.5	
7+00			106.8	
+50.7 L. Bayard			107.7	
+65			108.1	
8+00			108.6	
+20			108.8	
+60			107.1	
9+00			109.0	
+10			109.1	
+87			108.4	

11179

9+00			17	110.1
+90			1.3	110.5
10+00			1.6	110.2
+35			2.2	109.6
+60			1.2	110.6
TP	1295	12412 ✓	0.62	111.7 ✓
11+00			1.2	112.9 - 5
+50			9.5	114.6
+65			9.6	114.5
+75			8.0	116.1
+91.0 L. Cass			7.3	116.8
12+00			7.4	116.7
+08			7.7	116.4
111			7.2	116.9
+50			6.6	117.5
13+00			6.1	119.0
+18			5.9	118.2
+50			4.8	119.3
14+00			3.5	120.6
+50			3.1	121.0
15+00			2.5	121.6
+50			2.3	121.9
16+00			1.7	122.4
+50			1.9	122.2
+75			2.0	122.0

		124.12		
17100			2.0	172.0
+36			1.6	172.5
TP	1275	136.39 ✓	0.88	123.64 ✓
+44			12.8	123.6
+50			14.1	122.3
+55			13.0	123.4
+71	B. Jones		13.8	123.2
+91			12.0	124.4
18100			11.4	125.0
+50			10.6	125.8
19100			9.9	126.5
+40			9.5	126.9
20100			8.2	128.2
+50			6.2	130.2
21100			4.0	132.4
+50			1.4	135.0
TP	1247	147.81 ✓	1.05	135.34 ✓
22100			11.3	136.5
+50			9.2	138.6
23100			7.1	140.7
+50	B. Everts		4.5	143.3
+75			4.3	143.5
24100			3.8	144.6
+50			1.5	146.3
TP	1279	160.04 ✓	0.54	147.25 ✓

		110.04		
25100			12.3	147.7
+50			10.6	149.4
26100			9.1	150.9
+50			7.4	152.6
+75			7.2	152.8
27100			6.1	153.9
+50			4.2	155.8
28100			2.5	157.5
+50			0.5	159.5
TP	1275	172.35 ✓	0.84	159.60 ✓
29100			10.8	161.6
+31	B. Farnell		9.8	162.6
+50			9.0	163.4
30100			7.0	165.4
+50			4.2	168.2
31100			2.1	170.3
BM			4.75	167.60 ✓
TP	1312	184.99 ✓	0.48	171.87 ✓
+50			12.4	172.6
32100			10.2	174.8
+50			8.1	176.9
33100			5.8	179.2
+50			3.5	181.5
34100			2.3	182.7
+50			1.5	183.5
+65			1.8	183.2
35100			4.1	180.9
+12.8	Gresham		5.5	179.5

Elev. S. Tower 100
 SW Cr. Point
 Top Cont. Check
 167.59

Sever Levels & Hvel
 Between Turquoise And Aqda
 From 510 M & Allison to & Farnoc

3M	12.95	108.40	95.45	00 stab 13.129
0+0 = 13.129		12.95	95.45	
+50		10.9	97.5	
1+00		9.2	99.2	
+50		7.9	100.5	
2+00		6.6	101.8	
+50		5.1	103.3	
3+00		3.3	105.1	
+50		1.9	106.5	
TP	12.30	120.56	108.26	
4+00		12.2	108.4	
+50		11.2	109.4	
5+00		10.2	110.4	
+10	& Allison	9.60	111.0	on stab
+35		8.9	111.7	
+50		8.2	112.4	
6+00		7.0	113.2	
+50		5.1	115.2	
7+00		3.6	117.0	
+18		3.7	116.9	
+43		5.6	115.0	
+70		8.9	117.7	
+93		1.7	118.9	
8+00		2.4	118.2	
+30		7.4	113.2	

25
13.125

120.56

8+50		6.6	114.0
+80		6.0	114.6
+90		5.0	115.6
9+00		4.9	115.7
+32		4.8	115.8
+37		6.7	113.9
+40		10.2	110.2
+45		10.3	110.1
+52		7.9	112.7
+66		7.3	113.3
+80		0.7	119.9
TP	12.65	133.01	120.36
+93		9.0	124.0
10+00		8.2	124.8
+25		6.7	126.3
+50		6.3	126.7
11+00		5.1	127.6
+12		5.5	127.5
+16		4.8	128.2
+50		3.9	129.1
12+00		1.5	131.5
TP	12.87	145.32	132.45
+50		11.5	133.8
13+00		7.7	135.4
+15		9.2	136.1

		145.32		
13+50			9.0	136.3
+81			8.1	137.2
14100			8.8	138.5
+28			9.7	135.6
+50			8.7	136.6
15+00			6.1	139.2
+25			5.5	139.8
+50			4.5	140.8
16+00			2.6	142.7
+25			1.5	143.8
+50			1.9	143.4
+78			1.7	143.6
+79			2.6	142.7
+99.5	AGSS		1.0	144.3
17+18			1.4	143.9
+19			0.7	144.6
TP	6.09	150.90	0.51	144.81
+50			5.9	145.0
18+0			5.6	145.3
+10			5.4	145.5
+25			4.8	146.7
+50			4.2	146.7
+85			3.2	147.7
19+0			3.2	147.7
+50			2.7	148.0

		150.90		
20+00			2.0	147.9
+50			3.8	147.1
21+00			4.3	146.6
+50			5.0	145.9
22+00			4.9	146.0
+54			5.5	145.4
+55			6.0	144.9
+79.5	DANCE		6.0	144.9
+93			6.9	144.0
+95			5.9	145.0
23+00			5.9	145.0
+50			5.8	145.1
24+00			5.3	145.6
+50			4.4	146.5
25+00			3.3	147.6
+50			1.9	149.0
+70			1.1	149.8
TP	13.03	162.40	0.53	150.37
+81			13.0	150.4
26+31			11.5	151.9
+50			11.0	152.4
27+00			9.2	154.2
+50			6.6	156.8
28+00			4.6	158.8
+50			2.8	160.6

		16340		
29100			1.0	162.4
TP	1248	175.01	0.27	162.53
+50			10.5	164.5
30400			8.7	166.3
+50			7.7	167.3
31400			6.0	169.0
+50			4.2	170.8
32100			2.1	172.9
+50			1.0	174.0
+68			1.5	173.5
+70			4.6	170.4
+75			4.3	170.7
+76			2.0	173.0
33700			2.0	173.0
+50			2.4	172.6
34100			1.6	173.4
+39.5	2 Faniel		0.8	174.2
TP	11.51	185.84	0.68	174.33
TP	12.86	198.19	0.51	185.33
TP	6.76	202.85	2.10	196.09

Sewer Levels & Alley
Between Agate And Archer
From 510th & Allison to Faniel ✓

27

		20785		
33100 = 139.511 E Faniel			5.5	149.3
+90			1.2	201.6
+50			2.8	200.0
32700			7.0	195.8
+50			10.2	192.4
TP	0.12	190.27	12.70	190.15
32400			2.0	188.3
+50			5.0	185.3
30700			7.7	182.6
+25			8.7	181.6
+70			10.5	179.8
+50			11.5	178.8
29100			12.8	177.5
TP	0.14	177.55	12.86	177.41
+59.5	2 Exerts		3.2	174.3
28100			5.8	171.7
+50			6.6	170.9
27100			7.6	169.9
+50			9.0	168.5
26100			10.7	166.8
+50			12.3	165.2
25700			13.3	164.2
TP	1.74	166.76	12.53	165.02
+50			5.4	161.4
24100			7.6	159.2

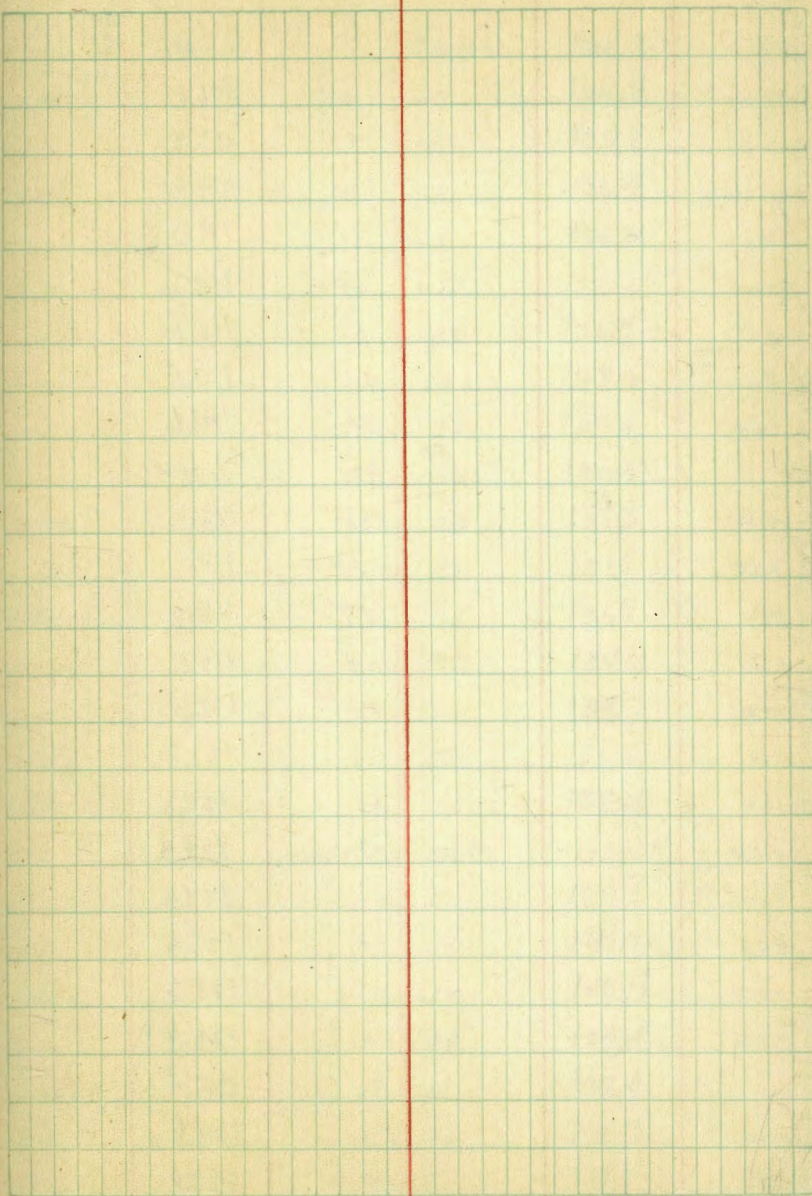
		166.76		
+50			9.5	157.3
+20			10.0	156.8
23+00			9.7	157.1
+90			9.7	157.1
+79.5	to Dames		8.6	158.2
+60			9.1	157.7
22+00			9.3	159.5
+50			6.1	160.7
21+00			4.8	162.0
+85			1.2	162.6
+50			4.9	161.9
20+00			5.1	161.7
+50			4.5	162.3
19+00			2.9	163.9
+50			2.3	164.5
+35			2.2	164.6
18+00			3.1	163.7
+50			5.0	161.8
TP	0.64	162.47	4.93	161.83
+10			2.0	160.5
16+99.5	to Cass		2.5	160.0
+75			3.1	159.4
+50			4.0	158.5
16+00			5.4	157.1
+65			1.5	156.0

NE Prop Hub
Cass & Hwy

		162.47		
+50			7.8	154.7
15+00			14.0	151.9
+50			13.2	149.3
TP	0.42	149.93	12.96	149.51
14+00			2.6	147.3
+55			4.0	145.9
+45			5.7	144.2
+25			6.9	143.0
13+00			13.7	136.2
+93			16.2	133.7
+89			18.5	131.4
+72			17.8	132.1
170			14.6	135.3
+50			13.6	136.3
+13			13.1	136.8
12+00			11.5	138.4
+93			9.6	140.3
+50			10.3	139.6
11+00			13.2	137.7
+50			13.6	136.3
TP	0.74	137.15	12.99	136.94
10+00			2.7	135.0
+50			4.0	133.7
9+00			5.6	132.1
+50			8.1	129.3

28
12-17-85

		137.68		
8+00			10.4	127.3
+50			11.9	125.8
7+00			13.3	124.4
TP	0.72	125.78 ✓	12.62	125.06 ✓
+50			2.7	123.1
6+00			3.9	121.9
+50			5.7	120.6
+10	2 Allison		6.30	119.48 <i>oo stub</i>
5+00			6.8	119.0
+50			8.0	117.8
4+00			9.3	116.5
+46			10.7	115.1
+45			12.3	112.5
+26			15.9	109.9
+09			12.3	113.5
3+00			12.2	113.6
TP	0.17	113.17 ✓	12.78	113.00 ✓
+50			1.5	111.7
2+00			3.3	109.9
+50			5.0	108.2
+25			5.2	108.0
+23			6.0	107.2
1+00			6.2	107.0
+50			7.5	105.7
0+0	= 16.94		8.72	104.45 ✓ <i>oo stub</i>



Server Levels & Alt
Between Chalcedony and Low
From & Logrohorn to & Lamert

BM	0.20	117.08	116.88	
0+00 - & Logrohorn		10.5	106.6	
+40		9.2	107.9	
+100		7.4	109.7	
+50		6.1	111.0	
2+00		4.9	112.2	
+50		4.0	113.1	
3+00		3.6	113.5	
+24		2.5	114.6	
TP	12.54	127.36	114.82	
+40		13.8	113.6	
+50		12.8	114.6	
4+00		12.2	115.2	100'S P 161 111.3
+50		11.4	116.0	
5+00		9.1	118.3	
+50		5.6	121.8	
6+00 & Jettell		3.1	124.3	100'S P 113 116.1
+35		2.1	125.3	
+40		3.0	124.4	
+43		1.9	125.5	
+50		2.1	125.3	
+75		1.5	125.9	
7+00		2.0	125.4	
+50		2.6	124.8	
8+00		3.5	123.9	

North to Pole
1/12 Logrohorn
1/11 Logrohorn
Low & 80' //

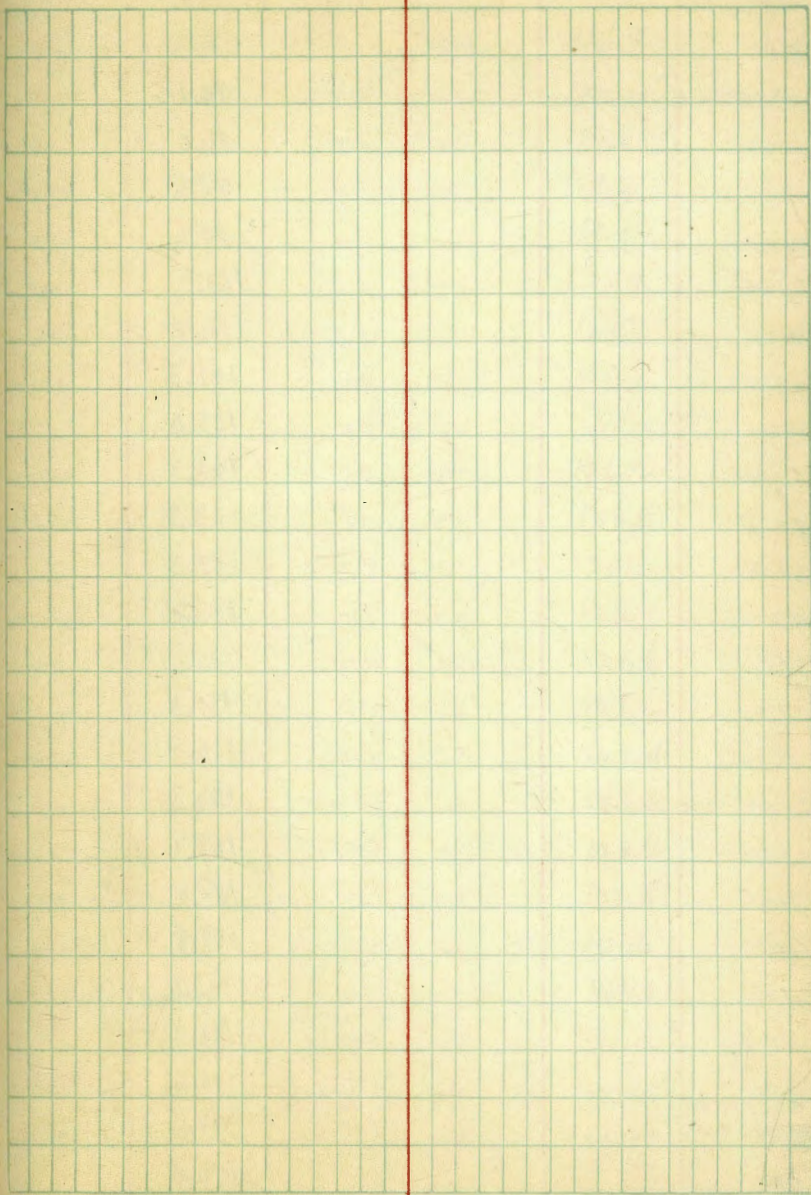
100'S
P
161 111.3

100'S
P
113 116.1

127.36

8+50		3.1	124.3	
+75		3.0	124.4	
9+00		1.6	125.8	
+50		1.0	126.4	
10+00		1.4	126.0	
TP	11.90	139.03	127.13	
+50		12.6	126.4	
11+00		10.7	128.2	100'S P 12.3 125.7
+50		8.9	130.1	
12+00		7.3	131.7	
+40		5.7	133.3	
+50		7.9	131.7	
+55		7.2	131.8	
+65		5.0	134.0	
13+00		4.3	134.7	
+50		2.5	136.5	
14+00		0.6	138.4	
TP	4.90	142.58	138.21	
+50		5.1	138.8	25'S P 00.7 Foot House
15+00		3.7	140.2	
+50		3.5	140.4	
16+00		1.5	139.4	
+50		5.0	138.9	
17+00		5.6	138.3	
+45		6.0	137.9	

+29	9.2	134.7	
+39	9.2	134.7	
+42	10.6	133.3	
+60 & Laman!	9.5	134.4	
B.M	1.84	142.4	North Pole 5N Laminated Laman!



Survey Levels of Filley
Between Missouri And Chalcedony ✓
From Ingraham to Lamont

BM	6.54	105.53 ✓	98.99
0+00 - Ingraham			9.4
+23			9.5
+50			7.0
1+00			5.9
+50			1.5
2+00			3.3
+50			3.0
3+00			2.5
+50			2.8
4+00			2.2
+50			2.2
5+00			1.7
TP	11.36	116.19 ✓	0.70
+35			11.8
+67			9.4
6+00 - Saxell			8.9
+50			8.9
7+00			8.2
+50			6.7
8+00			6.1
+35			4.9
+50			4.6
9+00			4.7
+50			4.2

1101 1100 - 1100
1100 - 1100
1100 - 1100

1005
1005
1005

114.19

10+00			1.7
TP	18.43	127.88 ✓	0.94
+50			1.01
11+00			8.2
+60			6.0
12+00			5.0
+50			3.2
13+00			2.2
TP	2.55	130.17 ✓	1.26
+50			1.0
14+00			4.7
+50			5.2
15+00			5.5
+50			5.8
16+00			6.6
+50			6.8
17+00			6.9
+50			7.2
+35			8.7
+60			9.2
+60 & Lamont			9.2
TP	12.95	139.30 ✓	3.82
TP	4.9	143.61 ✓	0.28
BM			1.54

1101 Pole Set
1101 Lamont

Summer Levels S. 2014 Street
From S. Lamont to S. Ingraham ✓

BM.	11.74	153.78 ✓	142.04	142.04	141.29 ✓
0+0 = S. Lamont			11.5	142.3	
+37			11.1	142.7	
+42			8.6	145.2	
+50			8.0	145.8	
1+00			7.0	146.8	
+35			6.0	147.8	
+42			5.0	148.8	
2+00			4.2	149.6	
+50			4.2	149.6	
3+00			4.1	149.4	
+35			5.3	148.5	
+50			7.8	146.0	
4+00			10.8	143.0	
+50			13.5	140.3	
TP	042	141.71 ✓	12.49	141.29 ✓	
5+00			3.5	138.2	
+50			4.8	136.9	
6+90			5.8	135.9	
6+00			6.7	135.0	
+50			7.5	134.2	
7+00			7.8	133.9	
+50			7.1	134.6	
8+00			7.0	134.7	
+50			7.0	134.7	

141.71

9+05			6.4	135.3	
+67			8.8	132.9	
+77			8.9	132.8	
+80			6.3	135.4	
9+00			5.9	135.8	
+50			4.7	137.0	
10+00			5.3	136.4	
+50			6.0	135.7	
+90			5.7	136.0	
11+00			6.4	135.3	
+473			8.3	133.4	
+50			10.8	130.9	
12+00			12.0	127.7	
+50			14.7	127.0	
13+00			14.1	127.6	
+50			14.0	127.7	
14+00			16.6	125.1	
TP	017	128.94 ✓	12.94	128.94 ✓	
+20			4.1	124.8	
+50			3.7	125.2	
15+00			4.6	124.3	
+50			7.8	121.1	
16+00			8.9	120.0	
+50			11.0	117.9	
+95			13.2	115.6	

	128.94		
17400	14.0	114.9	
+60	19.3	109.6	
3M.	12.05	116.89	

128.94
 116.89
 12.05
 114.9
 109.6

SEWER LEVELS & ALLEY
 BETWEEN LORI AND BERYL
 FROM 2 Ingraham to 2 Lamont

0+0 = 2 Ingraham	10.9	118.0
+50	11	122.8
+90	13.3	125.6
1+00	13	127.6
TP	13.74	139.68
+50	8.4	131.3
2+00	4.7	135.0
TP	9.89	142.28
+50	9.3	139.0
+70	7.4	140.9
3+00	7.0	141.3
+50	7.6	140.7
+90	7.8	140.5
4+00	6.7	141.6
+50	8.4	144.9
+70	2.8	145.5
5+00	3.0	145.3
+50	5.6	142.7
+7.5	6.8	141.5
6+00	7.4	140.9
+90	6.7	141.6
7+5	5.6	142.7
7+00	3.7	144.6
+50	2.8	145.5
8+00	1.8	146.5

		148.28		
8+40			29	145.4
9+00			33	145.0
+50			30	145.3
10+00			19	146.4
+50			07	147.6
TP	12.17	160.30 ✓	045	149.83 ✓
11+00			11.2	149.1
+60			9.1	151.2
+85			88	151.5
12+00			77	152.6
+50			70	153.3
13+00			64	153.9
+50			60	154.3
+75			61	154.2
14+00			72	153.1
+50			88	151.5
+68			96	150.7
15+00			72	153.1
+55			3.4	156.9
16+00			34	156.9
+50			46	155.7
17+00			51	155.2
+15			54	154.9
726			81	152.2
+60 \$ Limit			98	151.1

160.30

TP	0.77	1520.5 ✓	9.02	151.28 ✓
BM			10.02	141.97 ✓

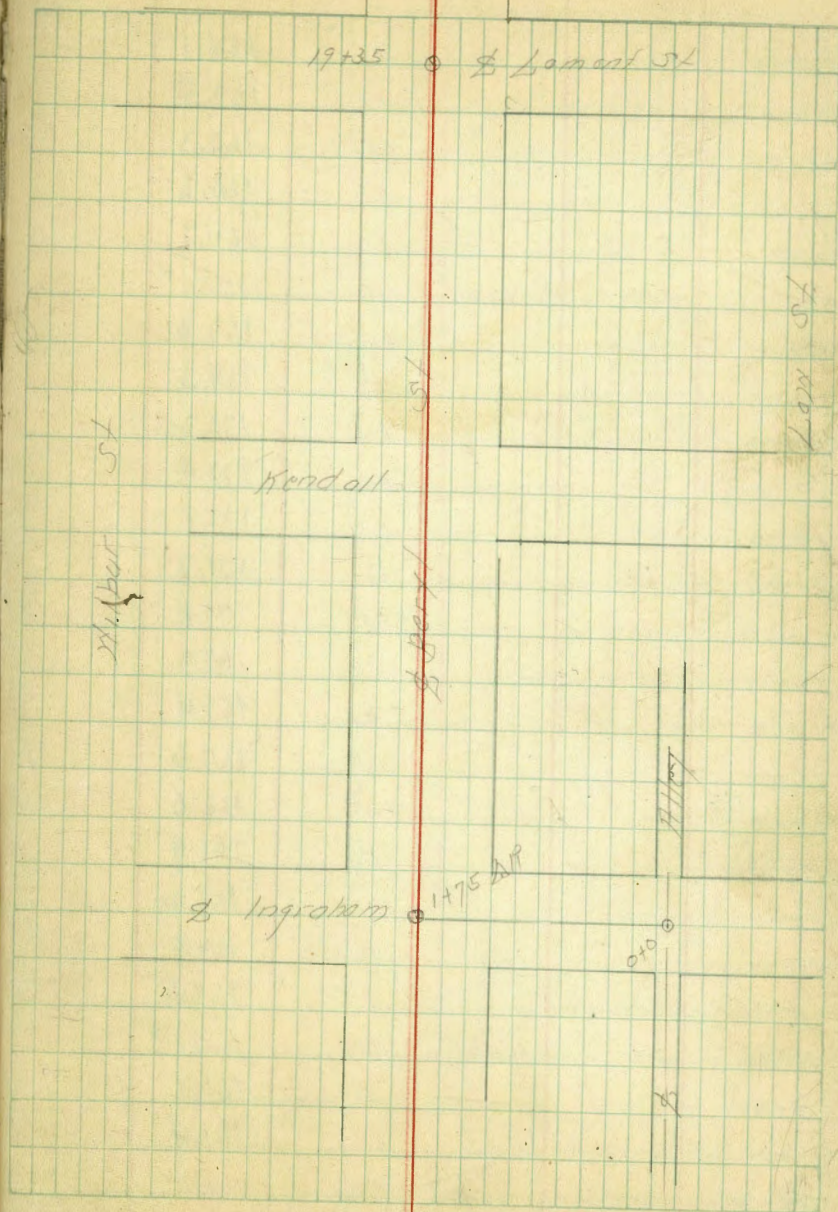
10/1 P/L
571 Cap. Last Row
29 07 07
142.04

Water Levels to Beryl St
From Ingraham to Lamont

B.M.	1308	12996		11688
0+0 = Ingraham			11.3	118.7
+50			9.8	122.2
1+00			4.7	125.3
+50			2.0	128.0
+75 AP 90° = Beryl			0.1	129.9
TP	1266	14246	0.16	129.80
2+00			9.5	133.0
+50			7.5	135.0
+50			4.1	138.4
3+00			0.0	142.5
TP	1254	15495	0.05	142.11
+50			8.1	145.9
4+00			3.5	151.5
TP	1219	16671	0.13	151.52
+50			11.5	153.2
5+00			10.5	156.2
+50			10.6	156.1
6+00			10.9	155.8
+50			10.6	156.1
7+00			9.6	157.1
+50			7.1	159.6
8+00			6.1	160.6
+50			3.8	162.9
9+00			0.9	165.8

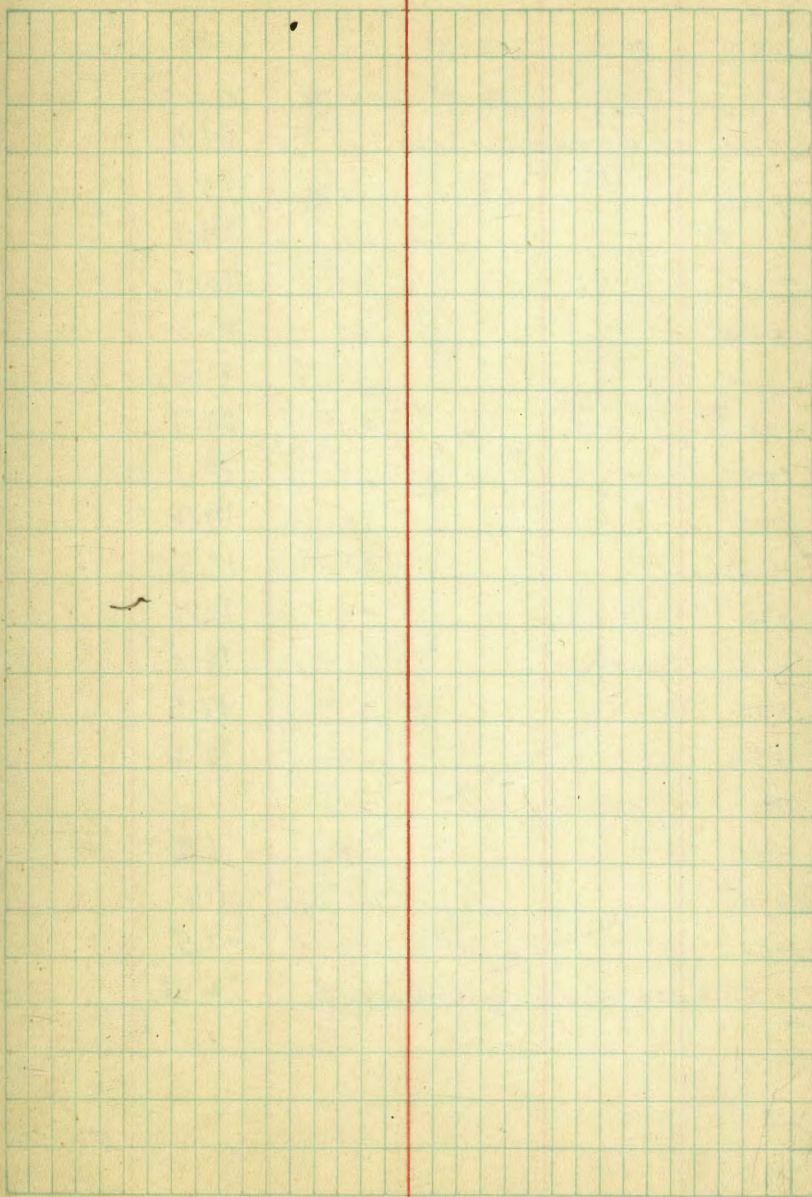
1011 Pole
at Ingraham
at 1013 Beryl
at 1014 Beryl

36
1-11-56



		166.71		
9+50			0.6	166.1
10+00			3.2	163.5
+60			6.4	160.3
11+00			6.1	160.6
+50			2.0	164.7
TP	9.89	170.56 ✓	0.10	166.61 ✓
12+00			9.5	167.0
+50			7.2	169.3
13+00			4.3	172.2
+70			3.6	172.9
+50			3.7	172.8
14+00			4.8	171.7
+50			5.4	171.1
15+00			7.2	169.3
+50			9.1	167.4
16+00			11.5	165.0
+50			14.5	162.0
17+00			14.6	161.9
+50			13.3	163.2
18+00			12.00	164.5
+55			12.5	164.0
TP	2.10	165.98 ✓	12.62	163.88 ✓
19+00			4.7	161.3
+35	2. Lament		4.6	161.4
TP	1.67	155.43 ✓	12.27	153.76 ✓
BN			13.43	142.00 ✓

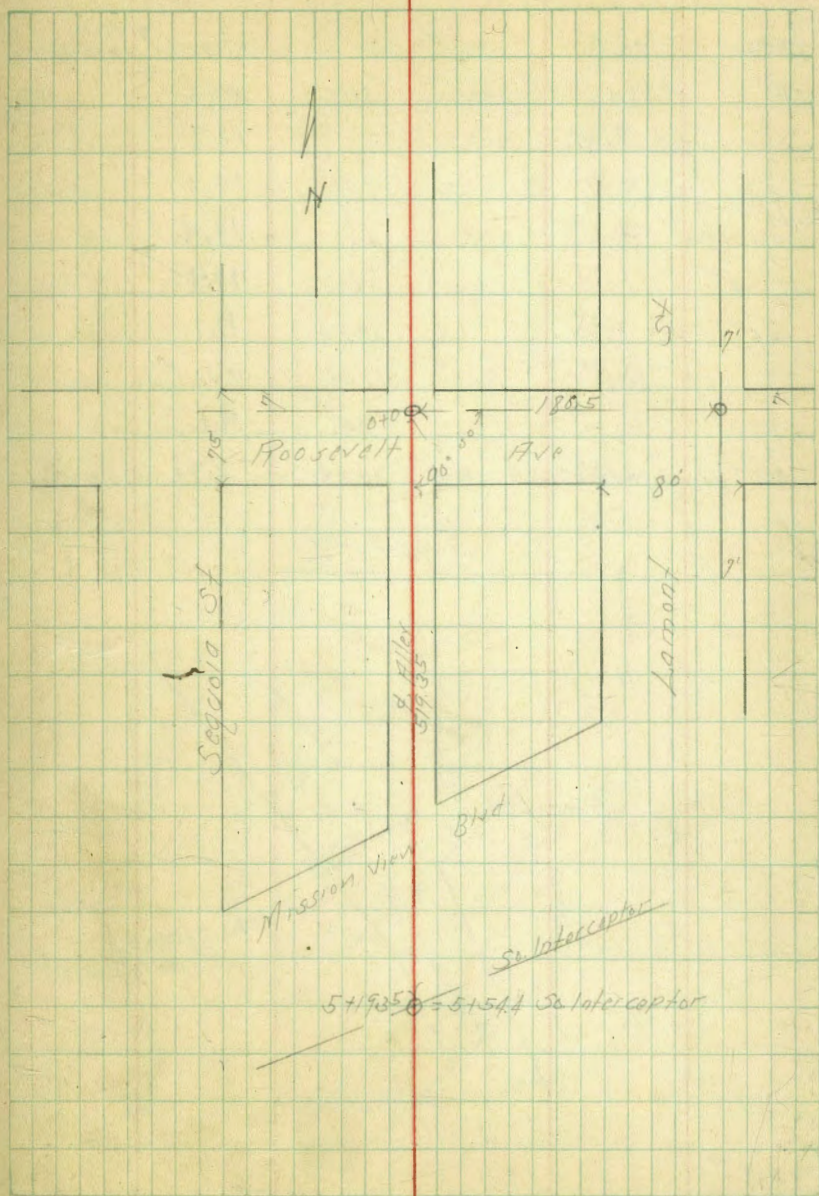
Hail Pale
Siff Lament
Lament 14.1



Server Levels of Allen
Between Sequoia & Lamont
From N.Y. Line Roosevelt to

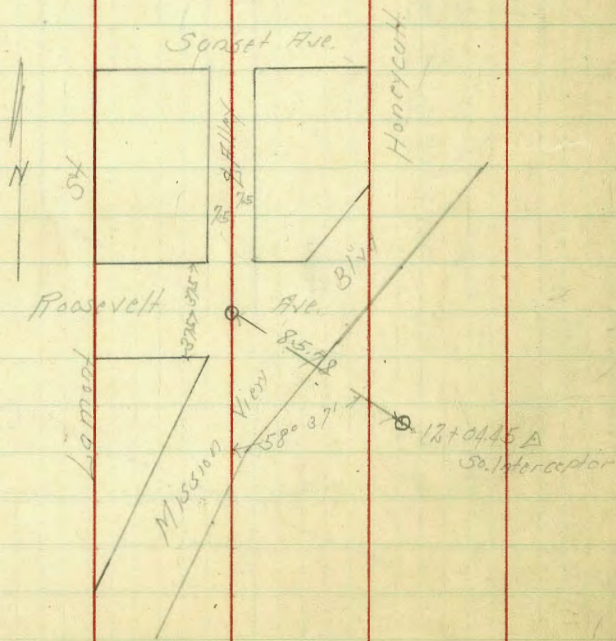
BM	293	30.39	2746	2746
TP	592	26.06	10.25	20.14
0+00	= 2. Allen Bet Sequoia & Lamont and N.Y. Line Roosevelt		21	24.0
+50			22	23.9
+100			26	24.1
+50			30	23.1
+100			38	22.3
+50			45	21.6
+100			54	20.7
+50			60	20.1
+100			68	19.2
+13			68	19.3
+14			77	18.4
+33	2. Paved Road		70	19.1
+70			81.7	18.0
+83			13.5	12.6
TP	004	13.17	12.93	13.13
+93			6.3	6.9
+100			11.6	1.6
+104			15.7	-2.5
+19.35	= 51544 Southern Interceptor		15.75	2.58

Mon
La Playa Station



Sewer Levels & Alley Between Lamont & Honeycutt
From E. Roosevelt to B on Southern Interceptor

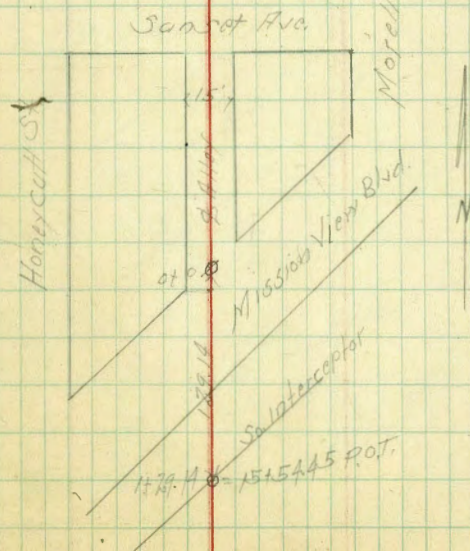
TP	9.13	22.01 ✓	12.93	18.93	B Ford Page 38
TP	2.84	22.04 ✓	2.86	19.20 ✓	
0+0	= Alley + Roosevelt		2.2	19.8	
+20			2.9	19.1	
+30			2.6	19.4	
+56			4.2	17.8	
+66			10.9	11.1	
TP	2.21	11.61 ✓	12.64	9.40 ✓	
+76			7.0	4.6	
185.78	12+04.45 S. Interceptor		14.32	-2.71	on table



Sewer Levels & Alley
Between Honeycutt and Morell
From NW Line Mission View Blvd. to Southern Interceptor

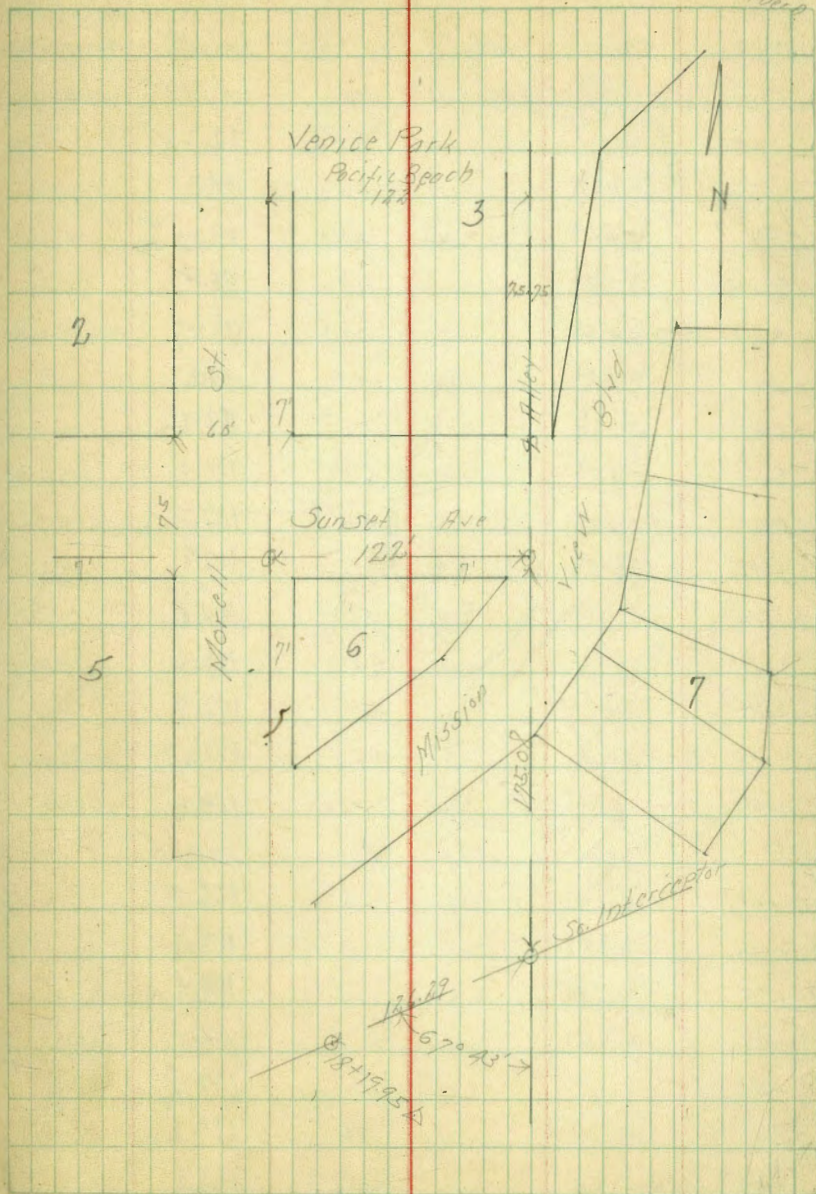
1161

1+79.14	= 15+54.45 S. Interceptor		13.78	-2.72	on table
TP	12.53	10.36 ✓	13.78	-2.17 ✓	
1+20			11.2	-0.8	
1+00			5.8	4.6	
For Check			12.21	-1.9	on table Southern 1813.95 Interceptor
TP	12.21	21.56 ✓	1.04	9.32 ✓	
0+75			8.5	13.1	
0+64			3.0	18.6	
TP	5.38	24.92	2.02	19.54	
0+30	Approx Mission View		4.3	20.6	
0+15			5.2	19.7	
0+0	= Alley + NW Line Mission View		4.9	20.0	



Tie From Sunset And Morell
 Venice Park Pacific Beach
 To Southern Interceptor On Tide Lands

2-3-26
 Susan
 Buss
 Northridge



Sewer Levels to Marrell St

From to Alley between Emerald & Diamond
To Alley between Wilbur & Loring

BM	1162	9479	82.17	Method Morris & Johnson
0+00 = Alley bet Emerald & Diamond			87.5	on slab
+50			82.1	
+100			0.5	94.3
TP	11.93	107.20	0.52	94.27
+50			11.8	95.4
+75 & Diamond			11.33	95.87 on slab
+100			10.6	96.6
+40			9.1	98.1
+70			6.1	101.1
3+00			4.5	102.7
+50			3.4	103.8
+100			2.98	104.22 on slab
+50			4.6	102.6
+50			4.6	102.6
5+00			4.3	102.9
+25 & Mission			3.63	105.57 on slab
+50			2.6	104.6
TP	13.07	119.99	0.80	106.40
6+00			12.6	106.9
+50			10.8	108.7
+65			10.1	109.4
7+00			10.4	109.1
+50			10.0	109.5
8+00			8.4	111.1
+50			6.8	112.7

2/16/21
Susan
Bliss
Northwest

11947

8+95 & Chalcedony	1.37	715.12	on slab
9+00	1.8	117.7	
TP	12.29	131.78 ⁶	0.00
+50		7.3	724.5
10+00		5.4	128.4
+32		4.3	127.5
+60		2.2	124.5
11+00		8.2	123.4
+60		10.2	121.6
12+00		9.6	122.2
+25 & Law		8.71	123.07
+60		7.1	124.4
13+00		2.5	129.3
TP	12.95	144.72 ³	0.00
+50		11.7	133.0
14+00		8.4	136.3
+50		4.1	140.6
TP	12.62	157.32 ⁵	0.00
15+00		11.8	145.5
+50		9.3	148.0
+52		9.9	147.4
+55		9.0	148.3
+75 & Beryl		7.77	149.52 ⁹
16+00		6.0	151.3
TP	12.68	169.62 ⁵	0.59

Section Levels to Alley
 Bet West Diamond and Missouri
 From to Morrell to Jewell

42

16+50		169.4 ⁵	11.5	157.9	
17+00			9.8	165.6	
TP	12.77	181.9 ⁹	0.23	169.2 ⁷	
+50	L. Alley		12.36	169.2 ⁸	on stub
18+00			10.3	170.7	
+50			9.0	173.0	
19+00			6.1	175.9	
+25	L. Milbar		4.35	177.6 ⁴	
+50			2.7	179.3	
TP	12.78	194.5 ⁵	0.22	181.7 ²	
20+00			12.0	182.5	
+60			6.6	187.9	
21+00	L. Alley		2.23	192.3 ²	on stub

BM	10.63	118.5	104.22	900 Sub. 3150 2. Plix Diamond Missouri
0+00	3+50 L. Morrell		104.2	
+60			9.7	105.1
1+00			12.0	102.8
2+00			12.6	102.2
+5.5			10.4	101.4
3+00			12.5	102.3
+36			12.2	102.6
+25			5.6	109.2
4+00			4.8	110.0
+56			8.1	111.2
5+00			2.9	111.9
+56			2.6	112.2
6+00			2.1	112.2
+3.5			2.2	112.1
+60			4.1	110.7
+65			4.7	110.1
7+00			4.1	110.7
+90			4.6	110.2
8+00			3.6	111.2
TP	7.14	118.71	3.28	111.57
+31			5.0	113.7
9+00			5.0	113.7
+50			5.9	113.0
8+00			5.4	113.3

Not Used

		118.71		
8+50			5.4	113.3
9+00			5.4	113.3
+50			6.3	112.4
10+00			6.9	111.8
TP	563	117.80	7.4	111.57
+25			5.9	111.3
+50			6.0	111.2
11+00			6.7	110.5
+25			7.3	109.9
+50			7.8	109.4
12+00			8.7	108.5
+50			9.6	107.6
13+00			10.6	106.6
+50			11.5	105.7
14+00			12.9	104.3
TP	0.43	105.53	12.10	105.10
+25			2.3	103.2
+75			3.2	102.3
15+00			4.1	101.4
+50			5.6	99.9
16+00			6.4	99.1
+50			6.8	98.7
17+00			7.5	98.0
+27			8.3	97.2
140 ft. Saxell			8.8	97.3
BM			6.90	99.13

Neil Pat
E. Saxell
99.05

Sewer Levels & H/W
Between Missouri and Chalcadony ✓
From

2-17-26 43

TP	18.07	124.59		111.57
5+202 Lairmont			3.4	121.2
+40			4.1	120.5
+55			5.2	121.4
5+00			2.7	121.9
+40			2.8	121.8
+15			3.7	120.9
4+00			4.8	119.8
+90			5.1	119.2
+65			5.2	119.4
+32			3.0	121.6
3+00			3.3	121.3
+50			4.8	119.8
2+00			5.5	119.1
+50			6.3	118.3
1+00			8.4	116.2
+70			10.3	114.3
+36			11.1	113.5
TP	2.40	116.47	10.50	113.07
0+00 & Morrell			7.3	109.2
+7+00				

Sewer Levels & Loring St
From E. Marcell to E. Lament

Station	12.17	125.23	123.00	07.5 Stub 12.195
0+00 = 1185 E. Marcell			121.5	
+50			128.2	
1+00			132.2	
+50			132.6	
2+00			133.0	
+50			133.4	
3+00			134.2	
TP = 9.80	144.81	0.22	135.0	
+50			135.5	
4+00			137.1	
+50			138.7	
5+00			140.1	
+50			140.9	
+60			140.0	
+80 = E. Lament			141.2	
BM		2.70	142.1	No. 1 All SN Loring's Level 142.04

Sewer Levels & Beryl St
From E. Marcell to E. Lament

44

Station	12.18	162.45	149.57
0+00 = 15725 E. Marcell			152.3
+50			153.1
+75			154.8
1+00			157.1
+40			157.9
2+00			160.1
+50			160.7
+85			160.4
3+00			160.0
+30			158.7
+40			159.5
4+00			160.2
+50			160.9
5+00			161.0
+50			160.6
+60			161.4
+80 = E. Lament			

Sewer Levels & Alley
Between Beryl and Hilbur



187.80 See Next Page

0+00 = 171.50 E. Morrell	13.26	169.6	on step
+50	13.2	169.6	
1+00	12.8	170.0	
+50	12.0	170.8	
2+00	12.4	170.4	
+08	12.3	170.5	
+12	14.0	168.8	
+15	12.5	170.3	
+50	13.3	169.5	
3+00	12.9	169.9	
+50	12.5	170.3	
4+00	11.0	176.8	
+50	10.2	172.6	
5+00	9.2	173.6	
+40	8.4	174.5	
+60	9.0	173.8	
+80 E. Lament	9.1	173.7	
TP 1.36	178.66	11.50	171.30
TP 0.12	159.74	12.04	159.65
TP 2.08	149.09	12.73	147.01
B.M.	6.99	142.10	Nail 18 1/2 SW Lament & Lant 142.08

Sewer Levels & Hilbur
From E. Morrell to E. Lament

194.80 See Next Page

5+80 E. Lament	8.2	176.8	
+60	8.5	184.3	
+20	7.8	187.0	
5+00	8.0	186.8	
+50	8.2	186.8	
4+00	9.1	185.7	
+50	9.8	185.0	
3+00	10.4	184.4	
+50	10.7	184.1	
2+00	10.8	183.9	
+50	10.2	184.6	
1+00	11.5	183.3	
TP 0.33	182.80	12.99	182.47
+35	1.9	180.9	
0+00 = 194.80 E. Morrell	5.19	177.61	

Softer Levels & Alley
Between Wilbur And Loring
From E. Morrell to E. Lamont

Distance	Notes	1288	20519	19831	on stub
0+00				198.31	on stub
+50				196.8	
1+00				201.3	
+40				202.6	
+80				201.6	
TP	5.39	207.17	✓	201.78	✓
2+00				202.2	
+30				201.1	
+75				201.4	
3+00				200.8	
+50				199.5	
4+00				199.1	
+75				198.8	
+50				200.2	
5+00				201.5	
+30				201.4	
+45	Cone Walk			197.50	
+60	Top Curb			196.90	
	Gutter			196.2	
+80	E. Lamont			197.0	
TP	0.63	194.80	✓	194.7	

Sewer Levels & Pile
Between Emerald and Diamond
From & Lament to Z. Penetration

BM	1288	103.92	91.04	op stub Z. Pile x Marshall
0+00	Z. Lament	1.3	102.6	
100		1.6	102.3	
138		1.8	102.7	
165		2.2	101.7	
185		2.8	101.1	
1+00		2.7	101.2	
150		0.9	103.0	
2+00		2.7	103.2	
135		1.2	102.7	
150		1.7	102.2	
3+00		3.8	100.1	
150		5.8	98.1	
4+00		7.8	96.1	
150		9.6	94.3	
5+00		11.0	92.9	
130		11.3	92.6	
143		12.1	91.3	
160 Gutter		13.3	90.6	
TP 180	Z. Marshall	91.45	12.88	91.04
6+00		1.8	89.6	op stub
130		0.8	90.6	
160		2.9	89.5	
7+00		4.0	87.4	
150		4.6	86.8	

91.45

8+00		5.5	85.9
150		6.6	84.8
9+00		7.2	84.2
150		7.7	83.7
10+00		8.4	83.0
150		8.7	82.7
11+00		9.0	82.4
160 Gutter		9.1	82.0
12+00		10.0	81.4
150		10.5	80.9
175		11.0	80.4
13+00		2.0	82.4
175		8.0	83.4
150		5.8	85.6
175		3.6	87.8
14+00		4.6	86.8
TP	8.36	89.38	10.43
150		3.6	85.8
15+00		5.4	84.0
150		5.7	83.7
16+00		5.6	83.8
115		6.5	82.9
150		8.5	80.9
17+00		11.0	78.4
175		11.6	77.8

	89.38		
17 +19		12.2	77.2
TP +40 ³²⁸ 20 May	80.81	12.45	76.93 ✓ on step
+75		6.2	74.6
18+00		7.5	73.3
+50		7.8	73.0
+75		7.2	73.6
19+00		5.8	75.0
+35		4.5	76.3
+50		4.2	76.6
20+00		4.1	76.7
+50		4.3	76.5
21+00		4.1	76.7
+50		4.3	76.6
22+00		3.8	77.0
+50		4.0	76.8
23+00		5.1	75.7
+70 & Pendleton		5.8	75.0

Setter Levels & 0/04
From & Alley Emerald + Feldspar ✓

48

	80.81	31 Ford	
0+0 & Alley Red Emerald + Feldspar		15.0	65.8
+50		13.4	67.4
+100		11.4	69.4
+50		10.2	70.6
2+00		8.2	72.6
+50		6.2	73.9
3+00		5.3	75.5
+50 & Alley -17+40		3.88	76.93 ✓ on step
+100		2.7	78.1
+50		2.7	80.0
TP 12.67 96.96		2.56	80.25 ✓
+75		10.1	82.8
5+00		7.2	85.6
+2.5 & Diamond		5.16	87.76 ✓ on step
+50		3.0	89.9
+70		1.3	91.6
6+00		0.0	92.9
TP 12.77 105.68		0.01	92.91 ✓
+50		10.7	95.0
7+00 & Alley		7.71	97.97 ✓ on step
+50		2.9	102.8
+65		1.6	104.1
TP 12.78 117.86		0.60	105.28 ✓
8+00		11.7	106.2
+50		9.1	108.8

		117.86		
8	+75 \$ Missouri		7.75	110.11 ✓ on stub
	+100		6.3	111.6
	+50		3.0	114.9
TP	13.12	130.58 ✓	0.40	112.46 ✓
	10+100		12.4	118.2
	+50 \$ Alley		9.13	121.45 ✓ on stub
	11+100		6.0	124.6
	+50		2.5	128.1
TP	12.93	143.34 ✓	0.05	130.53 ✓
	12+100		12.1	131.3
	+75 \$ Chalcedony		10.85	132.51 ✓ on stub
	+50		9.8	133.6
	13+100		8.0	135.4
	+50		6.6	136.8
	14+100 \$ Alley		4.54	138.82 ✓ on stub
	+50		2.1	141.3
	15+100		0.0	143.4
TP	12.63	155.83 ✓	0.16	143.20 ✓
	+50		9.4	146.4
	16+100		6.2	149.6
	+50		1.9	153.9
TP	9.75	165.00	0.58	155.25 ✓
	17+100		6.3	158.7
	+50		2.61	162.39 on stub

Senior Levels \$ Alley
Between Chalcedony and Lax
From \$ Olney to Noyes ✓

119
2-18-26

0+0	10.10	10.50	149.32 ✓	139.82	on stub 141.00 \$ Olney
	+50		9.4	139.9	
	+10		5.8	143.5	
TP	12.74	161.98 ✓	0.08	149.24 ✓	
	+50		13.2	148.8	
	2+100		8.8	153.2	
	+50		3.9	158.1	
TP	12.49	170.95 ✓	0.52	161.41 ✓	
	3+100		12.2	161.7	
	+50		8.1	165.8	
	4+100		6.1	167.8	
	+50		3.2	170.2	
	5+100		2.3	171.6	
	+50		1.2	172.6	
	+20 \$ Noyes		1.2	172.7	
TP	0.57	162.55 ✓	12.97	160.98 ✓	

Sewer Levels & Chaldeony
From Olney to Noyes ✓

		161.55 81 Ford		
5+80	2 Noyes	6.9	154.6	
5+00		8.9	152.6	
7+50		10.6	150.9	
4+00		13.3	148.2	
TP	0.80	149.65	148.85 ✓	
7+50		3.1	146.5	
3+00		4.2	145.4	
7+50		6.4	143.2	
2+00		10.5	139.1	
7+55		13.5	136.1	
TP	0.29	136.94 ✓	136.65 ✓	
1+00		2.8	134.1	
7+50		3.6	133.3	
0+00	-12+2520 Olney	4.4	132.53	on stub

Sewer Levels & Alley
Between Chaldeony And Missouri
From 8. Olney to 2 Noyes ✓

		136.94 81 Ford		
0+00	-12+502 Olney	15.50	121.4	on stub
7+50		14.1	122.5	
1+00		14.6	122.3	
7+50		12.8	124.1	
2+00		11.3	125.6	
7+25		10.2	126.7	
7+50		10.5	126.4	
3+00		10.6	126.3	
7+50		9.8	127.1	
4+00		9.7	127.2	
7+50		9.4	127.5	
5+00		8.7	128.2	
7+50		8.0	128.9	
7+80	2 Noyes	7.5	129.4	
TP	0.18	129.27 ✓	129.09 ✓	

SEWER LEVELS E. MISSOURI
FROM E. OLNEY TO E. NOYES

124.27 Bl. Ford.

5180 E. NOYES	9.6	114.7	
150	9.5	114.8	
5100	10.2	114.1	
150	10.5	113.8	
4100	9.7	114.6	
150	8.9	115.4	
3100	9.0	115.3	
150	9.0	115.3	
2100	9.3	115.0	
150	10.6	113.7	
120	12.0	112.3	
1100	11.8	112.5	
150	12.8	111.5	
105	13.3	111.0	
TP 0100 - 8125 E. OLNEY 110.41	14.12	110.15	005106

SEWER LEVELS E. MISSOURI
BETWEEN MISSOURI AND DIAMOND
FROM E. OLNEY TO E. NOYES

51

110.41

010 - 7100 E. OLNEY	12.40	98.0	005106
TP 993	108.75	115.9	98.82
135	9.0	99.7	
170	5.6	103.1	
1100	3.7	105.0	
125	2.8	105.9	
170	3.9	104.8	
2100	4.7	104.0	
150	4.3	104.4	
3100	2.8	105.9	
TP 595	112.66	204	106.21
150	5.5	107.2	
4100	6.3	106.4	
115	6.8	105.9	
165	5.7	107.0	
5100	5.6	107.1	
150	6.0	106.7	
180 E. NOYES	5.9	106.8	
TP 394	104.36	1224	100.42

SEWER LEVELS ~~at Missouri~~
From E. Olney to E. Hayes

10436

5+80 = E Hayes		11.0	93.4	
+50		9.3	95.1	
+75		8.1	96.3	
+25		6.9	97.5	
5+100		8.2	96.1	
+50		7.8	96.6	
+25		4.9	99.5	
4+100		4.3	100.1	
+50		5.4	99.0	
3+100		5.9	98.5	
+65		9.2	95.2	
+25		10.8	93.6	
2+100		11.2	93.2	
+50		11.4	93.0	
1+100		11.1	93.3	
For T.P. ahead		9.6	94.9 ✓	
+50		12.2	92.2	
TP	7.07	98.59 ✓	91.52 ✓	
0+100 = 54252.01174 + Diamond		10.80	87.8	on stub
	5.76	100.52 ✓	94.76	
BM		9.37	91.13 ✓	on stub 2.10.01 + 7.10.01 Diamond 91.01

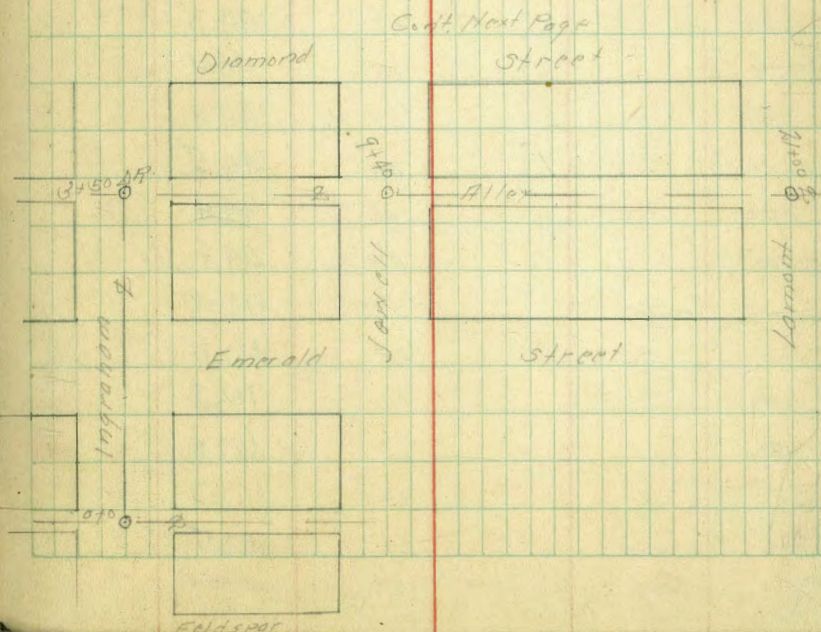
52

Sewer Levels & Logrham And Alley Between Diamond & Emerald
 From & Alley Between Feldspar & Emerald to & Lamont

BM	2.53	7797	75.44	on stub to Jewell Alley bet Feldspar & Emerald Page 41
0+00	& Logrham And Alley Between Feldspar & Emerald	5.6	72.4	
+50		4.7	73.3	
1+00		3.7	74.3	
TP	10.53	8485	74.32	
+50		9.5	75.4	
+75	& Emerald	9.1	75.8	
2+00		8.6	76.2	
+50		9.3	77.5	
3+00		6.0	78.8	
+50	890000 & Alley E/W	4.96	79.89	on stub
778		5.0	79.8	
776		5.4	79.4	
+80		4.6	80.2	
4+00		4.3	80.5	
+50		3.1	81.7	
5+00		2.5	82.3	
+50		1.9	82.9	
6+00		0.7	84.1	
TP	7.61	9218	84.57	
+50		7.5	84.7	
7+00		6.9	85.3	
+50		6.2	85.9	
8+00		5.7	87.2	
+50		4.8	87.4	

9218

9+00		4.9	87.8	
+20		4.4	87.8	
+25		6.0	86.2	
+27		5.3	86.9	
+40	& Jewell	4.4	87.8	
TP	7.92	8320	11.90	80.28
BM		9.74	75.46	on stub to Jewell Alley bet Feldspar & Emerald
TP	12.24	9312		80.28
9+10		5.7	87.4	
+63		5.2	87.9	
10+00		4.9	88.2	
+50		5.9	87.2	

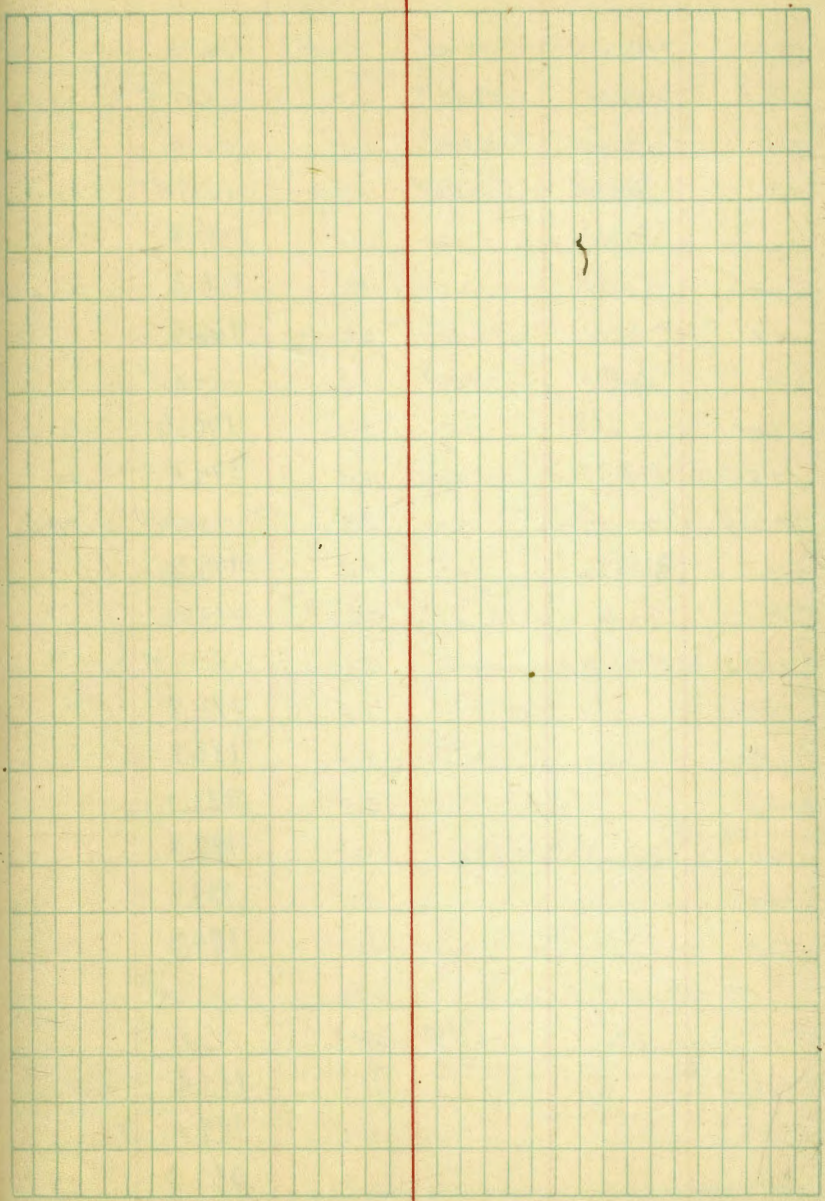


2-19-21

51

93.12

11+00			5.9	87.2
+50			4.6	88.5
12+00			3.5	89.6
+50			1.2	91.9
TP	11.38	104.23 ✓	0.21	92.91 ✓
13+00			2.5	94.7
+50			7.2	97.0
14+00			4.7	99.5
+60			2.0	102.2
+67			4.8	99.4
15+00			4.1	99.8
+50			1.4	99.8
16+00			4.6	99.6
+50			4.9	99.3
17+00			4.8	99.4
+50			4.8	99.4
18+00			4.7	99.5
+50			4.8	99.4
19+00			9.0	99.8
+50	Code Walk		2.98	101.75
20+00			2.6	102.0
+50			1.1	103.1
+80			1.3	102.9
+85			1.9	102.3
21+00	2. Lament		1.7	102.5
TP	11.67	112.07 ✓	1.83	102.90 ✓
Forbick			2.57	111.50 ✓



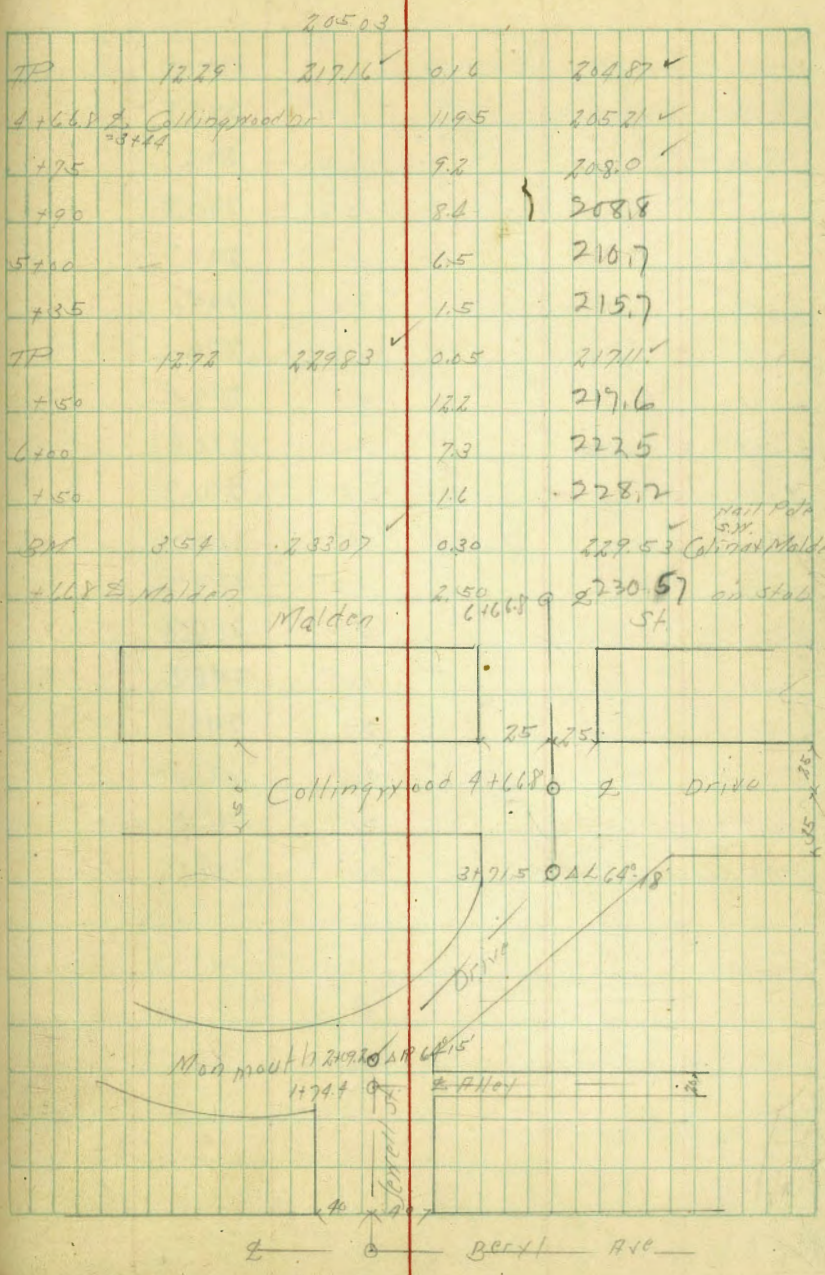
11.59

Center Levels E. Sprill, Monmouth Dr. and Colina St.
 Congress Heights Add
 From E. Beryl to E. Malden

BM	12.88	129.96		116.88
TP	12.82	142.31	0.27	127.49
TP	12.83	154.93	0.21	142.10
TP	12.65	167.49	0.09	154.84
0+00	E. Beryl x Se. Mill		8.0	159.5
+01			7.0	160.5
+10			0.6	166.9
TP	12.48	179.69	0.28	167.21
+100			9.1	170.6
+150			5.3	174.4
+174.4	E. E. W. Riley		2.51	177.12
+200			0.4	179.3
TP	13.00	192.44	0.25	179.44
+109.2	AR 64.15 E. Monmouth		12.13	190.31
+150			8.6	183.8
+160			7.3	183.1
+1700			6.3	186.1
+180			5.0	187.4
+150			2.6	189.8
+160			2.1	190.3
+171.5	AR 64.18 E. Colina		2.11	189.32
TP	12.76	205.03	0.17	192.27
+1700			10.6	194.4
+135			6.0	199.0
+150			2.9	202.1

Nails Pole
 1/2" dia. approach
 1/2" dia. cap x 20"
 Page 15

on stub



Nails Pole
 1/2" dia. approach
 1/2" dia. cap x 20"
 on stub

Server Levels E. Malden, Congress Hgts.

From opposite lat line 100+101 to opp. lat line 112+113

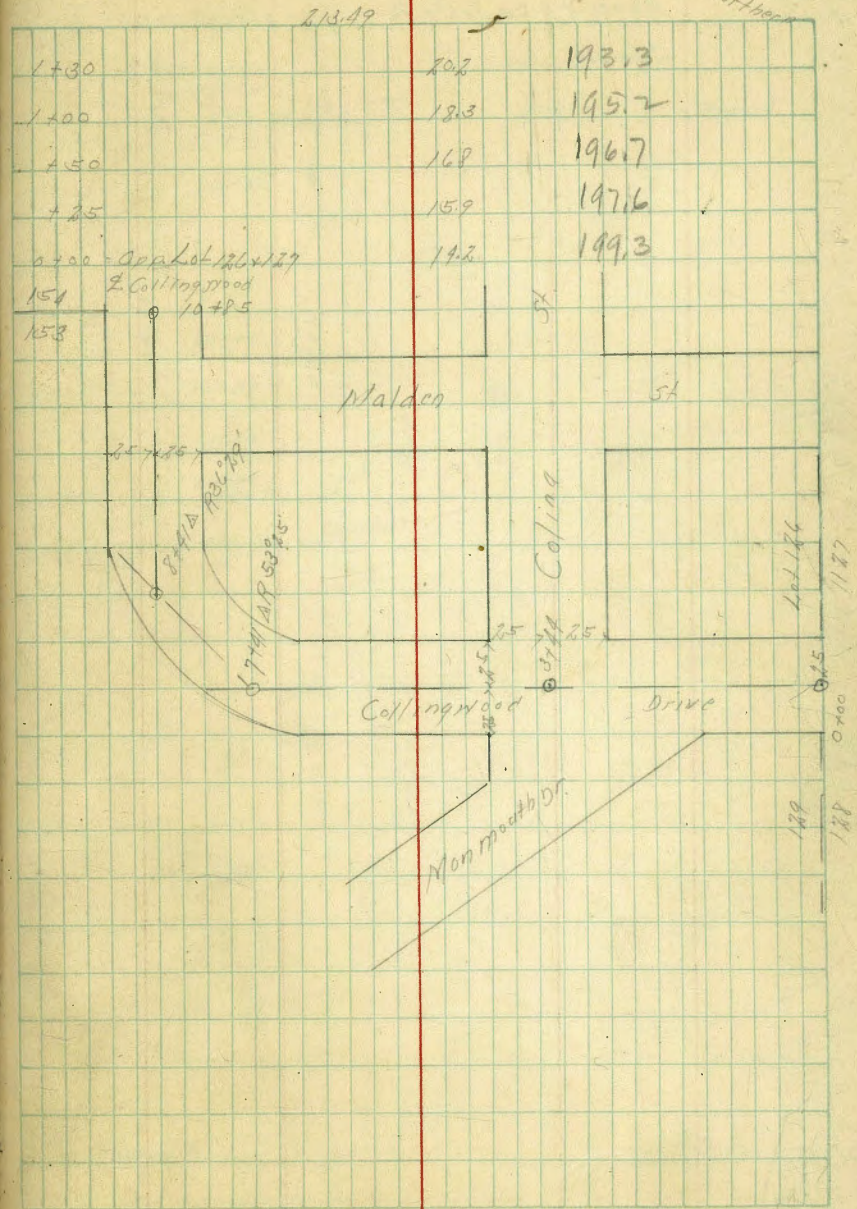
56

BM	3.54	233.07		229.53	SW Col 100+Malden
0.100	8. Malden Opp Lat	100+101 102+107	12.0	221.1	
+50			11.0	222.1	
1+00			10.9	220.8	
+50			10.4	222.7	
2+00			9.0	224.1	
+50			6.5	226.6	
3+00			3.7	229.4	
+44	E. Col 100		2.50	230.57	op. side
4+00			1.4	231.7	
TP	13.00	245.75 ✓	0.32	232.75 ✓	
+50			11.5	231.2	
5+00			8.9	236.8	
+50			5.4	240.3	
6+00			2.6	243.1	
TP	256	248.33 ✓	0.28	245.47 ✓	
+50			2.2	246.1	
+91	= opp. Lat 112+113 114+115		5.2	245.1	

Sever Levels & Collingwood Drive, Congress Hgts.
From opp Lot Line 126+127 to opp Lot Line 153+154

		248.3391 Ford	
10+85	- Opp Lot 153+154	65	241.8
+20		54	242.9
10+00		56	242.7
+80		64	241.9
+50		87	239.6
TP	0.94	236.40	235.46
9+00		24	237.0
8+410	AP 36' 29"	9.35	227.05
8+00		10.8	225.6
TP	1.91	225.00	223.49
7+41.0	AP 53' 25"	4.33	221.07
7+00		4.8	220.6
+50		5.3	220.1
6+00		7.6	217.8
+50		9.3	216.1
5+00		11.1	214.3
+50		12.8	212.6
TP	0.86	213.49	212.63
4+00		4.0	209.5
+25		5.2	208.3
+60		6.8	206.7
+44	to Collins = 116.8	8.21	205.23
3+00		12.7	200.8
+50		15.9	197.6
2+00		17.7	195.8

2-19-26
5:55 in
9:55
Northbrook

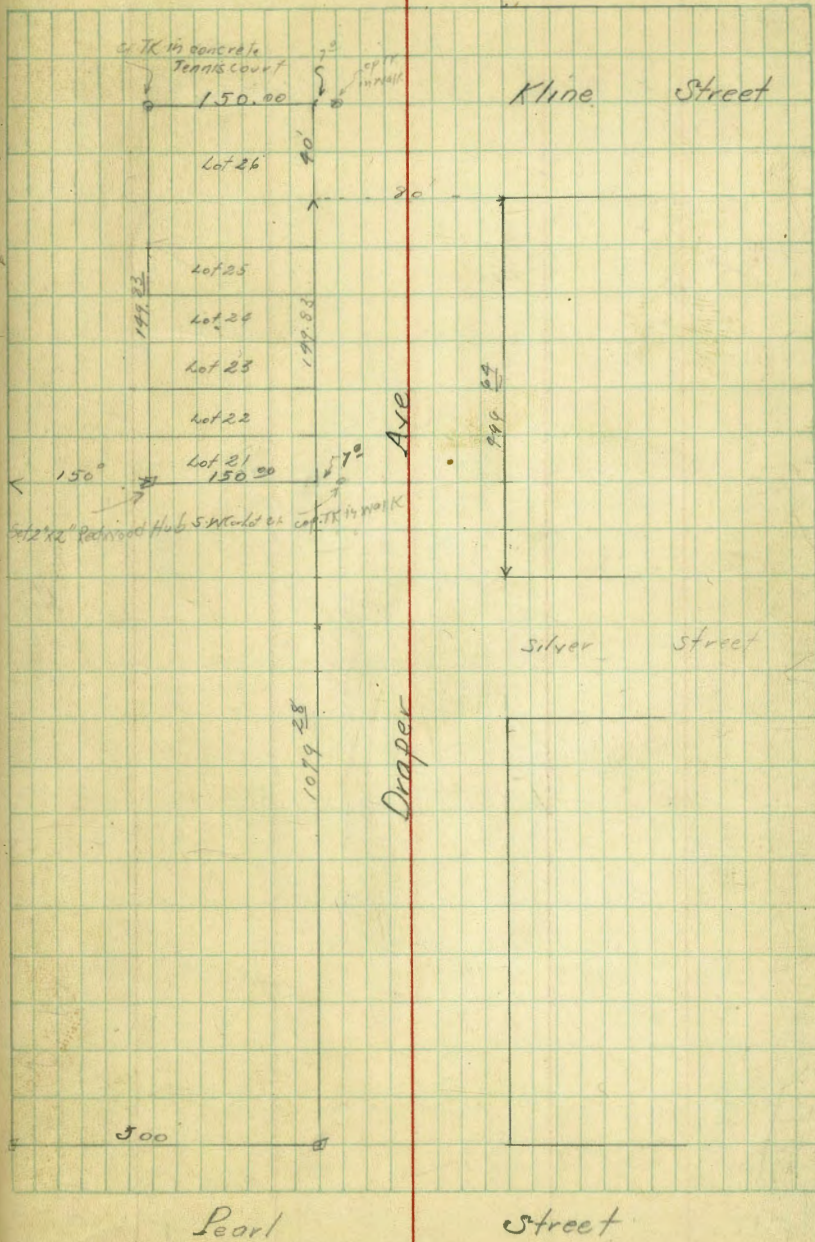


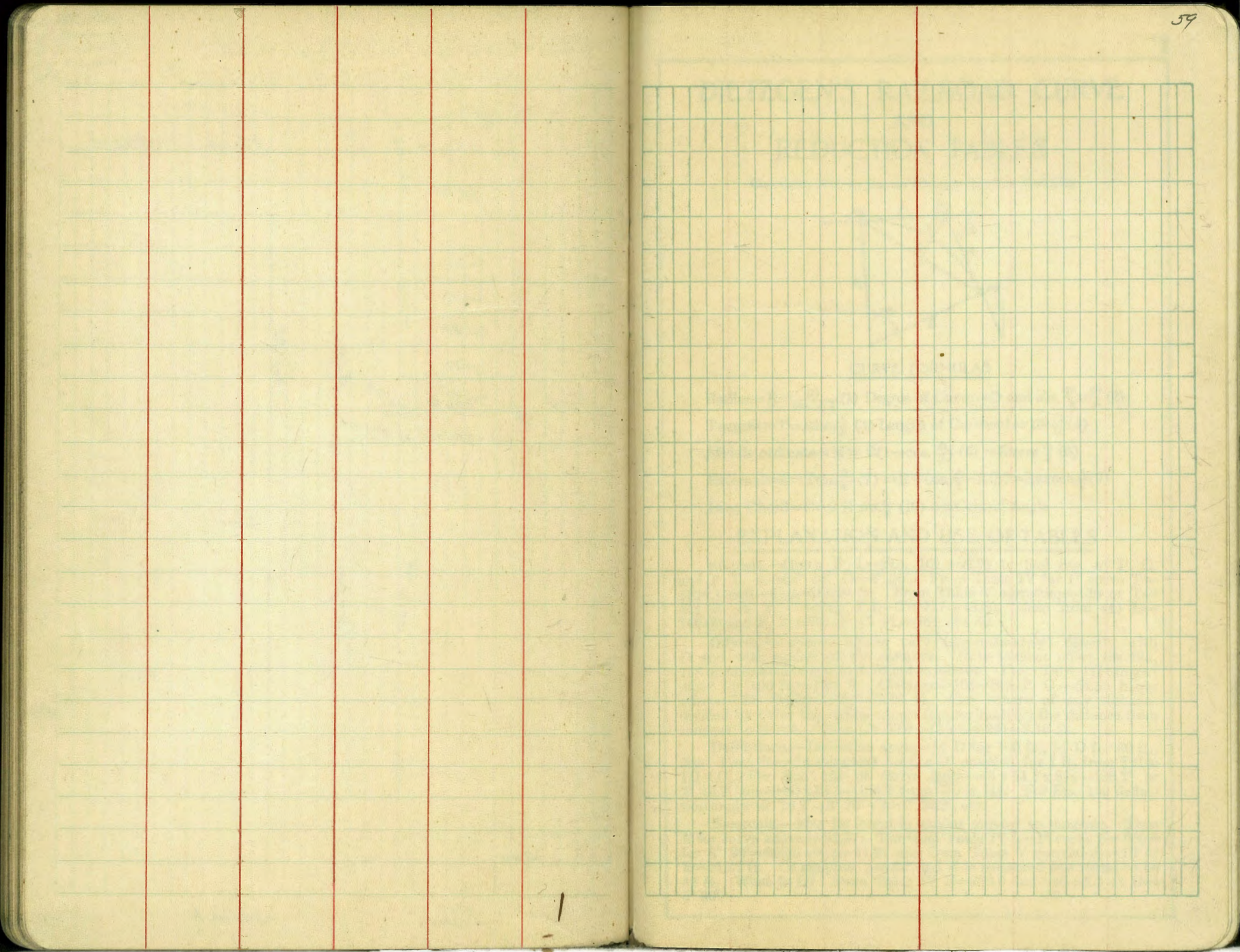
Wm E Bliss
J Duernit
J Jacobson
Ato Kiernan
11/20/28

Survey of lots 21-22-23-24-25-26
Block 19 La Jolla Park for playground

Commission

58





112.11
 114.59
 114.59
 14.17
 100.92
 94.52
 114.59
 12.15
 107.34

114.59
 12.15
 107.34
 137262
 114.59
 12.15
 107.34

50.03
 199.82
 0.21
 149.40
 156.40
 149.90
 199.90
 0.50
 2/29880
 149.40
 298.80
 196.90
 92.80
 149.82

149.90
 149.82
 150.00
 149.81
 1150.03
 149.82

DISTANCES FROM CENTER OF ROADWAY FOR
 CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2.
 For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) * 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.