Level Notes
Pacific Beach
Book No. 1

400

LEVEL BOOK

F.B. 177

177

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 1/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

MICROFILMED DEC 8 1964

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TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

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Pacific Beach

177

Levels.

Book No 1.

Aug. 1904

J. F. Carey.

505
33.98
39.03
3.13
25.90

LOUNGS BOOK STORE 935 5TH ST. SAN DIEGO

INDEX

		Pages
√ Garnet	St. (College Av.)	2 – 16
√ Pendleton (15th)	St. {South of Garnet Ave}	17 – 20
√ Hornblend(e)	St. (California)	21 – 34
√ Bayard (2d.)	St. {South of Garnet Ave}	35 – 37
√ Allison (1st.)	" { " " }	38 – 40
√ Ivy	Ave	41 – 44
√ Grand	"	45 – 58
√ Allison (1st.)	St {North of Garnet Ave}	60 – 61
√ Bayard (2d.)	" "	62 – 63
√ Cass (3d.)	"	64 –
√ Pendleton (15th)	" {North of Garnet}	71 – 72
Massachusetts	Ave	73 –
(Felspar St)		Diamond

G.J. Rinnie Rod Aug 17th 04
G. Lambert Chain

		±	H.I.	Elev
Levels on Garnet St. Beginning on the West				
B.M.	S.E. Cor. Alabama & 17th St.	+2.36	59.94	57.58
Peg		-4.22		
		+3.60	59.32	55.72
Peg		-12.23		
		+0.03	47.12	47.09
0+00	E. line Pendleton			
Peg. Plug	S.E. Cor Pendleton	-11.45		
		+10.53	46.20	35.67
+50				
+80				
1				
+50				
2				
+50				
3				
+50				
4				

Garnet Ave. 2

East line of Pendleton St. ↓ running

N.		C		S.	
Rod	Elev	Rod	Elev	Rod	Elev
N.					
7.5	39.6	9.4	37.7	11.5	35.6
9.6	36.6 ~~35.6~~	11.8	34.4	13.8	32.4
8.8	37.4	9.6	35.6	12.3	33.9
6.8	39.4	8.4	37.8	12.2	34.0
4.6	41.6	7.2	39.0	10.5	35.7
4.0	42.2	5.8	40.4	8.2	38.0
3.0	43.2	4.5	41.7	5.9	40.3
2.6	43.6	3.7	42.5	5.1	41.1
3.7	42.5	5.1	41.1	5.7	40.5
5.4	40.8	5.8	40.4	6.5	39.7

G.J. Rennie Rod
G. Lambert Chain

Aug 17 '04

		±	H.I.	Elev.
4+50			46.20	
5				
+50				
+80	E. line Olney St			
Peg. Plug	S.E. Cor. Olney St.	-3.49 +11.99	54.70	42.71
6				
+50				
+60	W. line Olney St.			
7				
+50				
8				
+50				
9				
+50				
Peg	Quit Aug 17. 04 Began " 18 '04	-0.18 +12.96	67.48	54.52
10				
+50				
11				

Garnet Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
5.4	40.8	5.8	40.4	6.4	39.8
5.0	41.2	5.0	41.2	5.7	40.5
4.0	42.2	4.4	41.8	4.6	41.6
3.2	43.0	3.3	42.9	3.5	42.7
10.9	43.8	11.0	43.7	11.3	43.4
8.7	46.0	9.1	45.6	10.0	44.7
8.2	46.5	8.6	46.1	9.9	44.8
7.3	47.4	7.9	46.8	8.8	45.9
6.2	48.5	6.8	47.9	7.9	46.8
4.9	49.8	5.9	48.8	6.8	47.9
4.4	50.3	5.2	49.5	5.2	49.1
3.5	51.2	4.0	50.7	4.4	50.3
2.0	~~54.7~~ 52.7	2.2	52.5	2.7	52.0
13.0	~~54.5~~	13.0	54.5	13.6	53.9
10.9	~~56.6~~	11.6	55.9	12.8	54.7
10.0	57.5	11.0	56.5	12.2	55.3

G J Rennie Rod
G Lamber & Chain

Aug 18 04

		±	H.I.	Elev
11+50			67.48 ✓	
11+60	E. side Noyes St.			
Plug.	S.E. Cor " "	8.33	8.33	59.15 ✓
12				
+40	W side Noyes St.			
B.M.	Collar foot Iron Post. NW Cor. Noyes St.	2.62	2.62	64.86 ✓
+50				
13				
+50				
14				
+50				
Peg		−6.84 +10.48	71.12	60.64 ✓
15				
+50				
16				
+50				
17				
+39.6	E side Morell St.			

Garnet Ave

4

N. Rod	Elev	C Rod	Elev	S Rod	Elev.
9.1	58.4	10.7	56.8	8.8	58.7
8.5	59.0	10.0	57.5	8.3	59.2
3.9	63.6	4.4	63.1	5.0	62.5
2.5	65.0	3.6	63.9	4.7	62.8
2.3	65.2	3.5	64.0	4.8	62.7
2.4	65.1	3.7	63.8	4.9	62.6
2.6	64.9	4.0	63.5	5.3	62.2
3.0	64.5	4.2	63.3	6.6	60.9
4.7	62.8	6.1	61.4	9.0	58.5
10.5	60.7	12.0	59.2	13.2	58.0
11.1	60.1	12.5	58.7	14.0	57.2
11.4	59.8	14.0	57.2	14.7	56.5
12.7	58.5	12.7	58.5	11.6	59.6
9.1	62.1	7.5	63.5	7.1	64.1
6.0	65.2	5.2	66.0	6.1	65.1

G J Rennie Rod
G Lambert Chain

Aug 18 '04

		±	H.I.	Elev.
17+50			71.12 ✓	
18.				
+19.6	West line Morell St.			
+50				
19				
+50				
B.M.	Spk. S.W. Cor. Morell.	-4.84		66.28
20				
+50				
Peg		-2.56 +1.48	70.04	68.56
21				
+50				
22				
+50				
23				
Peg		-3.46 +6.96	73.54	66.58
+19.	E. Side Lamont St			
+50				

Garnet Ave

5

N Rod	Elev	C Rod	Elev.	S Rod	Elev.
4.7	66.5	5.0	66.2	6.1	65.1
3.5	67.7	4.6	66.6	5.9	65.3
3.3	67.9	4.2	67.0	5.2	66.0
2.9	68.3	4.0	67.2	4.9	66.3
1.4	69.8	3.4	67.8	4.7	66.5
0.7	70.5	2.5	68.7	3.8	67.4
0.6	70.6	2.4	68.8	4.1	67.1
1.2	70.0	2.5	68.7	4.0	67.2
0.4	69.6	1.5	68.5	2.3	67.7
1.2	68.8	2.9	67.1	3.6	66.4
2.0	68.0	3.7	66.3	4.6	65.4
2.0	68.0	3.6	66.4	4.9	65.1
1.3	68.7	3.3	66.7	4.8	65.2
4.4	69.1	6.6	66.9	8.3	65.2
4.1	69.4	6.0	67.5	7.9	65.6

G. Rennie Rod
G. Lambert Chain

Aug 18

			H.I.	Elev.
23+99	W. Side Lamont St.		73.54	
B.M. Iph. Tel. Pole North of N.W. Cor. Lamont St.		-0.76		72.78
24+50				
25				
+50				
26				
Peg.		-7.07 +7.82	74.29	66.47
+50				
27				
+50				
28				
+50				
+99	E Side Kendall St.			
29+50				
+79	W " " "			
B.M. Iph.	Tree Post S E. Cor. Kendall St.	-6.13		68.16
30				
+50				

28+99
29+79

Garnet Ave

6

N. Rod	Elev	C Rod	Elev	S Rod	Elev.
3.9	69.6	5.9	67.6	8.0	65.5
3.6	69.9	5.8	67.7	7.8	65.7
3.5	70.0	5.7	67.8	8.2	65.3
3.8	69.7	6.3	67.2	8.8	64.7
4.7	68.8	7.1	66.6	9.4	64.1
6.0	68.3	8.5	65.8	10.4	63.9
6.3	68.0	8.3	66.0	10.5	63.8
6.4	67.9	8.3	66.0	10.2	64.1
5.9	68.4	7.9	66.4	10.2	64.1
5.3	69.0	7.5	66.8	9.3	65.0
4.2	70.1	6.5	67.8	8.2	66.1
2.4	71.9	4.7	69.6	7.2	67.1
1.6	72.7	4.5	69.8	7.2	67.1
1.2	73.1	4.3	70.0	7.2	67.1
0.6	73.7	4.1	69.6	8.0	66.3

C J Rinnie Rod
G Lambert Chain

Aug 18 04

			±	H.I.	Elev
31				74.29 ✓	
+50					
32					
+50					
33					
+50					
Peg			−7.84 +6.77	73.22	66.45
34					
+50					
+78.4	E. line Jewel St.				
35					
+50					
+58.4	W. " "	"			
B.M. Spk.	Fence Post N.W. Cor. "	"	−2.72		70.50
36					
+50					
37					
+50					

Garnet Ave

7

N. Rod	Elev	C. Rod	Elev	S. Rod	Elev
2.7	71.6	6.0	68.3	9.0	65.3
5.2	69.1	7.7	66.6	9.6	64.7
7.0	67.3	9.3	65.0	10.7	63.6
8.5	65.8	10.0	64.3	11.4	62.9
9.0	65.3	10.4	63.9	11.2	63.1
9.4	64.9	9.1	65.2	7.9	66.4
5.0	68.2	5.8	67.4	6.4	66.8
4.4	68.8	4.8	68.4	5.6	67.6
4.4	68.8	4.7	68.5	5.0	67.2
4.1	69.1	4.2	69.0	4.6	68.6
3.6	69.6	3.7	69.5	4.0	69.2
3.6	69.6	3.8	69.4	4.0	69.2
4.1	69.1	4.4	68.8	4.1	69.1
4.5	68.7	4.6	68.6	4.3	68.9
4.7	68.5	4.7	68.5	4.3	68.9
5.5	67.7	5.1	68.1	4.5	68.8

G J Rennie Rod
G Lambert Chain

Aug 18 '04

		±	H.I.	Elev.
38			73.22	
+50				
39				
+50				
40				
+50				
+58	E. line Broadway			
41				
Pey.	near S.W. Cor.	-10.53		
B.M.	Tel. Post. Broadway	+8.95	71.64	62.69
+50				
+58	W. line Broadway			
42				
+50				
43				
+50				
44				
+50				
45				

Garnet Ave

8

N. Rod	Elev.	C Rod	Elev.	S. Rod	Elev.
6.2	67.0	5.4	67.8	4.9	68.3
7.2	66.0	6.2	67.0	5.3	67.9
8.8	64.4	8.0	65.2	6.5	66.7
9.5	63.7	9.3	62.9	8.7	64.5
10.3	62.9	10.3	61.9	10.0	63.2
10.6	62.6	10.8	61.4	10.6	62.6
10.7	62.5	10.8	61.4	10.7	62.5
10.7	62.5	10.8	61.4	11.1	62.1
9.3	62.3	9.3	62.3	9.9	61.7
9.2	62.4	9.4	62.2	9.9	61.7
8.7	62.9	9.0	62.6	9.2	62.4
7.9	63.6	8.5	63.1	8.7	62.9
7.0	64.6	7.9	63.7	8.1	63.5
5.9	65.6	6.6	65.0	7.3	64.3
4.9	66.6	5.6	66.0	6.0	65.6
4.5	67.1	5.0	66.6	5.6	66.0
4.8	66.8	5.0	66.6	5.5	66.1

G J Rennie Rod
G Lambert Chain

Aug 18 '04

			±	H.I.	Elev
45+50				71.64	
46					
+50					
Peg			-4.07 +3.82	71.39	67.57
+58	E. line Haines St.				
B.M.	Spk. Post. S. E. Cor Haines		-3.53		67.86
47					
+28	W. line Haines St				
+50					
48					
+50					
49					
+50					
50					
+50					
Peg.			-12.69 +0.12	58.82	58.70
51					
+50					

Garnet Ave.

N. Rod	Elev	C Rod	Elev	S Rod	Elev
4.3	67.3	5.1	66.5	5.4	66.2
4.4	67.2	4.9	66.7	5.0	66.6
3.9	67.7	4.2	67.4	4.5	67.1
3.4	68.0	3.7	67.7	4.2	67.2
2.5	68.9	3.2	68.2	3.6	67.8
2.4	69.0	3.0	68.4	3.4	68.0
2.4	69.0	3.1	68.3	3.5	67.9
2.5	68.9	3.3	68.1	4.0	67.4
3.5	67.9	4.3	67.1	5.1	66.3
4.4	67.0	5.8	65.6	6.6	64.8
6.4	65.0	7.4	64.0	8.3	63.1
8.5	62.9	9.5	61.9	10.6	60.8
10.5	60.9	11.4	60.0	12.4	59.0
0.1	58.7	1.0	57.8	1.6	57.2
1.7	57.1	2.6	56.2	3.3	55.5

G.J. Rennie Rod
G. Lambert Chain

Aug. 18 '04

		±	H.I.	Elev.
52			58.82	
+28	E. line Gresham			
+50				
53				
+08	W. " "			
+50				
+54.7	⊙ Hub.	-7.90		50.92
54		"		
+50				
55				
+50				
		-10.05		
Rey.		+1.37	50.14	48.77
56				
+50				
57				
+50				
58				
+24.5	E. line Tamarack St.			

Garnet Ave

10

N. Rod	N. Elev	C Rod	C Elev	S Rod	S Elev
3.2	55.6	4.0	54.8	5.1	53.7
4.0	54.8	4.9	53.9	5.5	53.3
4.7	54.1	5.3	53.5	6.0	52.8
5.7	53.1	6.5	52.3	6.9	51.9
6.2	52.6	6.8	52.0	7.0	51.8
7.2	51.6	7.9	50.9	8.6	50.2
7.5	51.3	8.4	50.4	9.0	49.8
8.1	50.9	8.7	50.1	9.4	49.4
8.7	50.1	9.2	49.6	9.7	49.1
9.3	49.5	9.5	49.3	9.9	48.9
1.4	48.7	1.3	49.8	1.8	48.3
2.2	47.9	2.4	47.7	2.4	47.7
2.1	48.0	2.7	47.4	3.0	47.1
2.6	47.5	3.2	46.9	3.7	46.4
3.2	46.9	3.8	46.3	4.9	45.2
3.4	46.7	4.0	46.1	4.3	45.8

G J Rennie Rod
G Lambert Chain

Aug 18 '04

			±	H.I.	Elev.
58+50				50.14	
B.M. Plug S.W. Cor. Fannel St.			-5.53		44.61
+94.5	W. line	" "			
59					
+50					
60					
+50					
61					
+50					
Peg			-6.18 +0.65	44.61	43.96
62					
+50					
63					
+50					
+93.5	E. line	Evarts St.			
B.M. Plug S.E. Cor.			-5.11		39.50
64					
+50					

Garnet Ave

N. Rod	N. Elev	C Rod	C Elev	S Rod	S Elev
3.7	46.4	4.4	45.7	4.8	45.3
4.3	45.8	5.0	45.1	5.5	44.6
4.3	45.8	5.1	45.0	5.6	44.5
4.7	45.4	5.4	44.7	6.3	43.8
5.4	44.7	5.9	44.2	6.6	43.5
5.4	44.7	6.2	43.9	6.7	43.4
5.7	44.4	6.4	43.7	7.0	43.1
6.2	43.9	6.5	43.6	7.3	42.8
1.4	43.2	1.9	42.7	2.2	42.4
1.9	42.7	2.6	42.0	3.1	41.5
2.3	42.3	3.0	41.6	3.8	40.8
3.0	41.6	3.7	40.9	4.5	40.1
3.6	41.0	4.5	40.1	5.1	39.5
3.7	40.9	4.6	40.0	5.2	39.4
4.2	40.4	5.0	39.6	6.0	38.6

G J Rennie Rod
G Lambert Chain

Aug 18 '04

			±	H.I.	Elev.
+73.5	west line	Evarts		44.61 ✓	
65					
+50					
66					
+50					
67					
+50					
68					
Ply			−10.21 +2.83	37.23	34.40
+50					
69					
+50					
+72.2	Elm	Dawes St			
70					
+50					
+52.2 ⊙	west line	Dawes St.	−4.93		32.30
71					
+50					

Garnet Ave

12

N. Rod	N. Elev.	C Rod	C Elev	S Rod	S Elev
4.8	39.8	5.8	38.8	6.7	37.9
5.2	39.4	6.1	38.5	7.0	37.6
5.7	38.9	6.7	37.9	7.6	37.0
6.6	38.0	7.5	37.1	8.3	36.3
7.0	37.6	7.9	36.7	8.7	35.9
7.5	37.1	8.2	36.4	9.2	35.4
8.0	36.6	8.9	35.7	9.7	34.9
8.6	36.0	9.4	35.2	10.2	34.4
1.9	35.3	2.7	34.5	3.3	33.9
2.6	34.6	3.4	33.8	4.2	33.0
3.0	34.2	4.0	33.2	4.9	32.3
3.1	34.1	4.1	33.1	5.1	32.1
3.4	33.8	4.1	33.1	5.4	31.8
4.0	33.2	5.0	32.2	6.0	31.2
4.0	33.2	4.93	32.3	~~6.1~~	31.1
4.9	32.8	5.6	31.6	6.6	30.6
5.6	31.6	6.3	30.9	7.2	30.0

G J Rennie Rod
G Lambert Chain

Aug 18 04

		±	H.I.	Elev.
72			37.23	
+50				
73				
Peg.		-6.81 +1.37	31.79	30.42
+50				
74				
+50				
75				
+50				
+52.5	E. Side Cars St.			
76				
+32.50	W. " " "	-4.88		27.91
+50				
77				
+50				
78				
+50				
79				

Garnet Ave

N. Rod	N. Elev	C Rod	C Elev	S Rod	S Elev
6.0	31.2	6.8	30.4	7.5	29.7
6.2	31.0	7.0	30.2	7.7	29.5
6.4	30.8	7.2	30.0	8.0	29.2
1.4	30.4	2.2	29.6	2.9	28.9
1.8	30.0	2.6	29.2	3.3	28.5
2.4	29.4	2.7	29.1	3.5	28.3
2.8	29.0	3.3	28.5	3.9	27.9
3.3	28.5	4.0	27.8	4.4	27.4
3.4	28.4	4.0	27.8	4.4	27.4
4.2	27.6	4.6	27.2	5.1	26.7
4.5	27.3	5.1	26.7	5.4	26.4
5.0	26.8	5.4	26.4	5.9	25.9
5.5	26.3	6.0	25.8	6.5	25.3
5.8	26.0	6.3	25.5	6.8	25.0
6.2	25.6	6.8	25.0	7.3	24.5
6.5	25.3	6.9	24.9	7.9	23.9
7.4	24.4	7.6	24.2	8.0	23.8

G.J. Rennie Rod
G. Lambert Chain

Aug 18 04

		±	H.I.	Elev
			31.79	
		-7.66		
Peg		+4.08	28.21	24.13
79+50				
80				
+50				
81				
+30.6	E. line Byard St.			
+50				
82				
+10.6	W. " "			
BM. Plug N.W. Cor.	" "	-7.27		20.94
		-2.75		
Peg		+11.90	37.36	25.46
Peg	Quit Aug 18, 04	-0.87		36.37 (OK) 36.49
Plug N.W. Cor. Byard ~~Site~~		+0.45	21.39	20.94
+50	Aug 20 04			
83				
+50				
84				
+50				

Garnet Ave

14

N. Rod	N. Elev.	℄ Rod	℄ Elev.	S Rod	S Elev.
4.1	24.1	4.7	23.5	5.0	23.2
4.7	23.5	5.1	23.1	5.7	22.5
5.2	23.0	5.8	22.4	6.4	21.8
5.9	22.3	6.5	21.7	6.9	21.3
6.1	22.1	6.7	21.5	7.2	21.0
6.4	21.8	7.0	21.2	7.5	20.7
7.1	21.1	7.2	21.0	8.2	20.0
7.3	20.9	7.7	20.5	8.4	19.8
0.8	20.6	1.2	20.2	1.9	19.5
1.5	19.9	1.8	19.6	2.4	19.0
1.9	19.5	2.6	18.8	3.0	18.4
2.8	18.6	3.3	18.1	3.9	17.5
4.0	17.4	4.1	17.3	4.7	16.7

E.J. Rennie Rod
G. Lambert Chain

Aug. 20 '04

		±	H.I.	Elev.
85			21.39	
+50				
86.				
+50				
87				
+9.5	E. line Allison St.			
+48.8	Cent. Motor line	Top of Iron		
+50	Top of Iron -			
+895	W. Line Allison St			
B.M. + Reg.	Tel. Pole near S.W. Cor. "	−6.70 " +5.92	20.61	14.69
88				
+50				
89				
+50				
90				
+50				
91				

Garnet Ave

15

N. Rod	N. Elev	C Rod	C Elev	S. Rod	S. Elev.
5.6	15.8	5.1	16.3	5.8	15.6
6.3	15.1	7.8	13.6	8.9	12.5
8.4	13.0	9.6	11.8	9.7	11.7
8.6	12.8	8.4	13.0	8.3	13.1
7.0	14.4	7.0	14.4	7.6	13.8
7.2	14.2	7.4	14.0	7.5	13.9
6.3	15.1	6.8	14.6	7.2	14.2
6.3	15.1	6.8	14.6	7.2	14.2
6.4	15.0	6.9	14.5	7.6	13.8
5.4	15.2	6.3	14.3	6.9	13.7
5.4	15.2	5.8	14.8	6.4	14.2
5.0	15.6	5.6	15.0	5.8	14.8
4.4	16.2	4.6	16.0	5.8	14.8
3.7	16.9	4.7	15.9	4.9	15.7
4.1	16.5	4.7	15.9	5.0	15.6
4.0	16.6	4.9	15.7	5.3	15.3

G J Rennie Rod Aug 20 '04

G Lambert Chain		±	H.I.	Elev
91+50			21.61	
+85	Edge of Bank			

Garnet Ave

N.		C		S	
Rod	Elev	Rod	Elev	Rod	Elev
3.5	17.1	3.9	16.7	5.4	15.2
3.8	16.8	4.5	16.1	5.1	15.5

12.07 P.M.

Levels on Pendleton St.
Beginning on the So. line of Garnet St. & running South.

G.J. Rennie Rod
G. Lambert Chain

Aug. 19'04

	±	H.I.	Elev.
B.M. Plug S.E. Cor. Garnet	-0.07	35.74	35.67 /
O. So. line Garnet St.			
+50			
+70.8 N.E. Cor. Grand			
+89.7 N.W. " "			
1			
+50			
+50.5 Cent. Motor line Back of Rail			
2			
B.M. Tel Pole West side St.	-6.30		29.44
+0.59 S.E. Cor Grand			
+28.9 S.W. Cor. Grand			
+50			
B.M. Peg N.W. Cor. Hornblend St.	-10.47		
	+0.97	26.24	25.27
+76.5 N. Side Hornblend "			
3			

Pendleton St.

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
0.1	35.6	3.2	32.5	1.9	33.8
2.9	32.8	5.3	30.4	5.4	30.3
4.7	31.0				
				5.9	29.8
6.5	29.2	6.4	29.3	6.0	29.7
7.2	28.5	5.5	30.2	6.4	29.3
		5.6	30.1		
10.4	26.3	8.8	26.9	7.9	27.8
11.8	23.9			9.6	26.1
12.5	23.2	11.3	24.4	10.0	25.7 ~~25.7~~
3.0	33.2			1.0	25.2
3.1	28.1	2.3	25.9	1.3	24.9

G J Rennie Rod
G Lambert Chain

Aug 19 04

	±	H.I.	Elev
3+50		26.24	
+56.5 So. Side Hornblend St.			
4			
+50			
5			
+50			
6			
+26 N. side Ivy Ave			
+50			
7			
Pey BM. S.W. Cor " "	-9.85 +0.26	16.65	16.39
+51 So line " "			
8			
+50			
9			
+50			
10			
+20.8 N. Side Thomas.			

Pendleton St

E Rod	E Elev	C Rod	C Elev	W. Rod	W. Elev
3.9	22.3	3.0	23.2	1.6	24.6
4.2	22.0			1.5	24.7
4.5	21.7	3.2	23.0	1.8	24.4
5.5	20.7	4.2	22.0	3.6	22.6
6.5	19.7	5.7	20.5	5.3	20.9
8.1	18.1	7.1	19.1	6.2	20.0
9.0	17.2	8.0	18.2	7.1	19.1
9.1 ~~7.7~~	17.1			7.7 ~~9.1~~	18.5
9.9 ~~8.1~~	16.3	9.0	17.2	8.1 ~~9.9~~	18.1
11.2	15.0	10.2	16.0	9.5	16.7
3.0	13.7	1.5	15.2	0.3	16.4
2.6	14.1	2.1	14.6	0.8	15.9
4.0	12.7	3.4	13.4	2.5	14.2
5.5	11.2	4.5	12.2	4.1	12.6
6.9	9.8	6.0	10.7	5.5	11.2
8.3	8.4	7.9	8.8	7.2	9.5
9.0	7.7			7.7	9.0

E.J. Rennie Rod
E. Lambert Chain

Aug 19

	±	H.I.	Elev
10+50		16.65	
Peg	−10.89		
B.M. S.W. Cor. Thomas St	+0.21	5.97	5.76
11+00.5 So. Side " "			
+50			
12			
+50			
13			
+50			
+70.5 N. Side Reid St			
14			
+50.5 So " " "			
B.M. S.W. Cor. " "	−6.24		−0.27
15			
Peg	−6.85		
	+4.87	3.99	−0.88
+50			
16			
+50			
17			

Pendleton St

E Rod	E Elev.	C Rod	C Elev	W Rod	W Elev
9.7	7.0	9.5	7.2	8.8	7.9
0.5	5.5	0.6	5.4	0.2	5.8
2.7	3.8	3.0	3.0	2.4	3.6
4.4	1.6	4.0	2.0	3.3	2.7
5.6	0.4	5.5	0.5	4.6	1.4
5.7	0.3	5.9	0.1	5.8	0.2
5.9	0.1	6.2	−0.2	6.1	−0.1
5.6	0.4			6.0	0.0
5.9	0.1	6.2	−0.2	6.1	−0.1
6.4	−0.4	6.2	−0.2	6.2	−0.2
6.3	−0.3	6.6	−0.6	6.7	−0.7
4.4	−0.4	5.0	−1.0	4.9	−0.9
4.4	−0.4	4.7	−0.7	5.1	−1.1
4.1	−0.7	4.5	−0.5	4.4	−0.4
4.9	−0.9	4.9	−0.9	4.8	−0.8

G.J. Rennie Rod — Aug. 19 '04
G. Lambert Chain

		±	H.I.	Elev.
17+20	N. side Oliver St.		3.99	
+50				
18	So " " "			
B.M. Plug S.W. Cor.	" "	-5.07		-1.08
+50				
19				
+50				
20				
+49.5	N. line Pacific Ave			
B.M. N.W. Cor.	" "	-5.42		-1.43

Pendleton St.

E Rod	Elev	C Rod	Elev	W Rod	Elev
4.9	-0.9			4.7	-0.7
4.8	-0.8	4.8	-0.8	4.8	-0.8
4.6	-0.6	4.6	-0.6	5.1	-1.1
L					
4.7	-0.7	4.7	-0.7	4.9	-0.9
4.6	-0.6	4.7	-0.7	4.7	-0.7
5.3	-1.3	4.6	-0.6	4.8	-0.8
5.2	-1.2	5.1	-1.1	4.6	-0.6
5.0	-1.0	5.6	-1.6	5.4	-1.4

Levels on Hornblend St. Beginning on the east line of Pendleton & running West.

G J Rennie Rod
G Lambert Chain

Aug. 19 '04

		±	H.I.	Elev
BM.	N.W. Cor. Pendleton	+9.32	34.59	25.27
0	E. line Pendleton St			
+50				
+80	W. " " "			
1				
+50				
2				
+50				
+84	Intersect So. line Grand Ave. & N. line Hornblend			
3				
+50				
4				
+50				
Pcg.		−0.64 +10.80	44.75	33.95

Hornblend Ave

N Rod	N Elev	C Rod	C Elev	S. Rod	S. Elev
11.4	23.2	11.7	22.9	12.6	22.0
10.3	24.3	10.7	23.9	11.0	23.6
9.3	25.3	9.8	~~25.8~~ 24.8	9.9	~~23.7~~ 24.7
8.7	25.9	8.9	25.7	9.1	25.5
7.3	27.3	7.3	27.3	8.0	26.6
5.7	28.9	5.8	~~29.9~~ 28.8	6.2	28.4
4.2	30.4	4.4	30.2	4.4	30.2
3.3	31.3				
3.0	31.6	3.6	31.0	3.0	31.6
1.6	33.0	2.2	32.4	3.0	31.6
0.9	33.7	1.5	33.1	2.5	32.1
0.0	34.6	1.1	33.5	1.5	33.1

G J Runnie Rod
G Lambert Chain

Aug 19 04

			±	H.I.	Elev.
5					
+50				44.75 ✓	
+80	E. line Olney St.				
Plug	S.E. Cor.	" "	-8.25		
6					
+50					
+60	W. line	" "			
7					
B.M. Spk	Tel. Pole 40' W.	" "	-3.77		40.98
+50					
8					
+50					
Peg			-0.85 +12.08	55.98	43.90
9					
+50					
10					
+50					
11					

Hornblend Ave

N. Rod	Elev	C Rod	Elev	S. Rod	Elev
8.7	36.1	10.0	34.8	10.5	34.3
7.9	36.9	8.8	36.0	9.3	35.5
6.8	38.0	8.4	36.4	8.2	36.6
6.7	38.1	7.8	37.0	7.6	37.2
5.6	39.2	6.4	38.4	6.8	38.0
5.4	39.4	6.0	38.8	6.7	38.1
4.4	40.4	5.0	39.8	5.6	39.2
3.7	41.1 ~~3.1~~	Base of Rail motor line 4.3	40.5	4.2	40.6
2.1	42.7	3.8	41.0	3.1	41.7
0.7	44.1	0.7	44.1	1.5	43.3
8.9	47.1	11.4	44.6	13.9	42.1
8.2	47.8	10.5	45.5	12.5 Top Ties	motor line 43.5
7.3	48.7	9.5	46.5	9.2	46.8
4.7	57.3	7.4	48.6	8.8	47.2
3.2	52.8	4.6	51.4	9.2	47.8

G.L. Rennie Rod
G. Lambert Chain

Aug. 19 04

		±	H.I.	Elev
11+50			55.98	
+59.6	E. line Noyes St.			
12				
BM. Spk.	Tel. Pole N.W. Cor. 11	-2.50		53.48
+39.6	W. line Noyes St.			
+50				
13				
+50				
		-7.76		
Pey		+7.69	55.91	48.22
14				
+50				
15				
+50				
16				
+50				
17				
+39.6	E. line Morell St.			
+50				

Hornblend Ave

N Rod	N Elev	C Rod	C Elev	S. Rod	S. Elev
1.4	54.6	3.0	53.0	8.2	47.8
1.3	54.7	2.8	53.2	8.0	48.0
1.9	54.1	3.6	52.4	7.8	48.2
2.1	53.9	3.8	52.2	5.8	50.2
2.3	53.7	4.0	52.0	5.8	50.2
3.8	52.2	5.9	50.1	8.9	47.1
6.9	49.1	8.4	47.6	11.1	44.9
8.4	47.5	9.8	46.1	11.3	44.6
8.2	47.7	10.0	45.9	11.1	44.8
8.0	47.9	9.6	46.3	10.7	45.2
7.7	48.2	8.9	47.0	9.5	46.4
4.7	50.2	7.6	48.3	8.4	47.5
2.2	53.7	5.5	50.4	6.6	49.3
0.4	55.5	3.2	52.7	4.6	51.3
0.1	55.8	1.9	54.0	4.0	51.9
0.2	55.7	1.8	54.1	3.8	52.1

G J Rennie Rod
G Lambert Chain

Aug 19 04

		±	H.I.	Elev.
Peg + B.M.	SPK Tel. Pole Near N.E. Cor Morell St.	-0.35 +3.78	55.91 59.34	55.56
18				
+19.6	W. Side Morrell St.			
+50				
19				
+50				
20				
+50				
21				
+50				
Peg		-2.10 +6.66	63.90	57.24
22				
+50				
23				
+19	E. line Lamont St			
B.M.	SPK Near N.E. Cor. Lamont St.	-1.81		62.09
+50				
+99	W. line Lamont St.			

Hornblend Ave

N Rod	N Elev	C Rod	C Elev	S. Rod	S. Elev
3.6	55.7	5.1	54.2	6.8	52.5
3.2	56.1	5.1	54.2	6.4	52.9
3.1	56.2	4.8	54.5	6.3	53.0
2.9	56.4	4.6	54.7	6.4	52.9
3.2	56.1	4.5	54.8	5.8	53.5
2.9	56.4	4.3	55.0	5.6	53.7
2.7	56.6	4.3	55.0	5.8	53.5
1.7	57.6	3.4	55.9	4.4	54.9
1.0	58.3	2.4	54.9	3.7	55.6
5.9	58.0	6.0	57.9	7.1	56.8
3.8	60.1	4.6	59.3	5.7	58.2
2.9	61.0	2.9	61.0	3.2	60.7
2.5	61.4	1.9	62.0	2.7	61.2
2.6	61.3	2.3	61.6	2.1	61.8
3.7	60.2	4.1	59.8	2.6	61.3

G J Rennie Rod
E Lambert Chain

Aug 19 04

			I	H.I.	Elev
24+50				63.90 ✓	
25					
+50					
26					
+50					
27					
Pey.			− 10.00 + 4.92	58.82	53.90
+50					
28					
+50					
+99	E. line Kendall St				
29+50					
+79	W. "	"	"		
30					
+50					
31					
+50					
32					

Hornblend Ave

N Rod	N Elev	C Rod	C Elev.	S Rod	S Elev
6.0	57.9	6.2	57.7	5.7	58.2
6.7	57.2	7.2	56.7	6.8	57.1
7.7	56.2	8.2	55.7	7.9	56.0
8.1	55.8	8.9	55.0	8.5	55.4
8.7	55.2	9.5	54.5	9.2	54.7
9.1	54.8	9.9	54.0	9.8	54.1
4.0	54.8	5.2	53.6	5.0	53.8
4.1	54.7	5.3	53.5	5.3	53.5
3.9	54.9	5.2	53.6	5.6	53.2
3.6	55.2	5.3	53.5	5.8	53.0
4.0	54.8	5.5	53.3	6.0	52.8
4.1	54.7	5.4	53.4	6.4	52.4
4.1	54.7	5.4	53.4	6.3	52.5
4.3	54.5	5.4	53.4	6.0	52.8
4.3	54.5	5.3	53.5	5.7	53.1
4.0	54.8	5.0	53.8	5.5	53.3
3.5	55.3	4.4	53.4	5.5	53.3

G J Kennie Rod
G Lambert Chain

Aug 19 '04

		±	H.I.	Elev
		− 4.46	58.82	
Bey.		+11.65	66.01	54.36
32+50				
33				
+50				
34				
+50				
+79	E. Side Jewel St.			
35				
+50				
+58	W. " " "			
36				
B.M.	Spk. Hitching Post W. of N.W. Cor. Jewel St.	−3.43		62.58
+50				
37				
		−0.32		
Bey		+3.81	69.50	65.69
+50				
38				
+50				

Hornblend Ave

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
9.8	56.2	10.7	55.3	11.2	54.8
8.3	57.7	9.5	56.5	9.9	56.1
7.4	58.6	8.3	57.7	8.8	57.2
6.2	59.8	7.0	59.0	7.9	58.1
5.0	61.0	6.1	59.9	6.7	59.3
4.3	61.7	5.1	60.9	4.6	59.4
4.0	62.0	5.4	60.6	6.1	59.9
3.4	62.6	4.9	61.1	5.6	60.4
3.2	62.8	4.9	61.1	5.9	60.1
2.9	63.1	4.3	61.5	5.2	60.8
2.7	63.3	3.9	62.1	4.6	61.4
1.3	64.7	2.8	63.2	3.7	62.3
3.2	66.3	4.4	65.1	5.6	63.9
1.5	68.0	3.0	66.5	4.3	65.5
0.6	68.9	2.1	67.4	3.4	66.1

E. Rennie Rod
G. Lambert Chain

Aug. 19 04

		±	H.I.	Elev
39			69.50 ✓	
+50				
40				
+50				
+58	E. line Broadway			
41				
+58	W " "			
B.M. bpk	Tel. Post. Near S.W. Cor. Broadway	-5.95		63.55
42				
+50				
43				
+50				
Peg		-8.37 +6.71	67.84	61.13
44				
+50				
45				
+50				
46				

Hornblend Ave

27

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
1.1	68.4	2.4	67.1	3.8	65.7
2.0	67.5	3.2	66.3	4.8	64.7
3.1	66.4	4.2	65.3	5.7	63.9
3.8	65.7	5.4	64.1	6.4	63.1
4.0	65.5	5.6	63.9	6.4	63.1
5.0	64.5	5.4	64.1	6.2	63.8
6.0	63.5	6.0	63.5	6.3	63.2
7.5	62.0	6.7	62.8	6.3	63.2
8.9	60.6	8.7	60.8	6.6	62.9
8.4	61.1	8.8	60.7	7.7	61.8
8.3	61.2	8.4	61.1	8.2	61.3
5.9	61.9	6.7	61.1	7.2	60.6
5.8	62.0	6.6	61.2	7.3	60.5
5.7	62.1	6.5	61.3	7.2	60.6
5.1	62.7	5.7	62.1	6.5	61.3
4.4	63.4	5.1	62.7	5.9	61.9

G.J. Summit Rd
G. Lambert Chain

Aug 19. 04

		±	H.I.	Elev
46+58	E. line Haines St.		67.84 ✓	
47				
+38	W. " " "			
BM.	Plug S.W. Cor " "	-4.29		63.55
+50				
48				
+50				
49				
+50				
50				
Pg		-12.30 +0.95	56.49	55.54
+50				
51				
+50				
52				
+37.5	E. line Graham St			
+50				
53				

Hornblend Ave

N		C		S	
Rod	Elev	Rod	Elev	Rod	Elev
3.7	64.1	4.5	63.3	4.8	63.0
3.1	64.7	3.9	63.9	4.6	63.2
4.3	63.5			3.4	64.4
4.6	63.2	4.1	63.7	3.3	64.5
4.0	63.8	4.8	63.0	5.4	62.4
5.4	62.4	5.8	62.0	6.4	61.4
6.8	61.0	7.5	60.3	8.1	59.7
9.1	58.7	9.9	57.9	10.4	57.4
12.0	55.8	12.5	55.3	13.2	54.6
2.7	63.8	3.1	63.4	4.1	62.4
4.4	62.1	5.0	61.5	5.8	60.7
6.0	~~60.5~~	6.7	49.8	7.2	49.3
7.2	~~49.3~~ 59.3	7.5	~~50.0~~ 49.0	7.8	48.7
7.7	48.8	6.5	50.0	8.7	47.8
7.7	48.8	7.6	48.9	8.7	47.8
8.6	47.9	9.4	47.1	9.8	46.7

G.J. Rennie Rod Aug. 19. 04
G. Lambert Chain

		+	H.I.	Elev
53+17.5	W. line Gresham St.		56.49	
B.M. Peg	Plug S.W. Cor. " "	−10.14 +1.40	47.75	46.35
+50				
54				
+50				
55				
+50				
56				
+50				
57				
+50				
58				
+ 17.0	E. line Tannel St.			
+50				
+97.0	W " " "			
B.M. Peg	S.W. Cor. " "	−6.38 +0.91	42.28	41.37
59				
+50				

Hornblend Ave

29

N Rod	Tales	C Rod	Tales	S Rod	Tales
9.0	47.5	9.9	46.6	10.2	45.3
Quit Aug 19 04					
Began " 20 "					
0.9	46.9	2.1	45.7	2.2	45.6
2.6	45.2	3.2	44.6	3.7	44.1
3.3	44.5	3.7	44.1	4.5	43.3
3.5	44.3	4.2	43.6	4.9	42.9
3.8	44.0	4.5	43.3	5.4	42.4
3.9	43.9	4.7	43.1	5.7	42.1
4.2	43.6	4.8	43.0	5.8	42.0
4.3	43.5	5.0	42.8	5.9	41.9
4.3	43.5	5.1	42.7	5.8	42.0
4.6	43.2	5.3	42.5	6.0	41.8
4.8	43.0	5.4	42.4	5.8	42.0
5.0	42.8	5.4	42.4	6.3	41.5
5.5	42.3	5.9	41.9	6.4	41.4
0.0	42.8	0.5	41.8	0.9	41.4
0.6	41.7	1.0	41.3	1.5	40.8

G J Rennie Rod
G Lambert Chain

Aug. 20

			I	H.I.	Elev.
60				42.28	
+50					
61					
+50					
62					
+50					
63					
+50					
+97.0	E. line	Evarts St			
64					
+50					
+77.0	W "	" "			
Peg + B.M.	S.W. Cor.	" "	-10.02 + 1.85	34.11	32.26
65					
+50					
66					
+50					
67					

Hornblend Ave

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
1.1	41.2	1.5	40.8	1.5	40.8
1.7	40.4	1.8	4.05	2.3	40.0
2.6	39.7	2.4	39.9	2.8	39.5
3.2	39.1	3.6	38.7	3.7	38.6
4.2	38.1	4.4	37.9	4.5	37.8
4.6	37.7	5.2	37.1	5.3	37.0
5.5	36.8	6.4	35.9	6.3	36.0
6.4	35.9	7.0	35.3	7.2	35.1
7.5	34.8	8.2	34.1	8.4	33.9
7.5	34.8	8.2	34.1	8.5	33.8
8.0	34.3	9.2	33.1	9.7	32.6
9.1	33.2	9.9	32.4	10.0	32.3
1.4	32.7	2.2	31.9	2.6	31.5
1.3	32.8	2.3	31.8	2.8	31.3
2.0	32.1	2.9	31.2	3.0	31.1
2.9	31.2	3.5	30.6	3.6	30.5
3.5	30.6	4.1	30.0	4.2	29.9

G.J. Rennie Rod
G. Lambert Chain

Aug. 20, 04

		±	H.I.	Elev
67+50			34.11	
68				
+50				
69				
+50				
+75.5	E. line Dawes St.			
70				
+55.5	W. " " "			
BM. & Pg. S.W. Cor.	" "	-9.50 +3.25	27.86	24.61
71				
+50				
72				
+50				
73				
+50				
74				
+50				
75				

Hornblend Ave

N Rod	Elev	C Rod	Elev	S Rod	Elev
4.1	30.0	4.7	29.4	5.0	29.1
4.7	29.4	5.4	28.7	5.8	28.3
5.2	28.9	6.2	27.9	6.5	27.6
6.1	28.0	6.8	27.3	7.4	26.7
6.9	27.2	7.5	26.6	8.3	25.8
7.1	27.0	7.9	26.2	8.5	25.6
7.2	26.9	8.2	25.9	8.2	25.9
8.3	26.8	8.7	26.4	9.5	24.6
2.4	26.5	3.3	24.6	3.7	24.2
2.7	26.2	3.7	24.2	4.2	23.7
3.5	24.4	4.2	23.7	4.8	23.1
3.7	24.2	4.3	23.6	4.5	23.4
3.6	24.3	4.3	23.6	4.8	23.1
3.7	24.2	4.5	23.4	5.0	22.9
4.0	23.9	4.7	23.2	5.4	22.5
4.6	23.3	5.3	22.6	5.8	22.1
4.8	23.1	5.5	22.4	6.2	21.7

G.J. Rennie Rod
G. Lambert Chain

Aug. 20 '04

		±	H.I.	Elev
75+50			27.86	
+55.5	E. line Cass St			
76				
+35.5	W. " " "			
BM. Mky	S.W. Cor " "	−6.96 +3.14	±4 .04	20.90
+50				0+15
77				0+65
+50				1+15
78				1+65
+50				2+15
79				2+65
+50				3+15
80				3+65
+50				4+15
81				4+65
+35.5	E. line Bayard St.			5+00
+50				
82				

Hornblend Ave

5 52

N. Rod	N. Elev.	C Rod	C Elev	S Rod	S Elev
5.1	22.8	5.9	22.0	6.5	21.4
5.1	22.8	6.0	21.9	6.5	21.4
5.3	22.6	6.0	21.9	6.7	21.2
5.6	22.3	6.3	21.6	7.0	20.9
1.9	22.1	2.6	21.4	3.3	20.7
2.4	21.6	3.0	21.0	3.8	20.2
2.7	21.3	3.1	20.9	3.9	20.1
2.8	21.2	4.0	20.0	4.6	19.4
3.7	20.3	4.2	19.8	4.6	19.4
4.3	19.7	4.7	19.3	5.4	18.6
4.4	19.6	5.1	18.9	5.8	18.2
4.8	19.2	5.4	18.6	6.2	17.8
5.3	18.7	5.8	18.2	6.4	17.6
5.7	18.3	6.3	17.7	6.6	17.4
6.0	18.0	6.6	17.4	7.0	17.0
6.2	17.8	6.7	17.3	7.2	16.8
6.9	17.1	7.2	16.8	7.8	16.2

G.J. Rennie Rod — Aug. 20 '04
G. Lambert Chain ±

			H.I.	Elev
82 +15.5	W. line Bayard St.		24.04 ✓	0.0
Bm. + Pkg. S.W.	" "	-7.80 +1.81	18.05	16.24
+50				0+35
83				0+85
+50				1+35
84				1+85
+50				2+35
85				2+85
+50				3+35
86				3+85
+50				4+35
87				4+85
+13.3	E line Allison St.			5+00
+15	Cent Motor Line			
+50				
+93.3	W. line	" "		0 0
Bm. Spk. Tel. Pole	near S.W. Cor	" " -8.28 +6.25	16.02	9.77

Hornblend Ave.

N. Rod	N. Elev	C Rod	C Elev	S Rod	S Elev
7.0	17.0	7.3	16.7	7.8	16.2
1.3	16.7	1.8	16.2	2.2	15.8
2.0	16.0	2.3	15.7	2.9	15.1
2.7	15.3	3.0	15.0	3.4	14.6
3.2	14.8	3.6	14.4	3.7	14.3
3.7	14.3	4.1	13.9	4.5	13.5
4.3	13.7	4.8	13.2	5.1	12.9
5.1	12.9	5.5	12.5	5.9	12.1
6.3	11.7	6.6	11.4	6.4	11.6
9.2	8.8	7.5	10.5	8.3	9.7
9.5	8.5	10.1 in Borrow Pit	7.9 on Motor Line Bank	6.1 on Motor Line	11.9 " Bank
9.5	8.5	6.1 on Motor Line	11.9	9.4 on "	8.6
Back of rail		5.8	12.2		
8.7	9.3	9.8	8.2	10.0	8.0
8.0	10.0	8.0	10.0	8.3	9.7

G.J. Runnin Rod
G. Lambert Chain

Aug 20 04

		±	H.I.	Elev
88			16.02 ✓	0+10
+50				0+60
89				1+10
+50				1+60
90				2+10
+50				2+60
91				3+00
+51				
+70	Edge of Bank			

Hornblend Ave.

N. Rod	Elev	c Rod	Elev	50 Rod	Elev
5.9	10.1	5.9	10.1	5.9	10.1
4.8	11.2	5.1	10.9	5.4	10.6
4.5	11.5	4.8	11.2	5.1	10.9
4.3	11.7	4.8	11.2	5.2	10.8
4.0	12.0	4.9	11.1	5.1	10.9
4.3	11.7	4.8	11.2	4.8	11.2
3.9	12.1 (12.0)	4.3	11.9 (11.9)	5.0	11.0 (11.0)
4.4	11.6	4.5	11.5	5.1	10.9
		4.9	11.1		

Levels on Bayard St.
Beginning at the South line of Garnet Ave. Running South.

G. Rennie Rod Aug. 20 '04
Lambert Chain

	±	H.I.	Elev
B.M. NW. Cor. Garnet St.	+2.46	23.40	20.94
0 So line Garnet Ave			
+50			
1			
+50			
2			
+50			
+67.0 N. line Hornblend St.			
3			
+47.0 So " " "			
	-7.19		(16.24 ck)
Reg. Plug S.W. Cor. " "	+2.14	18.35	16.21
4			0+50
+50			1+00
5			1+50
+50			2+00

Bayard St.

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
2.4	21.0	3.0	20.4	3.6	19.8
2.7	20.7	3.6	19.8	4.1	19.3
3.7	19.7	4.2	19.2	4.4	19.0
4.2	19.2	4.6	18.8	5.1	18.9
4.6	18.8	5.2	18.2	5.8	17.6
5.1	18.3	5.6	17.8	6.3	17.1
5.5	17.9	6.1	17.3	6.2	17.2
5.8	17.6	6.4	17.0	6.6	16.8
6.5	16.9	6.9	16.5	7.2	16.2
		2.6			
2.0	16.4	2.6	15.8	2.8	15.6
3.1	15.3	3.1	15.3	3.7	14.7
3.5	14.9	4.3	14.1	4.6	13.8
4.8	13.6	5.3	13.1	5.2	13.2

J.J. Rennie Rod G. Lambert Chain	Aug 20 04			Bayard St.					
				E.		C		W	
	±	H.I.	Elev	Rod	Elev	Rod	Elev	Rod	Elev.
6		18.35	2+50	5.7	12.7	6.1	12.3	6.0	12.4
+16.5 N. line Grand Ave.			2+70	6.1	12.3	6.8	11.6	6.7	11.7
Plug. N.W. Cor. " "	-6.74		11.61						
+50				7.0	11.4	7.5	10.9	7.8	10.6
+79 Cent. Motor line	Base of Rail					7.5	10.9		
7				7.5	10.9	7.9	10.5	8.2	10.2
+41.5 So. line Grand Ave.				8.5	9.9	8.7	9.7	9.3	9.1
Peg.	-8.44 +2.62	12.53	9.91						
+50				2.4	10.1	2.8	9.7	3.3	9.2
8				3.2	9.3	3.7	8.8	4.0	8.5
+50				4.1	8.4	4.4	8.1	4.5	8.0
9				4.8	7.7	5.1	7.4	5.4	7.1
+50				5.1	7.4	5.6	6.9	5.9	6.6
10				5.6	6.9	6.1	6.4	6.6	5.9
+13 N. Side Thomas Ave.				5.9	6.6	6.1	6.4	6.5	6.0
+50				6.2	6.3	6.6	5.9	6.9	5.6
B.M. Peg S.E. Cor. Thomas "	-6.54 +4.13	10.12	5.99						
+93 So. line " "				4.1	6.0	4.6	5.5	4.7	5.4

GJ Rumin Rod
Glambert Chain

	±	H.I.	Elev
11		10.12 ✓	
+50			
12			
+50			
13			
+50			
+62 N. Side Reed Ave			
14			
+42 " "			
BM. Plug N.E. Cor " "	-5.11		5.01 ✓

For levels between Garnet & Alabama Avenues see Pages 62-63

Bayard St

37

E		C		W	
Rod	Elev	Rod	Elev	Rod	Elev
4.2	5.9	4.6	5.5	4.7	5.4
4.3	5.8	4.8	5.3	5.2	5.4
4.3	5.8	5.0	5.1	5.3	4.8
4.4	5.7	5.4	4.7	5.7	4.4
4.5	5.6	5.4	4.7	5.7	4.4
5.0	5.1	5.6	4.5	5.8	4.3
5.1	5.0	5.6	4.5	5.6	4.5
5.4	4.7	5.6	4.5	6.3	3.8
5.4	4.7	5.9	4.2	6.4	3.7

G J Rennie Rod
G Lambert Chain

Aug 20 04

Levels on Allison St. Beginning on the South line of Garnet Ave running South to Reed Ave.

G J Rennie Rod
G Lambert Chain

Aug. 20 04

		I	H.I.	Elev.
B.M. Spk. Tel Pole Near S.W. Cor. Garnet		+1.56	16.25	14.69
0	So. line Garnet St.			
+50				
1				
+50				
2				
+50				
+76.5	No. line Hornblend St.			
3				
+56.5	So. " " "			
	N.W. cor. " "			
B.M. Tel. Pole near		-6.47		9.78 (9.77 Cr)
4				
+50				

Allison St.

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
2.4	13.9	2.0 B. of Rail	14.3	2.4	13.9
3.6	12.7	2.5 "	13.8	3.6	12.7
4.8	11.5	2.9 "	13.4	4.2	12.1
5.0	11.3	3.1	13.2	3.9	12.4
6.3	10.0	4.9	11.4	4.7	11.6
7.2	9.1	6.4	9.9	6.1	10.2
7.4	8.9	6.0	10.3	6.3	10.0
5.0	11.3	7.7	8.6	6.2	10.1
8.2	8.1	8.2	8.1	6.4	9.9
8.9	7.4	8.2	8.1	6.7	9.6
9.5	6.8	8.0	8.3	7.3	9.0

G J Runnie Rod
G Lambert Chain

Aug 90

		±	H.I.	Elev.
5			16.25	
Peg		−8.05 +3.35	11.55	8.20
+50				
6				
+16.5	No. line Grand ave.			
+50				
+78.2	Cent. Motor Spur Base of Rail			
7				
B.M. Tel. Pole	Near S.W. Cor Grand ave	−3.96		7.59
+41.5	So. line Grand ave.			
+50				0+10
8				0+60
+50				1+10
9				1+60
+50				2+10
Peg		−8.23 +3.00	6.32	3.32
10				2+60

Allison St.

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev.
10.1	6.2	8.7	7.6	8.1	8.2
5.8	5.8	4.1	7.5	4.4	7.2
5.9	5.7	5.0	6.6	4.7	6.9
4.5	7.1	5.0	6.6	4.7	6.9
4.8	6.8	4.9	6.7	5.2	6.4
		3.6	8.0		
4.4	7.2	4.5	7.1	4.6	7.0
5.6	6.0	5.6	6.0	5.9	5.7
6.7	4.9	6.6	5.0	7.0	4.6
7.9	3.7	7.5	4.1	7.0	4.6
8.2	3.4	7.2	4.4	7.2	4.4
7.7	3.9	7.7	3.9	7.6	4.0
8.1	3.5	8.2	3.4	8.4	3.2
3.1	3.2	3.6	2.7	3.5	2.8

G J Rennie Rod
G Lambert Chain

Aug 20 '04

		±	H.I.	Elev
10+13	No. Side Thos. Ave		6.32 ✓	2+70
+50				±
+93.0	So. line " "			+80
Plug S.W. Cor.	" "	-3.81		2.51
11+50				0+60
12				1+10
+50				1+60
13				2+10
+50				2+60
+62	N. line Reed ave			2+70
Plug N.W. Cor.	" "	-5.80		0.52
14				
+42	So. line " "			

Quit Aug 20 04

For levels on Allison St. between Garnet + Alabama Aves. See Page 60

Allison St

E. Rod	E. Elev	C. Rod	C. Elev	W. Rod	W. Elev
3.6	2.7	3.6	2.7	3.5	2.8
3.5	2.8	4.0	2.3	3.8	2.5
4.1	2.2	4.3	2.0	3.8	2.5
4.6	1.7	4.4	1.9	4.3	2.0
4.9	1.4	4.8	1.5	4.2	2.1
5.2	1.1	5.1	1.2	5.0	1.3
5.6	0.7	5.5	0.8	5.4	0.9
6.0	0.3	5.7	0.6	6.0	0.3
5.9	0.4	5.8	0.5	5.8	0.5
6.1	0.2	6.1	0.2	6.3	0.0
6.4	-0.1	6.2	0.1	6.6	-0.3

Levels on Ivy Ave.

Beginning on the East line of Pendleton St. & running west to Lamont St.

G J Rennie Rod Aug. 22 '04
G Lambert Chain

	±	H.I.	Elev.
P.M. S.W. Cor. Pendleton	+11.02	27.41	16.39
O. E. line Pendleton			
+50			
+80. W. " "			
1			
+50			
2			
+50			
3			
+50			
4			
Peg	-0.22 +11.21	38.40	27.19
+50			
5			

Ivy Ave

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
10.3	17.1	12.2	15.2	13.7	13.7
9.5	17.9	10.8	16.6	11.8	15.6
8.9	18.5	10.2	17.2	11.0	16.4
8.2	~~17.2~~ 19.2	9.5	17.9	10.4	17.4
7.0	20.4	7.9	19.5	8.7	18.7
5.5	21.9	6.7	20.7	8.3	19.1
4.5	22.9	5.8	21.6	7.6	19.8
3.2	24.2	4.8	22.6	6.5	20.9
2.5	24.9	3.6	23.8	5.3	22.1
0.8	26.6	2.1	25.3	3.9	23.5
10.1	28.3	11.9	26.5	13.7	24.7
9.1	29.3	11.1	27.3	12.7	25.7

G J Rennie Rod
G Lambert Chain

Aug. 22 '04

		I	H.I.	Elev
5+50			38.40 ✓	
+80	E. line Olney St.			
6				
+50				
+60	W. " " "			
Peg & BM.	N.W. Cor. " "	-1.32 +8.66	45.74	37.08
7				
+50				
8				
+50				
9				
+50				
10				
+50				
11				
+50				
+60	E. line Noyes St.			
BM. & Peg	N.E. Cor. " "	-5.62 +2.65	42.77	40.12

Ivy Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
8.1	30.3	10.3	28.1	12.3	26.1
7.2	31.2	8.8	29.6	11.8	26.6
6.2	32.2	7.9	30.3	10.9	27.5
1.6	36.8	5.4	33.0	8.8	29.6
1.3	37.1	5.1	33.3	8.4	30.0
6.4	39.3	10.9	34.8	14.2	31.5
5.2	40.5	9.5	36.2	11.5	34.2
4.4	41.3	7.1	38.6	8.7	37.0
2.8	42.9	4.7	41.0	6.4	39.3
1.4	44.3	3.0	42.7	3.9	41.8
0.8	44.9	1.9	43.8	4.0	41.7
1.1	44.6	1.6	44.1	3.4	42.3
1.6	44.1	2.0	43.7	3.6	42.1
2.7	43.0	3.8	41.9	4.9	40.8
5.2	40.5	8.4	37.3	10.9	34.8
5.6	40.1	8.9	36.8	11.6	34.1

G J Rennie Rod			Aug 22 '04			Ivy Ave					
G Lambert Chain			±	H.I.	Elev.	N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
12				42.77 ✓		2.5	40.2	5.3	37.4	10.5	32.2
+40	W. Side Noyes St.					3.0	39.7	5.0	37.7	11.3	31.4
+50						3.4	39.3	6.0	36.7	11.8	30.9
13						5.9	36.8	9.2	33.6	11.4	31.3
+50						7.2	35.5	8.9	33.8	10.9	31.8
14						6.6	36.1	8.4	34.3	10.1	32.6
+50						6.2	36.5	6.6	36.1	9.2	33.5
15						3.6	39.1	3.6	39.1	7.3	35.4
+50						0.9	41.8	3.4	39.3	6.4	36.3
16						0.3	42.4	2.4	40.3	5.7	37.0
+50						(+0.6)	43.37	1.5	41.2	4.7	38.0
17						(+0.3)	43.07	1.7	41.0	3.4	39.3
Peg & Plug BM, S.E. Cor. Morell St.			−3.40 +7.20	46.57	39.37						
+39.6	E. line	" "				3.4	43.2	5.1	41.5	7.2	39.4
+50						3.4	43.2	5.1	41.5	7.2	39.4
18						3.0	43.6	4.7	41.9	6.7	39.9
+19.6	W. "	" "				3.3	43.3	4.4	42.2	6.4	40.2
+50						3.2	43.4	4.4	42.2	5.8	40.8

G J Rennie Rod
G Lambert Chain

Aug 22 04

			±	H.I.	Elev.
19				46.57 ✓	
+50					
20					
+50					
21					
+50					
22					
+50					
23					
+19	E. line Lamont St.				
Plug. S E. Cor	"	"	-1.27		45.30 ✓

Ivy Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
		4.5	42.1	4.6	42.0
		4.5	42.1	5.7	40.9
		4.6	42.0	6.1	40.5
		4.2	42.4	6.3	40.3
		4.2	42.4	6.6	40.0
		0.5	46.1	6.2	40.4
				4.7	41.9
				2.7	43.9
				1.6	45.0
				1.3	45.3

Levels on Grand Ave. Beginning on the East line of Pendleton & running west to the Ocean.

E J Rennie Rod

G Lambert Chain Aug. 22 '04

		±	H.I.	Elev.
B.M. Tel. Pole Pendleton St.		+6.21	35.65	29.44 ✓
0-24	N.E. Cor " "			
0	E. line " "			
0+24	S.E. Cor. " "			
+50				
+69.0	N.W. Cor. " "			
+99	S.W. " " "			
1				
+50				
2				
+50				
3				
+07.0	intersect N. line Hornblend Ave.			

Grand Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
4.6	31.1				
5.4	30.2	6.1	29.6		
				11.7	24.0
6.0	29.7	5.5	30.2	10.7	25.0
5.8	29.9				
				9.6	26.1
4.7	31.0	4.7	31.0	9.6	26.1
3.6	32.1	4.1	31.6	8.5	27.2
3.2	32.5	3.4	32.3	6.6	29.1
2.3	33.4	2.7	33.0	5.8	29.9
1.6	34.1	1.9	33.8	4.5	31.2
				4.3	31.4

Cent. line levels are taken top of Gas Motor line

G J Rennie Rod
G Lambert Chain

Aug 22 '04

			±	H.I.	Elev.
3+50				35.65 ✓	
4					
Peg.			−0.28 +7.21	42.58	35.37
+50					
5					
+50					
+83.5	N.E. Cor.	Olney St.			
6					
+09.5	S.E. Cor.	" "			
+50					
+66.5	N.W. "	" "			
+91.5	S.W. "	" "			
7					
+50					
			−2.38 +10.75	50.95	40.20
8					
+50					
9					

Grand Ave.

N Rod	N Elev		C Rod	C Elev		S Rod	S Elev
1.1	34.6		1.1	34.6		4.1	31.6
0.5	35.2		0.4	35.3		2.9	32.8
6.5	36.1		6.6	36.0		9.2	33.4
5.7	36.9		5.9	36.7		8.6	34.0
5.2	37.4		5.3	37.3		7.7	34.9
4.8	37.8						
4.5	38.1		4.6	38.0		6.3	36.3
						6.1	36.5
3.3	39.3		3.9			5.2	37.4
2.9	39.7						
						3.9	38.7
1.8	40.8		3.2			4.3	38.3
0.9	41.7		2.5			3.4	39.2
7.3	43.6	89/40 42.9	10.0	40.9	100/40 41.0	10.5	44.4
6.1	44.8	71/40 43.0	9.3	41.6	87/40 42.3	9.2	41.5
4.9	46.0	68/40 44.1	8.6	42.3	82/40 42.8	8.3	42.6

G J Rennie Rod
G Lambert Chain

Aug 22 '021

			±	H.I.	Elev.
9+50				50.95	
10					
+50					
11					
+50					
+78 N.E. Cor. Noyes St					
12					
+03.0 S.E. Cor. Wi	"		+90.5		
+50					
+61.5 No.W Cor	"	"			
+86.5 S.W. "	"	"	+74		
13					
+50					
14					
Peg.			−5.88 +3.86	48.93	45.07
+50					
15					
+50					

Grand Ave

47

N Rod	N Elev		C Rod	C Elev		S Rod	S Elev	
4.9	46.0	5.8/40	45.1	7.8	43.1	7.2/40	43.7	7.3	43.6
3.7	47.2	5.0/40	45.9	7.1	43.8	6.1/40	44.8	6.1	44.8
3.2	47.7	4.1/40	46.8	6.7	44.2	5.2/40	45.7	5.4	45.5
2.5	48.4	3.3/40	47.6	6.5	44.4	5.6/40	45.3	5.7	45.2
1.9	49.0	3.3/40	47.6	6.3	44.6	5.9/40	45.0	6.0	44.9
1.6	49.3								
1.9	49.0	3.3/40	47.6	6.1	44.8	6.0/40	44.9	6.3	44.6
								5.7	45.2
3.1	47.8	4.4/40	46.5	6.0	44.9	6.0/40	44.9	6.2	44.7
3.7	47.2								
								6.3	44.7
4.8	46.1	5.5/40	45.4	6.0	44.9	6.2/40	44.7	6.8	44.1
6.3	44.6	6.5/40	44.4	6.0	44.9	7.5/40	43.4	7.5	43.4
6.4	44.3	6.7/40	44.2	6.0	44.9	7.7/40	43.2	7.7	43.2
4.5	44.4	4.5/40	44.4	4.0	44.9	5.8/40	43.1	7.9	41.0
4.4	44.5	4.5/40	44.4	4.0	44.9	5.7/40	43.2	8.9	40.0
3.8	45.1	4.4/40	44.5	4.0	44.9	5.5/40	43.7	8.5	40.4

G J Rennie Rod
G Lambert Chain

Aug 22 04

			±	H.I.	Elev.
16				48.93 ✓	
+50					
17					
+50					
+72.5	N.E. Cor. Morell St.		+85		
+97.5	S.E. " " "				
18					
+50					
+55.5	N.W. Cor. " "		+68		
+80.5	S.W " " "				
19					
+50					
20					
+50					
Peg			-2.36 +6.21	52.78	46.57
21					
+50					

Grand Ave.

N Rod	N Elev		C Rod	C Elev			S Rod	S Elev
3.8	45.1	4.4/40	44.5	4.0	44.9	5.7/40	43.2	7.3	41.6
3.8	45.1	4.4/40	44.5	3.9	45.0	5.6/40	43.3	6.0	42.9
3.9	45.0	4.2/40	44.7	3.8	45.1	5.4/40	43.5	5.3	43.6
3.1	45.8	4.1/40	44.8	3.7	45.2	5.4/40	43.5	5.4	43.5
2.6	46.3								
								5.4	43.5
2.9	46.0	3.7/40	45.2	3.6	45.3	5.4/40	43.5	5.4	43.5
2.6	46.3	3.8/40	45.1	3.5	45.4	5.2/40	43.7	5.6	43.3
2.5	46.4								
								5.6	43.3
2.9	46.0	3.4/40	45.5	3.2	45.7	5.1/40	43.8	5.5	43.4
2.4	46.5	3.0/40	45.9	3.0	45.9	4.9/40	44.0	5.8	43.1
2.0	46.9	3.0/40	45.9	2.8	46.1	4.5/40	44.4	5.4	43.5
2.2	46.7	2.3/40	46.6	2.4	46.5	4.3/40	44.6	5.5	43.4
6.0	~~56.8~~ 46.8	6.4/40	46.4	5.8	47.0	7.6/40	45.2	9.7	43.1
5.7	~~57.1~~ 47.1	6.3/40	46.5	5.4	47.4	6.9/40	45.9	9.5	43.3

G J Rennie Rod
G Lambert Chain

Aug 22 '04

			±	H.I.	Elev
22				52.78	
+50					
23					
+50					
+69	N.E. Cor. Lamont St.				
+89	S.E. Cor. "	"			
S.E. Cor. Joy +	"	"	-7.42		45.36
24					
+50					
+53	N.W. Cor "	"			
+65	S.W. " "	"	+59		
Peg			- 1.99 + 5.72	56.51	50.79
25					
+50					
26					
+50					
27					
+50					

Grand Ave.

N Rod	N Elev		C Rod	C Elev		S Rod	S Elev		
5.3	47.5	5.9/40	46.9	5.0	47.8	6.2/40	46.6	9.0	43.8
4.2	48.6	5.4/40	47.4	4.5	48.3	6.0/40	46.8	8.4	44.4
2.4	50.4	4.6/40	48.2	4.0	48.8	5.8/40	47.0	7.8	45.0
2.2	50.6	4.0/40	48.8	3.5	49.3	5.2/40	47.6	6.2	46.6
1.5	51.3								
								6.2	46.6
1.2	51.6	2.3/40	50.5	2.9	49.9	4.8/40	48.0	5.8	47.0
0.7	52.1	2.1/40	50.7	2.4	50.4	4.2/40	48.6	5.2	47.0
1.0	51.8								
								5.3	47.5
4.2	52.3	5.9/40	50.6	5.8	50.7	6.9/40	49.9	7.6	48.9
4.8	51.7	5.4/40	51.1	5.4	51.1	6.6/40	50.2	6.7	49.8
4.9	51.6	5.3/40	51.2	5.0	51.5	6.4/40	50.1	5.7	50.8
4.7	51.8	5.4/40	51.1	4.8	51.7	5.8/40	50.7	5.1	51.4
5.0	51.5	4.9/40	51.6	4.7	51.8	5.4/40	51.1	4.9	51.6
5.0	51.5	5.0/40	51.5	4.6	51.9	5.6/40	50.9	5.1	51.4

G J Rennie Rod
G Lambert Chain

Aug. 22 54

Grand Ave

			±	H.I.	Elev	N. Rod	N. Elev		C Rod	C Elev		S Rod	S Elev
28				56.51 ✓		5.6/62.5	50.9	5.0/40	51.5	4.7	51.8	5.7/40	50.8	5.7	50.8
+50						5.5	51.0	5.7/40	50.8	4.6	51.9	6.0/40	50.5	5.6	50.9
29						6.0	50.5	5.8/40	50.7	4.7	51.8	6.2/40	50.3	5.5	51.0
+50						7.0	49.5	6.0/40	50.5	4.7	51.8	6.4/40	50.1	6.0	50.5
+61	E. line	Kendall St				7.0	49.5					6.3/40	50.2	5.9	50.6
30						7.8	48.7	6.2/40	50.8	4.6	51.9	6.3/40	50.2	5.4	51.1
+41	W "	" "				7.6	48.9							6.1	50.4
+50						7.3		6.0/40	50.5	4.6	51.9	6.4/40	50.1	6.3	50.2
Peg. S.W.	Cor.	" "	-6.13 +5.20	55.58	50.38										
31						6.0	49.6	4.9/40	50.7	3.6	52.0	5.5/40	50.1	6.3	49.3
+50						5.6	50.0	4.8/40	50.8	3.6	52.0	5.5/40	50.1	7.2	48.4
32						5.8	49.8	4.7/40	50.9	3.6	52.0	5.3/40	50.3	7.6	48.0
+50						5.7	49.9	4.7/40	50.9	3.6	52.0	5.1/40	50.5	7.5	48.1
33						5.4	50.2	4.4/40	51.2	3.6	52.0	5.4/40	50.2	8.0	47.6
+50						5.0	50.6	4.3/40	51.3	3.6	52.0	5.5/40	50.1	8.0	47.6
34						4.4	51.2	4.3/40	51.3	3.6	52.0	5.3/40	50.3	7.7	47.9
+50						3.9	51.7	4.0/40	51.6	3.6	52.0	5.4/40	50.2	7.2	48.4
35						4.0	51.6	3.8/40	51.8	3.6	52.0	5.4/40	50.2	7.4	48.2

G J Remine Rod · Aug 22 '04
G Lambert Chain

		±	Hite	Elev
+39.7 E. line Jewel St.			55.58 ✓	
35+50				
36				
+19.7 W. " " "				
36+50				
Peg + BM Plug S.W. Cor. " "		−6.12 +8.84	58.30	49.46 ✓
37				
+50				
38				
+50				
39				
+50				
40				
+50				
41				
+19.6 E. line Broadway				
+50				
Peg. Quit Aug 22 '04 Began 23 '04		−1.52 +8.72	65.50	56.78 ✓

Grand Ave.

N Rod	N Elev		C Rod	C Elev			S Rod	S Elev
3.8	51.8						6.9	48.7
3.8	51.8	3.9/40	51.7	3.6	52.0	5.5/40	50.1	6.5	49.1
3.8	51.8	3.9/40	51.7	3.5	52.1	5.4/40	50.2	6.5	49.1
2.6	53.0							6.1	49.5
3.2	53.4	3.9/40	51.7	3.3	52.3	5.2/40		6.0	49.6
6.2	52.1	6.3/40	52.0	5.8	52.5	7.5/40	50.8	8.3	50.0
6.0	52.3	6.3/40	52.0	5.6	52.7	7.1/40	51.2	7.9	50.4
5.4	52.9	6.0/40	52.3	5.3	53.0	6.9/40	51.4	7.6	50.7
5.2	53.1	5.6/40	52.7	4.9	53.4	6.6/40	51.7	7.1	51.2
4.6	53.7	5.4/40	52.9	4.4	53.9	6.1/40	52.2	6.6	51.7
4.7	53.6	4.5/40	53.8	4.0	54.3	5.8/40	52.5	6.5	51.8
3.5	54.8	3.9/40	54.4	3.6	54.7	5.6/40	52.7	6.2	52.1
3.3	55.0	3.5/40	54.8	3.2	55.1	5.3/40	53.0	6.5	51.8
2.9	55.4	3.3/40	55.0	2.7	55.6	4.6/40	53.7	5.2	53.1
2.3	56.0							5.0	53.3
1.8	56.5	2.7/40	55.6	2.1	56.2	3.8/40	54.5	4.3	54.0

G J Rennie Rod
G Lambert Chain

Aug. 23 '49

			±	H.I.	Elev.
42				65.50 ✓	
+19.6	W. line Broadway.				
+50					
43					
+50					
44					
+50					
45					
+50					
46					
+50					
47					
+19.3	E. line Haines St.				
+50					
Peg & B.M.	Plug S.W. Cor.	" "	−11.99 +2.82	56.33	53.51
+99.3	W				
48+50					

Grand Ave.

N Rod	N Elev.			C Rod	C Elev.			S Rod	S Elev.
8.3	57.2	8.8/40	56.7	8.7	56.8	9.9/40	55.6	10.1	55.4
8.7	56.8							9.3	56.2
7.2	58.3	7.2/40	58.3	8.2	57.3	8.8/40	56.7	7.8	57.7
5.5	60.0	5.9/40	59.6	7.7	57.8	7.8/40	55.7	7.4	58.1
3.7	61.8	4.3/40	61.2	7.5	58.0	6.1/40	59.4	6.0	59.5
2.6	62.9	3.4/40	62.1	7.5	58.0	5.0/40	60.5	3.9	61.6
2.9	62.6	4.0/40	61.5	7.8	57.7	5.0/40	60.5	3.5	62.0
3.1	62.4	4.5/40	61.0	8.2	57.3	5.3/40	60.2	3.9	61.6
4.4	61.1	5.4/40	60.1	8.7	56.8	5.9/40	59.6	4.1	61.4
6.6	58.9	6.6/40	58.9	9.3	56.2	6.7/40	58.8	5.3	60.2
8.6	56.9	8.2/40	57.3	9.9	55.6	8.4/40	57.1	6.6	58.9
9.1	56.4	9.3/40	56.2	10.5	55.0	9.5/40	56.0	8.3	57.2
9.1	56.4							9.5	56.0
9.3	56.2	10.1/40	55.4	11.2	54.3	10.8/40	54.7	10.8	54.7
0.1	56.2 ~~53.2~~	1.9/40	54.4 ~~51.4~~	2.8	53.5 ~~50.5~~	2.7/40	~~52.6~~ 53.6	2.8	53.5 ~~50.5~~
0.6	55.7 ~~52.7~~	2.9/40	53.4 ~~50.4~~	3.6	52.7 ~~49.7~~	3.7/40	~~49.6~~ 52.6	3.7	52.7 ~~49.6~~

G J Rennie Rod
G Lambert Chain

Aug 23 '07

			±	H.I.	Elev.
49				56.33	
+50					
50					
+50					
51					
+50					
52					
+50					
+99.5	E. line Gresham St.				
Peg + B.M. N.E. Cor.	"	"	-11.98 +2.21	46.56	44.35
53+50					
+79.5	W line	"	"		
54					
+50					
55					
+50					
56					
+50					

Grand Ave

	N. Rod	N. Elev		C Rod	C Elev		S Rod	S Elev		
49	1.0	55.3 ~~52.3~~	4.2/40	~~49.1~~ 52.1	4.5	51.8 ~~48.8~~	4.8/40	~~48.5~~ 51.5	4.2	52.1 ~~49.1~~
+50	1.9	54.4 ~~51.4~~	5.1/40	~~48.2~~ 51.2	5.2	51.1 ~~48.1~~	5.7/40	50.6 ~~47.6~~	5.6	50.7 ~~47.7~~
50	4.3	52.0 ~~49.0~~	6.3/40	~~47.0~~ 50.0	5.9	50.4 ~~47.4~~	6.7/40	49.6 ~~46.6~~	6.3	50.0 ~~47.0~~
+50	6.3	50.0 ~~47.0~~	7.4/40	~~45.9~~ 48.9	6.7	49.6 ~~46.6~~	8.2/40	48.1 ~~45.1~~	8.3	48.0 ~~45.0~~
51	8.1	48.2 ~~45.2~~	8.5/40	~~44.8~~ 47.8	7.5	48.8 ~~45.8~~	9.0/40	~~44.3~~ 47.3	9.6	46.7 ~~43.7~~
+50	9.7	46.6 ~~43.6~~	9.4/40	~~43.9~~ 46.9	8.3	48.0 ~~45.0~~	10.0/40	~~43.3~~ 46.3	10.8	45.5 ~~42.5~~
52	10.7	45.6 ~~42.6~~	10.0/40	46.3 ~~43.3~~	9.0	47.3 ~~44.3~~	10.9/40	~~42.4~~ 45.4	11.2	45.1 ~~42.1~~
+50	11.4	44.9 ~~41.9~~	10.7/40	45.6 ~~42.6~~	9.8	46.5 ~~43.5~~	11.4/40	~~41.9~~ 44.9	12.8	43.5 ~~40.5~~
+99.5	12.0	44.3 ~~41.3~~	11.2/40	45.4 ~~42.4~~	10.6	45.7 ~~42.7~~	11.9/40	~~41.4~~ 44.4	11.7	44.6 ~~41.6~~
53+50	3.3	43.3	2.3/40	44.3	1.5	45.1	2.5/40	44.1	4.6	42.0
+79.5	3.5	43.1							4.5	42.1
54	3.9	42.7	3.0/40	43.6	2.2	44.4	3.0/40	43.6	4.4	42.2
+50	5.3	41.3	4.2/40	42.4	3.0	43.6	4.1/40	42.5	5.5	41.1
55	6.0	40.6	5.0/40	41.6	3.8	42.8	5.0/40	41.6	6.2	40.4
+50	6.4	40.2	5.7/40	40.9	4.5	42.1	5.7/40	40.9	7.4	39.2
56	6.9	39.7	6.1/40	40.5	5.2	41.4	6.6/40	40.0	7.6	39.0
+50	7.5	39.1	7.0/40	39.6	5.9	40.7	7.4/40	39.2	8.6	38.0

G J Rennie Rod
J Lambert Chain

Aug 23 04

			±	H.I.	Elev.
57				46.56 ✓	
+50					
58					
Peg			− 8.85 + 0.15	37.86	37.71
+50					
+78.6	E. line Tunnel St.				
59					
+50					
+58.6	W. "	" "			
Plug S.W. Cor.		" "	−4.85		33.01
60					
+50					
61					
+50					
62 ✓					
+50					
63					
+50					

Grand Ave

N C S. 54

Rod	Elev			Rod	Elev			Rod	Elev
8.1	38.5	7.7/40	38.9	6.7	39.9	8.3/40	38.3	9.3	37.3
9.0	37.6	8.4/40	38.2	7.4	39.2	8.9/40	37.7	10.0	36.6
9.5	37.1	9.0/40	37.6	8.1	38.5	9.8/40	36.8	10.7	35.9
1.2	36.7	1.0/40	36.9	0.2		2.0/40	35.9	3.0	34.9
1.7	36.2							4.1	33.8
1.9	36.0	1.9/40	36.0	0.9		2.9/40	35.0	4.4	33.5
2.1	35.8	2.5/40	35.4	1.6		3.7/40	34.2	5.0	32.9
2.2	35.7							4.9	33.0
2.3	35.6	2.9/40	35.0	2.3	35.6	4.1/40	33.8	5.2	32.9
1.8	36.1	3.3/40	34.6	3.0	34.9	4.5/40	33.4	4.9	33.0
1.1	36.8	3.5/40	34.4	3.7	34.2	4.5/40	33.4	4.9	33.0
0.9	37.0	3.4/40	34.5	4.4	33.5	4.3/40	33.6	4.4	33.5
1.1	36.8	3.7/40	34.2	5.2	32.7	4.5/40	33.4	3.9	34.0
1.9	36.0	3.9/40	34.0	6.0	31.9	4.7/40	33.2	3.4	34.5
2.8	35.1	4.4/40	33.5	6.7	31.2	5.2/40	32.7	4.4	33.5
3.9	34.0	5.4/40	32.5	7.4	30.5	5.6/40	32.3	5.8	32.1

G J Rennie Rod
G Lambert Chain

Aug 23 04

		±	H.I.	Elev.
64			37.86 ✓	
+50				
+58	E. line Evarts St.			
65				
+38	W. " " "			
BM. + Peg	Plug N.W. Cor. " "	− 8.66 + 0.66	29.86	29.20
66				
+50				
67				
+50				
68				
+50				
69				
+50				
70				
+37.7	E. line Dawes St.			
+50				
71				

Grand Ave

N Rod	N Elev			C Rod	C Elev			S Rod	S Elev
4.3	33.6	6.2/40	31.7	8.1	29.8	6.6/40	31.3	6.1	31.8
6.3	31.6	7.4/40	30.5	8.7	29.2	7.5/40	30.4	6.8	31.1
5.4	32.5							6.4	31.5
5.8	32.1	8.3/40	29.6	9.4	28.5	8.3/40	29.6	7.0	30.9
8.7	29.2	9.3/40	28.6	10.1	27.8	9.5/40	28.4	9.4	28.5
2.5	27.4	2.8/40	27.1	2.6	27.3	2.8/40	27.1	3.0	26.9
3.3	26.6	3.2/40	26.7	3.2	26.7	4.0/40	25.9	4.2	25.7
3.7	26.2	4.1/40	25.8	3.7	26.2	5.0/40	24.9	5.7	24.2
4.2	25.7	4.7/40	25.2	4.1	25.8	5.8/40	24.1	5.9	24.0
4.7	25.2			4.6	25.3			6.7	23.2
5.0	24.9			5.1	24.8			7.1	22.8
5.6	24.3			5.6	24.3			7.5	22.4
5.4	24.5			6.0	23.9			7.6	22.3
6.5	23.4			6.5	23.4			8.5	21.4
7.2	22.7							8.8	21.1
7.5	22.4			7.0	22.9			9.1	20.8
8.0	21.9			7.5	22.4			9.6	20.3

G J Rennie Rod
G Lambert Chain

Aug 23 04

Grand Ave

			±	H.I.	Elev.	N. Rod	N. Elev	C. Rod	C. Elev	S. Rod	S. Elev
+17.7	W. line Dawes St.			29.86		8.1	21.8			9.8	20.1
BM+Peg	S.W. Cor.	" "	−9.83 +3.54	23.57	20.03						
71+50						2.1	21.5	1.8	21.8	3.9	19.7
72						2.7	20.9	2.3	21.3	4.3	19.3
+50						3.4	20.2	2.9	20.7	4.4	19.2
73						3.9	19.7	3.3	20.3	4.5	19.1
+50						4.2	19.4	3.8	19.8	5.2	18.4
74						4.7	18.9	4.3	19.3	5.8	17.8
+50						5.1	18.5	4.8	18.8	6.4	17.2
75						5.4	18.2	5.3	18.3	7.0	16.6
+50						5.6	18.0	5.8	17.8	7.4	16.2
76						5.7	17.9	6.4	17.2	7.7	15.9
+17.7	E. line Cass St.					6.0	17.6			7.9	15.7
+50						6.2	17.4	7.0	16.6	8.4	15.2
+97.7	W. "	" "				6.8	16.8	7.4	16.2	8.5	15.1
BM+Peg	S.W. Cor.	" "	−8.45 +2.29	17.41	15.12						
77+50						1.5	15.9	1.7	15.7	2.9	14.5

G J Rennie Rod
G. Lambert Chain Aug. 23. 04

			±	H.I.	Elev
78				17.41 ✓	
+50					
79					
+50					
80					
+50					
81					
+50					
+97.7	E. line Bayard St.				
82+50					
			− 5.89		
BM & Peg	N.W. Cor. "	"	+ 2.17	13.69	11.52
+77.7	W. line "	"			
83					
+50					
84					
+50					
85					

Grand Ave

57

N. Rod	N. Elev	C Rod	C Elev	S Rod	S Elev
1.3	16.1 ~~4.4~~	2.2	15.2	3.4	14.0
1.8	15.6	Rod 2.8/40 Elev. 14.6	2.7	14.7	3.8	13.6
2.2	15.2	3.4/40 14.0	3.3	14.1	4.5	12.9
2.6	14.8	3.8/40 13.6	3.8	13.6	4.9	12.5
3.1	14.3	4.4/40 13.0	4.3	13.1	5.6	11.8
4.1	13.3	5.1/40 12.3	4.8	12.6	6.1	11.3
4.2	13.2	5.4/40 12.0	5.3	12.1	6.9	10.5
4.4	13.0	5.8/40 11.6	4.7	12.7	7.4	10.0
5.4	12.0	6.2/40 11.2	6.2	11.2	7.5	9.9
5.4	12.0	6.6/40 10.8	6.5	10.9	7.6	9.8
2.2	11.5				4.7	9.0
2.6	11.1	3.1/40 10.6	2.9	10.8	4.6	9.1
2.4	11.3	3.2/40 10.5	3.5	10.2	5.2	8.5
3.3	10.4	3.5/40 10.2	4.0	9.7	5.2	8.5
3.7	10.0		4.2	9.5	5.2	8.5
2.1 on motor line	11.6		4.5	9.2	5.6	8.1

G.J. Rinnie Rod
G. Lambert Chain.

Aug. 23 '04

		±	H.I.	Elev.
85+50			13.69	
86				
+50.				
87				
+50				
+76	E. line Allison St			
88				
Rey Bm. Tel. Pole		−6.23 +4.23	11.69	7.46
+50				
+56	W line " "			
89				
+50				
90				
+50				
91				
+50				
92				
+15	Edge of Bank			

Grand Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev.
5.1	8.6	4.8	8.9	5.8	7.9
5.7	8.0	5.0	8.7	5.4	8.3
6.4	7.3	5.4	8.3	6.8	6.9
7.0	6.7	5.7	8.0	8.4	5.3
8.1	5.6	5.8	7.9	8.2	5.5
6.3	7.4			8.3	5.4
7.1	6.6	6.1	7.6	7.8	5.9
4.9	6.8	4.0	7.7	6.9	4.8
5.1	6.6			6.6	5.1
5.4	6.3	4.3	7.4	6.0	5.7
5.1	6.6	4.6	7.1	6.0	5.7
4.2	7.5	4.3	7.4	5.5	6.2
4.2	7.5	4.3	7.4	5.3	6.4
3.9	7.8	4.4	7.3	5.4	6.3
3.6	8.1	4.2	7.5	5.0	6.7
3.1	8.6	4.4	7.3	4.0	7.7
4.1	7.6	4.7	7.0	4.4	7.3

G J Rennie Rod
G Lambert Chain Aug. 23 04

± H.I. Elev.

Grand Ave.

S 59

N		C		S	
Rod	Elev	Rod	Elev	Rod	Elev

Levels on Allison St,
Beginning on the So. line of
Garnet Ave & running to the
North line of ~~Alabama~~ Diamond Ave.
For Levels between Garnet &
Reed Aves. See Pages 38-40
G J Rennie Rod
G Lambert Chain

Aug 23rd 04

	±	H.I.	Elev.
B.M. Tel. Pole S.W. Cor. Garnet	+ 8.14	22.83	14.69
0+80 N. line Garnet Ave.			
1			
+50			
2			
+50			
3			
+50 So line Mass. Ave.			
4			
+30 No " " "			
+50			
5			
Peg	-0.14 +10.36	33.05	22.69

Allison St.

W. 60

E Rod	Elev	C Rod	Elev	W Rod	Elev
8.6	14.2	7.7	15.1	7.8	15.0
7.9	14.9	7.4	15.4	7.6	15.2
7.7	15.1	6.7	16.1	7.1	15.7
7.7	15.1	5.9	16.9	7.0	15.8
7.4	15.4	5.1	17.7	7.0	15.8
6.9	15.9	4.3	18.5	6.5	16.3
5.9	16.9	3.4	19.4	6.2	16.6
4.3	18.5	2.4	20.4	5.3	17.5
3.8	19.0			4.5	18.3
3.3	19.5	1.4	21.4	3.8	19.0
2.2	20.6	0.6	22.2	2.3	20.5

Cent. line of levels are taken on top of Tiles Motor line

G J Rennie Rod
G Lambert Chain

Aug. 23 '04

Allison St.

			±	H.I.	Elev	E Rod	E Elev.	C Rod	C Elev.	W Rod	W Elev
5+50				33.05 ✓		11.4	21.6	9.9	23.1	11.4	21.6
6						10.5	22.5	8.9	24.1	10.6	22.4
+50						9.3	23.7	8.0	25.0	9.8	23.2
7	So. line Vermont ave.					8.3	24.7	7.0	26.0	8.7	24.3
+50						7.6	25.4	6.0	27.0	7.9	25.1
+80	No "		"			7.0	26.0				
Plug. N.E Cor.	"	" "	-6.98							6.9	26.1
8						6.7	26.3	5.1	27.9	6.8	26.2
+50						5.7	27.3	4.2	28.8	6.1	26.9
9						4.6	28.4	3.3	29.7	5.4	27.6
+50						3.8	29.2	2.4	30.6	3.9	29.1
10						2.9	30.1	1.4	31.6	3.6	29.4
+49.2	So. line Alabama ave.					1.6	31.4	0.5	32.5	2.3	30.7
Hub. N.E. Cor.	"	"	-1.61								

Levels on Bayard St. between the South line of Garnet Ave. + the North line of ~~Alabama~~ Diamond Ave.

For Levels between Garnet + Reed avenues See Pages 35–37

G.J. Rennie Rock Aug.
G Lambert Chain

B.M. N.W. Cor. Garnet Ave. +10.17 31.11 20.94

			E		C		W	
			Rod	Elev	Rod	Elev	Rod	Elev
0+80	No. line Garnet Ave.							
1								
+50								
2								
+50								
3								
+50	So line Mass. Ave (Felspar)							
4								
+30	No. " " "							
+50			"	"				
Plug	N.E. Cor	"	-4.47	26.64				
5								
+50								

Bayard St. 62

	E		C		W	
	Rod	Elev	Rod	Elev	Rod	Elev
2+70	9.1	22.0	9.7	21.4	10.2	20.9
2+50	8.6	22.5	9.4	21.7	9.9	21.2
2+00	8.1	23.0	8.5	22.6	9.4	21.7
1+50	7.6	23.5	8.2	22.9	8.4	22.7
1+00	6.9	24.2	7.4	23.5	7.9	23.2
0+50	6.2	24.9	6.2	24.9	7.3	23.8
0-0	5.5	25.6	5.9	~~27.2~~ 25.2	6.7	24.4
	4.9	26.2	5.2	25.9	6.0	25.1
-2+70	4.5	26.6			5.6	25.5
-2+50	4.1	27.0	4.6	26.5	5.2	25.9
2+00	3.6	27.5	3.9	27.2	4.6	26.5
1+50	2.4	28.7	3.1	28.0	4.0	27.1

G J Rennie Rod
G Lambert Chain

Aug 23 04

		±	H.I.	Elev
6			31.11 ✓	
+50				
7	So line Vermont Ave. (Emerald)			
Peg. Plug S.W. Cor.	"	− 2.10 +10.61	39.62	29.01
+50				
+80	No. line " "			
8				
+50				
9				
+50				
10				
+49.9	So line Alabama Ave. Diamond			
B.M. Tel. Pole		−3.13		36.49

Bayard

	E Rod	E Elev	C Rod	C Elev.	W. Rod	W. Elev.
1+00	24 ~~3.6~~	28.7	2.8	28.3	3.6 ~~2.4~~	27.5
0+50	2.0 ~~2.7~~	29.1	2.4	28.7	2.7 ~~2.0~~	28.4
0.0	1.4	29.7	1.6	29.5		
	8.8	30.8	8.8	30.8	9.5	30.1
2+70	8.3	31.3			8.6	31.0
2+50 ✓	7.6	32.0	7.8	31.8	7.7	31.9
2+00 ✓	6.7	32.9	6.7	32.9	7.3	32.3
1+50 ✓	5.6	34.0	5.8	33.8	6.1	33.5
1+00 ✓	4.3	35.3	4.6	35.0	5.2	34.4
0+50 ✓	3.6	36.0	3.5	36.1	4.4	35.2
0+00 ✓	2.3	37.3	2.8	36.8	3.5	36.1

Levels on Cass St. Beginning on the South line of ~~Alabama~~ Diamond Ave. & running South

G J Rennie Rod
G Lambert Chain

Aug 23 04

Plug S.W. Cor Alabama Av.	-1.92	45.10	43.18
0 So. line "			
+50			
1			
+50			
2			
+50			
+70 No. line Vermont Ave			
3			
+50 So " " "			
Peg Plug S.W. Cor "	-8.31 +3.68	40.47	36.79

Cass St

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev.
0.8	44.3	1.4	43.7	1.9	43.2
1.9	43.2	2.2	42.9	2.9	42.2
3.0	42.1	3.3	41.8	3.9	41.2
4.0	41.1	3.8	41.3	5.1	40.0
5.0	40.1	5.4	39.7	6.3	38.8
6.1	39.0	6.5	38.6	6.9	38.2
6.3	38.8			7.3	37.8
6.9	38.2	6.9	38.2	7.9	37.2
7.3	37.8	7.7	37.7	8.3	36.8

G J Rennie Rod
G Lambert Chain Aug. 23 04

4				40.47	
+50					
5					
+50					
6					
+ 19.0 No. line Mass. Ave.					
+50					
+99 So " " "					
7+50					
8					
+50					
Pey			-11.65 +1.79	30.61	28.82
9					
+50					
+68 No line Garnet Ave					
10					
+48 So " " "					

Cass St

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
2.9	37.6	3.1	37.4	4.1	36.4
3.6	36.9	4.0	36.5	4.5	36.0
4.4	36.1	4.5	36.0	5.3	35.2
4.9	35.6	5.5	35.0	6.1	34.4
5.8	34.7	6.5	34.0	6.9	33.6
6.1	34.4			7.3	33.2
6.7	33.8	7.2	33.3	7.8	32.7
7.5	33.0	8.1	32.4	8.7	31.8
8.6	31.9	8.9	31.6	9.7	30.8
9.6	30.9	10.0	30.5 ~~29.5~~	10.6	29.9
10.6	29.9	11.0	29.5	11.7	28.8
1.8	28.8	2.2	28.4	2.8	27.8
2.2	28.4	2.7	27.9	2.9	27.7
2.2	28.4			3.5	27.1
2.9	27.7	3.3	27.3	3.8	26.8
3.2	27.4	3.5	27.1	4.2	26.4

G J Rennie Rod
G Lambert Chain

Aug 23 '04

11				30.61	✓
+50					
12					
+50					
13					
+16.2	N. line Hornblend ave				
+50					
+96.2	So. line	"	"		
14					
Peg. Plug S.W. Cor	"	"	-9.71 +1.33	22.23	20.90
+50					
15					
+50					
16					
+50					
+65.7	N. line Grand ave.				
17					
+50					

Cass St

E Rod	E Elev	C Rod	C Elev	W. Rod	W. Elev.
3.6	27.0	4.2	26.4	4.8	25.8
4.9	25.7	4.8	25.8	5.6	25.0
5.7	24.9	6.1	24.5	6.5	24.1
6.9	23.7	6.9	23.7	7.4	23.2
7.5	23.1	7.7	22.9	8.1	22.5
8.3	22.3			8.7	21.9
8.5	22.1	8.4	22.2	8.9	21.7
9.3	21.3			9.7	20.9
9.4	21.2	9.3	21.3	9.9	20.7

Quit Aug. 23 '04

1.6	20.6	1.7	20.5	2.1	20.1
2.2	20.0	2.4	19.8	2.8	19.4
3.0	19.2	3.0	19.0	3.4	18.8
3.8	18.4	3.9	18.3	4.3	17.9
4.5	17.7	4.8	17.4	5.1	17.1
4.5	17.7			5.3	16.9
6.0	16.2	6.2	16.0	6.4	15.8
6.0	16.2	6.4	15.8	6.6	15.6

G J Rumie Rod
G Lambert Chain

Aug 27 04

Cass St

		±	H.I.	Elev	E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
17+90.7	S. line Grand Ave.		22.23	/	6.4	15.8			7.0	15.2
18					6.7	15.5	7.2	15.0	7.5	14.7
Plug S.W. Cor.	" "	-6.98		15.25						
+50					6.9	15.3	7.4	14.8	7.2	15.0
19					7.6	14.6	8.0	14.2	8.2	14.0
+50					8.2	14.0	8.1	14.1	9.0	13.2
Peg		-8.71 +0.85	14.37	13.52						
20					0.9	13.5	1.2	13.2	1.6	12.8
+50					1.4	13.0	1.7	12.7	2.1	12.3
+60.5	N. line Thomas Ave.				1.2	13.2			2.2	12.2
21					2.0	12.4	2.4	12.0	2.6	11.8
+40.5	S. " " "				2.8	11.6			2.5	11.9
S.W. Cor.	" "	-2.80		11.57						
21+50					3.0	11.4	2.7	11.7	2.6	11.8
22					3.4	11.0	3.6	10.8	3.7	10.7
+50					3.7	10.7	3.9	10.5	4.0	10.4
23					4.0	10.4	4.5	9.9	4.8	9.6
+50					4.3	10.1	4.7	9.7	5.1	8.3

G J Rennie Rod
G Lambert Chain

Aug 27 04

		±	H.I.	Elev
24			14.37 ✓	
+10.5	N. line Rud Ave.			
Plug	N. W. Cor. " "	-5.52		8.85
+50				
+90.5	So line " "	St. 80ft wide		
25				
+50				
26				
+50				
Pey		-6.72 +3.58	11.23	7.65
27				
+50				
28				
+50				
29				
+50				
30				

Cass St

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
5.1	9.3	5.4	9.0	5.0	9.4
5.2	9.2			5.5	8.9
5.4	9.0	5.5	8.9	5.9	8.5
5.8	8.6			6.4	8.0
6.1	8.3	6.1	8.3	6.4	8.0
5.7	8.7	6.7	7.7	6.8	7.6
6.5	7.9	6.9	7.5	7.0	7.4
6.7	7.7	6.9	7.5	7.3	7.1
3.9	7.3	4.2	7.0	4.2	7.0
4.4	6.8	4.3	6.9	4.3	6.9
4.6	6.6	4.5	6.7	4.4	6.8
5.3	5.9	4.9	6.3	4.6	6.6
6.1	5.1	5.6	5.6	5.3	5.9
8.0	3.2	6.8	4.4	6.1	5.1
11.7	-0.5	9.4	1.8	8.1	3.1

G J Rennie Rod
G Lambert Chain

Aug 27 04

Cass St.

		±	H.I.	Elev.	E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
30+50			11.23		14.8	-3.6	13.6	-2.4	10.6	0.6
+89.4	Pueblo lot line				15.1	-3.9	14.9	-3.7	13.8	-2.6

30 89.4
24 90.5
5 98.9

30 89.4
24 10.6
678.9
18
660.9

G J Rennie Rod
G Lambert Chain

Aug.

±	H.I.	Elev.

Cass St

E	C	W
Rod Elev.	Rod Elev.	Rod Elev

Levels on Pendleton St.
Beginning at the So. line of
Garnet ave running North
to the South line of ~~Alabama~~ Diamond Ave.
G.J. Rennie Rod.
Gambert Chain Aug 24 04

	±	H.I.	Elev
B.M. Plug S.E. Cor. Garnet Ave	+12.77	48.44	35.67
0+80 No. line Garnet Av.			
1			
+50			
2			
+50			
Peg	−0.34 +12.51	60.61	48.10
3			
+49.6 So. line Mass. Ave.			
4			
+29.6 No. " " "			
Plug N.W. Cor. " "	−2.78		57.83
+50			
Peg. N.E. cor. "	−3.05 +12.71	70.27	57.56

Pendleton St.

71

E Rod	E Elev	C Rod	C Elev	W Rod	W Elev
7.8	40.6			11.0	37.4
8.0	40.4	10.6	37.8	10.5	37.9
5.3	43.1	8.5	39.9	9.0	39.4
3.6	44.8	5.8	42.6	6.3	42.1
2.6	45.8	2.7	45.7	1.7	46.7
11.7	48.9	12.1	48.5	11.6	49.0
9.0	51.6	9.2	51.4	8.9	51.7
5.0	55.0	5.5	55.1	5.5	55.1
3.1	57.6			2.8	54.8
1.3	59.3 ~~47.6~~	1.5	59.1	1.4	59.2

G J Rennie Rod
G Lambert Chain

Aug 24 '04

			±		
.5				70.27 ✓	
+50					
6					
+50					
+99.6 So line Vermont Ave.					
7 +50					
B.M. 1 Peg. N.E. Cor.	"	"	− 2.11 + 13.07	81.23	68.16
+79.6 N. line	"	"			
8					
+50					
9					
+50					
10					
+48.5 So line Alabama Ave.					
Plug S.E. Cor.	"		−0.54		

Pendleton St.

E Rod	E Elev	C Rod	C Elev	W. Rod	W. Elev.
8.0	62.17	7.7	62.6	8.3	62.0
5.7	64.6	5.3	65.0	6.3	64.0
4.3	66.0	4.0	66.3	5.3	65.0
2.8	67.5	3.4	66.9	4.1	66.2
2.3	68.0	2.2	68.1	2.5	67.8
1.8	68.5	0.9	69.4	0.8	69.5
13.1	68.1			10.8	70.4
12.6	68.6	10.7	70.5	10.0	71.2
10.0	71.2	8.7	72.5	7.9	73.3
7.7	73.5	6.5	74.7	5.5	75.4
5.5	75.7	4.5	76.7	3.5	77.7
3.0	78.2	2.5	78.7	1.2	80.0
0.5	80.7	0.1	81.1	+0.5	80.73

Feldspar ~~Massachusetts~~ Ave levels Beginning on the East line of Pendleton St & running west to the Ocean, except the two blocks between Lamont & Jewel Streets.

G J Rennie Rod
G Lambert Chain

Aug. 24 '04

		±	H.I.	Elev
N.W. Cor.	Pendleton St	+0.50	58.33	57.83
0+00	E. line Pendleton St.			
+50				
+80	W " " "			
1				
+50				
2				
+50				
3				
+50				
4				
+50				

Massachusetts Ave

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
0.6	57.7	3.7	54.6	6.7	57.6
0.7	57.6	4.0	54.3	7.0	51.3
0.5	57.8			6.6	51.7
0.8	57.5	0.4	57.9	7.0	51.3
4.0	54.3	6.7	57.6	8.8	49.5
6.0	52.3	8.2	50.1	9.8	48.5
5.9	52.4	7.6	50.7	9.0	49.3
5.9	52.4	7.5	50.8	8.9	49.4
7.9	50.4	9.6	48.7	11.0	47.3
7.2	57.1	8.7	49.6	10.2	48.1
3.1	55.2	4.3	54.0	6.2	52.1

G J Rennie Rod
G Lambert Chain

Aug 24 '04

		±	Hdl	Elev
5			58.33	
Peg		−6.15 +10.42	62.60	52.18
+50				
+79	E. line Olney St.			
6				
+50				
+59	W. " " "			
7				
+50				
Peg		−0.00 +6.75	69.35	62.60
8				
+50				
9				
+50				
10				
+50				
11				
+50				

Mass. Ave.

N Rod	N Elev	C Rod	C Elev	S Rod	S Elev
0.4	57.9	2.8	55.5	5.4	52.9
3.5	59.1	6.7	55.9	10.4	52.2
3.5	59.1			12.1	50.5
3.7	58.9	8.6	54.0	12.9	49.7
5.2	57.4	9.8	52.8	13.0	49.6
5.7	56.9			13.0	49.6
4.3	58.3	7.7	54.9	10.4	52.2
(+0.3)	62.9	3.6	59.0	6.5	56.1
4.6	64.8	6.5	62.9	10.7	58.7
2.6	66.8	7.5	61.9	11.8	57.6
2.2	67.2	6.6	62.8	10.7	58.7
7.3	62.1	9.1	60.3	10.3	59.1
6.8	62.6	8.4	61.0	8.6	60.8
6.4	63.0	6.7	62.7	7.6	61.8
4.5	64.9	5.2	64.2	6.1	63.3
2.8	66.6	3.9	~~55.5~~ 65.5	4.6	64.8

G J Rennie Rod
G Lambert Chain

Aug. 24 04

		±	H.I.	Elev.
11+59	E. line Noyes St.		69.35 ✓	
12				
+39	W. " " "			
+50				
B.M. Spk. Fence Post. S.W. Cor.	" "	−2.53 +11.72	78.54	66.82
13				
+50				
14				
+50				
15				
+50				
16				
Pey		−6.90 +10.80	82.44	71.64
+50				
17				
+38.7	E. line Morell St.			
+50				
18				

Mass. Ave.

N. Rod	N. Elev	C Rod	C Elev	S. Rod	S. Elev.
2.4	67.0			4.1	65.3
1.4	68.0	2.4	67.0	3.4	66.0
0.6	68.8			2.8	66.6
0.5	68.9	1.5	67.9	2.7	66.7
8.6	69.9	9.8	68.7	11.0	67.5
8.0	70.5	9.3	69.2	10.1	68.4
6.6	71.9	6.9	71.6	6.3	72.2
3.8	74.7	+25 4.7 5.5	73.8 73.0	+25. 5.0 6.4	73.5 72.1
6.7	71.8	8.1	70.4	9.3	69.2
5.9	72.6	4.2	74.3	5.3	73.2
4.6	73.9	5.5	73.0	7.0	71.5
10.8	71.6	12.4	70.0	13.7	68.7
10.5	71.9	12.2	70.2	13.8	68.6
10.1	72.3			12.9	69.5
9.5	72.9	10.8	71.6	12.5	69.9
8.0	74.4	9.9	72.5	10.5	71.9

E. J. Rennie Rod Aug 24 '04
E. Lambert Chain

18 +18.7	W. line Morell		82.44		
+50					
19					
+50					
20					
+50					
21					
Peg		-1.21 +10.66	91.89	81.23	
+50					
22					
+50					
23					
+18	E. line Lamont St.				
+50					
+98	W. " " "				

Mass. Ave is closed from Lamont to Pearl Streets. For Continuation of Mass. Ave see Page 2 Book No 2.

Mass. Ave

S 76

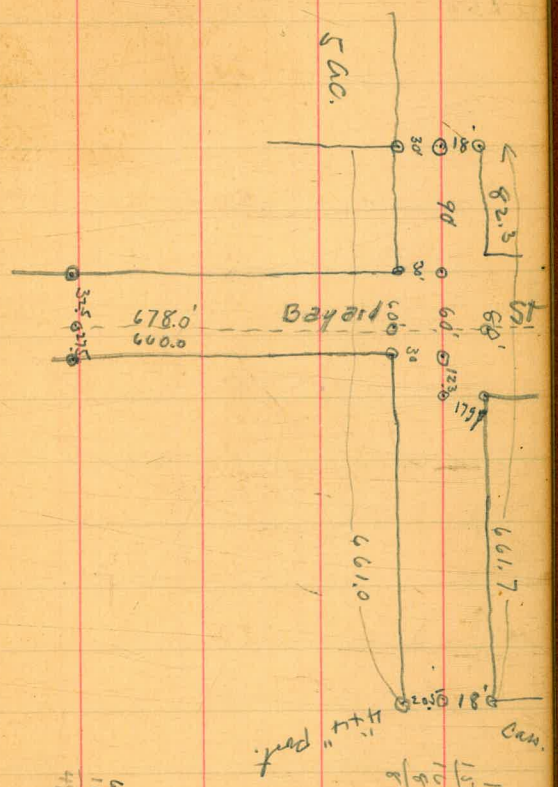
N Rod	Elev	C Rod	Elev	S Rod	Elev.
7.0	75.4			8.7	73.7
5.4	77.0	5.8	76.6	6.6	75.8
2.9	~~79.5~~ 69.5	4.0	78.4	5.2	77.2
1.9	80.5	3.1	79.3	4.2	78.2
2.1	80.3	2.7	79.7	5.2	77.2
2.5	79.9	3.6	78.8	4.7	77.7
2.0	80.4	3.4	79.0	4.0	78.4
10.1	81.8 ~~71.8~~	11.0	70.9	11.8	80.1 ~~70.1~~
8.1	83.8 ~~73.8~~	9.8	72.1	11.0	80.9 ~~70.9~~
7.2	84.7 ~~74.7~~	8.5	73.4	10.0	81.9 ~~71.9~~
4.3	87.6 ~~77.6~~	7.3	74.6	9.2	82.7 ~~72.7~~
3.9	88.0 ~~78.0~~			8.9	83.0 ~~73.0~~
2.6	89.3 ~~79.3~~	5.2	76.7	7.6	84.3 ~~74.3~~
1.0	90.9 ~~71.9~~	4.1	77.8	6.3	85.6 ~~75.6~~

Brouletti's Add.

Beg. at No. W. Cor. 661.7 to W. line Cass.

661.0 to P.L. line prod. North.

Extending N. line of 5 Acres. East we are 18 ft. South of N.W. Cor Cass. St. + 20.5 N. of P.L. Cor.



E line Pendleton 36. ft. to S.E. Cor.
E line Olney St. 36.8 to S.E. Cor.
47+56.7 East line Noyes. 40.8 ft. to S.E. Cor.
46.80 W. line Noyes.
40+80 W. line Morell.
35+00 west Lamont.
29+20 Kendal
23+39.3 West Side Jewell
17+39.3 Broadway
11+59.3 West line Hanes.
5+80
5+40 W. line Graham
0. W. line Tunnel & Cent. Garnet.

B.Ms on Alabama

57.58	Spk. in Post. S.E. Cor.	17th
98.15	" " Stump. Dr. Corey's House	Noyes.
107.73	Plug. N-W. Cor	Lamont.
93.91	Spk. Tel. Pole Near S.E. Co.	Jewel
36.37	" " " " S.W. Cor.	Bayard

Alabama is 3rd St. North of Garnet

28.21

Peg.

8210.6

24+53 SW
24+65

59+61
24+53
5+08 N

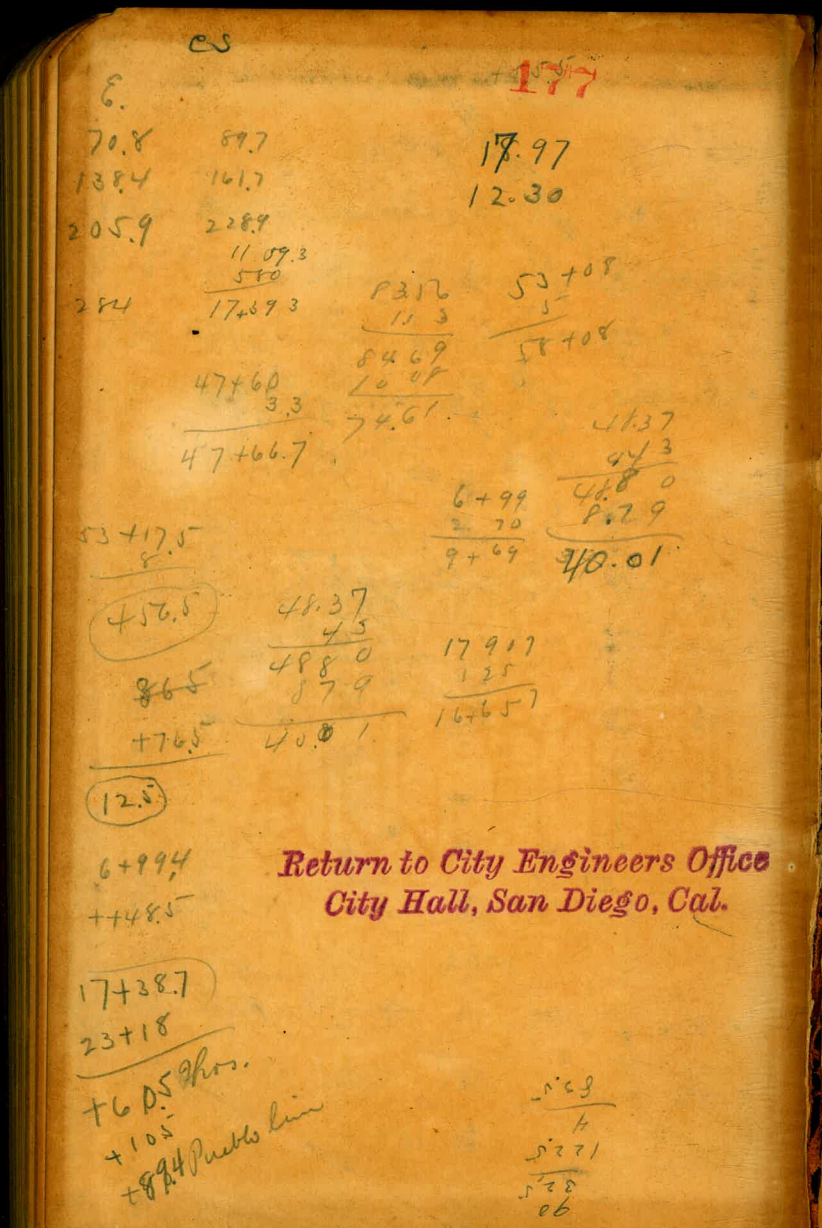
496 S

23.20
58 94.5
82 14 5

7.59
9.66
17.25
14.69
2.56

2.52
14.73

3736
36 39
99



TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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