

1041

LEVEL BOOK

373

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

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

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

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

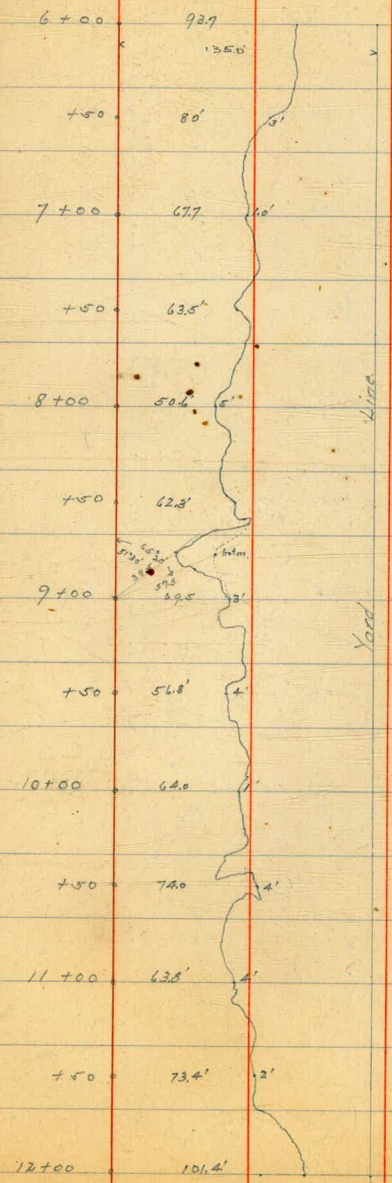
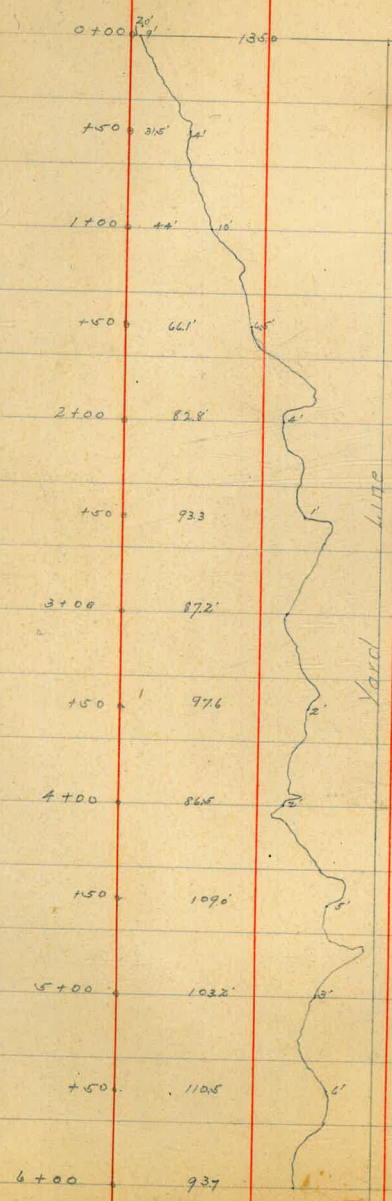
Calculated by Julien A. Hall, M. Am. Soc. C. E.

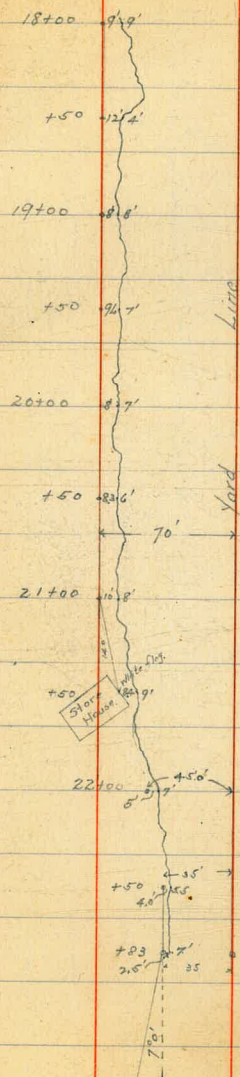
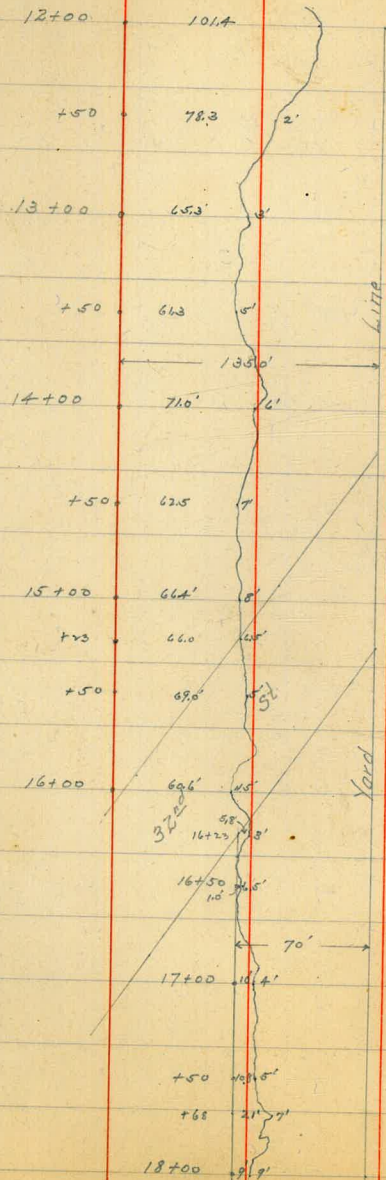
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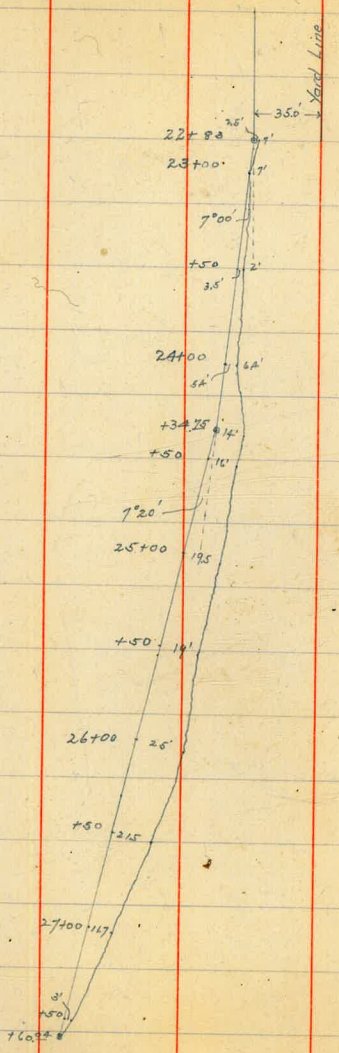
DEC 17 1966

10.94 Manual

Offsets to top and bottom of bluff at Shipyard's Den







Soundings for Concrete ship yard.

X Sect. at Sta. 22+83 -

Station	Depth of Water	Elav. W.S.	Elav. Bottom
21	31	G=0.7	- 30.3
+50	29		28.3
20	24		28.3
+50	28	0.8	27.2
19	27		26.2
+50	26		25.2
18	25		24.2
+50	23	0.9	22.1
17	22		21.1
+50	19.5		18.6
16	18.5	1.0	17.5
+50	17		16.0
15	16		15.0
+50	15	1.1	13.9
14	14		12.9
+50	13		11.9
13	12.5		11.4
+50	12	1.2	10.8
12	12		10.8
+50	11.5		10.3

(Dormant
Other
Shaw)

Aug 1918
- Note -

Plane of reference is Lower Low Water. Soundings give depth of water at time the soundings are taken together with elev. of Water Surface at that time referred to L.L.W. 0 = -2.01 City Datum = -2.89 U.S.G.S.

11	11	1.2	9.8
+50	11	G=1.3	9.7
10	10		8.7
+50	10		8.7
9	9		7.7
+50	7 1/2	1.4	6.1
8	5 1/2		4.1
+50	4		2.6
7	3 1/2	1.4	2.1
+50	3 1/2	1.5	2.0
6	3 1/2		2.0
+50	3 1/2		2.0
5	3	1.6	1.4
+50	2 1/2		0.9
4	2 1/2		0.9
+50	2		-0.4
3	1 1/2	1.7	+0.2
+50	1 1/2		+0.2
2	1		+0.7
+50	1	1.8	+0.8

1	0.8		+1.0
+50	0.4		+1.4
00	0.2	G=1.9	+1.7
	Section	22+50	
21	31		-29.2
+50	30	G=1.8	28.2
80	29.5		27.7
+50	28.5		26.7
19	27 1/2		25.7
+50	26		24.2
18	25	line of	23.2
50	23 1/2		21.7
17	22		20.2
+50	21		19.2
16	19	2.0	17.0
+50	18	3.1	15.9
15	18		14.9
+50	17		13.9
14	16	3.2	12.8
+50	15		11.8
13	14 1/2		11.3

+50	10	3.2	10.8
12	10 1/2		10.3
+50	10 1/2		10.3
11	10		9.8
+50	12 1/2	3.3	9.2
10	12		8.7
+50	11 1/2		8.2
9	11		7.7
+50	10		6.7
8	7 1/2		4.2
+50	6		2.7
7	5	3.4	1.6
+50	5 1/2	3.2	2.1
6	5		1.6
+50	4		1.6
5	4 1/2		1.1
+5	4		0.6
4	4		0.6
+50	3 1/2		-0.1
3	3 1/2	3.5	0.0

+50	3	3.5	+0.5
2	3		+0.5
+50	2 1/2		+1.0
1	2 1/2		+1.0
+50	2		+1.5
00	2	E=3.6	+1.6

sta 22	2	G=2.8	
00	1.0		+ 1.8
+ 50	1.5		+ 1.3
1	1.5		+ 1.3
+ 50	1.5		+ 1.3
2	2.0		+ 0.8
+ 50	2 1/2		+ 0.3
3	3	29	- 0.1
+ 50	3		0.1
4	4		1.1
+	4		1.1
5	4 1/2		1.6
+	5		2.1
6	5	30	2.0
+ 50	5		2.0
7	5		2.0
+	6 1/2		2.5
8	6		6.0
+	10		7.0
9	11 1/2	31	8.4

+	11 1/2	31	8.4
10	12		8.9
+	12 1/2		9.4
11	13		9.9
+	13		9.9
12	13 1/2	32	10.3
+	14		10.8
13	14 1/2		11.3
+	15		11.8
14	16		12.8
+	17		13.8
15	18	33	14.7
+ 50	19 1/2		16.2
16	21		17.7
+	22 1/2		19.2
17	24		20.7
+	25 1/2		22.2
18	27	34	23.6
+	27 1/2		24.1
19	30		26.6

+	$30\frac{1}{2}$	2^4	27.1
20	31	35	27.5
+	32		28.5
21	33	$G=3.5$	- 29.5

	21+50		
	00	$3\frac{1}{2}$	G 5.3 +1.8
+	1	4	+1.3
	1	4	+1.3
+	2	$4\frac{1}{4}$	+0.8
	2	$4\frac{1}{2}$	+0.8
+	3	5	+0.3
	3	$5\frac{1}{2}$	- 0.2
+	4	6	0.7
	4	6	0.7
+	5	$6\frac{1}{2}$	1.2
	5	7	5.4 1.6
+	6	7	1.6
	6	7	1.6
+	7	$7\frac{1}{2}$	2.1
	7	8	2.6
+	8	$10\frac{1}{2}$	5.1
	8	12	6.6
+	9	$12\frac{1}{2}$	7.1
	9	$13\frac{1}{2}$	8.1
+	10	14	8.6

10	14		8.5
+	15	55	9.5
11	15 1/2		10.0
+	16		10.5
12	16		10.5
+	16		10.5
13	16		10.5
+	17 1/2		12.0
14	18		12.5
+	18 1/2		13.0
15	20		14.5
+	21 1/2	56	15.9
16	23		17.4
+	24 1/2		18.9
17	26		20.4
+	27 1/2		21.9
18	29		23.4
+	30 1/2		24.9
19	32		26.4
+	33		27.4

20	33 1/2		27.8
+	34 1/2		28.8
21	35	G=5.7	-29.3

00	4 1/2	6 = 5.9	+ 1.4
+	4 1/2		+ 1.4
1	5		+ 0.9
+	4 1/2		+ 0.9
2	5		+ 0.9
+	5 1/2		+ 0.4
3	6		- 0.1
+	6 1/2		0.6
4	7		1.1
+	7		1.1
5	7 1/2	5.8	1.7
+	7 1/2		1.7
6	7 1/2		1.7
+	9		3.2
7	10		4.2
+	7 1/2		5.7
8	12 1/2		6.7
+	13		7.2
9	14		8.2
+	14 1/2		8.7

10	15		9.2
+	15	5.8	9.2
11	15 1/2		9.7
+	16		10.2
12	16		10.2
+	17		11.2
13	17		11.2
+	17 1/2		11.7
14	18 1/2		12.7
+	19 1/2		13.7
15	20 1/2		14.7
+	22		16.2
16	23 1/2	5.7	17.8
+	25		19.3
17	26 1/2		20.8
+	27 1/2		21.8
18	29 1/2		23.8
+	31		25.3
19	32		26.3
+	33		27.3

20	34		283
7	35		293
21	35	57	-293

10+50

10

00	1	G=2.2	+1.2
+00	1		+1.2
1	1 1/2		+0.7
+	1 1/2		+0.7
2	2		+0.2
+	2	2.3	+0.3
3	2 1/2		-0.2
+	3		-0.7
4	3 1/2		1.2
+	3 1/2	2.3	1.2
5	3 1/2		1.2
+	4		1.7
6	5 1/2		3.2
+	6 1/2	2.4	4.1
7	7 1/2		5.1
+	8 1/2		6.1
8	9	2.4	6.6
+	10		7.6
9	10 1/2		8.1
+	11		8.6

10	11 1/4	25	9.0
+	12		9.5
11	12		9.5
+	13		10.5
12	13		10.5
+	12 1/2	25	11.0
13	13 1/2		11.0
+	14		11.5
14	15		12.5
+	16 1/2	26	13.9
15	17		14.4
+	19		16.4
16	21		18.4
+	22 1/2	26	19.9
17	24		21.4
+	25		22.4
18	26 1/2		23.9
+	28	27	25.3
19	30		27.3
+	31		28.3

11

20	31		28.3
+	32		29.3
21	32	G=2.7	- 29.3

20			
00	3	G=4.3	+1.3
+	3		+1.3
1	3 1/2		+0.8
+	3 1/2		+0.8
2	4	4.4	+0.4
+	4 1/2		-0.1
3	4 1/2		-0.1
+	5		-0.6
4	5	4.4	0.6
+	6		1.6
5	5 1/2		2.1
+	7 1/2		3.1
6	9	4.5	4.5
+	9 1/2		5.0
7	10		5.5
+	11		6.5
8	11 1/2	4.5	7.0
+	12		7.5
9	12 1/2		8.0
+	13		8.5

10	13 1/2	4.6	8.9
+	14		9.4
11	14 1/2		9.9
+	15		10.4
12	15		10.4
+	15 1/2	4.6	10.9
13	16		11.4
+	16 1/2		11.9
14	17		12.4
+	18 1/2	4.7	13.8
15	20		15.3
+	21 1/2		16.8
16	23		18.3
+	25	4.7	20.3
17	26		21.3
+	27 1/2		22.8
18	29		24.3
+	31	4.8	26.7
19	32		27.2
+	33 1/2		28.7

20	34		29.2
+	34 1/2		29.7
21	34 1/2	G=4.8	-29.7

19+50

13

21	35 1/2	G=5.7	-29.8
+	35 1/2		29.8
20	35		29.3
+	34		28.3
19	33		27.3
+	32		26.3
38+10		<i>offe line of printing</i>	
18	31		25.3
+	29	5.8	23.2
17	27 1/2		21.7
+	26		20.2
16	24 1/2		18.7
+	22 1/2		16.7
15	21		15.2
+	19		13.2
14	19	5.8	12.2
+	17		11.2
13	16		10.2
+	16 1/2		10.7
12	16		10.2

4	15 1/2	5.8	9.7
11	15 1/2		9.7
+	15	5.9	9.1
10	14 1/2		8.6
+	14		8.1
9.5	13 1/2		7.6
+	13		7.1
8	12 1/2		6.6
+	12		6.1
7	11 1/2	5.9	5.6
+	11		5.1
6	10 1/2		4.6
+	9 1/2		3.6
5	9		3.1
+	8		2.1
4	7 1/2		1.6
+	6 1/2	6.0	- 0.5
3	6		0.0
+	6		0.0
2	5 1/2		+0.5

+	5		+1.0
1	4 1/2		+1.5
+	4 1/2		+1.5
0.0	4 1/2	G=6.0	+1.5

19			
00	1	G=2.6	+1.6
+	1 1/2		+1.1
1	1 1/2		+1.1
+	2		+0.6
2	2		+0.6
+	2 1/2		+0.1
3	3		-0.4
+	4	2.7	1.3
4	5		2.3
+	5 1/2		2.8
5	6		3.3
+	6 1/2		3.8
6	7		4.3
+	7 1/2		4.8
7	8	G=2.7	-5.3

18+50			
7	9	G=2.8	-6.2
+	9		5.2
6	7 1/2		4.7
+	7		4.2
5	6 1/2		3.7
+	6		3.2
4	5		2.2
+	4 1/2	2.9	1.6
3	3 1/2		0.6
+	3		-0.1
2	2 1/2		+0.4
+	2		+0.9
1	1 1/2		+1.4
+	1 1/2		+1.4
00	1 1/2	G=2.9	+1.4

7	10	G=3.9	- 6.1
+	9 1/2		5.6
6	9		5.1
+	8		4.1
5	7 1/2		3.6
+	7		3.1
4	6 1/2		2.6
+	6	↓	2.0
3	5 1/2		- 1.5
+	4		0.0
2	3 1/2		+ 0.5
+	3 1/2		+ 0.5
1	3		+ 1.0
+	3		+ 1.0
0.0	3	G=4.0	+ 1.0

7	10	G=4.3	- 5.7
+	9 1/2		5.2
6	9		4.7
+	8 1/2		4.2
5	8	4.4	3.6
+	7 1/2		3.1
4	7		2.6
+	6 1/2	4.4	2.1
3	6		1.6
+	5		0.6
2	4	4.5	+ 0.5
+	4		+ 0.5
1	3 1/2		+ 1.0
+ 5.0	3 1/2		+ 1.0
0.0	3	G=4.5	+ 1.5

17

7	10	C=2.9	- 5.1
+	10		5.1
6	9 1/2		4.6
+	9		4.1
5	8 1/2		3.6
+	8		3.1
4	7 1/2		2.6
+	7 1/2	5.0	2.5
3	7		2.0
+	6		- 1.0
2	5		0.0
+	4 1/2		+ 0.5
1	4		+ 1.0
+	4		+ 1.0
0.0	3 1/2	C=5.0	+ 1.5

16+5.0

17

7	10	C=5.7	- 4.3
+	10 1/2		4.8
6	10		4.3
+	10		4.3
5	9 1/2		3.8
+	9		3.3
4	8 1/2		2.8
+	8	5.8	2.2
3	7 1/2		1.7
+	7		1.2
2	6		- 0.2
+	5 1/2		+ 0.3
1	5		+ 0.8
+	4 1/2	C=5.8	+ 1.3
0.0	4		+ 1.8

7	9	$G=3.4$	-5.6
+	8		4.6
6	8		4.6
+	$7\frac{1}{2}$		4.1
5	7		3.6
+	$6\frac{1}{2}$		3.1
4	6		2.6
+	6		2.6
3	$5\frac{1}{2}$		2.1
+	$4\frac{1}{2}$		1.1
2	4		0.6
+	$3\frac{1}{2}$		-0.1
1	3		+0.4
+	$2\frac{1}{2}$		+0.9
0.0	2	$G=3.4$	+1.4

7	8	$G=3.0$	-5.0
+	8		5.0
6	$7\frac{1}{2}$		4.5
+	7		4.0
5	$6\frac{1}{2}$		3.5
+	$6\frac{1}{2}$		3.5
4	6		3.0
+	$5\frac{1}{2}$		2.5
3	5		2.0
+	4		1.0
2	4		1.0
+	$3\frac{1}{2}$		-0.5
1	3		0.0
+	2		+1.0
0.0	2	$G=3.0$	+1.0

18

7	8	G=2.7	- 5.3
+	7 1/2		4.8
4	7		4.3
+	6 1/2		3.8
5	6 1/2		3.8
+	6		3.3
4	5 1/2		2.8
+	5		2.3
3	4 1/2		1.8
+	4		1.3
2	3 1/2		0.8
+	3		0.3
1	3		- 0.3
+	2 1/2		+ 0.2
00	2	G=2.7	+ 0.7

14+50 x 19

7	7 1/2	G=2.7	- 1.8
+	7		4.3
6	7		4.3
+	6 1/2		3.8
5	6		3.3
+	6		3.3
4	5 1/2		2.8
+	5		2.3
3	4		1.3
+	4		1.3
2	3 1/2		0.8
+	3 1/2		0.6
1	3		0.3
+	3		- 0.3
00	2 1/2	G=2.7	+ 0.2

7	7 1/2	G=3.9	- 4.1
+	7 1/2		4.1
6	7		3.6
+	6 1/2		3.1
5	6 1/2		3.1
+	6		2.6
4	6		2.6
+	5 1/2		2.1
3	5		1.6
+	4 1/2		1.1
2	4		0.6
+	4		0.6
1	3 1/2		0.1
+	3 1/2		0.1
00	3 1/2	G=3.4	- 0.1

7	8	G=4.1	- 3.9
+	7 1/2		3.4
6	7.2		3.4
+	7		2.9
5	7		2.9
+	6 1/2		2.4
4	6 1/2		2.4
+	6.2		2.1
3	6		1.9
+	5		0.9
2	5		0.9
+	4.2		- 0.1
1	4		+ 0.1
+	4		+ 0.1
00	3 1/2	G=4.1	+ 0.6

13

7	8 1/2	G=2.3	-4.2
7	8		3.7
6	7.8		3.5
+	7 1/2		3.2
5	7.2		2.9
4	7		2.7
4	6 1/2		2.2
+	6.3		2.0
3	6.		1.7
+	5 1/2		1.2
2	5		0.7
+	4.8		-0.5
1	4		+0.3
+	4		+0.3
00	2.8	G=4.3	+0.5

10+60

21

7	7.9	G=3.2	-4.0
+	7 1/2		3.6
6	7.3		3.4
+	7.0		3.1
5	7.0		3.1
+	6.8		2.9
4	6.2		2.3
+	6.0		2.1
3	5 1/2		1.6
+	5.2		1.3
2	5		1.1
+	4 1/2		0.6
1	4		0.1
+	4		-0.1
00	3 1/2	G=3.2	+0.4

7	7 1/2	G = 3 1/2	- 4.0
+	7 1/2		4.0
6	7.2		3.7
+	7.		3.5
5	7		3.5
+	6 1/2		3.0
4	6.1		2.6
+	6.0		2.5
3	5 1/2		2.0
+	5		1.5
2	4 1/2		1.0
+	4.3		0.8
1	4.0		0.5
+	3.8		- 0.3
00	3.2	B 1/2	+ 0.3

7	7.0	G = 3.0	- 4.0
+	6.8		3.8
6	6 1/2		3.5
+	6.3		3.3
5	6.1		3.1
+	6		3.0
4	5.9		2.8
+	5.1		2.1
3	5		2.0
+	4.6		1.6
2	4.2		1.2
+	4		1.0
1	3 1/2		0.5
+	3.2		- 0.2
00	2.9	G = 3.0	+ 0.1

11			
7	6.0	C=2.7	- 3.3
+	6.2		3.5
6	6.1		3.4
+	6		3.3
5	6		3.3
+	5.9		3.2
4	5 1/2		2.8
+	5		2.3
3	4 1/2		1.8
+	4		1.3
2	4		1.3
+	3 1/2		0.8
1	3		0.3
+	3		- 0.3
00	2.1	C=2.7	+ 0.6

10 + 50

23

7	6.5	C=2.9	- 3.6
+	6.3		3.4
6	6		3.1
+	6		3.1
5	5.8		2.9
+	5.8		2.9
4	5.2		2.3
+	4.8		1.9
3	4.8		1.9
+	4 1/2		1.6
2	4		1.1
+	3.8		0.9
1	3.0		0.1
+	3.0		- 0.1
00	2 1/2	C=2.9	+ 0.4

7	6.8	C=3.3	- 3.5
+	6.6		3.3
6	6 1/2		3.2
+	6		2.7
5	6		2.7
+	6		2.7
4	5.9		2.6
+	5.2		1.9
3	5		1.7
+	5		1.7
2	4 1/2		1.2
+	4		0.7
1	3.8		- 0.5
+	3.2		+ 0.1
00	3	C=3.3	+ 0.3

7	7.0	C=4.0	- 3.0
+	7.0		3.0
6	6.8		2.8
+	6.2		2.2
5	6.2		2.2
+	6.2		2.2
4	6.0		2.0
+	6.0		2.0
3	5.8		1.8
+	5.7		1.7
2	5.0		1.0
+	4.8		0.8
1	4.5		- 0.5
+	4.0		0.0
00	3.5	C=4.0	+ 0.5

9			
7	7.8	$E=4.7$	-3.1
+	7 1/2		2.8
6	7.3		2.6
+	7.3		2.6
5	7.1		2.4
7	7		2.3
4	7		2.3
+	6.9		2.2
3	6.3		1.6
+	6.1		1.4
2	5.9		1.2
+	5.5		0.8
1	5.5		0.8
7	4.9		-0.2
00	4.4	$G=4.7$	+0.3

8+50			
7	7 1/2	$G=4.6$	-2.9
+	7 1/2		2.9
6	7.2		2.6
+	7		2.4
5	7		2.4
+	6.8		2.2
4	6.9		2.2
+	6 1/2		1.9
3	6.1		1.5
+	6.0		1.4
2	5 1/2		0.9
+	5 1/2		0.9
1	5.2		0.6
+	5		-0.4
00	4	$G=4.6$	+0.6

8			
7	7	$G=3.7$	- 3.3
+	7		3.3
6	$6\frac{1}{2}$		2.8
+	$6\frac{1}{2}$		2.8
5	6.2		2.5
+	6		2.3
4	6		2.3
+	5.8		2.1
3	5.7		2.0
+	5.3		1.6
2	5		1.3
+	5		1.3
1	4.8		1.1
+	$4\frac{1}{2}$		0.8
00	3.8	$G=3.7$	- 0.1

7+50

26

7	$8\frac{1}{2}$	$G=5.2$	- 3.3
+	8		2.8
6	7.8		2.6
+	7.8		2.6
5	7.8		2.6
+	7.5		2.3
4	7.0		2.1
+	7.3		2.1
3	7		1.8
+	6.8		1.6
2	6.2		1.0
+	6		0.8
1	6		0.8
+	6		0.8
00	$5\frac{1}{2}$	$G=5.2$	- 0.3

7			
7	8	$C=4.9$	-3.1
+	8		3.1
6	7.9		3.0
+	7 1/2		2.6
5	7 1/2		2.6
+	7.1		2.2
4	7		2.1
+	7		2.1
3	6 1/2		1.6
+	6.3		1.4
2	6		1.1
+	5.8		0.9
1	5.6		0.7
+	5.5		0.6
00	5.0	$C=4.9$	-0.1

			27
		$G=38$	
7	7.0		-3.2
+	6.8		3.0
6	6.8		3.0
+	6.3		2.5
5	6.5		2.7
+	6.2		2.4
+	6.0		2.2
+	5.8		2.0
3	5.5		1.7
+	5.5		1.7
2	5 1/2		1.7
+	5.0		1.2
1	4 1/2		0.7
+	4.0		0.2
00	4.0		-0.2

7	5 1/2	C=1.2	-33
7	5		28
6	5		28
+	5		28
5	5		28
+	4.6		24
4	4		18
+	4		18
3	3.8		16
+	3.8		16
2	3 1/2		13
+	3.2		10
1	3.0		08
+	2 1/2	C=2.2	+ 03
00	2.2		00

7	5.0	C=2.0	-30
7	4.8		28
6	4 1/2		25
+	4.2		22
5	4.1		21
+	4.0		20
4	3.8		18
+	3.5		15
3	3.3		13
+	3.2		12
2	3.1		11
+	3.1		11
1	2 1/2		-05
+	2		00
00	2	C=2.0	00

5			
7	5.0	$G=2.1$	- 2.9
+	5.0		2.9
6	4 1/2		2.4
+	4.2		2.1
5	4		1.9
+	3.9		1.8
4	3.6		1.5
+	3 1/2		1.4
3	3.3		1.3
+	3.4		1.3
2	3.2		1.1
+	3.1		1.0
1	2.5		0.4
+	2.5		- 0.4
00	2.0	$G=2.1$	+ 0.1

4+50			
7	6.5	$G=4.1$	- 2.4
+	6 1/2		2.4
6	6.3		2.3
+	6.3		2.3
5	6.1		2.0
4	6		1.9
+	5.8		1.7
+	5 1/2	4.2	1.3
3	5.2		1.0
+	5.2		1.0
2	5.3		1.1
+	4.8		0.6
1	4.9		0.6
+	4 1/2		- 0.3
00	3.0	$G=4.2$	+ 1.2

4			
7	7.3	$G=4.9$	- 2.5
+	7.0		2.2
6	7.0		2.2
+	6.8		2.0
5	6.8	49	1.9
+	6.5		1.6
4	6.4		1.5
+	6.2		1.3
3	6.0		1.1
+	6.0	50	1.0
2	6.0		1.0
+	5 1/2		0.5
1	5 1/2		0.5
+	5.2		- 0.2
00	5.0	$G=5.0$	0.0

3+50			
7	8.0	$G=5.3$	- 2.7
+	7.8		2.5
6	7.8		2.5
+	7.5		2.2
5	7.0		1.7
+	7.0		1.7
4	6.8		1.5
+	6.3	54	0.9
3	6.1		0.7
+	6.2		0.8
2	6.2		0.8
+	5.8		0.4
1	5.5		- 0.1
+	5.4		0.0
00	5.0	$G=5.4$	+ 0.4

3			
7	8.0	$C=5.4$	- 2.6
+	8.0		2.6
6	7.9		1.9
+	7.5		2.1
5	7.2		1.8
+	7.2		1.8
4	7.0		1.6
+	6 1/2		1.1
3	6.3		0.9
+	6.1		0.7
2	6.0		0.6
+	6.0		0.6
1	5.5		0.1
+	5.5		- 0.1
00	4.8	$C=5.4$	+ 0.6

3150

7	8	$C=5.1$	- 2.9
+	7.9		2.7
6	7.8		2.7
+	7 1/2		2.4
5	7		1.9
+	7		1.9
4	6.8		1.7
+	6.5		1.4
3	6.1		1.0
+	6.1		1.0
2	5.8		0.7
+	5.7		- 0.6
1	5.0		+ 0.1
+	4.9		+ 0.2
00	4.2	$C=5.1$	+ 0.9

7	7.1	G=4.9	-2.2
+	7.0		2.1
6	7.0		2.1
+	6.9		2.0
5	6.8		1.9
+	6.3		1.4
4	6.1		1.2
+	6.0		1.1
3	5.9		1.0
+	5.8		0.9
2	5.2		0.3
+	5.0		0.1
1	5.0		-0.1
+	4.5		+0.4
00	4.0	G=4.9	+0.9

7	7.8	G=5.3	-2.5
+	7.8		2.5
6	7.7		2.4
+	7.3		2.0
5	7.0		1.7
+	6.8		1.5
4	6.8		1.5
+	6 1/2	5.4	1.1
3	6.1		0.7
+	6.0		0.6
2	5.7		0.3
+	5 1/2		-0.1
1	5.1		+0.3
+	5.0		+0.4
00	4 1/2	G=5.0	+0.9

7	8.0	G=5.6	- 2.4
+	8.0		2.4
6	8.0		2.4
+	7.7		2.1
5	7.2		1.6
+	7.0		1.4
4	7.0		1.4
+	7.0	5.7	1.3
3	6.7		1.0
+	4 1/2		0.8
2	6 1/2		0.8
+	6.0		- 0.3
1	5.4		+ 0.3
+	5.2		+ 0.5
00	4 1/2	G=5.7	+ 1.2

0 + 5.0

7	8.0	G=5.7	- 2.3
+	8.0		2.3
6	7.9		2.2
+	7.3		1.6
5	7.3		1.6
+	7.0		1.3
4	7.0		1.3
+	6.8		1.2
3	6.7		1.0
+	6.0		0.3
2	6.0		0.3
+	6.0		- 0.3
1	5 1/2		+ 0.2
+	5.3		+ 0.4
00	5.0	G=5.7	+ 0.7

53

00			
7	6.3	G=4.0	2.3
+	6.2		2.2
6	6.0		2.0
+	6.0		2.0
5	5.9		1.9
+	5.9		1.9
4	5.5		1.5
+	5.3		1.3
3	5.0		1.0
+	5.0		1.0
2	4.3		-0.3
+	4.0		0.0
1	3.9		+0.1
+	3.8		+0.2
00	3.2	G=4.0	+0.8

19400

20	32.2	G=2.5	29.7
+50	31.3		28.8
19	30.0		27.5
+50	28.7		26.2
18	27.5		25.0
+50	26.0		23.5
17	24.3		21.8
+50	22.5		20.0
16	21.0		18.5
+50	19.0	2.6	16.4
15	17.0		14.4
+50	15.5		12.9
14	14.5		11.9
+50	14.0		11.4
13	13.0		10.4
+50	12.8		10.2
12	12.5		9.9
+50	12.4		9.8
11	12.0	2.7	9.3

8 Davis
13 Byers
18 Shaw
Butler

34

1940

2.7

11	11.8		9.1
10	11.5		8.9
+50	11.0		8.4
9	10.6		8.0
+50	10.0		7.4
8	9.7		7.1
+50	9.0		6.4
7	8.5		5.9
+50	8.0		5.4
6	7.4	2.8	4.6
+50	6.6		3.8
5	6.0		3.2
+50	5.5		2.7
4	5.0		2.2
+50	4.5		1.5
3	3.3		0.5
+50	3.0		0.2
2	2.5		+0.3
+50	2.3		+0.5
1	2.0		+0.8
+50	1.8		+1.0
0	1.7	G.29	+1.2

18750

G 3.70

20	333		29.6
+50	328		29.1
19	316		27.9
+50	310		27.3
18	295		25.8
+50	278		24.1
17	260		22.3
+50	243	3.8	20.5
16	225		18.7
+50	209		17.0
15	185		14.7
+50	168		13.0
14	157		11.9
+50	150		11.2
13	140		10.6
+50	140	3.9	10.1
12	134		9.5
+50	128		8.9
11	125		8.6

35

18+50		39	
+50	12.5		8.6
10	12.0		8.1
+50	12.0		8.1
9	11.4		7.5
+50	11.0	4.0	7.0
8	10.8		6.8
+50	10.5		6.5
7	10.5		6.5
+50	9.5		5.5
6	9.0	Gr=4.10	- 4.9

18+00			
20	350	Gr=5.1	29.9
+50	343		29.2
19	334		28.5
+50	320		26.9
18	310		25.9
+50	295		24.4
17	275		22.4
+50	257		20.6
16	240		18.9
+50	216		16.5
15	198		14.7
+50	180		12.9
14	169		11.8
+50	160		10.9
13	154		10.3
+50	150		9.9
12	142		9.1
+50	140		8.9
11	135		8.4

19 } Doris
 14 } Shan
 18 } Byens
 Butler

	18+00		5.2
	+50	130	7.8
10		130	7.8
	+50	12.5	7.3
9		12.2	7.0
	+50	12.0	6.8
8		11.7	6.5
	+50	11.0	5.8
7		10.8	5.6
	+50	10.0	5.1
6		10.0	G=5.2 -4.8

	23+00		
	7+00	5.2	G=3.0 -2.2
	+50	5.2	-2.2
	6	5.0	-2.0
	+50	4.8	-1.8
	5	4.5	-1.5
	+50	4.0	3.1 -0.9
	4	3.5	-0.4
	+50	3.2	-0.1
	3	3.0	+0.1
	+50	2.6	+0.5
	2	2.2	+0.9
	+50	2.1	3.2 +1.1
	1	2.0	+1.2
	+50	1.8	+1.4
	0	1.8	G=3.2 +1.4

23+50

7	6.0	G=34	-2.6
+50	5.7		-2.3
6	5.4		-2.0
+50	5.0		-1.6
5	4.7		-0.8
+50	4.4	3.5	-0.9
4	3.5		-0.0
+50	3.5		0.0
3	3.2		+0.3
+50	3.0		+0.5
2	2.7		+0.8
+50	2.4	3.6	+1.2
1	2.2		+1.4
+50	2.0		+1.6
0	2.0	G=36	+1.6

24+00

7	6.2	G=39	-2.3
+50	6.0		-2.1
6	6.0		-2.1
+50	5.8		-1.9
5	4.5		0.6
+50	4.5		0.6
4	4.0		-0.1
+50	3.8		+0.1
3	3.7	4.0	0.3
+50	3.3		0.7
2	3.0		1.0
+50	2.8		1.2
1	2.5		1.5
+50	2.5		1.5
0	2.3	G=40	+1.7

24 + 50

7	7.0	G = 48	- 2.2
+50	6.7		1.9
6	6.5		1.7
+50	6.4		1.6
5	6.0		1.2
+50	5.0		0.2
4	5.1		- 0.3
+50	4.4		+ 0.4
3	4.3	4.9	0.6
+50	4.1		0.8
2	3.8		1.1
+50	3.5		1.4
1	3.3		1.6
+50	3.1		1.8
0	3.0	G = 49	+ 1.9

25 + 00

7	7.2	G = 50	- 2.2
+50	7.0		2.0
6	6.9		1.9
+50	6.7		1.7
5	6.0		1.0
+50	6.0		- 1.0
4	4.5		+ 0.5
+50	5.0		0.0
3	4.4		0.6
+50	4.2		0.8
2	4.0		1.0
+50	3.8		1.2
1	3.5		1.5
+50	3.2		1.8
0	3.1	G = 50	+ 1.9

25+50			
7	7.2	G=5.1	- 2.1
+50	7.2		2.1
6	6.8		1.7
+50	6.3		1.2
5	6.0		- 0.9
+50	4.9		+ 0.2
4	4.4		0.7
+50	4.2		0.9
3	4.3		0.8
+50	4.3		0.8
2	4.3		0.8
+50	4.0		1.1
1	3.5		1.6
+50	3.2		1.9
0	3.2	G=5.1	+ 1.9

26+00			
7	7.0	G=5.1	- 1.9
+50	6.8		1.7
6	6.5		1.4
+50	6.0		0.9
5	5.7		- 0.6
+50	4.9		+ 0.2
4	4.5		0.6
+50	4.2	5.0	0.8
3	4.3		0.7
+50	4.2		0.8
2	4.0		1.0
+50	3.7		1.3
1	3.5		1.5
+50	3.2		1.8
0	3.0	G=5.0	+ 2.0

8.
15.
18.

0+50 So. of Sta 0+00

7	54	G=3.2	-2.2
+50	55		2.3
6	53		2.1
+50	51		1.9
5	49		1.7
+50	50		1.8
4	49		1.7
+50	48		1.6
3	47	3.3	1.4
+50	45		1.2
2	44		-1.1
+50	33		00
1	35		-0.2
+50	30		+0.3
0	29	G=3.3	+0.4

1+00 So.

7	60	G=3.4	-2.6
+50	56		2.2
6	59		2.5
+50	57		2.3
5	53		1.9
+50	52		1.8
4	52		1.8
+50	49	3.5	-1.4
3	49		1.4
+50	48		1.3
2	44		0.9
+50	40		-0.5
1	34		+0.1
+50	31		+0.4
0	30	G=3.6	+0.5

1 + 5.0 50

7	90	G=4.3	-4.7
+50	90		4.7
6	90		4.7
+50	90		4.7
5	80		3.7
+50	7.1		2.8
4	61		1.8
+50	60		1.7
3	58	H.4	-1.5
+50	56		1.1
2	5.2		0.8
+50	40		0.6
1	45		-0.1
+50	40		+0.4
0	29	G=4.4	+0.5

2 + 0.0 50

7	99	G=4.5	-5.4
+50	100		5.5
6	100		5.5
+50	100		5.5
5	99		5.4
+50	95		5.0
4	90	F.1	4.5
+50	75		3.0
3	65	H.6	-1.9
+50	59		1.3
2	55		0.9
+50	51		0.5
1	49		-0.3
+50	41		+0.5
0	40	G=4.6	+0.6

41

2+50 50			
7	10.1	G=4.9	-5.3
+50	10.2		5.4
6	10.2		5.4
+50	10.1		5.3
5	10.1		5.3
+50	10.0		5.2
4	9.9		4.9
+50	9.1	4.9	-4.2
3	8.5		3.6
+50	8.2		3.3
2	6.0		1.1
+50	5.1		0.5
1	5.0		0.1
+50	5.0		-0.1
0	4.2	G=4.9	+0.7

42

3+00 50			
7	10.2	G=5.1	-5.1
+50	10.2		5.1
6	10.6		5.5
+50	10.6		5.5
5	10.3		5.2
+50	10.3		5.2
4	10.1		5.0
+50	10.0		-4.9
3	9.3		4.2
+50	8.8		3.7
2	7.3		2.2
+50	6.1		1.0
1	5.2		-0.1
+50	5.0		+0.1
0	4.5	G=5.1	+0.6

Cross Section of Arctic St. So. line 'B' St to N. line Date

	75' St - 12' Sidewalks - 1275' quarters +	1275' quarters - 14' Walks - 13' 4/100 Elev		
	1.92	18.36	16.44 Plg ch. SW India & B	
	S. Line 'B' St			
W	on paving	6.9	11.5	
1+7	" " com'rd gutter	7.16	11.20	
ch	" "	6.89	11.47	
ch	" "	6.57	11.79	
C	N 1/2 paved - south	6.22	12.14	
ch		6.2	12.2	
ch.		6.0	12.4	
E.		5.7	12.7	
	So. ch			
E.	on curb.	5.86	12.50	
ch		6.1	12.3	
ch		6.1	12.3	
C		6.2	12.2	
ch		6.3	12.1	
ch		6.7	11.7	
W		6.8	11.6	

Davis
Moore
Boille

Arctic St.

43

		So. ch 'B' St.	
W		6.8	11.6
ch		6.6	11.8
ch		6.4	12.0
C		6.4	12.0
ch		6.2	12.2
ch		5.8	12.6
E.	on paving	5.95	12.41
	♀ B		
E	on paving	5.90	12.46
ch		5.7	12.7
ch		6.1	12.3
C		6.2	12.2
ch		6.5	11.9
ch		6.9	11.5
W		6.8	11.6

18.36

No 41

W	69	11.5
Ch	66	11.8
4	64	12.0
C	62	12.2
4	61	12.3
Ch	59	12.5
E on paving	591	12.45
	No Ch	
E on Ch	590	12.46
Ch	60	12.4
4	61	12.3
C	62	12.2
4	63	12.1
Ch	67	11.7
W	69	11.5

Note Cross Sections on half of St. at a time on acct of cars.

Arctic St.

44

No line B. 54

4	61	12.3
E4	61	12.3
Ch	60	12.4
E	58	12.6
	+ 50	
E	50	13.4
+ 2	44	14.0
+ 10	44	14.0
Ch	56	12.9
4	59	12.5
C	60	12.4
	+ 00	
C	59	12.5
4	57	12.7
Ch	57	12.7
4	49	13.5
E	47	13.7

Arctic St.

18.36

1+50

E 46 13.8

cl 48 13.6

H 56 12.8

C 55 12.9

2+00

C 54 13.0

H 56 13.0

cl 55 12.9

H 48 13.6

E 44 14.0

2+50

E 42 14.2

H 46 13.8

cl 54 13.0

H 52 13.2

C 50 13.4

3+00 S. Line 'A' St.

C 49 13.5

H 51 13.3

cl 51 13.3

H 47 13.7

E 44 14.0

45

T.P. 6.23 12.74 5.85 12.51

No. line 'B' St.

W 68 11.7

cl 69 11.8

H 66 12.1

+50

H 64 12.3

cl 70 11.7

W 74 11.3

1+00

W 65 12.2

cl 63 12.4

+2 70 11.7

+7 64 12.3

H 63 12.4

1+50

H 62 12.5

+10 68 11.9

cl 59 12.8

W 60 12.7

18.74

2400

W

+10

Cl

H

2450

H

+8

Cl

W

3400 = S.L. A. St.

W

Cl

H

So Cl. A St.

W

Cl

H

C

H

Cl

E

62

59

65

60

57

62

56

60

60

60

58

60

59

54

52

54

54

52

12.5

12.8

12.2

12.7

13.0

12.5

13.1

12.7

12.7

12.7

13.2

12.7

12.8

13.3

13.5

13.3

13.3

13.5

Arctic St

46

So. A. St

E

Cl

H

C

H

Cl

W

Cl. A. St.

W

Cl

H

C

H

Cl

E

47

52

52

52

55

56

56

57

54

52

50

49

47

44

14.0

13.5

13.5

13.5

13.2

13.1

13.1

13.0

13.3

13.5

13.7

13.8

14.0

14.3

1874
No 4 A St.

E	46	141
cl	47	140
L	49	138
C	50	137
il	52	135
cl	54	133
W	56	131

No cl A St

W.	61	126
cl	60	127
L	53	134
il	51	136
O	50	137
L	46	141
cl	47	140
E	46	141

Arctic St.

47

No line A St.

E	44	143
+10	43	144
cl	51	136
L	47	140
C	48	139
il	49	138
cl	55	132
W	53	134

+55

W.	40	147
cl	51	136

+50

W	41	146
cl	45	142
il	45	142

+100

il	40	147
cl	39	148
W	39	150

18.74

1+50

W		40	14.7
cl		38	14.9
4		36	15.1
T.P	6.65	21.66	273
			15.01

0+50 No. of 29" St.

E		57	16.0
+9		62	15.5
cl		72	14.4
4		73	14.4
C		73	14.4

1+00

C		68	14.9
4		68	14.9
cl		68	14.9
+3		58	15.9
E		51	16.6

48

1+50

E		53	16.4
+10		51	16.6
cl		65	15.2
4		63	15.4
C		64	15.3

2+00

W		65	15.2
cl		63	15.4
4		62	15.5
C		59	15.8
4		60	15.7
cl		60	15.7
+2		48	16.9
E		44	17.3

21.66

21.50

E	41	17.6
410	49	16.8
Cl	56	16.1
4	55	16.2
C	58	15.9
4	59	15.8
Cl.	60	15.7
W	64	15.3

3+00 = S Line Ash

N	61	15.6
Cl	57	16.0
4	52	16.5
C	49	16.8
4	52	16.5
Cl.	52	16.5
42	48	16.9
E	47	17.0

Arctic St.

49

So Cl. Ash

E	44	17.3
Cl	48	16.9
4	57	15.6
C	50	16.7
4	52	16.5
Cl	56	16.1
W	60	15.7

So 4L

W	58	15.9
Cl	53	16.2
4	52	16.5
C	49	16.8
4	49	16.8
Cl	46	17.1
E	44	17.3

21.66

♀ Ash St

E	42	17.5
cl	45	17.2
↓	48	16.9
C	48	16.9
↓	49	16.8
cl.	51	16.6
W.	56	16.1

No 2

W.	57	16.0
cl.	53	16.4
↓	49	16.8
C	48	16.9
↓	48	16.9
cl.	43	17.4
E	41	17.6

Arctic St.

50

No cl

E	37	18.0
cl	43	17.4
↓	46	17.1
C	47	17.0
↓	49	16.8
cl	53	16.4
W.	56	16.1

No line Ash

W.	59	15.8
cl	51	16.6
↓	48	16.9
C	46	17.1
↓	46	17.1
cl.	41	17.3
E	44	17.3

21.66

+57 No Ash

E	32	18.5
U	36	18.1
U	40	17.7
C	41	17.6
U	42	17.3
Cl	48	16.9
N	52	16.5

1+00

N	47	17.0
Cl	41	17.6
U	40	17.7
C	34	18.3
U	32	18.5
Cl	23	19.4
E	22	19.5

Arctic St

51

1+50

E	15	20.2
Cl	19	19.8
U	26	19.1
C	28	18.9
U	31	18.6
Cl	37	18.0
N	40	17.7

T.P

8.54

27.08 3.12 18.54

2+00

N	6.5
Cl	8.5
U	8.1
C	7.8
U	7.5
U	6.6
E	6.1

27.08

2450

E	50
Ch	59
H	67
C	73
H	78
Ch	79
W	78

3100 S. Line Beech.

W	78
Ch	76
H	72
C	66
H	66
Ch	58
E	47

Arctic St.

52

So. Ch. Beech

E	59
Ch	62
H	66
C	66
H	71
Ch	76
W	78

So. Ch.

W	76
Ch	70
H	67
C	64
H	62
Ch	59
E	58

27.08

♀ Beech St

E	5.5
cl	5.7
4	6.1
C	6.3
4	6.4
cl	6.9
W	7.4

No 41

W	7.4
cl	6.7
4	6.2
C	6.2
4	5.8
cl	5.4
E	5.1

Arctic St

53

No cl

E	5.6
cl	5.8
4	5.9
C	6.0
4	6.4
cl	6.8
W	7.3

Line Beech St

W	6.7
cl	6.8
4	6.8
C	5.9
4	5.6
cl	5.4
E	5.2

27.08
+ 50 No Beach

F 5.1

cl 5.3

z 5.0

c 5.3

z 6.2

cl 6.6

w 6.4

+ 80

w 7.0

cl 6.5

1400

w 5.8

cl 6.2

z 5.0

c 4.6

z 4.3

cl 4.4

E 4.3

Arctic St.

54

1450

E 3.0

cl 3.4

z 3.6

c 3.8

z 4.6

cl 5.3

w 5.1

2400

w 4.3

cl 4.2

z 3.8

c 2.9

z 2.9

cl 2.4

E 1.9

27.08

24.50

E 0.5

cl 1.4

1/4 2.0

c 2.0

1/2 3.1

cl 3.2

w 3.2

T.P 9.57 34.22 2.43 24.65

3+00- S line Cedar

w 9.2

cl 9.2

1/4 8.9

c 8.3

1/4 8.2

cl 8.0

E 7.6

55

S. Ch.

E 7.6

cl 8.1

1/4 8.2

c 8.4

1/2 8.6

cl 9.2

w 9.3

S. 1/4

w 9.0

cl 8.7

1/4 8.7

c 8.2

1/4 7.9

d 7.8

E 7.4

34.22

Q. Cedar St

E	69
Ch	72
H	77
C	80
H	81
Ch	82
W.	87

No H

W.	86
Ch	81
H	80
C	78
H	76
Ch	71
E.	67

Arctic St

56

No Ch

E	64
Ch	73
H	73
C	78
H	81
Ch	85
W.	89

No. line Cedar St

W.	77
Ch	73
H	71
C	80
C	76
H	73
Ch	69
H	54
E.	55

3422

+10 No of N.L. Cedar

E	43
+10	49
Cl	61
1/2	70
C	74
+9	78
1/2	62
Cl	67
W	70
	+50
W	68
Cl	65
1/2	65
+4	76
C	68
+6	71
1/2	58
Cl	51
+1	34
E	31

1+00

E	32
Cl	36
+2	49
1/2	57
+3	58
+5	67
C	66
+9	69
1/2	56
Cl	65
W	67
	+50
W	78
Cl	71
1/2	64
C	63
1/2	55
Cl	50
Cl on concrete Cl	527
E	42

Note: Cl. T Sidewalk in on E. Side bet 1+50 & 2+00

3422

2+00

E 43

Cl on Concrete Cl 494

4 49

C 60

4 70

Cl 76

W 76

2+50

W 74

Cl 73

4 70

4 60

C 54

4 47

Cl 47

E 38

58

3+00 = 5 L. Date St

E 37

Cl 40

4 41

C 48

4 52

4 59

Cl 66

W 64

50 Cl

W 60

Cl 64

4 64

C 45

4 42

Cl 42

E 38

3422

5.4 Date St.

E 3.7

cl 4.1

if 3.9

c 4.3

4 5.0

cl 5.8

w 5.8

cl Date

w 5.8

cl 5.3

4 4.6

c 3.9

4 3.5

cl 3.4

E 2.8

Arctic St

59

No St

E 3.6

cl 3.5

4 3.7

c 3.7

4 4.3

cl 5.2

w 6.0

No Cl

w 6.1

cl 5.3

4 4.5

c 4.1

4 3.6

cl 3.6

E 3.0

Arctic St.

3422

60

No line Date St

B 2.7

A 30

L 34

C 40

L 44

Ch 52

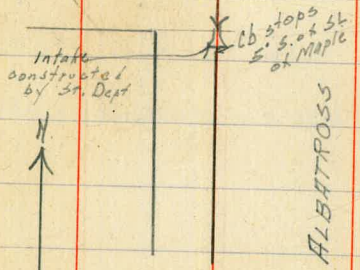
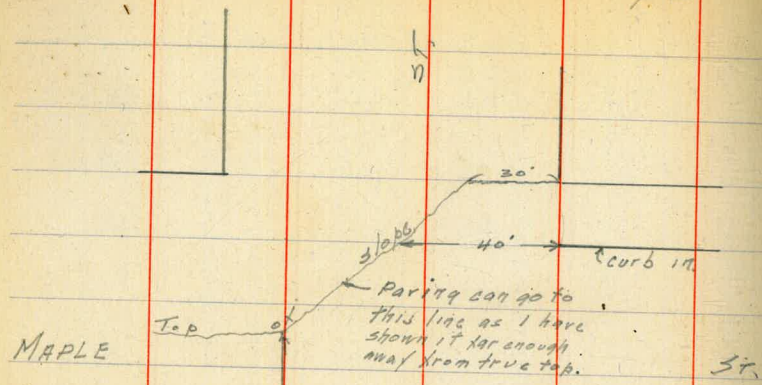
W 6.1

T.P 12.10 42.69 2.63 31.59

Bm. Pig Ch. Sw. India & Date 12.0 42.49 ✓ 42.47

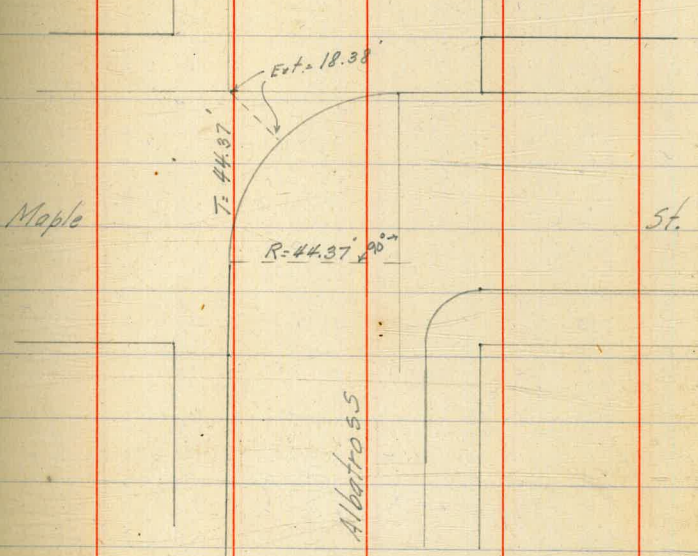
2/26/20
Gregory
L. Moore

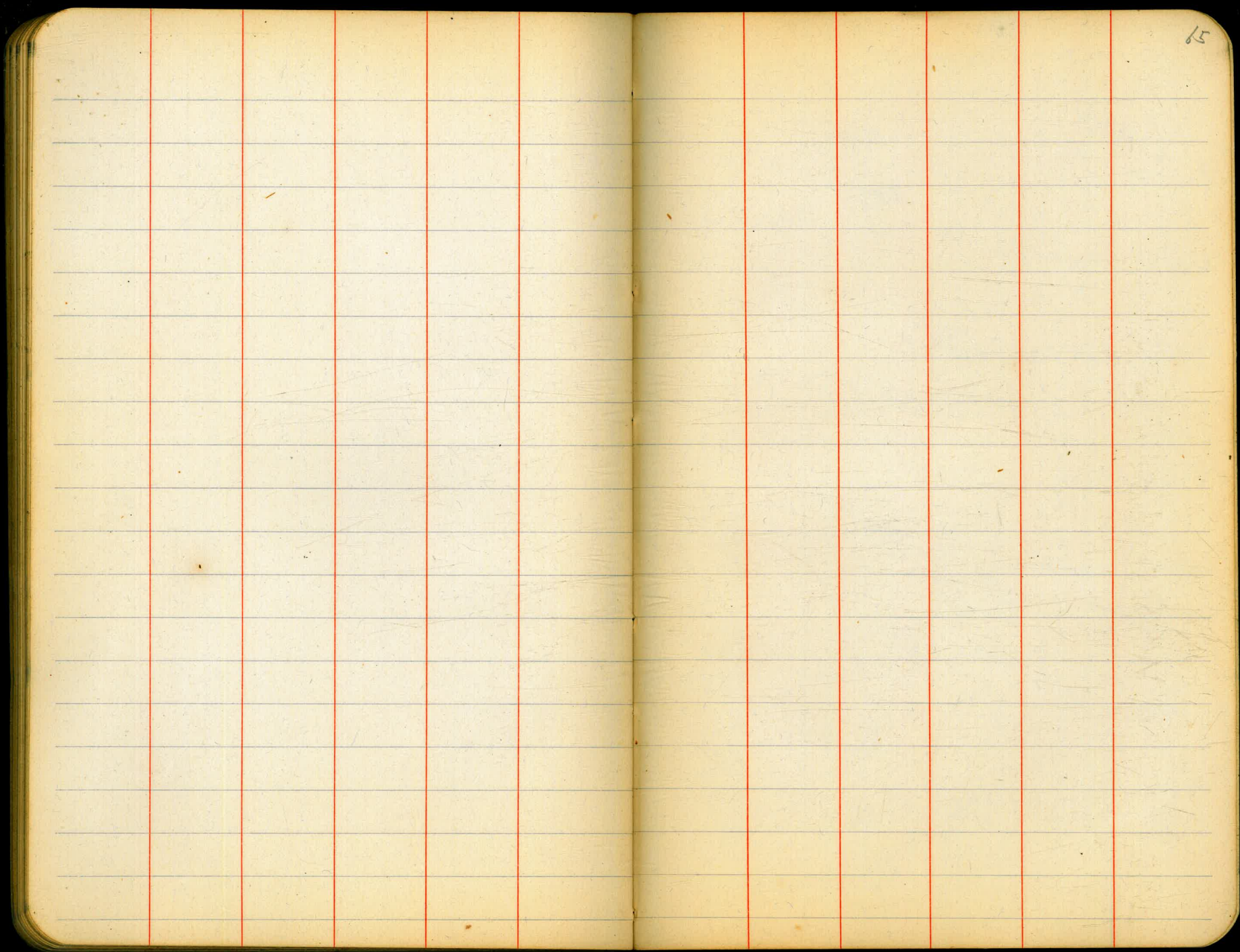
Conditions at Intersection of Albatross & Maple



ALBATROSS

Curve proposed paving of Int. of Albatross & Maple St.





Proposed Catch Basin + Storm Drain
Maple St. + Albatross St.

2+30.82 P.O.T.

1+64.65 P.O.T.

1+28.31 $\Delta 29^{\circ}43' R$

0+71.26 P.O.T.

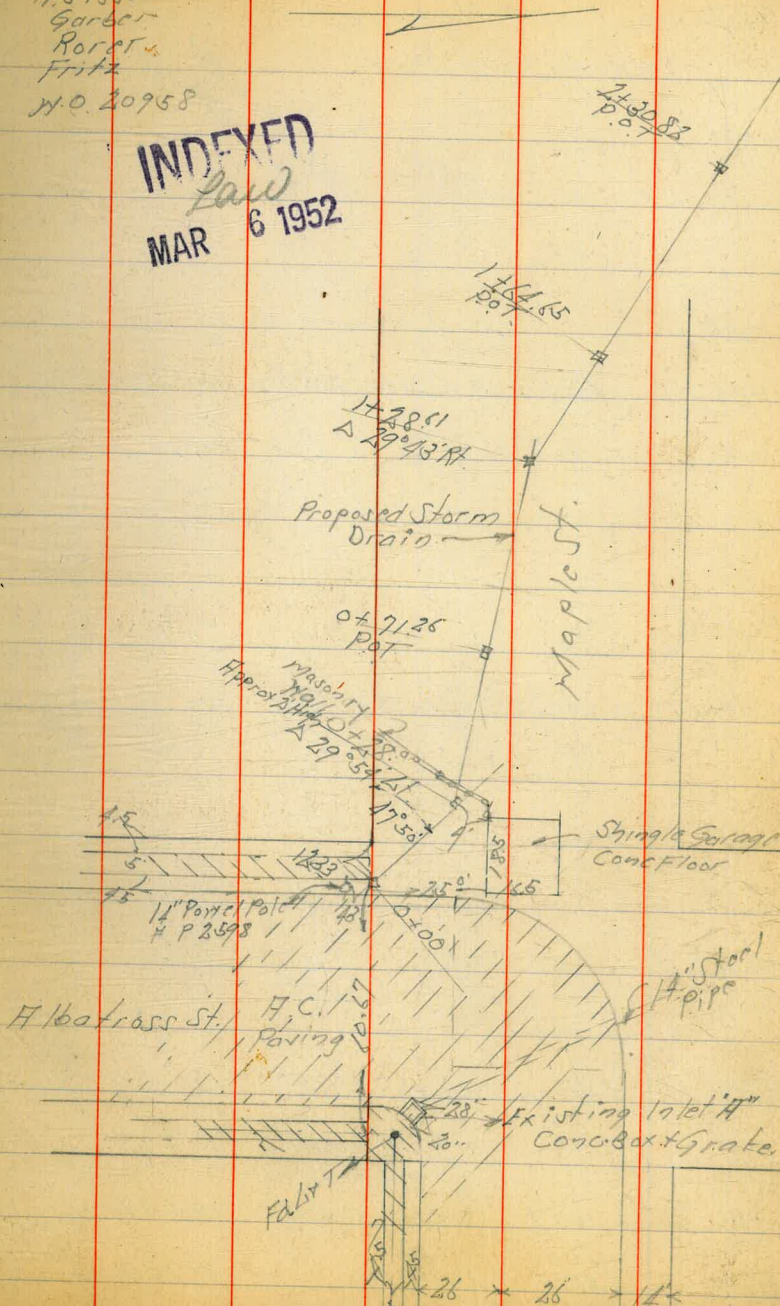
0+28.00 $\Delta 29^{\circ}51' L$

0+00

March 5, 52
F. Sisson
Garber
Rorer
Fritz
N.O. 20958

INDEXED
Law
MAR 6 1952

66



TP 0.53 149.822 12.055 149.292

+10

+79

+73 5.5 Δ of $\frac{1}{2}$ - $\frac{1}{2}$ 20" Fuc. Tree

TP 0.91 161.347 12.79 160.437

+52

+17

TP 2.73 173.227 12.93 170.427

+10

183.437

4

8

RL

18

154.3 151.2 141.5 139.8 135.3 136.3 148.9 148.1
20 10 19 21.5 20 25.0 13.4 13.2
30

157.7 156.1 154.3 145.3 144.9 156.9 157.7
20 5 9.0 10 16.4 1.4 3.4
30

158.1 159.0 157.9 156.7 160.0 160.5
20 3 3.4 4.6 7.0 0
30

161.347

168.7 167.2 161.0 162.8 169.4
20 5 12.2 5.4 3.4
30

167.8 168.9 166.5 172.6 174.2
20 4 6.7 0.6 7.0
30

173.227

172.7 173.4 171.2 171.4 174.8
20 10 12.2 12.0 8.6
30

183.437

+69

TP 0.385 124.587 12.945 124.202

+65

+50

+49 2.0 $\frac{1}{2}$ of $\frac{1}{2}$ - Ely 8" Euc Tree

+42 2.0 $\frac{1}{2}$ of $\frac{1}{2}$ - Ely 18" Euc Tree

+36

+28.61 A Taken 90° to Back Tang

TP 0.095 137.147 12.77 137.052

17.10

149.822

$\frac{126.6}{+20}$
 $\frac{124.6}{15}$
 $\frac{121.2}{15}$
 $\frac{111.8}{15}$
 $\frac{124.6}{15}$
 $\frac{123.7}{15}$

124.587

$\frac{127.6}{9.5}$
 $\frac{125.3}{10}$
 $\frac{120.8}{10}$
 $\frac{120.1}{10}$
 $\frac{114.8}{10}$
 $\frac{125.9}{10}$
 $\frac{126.7}{10}$

$\frac{133.6}{9.5}$
 $\frac{132.7}{10}$
 $\frac{129.6}{10}$
 $\frac{120.1}{10}$
 $\frac{120.6}{10}$
 $\frac{130.4}{10}$
 $\frac{131.7}{10}$

$\frac{133.3}{11.2}$
 $\frac{135.1}{20}$
 $\frac{130.3}{10}$
 $\frac{123.3}{10}$
 $\frac{123.1}{10}$
 $\frac{133.6}{10}$
 $\frac{134.8}{10}$

$\frac{146.7}{+9.6}$
 $\frac{133.2}{10}$
 $\frac{125.2}{10}$
 $\frac{124.2}{10}$
 $\frac{137.3}{10}$
 $\frac{140.1}{10}$

137.147

$\frac{151.5}{+17}$
 $\frac{136.5}{18}$
 $\frac{130.7}{10}$
 $\frac{131.5}{10}$
 $\frac{144.8}{10}$
 $\frac{143.8}{10}$

149.82

+62

+45

TP

2.98

102.487

12.65

99.507

025454

213082

+24

2+06

TP

0.245

112.157

12.675

111.912

+92

1+81

12.4587

Lt.

Z

PK

70

98.3	97.4	97.1	94.6	94.7
42 15	51	54 5	7.9 7	7.8 15

98.6	98.7	98.1	95.7
39 15	38	44 8	48 15

102.487

110.2	106.6	99.5	99.6	99.2
20 18	56 10	127 6	126	120 15

112.6	112.2	100.1	100.2	100.2	107.3	111.5
40 15	30	121 5	120	120 3	119 8	9.7 15

112.157

119.4	112.2	101.6	100.3	101.6	117.3	118.9
52 15	124 5	230 4	243	230 2	73 5	57 15

121.3	117.8	109.8	115.0	120.9	124.3
52 15	63 10	148 5	9.6	37 3	0.5 15

12.4587

Lt

Rt

Rt

71

TP

10.78

57.787

SFC6
Maple +
State
FFed

Profile # 2281
57.88

TP

0.315

68.567

9.675

68.252

TP

0.56

77.927

12.73

77.367

TP

0.24

90.097

12.63

89.857

2+70 = Sect. of Mark to East

102.487

97.1

54
75

97.9

46
5

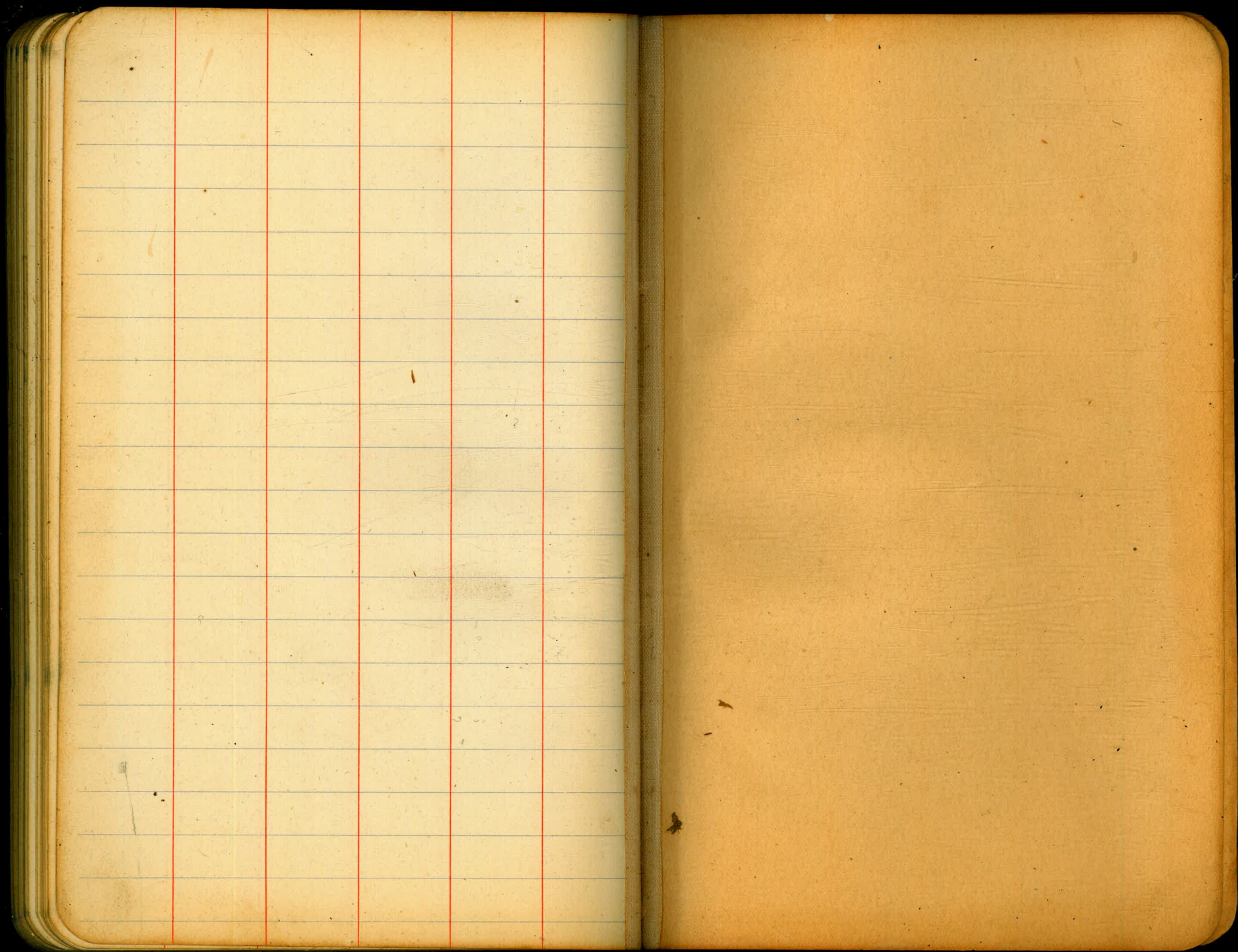
97.8

97 = Sect. of Mark
to East

97.9

97 = B of Mark

102.487



BNS on India St.

B. 54. P13 16.44
 A . . . 18.99
 ash . . . 22.97
 Beech . . . 30.42
 Cedar . . . 34.97
 Date . . . 42.47

Carl & Berger not

W. G. 8456

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

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