

Book #8, D-74
OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

MAINTENANCE.....Survey

L.O.P. &

CARL ST. CESS POOL - Drainage

From CARL ST. To Eustis St.

Road Acc't. No.

Date Filed 1932

File Main't.

A line

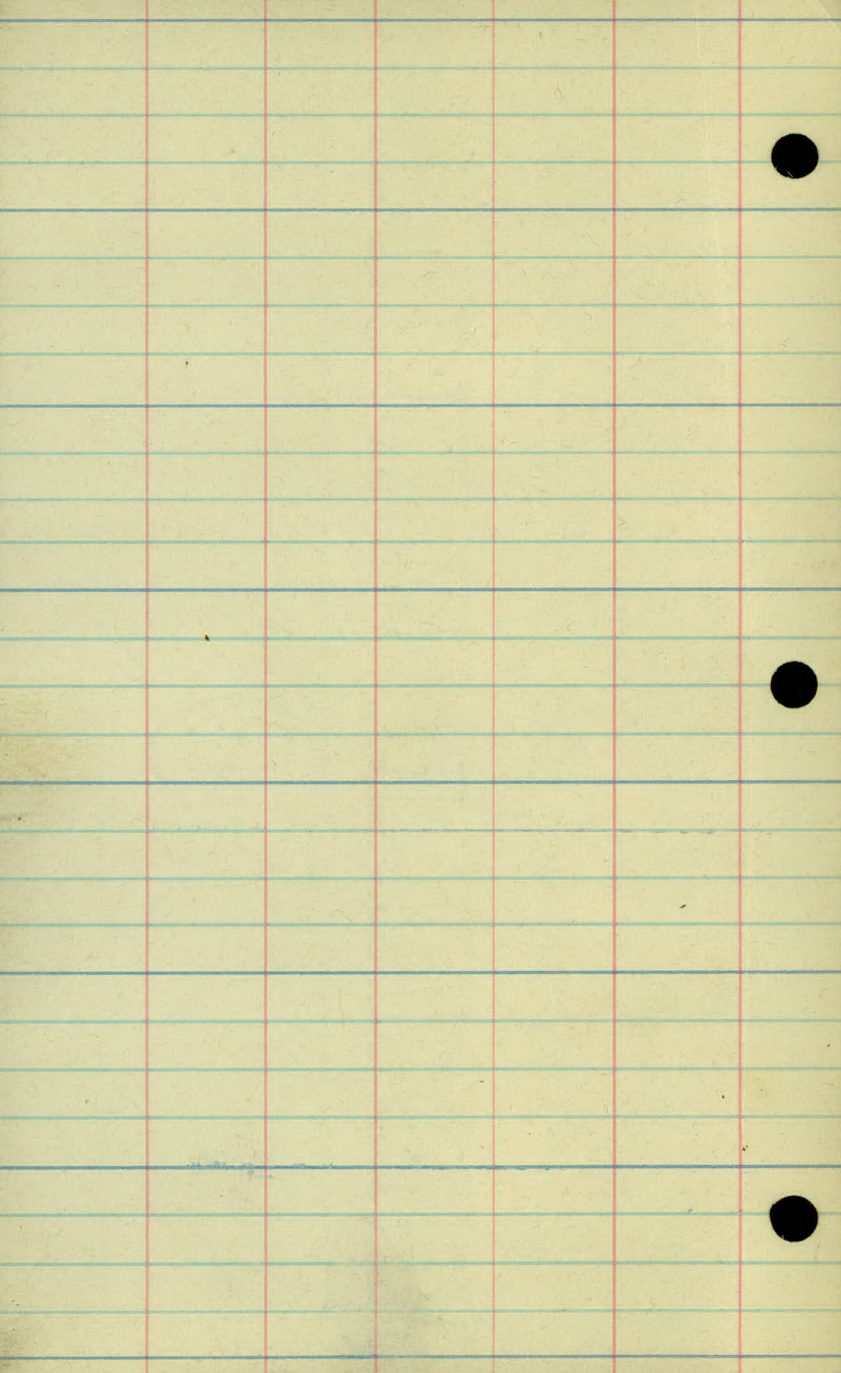
L Stone Gutter.

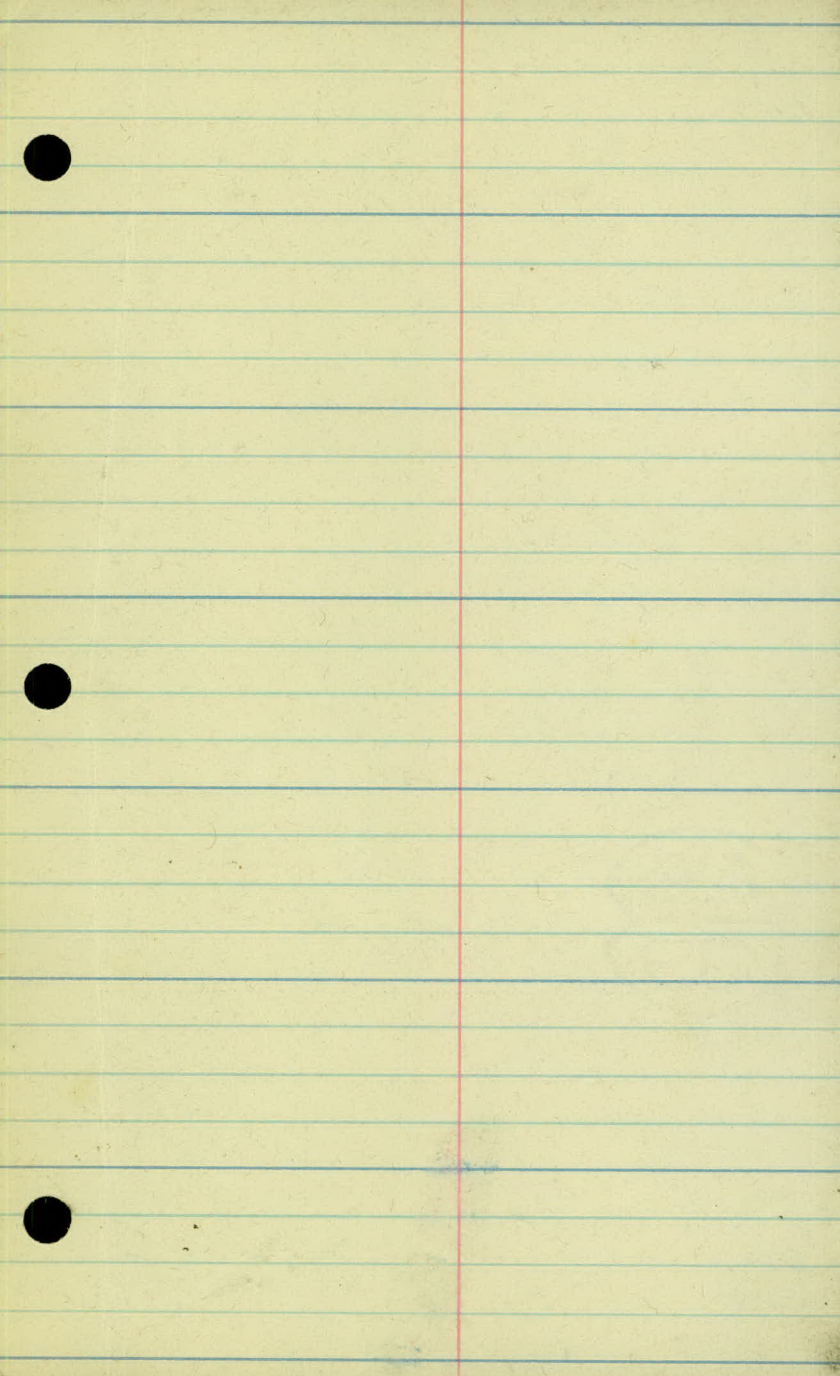
4 00 00
1 33 9

2 72 1

26 1. 4
1 1. 4

24 9. 4





B.M. 3.42 203.42 200.00

Top. W.C.B.
7.09 196.33

Top. E.C.B.
7.5 195.92

Bot. E.C.B.
17.2 186.22

F.L. X-Drain
11.7 191.72

Bot. C.B.
10.84 192.58

Top. C.B.
8.45 194.97

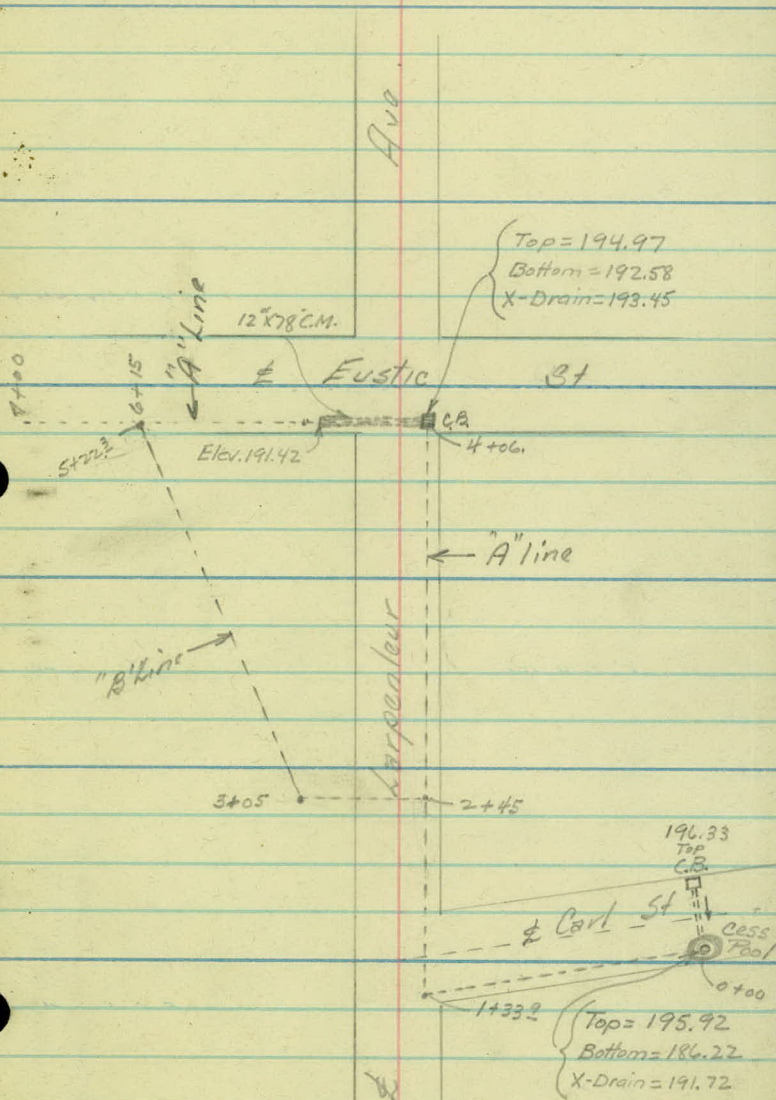
X-Drain
9.97 193.45

S. End. X-Drain
12.0 191.42

0+00

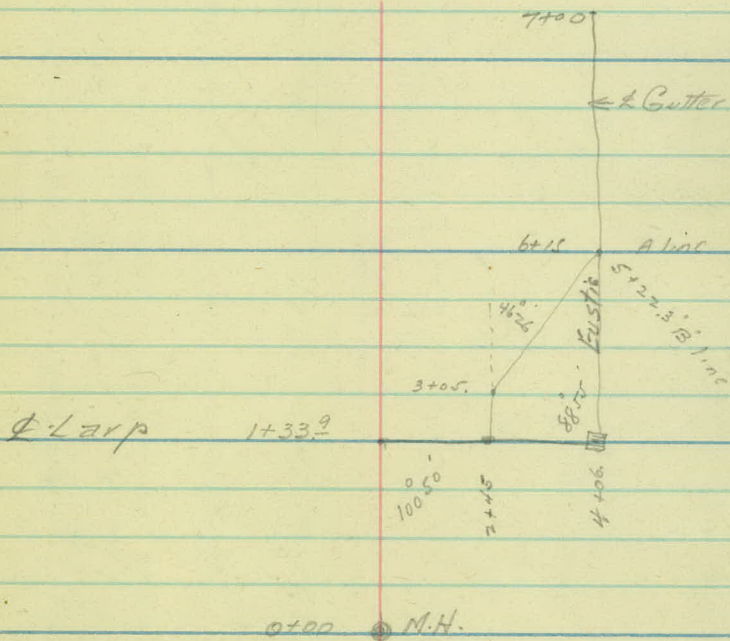
4+06

Spk. in P.P. - Carl & Larp.



B.M.

Levels



			Red.	Elev.
B.M.	3.71	203.71 [✓]	200.00	Assumed.
0+00			8.95	194.76
+50			7.2	96.51
1			6.0	97.7
+33.9	Δ PT.		4.6	99.1
+54			4.6	99.1
<u> </u>			4.4	99.3
2			6.3	97.4
+45	Δ PT.		7.0	96.7
3			7.1	96.6
+50			7.3	96.4
4+06	Δ PT.		8.7	95.0
+37			8.2	95.5
+50			8.4	95.3
5			12.9	90.8
2+45	Δ PT.		7.0	96.7
+86			5.7	98.0
+98			13.9	89.8
3+05			13.7	90.0
T.P.	1.75	91.88 13.58 [✓]		90.13 [✓]
3+50			3.4	88.5
4			5.1	86.8
+50			6.7	85.2
5			7.1	84.8
+15			6.2	85.7

A Line

set in P.R. Carl and Larp.
= Drip Stone.

= Carl

= Int Carl + Larp & Paie.

Top C.B.
& Larp.

= "B" Line =

Top Sh

Toe Slope

Top Belt. 3+05 "B" Line

91.88

+223

Int.

A Line.

7.85

84.03

"A" Line

6+00

7.0

84.9

+50

10.0

81.9

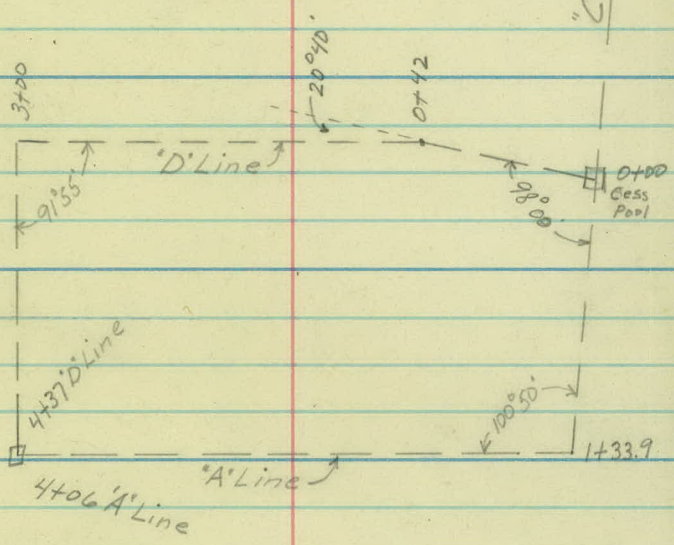
7

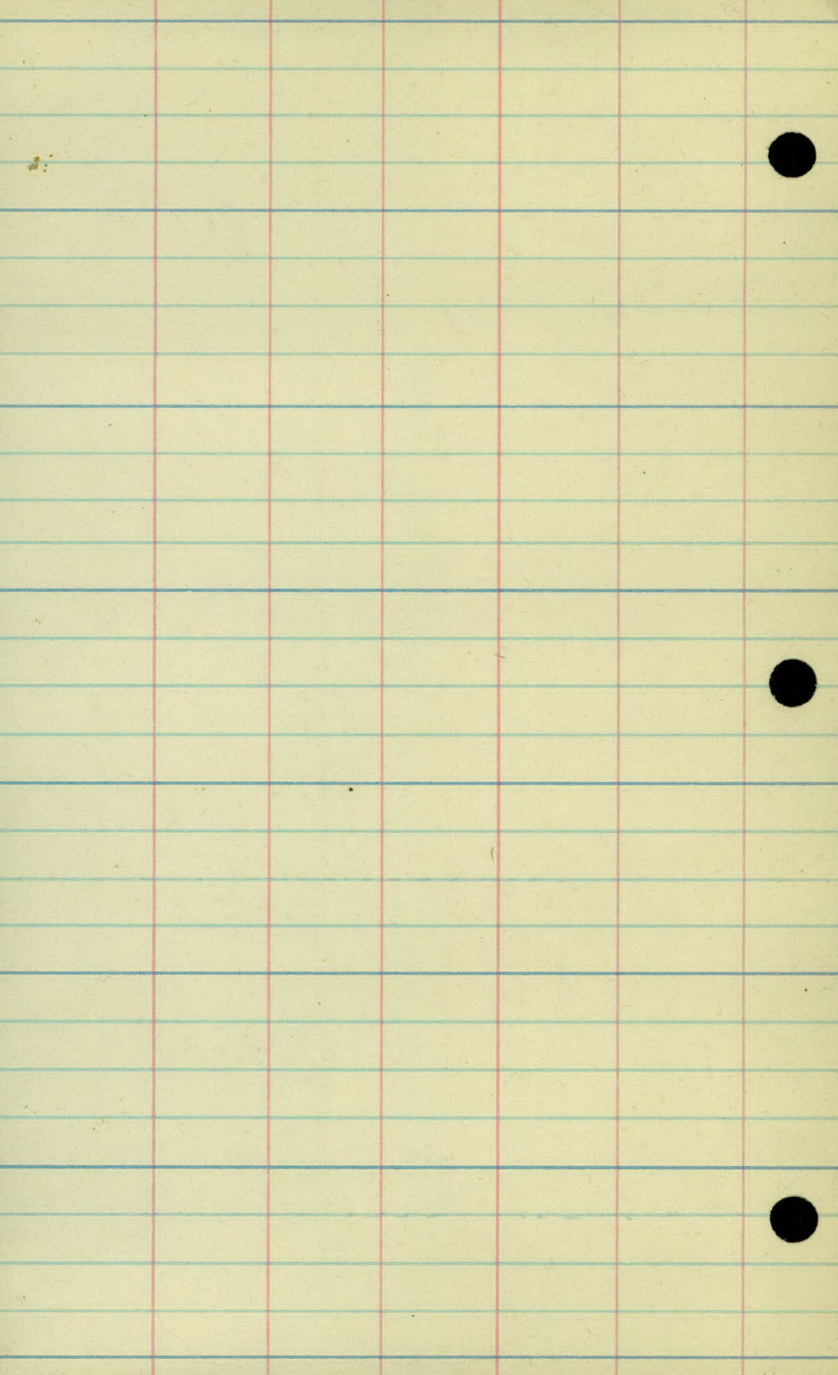
13.5

784

Stone St. 5+13

"C" Line





X-Sections
"D" Line

B.M. 1.98 201.98 200.00

0+00 Top of Cess Pool 'A' Line

+50

1

+33.9

+60 E Larpenteur Ave

0+50 'C' Line

1

T.P. 9.92 206.92 4.98 197.00

+50

2

+50

3

201.0 99.0 97.6 97.0 97.0 96.3 96.1 94.7 95.8 95.0 96.4 95.5 97.4
 $\frac{1.0}{123} \frac{3.0}{100} \frac{4.4}{85} \frac{5.0}{50} \frac{5.2}{14} \frac{5.7}{11} \frac{7.3}{6.05} \frac{6.2}{3} \frac{2.0}{16} \frac{2.0}{30} \frac{5.6}{43} \frac{6.5}{78} \frac{4.6}{100}$

00.5 96.6 96.5 96.3 95.6 96.0 95.3 96.5 97.6 98.6
 $\frac{1.5}{50} \frac{5.4}{18} \frac{5.7}{55} \frac{6.4}{7} \frac{6.0}{10} \frac{6.7}{21} \frac{5.5}{33} \frac{4.4}{46} \frac{3.4}{90} \frac{3.4}{100}$

01.3 98.3 97.7 97.7 96.7 97.4 96.6 97.6 97.8 98.8
 $\frac{0.7}{35} \frac{3.7}{8} \frac{4.3}{43} \frac{5.3}{8} \frac{4.6}{11} \frac{5.4}{23} \frac{4.4}{34} \frac{4.2}{50} \frac{3.2}{59} \frac{3.2}{72}$ House

00.9 98.6 98.0 99.0 99.0 99.0 98.4 98.2 98.4
 $\frac{1.1}{80} \frac{3.4}{50} \frac{4.0}{11} \frac{3.0}{8} \frac{3.0}{3.0} \frac{3.6}{23} \frac{3.8}{35} \frac{3.6}{50} \frac{3.6}{90}$

99.5
 2.5

97.8 97.8 96.5 96.2 95.2 96.1 95.7 96.2 96.0 98.7 00.2
 $\frac{4.2}{100} \frac{4.2}{90} \frac{5.5}{37} \frac{5.8}{24} \frac{6.8}{20} \frac{5.9}{9} \frac{5.8}{6.3} \frac{6.0}{8} \frac{3.3}{42} \frac{1.8}{106} \frac{1.8}{108}$

97.8 97.6 96.7 96.0 97.0 97.2 97.4 97.5 97.2 96.0 96.5 95.8 96.8 98.2 98.9 02.5
 $\frac{4.2}{300} \frac{4.4}{270} \frac{5.3}{250} \frac{6.0}{185} \frac{5.0}{174} \frac{4.8}{150} \frac{4.6}{100} \frac{4.5}{50} \frac{4.8}{28} \frac{6.0}{7} \frac{5.8}{5.5} \frac{6.2}{16} \frac{5.2}{30} \frac{3.8}{67} \frac{3.1}{100} \frac{4.05}{152}$

98.9 97.9 96.8 96.8 96.2 96.8 95.9 96.9 96.8 95.7 98.1 01.1
 $\frac{8.0}{45} \frac{9.0}{16} \frac{10.1}{12} \frac{10.1}{10.1} \frac{10.7}{4} \frac{10.1}{17} \frac{11.0}{30} \frac{10.0}{34} \frac{10.1}{47} \frac{11.2}{50} \frac{8.8}{85} \frac{5.8}{150}$ House

02.1 97.2 96.5 97.4 96.4 96.6 96.2 97.9 01.2
 $\frac{4.8}{50} \frac{10.4}{97} \frac{9.8}{14} \frac{10.5}{24} \frac{10.3}{37} \frac{10.7}{50} \frac{9.0}{55} \frac{5.7}{87} \frac{5.7}{150}$

05.4 04.4 98.4 97.9 96.9 97.8 97.2 98.1 98.3 97.5 98.9 03.2
 $\frac{1.5}{50} \frac{5.5}{5} \frac{8.5}{11} \frac{9.0}{15} \frac{10.0}{24} \frac{9.1}{38} \frac{7.7}{42} \frac{8.8}{50} \frac{8.6}{54} \frac{9.4}{100} \frac{8.0}{143} \frac{3.7}{143}$

05.9 02.9 99.3 98.9 98.1 98.9 97.9 98.9 99.9 04.1
 $\frac{1.0}{32} \frac{9.0}{8} \frac{7.6}{7.6} \frac{8.0}{8} \frac{8.8}{11} \frac{8.0}{22} \frac{9.0}{35} \frac{8.0}{38} \frac{7.0}{96} \frac{2.8}{150}$

06.9

206.92

3+50

4

+50

5

+13 E. Lone St.

B.M. 2.44 202.44 6.92 200.00

0+42 D" Line

1

+50

+65 Int "T" Alley

2

T.P. 6.13 201.79 6.78 195.66

+50

05.9	04.1	00.9	99.6	00.2	99.3	00.3	99.5	00.7	05.5
<u>1.0</u>	<u>2.8</u>	<u>6.0</u>		<u>6.7</u>	<u>7.6</u>	<u>6.6</u>	<u>7.4</u>	<u>6.0</u>	<u>1.4</u>
32	17	13	7.3	14	27	39	50	100	150

06.6	02.9	02.3	01.3	01.7	00.7	01.7	02.9	01.4	02.6	06.9
<u>0.3</u>	<u>4.0</u>	<u>4.6</u>	<u>5.6</u>	<u>4.8</u>	<u>6.2</u>	<u>5.2</u>	<u>4.0</u>	<u>5.5</u>	<u>4.3</u>	<u>0.0</u>
31	27	15	12	5.2	14	18	34	50	137	158

06.4	04.4	04.1	02.9	03.4	02.4	03.4	03.2
<u>0.5</u>	<u>2.5</u>	<u>2.8</u>	<u>4.0</u>	<u>3.5</u>	<u>4.5</u>		<u>3.7</u>
53	50	35	32	19	6	3.5	35

04.3
2.6

04.8
2.1

02.4

96.3
6.1

98.4	97.8	95.6		95.8	97.3	97.9
<u>4.0</u>	<u>4.6</u>	<u>6.8</u>		<u>6.6</u>	<u>5.1</u>	<u>4.5</u>
50	8	4	6.8	6	9	50

99.9	98.4	95.7		96.0	97.0	98.0
<u>2.5</u>	<u>4.0</u>	<u>6.7</u>		<u>6.4</u>	<u>5.4</u>	<u>4.4</u>
50	6	3	6.6	9	12	50

99.4	96.8		95.8	96.0
<u>3.0</u>	<u>5.6</u>		<u>6.6</u>	<u>6.4</u>
50	5	6.9	29	87

98.6	96.0		95.7	96.3	96.7
<u>3.8</u>	<u>6.4</u>		<u>6.7</u>	<u>6.1</u>	<u>5.7</u>
60	16	70	9	14	50

96.2		95.7	97.1	97.4	
<u>5.6</u>	<u>95.0</u>	<u>6.1</u>	<u>4.7</u>	<u>4.4</u>	
50	6.4	8	12	22	House

201.79

3

+50

4

+37 Top M.H.

97.4

4.4

96.2

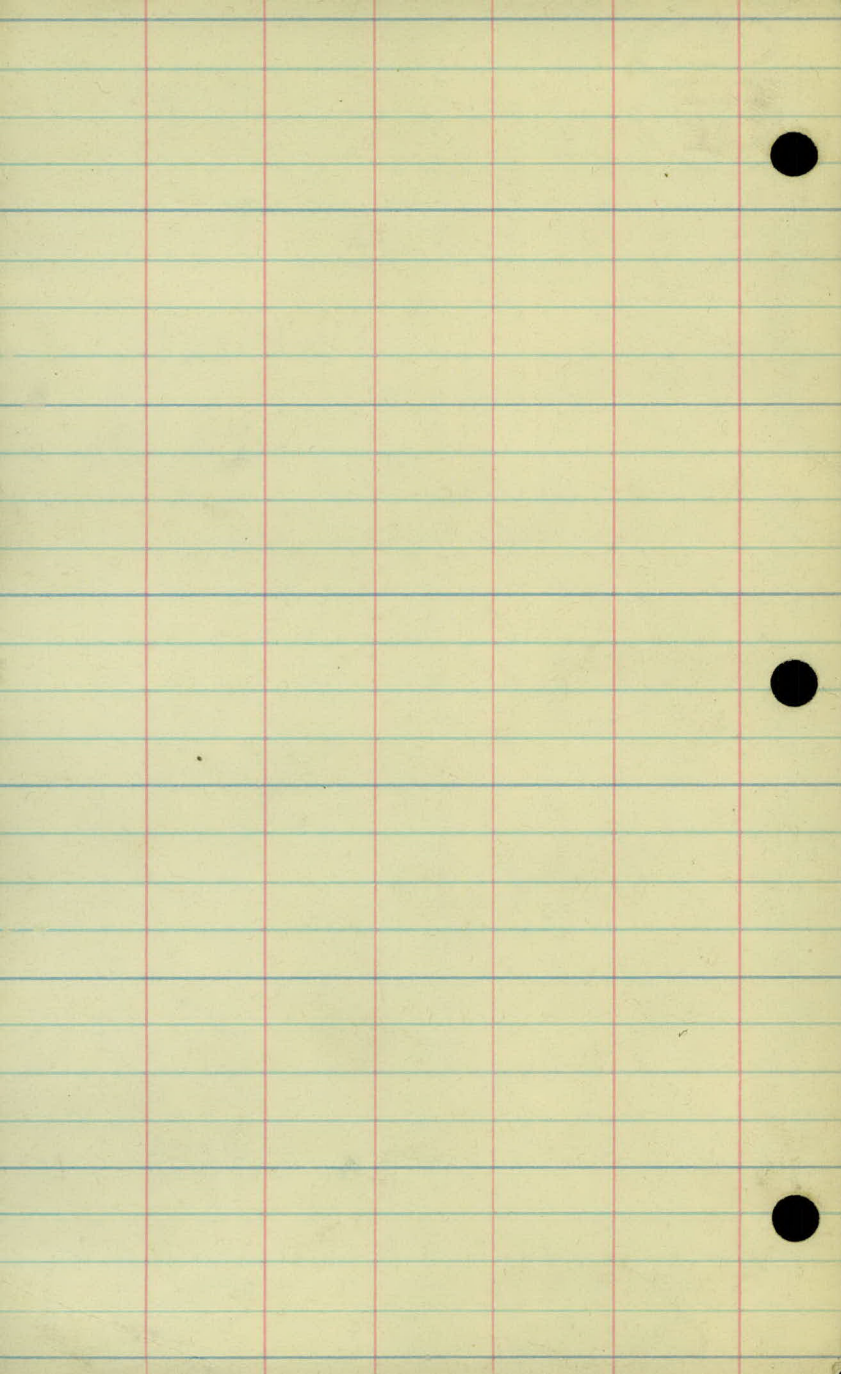
5.6

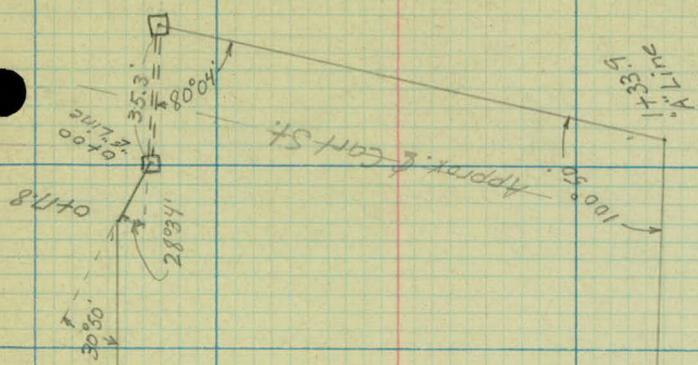
95.6

6.2

95.0

6.8



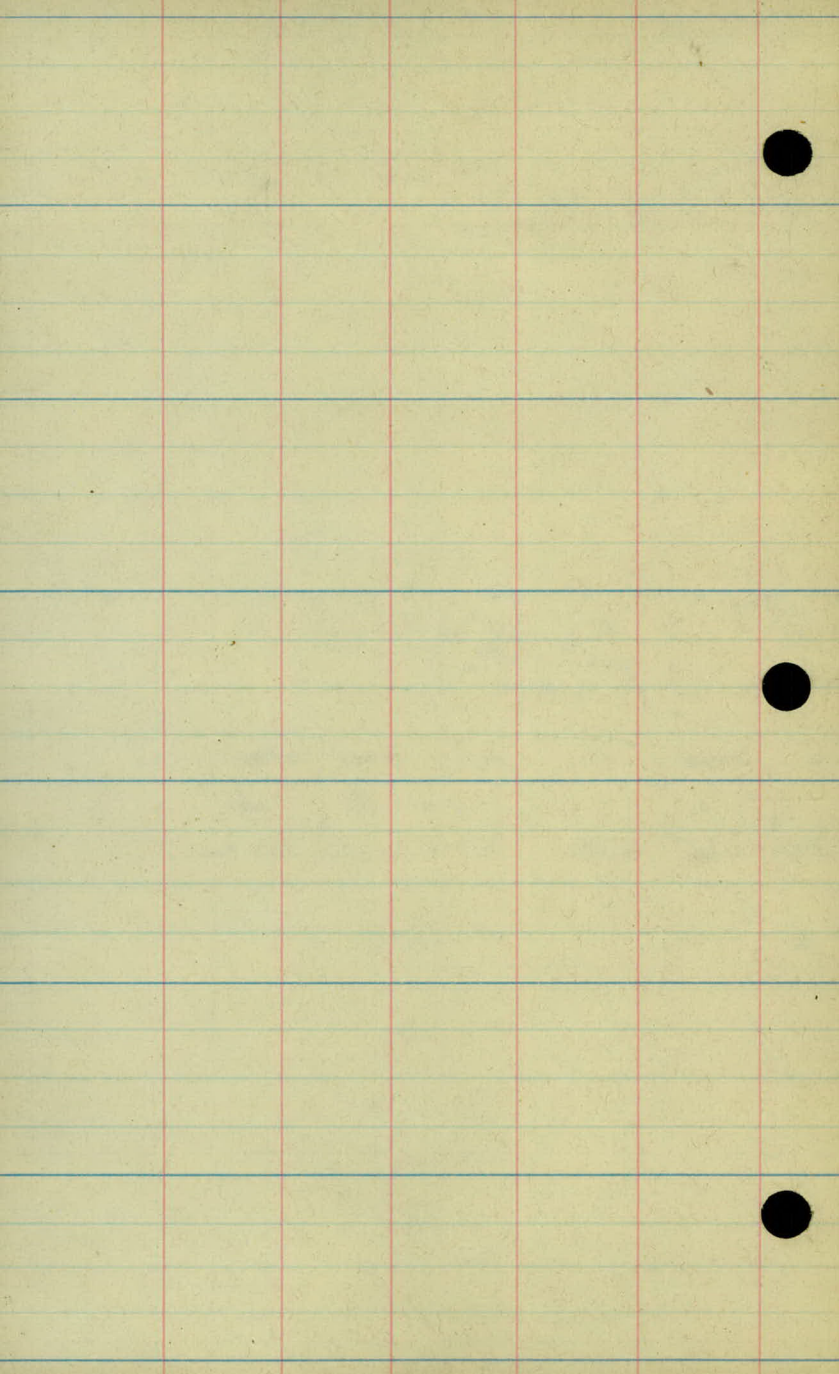


7 Carpenter St

East St.

4+02 "E Line"
4+06 "A Line"

"E" Line 7



X-Sections
'E' Line

B.M. 2.50 202.50 200.00

0+00 Top of M.H.

0+00 Bottom of M.H. "E" Line

0+17.8 A.Pt.

+50

1

+50

2

T.P. 5.93 201.39 7.04 195.46

+34

+67.2 A.P.T.

3

+50

4+02 Top M.H.

T.P. 6.50 202.79 5.10 196.29

B.M. 2.81 199.98 200.00

96.3

6.19

92.9

9.55

96.1

6.4

95.3

7.2

95.4

7.1

95.4

7.1

95.4

7.1

95.7

5.7

01.4

96.7	97.4	96.7	97.1	96.9	96.4	95.7
	4.5					

97.4	4.7	4.0	4.7	4.3	4.5	5.0	5.7
4.0	14	28	42	48	64	68	85

96.0	95.6	96.7	96.3	96.8	96.2	96.7	95.0
5.4	5.8		5.1	4.6	5.2	4.7	6.4
50	3	4.7	14	27	42	48	76

96.4	95.6	96.0	95.4
5.0		5.4	6.0
Store → 22	5.8	26	50

95.0

6.4

