

Dr 12 · BK 17

OFFICE OF COUNTY ENGINEER  
RAMSEY CO. MINN.

Drainage Survey

Grand Ave. Stillwater St.

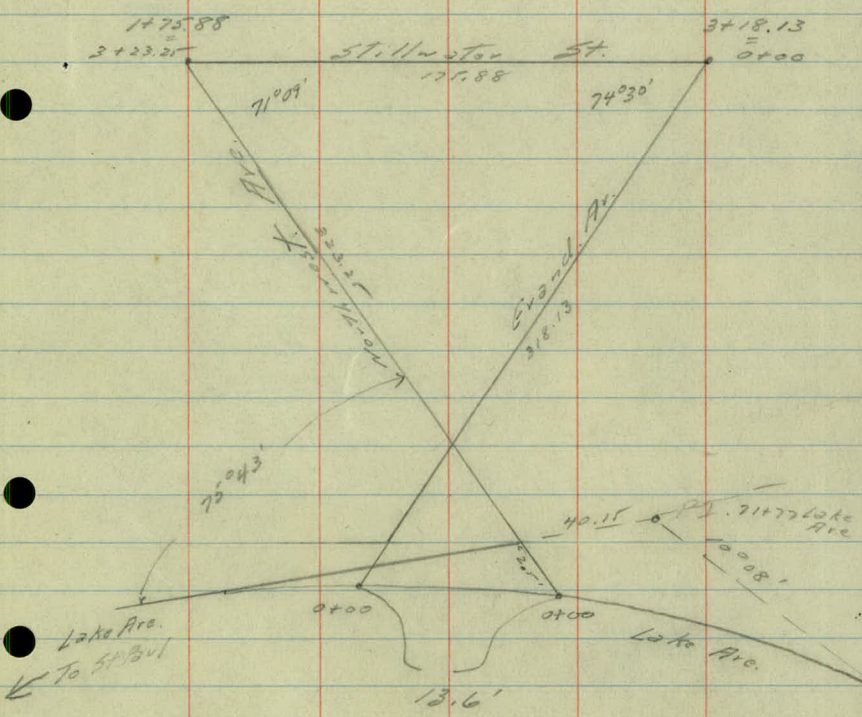
From..... To.....

Road Acc't. No. ....

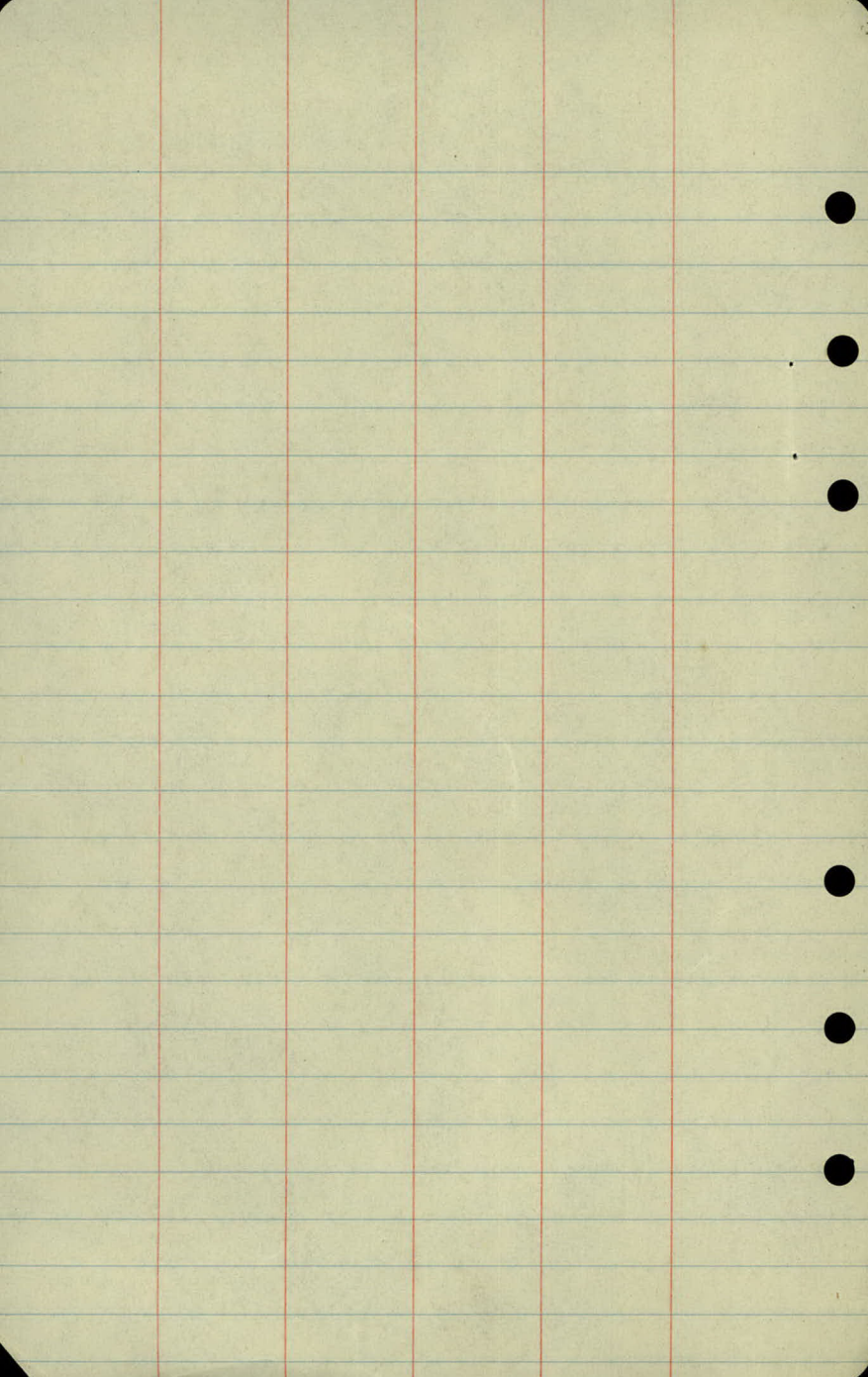
Date Filed..... File.....

North ↑

White Bear 4/28/38



Refer to Road Map Survey  
 Northwest Ave  
 Lake Ave. to Buffalo St.



1

Grand Ave., White Bear.

Sta. 0+00 = Lake Ave.

4/28/58

| Sta     | +                      | T      | -       | Elev.  |
|---------|------------------------|--------|---------|--------|
| B.M.    | 6.34                   |        |         | ?      |
| B.M.    | 3.86                   | 203.86 | (12.94) | 200.00 |
| 0+00    | Sec. along E Lake Ave. |        |         | 200.3  |
| +50     |                        |        |         | 200.1  |
| 1+00    |                        |        |         | 99.7   |
| +50     |                        |        |         | 200.0  |
| 2+00    |                        |        |         | 200.2  |
| +50     |                        |        |         | 199.9  |
| +86     | So. Ditch Stillwater   |        |         | 99.9   |
| 3+18.13 |                        |        |         | 99.8   |

Lt.

E

Rt.

Spike in P.P. @ 2<sup>nd</sup> & Portland

see Portland  
Arc. Survey

Nail in F.P. 60' Rt. St. 0+25 still water St.

$$\frac{40}{100} \quad \frac{36}{\cancel{100}} \quad \frac{23}{90}$$

$$\frac{58}{50} \quad \frac{48}{45} \quad \frac{44}{40} \quad \frac{35}{25} \quad \frac{38}{\cancel{38}} \quad \frac{41}{14} \quad \frac{37}{50}$$

$$\frac{77}{79} \quad \frac{67}{68} \quad \frac{49}{62} \quad \frac{44}{50} \quad \frac{46}{41} \quad \frac{51}{18} \quad \frac{42}{\cancel{42}} \quad \frac{45}{19} \quad \frac{38}{38} \quad \frac{31}{47}$$

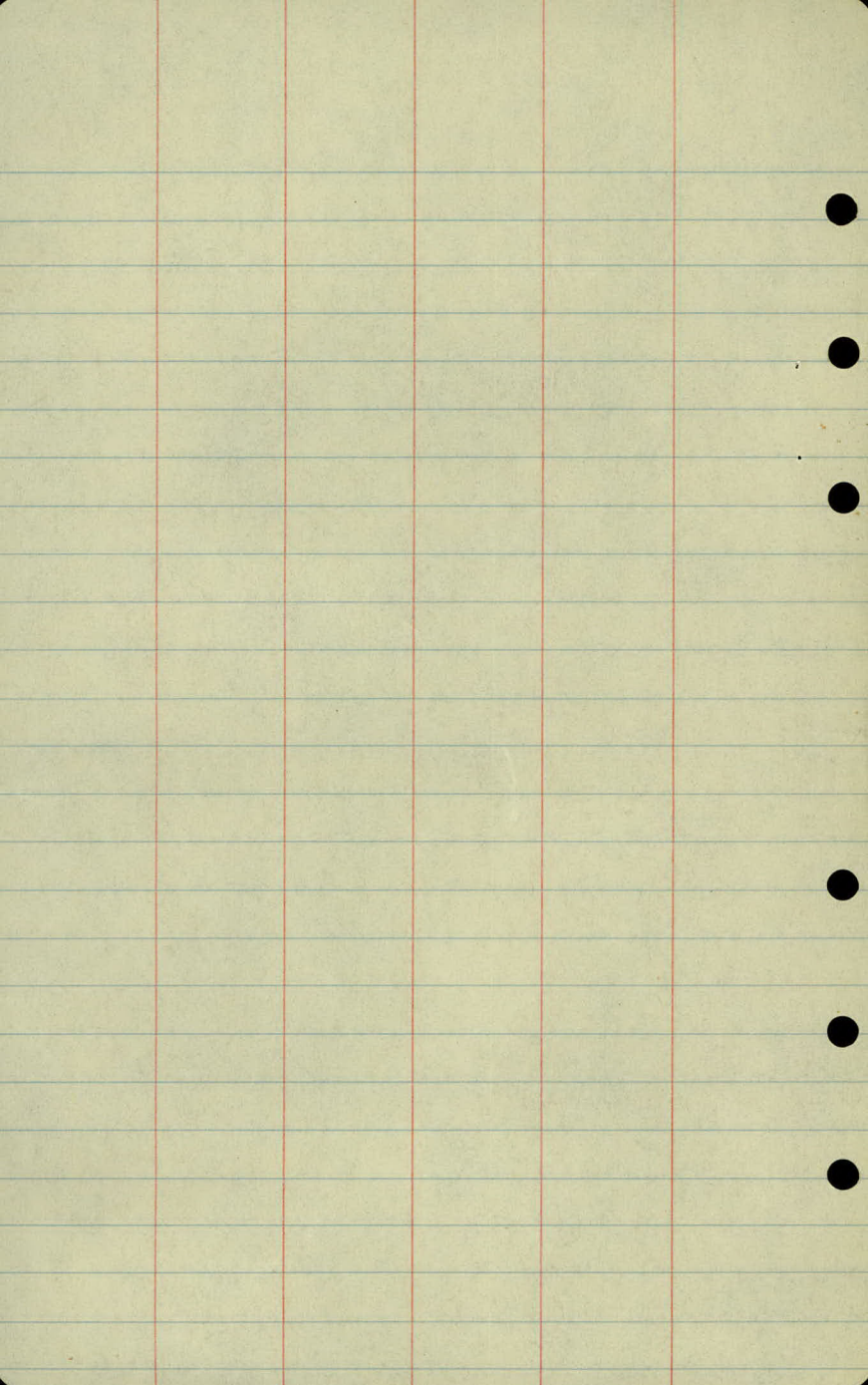
$$\frac{60}{38} \quad \frac{64}{30} \quad \frac{55}{20} \quad \frac{46}{13} \quad \frac{39}{\cancel{39}} \quad \frac{48}{19} \quad \frac{36}{36} \quad \frac{32}{50}$$

$$\frac{60}{38} \quad \frac{60}{25} \quad \frac{46}{14} \quad \frac{44}{11} \quad \frac{37}{\cancel{37}} \quad \frac{50}{18} \quad \frac{42}{28} \quad \frac{31}{36} \quad \frac{27}{50}$$

$$\frac{49}{38} \quad \frac{61}{29} \quad \frac{54}{20} \quad \frac{45}{14} \quad \frac{40}{\cancel{40}} \quad \frac{40}{16} \quad \frac{52}{23} \quad \frac{52}{28} \quad \frac{31}{36} \quad \frac{32}{46}$$

$$\frac{77}{100} \quad \frac{73}{70} \quad \frac{63}{29} \quad \frac{46}{11} \quad \frac{40}{\cancel{40}} \quad \frac{45}{27} \quad \frac{59}{32} \quad \frac{59}{34} \quad \frac{45}{37} \quad \frac{25}{41} \quad \frac{34}{50}$$

$$\frac{49}{25} \quad \frac{41}{\cancel{41}} \quad \frac{41}{11} \quad \frac{31}{50}$$



4  
Stillwater St. - White Bear.

Sta. 0+00 = Grand Ave.

4/28/38

St. +  $\pi$  - Elev.

B.M. 3.86 203.86

0+50 = 1+24 198.5

1+00 = 0+76 98.0

1+20 = 0+56  
= 10" x 30' C.M.

+50 = 0+26 98.0

1+62 = 0+14  
= 12" x 30' C.M. Parallel to Nor. West Ave.

1+62 = 0+14  
= Sec. thro culvert & parallel to N.W. Ave. 97.9

2+00 = 0-24 97.5

Lt.

E

Rt.

5

Nail in P.P. 60' Rt. Sta. 0+25 Stillwater St.

$$\begin{array}{r} 5.0 \\ 50 \end{array} \quad \begin{array}{r} 5.3 \\ 33 \end{array} \quad \begin{array}{r} 6.8 \\ 29 \end{array} \quad \begin{array}{r} 6.7 \\ 19 \end{array} \quad \begin{array}{r} 5.7 \\ 8 \end{array} \quad \begin{array}{r} 5.4 \\ 8 \end{array} \quad \begin{array}{r} 5.7 \\ 8 \end{array} \quad \begin{array}{r} 6.3 \\ 11 \end{array} \quad \begin{array}{r} 6.4 \\ 17 \end{array} \quad \begin{array}{r} 7.5 \\ 24 \end{array} \quad \begin{array}{r} 8.2 \\ 25 \end{array} \quad \begin{array}{r} 8.2 \\ 26 \end{array} \quad \begin{array}{r} 7.6 \\ 28 \end{array} \quad \begin{array}{r} 6.0 \\ 50 \end{array}$$

$$\begin{array}{r} 7.0 \\ 50 \end{array} \quad \begin{array}{r} 7.0 \\ 37 \end{array} \quad \begin{array}{r} 8.0 \\ 24 \end{array} \quad \begin{array}{r} 7.4 \\ 11 \end{array} \quad \begin{array}{r} 6.5 \\ 9 \end{array} \quad \begin{array}{r} 6.1 \\ 6 \end{array} \quad \begin{array}{r} 5.9 \\ 5.9 \end{array} \quad \begin{array}{r} 6.7 \\ 9 \end{array} \quad \begin{array}{r} 8.6 \\ 16 \end{array} \quad \begin{array}{r} 9.0 \\ 23 \end{array} \quad \begin{array}{r} 9.7 \\ 24 \end{array} \quad \begin{array}{r} 9.7 \\ 25 \end{array} \quad \begin{array}{r} 7.7 \\ 29 \end{array} \quad \begin{array}{r} 7.5 \\ 50 \end{array}$$

194.26

100  
9.6

194.46

100  
9.4

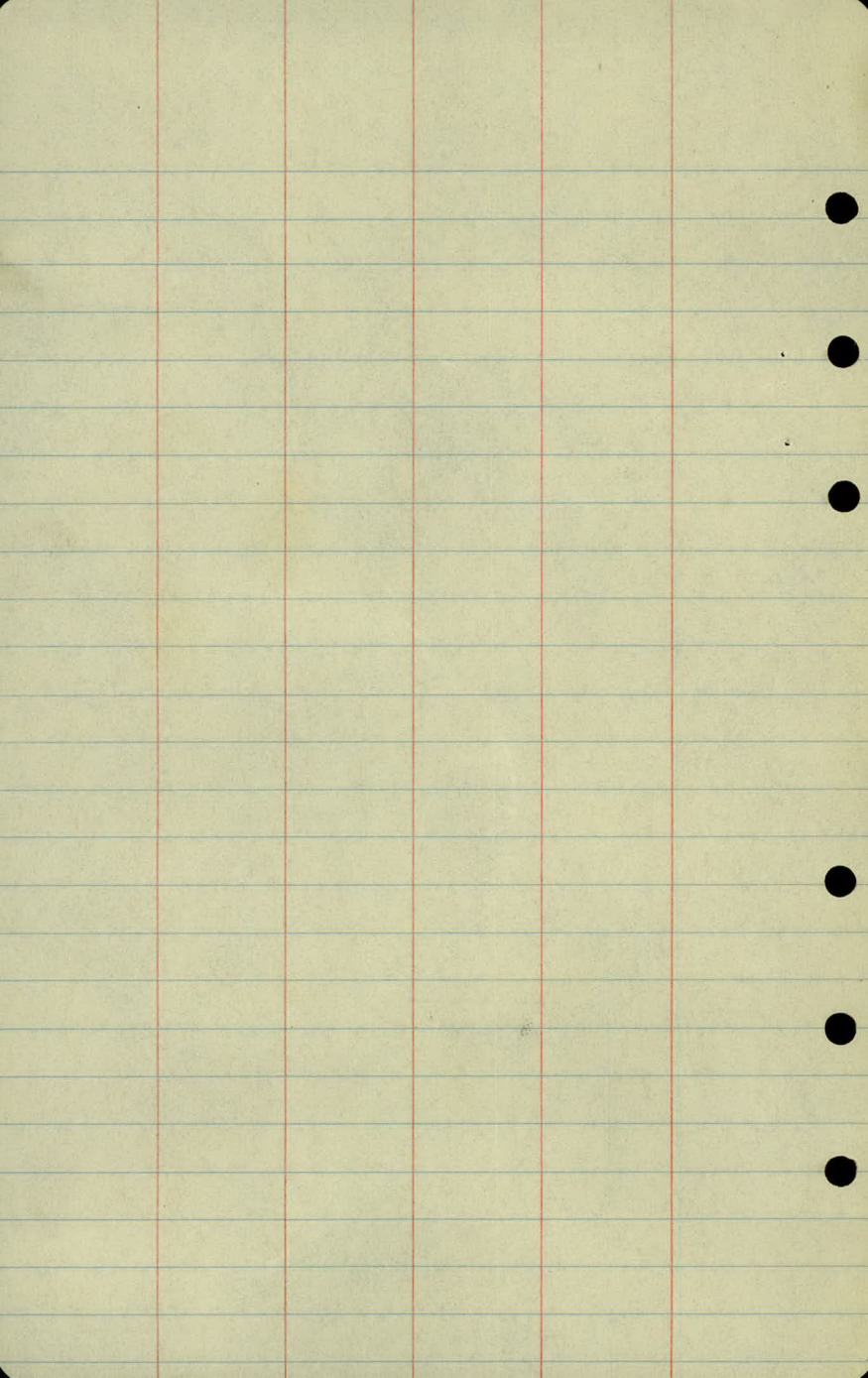
16

$$\begin{array}{r} 8.8 \\ 26 \end{array} \quad \begin{array}{r} 7.7 \\ 21 \end{array} \quad \begin{array}{r} 7.3 \\ 10 \end{array} \quad \begin{array}{r} 6.1 \\ 5 \end{array} \quad \begin{array}{r} 5.9 \\ 5.9 \end{array} \quad \begin{array}{r} 6.4 \\ 17 \end{array} \quad \begin{array}{r} 8.2 \\ 18 \end{array} \quad \begin{array}{r} 8.7 \\ 25 \end{array} \quad \begin{array}{r} 9.5 \\ 26 \end{array} \quad \begin{array}{r} 9.5 \\ 27 \end{array} \quad \begin{array}{r} 8.8 \\ 28 \end{array} \quad \begin{array}{r} 8.6 \\ 30 \end{array} \quad \begin{array}{r} 7.4 \\ 50 \end{array}$$

19

$$\begin{array}{r} 9.4 \\ 50 \end{array} \quad \begin{array}{r} 9.2 \\ 17 \end{array} \quad \begin{array}{r} 6.4 \\ 10 \end{array} \quad \begin{array}{r} 6.0 \\ 6.0 \end{array} \quad \begin{array}{r} 6.9 \\ 18 \end{array} \quad \begin{array}{r} 100 \\ 8.9 \\ 19 \end{array} \quad \begin{array}{r} 7.8 \\ 27 \end{array} \quad \begin{array}{r} 8.1 \\ 50 \end{array} \quad \begin{array}{r} 7.4 \\ 100 \end{array}$$

$$\begin{array}{r} 9.5 \\ 50 \end{array} \quad \begin{array}{r} 9.7 \\ 30 \end{array} \quad \begin{array}{r} 8.8 \\ 18 \end{array} \quad \begin{array}{r} 7.0 \\ 6 \end{array} \quad \begin{array}{r} 6.4 \\ 6.4 \end{array} \quad \begin{array}{r} 6.3 \\ 9 \end{array} \quad \begin{array}{r} 2.9 \\ 24 \end{array} \quad \begin{array}{r} 7.9 \\ 29 \end{array} \quad \begin{array}{r} 8.2 \\ 50 \end{array}$$



6/  
North west Arc, White Bear.

Sta. 0100 = Lake Arc.

4/28/38

| Sta. | +    | $\pi$  | - | Elev. |
|------|------|--------|---|-------|
| B.M. | 3.86 | 203.86 |   | 200   |

2+00

2+71 12" x 30" C.M.

2+71 Thru Culvert

Drainage S.W. from culvert along waterway

0+00 W. End. of Culvert

0+50

1+00

+50

+77

2+00

+45

3+00

+50

Lt.

E

Rt.

7

Nail in Fence Post 60' Rt. Sta. 0+25 Stillwater

|           |           |          |           |           |           |           |           |           |
|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 83        | 86        | 60       | 55        | 60        | 25        | 22        | 64        | 63        |
| <u>50</u> | <u>18</u> | <u>9</u> | <u>55</u> | <u>11</u> | <u>23</u> | <u>28</u> | <u>31</u> | <u>35</u> |

|           |           |            |           |           |           |            |           |           |           |
|-----------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
|           |           | 193.96     |           | 15        |           | 194.26     |           |           |           |
|           |           | <u>126</u> |           |           |           | <u>126</u> |           |           |           |
| 100       | 97        | 99         | 66        | 62        | 65        | 96         | 90        | 85        | 74        |
| <u>50</u> | <u>24</u> | <u>16</u>  | <u>10</u> | <u>10</u> | <u>10</u> | <u>15</u>  | <u>18</u> | <u>34</u> | <u>50</u> |

9.92 Flow Line.

10.610.59.69.1

Hi.

9.59.1

Hi

10.211.8

