

Book #61 Dr. 14-A

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

HELEN STREET

From Co. Rd. "C" To $\frac{1}{2}$ mile north

Road Acc't. No. 33-N.S.P.1

Date Filed. 1933

File 14

Helen St.

Proj 33 - NSP1

74

✓
B.M. #1 3.69 1008.05 1004.36

0+00 E Co. Rd. "C" 00.3

+16 00.7

+26 01.0

+31 01.1

+34 01.1

+43 01.5

+70 02.7

1 03.7

+35 04.9

+70 04.8

✓
B.M. #1 2.72 1007.08 3.69 1004.36 ✓

2 04.2

+50 03.8

3 03.8

Top of Hyd. N.E. Cor. Helen + "C"

$$\begin{array}{r} 9.5 \ 8.7 \quad 7.5 \ 7.5 \\ \hline 50 \ 28 \ 28 \ 50 \end{array}$$

$$\begin{array}{r} 10.0 \ 9.4 \ 8.8 \quad 7.4 \ 7.4 \ 7.4 \\ \hline 50 \ 36 \ 18 \ 7.4 \ 18 \ 38 \ 50 \end{array}$$

$$\begin{array}{r} 9.0 \ 8.0 \ 7.5 \ 8.2 \quad 7.4 \ 7.4 \ 7.5 \\ \hline 50 \ 30 \ 17 \ 12 \ 7.1 \ 12 \ 29 \ 50 \end{array}$$

$$\begin{array}{r} 8.5 \ 8.0 \ 7.0 \ 6.7 \ 7.3 \ 7.8 \quad 7.2 \ 5.5 \ 5.5 \\ \hline 50 \ 37 \ 31 \ 16 \ 14 \ 12 \ 7.0 \ 16 \ 23 \ 50 \end{array}$$

$$\begin{array}{r} 6.5 \ 6.4 \ 6.6 \ 7.2 \ 7.7 \quad 7.2 \ 5.8 \ 3.6 \ 3.6 \\ \hline 50 \ 34 \ 15 \ 14 \ 10 \ 7.0 \ 14 \ 19 \ 25 \ 50 \end{array}$$

$$\begin{array}{r} 6.3 \ 6.3 \ 5.8 \ 6.2 \ 6.7 \quad 7.0 \ 6.4 \ 2.1 \ 1.8 \\ \hline 50 \ 34 \ 25 \ 14 \ 12 \ 6.6 \ 12 \ 16 \ 25 \ 50 \end{array}$$

$$\begin{array}{r} 5.8 \ 5.8 \ 5.2 \ 5.2 \ 5.7 \quad 5.8 \ 5.4 \ 5.2 \ 1.7 \ 1.2 \\ \hline 40 \ 33 \ 24 \ 14 \ 11 \ 5.4 \ 12 \ 14 \ 17 \ 2.5 \ 45 \ H_0. \end{array}$$

$$\begin{array}{r} 5.7 \ 5.7 \ 5.1 \ 4.4 \ 4.8 \quad 4.6 \ 4.2 \ 1.7 \ 1.2 \\ \hline 40 \ 33 \ 24 \ 13 \ 11 \ 4.4 \ 16 \ 18 \ 25 \ 40 \end{array}$$

$$\begin{array}{r} 5.4 \ 5.0 \ 4.2 \ 3.7 \quad 3.6 \ 3.4 \ 2.0 \ 1.4 \ 1.4 \\ \hline 40 \ 30 \ 17 \ 11 \ 3.2 \ 14 \ 14 \ 24 \ 35 \ 40 \end{array}$$

$$\begin{array}{r} 4.3 \ 4.4 \ 4.0 \quad 3.3 \ 3.0 \ 2.2 \ 1.7 \\ \hline 40 \ 20 \ 10 \ 3.3 \ 12 \ 21 \ 27 \ 40 \end{array}$$

$$\begin{array}{r} 3.5 \ 3.5 \ 3.8 \ 3.6 \quad 2.7 \ 1.5 \ 1.0 \\ \hline 40 \ 23 \ 21 \ 9 \ 2.9 \ 13 \ 25 \ 40 \end{array}$$

$$\begin{array}{r} 3.6 \ 3.6 \ 3.8 \ 3.7 \quad 3.5 \ 3.3 \ 2.4 \ 1.6 \\ \hline 40 \ 25 \ 22 \ 12 \ 3.3 \ 12 \ 21 \ 25 \ 40 \end{array}$$

$$\begin{array}{r} 5.7 \ 5.6 \ 4.8 \ 4.1 \quad 3.6 \ 3.3 \ 3.2 \ 2.4 \ 1.3 \\ \hline 40 \ 25 \ 15 \ 11 \ 3.3 \ 13 \ 16 \ 20 \ 23 \ 40 \end{array}$$

✓
1007.08

3+30

03.5

+50

02.7

+63

4 18th Ave N.E. RA

02.4

+79

02.1

+84

02.1

4

01.7

+50

00.9

5

00.3

+55

99.1

+60

99.0

6

98.3

+50

98.3

7

✓

✓

97.9

B.M.#2

3.08

1003.59

6.57

1000.51

$\frac{6.4}{40}$ $\frac{5.7}{25}$ $\frac{5.2}{17}$ $\frac{4.4}{11}$ 3.6 $\frac{3.4}{16}$ $\frac{3.1}{20}$ $\frac{2.4}{25}$ 2.0

$\frac{7.7}{40}$ $\frac{7.2}{27}$ $\frac{6.0}{18}$ $\frac{5.0}{11}$ 4.4 $\frac{3.4}{5}$ $\frac{3.5}{12}$ $\frac{3.2}{23}$ $\frac{3.3}{40}$

$\frac{8.7}{40}$ $\frac{8.1}{28}$ $\frac{6.1}{17}$ $\frac{5.3}{11}$ 4.7 $\frac{3.8}{12}$ $\frac{3.3}{26}$ $\frac{3.3}{40}$

$\frac{9.4}{40}$ $\frac{8.5}{27}$ $\frac{6.6}{18}$ $\frac{5.6}{10}$ 5.0 $\frac{4.7}{11}$ $\frac{5.0}{26}$ $\frac{4.4}{40}$

$\frac{9.3}{40}$ $\frac{8.3}{29}$ $\frac{6.8}{19}$ $\frac{5.5}{9}$ 5.0 $\frac{5.0}{10}$ $\frac{5.3}{19}$ $\frac{4.0}{24}$ $\frac{3.7}{40}$

$\frac{9.4}{40}$ $\frac{9.0}{33}$ $\frac{7.2}{21}$ $\frac{5.8}{9}$ 5.4 $\frac{5.5}{12}$ $\frac{5.0}{14}$ $\frac{5.0}{20}$ $\frac{4.4}{21}$ $\frac{3.2}{40}$

$\frac{8.8}{40}$ $\frac{8.1}{31}$ $\frac{7.5}{17}$ $\frac{6.6}{10}$ 6.2 $\frac{6.4}{13}$ $\frac{6.0}{15}$ $\frac{6.0}{19}$ $\frac{5.3}{20}$ $\frac{4.6}{40}$

$\frac{8.0}{40}$ $\frac{7.7}{22}$ $\frac{6.1}{19}$ $\frac{6.1}{16}$ $\frac{7.4}{12}$ 6.8 $\frac{7.2}{13}$ $\frac{6.5}{14}$ $\frac{7.1}{16}$ $\frac{7.1}{19}$ $\frac{6.6}{20}$ $\frac{6.0}{40}$

$\frac{8.3}{40}$ $\frac{8.2}{20}$ $\frac{9.0}{15}$ $\frac{8.2}{11}$ $\frac{8.4}{8}$ 8.0 $\frac{8.0}{12}$ $\frac{7.7}{16}$ $\frac{7.7}{40}$ Alley

$\frac{8.3}{40}$ $\frac{8.5}{21}$ $\frac{8.4}{10}$ $\frac{8.6}{8}$ 8.1 $\frac{8.0}{12}$ $\frac{7.4}{16}$ $\frac{8.8}{19}$ $\frac{9.1}{29}$ $\frac{9.2}{40}$

$\frac{8.8}{40}$ $\frac{8.8}{20}$ $\frac{8.5}{10}$ $\frac{9.0}{8}$ 8.8 $\frac{9.0}{13}$ $\frac{8.8}{19}$ $\frac{10.0}{24}$ $\frac{9.8}{40}$

$\frac{11.0}{40}$ $\frac{10.1}{19}$ $\frac{9.0}{9}$ $\frac{9.5}{8}$ 8.8 $\frac{9.2}{10}$ $\frac{9.2}{15}$ $\frac{10.0}{22}$ $\frac{10.0}{40}$

$\frac{11.2}{40}$ $\frac{10.7}{15}$ $\frac{9.4}{8}$ $\frac{9.6}{7}$ 9.2 $\frac{9.6}{13}$ $\frac{9.8}{21}$ $\frac{10.2}{29}$ $\frac{10.0}{40}$

@ Top of Hyd. N.E. Cor. 19th Ave + Helen St.

✓
1003.59

7+27 E 19th Ave N.E. Rt. 98.0

+50 97.6

8 97.5

+50 98.1

9 98.0

+50 96.8

10 94.1

T.P. 3.95 ✓ 996.18 ✓ 11.34 992.23

+50 91.7

11 90.2

+50 89.1

+85 89.0

12 88.9

+50 89.3

$$\frac{7.4}{40} \quad \frac{7.0}{16} \quad \frac{6.2}{9} \quad 5.6 \quad \frac{5.4}{24} \quad \frac{5.8}{40}$$

$$\frac{2.5}{40} \quad \frac{2.3}{25} \quad \frac{6.8}{13} \quad \frac{6.4}{9} \quad 6.0 \quad \frac{5.8}{13} \quad \frac{6.5}{19} \quad \frac{6.6}{32} \quad \frac{6.6}{40}$$

$$\frac{6.2}{40} \quad \frac{6.2}{21} \quad \frac{7.2}{17} \quad \frac{7.2}{12} \quad \frac{6.3}{7} \quad 6.1 \quad \frac{6.7}{12} \quad \frac{6.7}{20} \quad \frac{7.3}{40}$$

$$\frac{4.0}{40} \quad \frac{4.4}{20} \quad \frac{5.4}{15} \quad \frac{5.2}{11} \quad \frac{6.1}{9} \quad 5.5 \quad \frac{6.4}{12} \quad \frac{6.8}{20} \quad \frac{6.6}{23} \quad \frac{8.2}{40}$$

$$\frac{1.8}{40} \quad \frac{1.8}{21} \quad \frac{3.7}{16} \quad \frac{4.0}{12} \quad \frac{6.3}{9} \quad 5.6 \quad \frac{6.4}{13} \quad \frac{5.5}{15} \quad \frac{6.6}{21} \quad \frac{8.0}{40}$$

$$\frac{2.2}{40} \quad \frac{1.5}{25} \quad \frac{3.8}{22} \quad \frac{4.8}{18} \quad \frac{5.2}{12} \quad \frac{7.7}{9} \quad 6.8 \quad \frac{7.7}{13} \quad \frac{6.2}{14} \quad \frac{6.8}{25} \quad \frac{8.7}{40}$$

$$\frac{6.4}{40} \quad \frac{6.2}{26} \quad \frac{6.8}{22} \quad \frac{8.5}{19} \quad \frac{8.5}{12} \quad \frac{10.0}{10} \quad 9.5 \quad \frac{10.4}{14} \quad \frac{9.7}{15} \quad \frac{11.0}{27} \quad \frac{11.7}{40}$$

$$\frac{6.4}{40} \quad \frac{6.4}{30} \quad \frac{7.1}{20} \quad \frac{8.5}{15} \quad \frac{4.6}{8} \quad 4.5 \quad \frac{5.2}{9} \quad \frac{6.6}{19} \quad \frac{7.6}{21} \quad \frac{7.8}{40}$$

$$\frac{10.7}{40} \quad \frac{10.5}{19} \quad \frac{8.2}{14} \quad \frac{6.6}{7} \quad 6.0 \quad \frac{6.5}{9} \quad \frac{7.0}{16} \quad \frac{9.0}{23} \quad \frac{8.5}{40}$$

$$\frac{10.7}{40} \quad \frac{10.0}{25} \quad \frac{10.1}{15} \quad \frac{8.5}{13} \quad \frac{7.4}{7} \quad 7.1 \quad \frac{7.4}{9} \quad \frac{8.0}{18} \quad \frac{9.7}{23} \quad \frac{9.0}{25} \quad \frac{9.3}{40}$$

$$\frac{10.0}{40} \quad \frac{9.5}{30} \quad \frac{10.0}{14} \quad \frac{7.7}{8} \quad 7.2 \quad \frac{7.8}{12} \quad \frac{8.2}{17} \quad \frac{9.1}{20} \quad \frac{9.2}{23} \quad \frac{8.2}{24} \quad \frac{7.7}{40}$$

$$\frac{10.0}{40} \quad \frac{9.6}{22} \quad \frac{9.4}{14} \quad \frac{7.8}{10} \quad 7.3 \quad \frac{7.7}{13} \quad \frac{8.1}{18} \quad \frac{9.5}{25} \quad \frac{8.5}{30} \quad \frac{8.4}{40}$$

$$\frac{7.5}{40} \quad \frac{7.1}{20} \quad \frac{7.5}{15} \quad \frac{7.3}{9} \quad 6.9 \quad \frac{7.1}{9} \quad \frac{7.1}{17} \quad \frac{8.2}{20} \quad \frac{8.2}{24} \quad \frac{6.5}{30} \quad \frac{6.4}{40}$$

✓
996.18

12+80

89.8

13

90.0

+35

89.6

+55

89.2

T.P.

3.73

✓
992.84

7.07

✓
989.11

14

88.4

+38

87.4

+53

£ Rd. Rt.

87.1

+70

87.0

15

86.6

+50

85.8

16

85.8

+44

9" X 30' Vit.

+50

86.8

$$\frac{6.2}{40} \frac{5.4}{20} \frac{5.7}{18} \frac{6.1}{11} \frac{6.8}{9} \frac{6.4}{8} \frac{6.8}{8} \frac{6.2}{14} \frac{7.2}{23} \frac{5.8}{27} \frac{5.7}{40}$$

$$\frac{6.4}{40} \frac{5.8}{20} \frac{6.1}{15} \frac{6.1}{10} \frac{6.6}{9} \frac{6.2}{8} \frac{6.1}{12} \frac{5.5}{15} \frac{6.0}{19} \frac{6.0}{24} \frac{4.8}{28} \frac{4.6}{40}$$

$$\frac{7.4}{40} \frac{6.7}{20} \frac{6.4}{10} \frac{7.0}{9} \frac{6.6}{9} \frac{5.7}{16} \frac{5.7}{22} \frac{4.2}{26} \frac{3.6}{40}$$

$$\frac{8.0}{40} \frac{7.5}{20} \frac{6.8}{10} \frac{7.4}{8} \frac{7.0}{9} \frac{6.6}{13} \frac{6.3}{17} \frac{6.5}{22} \frac{5.2}{25} \frac{4.3}{34} \frac{4.3}{40}$$

$$\frac{5.6}{40} \frac{5.3}{20} \frac{4.4}{10} \frac{4.8}{8} \frac{4.4}{6} \frac{4.1}{11} \frac{3.8}{17} \frac{3.3}{22} \frac{1.0}{27} \frac{0.8}{40}$$

$$\frac{6.0}{40} \frac{6.1}{20} \frac{5.6}{10} \frac{5.8}{8} \frac{5.4}{8} \frac{4.8}{14} \frac{5.2}{17} \frac{5.0}{25} \frac{4.8}{35} \frac{4.7}{40}$$

$$\frac{6.2}{40} \frac{6.3}{20} \frac{6.0}{10} \frac{6.1}{8} \frac{5.7}{9} \frac{5.4}{9} \frac{5.0}{21} \frac{3.1}{50}$$

$$\frac{7.5}{40} \frac{6.6}{14} \frac{6.0}{9} \frac{6.2}{8} \frac{5.8}{9} \frac{5.8}{16} \frac{6.2}{19} \frac{6.5}{26} \frac{5.2}{40}$$

$$\frac{8.0}{40} \frac{7.0}{18} \frac{6.5}{15} \frac{6.1}{9} \frac{6.7}{8} \frac{6.3}{9} \frac{6.7}{15} \frac{8.0}{17} \frac{7.8}{23} \frac{7.2}{25} \frac{6.6}{32} \frac{5.7}{38} \frac{5.4}{40}$$

$$\frac{10.1}{40} \frac{8.8}{22} \frac{8.5}{15} \frac{7.2}{9} \frac{7.2}{7} \frac{7.0}{9} \frac{7.2}{13} \frac{8.5}{15} \frac{9.0}{22} \frac{7.8}{25} \frac{7.5}{33} \frac{6.3}{38} \frac{6.3}{40}$$

$$\frac{13.7}{40} \frac{12.7}{23} \frac{12.0}{16} \frac{7.5}{9} \frac{7.3}{7} \frac{7.1}{9} \frac{7.2}{12} \frac{9.8}{17} \frac{10.0}{24} \frac{9.0}{27} \frac{8.8}{40}$$

$$\frac{13.0}{15}$$

$$\frac{12.1}{15}$$

$$\frac{13.2}{40} \frac{11.5}{15} \frac{6.5}{8} \frac{6.4}{10} \frac{10.5}{16} \frac{9.0}{40}$$

✓
992.84

17
T.P. 9.78 ✓ 1000.04 2.58 ✓ 990.26 88.9
+50 92.0

+80 94.6

18
T.P. 8.14 ✓ 1006.71 1.47 ✓ 998.57 96.5
+08 97.2

+20 98.2

+30 98.9

+57 1000.6

+75
B.M. #3 8.01 ✓ 1011.31 3.41 ✓ 1003.30 01.4

19 02.5

+35 03.7

+60 04.7

20 06.2

$$\begin{array}{cccccc} 6.3 & 5.2 & 6.5 & 6.4 & 3.9 & \\ 40 & 20 & 18 & 12 & 8 & 3.9 \end{array} \quad \begin{array}{cccccc} 4.1 & 8.2 & 8.4 & 7.3 & & \\ 11 & 18 & 28 & 40 & & \end{array}$$

$$\begin{array}{cccccc} 8.0 & 8.0 & 8.6 & 8.3 & & \\ 40 & 22 & 19 & 10 & 8.0 & 11 \end{array} \quad \begin{array}{cccccc} 8.0 & 7.6 & 7.7 & 6.6 & 6.8 & 5.4 & 5.2 \\ 11 & 12 & 15 & 18 & 25 & 28 & 40 \end{array}$$

$$\begin{array}{cccccc} 8.4 & 7.5 & 7.0 & 5.7 & & \\ 40 & 35 & 14 & 11 & 5.4 & 12 \end{array} \quad \begin{array}{cccccc} 5.4 & 4.6 & 4.8 & 3.8 & 3.6 & 2.1 & 1.8 \\ 12 & 13 & 16 & 18 & 24 & 27 & 40 \end{array}$$

$$\begin{array}{cccccc} 6.4 & 4.6 & 3.6 & 4.6 & & \\ 40 & 18 & 10 & 6 & 3.5 & 12 \end{array} \quad \begin{array}{cccccc} 3.4 & 3.0 & 3.0 & 1.8 & 0.0 & \\ 12 & 14 & 18 & 19 & 40 & \end{array}$$

$$\begin{array}{cccccc} 11.2 & 11.2 & 12.4 & 10.4 & 9.8 & 10.2 & 9.6 & 8.8 & 9.8 & 10.2 \\ 45 & 40 & 36 & 31 & 21 & 18 & 14 & 10 & 6 & 9.5 \end{array} \quad \begin{array}{cccccc} 9.5 & 9.0 & 9.4 & 6.8 & 5.2 & \\ 13 & 14 & 17 & 20 & 40 & \end{array}$$

$$\begin{array}{cccccc} 10.4 & 9.3 & 6.7 & 8.0 & 8.2 & 8.8 & 4.6 \\ 40 & 20 & 14 & 9 & 6 & 6 & 8.5 \end{array} \quad \begin{array}{cccccc} 8.5 & 8.2 & 8.3 & 5.6 & 3.8 & \\ 13 & 14 & 17 & 19 & 40 & \end{array}$$

$$\begin{array}{cccccc} 9.0 & 8.5 & 8.5 & 8.2 & 7.2 & 7.4 & 8.0 & 9.2 \\ 40 & 30 & 18 & 13 & 9 & 6 & 6 & 7.8 \end{array} \quad \begin{array}{cccccc} 7.8 & 7.4 & 7.6 & 6.2 & 4.7 & \\ 13 & 15 & 18 & 19 & 40 & \end{array}$$

$$\begin{array}{cccccc} 3.4 & 3.5 & 5.0 & 6.0 & 5.5 & 5.8 & 6.5 & 5.8 & 6.2 & 6.5 & 6.5 & 5.6 & 4.3 \\ 40 & 28 & 18 & 15 & 10 & 6 & 5 & 6.1 & 4 & 15 & 20 & 25 & 28 & 40 \end{array}$$

$$\begin{array}{cccccc} 2.4 & 2.4 & 3.8 & 4.8 & 5.2 & 4.5 & 4.4 & 5.7 & 5.0 & 5.2 & 6.8 & 6.5 & 5.7 & 4.6 \\ 40 & 28 & 17 & 18 & 12 & 9 & 6 & 4 & 5.3 & 6 & 18 & 21 & 27 & 30 & 40 \end{array}$$

Spk. in 20" CkK 40' R4. 18+40

$$\begin{array}{cccccc} 6.6 & 2.8 & 8.5 & 8.5 & 9.0 & & \\ 40 & 17 & 14 & 7 & 6 & 8.8 & 8.6 \end{array} \quad \begin{array}{cccccc} 9.0 & 11.0 & 11.0 & 10.0 & 8.0 & \\ 5 & 18 & 22 & 28 & 32 & 40 \end{array}$$

$$\begin{array}{cccccc} 6.2 & 2.6 & 2.8 & & & \\ 40 & 17 & 4 & 7.6 & 8.2 & 8.0 & 10.7 & 11.0 & 10.6 \\ 5 & 14 & 17 & 22 & 29 & 40 \end{array}$$

$$\begin{array}{cccccc} 5.3 & 7.0 & 7.7 & 7.5 & 6.5 & 7.0 & 6.6 & 7.1 & 6.2 & 7.5 & 8.6 & 9.6 \\ 40 & 18 & 16 & 11 & 6 & 4 & 6.6 & 5 & 14 & 17 & 24 & 32 & 40 \end{array}$$

$$\begin{array}{cccccc} 4.8 & 4.0 & 4.7 & 4.5 & 4.8 & 5.4 & 5.0 & 5.1 & 3.0 & 3.0 & 2.2 & 4.0 \\ 40 & 20 & 16 & 12 & 7 & 6 & 5.1 & 5 & 14 & 19 & 24 & 27 & 40 \end{array}$$

✓
1011.31

20 + 22

06.7

+ 50

07.0

21

07.1

+ 54

06.4

+ 59

06.3

+ 75

4 Rd. Rt.

06.0

+ 90

05.9

22

05.8

+ 50

05.9

23

T.P.

12.37

✓
1019.36

4.32

✓
1006.99

06.6

+ 50

07.6

24

09.4

+ 50

11.6

$$\frac{4.1}{40} \frac{3.4}{22} \frac{3.8}{11} \frac{4.5}{7} \frac{5.0}{6} \frac{4.6}{46} \frac{4.6}{5} \frac{4.6}{14} \frac{2.7}{19} \frac{2.4}{24} \frac{1.0}{27} \frac{1.5}{40}$$

$$\frac{3.5}{40} \frac{3.7}{22} \frac{4.0}{13} \frac{4.5}{6} \frac{4.9}{5} \frac{4.2}{4.3} \frac{4.5}{4} \frac{3.8}{13} \frac{2.8}{17} \frac{3.0}{19} \frac{1.8}{25} \frac{1.5}{29} \frac{1.5}{40}$$

$$\frac{3.0}{40} \frac{3.0}{21} \frac{3.6}{9} \frac{4.6}{7} \frac{4.0}{4.2} \frac{4.6}{4} \frac{4.2}{13} \frac{4.0}{16} \frac{4.6}{18} \frac{4.6}{21} \frac{2.7}{26} \frac{2.0}{29} \frac{2.0}{40}$$

$$\frac{7.2}{40} \frac{6.8}{30} \frac{6.2}{15} \frac{4.8}{9} \frac{5.3}{6} \frac{4.9}{4.9} \frac{4.8}{5} \frac{5.5}{15} \frac{5.3}{19} \frac{5.3}{22} \frac{3.7}{25} \frac{2.7}{40}$$

$$\frac{3.0}{40} \frac{6.4}{15} \frac{5.0}{10} \frac{5.3}{6} \frac{4.9}{5.0} \frac{5.5}{5} \frac{5.8}{23} \frac{6.1}{33} \frac{6.1}{40}$$

$$\frac{7.7}{40} \frac{6.7}{25} \frac{7.0}{14} \frac{5.8}{10} \frac{5.6}{6} \frac{5.2}{5.3} \frac{5.3}{5} \frac{6.0}{23} \frac{6.0}{40}$$

$$\frac{8.3}{40} \frac{7.9}{23} \frac{7.7}{14} \frac{6.0}{8} \frac{6.0}{6} \frac{5.3}{5.4} \frac{5.3}{5} \frac{6.1}{21} \frac{6.3}{31} \frac{5.8}{32} \frac{6.2}{40}$$

$$\frac{8.8}{40} \frac{8.0}{22} \frac{7.8}{14} \frac{6.0}{6} \frac{5.5}{5.5} \frac{5.5}{5} \frac{6.2}{18} \frac{6.2}{25} \frac{5.2}{27} \frac{4.4}{40}$$

$$\frac{8.4}{40} \frac{7.6}{21} \frac{7.3}{13} \frac{5.7}{7} \frac{5.3}{5.4} \frac{5.3}{4} \frac{5.8}{12} \frac{6.6}{17} \frac{6.7}{24} \frac{5.3}{28} \frac{4.4}{40}$$

$$\frac{5.8}{40} \frac{6.0}{34} \frac{2.1}{26} \frac{5.8}{20} \frac{5.8}{12} \frac{4.7}{7} \frac{4.7}{4.7} \frac{5.2}{4} \frac{6.0}{14} \frac{6.0}{20} \frac{4.5}{26} \frac{3.4}{40}$$

$$\frac{12.0}{40} \frac{11.7}{25} \frac{12.3}{15} \frac{11.7}{8} \frac{12.0}{7} \frac{11.5}{11.8} \frac{10.7}{12} \frac{12.2}{17} \frac{11.1}{22} \frac{10.8}{28} \frac{10.8}{40}$$

$$\frac{8.0}{40} \frac{8.8}{26} \frac{9.8}{12} \frac{10.5}{11} \frac{10.0}{7} \frac{10.2}{6} \frac{10.0}{10.0} \frac{10.0}{7} \frac{10.0}{20} \frac{10.7}{24} \frac{9.4}{29} \frac{9.4}{40}$$

$$\frac{3.4}{40} \frac{5.0}{23} \frac{7.0}{12} \frac{8.5}{10} \frac{8.0}{7} \frac{8.0}{7.8} \frac{8.4}{17} \frac{7.8}{22} \frac{7.8}{30} \frac{7.8}{40}$$

✓
1019.36

25 12.9

+50 14.1

26 16.1

+26 End 17.1

+50 18.1

+92 ✓ 19.4

B.M. #4 2.00 1017.36

$\frac{4.8}{40}$ $\frac{5.2}{23}$ $\frac{6.3}{11}$ $\frac{7.1}{10}$ $\frac{6.5}{7}$ $\frac{6.4}{15}$ $\frac{7.3}{24}$ $\frac{7.0}{28}$ $\frac{4.3}{30}$ $\frac{6.0}{40}$

$\frac{5.3}{40}$ $\frac{5.3}{22}$ $\frac{5.8}{14}$ $\frac{5.4}{7}$ $\frac{5.1}{15}$ $\frac{5.8}{20}$ $\frac{6.2}{26}$ $\frac{5.0}{29}$ $\frac{4.7}{40}$

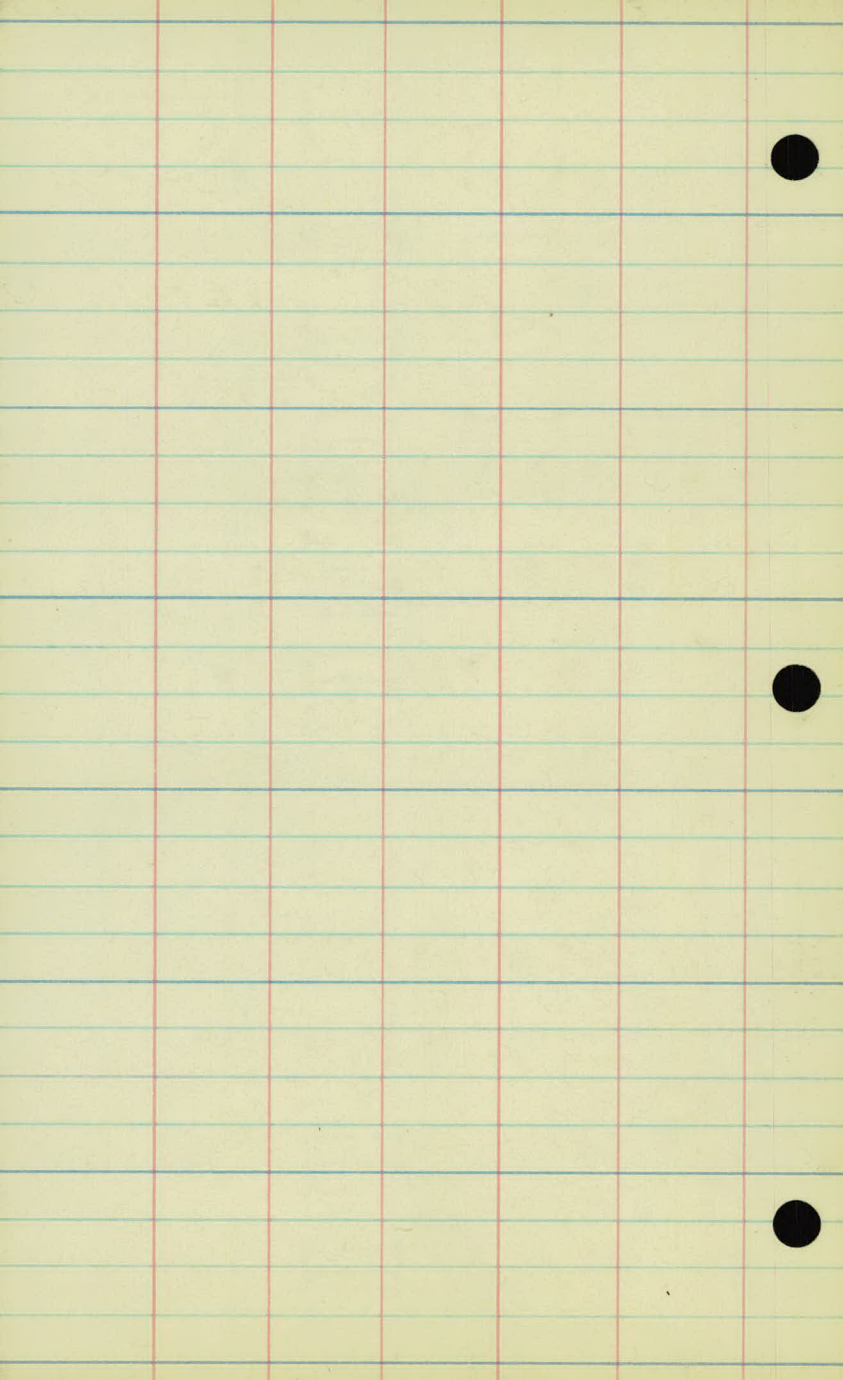
$\frac{3.5}{40}$ $\frac{3.0}{21}$ $\frac{4.5}{18}$ $\frac{4.6}{14}$ $\frac{3.6}{12}$ $\frac{3.3}{14}$ $\frac{4.3}{16}$ $\frac{4.2}{19}$ $\frac{3.3}{22}$ $\frac{2.0}{40}$

$\frac{1.2}{40}$ $\frac{2.1}{14}$ $\frac{2.6}{7}$ $\frac{2.4}{13}$ $\frac{3.7}{16}$ $\frac{3.4}{19}$ $\frac{2.2}{21}$ $\frac{2.7}{40}$

1.3

0.0

Spt. in 24" Oak 45' Rt. 25+80



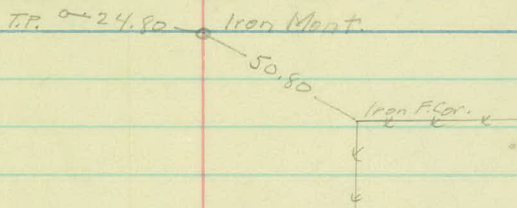
Helen St.
Alignment

24+24.0 Cen. Sec. 1.

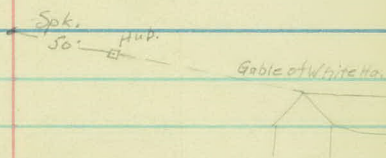
8+50 P.O.T.

17+00 P.O.T.

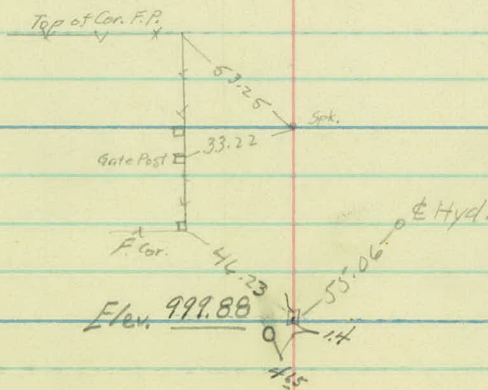
0+00 Mont. Co. Rd. "C"

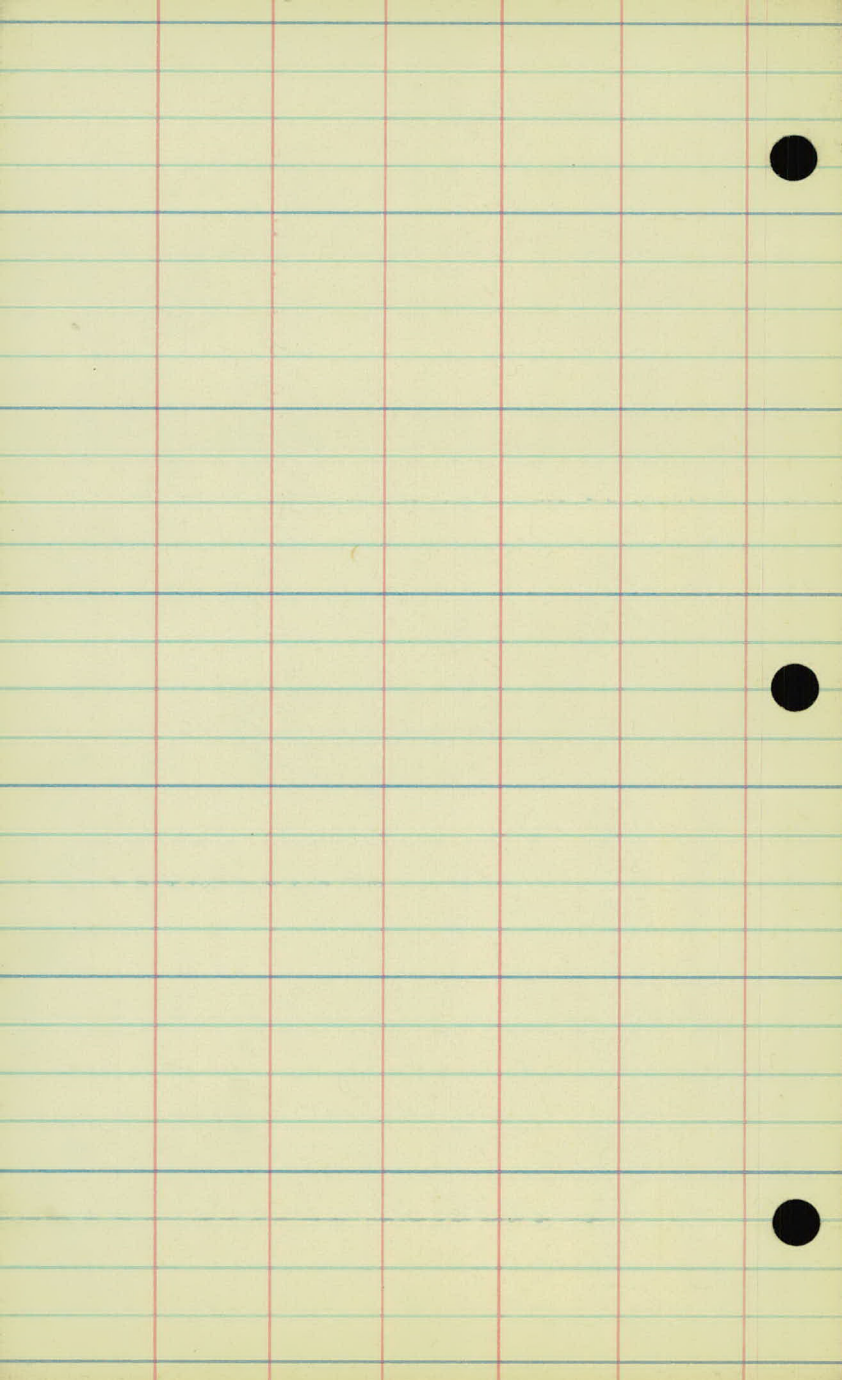


Elev. 997.41 7 + 31.0
 0.90



Elev. 1001.57 3 + 65.0
 0.45





Helen St.

6

5

4

3

2

1

0+00

Cut.

+52-Tr. 26'

+57-P.R. 20'

+71-Tr. 26'

+52-6 Alley

+20-6 Dr.

+32-Tr. 26'

+61-Std. 26'

+00-Rd. Sq. 26'

+99-Tr. 26'

+86-Hyd. 37'

+84-P.P. 20'

+63-6 18th Ave N.E.

+26-Tr. 26'

+12-Tr. 26'

+00-Tr. 26'

+67-6 Dr.
+61-Tr. 32'
+55-3' Conc. Walk, 24'

+86-Tr. 26'

+72-Tr. 26'

+59-Tr. 26'

+45-Tr. 26'

+31-Tr. 26'

+18-Tr. 26'

+05-Tr. 26'

+05-6 Dbl. Dr.

+90-P.R. 20'

+48-6 Dr.

+42-F. Cor. 32'

F. 32'

+84-6 Alley

+78-Tr. 26'

+64-Tr. 26'

+50-Tr. 26'

+37-Tr. 26'

+22-Tr. 26'

+15-Conc. Steps 20'

+33-F. Cor. 32.5'

+25-P.P. 21'

+00-6 Conc. Rd. 2'

+96-Tr. 26'

+82-Tr. 26'

+67-Tr. 26'

+54-Tr. 26'

+40-Tr. 26'

+35-Hyd. 18'

13

12

11

10

9

8

7

Cult.

+97 - Tr. 23'
+80 - Tr. 24'
+70 - Tr. 24'
+63 - Tr. 30'
+62 - Tr. 25'
+54 - Tr. 27'
+49 - Tr. 25'
+42 - Tr. 26'
+40 - Tr. 28'

+99 - Tr. 28'
+97 - Tr. 28'

+80 - Tr. 19'

+65 - Tr. 26'

+38 - Tr. 26'

+80 - Tr. 28'
+74 - Tr. 28'
+65 - Tr. 28'

+30 - Tr. 21'
+06 - Tr. 21'

+72 - End Brush 20'
+72 - Tr. 24'
+56 - Tr. 24'
+49 - Tr. 28'
+31 - Tr. 23'

Cult.

5' 1/2"

Uncultivated

+84 - Beg. Brush 18'

+29 - Tr. 21'

+54 - Tr. 20'
+32 - P.P. 22'
+27 - E Dr.

+53 - Rd. Sq. 23'
+51 - Hyd. 54'

+27 - E 19th Ave N.E.
12" x 32" C.M.

20

19

18

17

16

15

14

+77-Tr. 17'
 +68-Tr. 16'
 +62-Tr. 16'
 +52-Tr. 16'
 +39-Tr. 21'
 +37-16' Tr.
 +25-Tr. 16'
 +23-T.P. 23'-F. 23'
 +22-F. Cor. 17'
 F. 16'-Ar. Tr. 26'

+96-Tr. 16'
 +85-Tr. 16'
 +78-Tr. 33'

Orchard
Yard

Woods

+33-F. Cor. 17'
 +27-Tr. 18'
 +22-Tr. 18'
 +16-Tr. 17'
 +08-Tr. 17'
 +02-Tr. 17'
 F. 16'

+72-At. 27'
 +62-Hedge 19'
 +52-Tr. 27'
 +52-Tr. 24'

Yard

+97-Tr. 28'
 +94-P.P. 23'
 +81-Tr. 29'
 +55-Tr. 31'
 +15-Tr. 33'
 +05-Tr. 31'

+52-T.P. 22'
 +49-F. Int. 18'
 +43-Tr. 10'
 +29-Tr. 23'
 +27-Tr. 27'
 +28-Tr. 11'
 +25-Tr. 20'
 +21-Tr. 17'
 +02-Tr. 24'
 F. 18'

+95-Tr. 16'
 +38-Tr. 17'
 +81-Tr. 17'
 +75-Tr. 17'
 +70-Tr. 17'
 +63-Tr. 17'
 +57-Tr. 28'
 +57-Tr. 21'

Pasture

+88-Tr. 29'
 +43-Tr. 29'
 +00-Tr. 28'

+64-Tr. 32'
 +62-Tr. 29'
 +56-Tr. 25'-F. Int. 20'
 +52-T.P. 22'
 +44-Tr. 20'
 +35-Tr. 21'
 +34-Tr. 28'+21'
 +07-Tr. 27'
 +05-Tr. 28'
 F. 21'

+94-Tr. 23'
 +93-Tr. 29'
 +91-Tr. 29'
 +88-Tr. 19'
 +84-Tr. 22'
 +79-Tr. 32'
 +77-Tr. 19'
 +75-St. 29'
 +68-Tr. 24'

Cult.

+88-Tr. 19'
 +84-Tr. 25'
 +69-F. Cor. 23'
 +46-T.P. 22'
 +44-9" X 30" Vit.

+18-Tr. 14'

15' 15'

+36-2 Tr. 34'
 +32-2 Tr. 32'
 +16-St. 25'
 +07-St. 25'

Cult.

+74-T.P. 22'

+56-Tr. 23'
 +54-Tr. 30'
 +48-Tr. 25'
 +12-Tr. 32'

+82-Tr. 27'
 +87-Tr. 30'
 +53-A. Ad.
 +31-Tr. 26'
 +24-Tr. 31'
 +22-Tr. 30'
 +04-St. 27'
 +02-Tr. 29'
 +02-Tr. 26'

27

26

25

24

23

22

21

+32 - T.P. 24'
 +23 - F.E.
 15" X 28" CM 17'

+10 - T.P. 23'

+41 - T.P. 23'

+75 - T.P. 23'
 +49 - Tr. 24' - End F. 24'
 +48 - Tr. 17'
 +39 - Tr. 17' + 30'
 +28 - Tr. 26'
 +29 - Tr. 17'
 +16 - Tr. 17'
 +07 - Tr. 16'
 F. 21'

Cult.

Cemetery

Woods

+26 - End of Proj

+90 - F. Cor. 37'

F. 36'

+14 - E Dr.
 6" X 16" V. 7. 28'

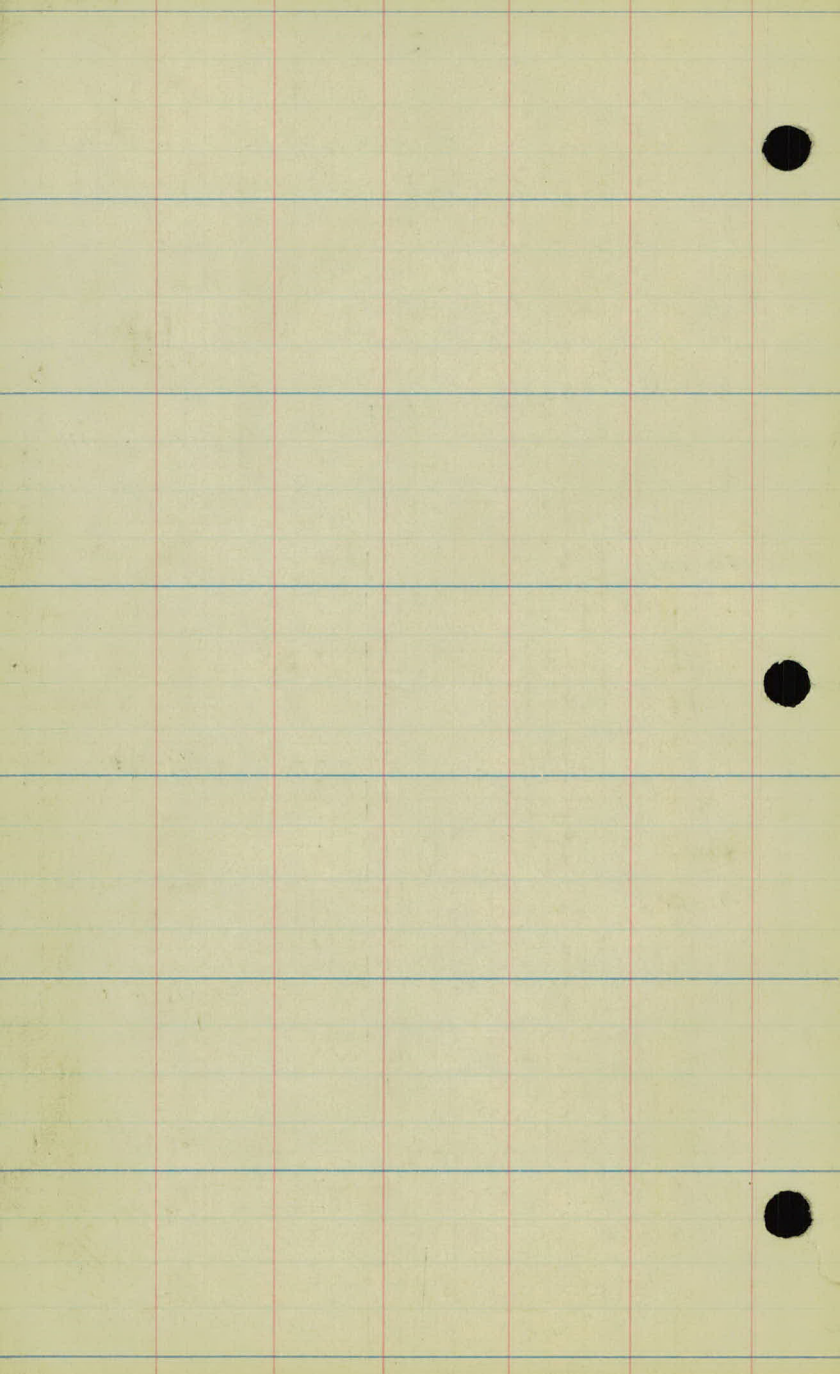
+65 - F. Cor. 36'

+95 - Tr. 33'

+20 - Tr. 33'
 +05 - Tr. 30'

+75 - E Rd.

+33 - Tr. 29'
 27 - Tr. 32' + 35'
 +23 - 4 Tr. 32'



Proj. 33-H.S.P.1 Helena St.
Plans in Hand 1/25p.
4-18-33

O.R.P.K.
M.W.C.

Check elev. 0+43
Save trees RT & 701
1+48 Lt. - Pl. 12" X 20' C.M.
1+84 Rt. - No. culv. req
2+05 " " " "
2+67 Lt. " " "
3+63 Rt. Pl. 12" X 40' C.M.
4+00 - 5+00 Gr. 1
5+20 Lt. Pl. 12" X 20' C.M.
5+52 Rt. Pl. 12" X 24' C.M.
7+19 Rt. - Reint. & Rep Ext. 8' 1/2 in.
7+37 Lt. No culv. req
9+50 - 11+00 Cl. 11 Gr. 8
14+53 Rt. - Pl. 12" X 30' C.M.
13+00 - 14+00 - Cl. 5 tr. Gr. 6 tr.
14+53 Lt. Pl. 12" X 20' C.M.
16+00 - 16+50 Cl. 1 tr.
16+44 - Reint. Pl. 24" P₃ X 54
17+50 - 19+50 Cl. & Gr. 29 tr.
19+40 Lt. Pl. 12" X 20' C.M.
20+00 - 21+50 Cl. & Gr. 16 tr.
21+75 Rt. No culv. req
24+14 Rt. Reint. Pl. 12" X 30' C.M.
26+23 Lt. - O.K.

