

Book # 21, Dr. 11

X

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

CHATSWORTH ST.

From Co. Rd. "A2" To SHRYER AVE.

Road Acc't. No.

Date Filed

File 11

7/35/

H.T.P.
J.B.

Alignment Notes
Chatsworth Street
Co. Rd 4th to Shryer Av.

Plant
aug 1
Complete
31 1935

10+00

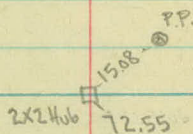
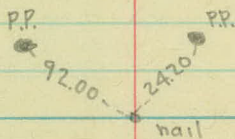
P.O.T.

6+02

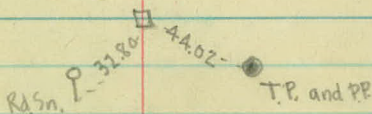
P.O.T.

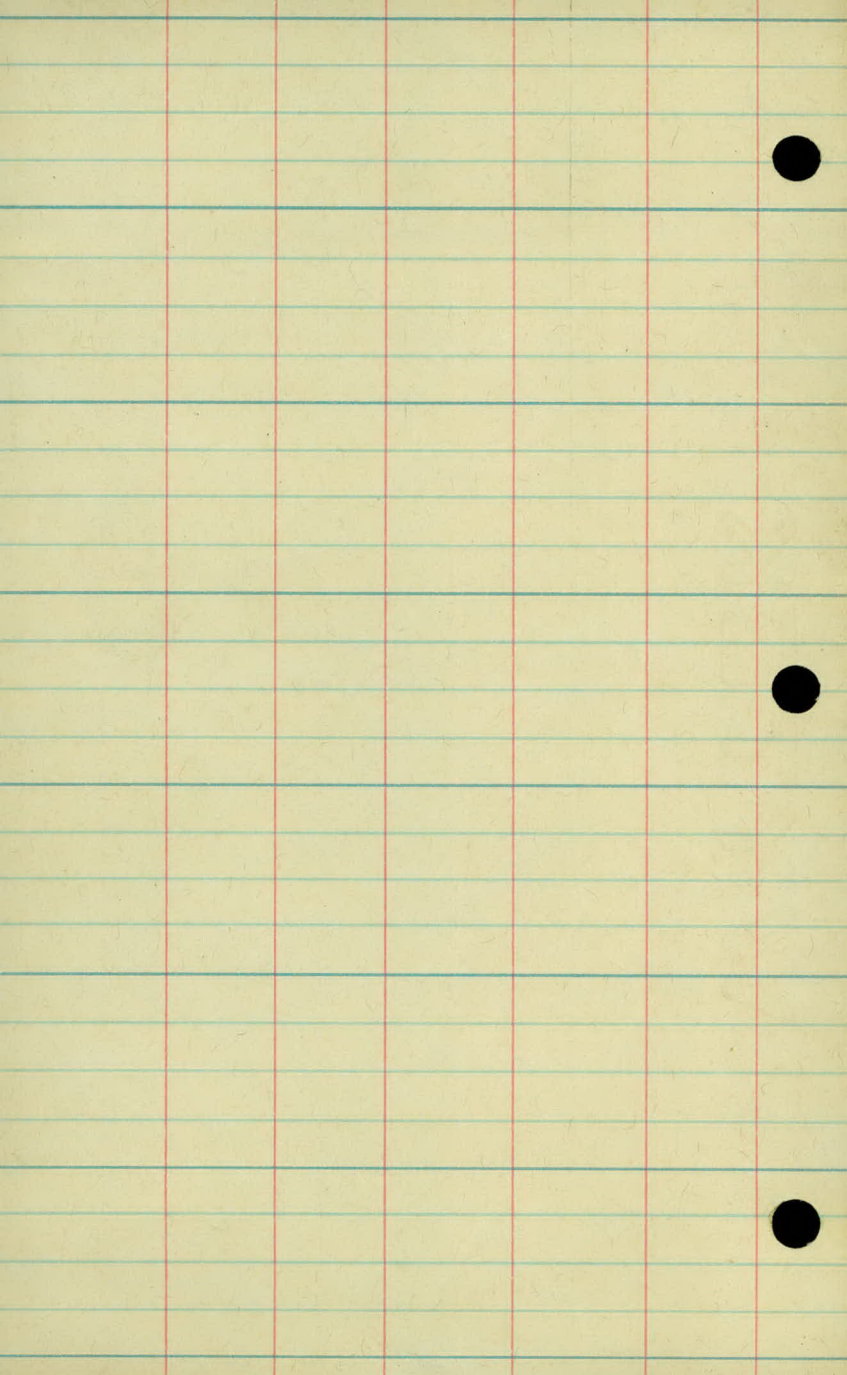
0+00

P.O.T. Mont. Chatsworth & Co Rd A²



Cor Water Table





Topography
Chatsworth Street
Co. Rd A² to Shryer Ave

4

$$\begin{array}{r} +89 \text{ Orchard} \\ \hline 32 \end{array}$$

$$\begin{array}{r} \text{\textcircled{E}} \\ +50 \text{ Rd} \\ \hline 6-5 \\ +17-10' \times 20 \text{ CM} \\ \hline 10-10 \end{array}$$

$$\begin{array}{r} +94 \text{ TP} \\ \hline 12 \\ +89 \text{ PP} \\ \hline 12 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 6-6 \end{array}$$

3

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 6-5 \end{array}$$

$$\begin{array}{r} +62 \text{ TP} \\ \hline 11 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 6-5 \end{array}$$

2

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 6-5 \end{array}$$

$$\begin{array}{r} +49 \text{ PP} \\ \hline 11 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 7-4 \end{array}$$

$$\begin{array}{r} +21 \text{ TP} \\ \hline 10 \end{array}$$

1

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 10-2 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 11-0 \end{array}$$

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 9-1 \end{array}$$

$$\begin{array}{r} +77 \text{ PP} \\ \hline 8 \end{array}$$

$$\begin{array}{r} +24-15' \times 24' \text{ CM} \\ \hline 13-11 \end{array}$$

0

Orchard

Cultivated

Dirt Road

Cultivated

Hayfield

18' Black Top

MBT
Sign

Inp. 15' x 30' CM

18' Gravel

$$\begin{array}{r} +50 \text{ Cor Ho} \\ \hline 48 \end{array}$$

$$\begin{array}{r} +13 \text{ PP} \\ \hline 21 \end{array}$$

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 5-14 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 5-16 \end{array}$$

$$\begin{array}{r} +78 \text{ PP} \\ \hline 19 \\ +50 \text{ Rd} \\ \hline 5-15 \\ \text{Rd} \\ \hline 3-13 \end{array}$$

$$\begin{array}{r} +50 \text{ Rd} \\ \hline 3-13 \end{array}$$

$$\begin{array}{r} +41 \text{ PP} \\ \hline 17 \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 4-13 \end{array}$$

$$\begin{array}{r} +55 \text{ Ent} \\ \hline \end{array}$$

$$\begin{array}{r} \text{R/L} \\ \hline \end{array}$$

$$\begin{array}{r} \text{Rd} \\ \hline 0-10 \end{array}$$

$$\begin{array}{r} +10 \text{ PP} \\ \hline 14 \end{array}$$

$$+65-24' \text{ Oak}$$

$$\begin{array}{r} +34 \text{ Pump-Ho} \\ \hline 25 \end{array}$$

$$\begin{array}{r} +41 \text{ Shed} \\ \hline 55 \end{array}$$

$$\begin{array}{r} +30 \text{ Ent} \\ \hline 33 \end{array}$$

$$+05 \text{ End Orchard}$$

$$31$$

$$+50 \text{ 4-6 Rd}$$

$$\begin{array}{r} +19 \text{ Ho} \\ \hline 42 \end{array}$$

$$+12 \text{ Ent}$$

30
16
40

Haas Ave

14' Gravel 9+99

1 1/2 Guy

10' Dirt Road

Cultivated

Hayfield

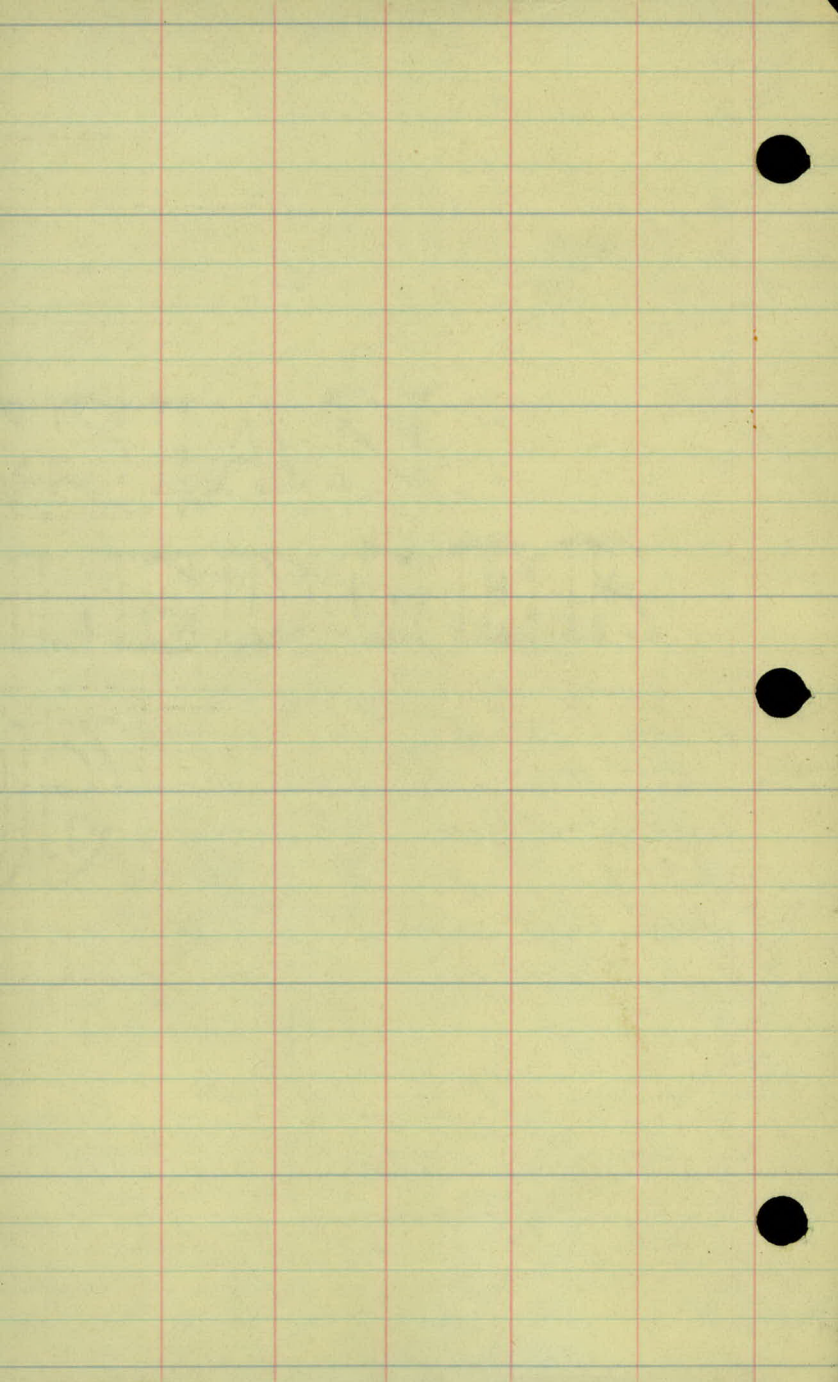
FE

FE

13
40
26

16.5
30'

1 1/2 S
Fr.
47'



X- Sections

Chatsworth Street

Co. Rd. A¹ to Haas Rd.

Sta + π -

B.M. 8.46 972.02 963.56

0+00 $\pm A^2$ 63.56 ✓

+09 Edge Pavement 63.59 ✓

+23 63.2 ✓

+30 62.9 ✓

+76 61.4 ✓

1 59.4 ✓

⊙ 1.60 860.32? 13.30 858.72?

54.8 ✓

+50

2 52.2 ✓

+50 51.2 ✓

3 51.2 ✓

Top Mont A² - Chatsw

$$\begin{array}{r} 59.3 \\ 12.74 \\ \hline 100 \end{array} \quad \begin{array}{r} 10.73 \\ 50 \\ \hline \end{array} \quad 8.46 \quad \begin{array}{r} 68.8 \\ 5.94 \\ \hline 50 \end{array} \quad \begin{array}{r} 3.15 \\ 100 \\ \hline \end{array}$$

$$\begin{array}{r} 59.1 \\ 12.94 \\ \hline 100 \end{array} \quad \begin{array}{r} 11.25 \\ 56 \\ \hline \end{array} \quad 8.43 \quad \begin{array}{r} 68.1 \\ 5.79 \\ \hline 55 \end{array} \quad \begin{array}{r} 3.93 \\ 100 \\ \hline \end{array}$$

$$55.9 \quad \begin{array}{r} 16.1 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 13.6 \\ 54 \\ \hline \end{array} \quad \begin{array}{r} 11.4 \\ 16 \\ \hline \end{array} \quad \begin{array}{r} 9.6 \\ 11 \\ \hline \end{array} \quad 8.8 \quad \begin{array}{r} 8.6 \\ 10 \\ \hline \end{array} \quad \begin{array}{r} 8.5 \\ 24 \\ \hline \end{array} \quad \begin{array}{r} 7.2 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 67.4 \\ 4.6 \\ 100 \\ \hline \end{array}$$

$$56.4 \quad \begin{array}{r} 15.6 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 13.0 \\ 58 \\ \hline \end{array} \quad \begin{array}{r} 10.9 \\ 15 \\ \hline \end{array} \quad \begin{array}{r} 9.4 \\ 9 \\ \hline \end{array} \quad 9.1 \quad \begin{array}{r} 9.0 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 8.1 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 8.2 \\ 12 \\ \hline \end{array} \quad \begin{array}{r} 5.6 \\ 53 \\ \hline \end{array} \quad \begin{array}{r} 69.5 \\ 2.5 \\ 100 \\ \hline \end{array}$$

$$55.8 \quad \begin{array}{r} 16.2 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 13.6 \\ 53 \\ \hline \end{array} \quad \begin{array}{r} 11.7 \\ 18 \\ \hline \end{array} \quad \begin{array}{r} 12.0 \\ 15 \\ \hline \end{array} \quad \begin{array}{r} 10.6 \\ 9 \\ \hline \end{array} \quad 10.6 \quad \begin{array}{r} 10.4 \\ 2 \\ \hline \end{array} \quad \begin{array}{r} 9.5 \\ 4 \\ \hline \end{array} \quad \begin{array}{r} 5.8 \\ 54 \\ \hline \end{array} \quad \begin{array}{r} 67.0 \\ 5.0 \\ 100 \\ \hline \end{array}$$

$$54.2 \quad \begin{array}{r} 17.8 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 15.8 \\ 60 \\ \hline \end{array} \quad \begin{array}{r} 13.9 \\ 18 \\ \hline \end{array} \quad \begin{array}{r} 14.5 \\ 15 \\ \hline \end{array} \quad \begin{array}{r} 12.5 \\ 9 \\ \hline \end{array} \quad 12.6 \quad \begin{array}{r} 12.4 \\ 3 \\ \hline \end{array} \quad \begin{array}{r} 11.8 \\ 4 \\ \hline \end{array} \quad \begin{array}{r} 10.2 \\ 20 \\ \hline \end{array} \quad \begin{array}{r} 64.4 \\ 7.6 \\ 97 \\ \hline \end{array}$$

$$52.5 \quad \begin{array}{r} 9.8 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 8.5 \\ 55 \\ \hline \end{array} \quad \begin{array}{r} 7.1 \\ 15 \\ \hline \end{array} \quad \begin{array}{r} 6.2 \\ 13 \\ \hline \end{array} \quad \begin{array}{r} 5.8 \\ 8 \\ \hline \end{array} \quad 5.5 \quad \begin{array}{r} 5.8 \\ 2 \\ \hline \end{array} \quad \begin{array}{r} 5.2 \\ 4 \\ \hline \end{array} \quad \begin{array}{r} 4.6 \\ 6 \\ \hline \end{array} \quad \begin{array}{r} 4.7 \\ 12 \\ \hline \end{array} \quad \begin{array}{r} 2.9 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 58.6 \\ 1.7 \\ 100 \\ \hline \end{array}$$

$$48.8 \quad \begin{array}{r} 11.5 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 11.0 \\ 62 \\ \hline \end{array} \quad \begin{array}{r} 10.1 \\ 21 \\ \hline \end{array} \quad \begin{array}{r} 10.5 \\ 15 \\ \hline \end{array} \quad \begin{array}{r} 10.2 \\ 13 \\ \hline \end{array} \quad \begin{array}{r} 8.3 \\ 6 \\ \hline \end{array} \quad 8.1 \quad \begin{array}{r} 7.8 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 8.3 \\ 9 \\ \hline \end{array} \quad \begin{array}{r} 6.8 \\ 53 \\ \hline \end{array} \quad \begin{array}{r} 4.2 \\ 100 \\ \hline \end{array} \quad 56.1$$

$$47.9 \quad \begin{array}{r} 12.4 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 12.1 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 11.3 \\ 18 \\ \hline \end{array} \quad \begin{array}{r} 11.0 \\ 13 \\ \hline \end{array} \quad \begin{array}{r} 9.2 \\ 6 \\ \hline \end{array} \quad 9.1 \quad \begin{array}{r} 8.7 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 8.8 \\ 8 \\ \hline \end{array} \quad \begin{array}{r} 9.3 \\ 10 \\ \hline \end{array} \quad \begin{array}{r} 7.0 \\ 56 \\ \hline \end{array} \quad \begin{array}{r} 1.2 \\ 100 \\ \hline \end{array} \quad 59.1$$

$$47.3 \quad \begin{array}{r} 13.0 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 12.4 \\ 48 \\ \hline \end{array} \quad \begin{array}{r} 11.4 \\ 19 \\ \hline \end{array} \quad \begin{array}{r} 11.6 \\ 15-13 \\ \hline \end{array} \quad \begin{array}{r} 9.2 \\ 7 \\ \hline \end{array} \quad 9.1 \quad \begin{array}{r} 9.0 \\ 4 \\ \hline \end{array} \quad \begin{array}{r} 8.9 \\ 6 \\ \hline \end{array} \quad \begin{array}{r} 9.6 \\ 9 \\ \hline \end{array} \quad \begin{array}{r} 7.1 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 3.9 \\ 100 \\ \hline \end{array} \quad 56.4$$

Sta

+

 π

-

860.32

49.9 ✓

3+50

4

48.5 ✓

+50

48.8 ✓

+78

49.6 ✓

5

①

12.35

870.26[?]

241

857.91[?]

51.0 ✓

+47

57.0 ✓

+60

58.2 ✓

58.3 ✓

+83

+93

58.9 ✓

47.3

51.4

$\frac{13.0}{100}$	$\frac{12.7}{54}$	$\frac{11.4}{13}$	$\frac{11.7}{10}$	$\frac{10.3}{6}$	10.4	$\frac{10.1}{5}$	$\frac{10.2}{9}$	$\frac{11.1}{15}$	$\frac{10.0}{55}$	$\frac{8.9}{100}$
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47.0

49.3

$\frac{13.3}{100}$	$\frac{13.3}{67}$	$\frac{12.9}{18-11}$	$\frac{12.0}{6}$	11.8	$\frac{11.6}{8}$	$\frac{12.0}{12}$	$\frac{12.1}{14}$	$\frac{12.1}{56}$	$\frac{11.2}{100}$
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47.9

49.7

$\frac{12.4}{100}$	$\frac{12.5}{57}$	$\frac{12.4}{9}$	$\frac{11.6}{7}$	11.5	$\frac{7.4}{5}$	$\frac{12.7}{16}$	$\frac{12.0}{66}$	$\frac{10.6}{100}$
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49.2

51.7

$\frac{11.1}{100}$	$\frac{11.8}{56}$	$\frac{11.3}{11}$	$\frac{10.6}{9}$	10.7	$\frac{10.7}{3}$	$\frac{10.5}{6}$	$\frac{11.5}{14}$	$\frac{10.7}{51}$	$\frac{8.6}{100}$
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50.4

54.1

$\frac{9.9}{100}$	$\frac{10.4}{51}$	$\frac{10.5}{14}$	$\frac{9.6}{12}$	9.3	$\frac{9.3}{6}$	$\frac{8.8}{8}$	$\frac{10.0}{19}$	$\frac{8.3}{59}$	$\frac{6.2}{100}$
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57.4 H₂O Top Rock Rt. Sta 5480 12.35

$\frac{12.9}{92}$	$\frac{13.3}{35}$	$\frac{12.7}{6}$	$\frac{13.1}{4}$	13.3	$\frac{13.5}{6}$	$\frac{13.3}{10}$	$\frac{14.2}{19}$	$\frac{14.3}{27}$	$\frac{13.3}{43}$	$\frac{14.5}{55}$
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58.9	$\frac{11.4}{100}$	$\frac{12.3}{90}$	$\frac{15.3}{72}$
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$\frac{10.1}{59.565}$	$\frac{10.6}{46}$	$\frac{11.8}{42}$	$\frac{11.4}{33}$	$\frac{9.3}{29}$	$\frac{8.5}{14}$	$\frac{11.4}{9}$	$\frac{12.1}{2}$	12.1	$\frac{12.1}{9}$	$\frac{13.0}{15-23}$	$\frac{13.6}{26}$	$\frac{12.7}{34}$	$\frac{11.5}{45}$
$\frac{10.8}{90}$								63.9	$\frac{6.4}{100}$	$\frac{5.5}{59}$	$\frac{5.4}{54}$	$\frac{9.7}{54}$	

61.2

$\frac{9.1}{100}$	$\frac{7.3}{61}$	$\frac{6.2}{51}$	$\frac{3.8}{18}$	$\frac{4.8}{18}$	$\frac{11.5}{4}$	12.0	$\frac{12.3}{7}$	$\frac{11.9}{10-13}$	$\frac{13.3}{17}$	$\frac{11.5}{26}$	$\frac{7.5}{32}$	$\frac{5.2}{37}$
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61.4	$\frac{8.9}{100}$	$\frac{7.1}{88}$	$\frac{6.3}{78}$	$\frac{3.9}{46}$	$\frac{2.9}{39}$
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63.0

$\frac{7.3}{100}$	$\frac{4.3}{71}$	$\frac{4.0}{53}$	$\frac{1.6}{13}$	$\frac{3.3}{15}$	$\frac{10.6}{4}$	11.4	$\frac{11.9}{7}$	$\frac{11.6}{15}$	$\frac{12.7}{14}$	$\frac{11.1}{27}$	$\frac{7.8}{32}$	$\frac{4.8}{33}$	$\frac{6.8}{42}$
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55.8	$\frac{14.5}{100}$	$\frac{12.0}{86}$	$\frac{11.3}{77}$	$\frac{8.9}{64}$	$\frac{7.8}{51}$
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Sta

+

 π

-

87026

59.3 ✓

6

+15

60.5 ✓

①

2.61

860.52[?]

12.35

857.91[?]

+50

54.4 ✓

+80

51.1 ✓

7

50.0 ✓

+50 ↗

47.7 ✓

①

7.90

857.67[?]

10.75

849.77[?]

Lt

Rt.

62.9

 $\frac{7.4}{100} \frac{4.5}{62} \frac{1.5}{22} \frac{1.9}{14} \frac{4.0}{13} \frac{10.7}{2}$
 $11.0 \frac{11.4}{11} \frac{12.0}{16} \frac{12.8}{18} \frac{12.1}{24} \frac{10.9}{27}$
 $\frac{13.6}{82} \frac{8.5}{47} \frac{7.9}{45} \frac{7.1}{39} \frac{6.3}{35} \frac{5.5}{33} \frac{8.0}{33}$
 $\Delta \frac{15.0}{100} \underline{55.3}$

63.9

 $\frac{6.4}{100} \frac{3.8}{66} \frac{4.1}{43} \frac{5.8}{4} \frac{7.6}{3}$
 $9.8 \frac{10.8}{1} \frac{10.5}{14} \frac{10.4}{33} \frac{11.8}{47} \frac{55.5}{14.8} \frac{14.8}{100}$

Top Rock Rt. Sta 5480

53.7

 $\frac{6.8}{100} \frac{6.4}{60} \frac{6.7}{27} \frac{6.6}{8} 6.1 \frac{6.0}{13} \frac{8.2}{43} \frac{10.0}{62} \frac{11.3}{95}$

49.2

52.2

 $\frac{8.3}{100} \frac{8.8}{63} \frac{9.1}{26} \frac{9.8}{15} \frac{9.6}{10} 9.4 \frac{9.5}{13} \frac{10.5}{21} \frac{11.2}{61} \frac{10.8}{100}$

49.7

49.9

 $\frac{10.6}{110} \frac{11.1}{54} \frac{10.6}{21} \frac{11.2}{15} \frac{10.7}{10} \frac{11.0}{3} 10.5 \frac{10.6}{18} \frac{11.4}{44} \frac{10.1}{100}$

50.4

46.6

 $\frac{13.9}{100} \frac{13.7}{56} \frac{12.8}{25} \frac{13.3}{13} \frac{12.8}{9} 12.8 \frac{12.5}{12} \frac{12.0}{27} \frac{11.6}{68} \frac{12.9}{100}$

47.6

Sta

+

 π

-

857.67?

46.2 ✓

8

+50

45.6 ✓

9

45.7 ✓

+50

45.6 ✓

+90

45.5 ✓

10

± Haas Rd

45.7 ✓

+10

45.4 ✓

+17

45.7 ✓

B.M.

7.92

937.75

~~45.1~~

46.4

 $\frac{11.3}{100}$

45

 $\frac{11.1}{19}$ $\frac{11.7}{74}$ $\frac{11.2}{10}$

11.5

 $\frac{11.3}{13}$ $\frac{10.8}{15}$ $\frac{11.3}{26}$ $\frac{12.4}{59}$ $\frac{13.8}{100}$

43.9

47.2

 $\frac{10.5}{100}$ $\frac{10.4}{81}$

59

 $\frac{11.2}{25}$ $\frac{12.2}{14}$ $\frac{11.6}{11}$

12.1

 $\frac{11.7}{3}$ $\frac{11.9}{14}$ $\frac{12.8}{28}$ $\frac{14.0}{66}$ $\frac{14.5}{100}$

41.2

46.6

 $\frac{11.1}{100}$

55

 $\frac{11.4}{25}$ $\frac{12.1}{13}$ $\frac{11.6}{11}$

12.0

 $\frac{12.1}{16}$ $\frac{12.7}{27}$ $\frac{14.0}{69}$ $\frac{14.6}{100}$

43.1

46.0

 $\frac{11.7}{100}$ $\frac{11.9}{52}$ $\frac{11.5}{35}$ $\frac{11.8}{25}$ $\frac{12.5}{13}$ $\frac{12.0}{10}$

12.1

 $\frac{12.1}{15}$ $\frac{12.3}{26}$ $\frac{12.8}{68}$ $\frac{14.0}{100}$

43.7

45.4

 $\frac{12.3}{100}$ $\frac{12.2}{82}$ $\frac{12.0}{46}$ $\frac{12.3}{15}$

12.2

 $\frac{12.3}{19.50}$ $\frac{12.5}{100}$

45.2

45.6

 $\frac{12.1}{100}$ $\frac{12.0}{56}$

12.0

 $\frac{12.1}{60}$ $\frac{12.5}{100}$

45.2

45.2

 $\frac{12.5}{100}$ $\frac{12.1}{47}$

12.3

 $\frac{12.6}{57}$ $\frac{13.2}{100}$

44.5

45.8

 $\frac{11.9}{100}$ $\frac{11.7}{51}$

12.0

 $\frac{11.9}{60}$ $\frac{12.3}{100}$

45.4

Top L Iron Sta 10+17

