

DR 8 - BK 113

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ DITCH _____ Survey

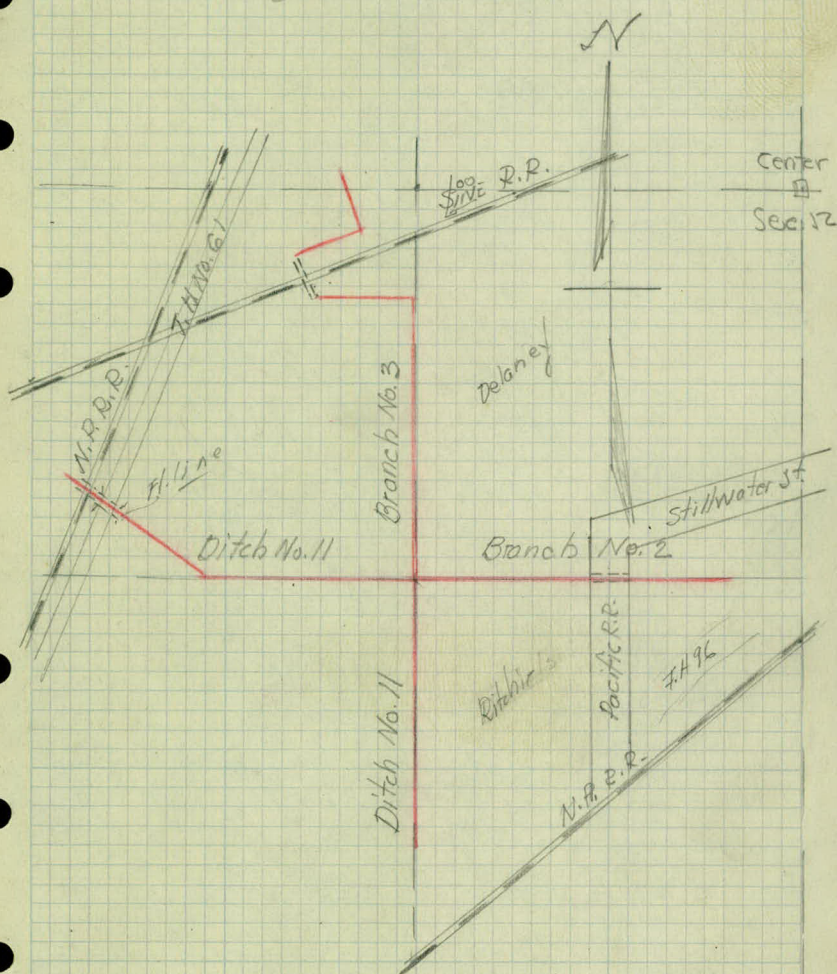
_____ DITCH N^o. 11 _____

~~From~~ Branch 2&3 _____

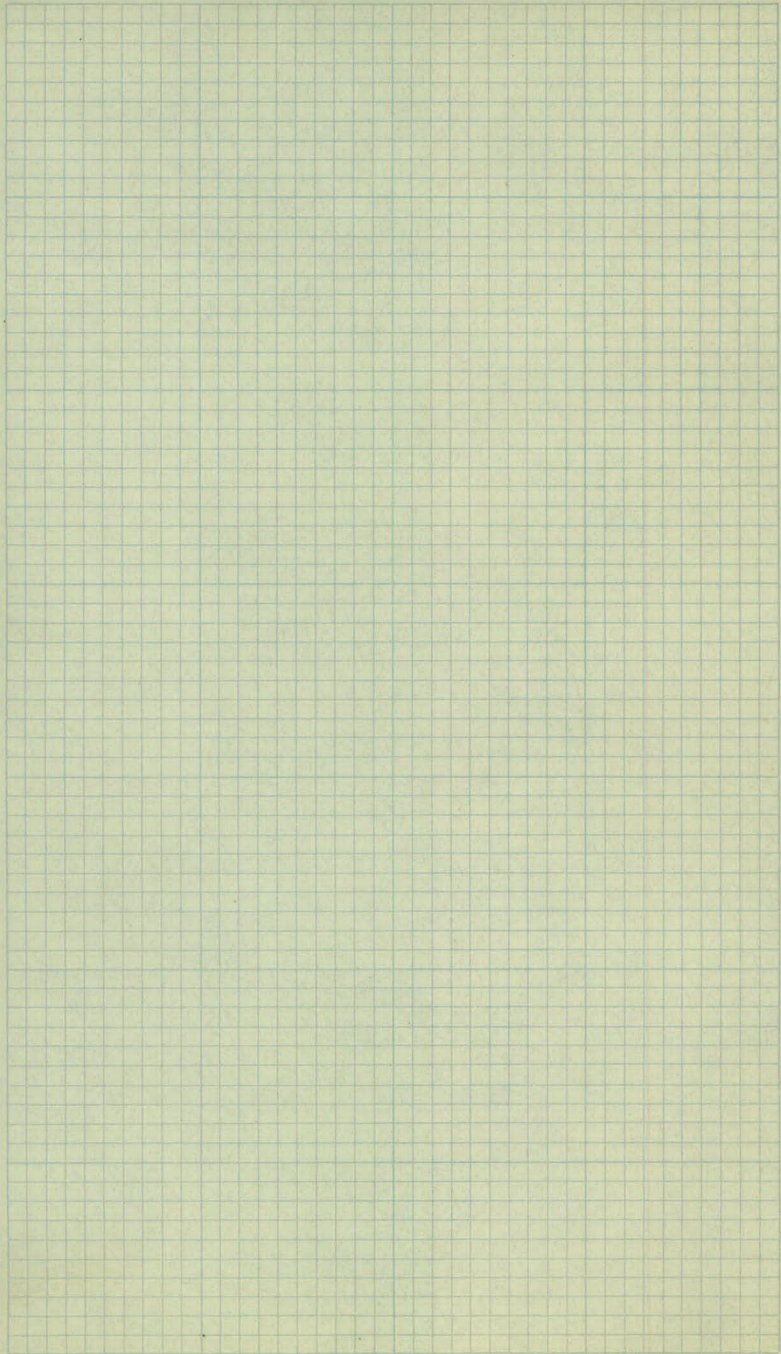
Road Acc't. No. _____

Date Filed 4-37 _____ File _____

Survey Branch
Ditches 2 & 3
Ditch #11



W. N. Carlson
April 7, 1937



Topography.

Branch Ditch No. 2

5

4

3

2

1

0 = Int. Ditches N & S. - E. W.

W.H.C.
K.H.
L.B.H.
A.M.
G.J.G. 4-7-37

+68-15" Will - 11'
+58-12" Will - 11'
+31.5-F. con. 1'
+25-2-10" Vit 12'-South
Cattle Pass 14'-North

Cult.

+60- End Will Branch in Ditch
Small.

Branch Ditch No. 2

Pasture

Box Dry

Box Dry
Pasture

+35-Box Sna 11 Will. Box in Ditch

+10- N.S Fence Line

Branch No. 3

Ditch

Main



13

12

11 End Ditch -

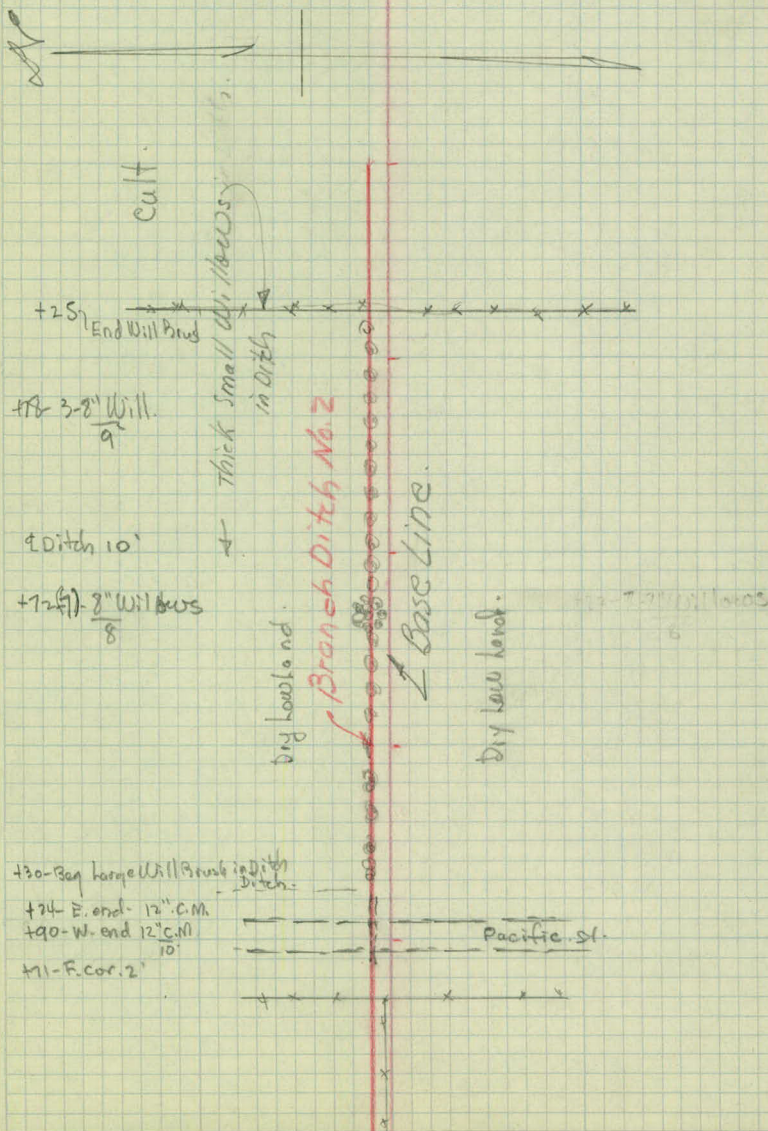
10

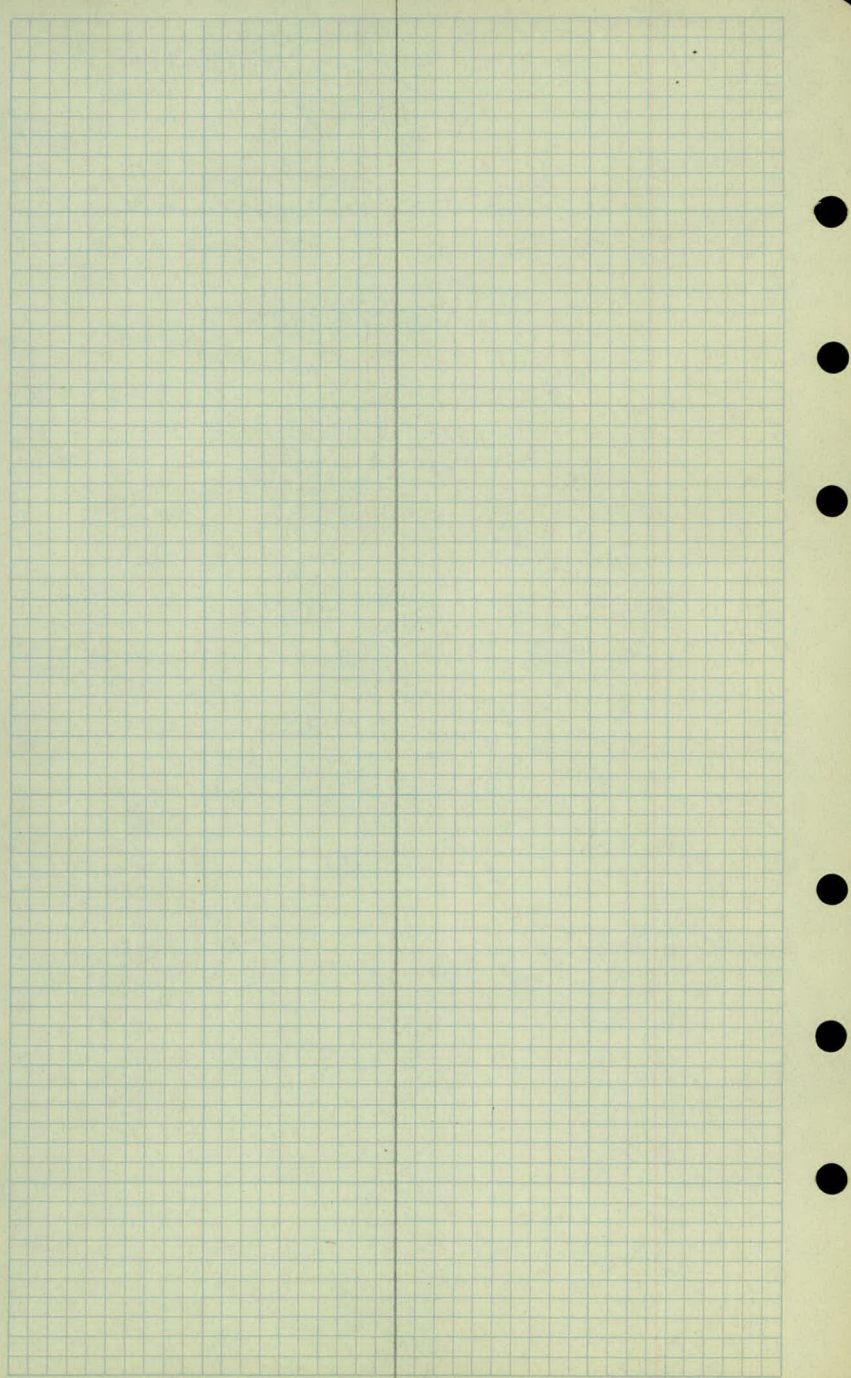
9

8

7

6





Topography
Branch Ditch #3

5

114 - Small Ditch X's Base Line

4

3

113 - Small Ditch X's Base Line

2

1

0

Brush-78-50 6

Brush-27-50

+60-Brush 20

Brush 45-55

Brush-31-70
& Ditch-50

Brush-10-78

428-F. cor. 60

Brush-35

+70-Brush Line 78-60

+48-5-16" P. 70-37
0.40 = 50 RT = F. 60

Int. of Ditch

Branch
No. 2

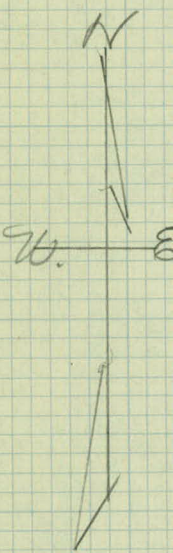
Ditch full willows
& Poplars

Base Line.

Low ground wet.

Ditch full Trees & Brush

Brushes 10
Small Poplars
Brush



+34-Brush 0

+53-Brush 0

+70-Brush 15

Main Ditch

12

11+48.6- ± 800
LINE

11 100-R.R. R.O.W. 0'

10

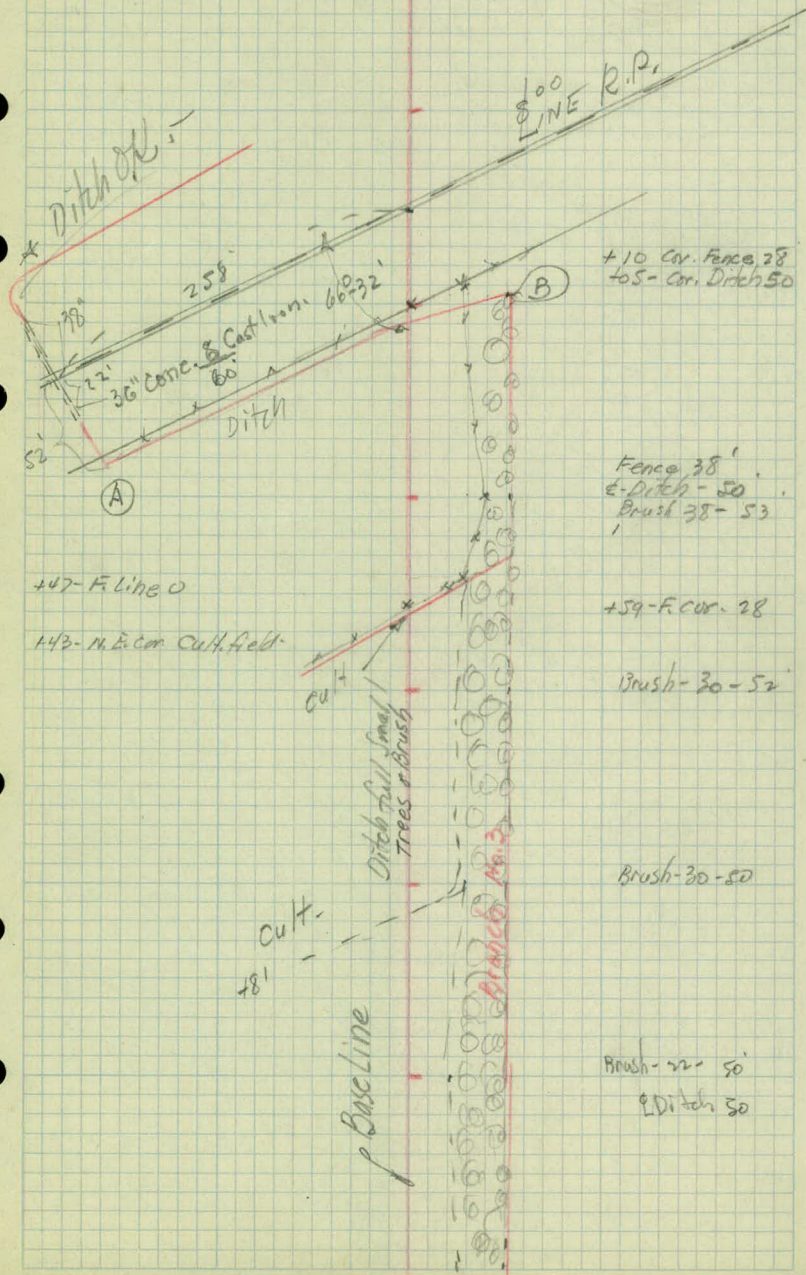
+ 45- Small Ditch X-Base Line -

9

8

7

6



Ditch off

100 LINE R.P.

258'

66-32'

(A)

(B)

+10 Cor. Fence 38
+5 Cor. Ditch 50

Fence 38'
E-Ditch-50
Brush 38-53

+47-F Line 0

+43-M.E. Cor. Cult. field

+59-F. Cor. 28

Brush-30-52

Cult.

Ditch full small
Trees & Brush

Brush-30-50

Cult.

+8'

Base Line

Brush-22-50
E Ditch 50

14

13

Levels
and X-Sections.

+

-

B.M.	11.30	935.30 ✓		924.00
	0.66	931.33 ✓	4.63	930.67

Out Let	Flow Line - South end	11.70	919.63 ✓
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Culo. thru $\frac{8}{16}$ line

In let	North end,	12.20	919.13
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T.P.	2.49	915.40 ✓	8.42	922.91 ✓
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Elev. Ditch Bottom	Point A	5.5	919.90
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" "	Point B	5.9	19.50
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540

7450

840

T.P.	4.30	926.23 ✓	3.53	921.87
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T.P.			5.35	920.89 ✓
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Top Conc. Head Wall T.A. #61 & Main Ditch.
 Top Rail over culv. ~~500~~ ⁵⁰⁰

⁵⁰⁰
 Top End Culv. West — East
 Base Line = 0

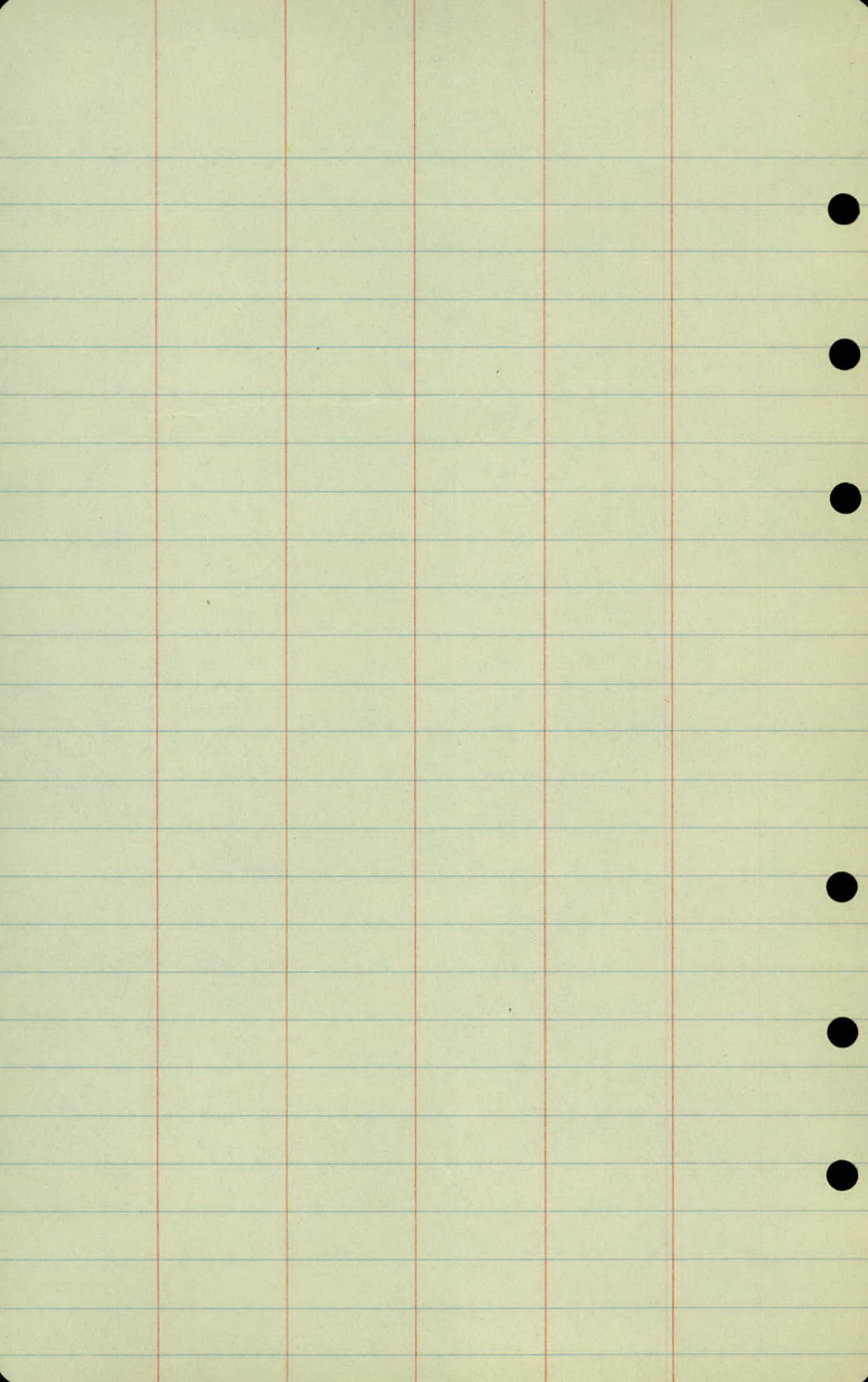
918.3
 $\frac{53}{47} \quad \frac{69}{50} \quad \frac{71}{54} = \text{Bottom Ditch} \quad \frac{58}{58}$

$\frac{5.2}{47} \quad \frac{7.0}{50} \quad \frac{7.0}{54} \quad \frac{5.2}{59}$

918.3

$\frac{7.0}{15.2} = \text{Bottom Main Ditch.}$

Top West side Post of Wing Dam. @ Junction.



Branch Ditch No. 2

±
DITCH

916.25

0100 = Sum. of Ditches

918.1

0150

18.4

110

18.4

210

18.4

310

18.8

410

19.0

510

20.0

Flow Line Culv. West end.

6.2

920.0

T.P. 8.17 928.96 - 5.44 - 920.79 -

Flow Line Culv. East end

9.0

920.0

610

20.7

6189.4

Flow Line Culv.

8.95

20.0

20.00

7124

Flow Line Culv.

8.70

20.5

20.26

North

South

$$\frac{1}{2} \quad \frac{8.1}{10}$$

$$\frac{5.4}{14} \quad \frac{7.8}{12} \quad \frac{7.8}{8} \quad \frac{5.4}{6}$$

$$\frac{5.6}{15} \quad \frac{7.8}{13} \quad \frac{7.8}{8} \quad \frac{5.6}{6}$$

$$\frac{5.8}{15} \quad \frac{7.8}{13} \quad \frac{7.8}{9} \quad \frac{5.8}{6}$$

$$\frac{5.7}{13} \quad \frac{7.4}{10} \quad \frac{7.4}{7} \quad \frac{4.3}{3}$$

$$\frac{5.3}{14} \quad \frac{7.2}{11} \quad \frac{7.2}{8} \quad \frac{4.0}{3}$$

$$\frac{3.8}{15} \quad \frac{6.2}{11} \quad \frac{6.2}{9} \quad \frac{3.0}{3}$$

Base Line.

Top W. end culv.

$$\frac{6.0}{17} \quad \frac{8.3}{11} \quad \frac{8.3}{9} \quad \frac{6.0}{4}$$

$$\frac{5.7}{16} \quad \frac{8.9}{11} \quad \frac{8.9}{9} \quad \frac{6.9}{7} \quad \frac{5.5}{3}$$

8.6 side
ctr. elev

$$\frac{6.5}{16} \quad \frac{8.5}{11} \quad \frac{8.5}{9} \quad \frac{6.5}{5}$$

928.96

840

20.5

9

20.9

10

20.5

11

20.4

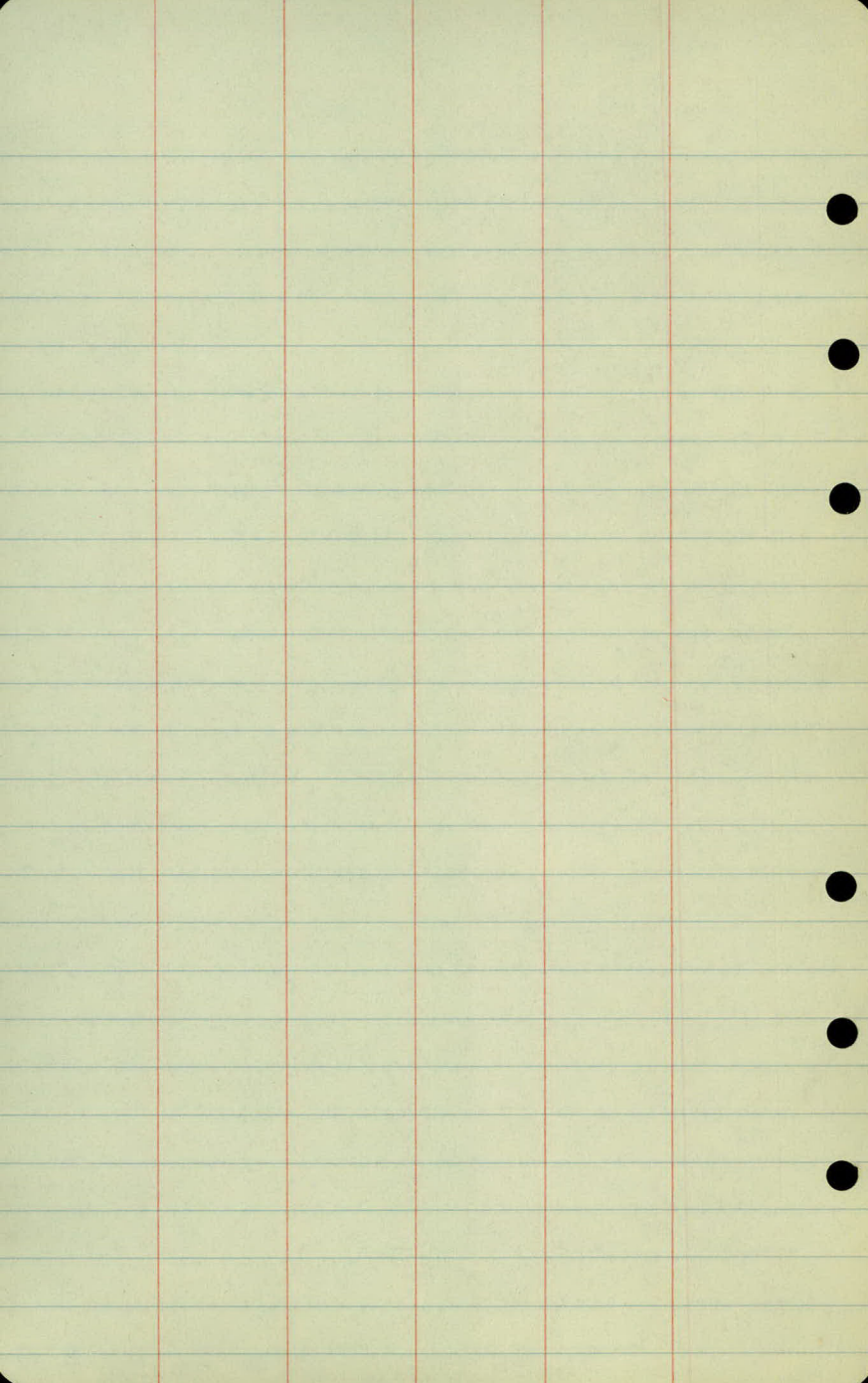
North

$$\begin{array}{r} 64 \\ 17 \end{array} \quad \begin{array}{r} 85 \\ 12 \end{array} \quad \begin{array}{r} 85 \\ 9 \end{array} \quad \begin{array}{r} 69 \\ 6 \end{array}$$

$$\begin{array}{r} 68 \\ 16 \end{array} \quad \begin{array}{r} 81 \\ 12 \end{array} \quad \begin{array}{r} 81 \\ 9 \end{array} \quad \begin{array}{r} 67 \\ 4 \end{array}$$

$$\begin{array}{r} 63 \\ 16 \end{array} \quad \begin{array}{r} 85 \\ 12 \end{array} \quad \begin{array}{r} 85 \\ 9 \end{array} \quad \begin{array}{r} 63 \\ 5 \end{array}$$

$$\begin{array}{r} 76 \\ 16 \end{array} \quad \begin{array}{r} 86 \\ 11 \end{array} \quad \begin{array}{r} 86 \\ 8 \end{array} \quad \begin{array}{r} 76 \\ 5 \end{array}$$



Branch Ditch #3

£
DITCH

Dec P. 4.52 928.40 920.88

140 18.4

240 18.3

340 18.6

440 18.6

540 18.4

640 18.6

740 18.8

840 18.6

T.P. 11.01 931.57 ✓ 4.84 920.86

940 18.3

1040 19.1

1140 18.9

See Page 29.

T.P.

B.M.

4.52 935.21 ✓ 0.88

11.19

930.69

924.02

East

$$\begin{array}{r} 46 \\ 48 \end{array} \quad \begin{array}{r} 20 \\ 49 \end{array} \quad \begin{array}{r} 7.0 \\ 55 \end{array} \quad \begin{array}{r} 46 \\ 59 \end{array}$$

$$\begin{array}{r} 53 \\ 48 \end{array} \quad \begin{array}{r} 7.1 \\ 50 \end{array} \quad \begin{array}{r} 7.1 \\ 55 \end{array} \quad \begin{array}{r} 5.3 \\ 58 \end{array}$$

$$\begin{array}{r} 5.0 \\ 47 \end{array} \quad \begin{array}{r} 6.8 \\ 49 \end{array} \quad \begin{array}{r} 6.8 \\ 55 \end{array} \quad \begin{array}{r} 5.0 \\ 57 \end{array}$$

$$\begin{array}{r} 5.1 \\ 47 \end{array} \quad \begin{array}{r} 6.8 \\ 49 \end{array} \quad \begin{array}{r} 6.8 \\ 55 \end{array} \quad \begin{array}{r} 5.1 \\ 57 \end{array}$$

$$\begin{array}{r} 5.0 \\ 47 \end{array} \quad \begin{array}{r} 7.0 \\ 49 \end{array} \quad \begin{array}{r} 7.0 \\ 54 \end{array} \quad \begin{array}{r} 5.0 \\ 56 \end{array}$$

$$\begin{array}{r} 4.7 \\ 46 \end{array} \quad \begin{array}{r} 6.8 \\ 48 \end{array} \quad \begin{array}{r} 6.8 \\ 54 \end{array} \quad \begin{array}{r} 4.7 \\ 56 \end{array}$$

$$\begin{array}{r} 4.4 \\ 46 \end{array} \quad \begin{array}{r} 6.6 \\ 48 \end{array} \quad \begin{array}{r} 6.6 \\ 53 \end{array} \quad \begin{array}{r} 4.4 \\ 55 \end{array}$$

$$\begin{array}{r} 4.1 \\ 46 \end{array} \quad \begin{array}{r} 6.8 \\ 48 \end{array} \quad \begin{array}{r} 6.8 \\ 53 \end{array} \quad \begin{array}{r} 4.0 \\ 55 \end{array}$$

$$\begin{array}{r} 10.2 \\ 46 \end{array} \quad \begin{array}{r} 12.3 \\ 48 \end{array} \quad \begin{array}{r} 13.3 \\ 52 \end{array} \quad \begin{array}{r} 10.2 \\ 54 \end{array}$$

$$\begin{array}{r} 10.6 \\ 46 \end{array} \quad \begin{array}{r} 12.5 \\ 49 \end{array} \quad \begin{array}{r} 12.5 \\ 52 \end{array} \quad \begin{array}{r} 10.6 \\ 54 \end{array}$$

$$\begin{array}{r} 10.6 \\ 46 \end{array} \quad \begin{array}{r} 12.7 \\ 48 \end{array} \quad \begin{array}{r} 12.7 \\ 52 \end{array} \quad \begin{array}{r} 10.6 \\ 54 \end{array}$$

