

Book 88 Dr 16

OF COUNTY ENGINEER
RAMSEY CO. MINN.

PLAN

Survey

DITCH # 7

AT

From

To

CENTERVILLE RD.

Road Acc't. No.

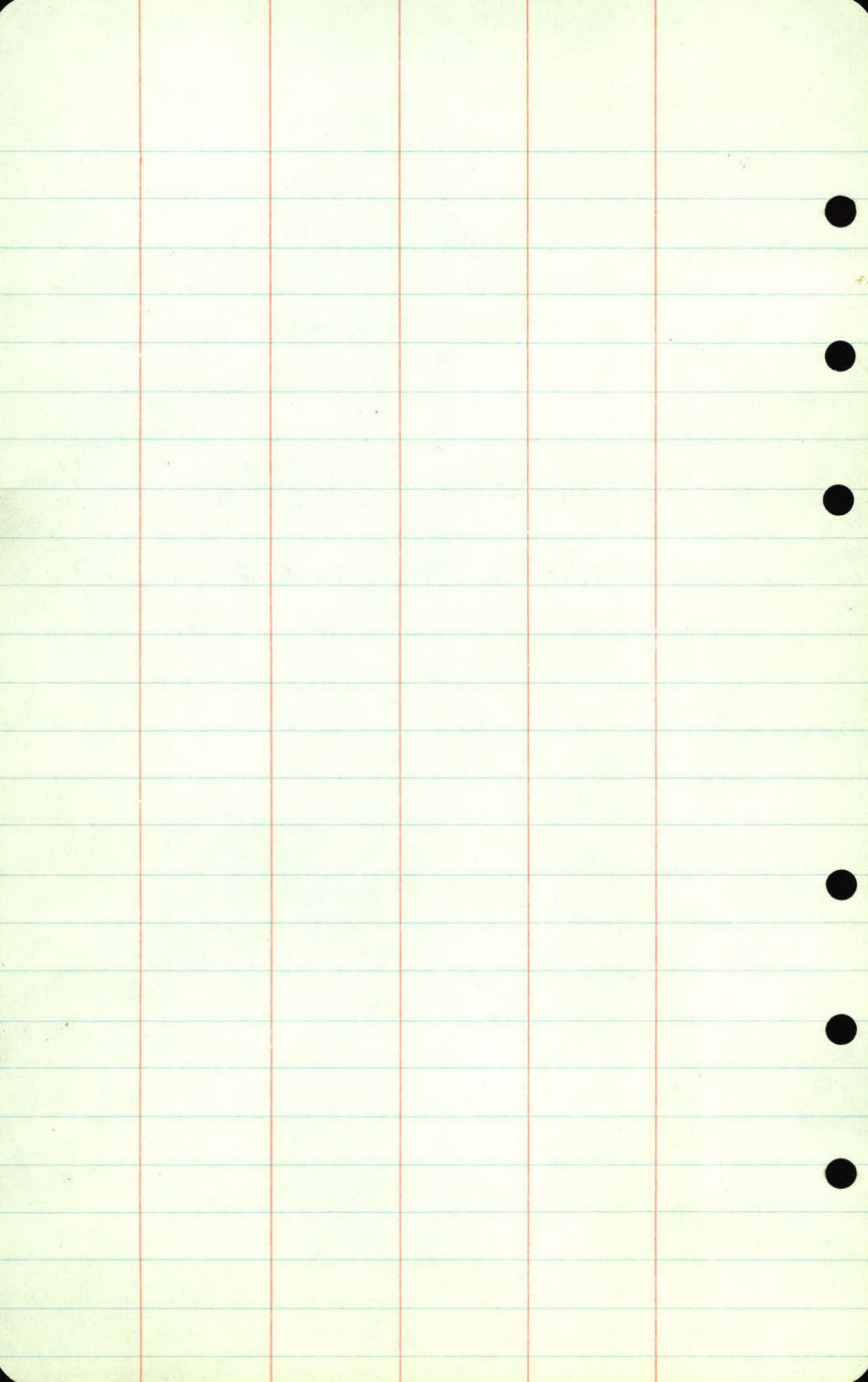
Date Filed. 1-30-43.

File

Drawn up.
7/9/42
Paper plane sheet
WSP.

AL 917 on Centerville

Refer to [Dr 8 Book 143]



Align
Ditch # 7

From & Centerville Rd
400' NEast & 400' No West.

Sta	Pt.	ΔL	ΔR
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4+00	P.O.T	Centerville Rd	
= Sta 41+47		↗	

3+57.8°	P.I	34° 50'
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3+12.8°	P.O.T.
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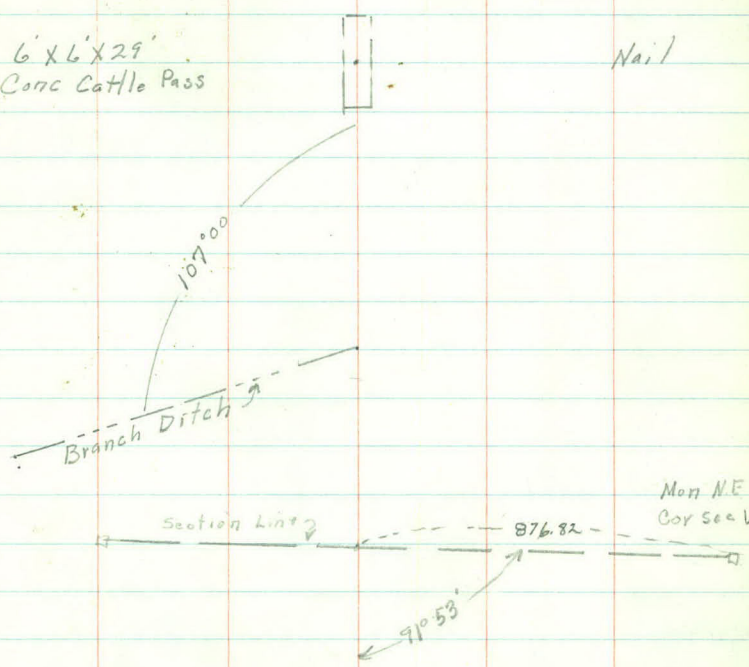
1+81.2°	P.I	32° 27'
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0+95.2°	P.I	26° 02'
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Description

6' X 6' X 29'
Conc Cattle Pass

Nail



Sta

Pt.

Alt

Asht.

5+78⁵⁰

P. 1

42°30'

4+63²⁰

P 1

31°46'

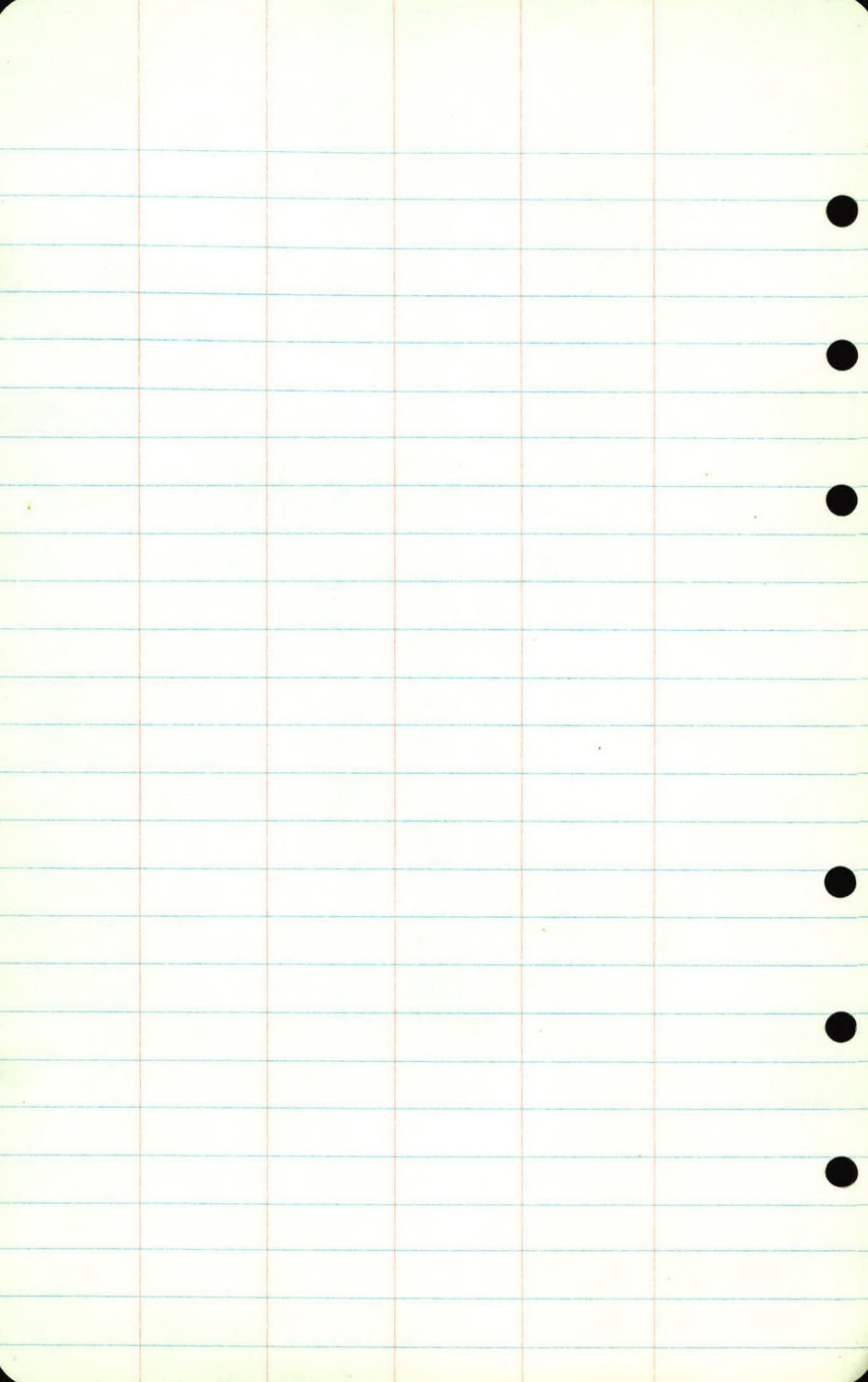
Description

D

Hub

D

Hub



Profile Levels + x Sections

Ditch # 17

Sta	+	Δ	-	Elev
B.M.	3.73	896.60		892.87
0+00				87.1

+50				87.1
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0+95 ²⁰	P1			86.0
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1				86.1
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+50				86.4
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+81 ²⁰	P1			86.1
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2				86.0
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+50				84.6
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+99		Inv 36" X 22" CM		82.91
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3				88.0
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+14				88.0
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+19		Inv 36" CM		83.11
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T.P	9.80	893.71	1269	883.91
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Lt

£

Rt

Top N.E. Cor. Cono. Abut. Cattle Pass

9.5

9.5

10.6

10.5

10.2

10.5

10.6

12.0

13.67

86

86

13.49

893.71

Sta + π - Elev

3+50 83.6

+57⁸⁰ P1 83.5

+62 81.3

+75 80.2

+75 End Conc Slab 83.14

+86 82.91

BM 3.85 896.92 0.83 892.88

892.97 892.87

+89 93.8

4 94.2

+10 93.9

+15 92.2

+15 79.2

+22 79.4

LH

Z

Rt

$$\frac{6.5}{50} \frac{6.7}{36} \frac{8.1}{29} \frac{8.3}{15} \frac{8.8}{5} \frac{9.6}{2} 10.1 \frac{11.3}{2.4} \frac{9.8}{5} \frac{7.2}{11} \frac{6.3}{23} \frac{6.4}{37} \frac{5.3}{50}$$

$$\frac{7.0}{50} \frac{7.2}{34} \frac{8.3}{27} \frac{8.7}{11} 10.2 \frac{11.4}{1.3} \frac{9.9}{6} \frac{7.3}{13} \frac{6.1}{23} \frac{6.5}{33} \frac{5.2}{50}$$

$$\frac{7.3}{50} \frac{7.4}{27} \frac{7.6}{19} \frac{8.4}{13} \frac{9.7}{8} \frac{12.1}{7} 12.4 \frac{12.4}{1} \frac{10.4}{3} \frac{7.3}{11} \frac{6.3}{23} \frac{6.6}{38} \frac{6.1}{50}$$

$$\frac{7.3}{50} \frac{6.4}{35} \frac{7.3}{20} \frac{7.3}{8} \frac{13.5}{1} 13.5 \frac{13.5}{3} \frac{9.3}{5} \frac{5.9}{12} \frac{5.2}{19} \frac{6.2}{28} \frac{5.7}{50}$$

$$\frac{8.28}{8.7} \frac{10.57}{7} 10.57 \frac{10.57}{7} \frac{8.62}{7.8}$$

$$\frac{10.8}{3} \text{ Conc slope } 10.8 \frac{10.8}{3}$$

Top N.E. Cor Abut

$$\frac{2.8}{50} \frac{2.8}{19} 2.9 \frac{2.8}{25} \frac{2.4}{50}$$

$$\frac{2.4}{50} \frac{2.5}{25} 2.5 \frac{2.3}{25} \frac{2.0}{50}$$

$$\frac{2.7}{50} \frac{2.7}{25} 2.8 \frac{2.7}{25} \frac{2.1}{50}$$

$$\frac{4.8}{50} \frac{4.3}{33} \frac{4.3}{18} 4.5 \frac{6.5}{22} \frac{5.3}{41} \frac{2.7}{50}$$

$$\frac{4.8}{50} \frac{4.3}{33} \frac{4.3}{18} \frac{4.5}{3} \frac{17.5}{3} 17.5 \frac{17.5}{3} \frac{4.5}{3} \frac{6.5}{22} \frac{5.3}{41} \frac{2.7}{50}$$

$$\frac{5.3}{50} \frac{5.0}{32} \frac{5.9}{28} \frac{7.5}{25} \frac{9.9}{17} \frac{13.4}{11} \frac{17.1}{7} 17.3 \frac{15.5}{6} \frac{14.9}{10} \frac{12.3}{12} \frac{9.9}{25} \frac{8.0}{50}$$

Sta	+	π	-	Elev
		896.72		
4+50				79.1
T.P.	5.65	890.85	11.52	885.20
+13.71	P.I			78.5
5				77.8
+50				76.5
+78.50	P.I			77.3
6				77.3
+50				77.0
7				76.4
+50				76.0
8				76.2
T.P.	11.38	896.58	5.65	885.20
B.M			3.71	892.87

Lt.

K

Rt

7

$\frac{5.0}{50}$	$\frac{6.3}{33}$	$\frac{8.5}{21}$	$\frac{9.6}{14}$	$\frac{14.5}{7}$	$\frac{17.3}{5}$	17.6	$\frac{17.6}{1}$	$\frac{15.3}{3}$	$\frac{11.3}{13}$	$\frac{10.3}{27}$	$\frac{8.7}{50}$
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12.4

13.1

14.4

13.6

13.6

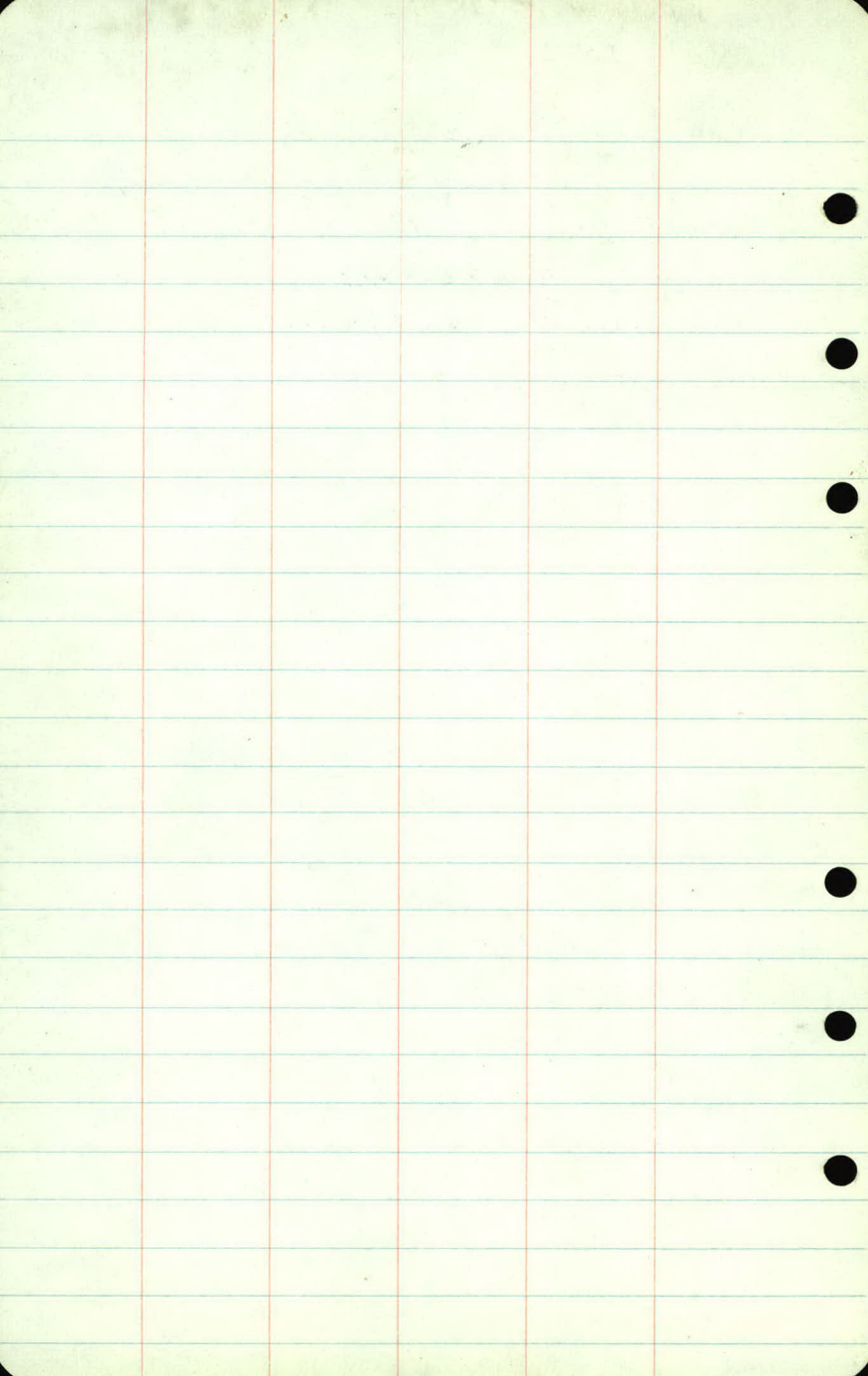
13.9

14.5

14.9

14.7

Top N.E. Cor East Abut 6' x 6' x 29 Arch



Profile Levels

Branch Ditch

Sta	+	π	-	Elev
B.M	402	896.89		892.87
0+00	= 3+63	A Line		81.0
+09				81.7
+13				83.7
+29				83.9
+41				83.4
+50				83.7
1				84.1
+50				84.8
2				84.4

~~£~~

Top NE Cor East Abut.

15.9

15.2

13.2

13.0

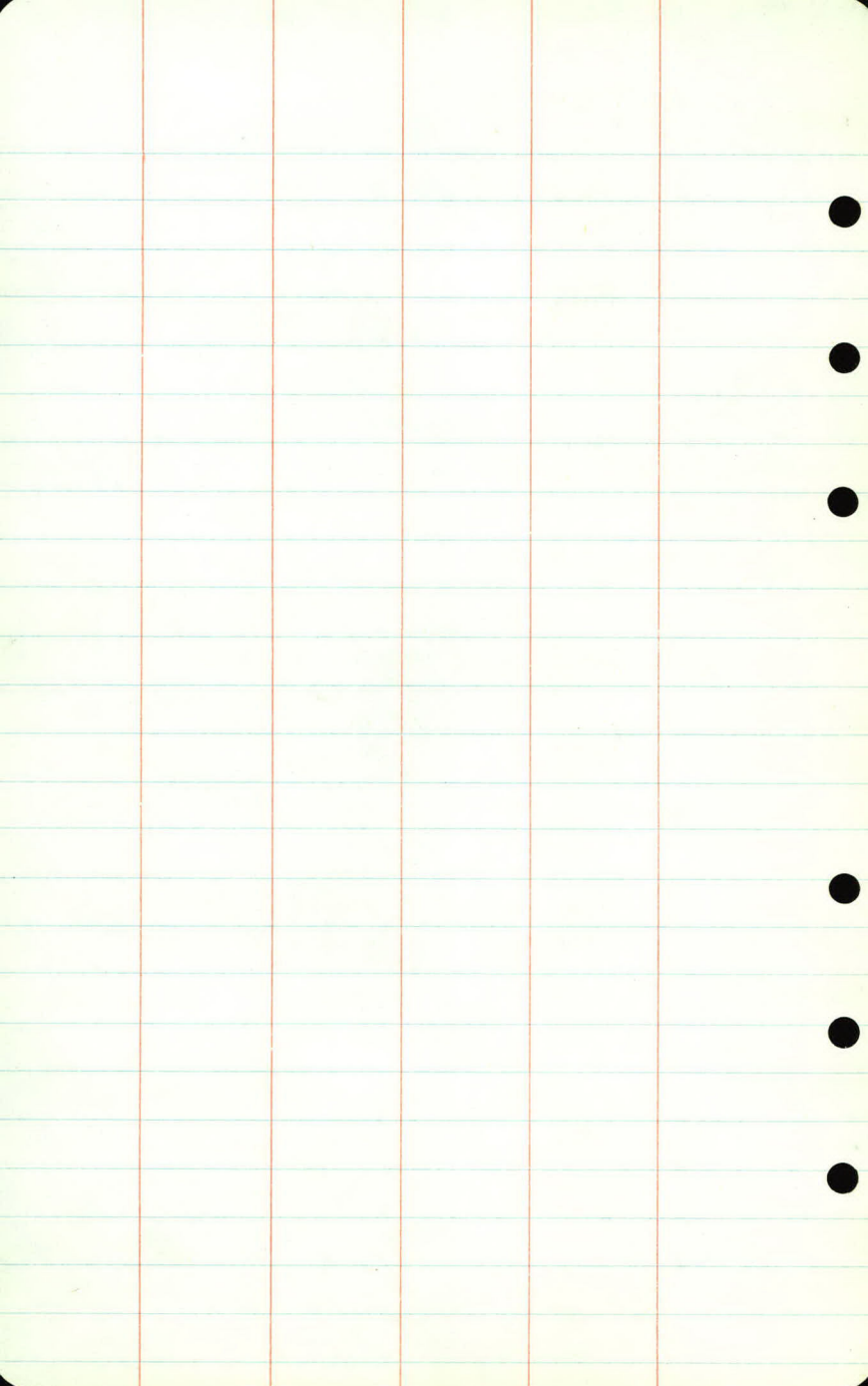
13.5

13.2

12.8

12.1

12.5



X sections

Centerville Rd

Sta 40+50 to 42+00

Sta	+	π	-	Elev
B.M	4.02	896.89		892.87
40+50				94.5
41				94.3
+23				94.3
+42				94.2
+53				94.3
+63				94.4
42				94.8

24

✱

R+

11

Top N.E. Cor East About 6' x 6' x 29 Arch Culv.

$\frac{1.0}{50}$	$\frac{2.5}{35}$	$\frac{3.2}{25}$	$\frac{4.3}{21}$	$\frac{4.4}{17}$	$\frac{2.8}{14}$	24	$\frac{2.7}{70}$	$\frac{8.0}{20}$	$\frac{9.2}{25}$	$\frac{10.0}{41}$	$\frac{10.0}{50}$
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$\frac{5.3}{75}$	$\frac{5.0}{50}$	$\frac{5.3}{23}$	$\frac{5.3}{16}$	$\frac{2.9}{11}$	26	$\frac{3.1}{11}$	$\frac{10.0}{22}$	$\frac{10.7}{25}$	$\frac{11.0}{50}$
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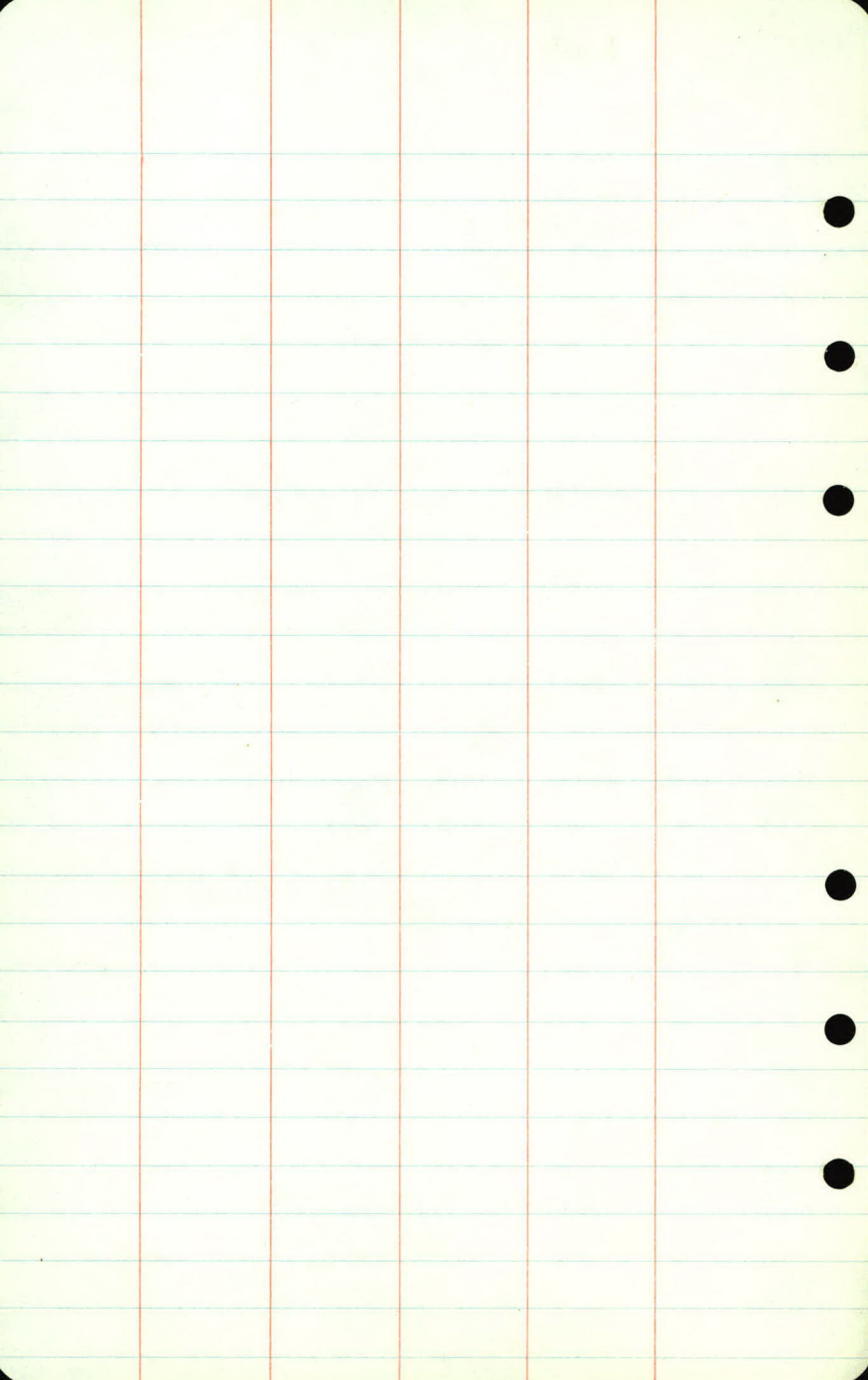
$\frac{7.7}{60}$	$\frac{6.8}{46}$	$\frac{5.4}{24}$	$\frac{4.2}{15}$	$\frac{3.2}{11}$	26	$\frac{3.1}{11}$	$\frac{9.5}{22}$	$\frac{11.0}{25}$	$\frac{10.9}{36}$	$\frac{12.4}{43}$	$\frac{12.4}{50}$	$\frac{12.4}{55}$
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$\frac{11.3}{60}$	$\frac{14.9}{50}$	$\frac{15.9}{36}$	$\frac{15.8}{26}$	$\frac{11.5}{22}$	$\frac{7.8}{18}$	$\frac{3.1}{11}$	$\frac{12.0}{25}$	$\frac{13.0}{32}$	$\frac{15.5}{35}$	$\frac{13.1}{41}$	$\frac{11.6}{42}$	$\frac{11.6}{60}$
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$\frac{14.2}{50}$	$\frac{14.0}{42}$	$\frac{15.2}{41}$	$\frac{16.0}{29}$	$\frac{15.5}{22}$	$\frac{12.3}{21}$	$\frac{3.0}{11}$	$\frac{3.1}{10}$	$\frac{4.2}{14}$	$\frac{10.0}{26}$	$\frac{10.9}{35}$	$\frac{13.0}{50}$	$\frac{14.2}{52}$	$\frac{13.1}{60}$
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$\frac{10.8}{50}$	$\frac{10.8}{46}$	$\frac{10.9}{26}$	$\frac{9.0}{20}$	$\frac{2.8}{11}$	2.5	$\frac{3.0}{11}$	$\frac{2.4}{19}$	$\frac{8.7}{28}$	$\frac{9.7}{37}$	$\frac{10.1}{50}$
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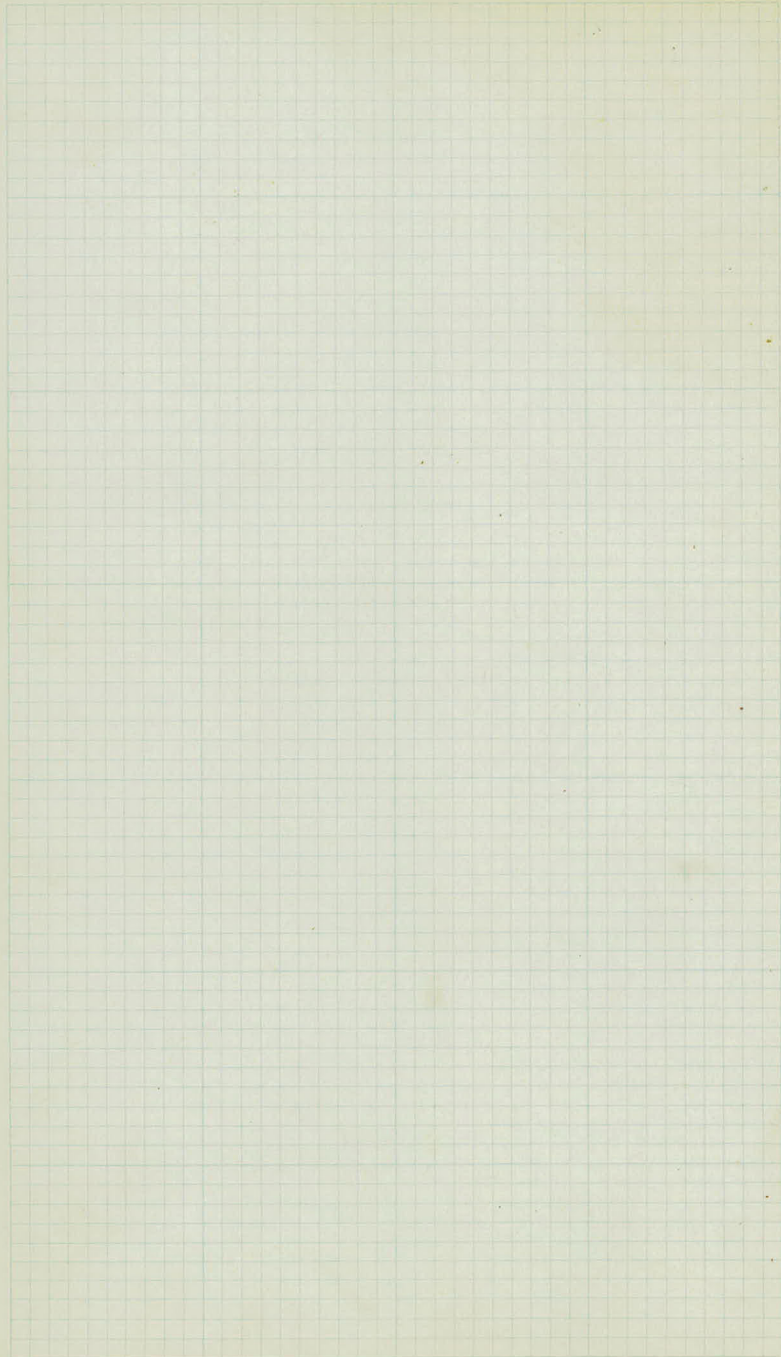
$\frac{8.7}{50}$	$\frac{8.0}{32}$	$\frac{7.2}{30}$	$\frac{4.8}{27}$	$\frac{3.5}{18}$	$\frac{2.2}{14}$	21	$\frac{2.5}{11}$	$\frac{6.3}{18}$	$\frac{7.9}{22}$	$\frac{8.8}{30}$	$\frac{9.2}{47}$	$\frac{8.9}{50}$
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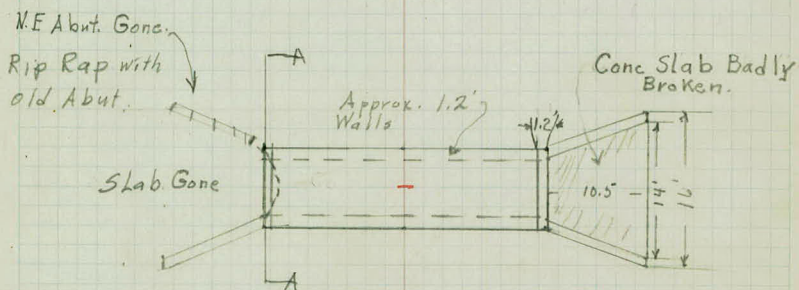
Topography

Cattle Pass Ditch #7

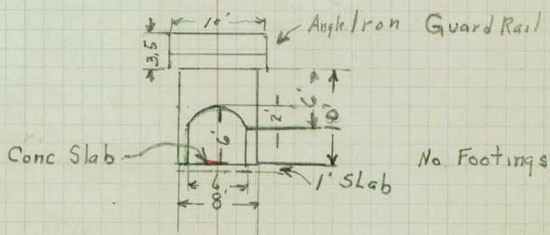
Intersecting
Centerville Road



PLAN



Section thru A-A





Topography
Centerville Rd.
Sta 40+00 To 42

Rd Rd

42

9 9

+89 T.P. 24'

+47 $\pm$ 6x6' x 29' Cattle Pass

41

9 See Detail Page
9

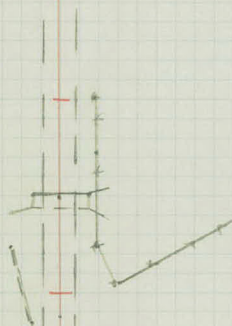
+84 Beg 9" V. 17'

40

9 9

+00 Fc 29'
 +73 Fc 28'
 +62 Beg Fc 26'
 +60 G. Pole 25'
 +52 End Ra. / 13.9'
 +42 Beg Ra. / 13.9'
 +23 End 9" Vit 26'
 +10 Ent.
 +00 End Fc 24'
 +88 Rge Tie Fc
 +76 Fc Cov 25'
 +72 36" Maple 35'

+45 TP 17'



+00 Fc 18'
 +73 Fc 18'
 +61 P.P 27'
 +52 End Ra. / 13.6
 +42 Beg Ra. / 13.5'
 +25 Fc 20'
 +02 Fc Cov 27'

+87 Rge tie Fc

Cultivated

