

FIELD BOOK

364

# KEUFFEL & ESSER CO.

DRAWING MATERIALS  
AND  
SURVEYING INSTRUMENTS.  
NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

## TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE SIDE SLOPES 1 TO 1  
FOR SINGLE TRACK EXCAVATION

PLEASE RETURN TO  
GAUGA COUNTY ENGINEER

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
	0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	20.0	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	32.0	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	33.0	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	35.0	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

For Keith's Railroad Curve Tables see end of book.

Navroo Road Middlefield Twp.  
TH. 123 Pg 1-4

Georgia Road Franks & Rd East  
TH. 124 Middlefield Twp Page 7-10

County Line Road  
Huntsburg & Windsor Twp's  
Page 13-21

County Highway #45 (Spencer)  
From Franks & Spencer School House  
X Sec 5 Pg 42 Page 29-39

Drainage Ditch from CH #45  
Southwaly to Mayfield Road  
Page 40

County Home Water Supply  
Location & Levels  
Page 71

County Home & Pope Farm 40

County Home Spring LEVELS Pg 71  
& TOPS OF EAST FIELDS Pg 77

134

Please return to the  
County Surveyors Office  
Chardon, Ohio

T.H. 123

# Nauvoo Road & Location

Note: sidestakes are set 25' Rt or South

1950 side staked every 100' @ 30' Rt  
(only to Sta 24+49)

Sta 3+77.25

POT

May 1950 Side staked 30' Rt  
0 to - 24+49

Sta 0+00

Beginning of Imp

spike set

6/8/34

Richey  
Pomeroy  
Road

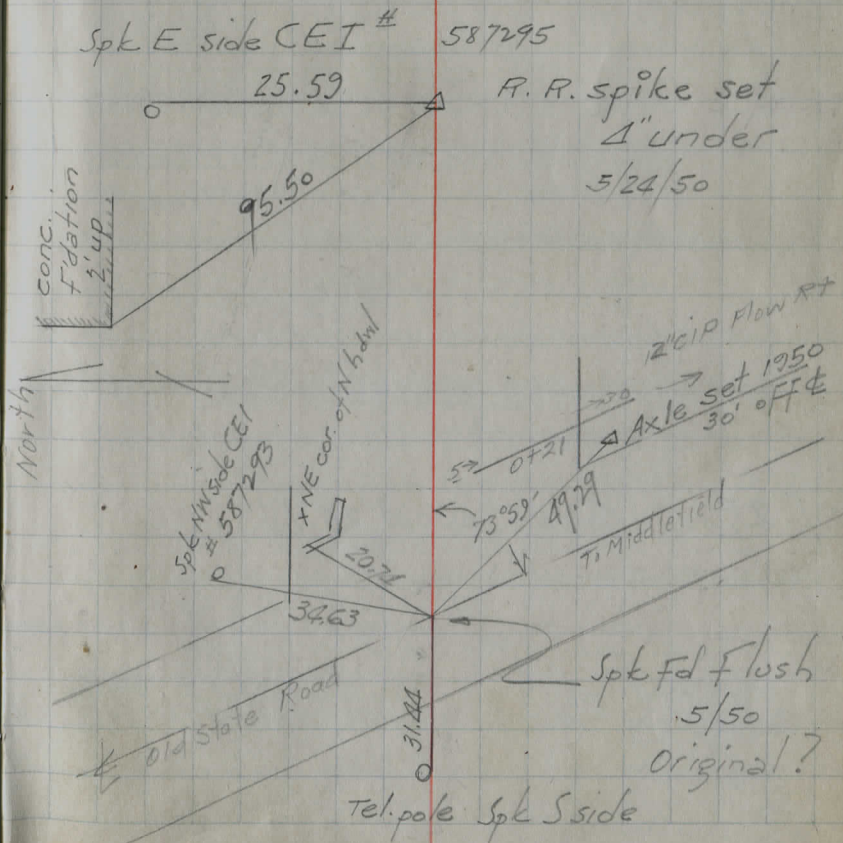
# Middlefield Twp.

~~11+44~~  
Probable cult. →

30' Δ I.P. 5+99

12' Cor 1P Flow Rt.

→ 5+90 →  
287 →



36+99 x Prop Line  
Crittenden

Hersberger

Prop Line 29+96  
Ridout

10' CIP Flow Lt

28+12  
12 6

Sta 28 on side stakes set 25' Lt.

Crittenden

24+49 x Prop Line x  
30'

Pin Set  
± 3' W of  
fence

(Not on P/L)

Prop line x 60+04  
 ←  $\frac{60+03}{7 \quad 15}$  12" Cor I.P. & C/P  
 Flow Lt.

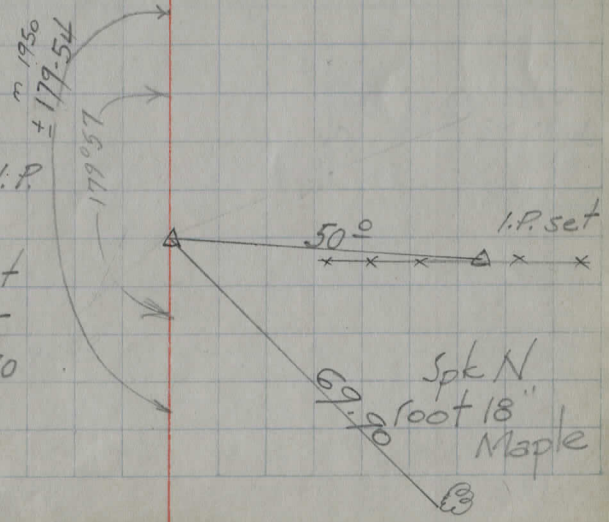
x Prop line 54+20

46+19 Prop line

x Prop line 45+13

Sta 37+00 Def Lt. 0°03' Pipe Set

Bent over I.P.  
 Fd reset  
 straight  
 7" under  
 5/24/50

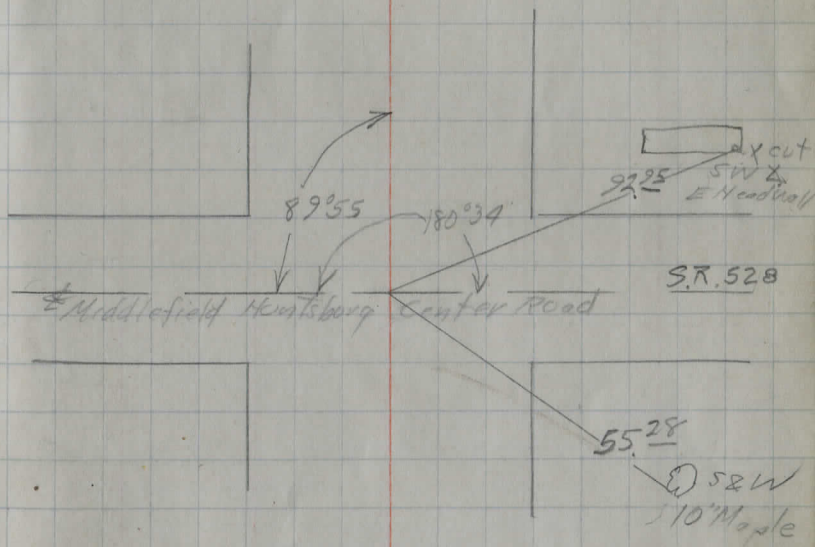


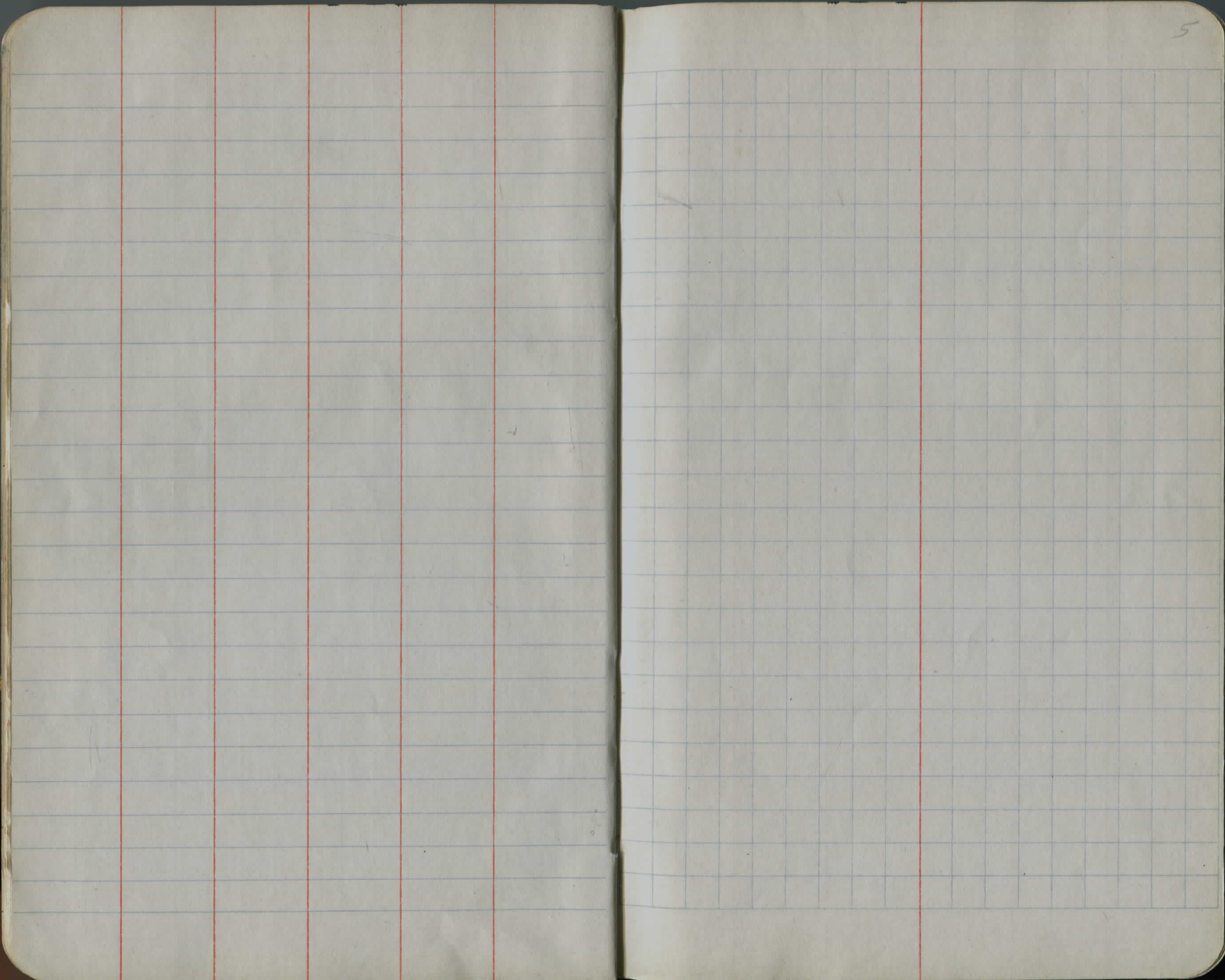
1.44 miles

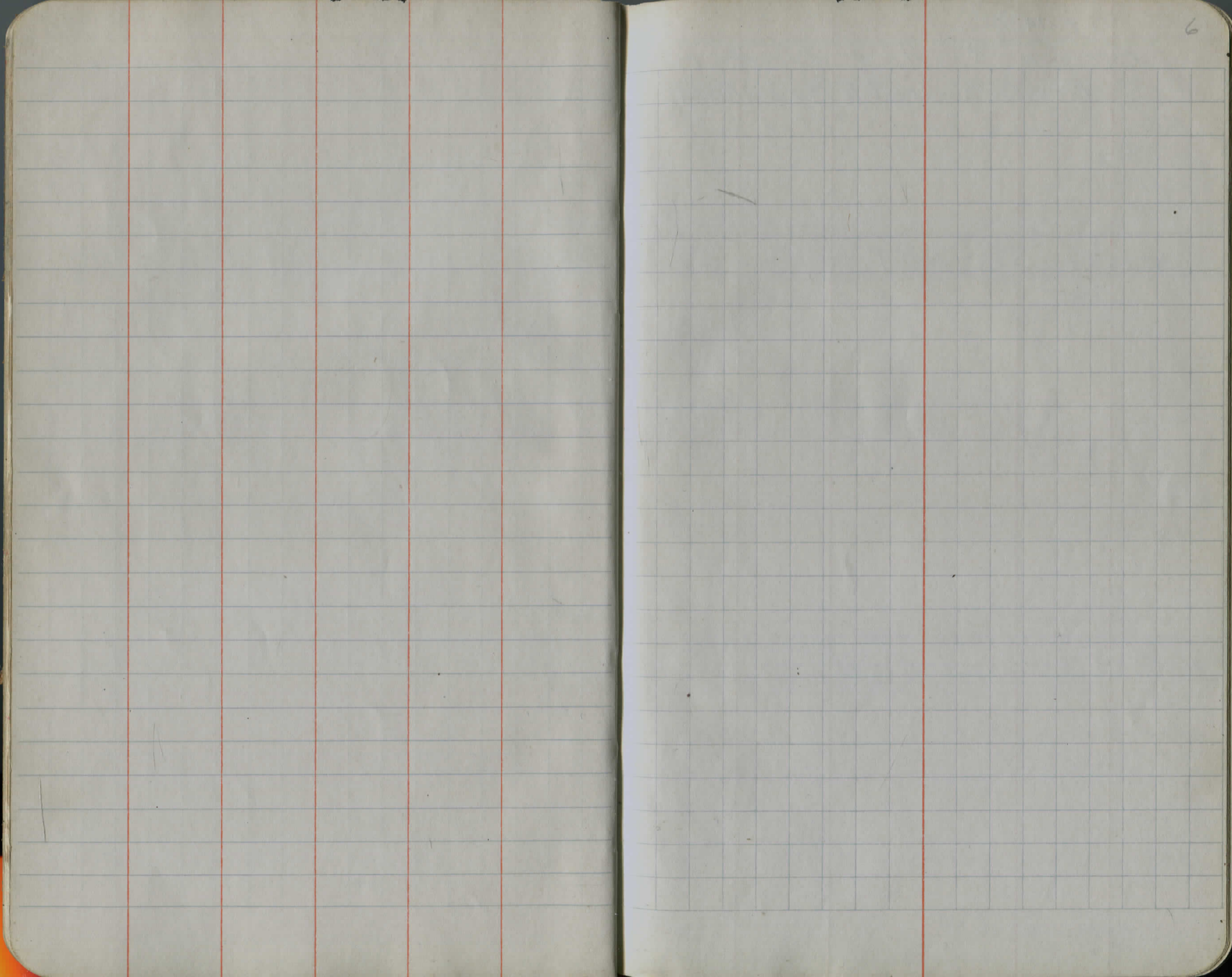
$$\begin{array}{r} 5280 \overline{) 7630.26} \\ \underline{5280} \\ 23502 \\ \underline{21120} \\ 23826 \end{array}$$

Note: Sta  $76+30^{26}$  = Sta  $67+83^{46}$  of  
Middlefield Huntsgburg Center Road.

Sta  $76+30^{26}$  End of Project Spike Set







T.H. 124

# Georgia Road & Location

Erans Cor. Road east to Parkman Road

Note: Sidestakes are set 25' Rt or South

Sta 3+00

POT

Pipe Set

Sta 0+00

Beginning of Imp

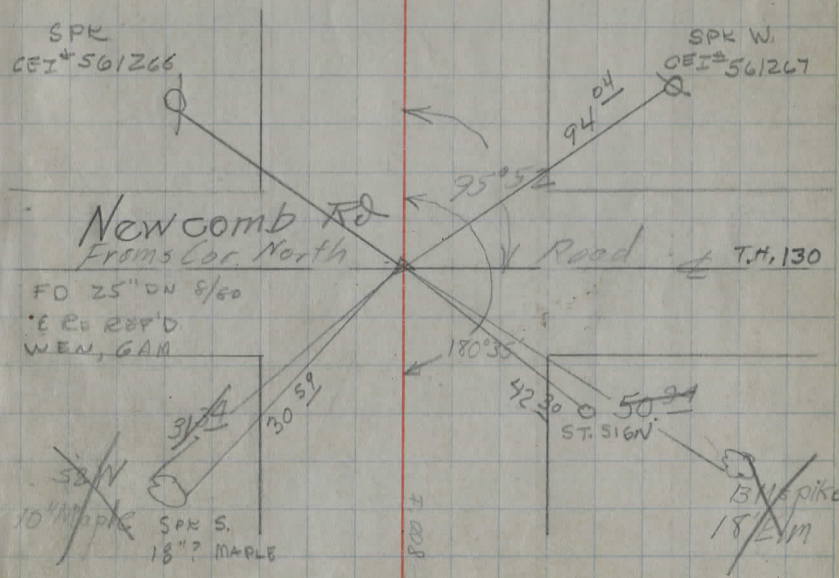
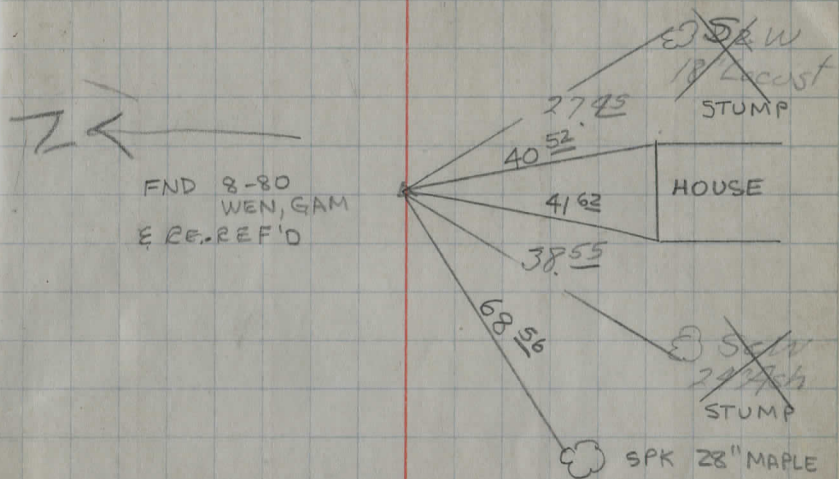
Pipe Set

6/12/24

# Middlefield Twp

Richey  
Pembrey  
Road

7



NEW REF SEE  
FB 130 PG 22  
79 PG 53

Prop Line 9+25

← 26' to next corner.

Prop. Line 7+50

Prop Line 4+19

M Miller

Prop line 3+37

N Geringerich

17+20 PropLine

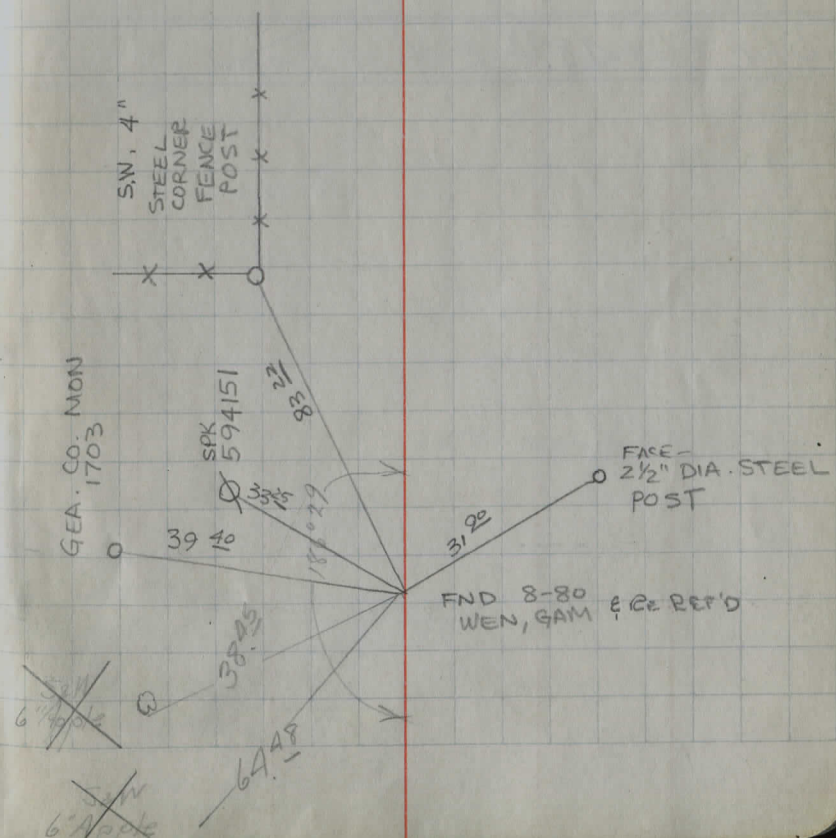
15+51 PropLine

Curve Data {

- $\Delta = 6^{\circ}29' \text{ RT}$
- $D = 3^{\circ}$
- $T = 108.17$
- $E = 3.1$
- $L = 216.11$
- $PC = 9+75.91$
- $PT = 11+92.02$

$10 = 13$   
 $11 = 2.24$

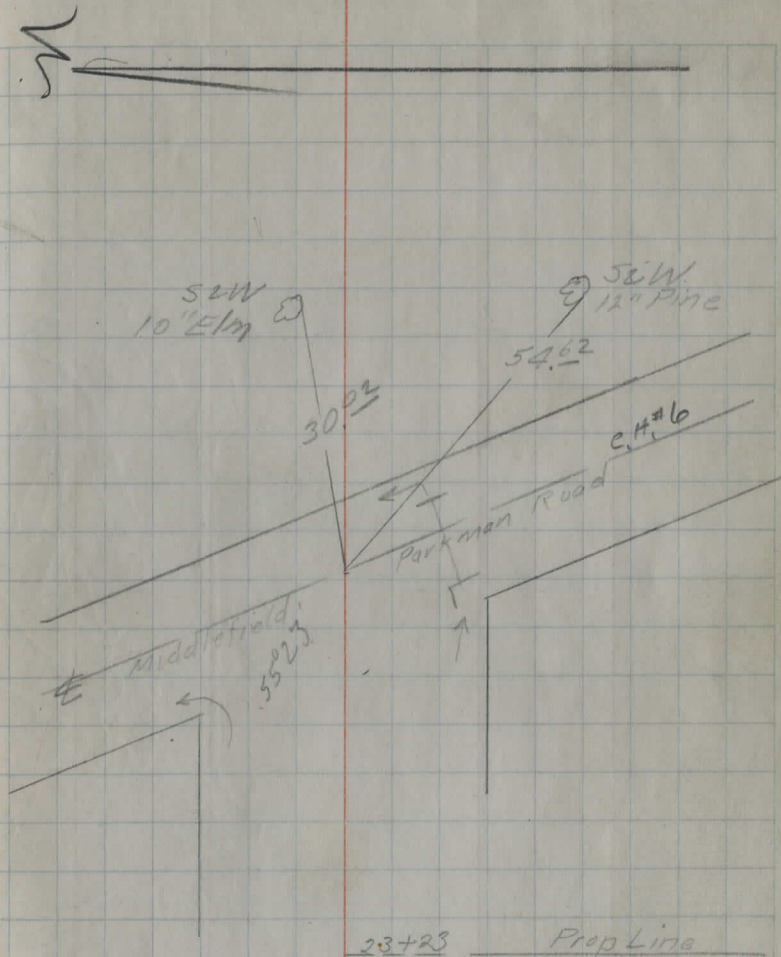
Sta 10+84.08 PI Def  $\Delta 6^{\circ}29'$  Pile Set



.502 miles  
 5280 | 2648.48  
 26400  
 8480

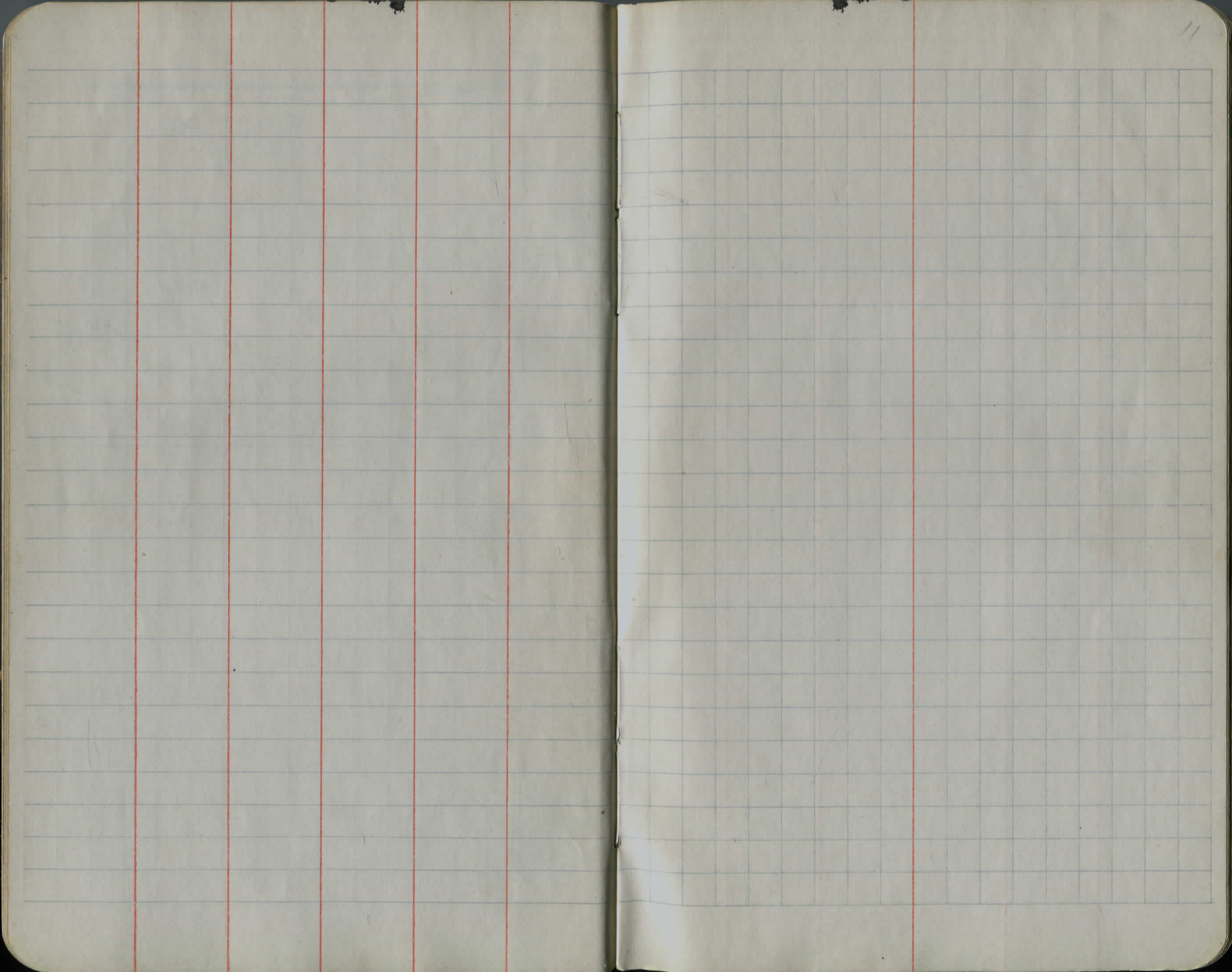
Sta 26+48.48 End of Imp.

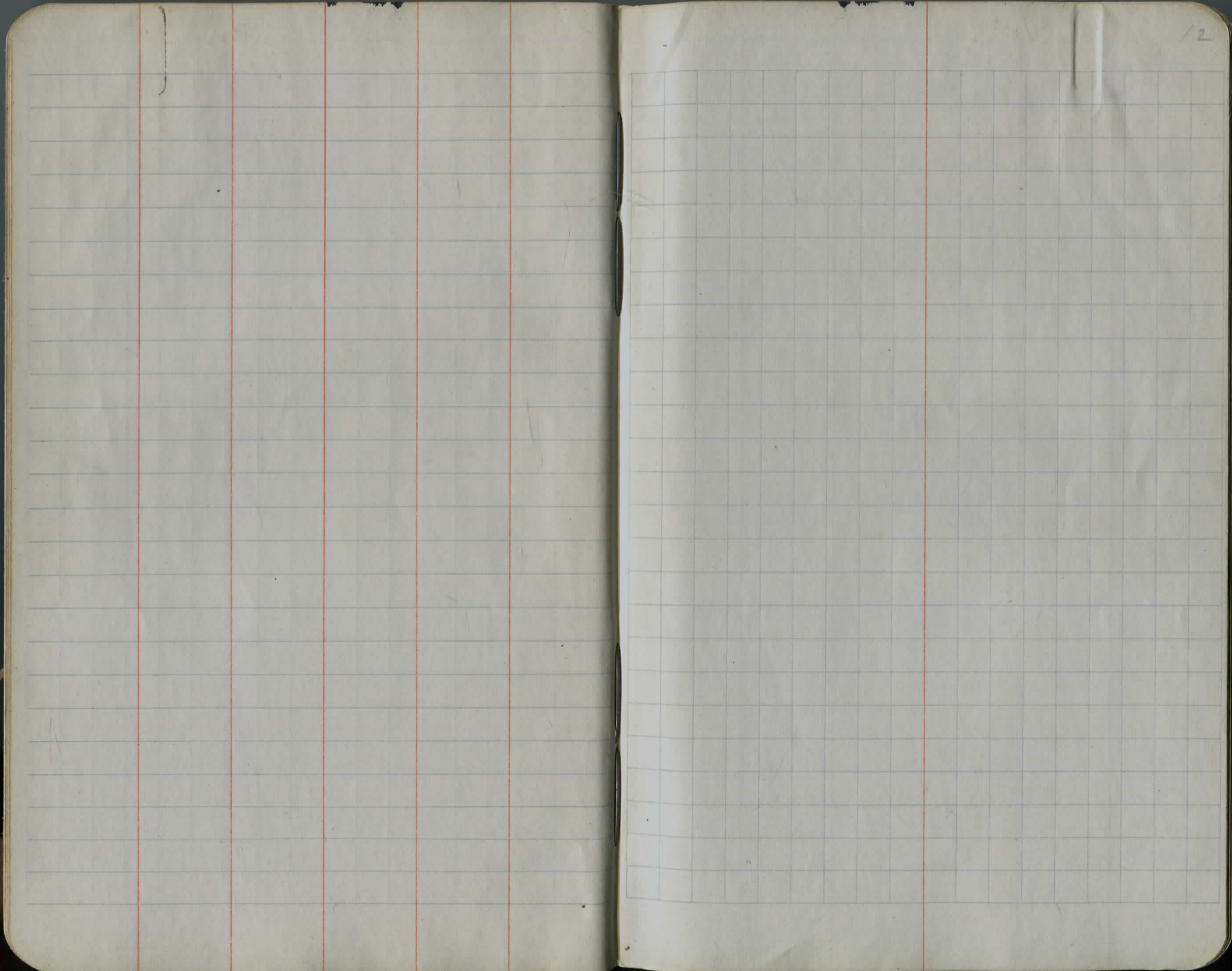
Spike  
 Set



2' Cur IP. Culv  
 Flow Lt. ←

30+00  
 85 115





TH. #311

Location County Line Road  
Huntsburg Windsor Twp. Line

Note: Sidestakes set 30' Lt. or West except  
as noted. Stakes set at Stations 2, 4, 6, 8, etc.  
except as noted

Restaked  
see Vol. #3  
141

Sta 0+00 Beginning of Imp. Pipe Set

9/12/34

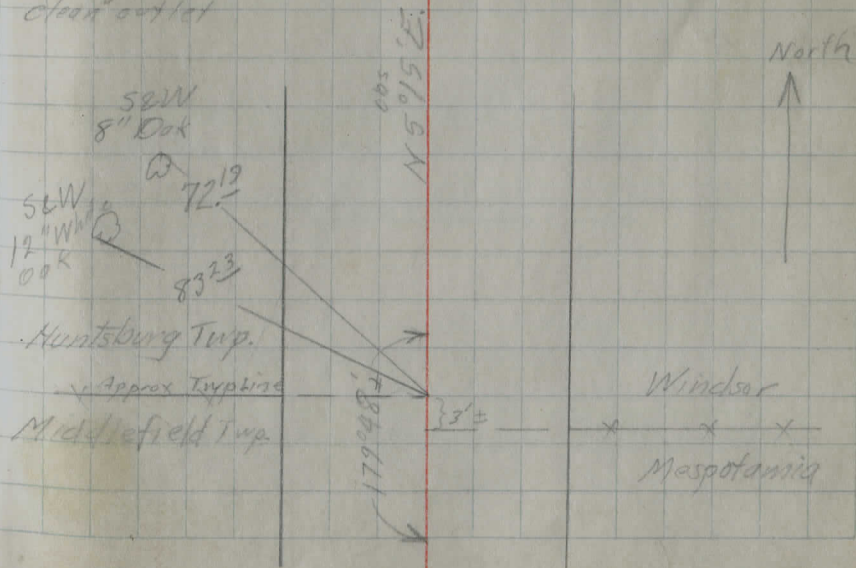
Rickey  
Bond  
Dietz

13

18" CIP in good condition 24' long  
Flow Rt. 8" E. 11" →

12" Conc. pipe good condition 16' long  
Flow Rt. 12" E. 11" →

Replace 1st Wood Box  
16' long Flow Rt. clean outlet →



Prob. Lot line  
x x 17+51

17+27 x x

5 1/2 x 3 Stone Box  
Culv. 19 1/2" long in good  
condition flow Rt | 16+75 | →

12+56 x

Sidestakes set 30' RT Sta { 36, 38, 40

NOTE: SEE FB 141 PC 60 FOR 1983 WORK BY J. P. RUSSELL

Sta. 26+52.88 POT Pipe Found

This point set in Dec. 1933 from references furnished by Ash & Shultz Co. Surveyor. Their point could not be found.

40+18

39+13

12" CIP good condition flow RT.

33+75 8 8

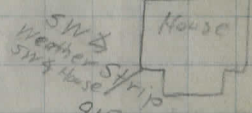
14" CIP 16' long good condition

29+30

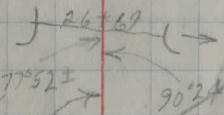
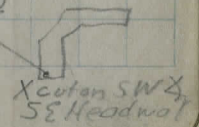
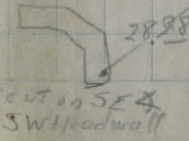
15" VSP encased Std. Headwalls 50' long

CH No. 14 To Barnes Corners

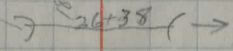
15" VSP encased Std. Conc. Headwalls



Cross Road



90° 24'



2890

10" CorIP 56+53 →  
 16' long  
 fair condition  
 8" fill  
 2x6x12 riser

10" CorIP in poor 50+75 →  
 condition flow Rt  
 16' long  
 6" fill

12" — — — — —  
 — x — x — 55+75  
 — x — x — 52+18 — x — x — 52+69

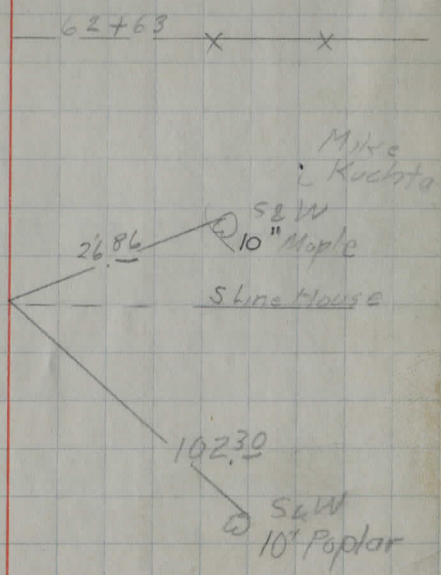
5' x 1 1/2'  
 Plank Bridge 43+03 →  
 16' long flow Rt.  
 poor condition  
 Timber walls

12" fill  
 18" VSP 16' long  
 good conditions  
 Flow RT

69+09 →

Sta 61+21.65 FOT Pipe set

Sidestakes 30' RT Sta {56  
 {58



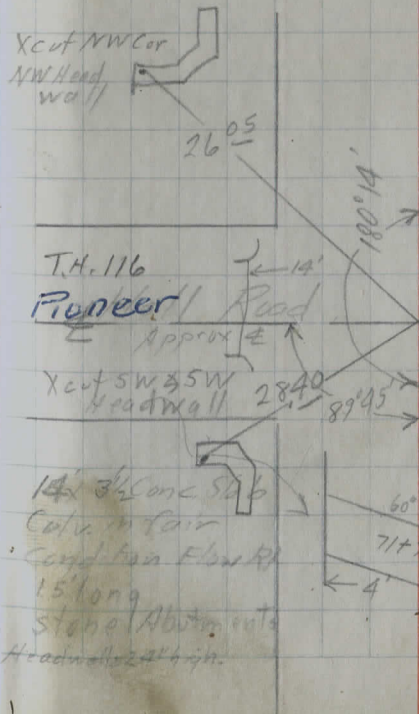
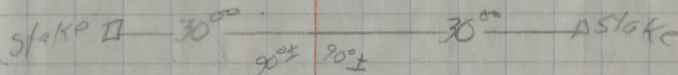
Sta 71+43<sup>65</sup>

POT.

pipe  
set

Sta 72+40<sup>28</sup> PI DEPT 0°14'

pipe  
set



spread culvert  
14' L x E  
12' Cor. I.P. 40' long  
std. concrete headwalls  
Flow South

6" F.I.P.  
18" Cor I.P. 103+77 →  
18' long Flw RT  
good condition

~~Replace~~  
1x1 Wood Box Culv. 95+10  
poor condition  
Flw RT 3' F.I.P.  
now 18" 12" C.I.P.

~~extend salvage 12~~  
12" C.I.P. / poor 88+21 →  
condition  
16' long Flw RT  
sectional  
now 20' 12" C.I.P.

~~x y~~ 87+72

Sta 81+50 culvert  
required  
unless drainage can  
be carried south  
drain south

77+23 Probe prop Line

5' E 11  
 Section of pipe  
 18' CIP fair condition  
 16' long flow RT  
 clean outlet.

X X 111+82

114+21 →

Sta 106+19.18

POT

Pipe  
Set

S&W  
8" Poplar

74.22

0.45  
N 5.00 E

S&W  
8" Poplar

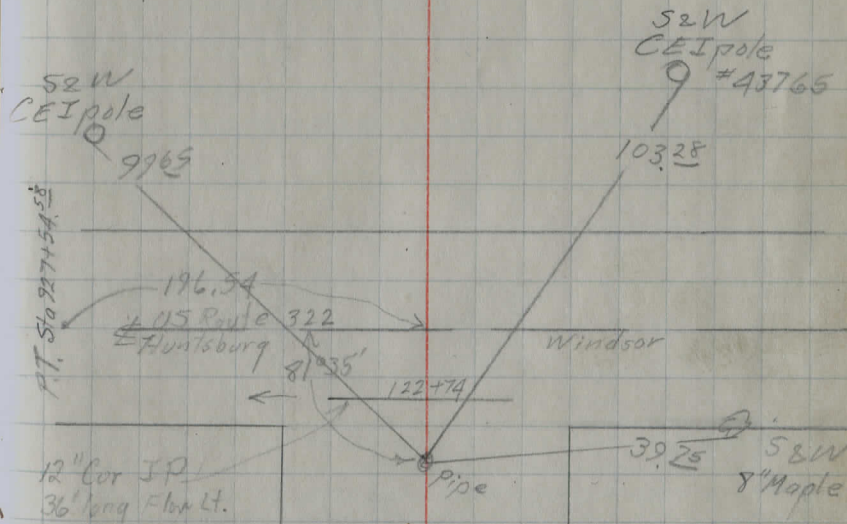
67.70

2.33

5280	12290
	1056
	1730
	1584
	1460

Sta 122+90 End of Imp @ Mayfield Rd

Sta 122+69.5 P.O.T. Pipe Set

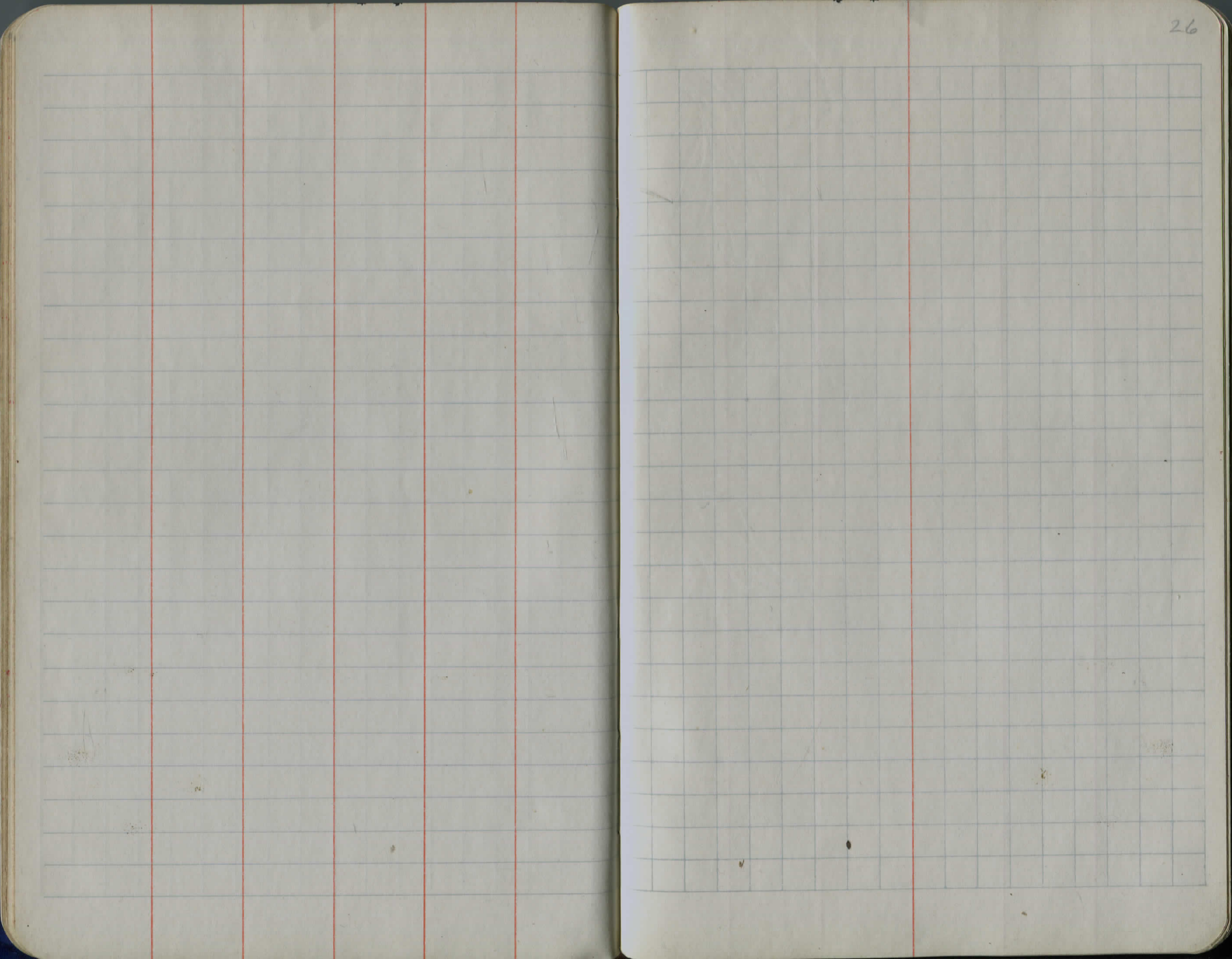




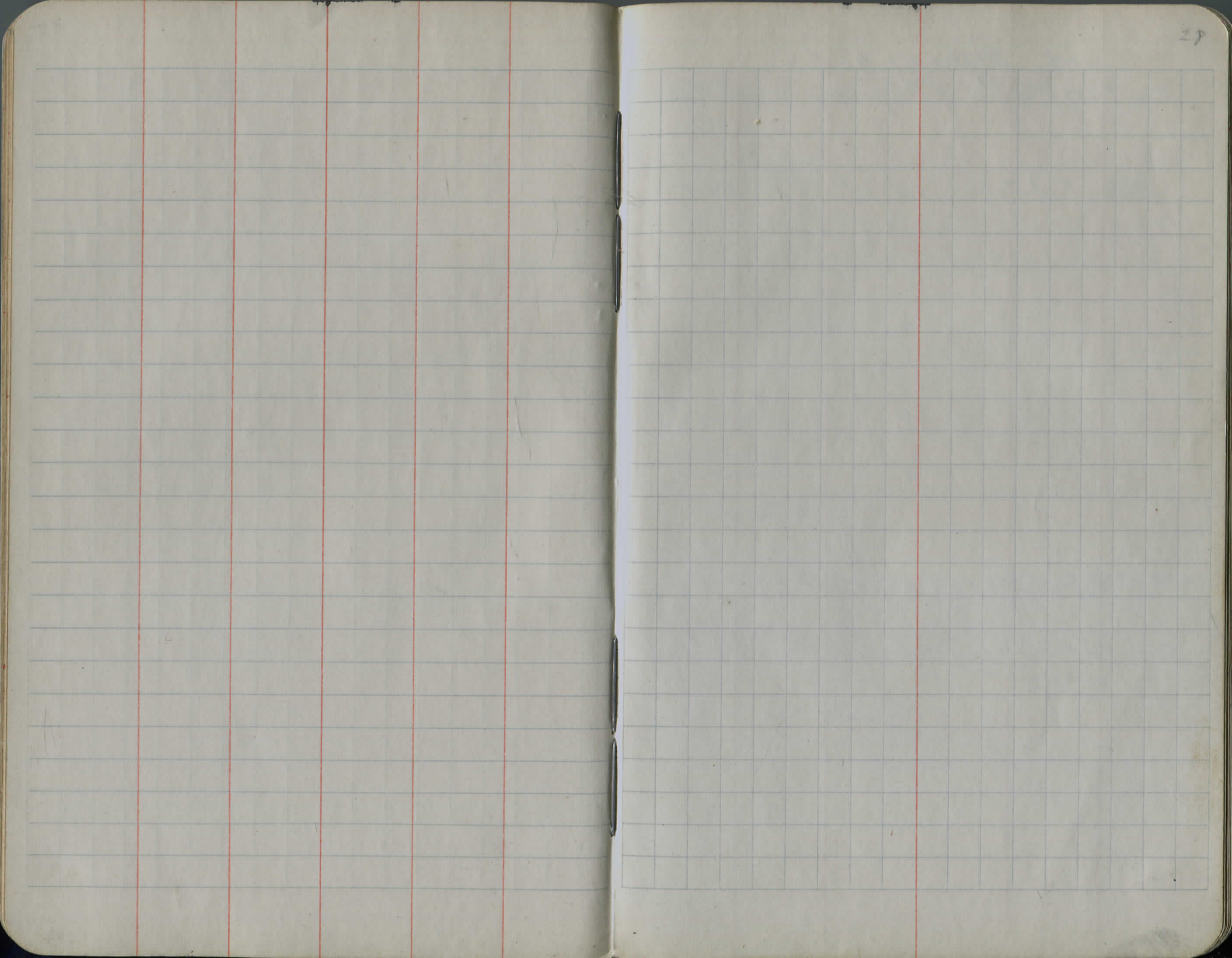












(Spencer st.)

4/22/31/

Richey  
Murditt  
Barton

# County Highway No 45

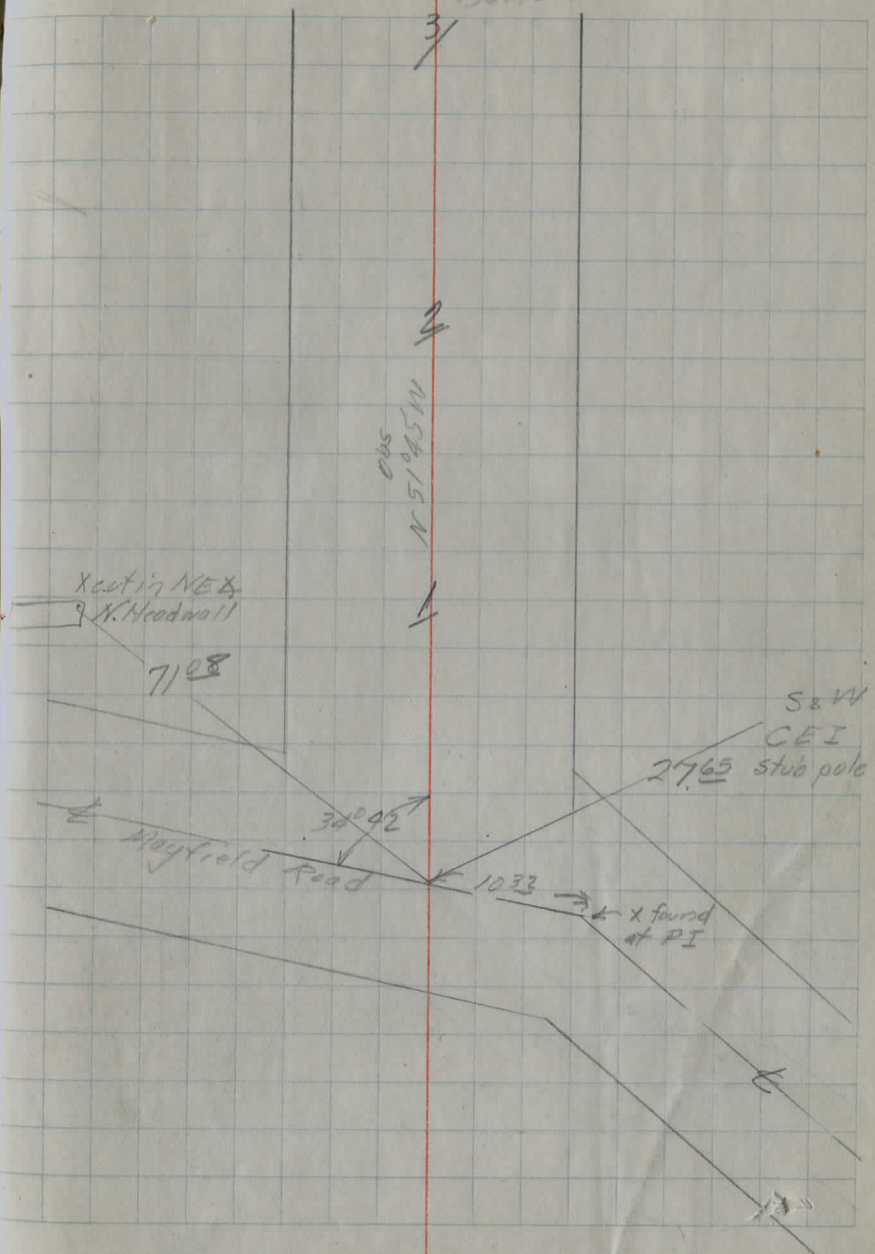
Pennfrets Corners to Spencer School House

Note: Sidestakes set 30' N or East

Sta 0+15 = Edge of Pt.

Sta 0+00

cut in  
concrete



8" V.S.P. in fair condition

8

7+72  
88

7

6

Drive 5+50

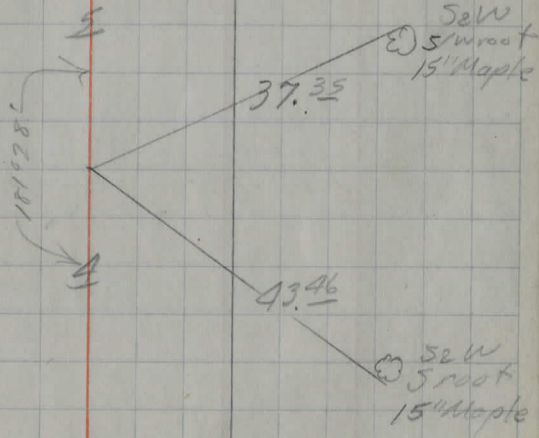
5

4

3

5/9 4+28.39 Det RT 1028'

Iron Set



20

13

13

4

10

8

7

Sta 15+05.52 Def Rt 12°39' P.I.P. set  
 Fd 5-13-52 10" under

L = 12°39'

D = 4°

T = 158.28

E = P.E

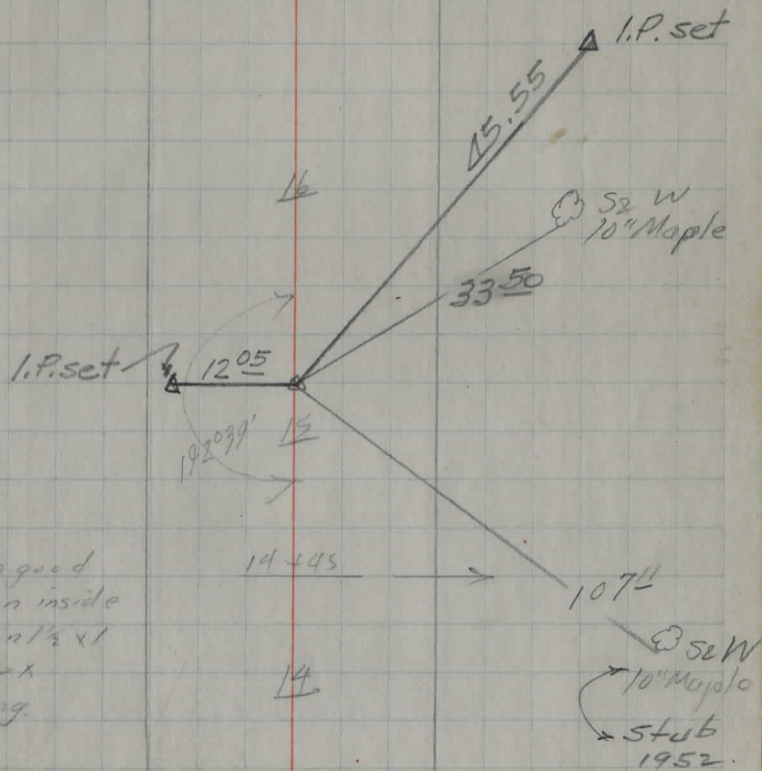
L = 316.25

PC = 13+46.74

PT = 16+62.99

14 - 2.26  
 14+50 - 5.73  
 15 - 8.50  
 15+50 - 7.78  
 16 - 2.22

8" CIP in good  
 condition inside  
 of brick on 1/2 x 1  
 Stone Box  
 20' long.



2x1 Stone Box  
 Culv. good condition  
 Conc. Slab & Curbs

23

$$\frac{22+75}{9 \quad 13} \rightarrow$$
23Drive 2140021261918

282726252423

333231

2 1/2 x 3/4 stone  
 Box Culv. Conc.  
 slab & curbs

$$\frac{30+20}{10 \quad 10}$$

→

302928

$$\frac{34+82}{0+15} \div \frac{5280}{3467} = .657 \text{ miles}$$

Sta 34+82 = Edge of Pkt. measured on curve

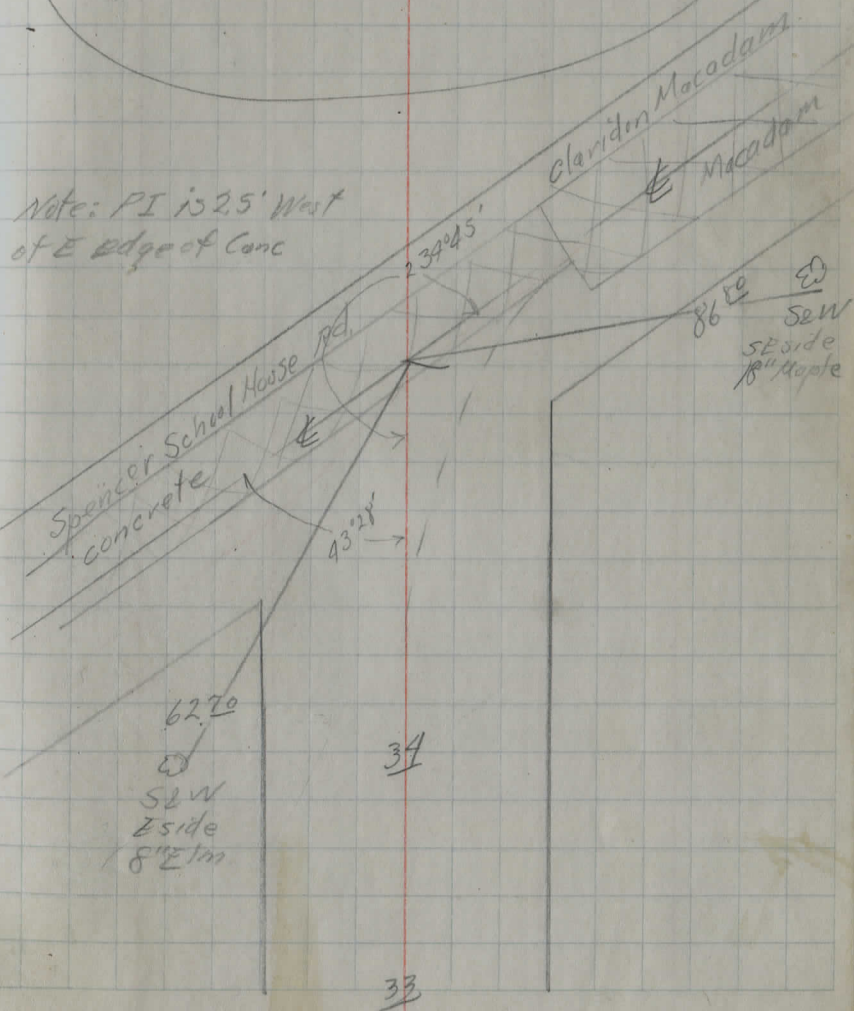
Sta 34+57.20 Def RT 54°45' Spike Set in Concrete

$\Delta = 54^{\circ}45'$   
 $D = 30'$   
 $I = 98.20$   
 $E = 241$   
 $L = 182.50$   
 $PC = 33+58.20$

34+10.15  
 34+51-2240

#5 Aquilla Rd 36

5-13-52  
 See ref Fd. Bk  
 # 10 pg 61



Note: PI is 25' West of E edge of Conc

Spencer School House Pkt  
concrete

Claridon Macadam  
Macadam

86.00  
SE side  
18" Apple

62.70  
SE side  
8" Elm

34

33



County Highway #45 Profile Levels

BM #1	306	114165		1138.59
0			4.1	
1			5.1	
2			2.3	
	11.99	1151.64	2.00	1139.65
3			7.6	
4			0.5	
	4.01	1154.72	0.93	1150.71
5			2.6	
6			6.5	
BM #2			4.19	1150.53
7			9.5	
	4.88	1148.97	10.63	11440.9
8			4.3	
9			3.0	
10			5.3	
11			7.6	
12			9.0	
BM #3	4.01	11430.1	9.97	1139.00
13			3.7	
14			4.6	
15			4.2	
16			3.5	
17			2.8	

3/6/30

-38

X cut S side E abut. of Bridge 150' SE of Sta 0+00

Spike W. root 18" Maple 35' RT & Sta 6+40

Spike W. root 24" Maple 22' RT & Sta 12+95

	1143.01			
18		2.3		
	7.52	1148.37	2.16	1140.85
19		70		
20		59		
21		4.7		
BA#4		3.66	1144.71	
22		3.3		
23		2.3		
24		0.9		
	863	1156.50	0.50	1147.37
25		68		
26		4.9		
27		40		
28		3.8		
29		40	52.5	
	504	1156.57	4.77	1151.53
BA#5		31.6	1153.41	
30		4.1	52.5	
31		2.4	59.2	
	1225	1168.78	0.04	1156.53
32		11.0	57.8	
33		6.7		
BA#6		1.59	1167.19	1167.20
34		3.1	45.7	
34+57		-0.2	69.0	

Spike W root 18" Maple 30' RT & Sta 21+30

Spike E root 18" Elm 22' LT & Sta 28+70

Spike W root 10" Maple 30' LT & Sta 33+60

Dec 1933

Drainage Ditch Location  
Spencer School House Cut Off (CH No 45)  
Southeasterly to Mayfield Road.

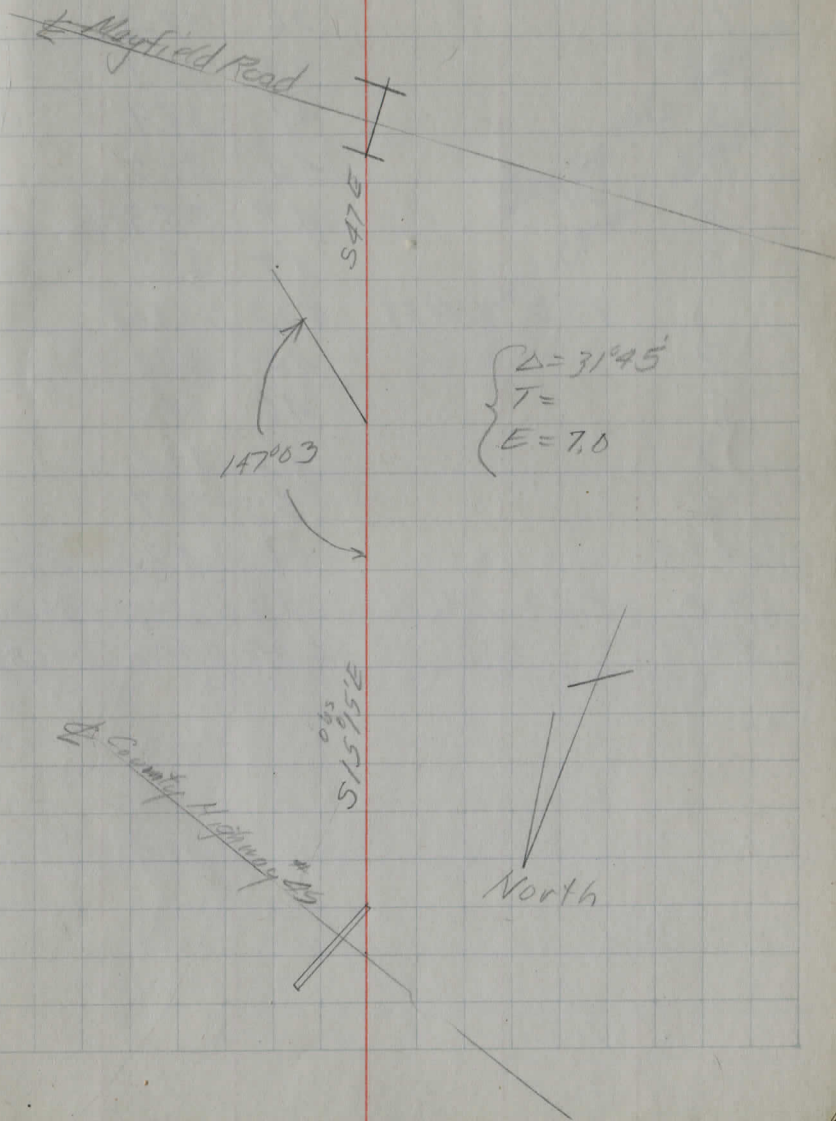
Note Sidestakes are set 6' Lt or East

Sta 10+58 End of Imp. = N end culvert  
600' West of Dunfords corners

Sta 5+50 Def Lt 32°57'

See pg. 41  
for ELEV +715

Sta 0+00 Beginning of Imp. =  
N end of culvert Sta 14+45 on CH No 45



Levels on Drainage Ditch. on

BM#3 3.98 1142.98 1139.00

130

0+00 62 36.78

1 36 39.4

2 39 39.1

3 41 38.9

4 40 39.0

5 47 38.3

6 57 37.3

153 1140.22 427 1138.69

7 40 36.2

8 46 35.6

9 52 35.8

10 55 34.7

10+58 81 32.1

BM 5.22 1141.51 393 1136.29

BM#1 290 1138.61 1138.59

CH#45 from culvert at sta 14+45 41  
(21"?)

Spike Wood 15' Maple 22' RT ± Sta 12+25 of  
County Highway #45

Flow of culvert

See Pg 46 herein  
for const. stakes

Flow of culvert

NN & N Headwall of culvert 600' W of Pomfret S.  
Xcut SE of Cuyahoga River Bridge

X Sections County Highway No. 45

BM#1	546	1144.05		1138.59
0+00		6.6	37.5	
1		7.6	36.5	
2		4.6	39.5	
3	1237	1155.59	0.83	1143.22
		11.6	44.0	
3+50		8.0	47.6	
4		4.5	47.6	
4+50		2.9	52.7	
5		3.4	52.2	
6		7.6	48.0	
BM#2	0.52	1151.05	508	1150.51 1150.53
7		6.0	45.1	
8		6.6	44.5	
9		5.1	46.0	

X cut in S side E. Abut of Bridge. 150' SE of Sta 0+00

	-23	16-10	10	12	17-22	26-				
	74	84	82	79	84	70				
	-23	19	11	9	10	14	24-			
	30	61	57	50	54	65	20			
	-22	16	7	8	11	20	30			
	87	128	119	113	126	89	95			
	30	22	16	8	6	9	11	20	30	
	36	40	48	92	83	82	81	73	46	
	30	22	11	8	6	10	12	17	24	30
	19	20	39	52	47	47	56	40	30	26
	30	30	13	9	7	9	11	16	23-	
	25	21	40	33	33	41	23	10		
	-14	9	7	9	11	14	23	30		
	25	44	39	36	42	29	17	1.9		
	25	12	10	7	8	10	24	30		
	74	79	87	79	77	89	34	30		
Spike W root 18" Maple	30	10	7	9	11	21	25			
	97	69	62	62	67	69	56			
	30	13-12	10	6	8	21-				
	83	77	70	69	73	69				
	30	15	13	9	7	9	13	25-		
	62	60	67	55	54	62	54	73		

35' ft of Sta 6+40

115105

10			7.4	437		
11			9.7	414		
	2.24	1142.79	10.50	1140.55		
12			3.0	398		
BM #3	3.76	1142.76	3.76	1139.03	1139.00	
13			4.0	388		
14			4.6	382		
15			4.0	38.8		
16			3.7	391		
	6.96	1146.81	2.91	1139.85		
17			6.9	39.9		
18			6.3	40.5		
19			5.5	41.3		
20			4.6	42.2		
21			3.6	43.2		
BM #4	2.12	1146.83	2.12	1144.69	1144.71	
22			2.3	44.5		

$$\begin{array}{r} -24 \quad 13 \quad 11 \quad 8 \\ 65 \quad 76 \quad 86 \quad 76 \end{array} \quad \begin{array}{r} 8 \quad 10 \quad 14 \quad 19 \\ 78 \quad 87 \quad 71 \quad 52 \end{array}$$

$$\begin{array}{r} -14 \quad 11 \quad 8 \\ 143 \quad 111 \quad 100 \end{array} \quad \begin{array}{r} 9 \quad 11 \quad 15 \\ 102 \quad 110 \quad 106 \end{array}$$

$$\begin{array}{r} -11 \quad 11 \quad 8 \\ 39 \quad 42 \quad 33 \end{array} \quad \begin{array}{r} 10 \quad 13 \quad 16 \quad 25 \\ 31 \quad 41 \quad 35 \quad 29 \end{array}$$

Spike Wood 21" Maple 28' At 4 Sta 12+95

$$\begin{array}{r} -13 \quad 10 \quad 7 \\ 48 \quad 53 \quad 41 \end{array} \quad \begin{array}{r} 11 \quad 15 \quad 17 \\ 42 \quad 54 \quad 47 \end{array}$$

$$\begin{array}{r} 30 \quad 12 \quad 10 \quad 8 \\ 45 \quad 49 \quad 50 \quad 48 \end{array} \quad \begin{array}{r} 12 \quad 14 \quad 16 \quad 30 \\ 48 \quad 51 \quad 46 \quad 48 \end{array}$$

$$\begin{array}{r} -13 \quad 9 \quad 7 \\ 45 \quad 49 \quad 40 \end{array} \quad \begin{array}{r} 9 \quad 10 \quad 13 \quad 23 \\ 43 \quad 51 \quad 42 \quad 47 \end{array}$$

$$\begin{array}{r} 30 \quad 16 \quad 12 \quad 10 \\ 34 \quad 42 \quad 45 \quad 35 \end{array} \quad \begin{array}{r} 6 \quad 8 \quad 11 \\ 32 \quad 46 \quad 37 \end{array}$$

$$\begin{array}{r} 30 \quad 15 \quad 12 \quad 9 \\ 66 \quad 74 \quad 82 \quad 72 \end{array} \quad \begin{array}{r} 6 \quad 9 \quad 12 \\ 72 \quad 80 \quad 75 \end{array}$$

$$\begin{array}{r} 30 \quad 14 \quad 11 \quad 9 \\ 53 \quad 68 \quad 77 \quad 66 \end{array} \quad \begin{array}{r} 7 \quad 9 \quad 12 \\ 68 \quad 75 \quad 66 \end{array}$$

$$\begin{array}{r} 30 \quad 13 \quad 11 \quad 7 \\ 47 \quad 60 \quad 71 \quad 57 \end{array} \quad \begin{array}{r} 8 \quad 11 \quad 14 \\ 60 \quad 68 \quad 80 \end{array}$$

$$\begin{array}{r} 30 \quad 12 \quad 2 \quad 6 \\ 41 \quad 50 \quad 59 \quad 46 \end{array} \quad \begin{array}{r} 9 \quad 11 \quad 13 \quad 18 \quad 30 \\ 51 \quad 61 \quad 50 \quad 48 \quad 42 \end{array}$$

$$\begin{array}{r} 30 \quad 12 \quad 9 \quad 7 \\ 26 \quad 40 \quad 49 \quad 38 \end{array} \quad \begin{array}{r} 10 \quad 13 \quad 16 \quad 30 \\ 38 \quad 47 \quad 41 \quad 37 \end{array}$$

Spike Wood 18" Maple 30' At 4 Sta 21+30

$$\begin{array}{r} 30 \quad 14 \quad 11 \quad 6 \\ 12 \quad 29 \quad 36 \quad 25 \end{array} \quad \begin{array}{r} 10 \quad 12 \quad 14 \quad 21 \\ 27 \quad 32 \quad 25 \quad 38 \end{array}$$

1146.83

	9.00	115.517	0.66	1146.17	
23			9.2	46.0	
24			8.3	46.9	
25			6.5	48.7	
26			4.0	51.2	
27			3.3	51.9	
28			2.6	52.6	
	4.87	115.714	2.90	115.227	
BM#5			3.72	115.342	115.341
29			4.8	52.3	
3					
30			4.8	52.3	
31			3.2	54.0	
	116.4	116.718	1.60	115.554	
32			8.6	58.6	
33			4.5	62.7	
	8.50	117.218	3.50	116.368	

44

$$\begin{array}{r} -14 \\ 102 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 95 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 103 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ 95 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 99 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 101 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ 101 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ 106 \\ \hline \end{array}$$

$$\begin{array}{r} -23 \\ 72 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 86 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ 89 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ 85 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 84 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 93 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ 87 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 65 \\ \hline \end{array} \quad \begin{array}{r} 4-3 \\ 76 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 66 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ 62 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 65 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 70 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ 63 \\ \hline \end{array} \quad \begin{array}{r} 22 \\ 60 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 26 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 44 \\ \hline \end{array} \quad \begin{array}{r} 6-5 \\ 32 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ 41 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ 38 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 44 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ 51 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ 45 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 22 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 34 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ 39 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ 31 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 38 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ 39 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 20 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ 30 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 40 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 27 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 27 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ 40 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 37 \\ \hline \end{array}$$

Spike Erect 18' Elm 22' Lt @ Sta 28+70

$$\begin{array}{r} 30 \\ 40 \\ \hline \end{array} \quad \begin{array}{r} 20 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ 62 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 55 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 61 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 52 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 59 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 56 \\ \hline \end{array}$$

$$\begin{array}{r} -11 \\ 67 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 51 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 50 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 62 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ 70 \\ \hline \end{array}$$

$$\begin{array}{r} -12 \\ 38 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 40 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 35 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 37 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ 34 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ 65 \\ \hline \end{array}$$

$$\begin{array}{r} -26 \\ 78 \\ \hline \end{array} \quad \begin{array}{r} 78 \\ 68 \\ \hline \end{array} \quad \begin{array}{r} 11-10 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 88 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ 82 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 98 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ 85 \\ \hline \end{array} \quad \begin{array}{r} 24 \\ 59 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ 57 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 20 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ 37 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ 55 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ 46 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ 49 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ 52 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ 41 \\ \hline \end{array} \quad \begin{array}{r} 30 \\ 32 \\ \hline \end{array}$$

117218

34

7.0

65.2

34+57

38

684

84\*6

5.00

1167.18

1167.20

5.00

1171.18

129

1163.97

850

1182.68

8.13

5554

—	$\frac{23}{50}$	$\frac{14}{69}$	$\frac{10}{77}$	$\frac{7}{74}$	$\frac{8}{82}$	$\frac{11}{67}$	$\frac{30}{57}$
---	-----------------	-----------------	-----------------	----------------	----------------	-----------------	-----------------

$\frac{100}{65}$

$\frac{100}{0.9}$

Spike Wroot 10" Maple 30' Lt & Sta 33+60

Hub Stakes For Ditch Spencer

BM #3	423	1143.23			1139.00
Flow 0+00			6.3	36.7	Grades
0			4.58	38.65	35.00
1			3.74	39.49	34.72
2			4.20	39.03	34.43
3			4.57	38.66	34.15
4			4.28	38.95	33.86
<del>5</del>	0.66	1140.11	3.78	39.45	33.8
5			1.87	38.24	33.58
6			2.87	37.24	33.29
7			3.85	36.26	33.01
8			4.72	35.39	32.72
9			5.29	34.82	32.44
10			5.54	34.57	32.15
10 + 58 BM			3.83	36.28	1136.29
Flow 10+58			8.1	32.0	
100' south			8.9		

Sched Catalt CH No 45 from Sta. 14+45

Cuts from hub

Cut 3.65
4.77
4.60
4.51
5.09
4.66
3.95
3.25
2.67
2.38
2.42

See pg 41 herein  
for surface elevations

12" tile from Sta 14+45  
(Spencer St #45) stn. easterly  
to Mayfld Rd

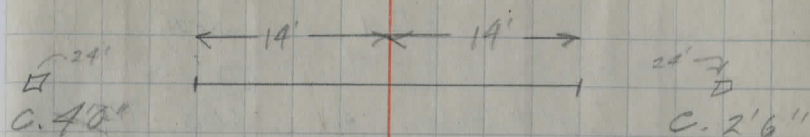
Grades for culvert Sta 14+54

BM #3	4.83	43.83	1139.50
← Road		5.1	38.7
Grade R		7.83	1136.00
Stake R		7.66	5.16 C2.5
Grade L		8.33	1135.50
Stake L		8.50	4.50 C40
Present Flow		6.7	
Channel 100' R/L		7.4	6.4

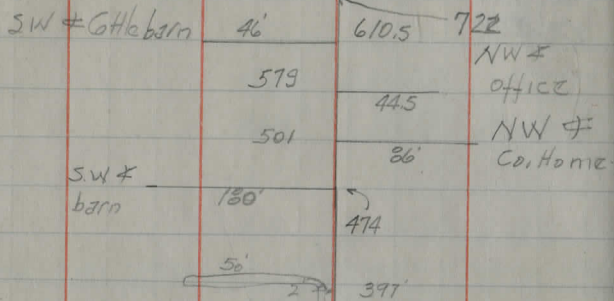
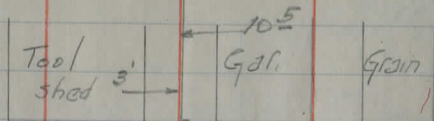
4/17/35

47

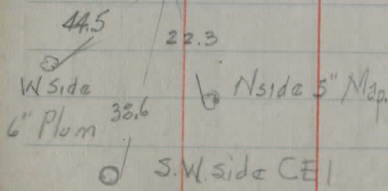
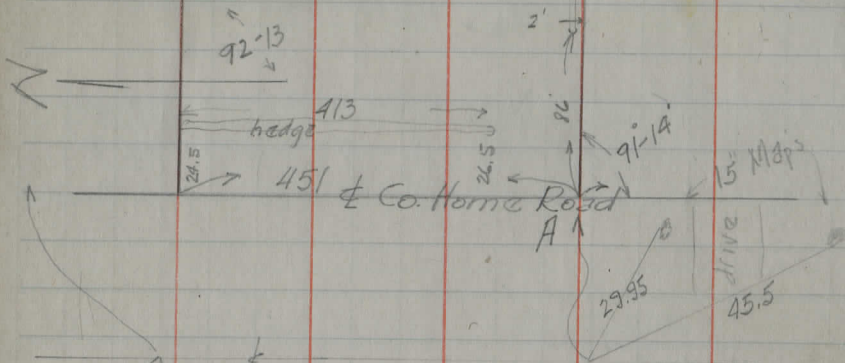
County Highway #45



See page 52

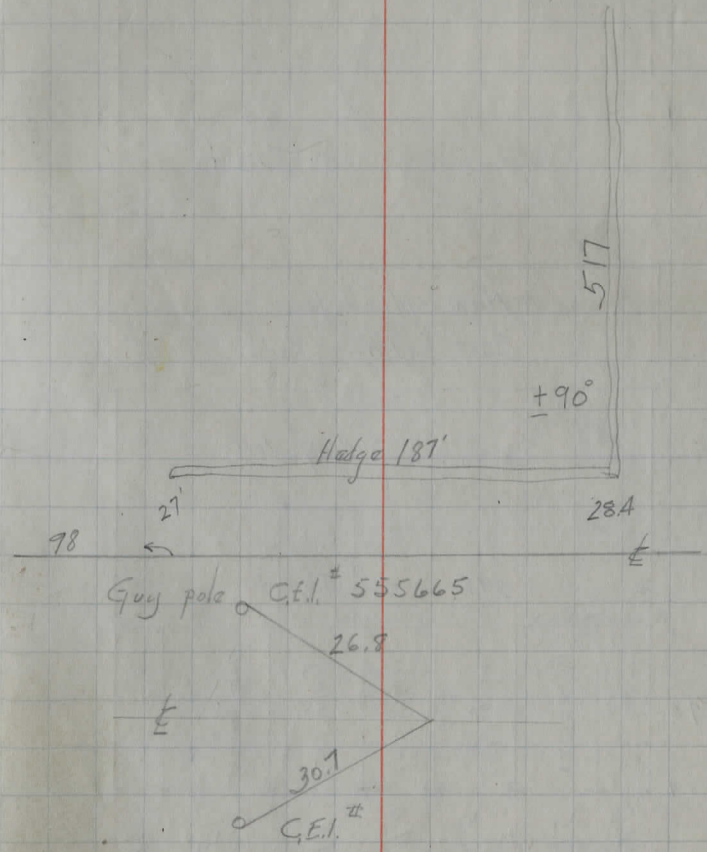


North P.L. →

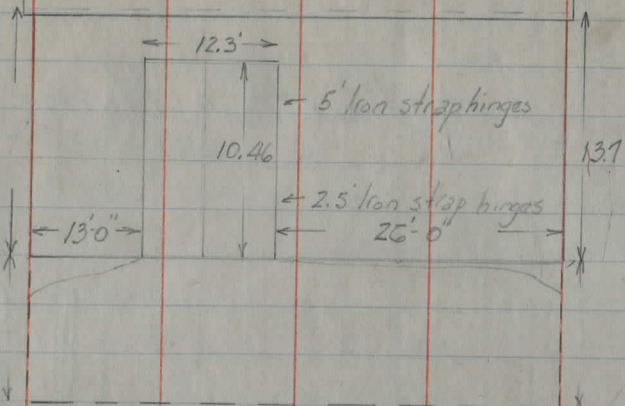


2/29/40 Pomeroy Richards clause 18

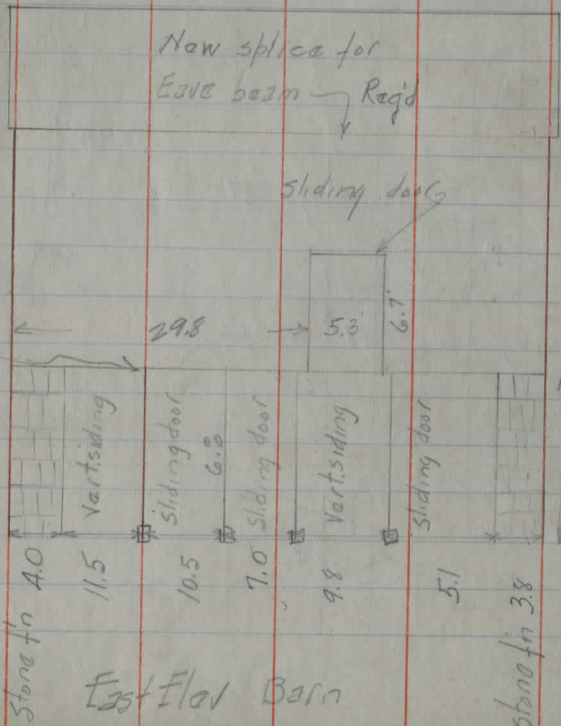
# Location Co. Home



12" Eave sheathing  
1' over hang all around



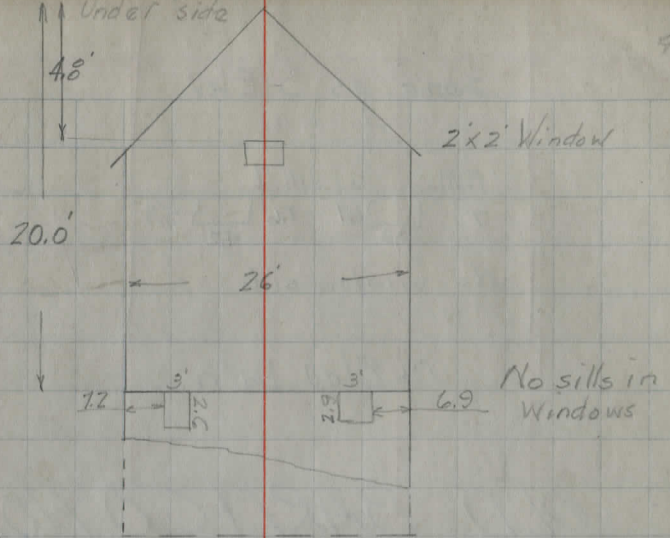
West Elevation Barn



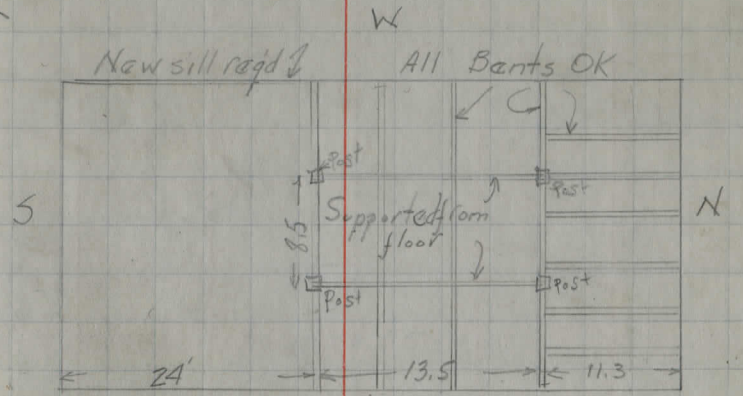
East Elevation Barn

Sliding door bearings can be salvaged

PLATT OLD BARN  
CO. HOME



South Elevation Barn



Plan Barn

Relay all of S & W foundation  
" 6" " N " "  
4 new supports for E sill needed  
6"x6"x6.8'

Double Flooring - poor.  
Esides bulge out in center

same as S. Elev.

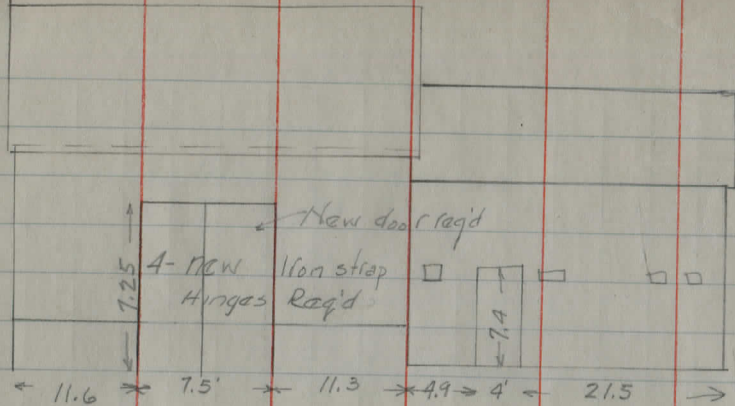
Bottom of sill ↓

7'  $\frac{1.7}{42}$  16'  $\frac{5.8}{42}$

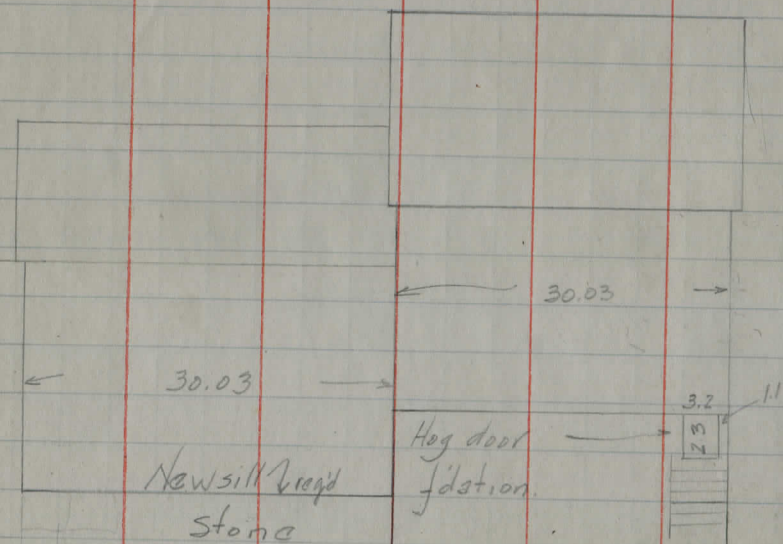
No window sills

N Elev Barn

OLD BARTCO HOME

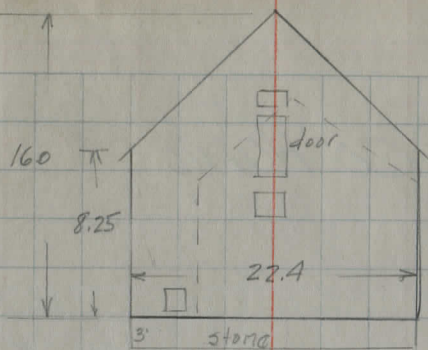


West Elev Pig Pen & C. House

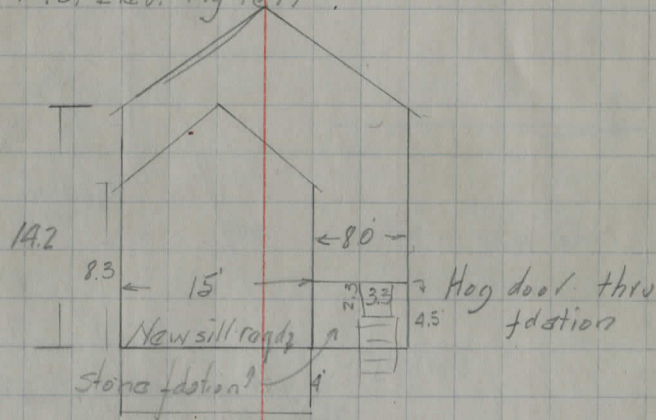


East Elev.

PIG PEN & CHICKEN HOUSE  
CO HOME



North Elev. Pig Pen



South Elev

Relay all f'dation except West.

2 partitions taken out to lay floor in pig pen



BM 0.51 122.20 121.69

6.33

T.P. 0.60 118.63 4.17 118.03

Note. Transit set at point C. All angles turned from point "B" to the left.

Angle	Distance	Rod		
		25'E	E	75'E
0-0'	11'			
32-04	193'			
54-25	213			
59-01	172			
63-32	186			
59-15	5'			
121-05	32'	6.5	5.7	8.1
143-17	165	6.4	6.0	7.8
147-15	186	8.2	7.6	9.6
148-31	267	8.9	8.5	9.8
149-12	286			
150-07	425	10.4	9.8	
150-36	700	14.5	14.0	
150-30	618	13.3	13.2	
150-15	523	9.6	9.6	

Fence & proposed ditch location

= BM #2 Page 74

F.L. 3" Farm tile inlet

Co. Home  
See preceds pg.

NE \* Garden

NW " "

SW " "

Angle in S. line garden

Inlet 3" Farm tile

SE \* Garden

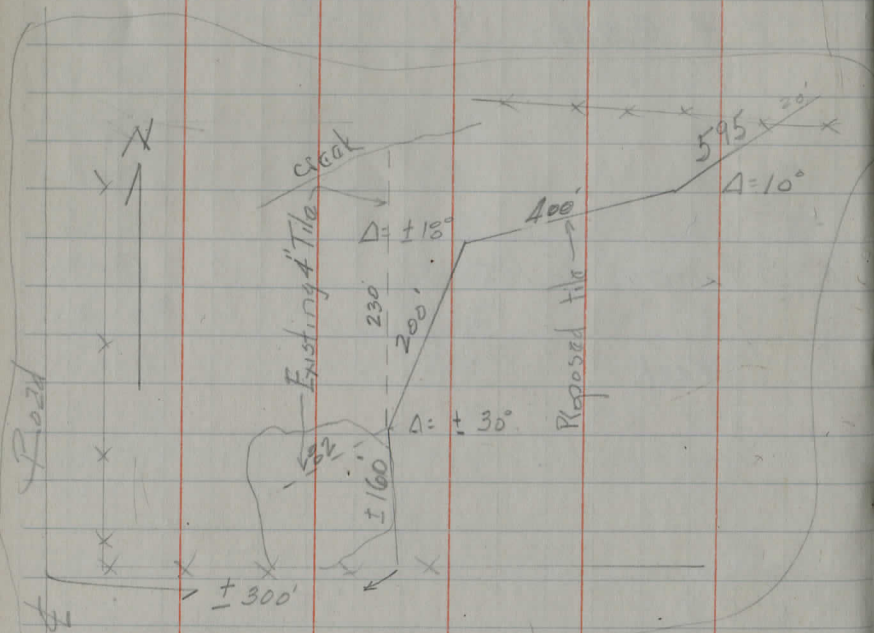
S Fence 10 AE

Creek

# So. fence line

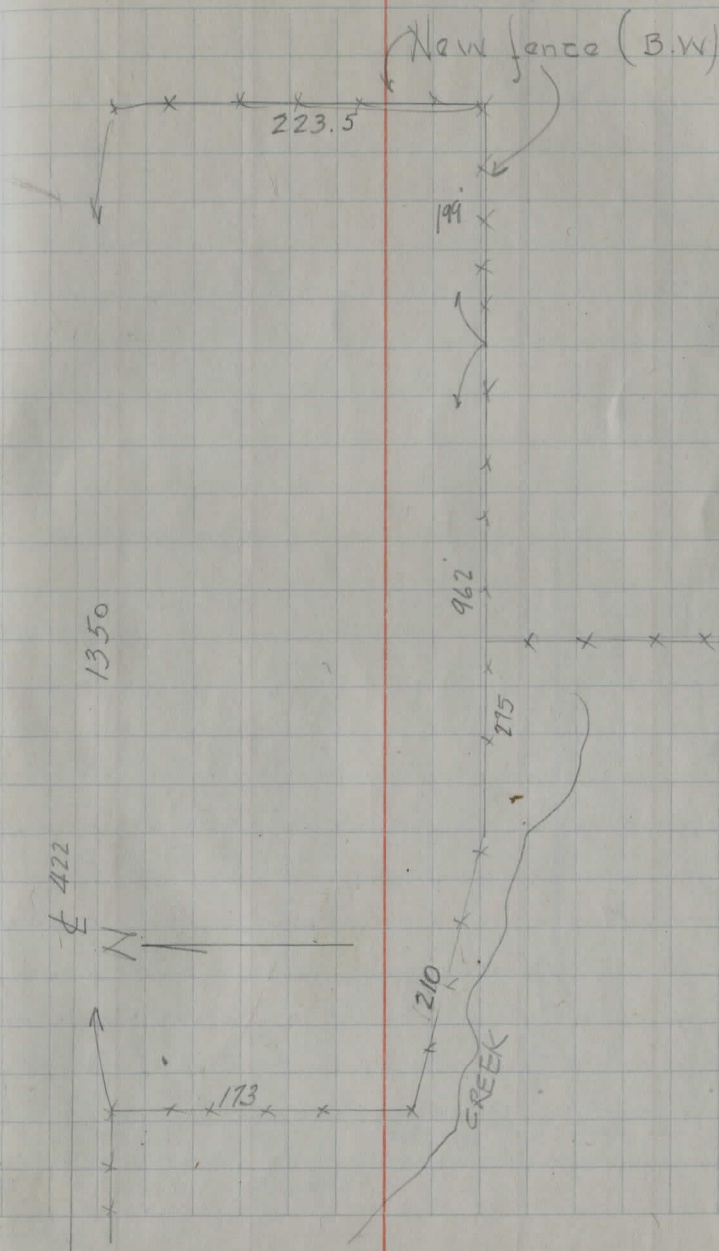
Pope

Co. maintains from flats halfway to Road & from flats halfway to River.  
 Good woven wire fence from flats to Road. Fence on flats req'd to be rebuilt each spring.



Home

59



Pope

Home

55

End iron fence

48.5

Drive  
12'

IRON RAILING

415

5'

92.5

Drive  
Gate (Not used)

Gate

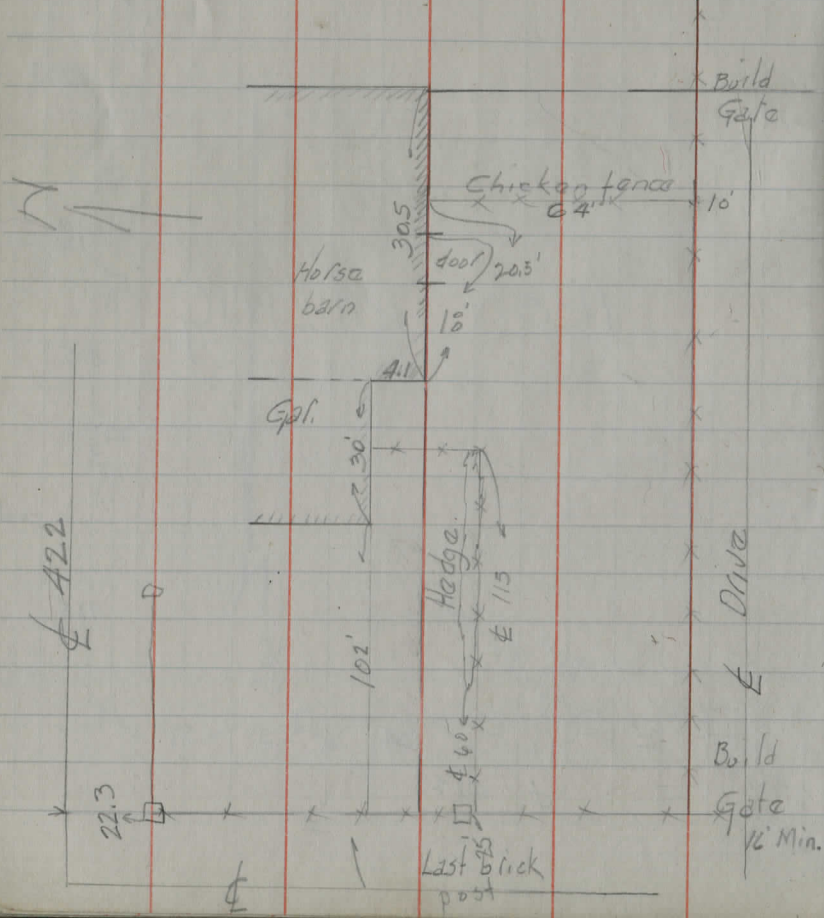
25' 12' 104' 5' 52'

2.5 x 2.5

brick posts

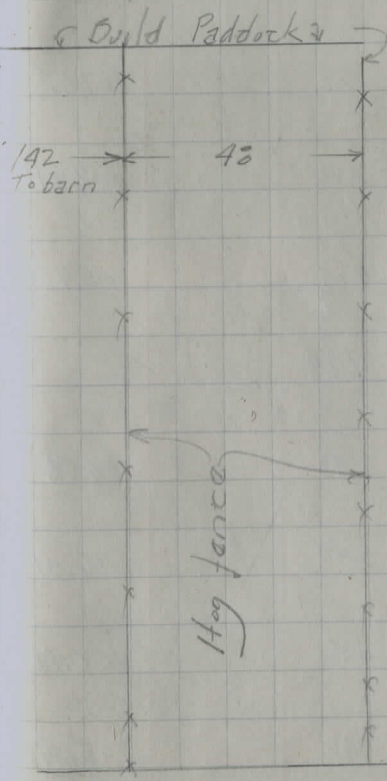
422

# Location for proposed Paddock - Pope Farm



190  
41  
149

56



11/7/40  
 Fomeroy  
 Richards

Levels for drain tile  
 Co. Home Grade

BM	0.41	122.10	121.69
T.P.	1.72	113.61	111.89
FL. 2-6 tile		3.8	108.81
Ground		2.00	
+50		1.72	108.43
100			
+10		1.38	108.06
+50		2.42	107.68
2		3.20	107.31
+50		4.06	106.93
+70		4.24	
30		3.93	106.56
+50		3.49	106.31
4		4.35	106.06
+50		4.12	105.81

Spike N.W. side 18" Walnut.

	4.80	
Ground	.8	
	<u>2.4</u>	
	5.18	
29	1.68	✓
	<u>3.5</u>	
	5.55	
2.65	1.55	✓
	<u>4.0</u>	
	5.93	
39	2.43	✓
	<u>3.5</u>	
	6.30	
4.6	3.30	✓
	<u>3.0</u>	
	6.68	
5.3	4.18	✓
	<u>2.5</u>	
	6.90	
5.5	4.40	✓
	<u>2.5</u>	
	7.05	
5.1	4.05	✓
	<u>3.0</u>	
	7.30	
5.1	3.80	✓
	<u>3.50</u>	
	7.55	
5.8	4.55	✓
	<u>3.0</u>	
	7.80	
5.8	4.30	✓
	<u>3.5</u>	

0.10 to 0.30 0.75 % G.I.  
 3.0 to 7.10 0.50 % "

113.61

5	4.66	105.56
---	------	--------

+50	5.47	105.31
-----	------	--------

6	7.49	105.06
---	------	--------

+50	8.13	104.81
-----	------	--------

7	8.55	
---	------	--

58

6.3	8.05	
	<u>5.05</u>	39
	C 3.0	

7.1	8.30	
	<u>5.80</u>	83
	C 2.5	

8.6	8.55	
	<u>7.55</u>	46
	C 1.00	

9.5	8.80	
	<u>8.30</u>	47
	C 0.5	

9.6	9.05	
	<u>8.55</u>	✓
	C 0.50	

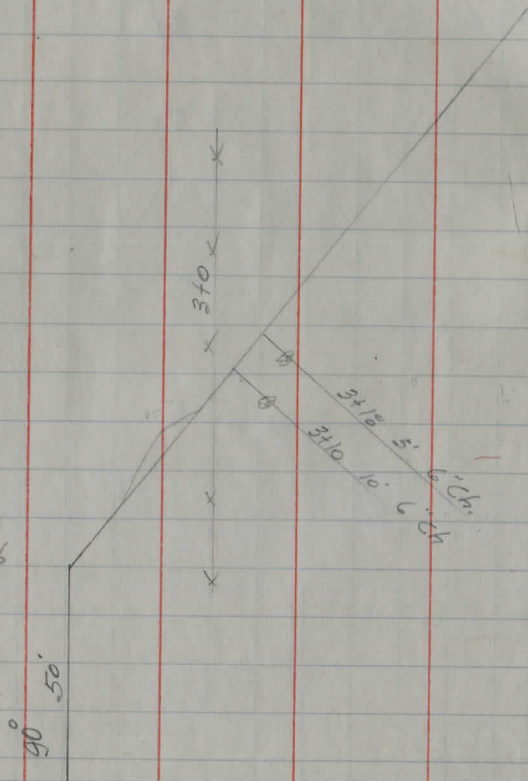
12-2-40  
 Pomeroy  
 Richards

Proposed new drive for  
 Co. Home

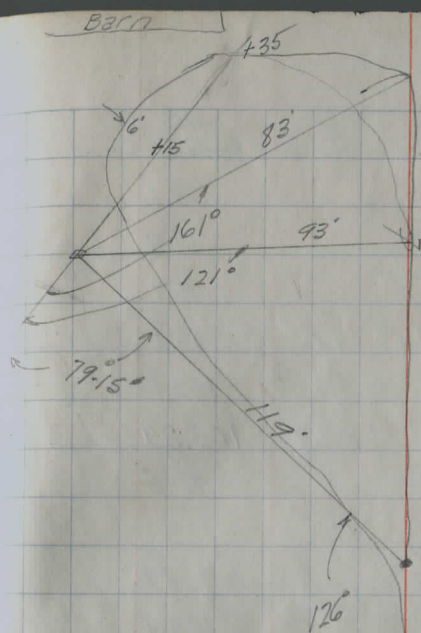
Hail

6+07  
 6+0

$\Delta = 74^{\circ} - 20'$  Hub



trav. Rd



Present  
 Dr. 433.00

333.5'

trav. Road

BM.	4.58	104.52		255. 100.00
6+0				98.1
6+35				97.0
6+83				95.7
6+07				98.4
7+19				102.8
T.P. #1			0.69	103.89
5+0				98.5
T.P. #2			1.75	
T.P. #1	12.73	116.62		103.89
100 = 8+19				109.1
200				115.9
T.P.	12.47	128.50	0.59	116.03
300				122.3
T.P.	11.79	140.16	0.13	128.37
400				130.4
+ 50				134.6
4+83				140.1
0+0				131.4
0+50				128.9
T.P.	1.07	130.33	10.90	129.26
1+0				124.2
2+0				116.5
T.P.	0.18	118.41	12.10	118.23
+ 22				113.9
+ 50				116.0

SE. x of So. end Conc. abut. for barn approach

6.5

7.6

8.9

6.2

1.76

6.1

7.5

0.7

6.2

9.8

5.6

0.10

8.8

11.3

6.1

13.8

4.5

2.4

118.41

3+0 113.6

+50 108.5

4+0 107.5

T.P. 2.14 107.83 12.72 105.69

5+45 95.2

B.M. 7.90 99.93 (100.00)

X Sections

B.M. 7.60 107.60 100.00

5+50 95.1

5 98.4

T.P. 11.79 117.55 1.84 105.76

4 107.55

3+50 108.25

3 113.75

2+35 116.15

61

4.8

9.9

10.9

12.6

SW

NE

96.2 11.4 11.8 12.5 12.5 12.8 94.6  
15 10 10 1599.9 7.7 9.2 10.9 96.7  
15 15108.0 9.5 10.0 10.4 107.1  
15109.0 8.5 9.3 10.0 107.5  
15 15114.6 2.9 3.8 6.0 111.5  
15 15117.1 0.4 1.4 3.6 114.0  
15 15

117.55

2+25

114.05

T.P.

12.91

129.31

115

116.46

2

116.5

1

124.2

0+50 New

128.8

+0.01

129.32

129.26

62

SW

NE

116.0

1.5

3.5

4.9

112.6

15

116.5

12.8

12.8

13.5

115.8

15

125.1

4.2

5.1

6.1

123.2

15

127.8

1.5

0.5

0.5

128.8

15

Grid level 5' up from  
basement floor

1st floor window 4.4' above  
ground level

Front porch 2' up from gd

Porch width 10'

Porch set in 1.5' from N.W. of  
house

House to panel fence = ± 40'

Grid level of fence ± 2' above  
road.

Levels for Proposed Channel S. pasture

B.M.	3.61	203.61	200.00	355.
0+0	Gd		6.8	196.81
	Stk		5.20	198.41
1+0	Gd		7.3	196.39
	Stk		6.11	197.50
2+0	Gd		7.7	195.91
	Stk		6.35	197.26
+50	Gd		8.7	194.91
	Stk		7.44	196.17
3+0	Gd		9.7	193.91
	Stk		8.44	195.17
+35			11.2	192.41

Sharp break here to creek

W. Root 16" Ash 5' S. of pasture fence <sup>69</sup>

2-11-41

Pom.

Rich.

4-8-41  
Pomeroy  
G. Hosford

# Proposed Water Storage Basin

3+45

W. end 30" Corr. I.P. at drive

2+60

$\Delta = 16-37$  L

0+0

E. end 30" Corr. I.P. at road

65

$\Delta = 21-33$  R

B.M.	1.35	101.35	100	Assumed
0 to	FL.		94.50	
1 to			93.75	

2 to			91.75	
------	--	--	-------	--

2 to 60				
T.P.	3.05	94.63	9.77	91.58

3 to				87.7
------	--	--	--	------

3 to 45				85.33
---------	--	--	--	-------

3 to 53	drive			
---------	-------	--	--	--

3 to 61	FL.			84.93
---------	-----	--	--	-------

4 to				85.3
------	--	--	--	------

4 to 30	Dam here or at drive 83.9			
	Spring just E of drive			

5 to				
------	--	--	--	--

H

5

N.E. & E. conc. Adwell.

6.85

7.6

6.7	7.2	9.6	7.6	9.5	8.3	7.3
35	24	20	£	25	34	46

8.7	9.0	11.0	12.7	11.2	11.4	11.7	12.5	10.1	8.9
55	45	40	25	18	£	9	12	16	27
			Ch.						

2.4	5.4	6.9	7.5	5.9	4.0	2.9
58	50	£	10	11	18	26

9.3

FL

2.0	2.9	5.4	6.4	3.5	2.6
90	73	48		30	40

9.7

3.7	4.4	7.6	10.2	7.1	5.2	7.7
67	58	50	4	8	15	31
			Ch.			

4.4	4.8	8.4	10.0	11.1	10.7	9.4	7.6	6.4	3.7	1.5
57	47	38	11	£	6	12	17	23	39	
				Ch.						

6.6	7.5	8.9	11.4	11.1	12.1	12.4	11.4	8.4	6.5	4.4
60	50	40	31	5	£	3	8	16	23	42
						Ch.				

T.P. 10.02 101.60 3.05 91.58

B.M. 1.62 99.98 100.00

### Proposed H<sub>2</sub>O Storage

B.M. 0.97 100.97 100.00 255.

T.P. 1.03 89.22 12.78 88.19

Note: Base line is straight line

0-50

0+0

82.02

+50

solid rock in channels

+90

1+15

5.00

87.02

82.02

0-20

0-20

0+0

### County Home Claridem

S.E. 4 of Sec 2 conc. abut. to barn approach

8.7	9.4	14.8	15.0	13.4	15.2	16.6	15.7	14.9	7.4	4.2
65	46	32	20	14	6	10	17	31	53	79
						channel				

4.9	11.2	9.6	7.0	7.2	12.7	12.5	12.8	11.0	9.7	8.1	6.1	2.6
74	39	33	6	00	15	34	40	42	48	55	74	100
	50				channel							

4.9	6.4	5.4	7.7	10.1	9.3	10.8	8.9	5.8	6.7	4.6
73	31	19	00	6	23	32	41	63	79	100
	45			19	channel					

2.3	3.5	3.3	4.5	5.1	7.0	6.6	5.4	4.1	5.3	5.3	4.4	2.4
71	53	30	20	80	29	84	63	77	91	99	106	115
											channel	

0.1	2.5	3.1	2.1	0.0	0.6	1.6	3.3	3.1	0.0
34	27	2	6	41	69	88	701	118	126

79.5	80.9	75.8	75.1	75.4	76.4	80.8	83.0
7.5	6.1	11.2	11.8	11.6	10.6	6.2	4.0
24	5	10	14	25	37	50	63

Rock 2

12.9	14.1	15.6	13.4	11.4
TO	17	25	32	37
Rock		channel		

5' on Rock

2.0	2.5	3.5	4.0
15	25	40	

County Home Dam  
Length = 54'

Sta 0-20

stk. set 3' off end DZM

5-10-41

# Water Storage Pope Home

F.L. 6.86 91.79 84.93  
 H<sub>2</sub>O Level = 84.93 + 1.00 = 85.93 Top dam = 85.93 +  
 0 to C 1.0 88.49  
 0 to " C 0.5 88.00

0 to

0 to

+50

+50

1 to

6.86. ch fl.

1.5 = 87.43

S/K L+(S) 3.30

" R+(N) 3.80

88.0	85.8	82.5	81.9	83.2	82.7	93.0	85.5	86.5	87.8
7.8	6.0	9.3	9.9	8.6	9.1	8.8	6.3	5.3	4.0
30	19	15	9	3	17	21	30	36	47

South 81.3 80.9 Rock 2 82.0 81.3 81.3 North

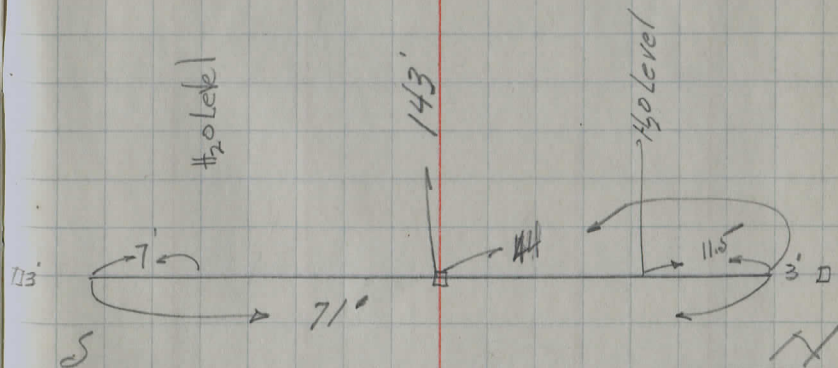
86.5	83.0	83.3	84.0	83.9	85.0	87.6
5.3	8.5	8.5	7.8	7.9	6.8	4.2
18	12	8	3	15	30	37

82.1 82.6 Rock 2 82.9 83.4  
 9.7 9.2  
 8 3  
 8.9 4.4  
 15 30

87.2 84.8 84.3 85.4 87.4 90.3  
 4.6 7.0 7.5 6.4 4.4 1.5  
 11 6 9 9 50 58

83.8 83.8 83.6 84.8  
 8.0 4.0 4.2 7.0  
 4 channel 9 50

E end Dr pipe



$$\begin{array}{r} 71 \\ 44 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 71 \\ 44 \\ \hline 27 \end{array}$$

10.5  
 16.9  
 525  
 105

110.25

12

22

11

231 | 1320

0034

526

396

49860

7854  
 110  
 7864  
 7854  
 8.6399

864

12

1728

864

231 | 1036.845

229

1128

1155

County Home Spring Lengths

BM	746	107.46		150.00
Swale 15' NE of BM			12.5	130
Grat Ram	3'	<sup>1.8</sup> 57	10.1	120
High Gr. 150' NE of Ram. Sta 150		<sup>5.2</sup>	3.7	037
Gr 250' NE of Super house Sta 440		<sup>6.5</sup>	40	035
T.P.	9.98	115.74	1.70	106.76
Top Hill in saddle 200' E of 360		<sup>0.1</sup>	5.5	10.2
T.P.	6.73	115.97	6.50	109.24
Sta 8			2.2	13.5
Swale 14 H <sub>2</sub> O			9.8	06.2
Bridge of H <sub>2</sub> O Sta 14			8.0	08.0
Top Hill in same lines above			5.7	
T.P.	13.14	124.56	4.95	111.42
Sta 18			12.5	120
	12.57	134.57	2.56	122.00
	10.55	145.12	0.00	134.57
Horizontal distance			2.02	143.10
Sta 48				143.31
Sta 22				
		106.35		
Swale N 70° E 300'			13.1	93.2
" N 10° E 300'			9.7	96.6
H <sub>2</sub> O	5.6	11.6		06.0

7.5 below spring  
250' N 20° W of Spring

E.A.F.

N<sup>1</sup>/<sub>2</sub> road 12" Apple 200± Ely of Spring on N Bank.

342.5 → N 10° E to ram.  
Ram = 200' → N 70° W  
570' N 10° W is S 1° NE of Bridge  
7+00 North  
Level Sta 7 to 11  
Sta 12 = 125 W  
Sta 18 = fence Sta 19 Angle N 30° W  
Sta 20 = cross creek  
Sta 1 = cross lane  
23+65 = tank

25+80 = circuitous route.

± Location of Water Supply  
 County Home  
 side stakes set 3' Rt or east.

Sta 24+67 = End of Boiler

		N60°40' W	
20+53	Def Lt.	26°45'	11.6 Set
		$\Delta = 26°45'$	
		D = 12	20 = 3.7
		T = 113.53	20+50 = 12.4
		L = 222.92	21 = 3.9
		PC = 19+39.47	
		PT = 21+62.39	
		E = 13.3	

Sta 2+80 Ram N34°15' W

Sta 2+10 Standpipe

Sta 0 Dam N10°10' E

7/18/95

Ridney  
 Rand

72

Stream  
 outlet to old drain 21+25

153°15'

44°25' E

# Levels in Water Supply for County

BM #1	10.37	110.37		100.00
H <sub>2</sub> O Level			3.39	106.98
0+50			0.57	C. 28.2
1+00			2.60	C. 0.79
2+00			5.70	04.67 E 2.31
	2.49	105.43	7.43	102.94
2+80			9.43	96.00 3.96
swamp at 560			7.0	98.4
Outlet to ram			9.9	95.5 7.5
3				96.05
4			9.13	96.30 3.25
5			8.88	96.55 5.15
6			8.63	96.80 5.47
	10.46	112.47	3.42	102.01
7			15.42	97.05 10.46
8			11.21	01.26 7.58
9			9.07	03.40 5.70
10			8.97	03.50 3.45
11			8.87	03.60 2.13
12			8.77	03.70 1.28
13			8.67	03.80 2.72
	4.69	114.44	2.72	109.75
14			10.54	03.90 7.46
15			10.44	04.00 7.96

1/17/35

# Home

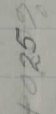
Spike Knot 12" Maple 200' RT Sta 2+00  
Spring Sta 0+00

H<sub>2</sub>O level at stand pipe

C547  
Flow of ram 11' below H<sub>2</sub>O level in Spring.



C2A



C5.88

C3.73

C3.16

C4.96

C3.67

C3.37

C5.52

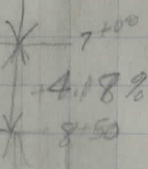
C6.74

C7.42

C5.95

C3.08

C2.48



10.18%

15+00



9+15	✓		14+15	- 2	+1
+35	-01		+35	- 3	-1
+55	- 1		+55	- 1	+1
+75	-1		+75	-1	
+95	+4		+95	✓	
10+15	+ <del>3</del> 3	1			
35	+ 3	3			
55	+ <del>3</del> +3				
75	- <del>3</del> +3				
95	- <del>3</del> +2				
11+15	✓	+3			
+35	✓	+3			
+55	+ 3	+3			
+75	+ 7	+2			
+95	- 1	+2			
12+15	✓	+2			
+35	+ 9	+3			
+55	+ 2	+2			
+75	+ 2	+3			
+95	+ 4	+2			
13+15	+ 4	+2			
+35	+ 1	+2			
+55	- 2	+2			
+75	+ 1	+2			
+95	+ 2	+2			

$$D = \frac{V \times F \times 40}{E}$$

V = gal/min supply  
 F = Fall in ft.  
 E = Vert Elev. to tank  
 D = gal delivered

$$\frac{30 \times 11 \times 40}{25}$$

1200  
 11  
 12  
 12  
 95 | 13200 | 140  
 25  
 370

100  
 24  
 56  
 35  
 3360

Stakes for Dam Co. Home

11/21/41 Hoxford, Richards

Sta. 0-20 stakes set 3' off and  
Dam

Ground to S 1/2<sup>ft</sup> Higher than Crest of Dam,  
Length of Dam 54'

0+0      2.54      84.56      82.02

Gr. Elev. at N end Dam

Gr. Elev. at S end Dam  
4.85 + 3' off Dam 5.35

Stk. Gd. to 185 C-3.0'

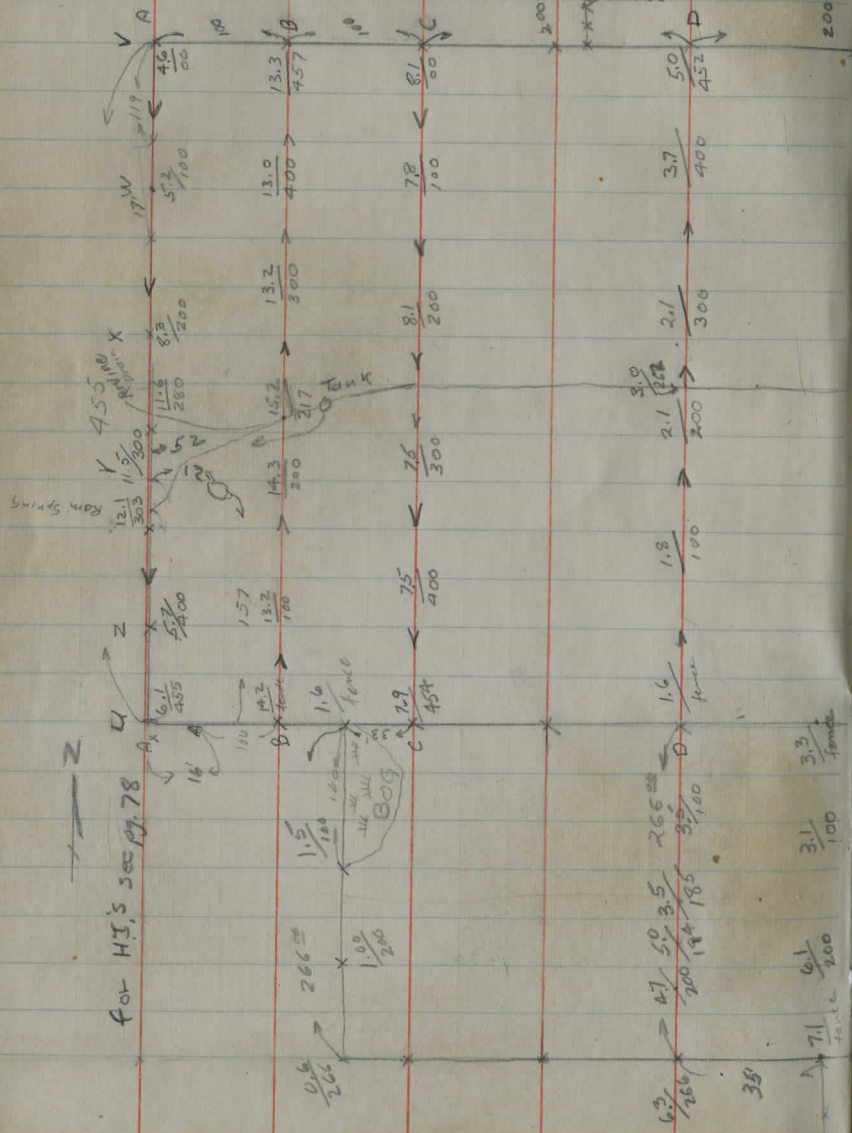
Stk. set  
for family

Stake Gd. to 335 C-1.5'

B.M.	2.98	102.98		100.00
T.P.	0.22	90.62	12.58	90.40
B.M.			10.50	80.12

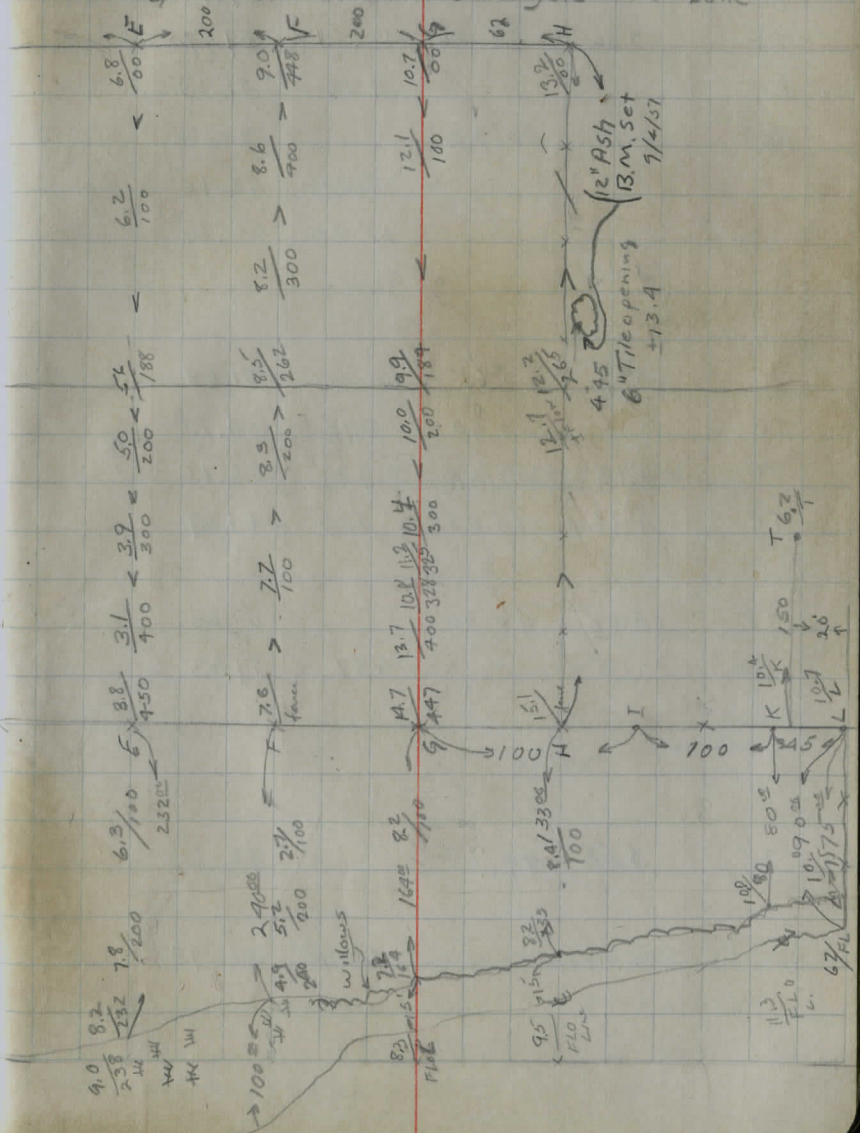
ASSUMED PER PAGE 60

EST PALE BIG BARN



for H.I.'s see pg. 78

B.M. set - spk S root 32" Elm 6' N of gate - W. of Lane



T 62

Sta	+	-		
	BS	HI	FS	Elev.
BM.	0.17	80.29		80.12
TP	2.83	72.20	10.92	69.37
TP			3.10	69.10
T.P.	2.56	62.26	12.50	59.70
T.P.			9.58	51.68
BM	0.18	80.30		80.12
*			8.20	72.10
			15.20	65.10

TP	3.97	55.65		51.68
TP	8.65	63.40	0.95	54.75
TP	4.13	50.29	9.49	46.16
TP	4.16	65.53	2.03	61.37

TP	4.62	56.30		51.68
BM			4.87	51.43

TP	3.52	49.68		46.16
			10.95	38.73

8-23-51 Maynard  
Temple  
Bender 78

This HI - AV to BV thru AU

" " - CV to CU thru CX

TP Top of fence Post G-2+00 in S fence line

This HI - DU to HV thru FU

TP Top fence post G-10+00 in S. fence line

\* Reading on NW 30° Walnut (see pg 74)

Flowline in tank

9/2/51

Maynard  
Bender

This HI for "F" thru "L"

(Near E) This HI for "D" thru "E"

(Near H) This HI for flow line of chnl @ "L" & pt "T"

This HI for W. fence line

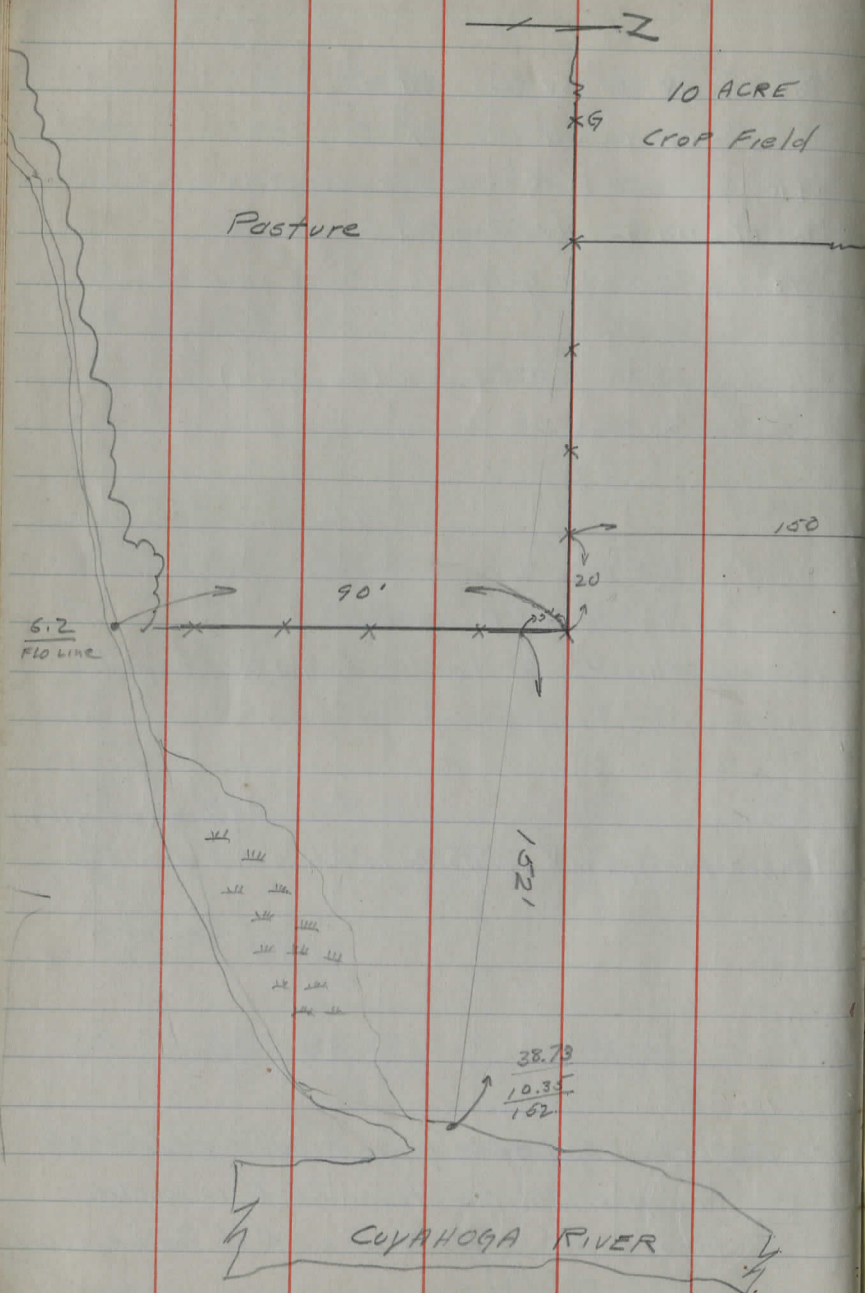
[ditto (see pg 76)]

BM set Hor. Spk in "V" in S. Side 12" Ash 6' N. of drainage

9/5/51

Maynard  
Bender

152' From E. Pasture Fence to outlet Willow Creek  
in approx. Str. line from S.E. of 10 Acre Lot  
thru a pt. ± 5' S of NE of Pasture Fence  
(see pg 79)



BENDER  
Maynard

9/9-5/51 79

$$\frac{6.2}{150}$$

$$\begin{array}{r} 38.73 \\ 10.35 \\ \hline 152 \end{array}$$

# KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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in Washington, D.C.

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## HOW TO USE KEITH'S TABLES.

### EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle  
of Intersection or I. P.= $23^{\circ} 20'$  to the R. at Station  
542+72.

Ext. in Tab. IV opposite  $23^{\circ} 20' = 120.87$   
 $120.87 \div 12 = 10.07$ . Say a  $10^{\circ}$  Curve.

Tan. in Tab. IV opp  $23^{\circ} 20' = 1183.1$   
 $1183.1 \div 10 = 118.31$ .

Tab. V. correction for A.  $23^{\circ} 20'$  for a  $10^{\circ}$  Cur.=0.16  
 $118.31 + 0.16 = 118.47 =$ corrected Tangent.

(If corrected Ext. is required find in same way)  
Ang.  $23^{\circ} 20' = 23.33^{\circ} \div 10 = 2.3333 =$ L. C.

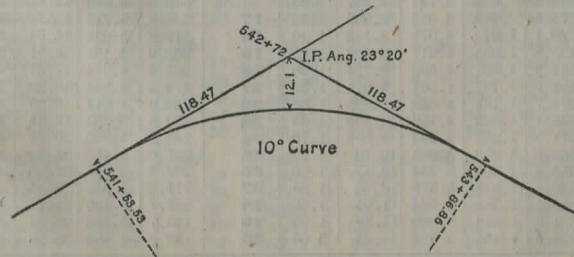
$2^{\circ} 19\frac{1}{2}' =$ def. for sta.	542	I. P.=sta.	542+72
$4^{\circ} 49\frac{1}{2}' =$ " " "	+50	Tan.=	118.47
$7^{\circ} 19\frac{1}{2}' =$ " " "	543	B. C.=sta.	541+53.53
$9^{\circ} 49\frac{1}{2}' =$ " " "	+50	L. C.=	2.33.33
$11^{\circ} 40' =$ " " "	543+	E. C.=sta.	543+86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' =$ (def. for 1 ft. of  $10^{\circ}$  Cur.)= $139.41' =$   
 $2^{\circ} 19\frac{1}{2}'' =$ def. for sta. 542.

Def. for 50 ft.= $2^{\circ} 30'$  for a  $10^{\circ}$  Curve.

Def. for 36.86 ft.= $1^{\circ} 50\frac{1}{2}'$  for a  $10^{\circ}$  Curve

(These tables are published in Field Books of  
KEUFFEL & ESSER Co., New York, N. Y.)



254

48  
3

51

144  
144

558  
326  
232

1784

3347  
17

40

36828

4871360

13.3

8.5 down

65

2x2 window

1500

155-40

24-20

30  
10  
300

1800  
50  
90000

45 ton  
5280  
3700.0  
36960  
0400

PLEASE RETURN TO  
 GAUGA COUNTY ENGINEER  
 DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
 ROADWAY 36 FEET WIDE. SIDE HOUSE 14 FT. WIDE.  
 FOR SIGN ERECTION OR REPAIRMENT.  
 CHARDON, O.  
 PHONE 250-7X

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.

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