

Resurvey part of C.R. 12 (S.E. 292 North to
Logan Co.,

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Reference points set - C.R. 12 Sta. 22 + 37.15 -

Intersection C.R. 272 w/ C.R. 286 - Seminoles

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"

Resurvey part of C.R. 96 (N.W. cor. V.M.S. 9949

Logan Co.,

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Alley Survey, Orchard Island, Wash

"

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Resurvey T.R. 148, Perry Twp.

"

Intersection T.R. 95 w/ S.R. 366

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Indian Mound Park - Moundwood Allotment

S.R. 47) - Perry, Pokesscreek & Richcreek Twp. - 1
Ohio 2

" 3

" 4

" 5

" 6

" 7

" 8

Perry Twp., Logan Co., Ohio 9

Island, Stokes Twp., Logan Co., Ohio 10

" 11

" 12

" 13

to N.E. cor. V.M.S. 9949) Richland Twp. 14

Ohio 15

" 16

" 17

Washington Twp., Logan Co., Ohio 18

" 19

" 20

Logan Co., Ohio 21

" 22

Richland Twp., Logan Co., Ohio 23

" 24

Washington Twp., Logan Co., Ohio 25

Intersection old R.R. w/ Elliott Rd. - Russells
Resurvey C.R. 173 - Liberty & Monroe

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C.R. 1 - Hillcut - Gurnettown Rd. Project -

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C.R. 29 - Hillcut - Gurnettown Rd. Project -

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Resurvey part of T.R. 56 - McArthur

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Resurvey part of T.R. 206 - Harrison

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Resurvey part of T.R. 55 - Jefferson

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Pt. Washington Twp., Logan Co., Ohio

Twps., Logan Co., Ohio

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Lake-Liberty Twps, Logan Co., Ohio

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Liberty Twp., Logan Co., Ohio

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Twp. - Logan Co., Ohio

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Twp. - Logan Co., Ohio

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Twp. - Logan Co., Ohio

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Resurvey part of T.R. 55 - Jefferson

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Survey T.R. 180 - Jefferson

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Survey part of T.R. 127 - Jefferson

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Intersection of C.E. 61 w/ R.R. -

Resurvey part of T.R. 51 - Richland

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Twp. - Logan Co., Ohio

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Twp. - Logan Co., Ohio

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Twp. - Logan Co., Ohio

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Washington Twp. - Logan Co., Ohio

Twp. - Logan Co., Ohio

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75

Resurvey part of C.R. 12

22+37.15 - P.I. - $\frac{5}{8}$ " ϕ iron fd.
w/mon. box - Intersection
of C.R. 12 w/ E.T.R. 127
 $0^{\circ}11'43"$ Et.

Note:

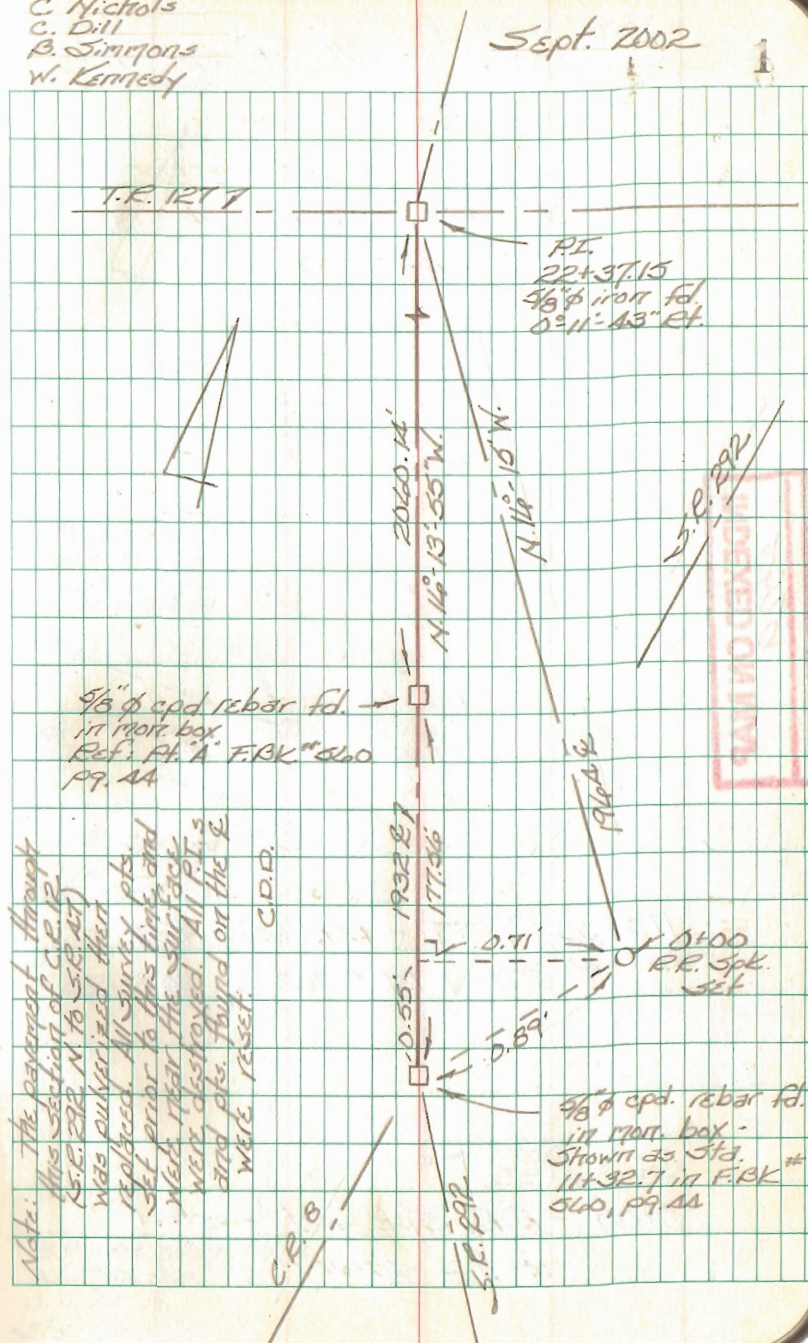
We found all the R.R. Spks. that were set on this tangent in 1964 route survey. They lined up well but missed the $\frac{5}{8}$ " ϕ cpd. rebar w/mon. box at the S. end. I don't know why. There may have been two pts. here in 1964. We set a R.R. spk. 100.00' from spike found @ Sta. 1+00 on line with the rest of the spikes found - Sta. 0+00.

INDEXED ON MAP
4829

0+00 - Set R.R. Spk. on E established in 1964 route survey (F.B.K. # 703, pgs. 25 & 26)

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C. Dill
B. Simmons
W. Kennedy

Sept. 2002



Note: The pavement through this section of C.R. 12 (S.E. 222 N to S.R. 27) was pulverized and replaced. All survey pts. set prior to this time, and which mark the sur track were destroyed. All P.I.'s and pts. found on the E were reset.

C.I.D.

$\frac{5}{8}$ " ϕ cpd. rebar fd. in mon. box -
Shown as Sta. 11+32.7 in F.B.K. # 540, pg. 44

Resurvey part of C.R. 12

5+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.B.K. # 703, pg. 25

INDEXED ON MAP
4329

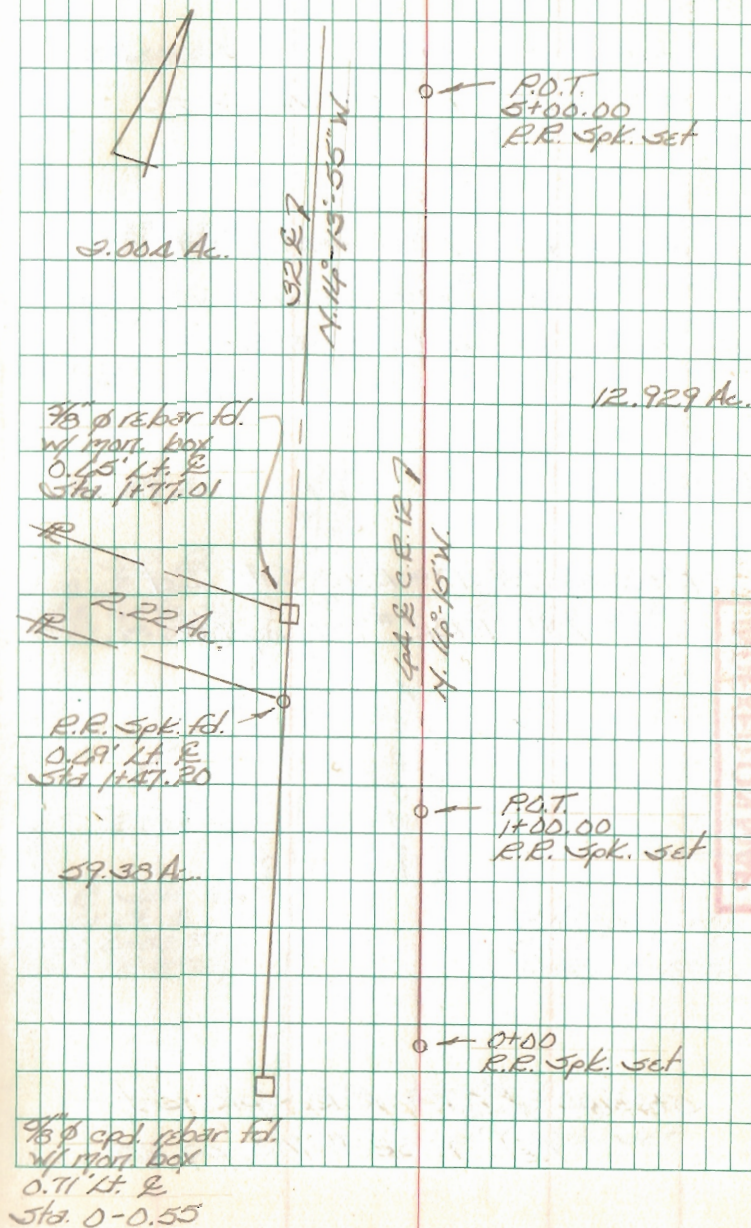
1+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.B.K. # 703, pg. 25

0+00 - R.R. Spk. set - start
of this survey

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B. Simmons
W. Kennedy

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2



Resurvey part of C.R. 12

15+00.00 - P.O.T. - R.R. Spk. Set -

Ref: F.B.K. # 703, pg. 26

13+43.35 - P.O.T. - R.R. Spk. Set -

Ref: 1987 property survey
Index R-7438

10+00.00 - P.O.T. - R.R. Spk. Set -

Ref: F.B.K. # 703, pg. 25

5+00.00 - P.O.T. - R.R. Spk. Set -

Ref: F.B.K. # 703, pg. 25

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3

49.410 Ac.

R 13+63.35

R.R. Spk. fd.
0.99' Lt. E
Sta. 13+20.20
Ref: (R-8972)

15.358 Ac.

R.R. Spk. fd.
1.13' Lt. E
Sta. 4+90.36
Ref: (R-7438)

R 2.004 Ac.

R.R. Spk. fd.
0.61' Lt. E
Sta. 4+53.87
Ref: (R-8972)

P.O.T.
15+00.00
R.R. Spk. set

P.O.T.
13+63.35
R.R. Spk. fd.

P.O.T.
10+00.00
R.R. Spk. set

2 Ac property
Survey
Index R-8972

P.O.T.
5+00.00
R.R. Spk. set

37.27
N. 16° 13' 55" W

part C.R. 12
N. 14° 15' W



2.207 Ac.

12.929 Ac.

INDEXED ON MAP
4329

INDEXED ON MAP
4329

Resurvey part of C.R. 12

22+37.15 - P.I. - $\frac{3}{8}$ " ϕ rebar Fd.
w/ mort. box - Intersection
of C.R. 12 w/ E.T.R. 127
0°-11'-13" Rt.

20+00.00 - P.O.T. - R.R. Spt. Set -
Ref: F.B.K. #703, pg. 26

15+00.00 - P.O.T. - R.R. Spt. Set -
Ref: F.B.K. #703, pg. 26

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T.R. 1277

T.R. 1277

P.I.
22+37.15
 $\frac{3}{8}$ " ϕ rebar Fd.
w/ Mort. Box
0°-11'-13" Rt.

3.312 Ac.

P.O.T.
20+00.00
R.R. Spt. Set

69.410 Ac.

N 14° 13' 55" W

R

248 C.R. 127
N 14° 13' W

2.207 Ac.

32.87

P.O.T.
15+00.00
R.R. Spt. Set

INDEXED ON MAP
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Resurvey part of C.R. 12

40+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. # 703, pg. 27

35+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. # 703, pg. 27

30+74.94 - P.O.T. - Mag Nail Set

30+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. # 703, pg. 26

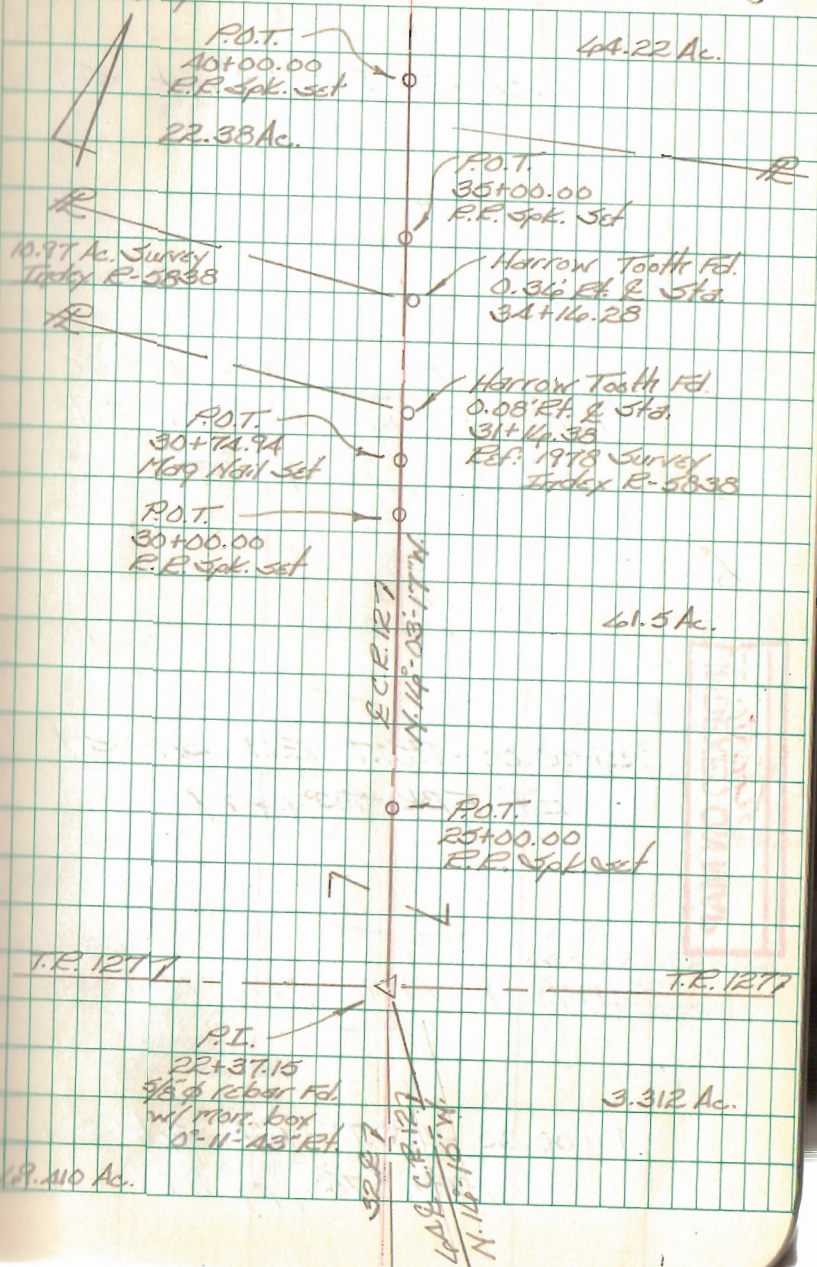
25+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. # 703, pg. 26

22+37.15 - P.I. - $\frac{5}{8}$ " ϕ rebar Fd.
w/ mort. box - Intersection
& C.R. 12 w/ & T.R. 127
0°-11'-43" Rt.

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B. Simmons
W. Kennedy

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Resurvey part of C.R. 12

55+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg 27

50+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg 27

45+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg 27

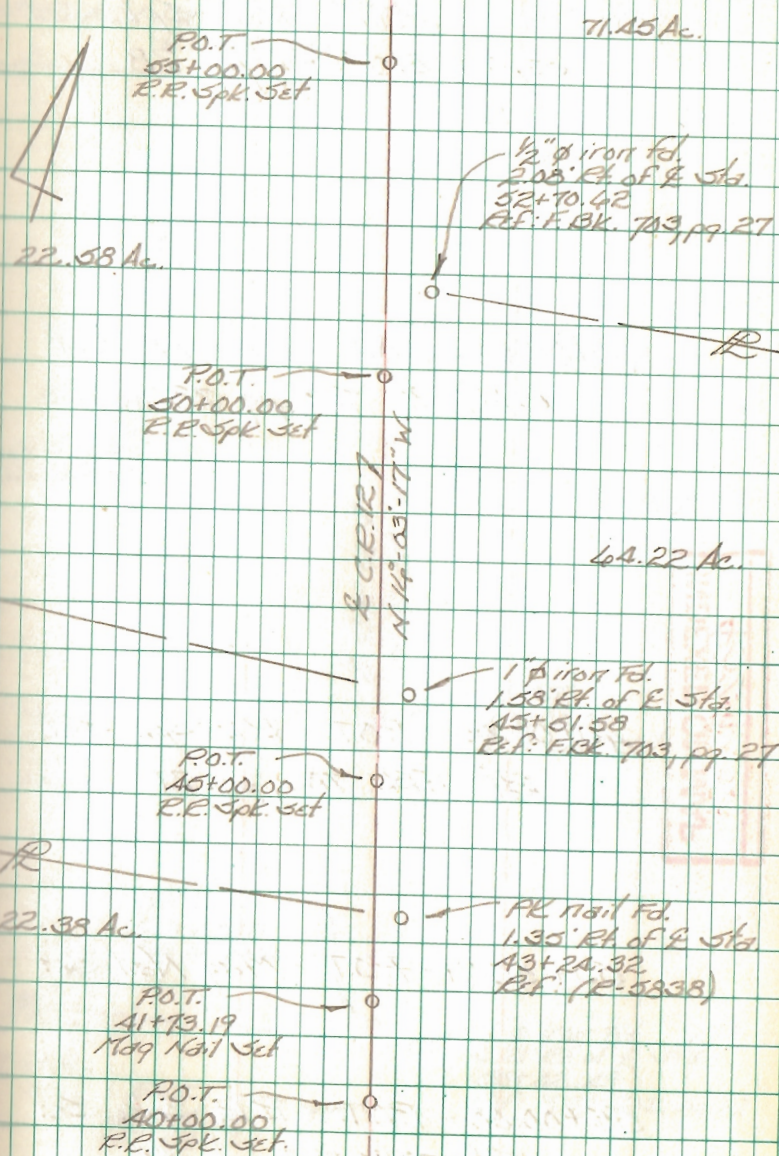
41+73.19 - P.O.T. - Mag Nail Set

40+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. #703, pg 27

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W. Kennedy

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4329

Resurvey part of C.R. 12

70+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.B.K. 703, pg. 28

45+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg. 28

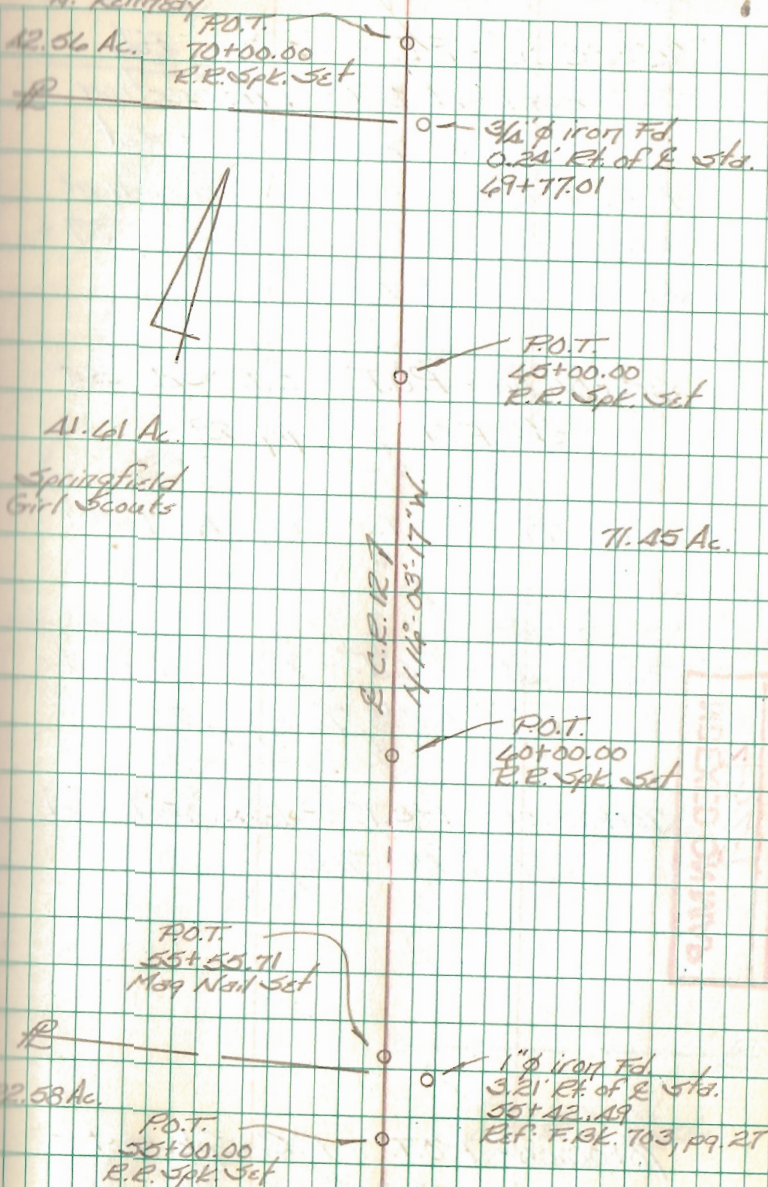
40+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg. 27

55+55.71 - P.O.T. - Mag Nail Set

55+00.00 - P.O.T. - R.R. Spk. Set
Ref: F.B.K. 703, pg. 27

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W. Kennedy

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Resurvey part of C.E. 12

85+85.00 - P.I. - Stone Fd.
in monument box - Intersection
E S.E. 47 w/ E C.E. 12 - Set
R.R. Spk. over stone w/ mag nail
straddles - Ref: F.Bk. 703, pg. 29 -
End of this survey

85+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.Bk. 703, pg. 29

81+90.77 - P.O.T. - Mag Nail Set

80+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.Bk. 703, pg. 28

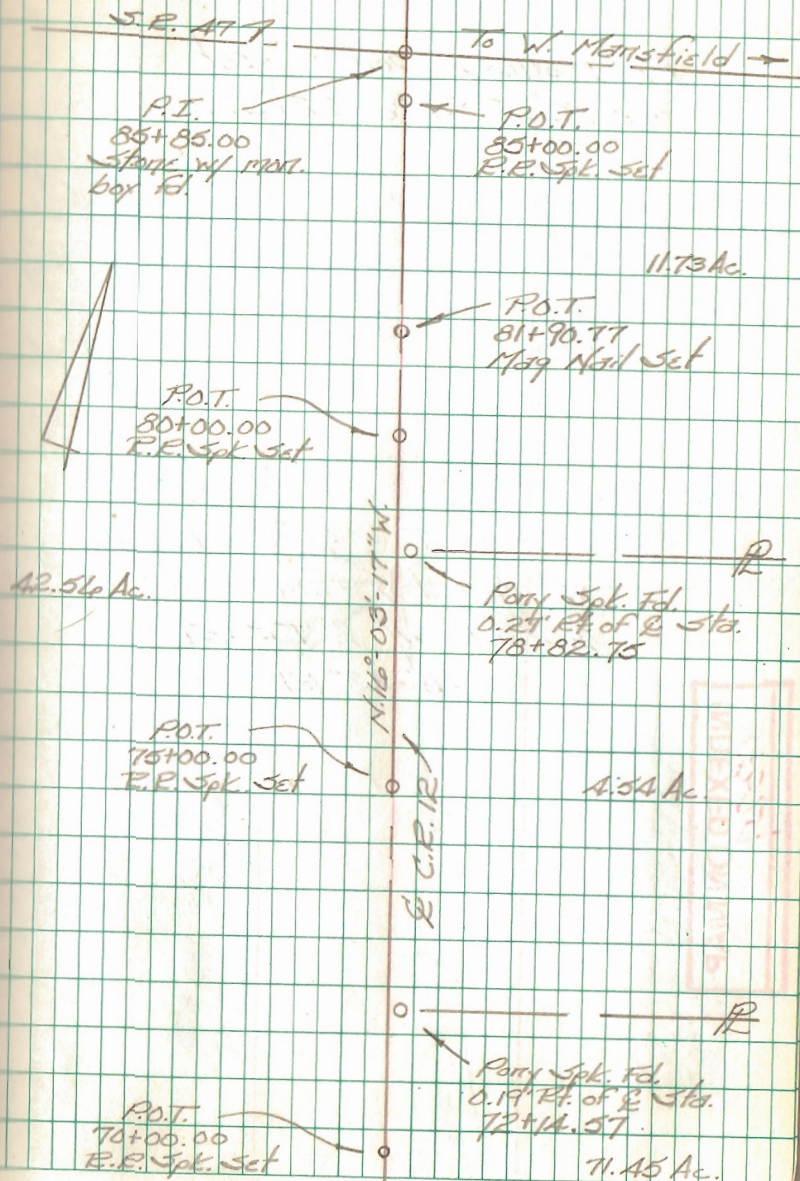
75+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.Bk. 703, pg. 28

70+00.00 - P.O.T. - R.R. Spk. Set -
Ref: F.Bk. 703, pg. 28

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Resurvey part of C.R. 12

Reference points set
for P.I. @ Sta. 22+37.15

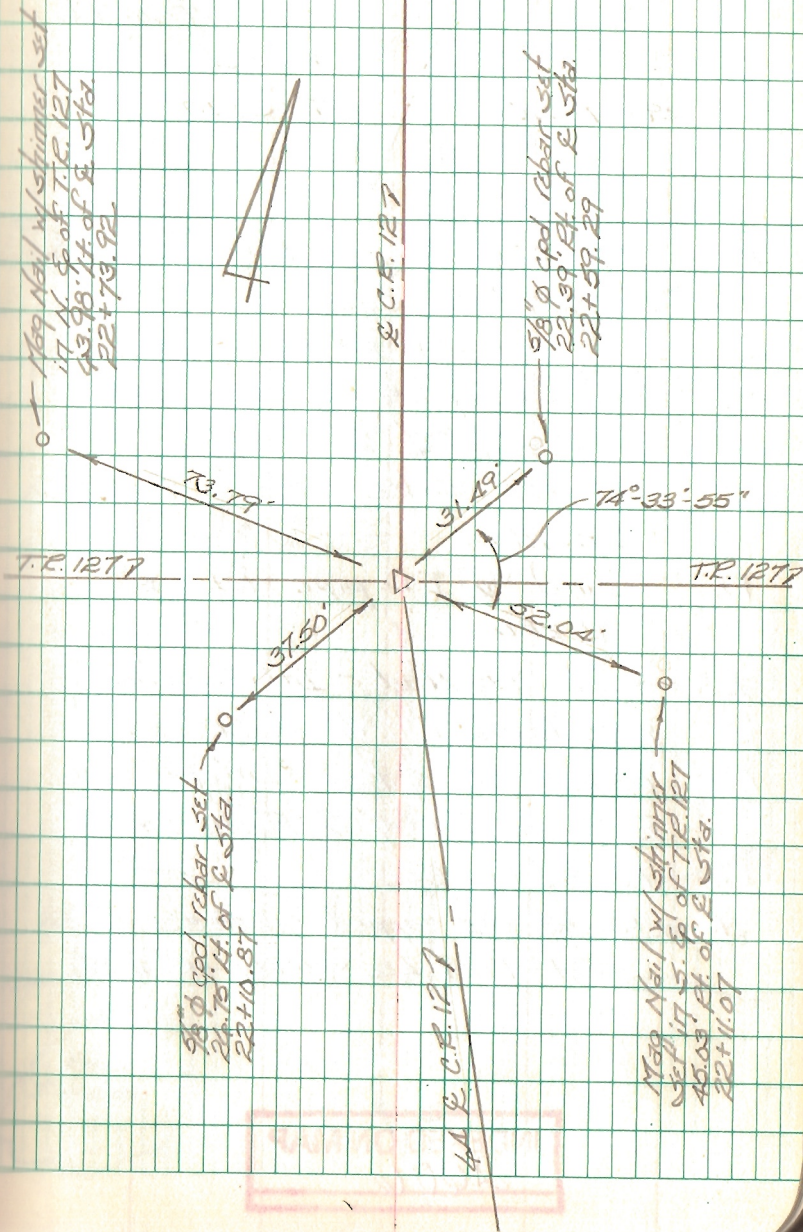
22+37.15 - P.I. - $\frac{5}{8}$ " ϕ rebar fd.
w/ mon. box - Intersection
E C.R. 12 w/ E T.R. 127
0°-11'-43" Rt.

INDEXED ON MAP
43229

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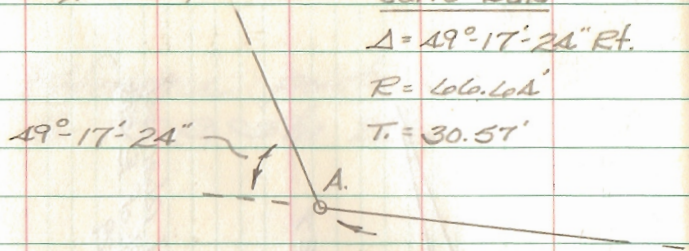
Intersection C.R. 272 w/ C.R. 286
 Serritole Island
 Logan Co., Ohio

Curve Data

$$\Delta = 49^{\circ}17'24'' \text{ Rt.}$$

$$R = 666.66'$$

$$T = 30.57'$$



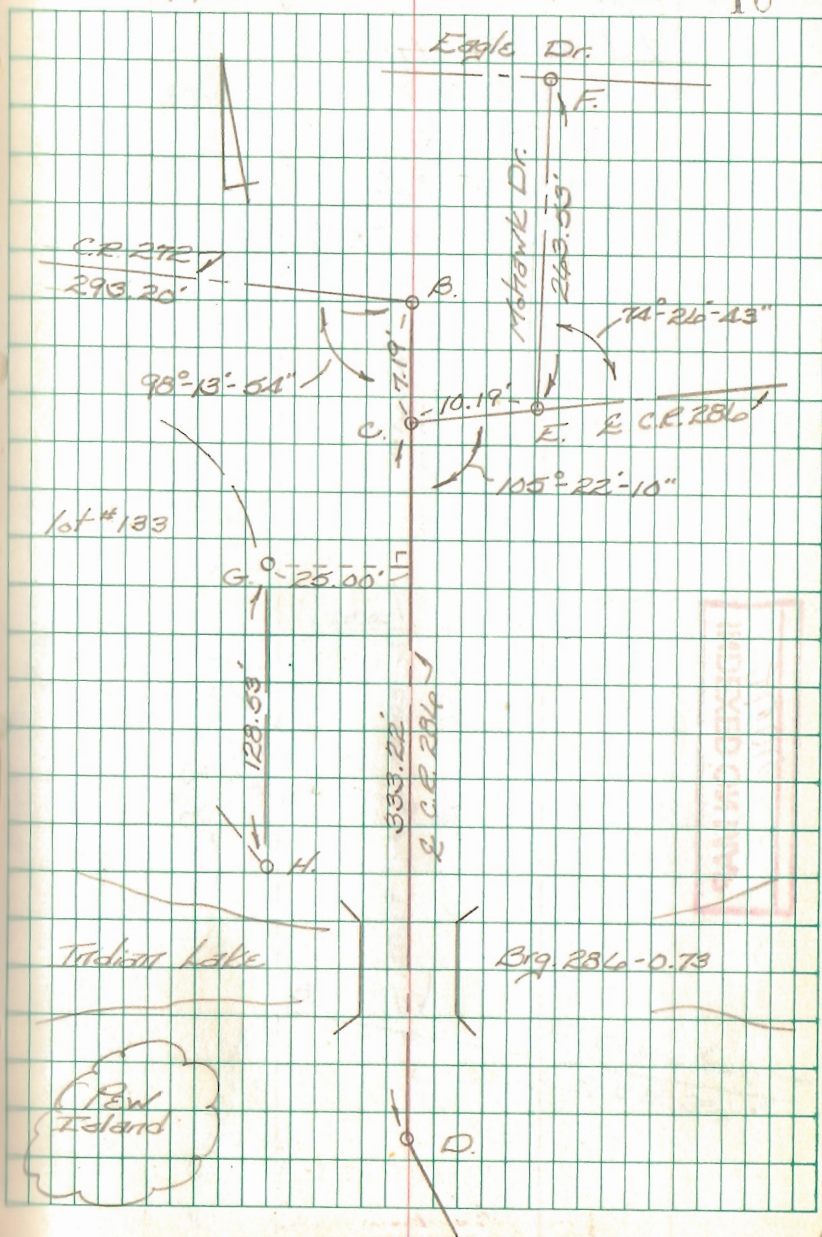
- A. P.I. - nothing set -
 on man hole cover
 $49^{\circ}17'24''$ Rt
- B. Set R.R. Spike - Intersection
 & C.R. 272 w/ & C.R. 286
- C. Set R.R. Spike - P.I. - &
 C.R. 286
- D. Found $\frac{3}{4}$ " I.D. pipe - P.I. - &
 C.R. 286
- E. Set Mag Nail - Intersection
 & Mohawk Dr. w/ & C.R. 286
- F. Found R.R. Spike - Intersection
 & Mohawk Dr. w/ & Eagle Dr.
- G. Fd. $\frac{3}{4}$ " I.D. Pipe
- H. Fd. $\frac{3}{8}$ " dia. capped rebar -
 Ref: 1999 Lee survey (R-12A5)

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 2606

C. Dill
 B. Simmons

Oct. 03

10



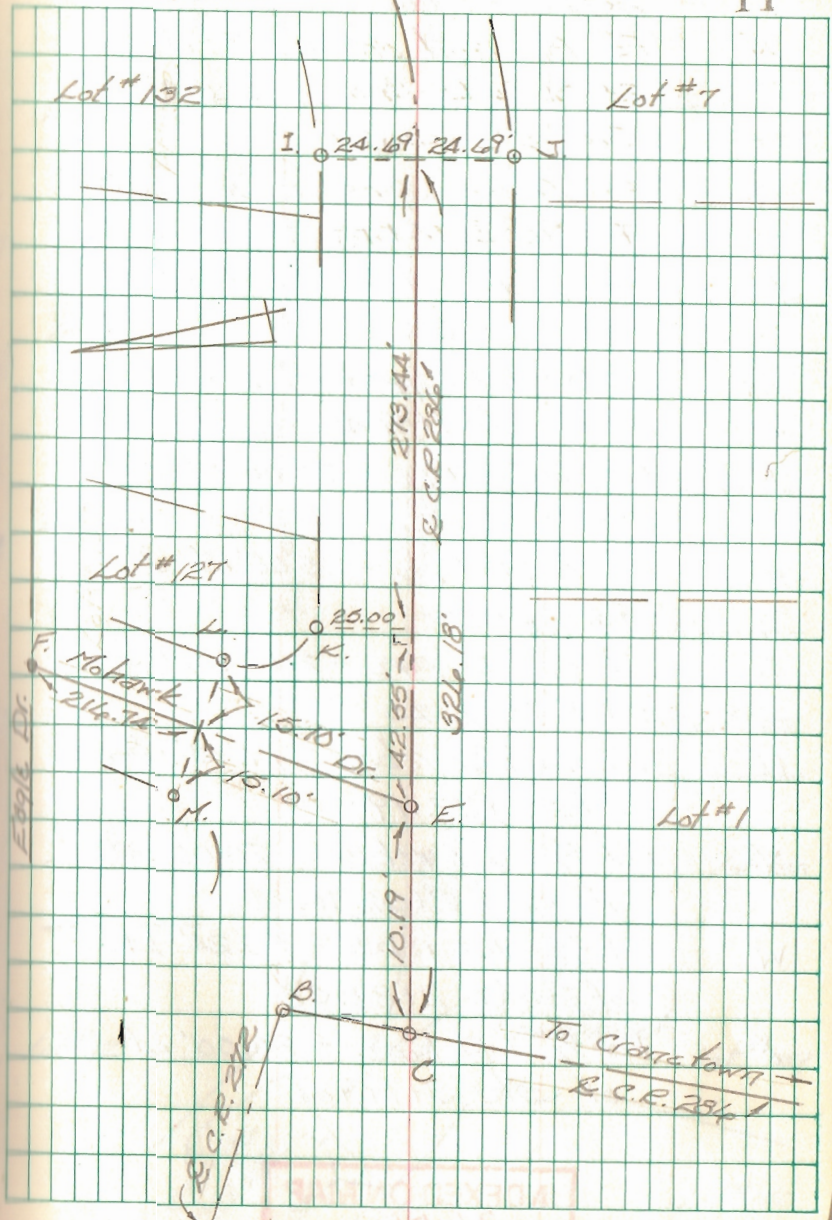
Intersection C.R. 272 w/ C.R. 286
 Semitole Island
 Logan Co., Ohio

- I. Fd. $\frac{3}{4}$ " I.D. Pipe
- J. Fd. $\frac{3}{4}$ " I.D. Pipe
- K. Fd. $\frac{3}{4}$ " I.D. Pipe
- L. Fd. $\frac{1}{2}$ " I.D. Pipe
- M. Fd. $\frac{3}{4}$ " I.D. Pipe

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2006

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 B. Simmons

Oct. 03



Intersection C.R. 272 w/ C.R. 286
 Seminole Island
 Logan Co., Ohio

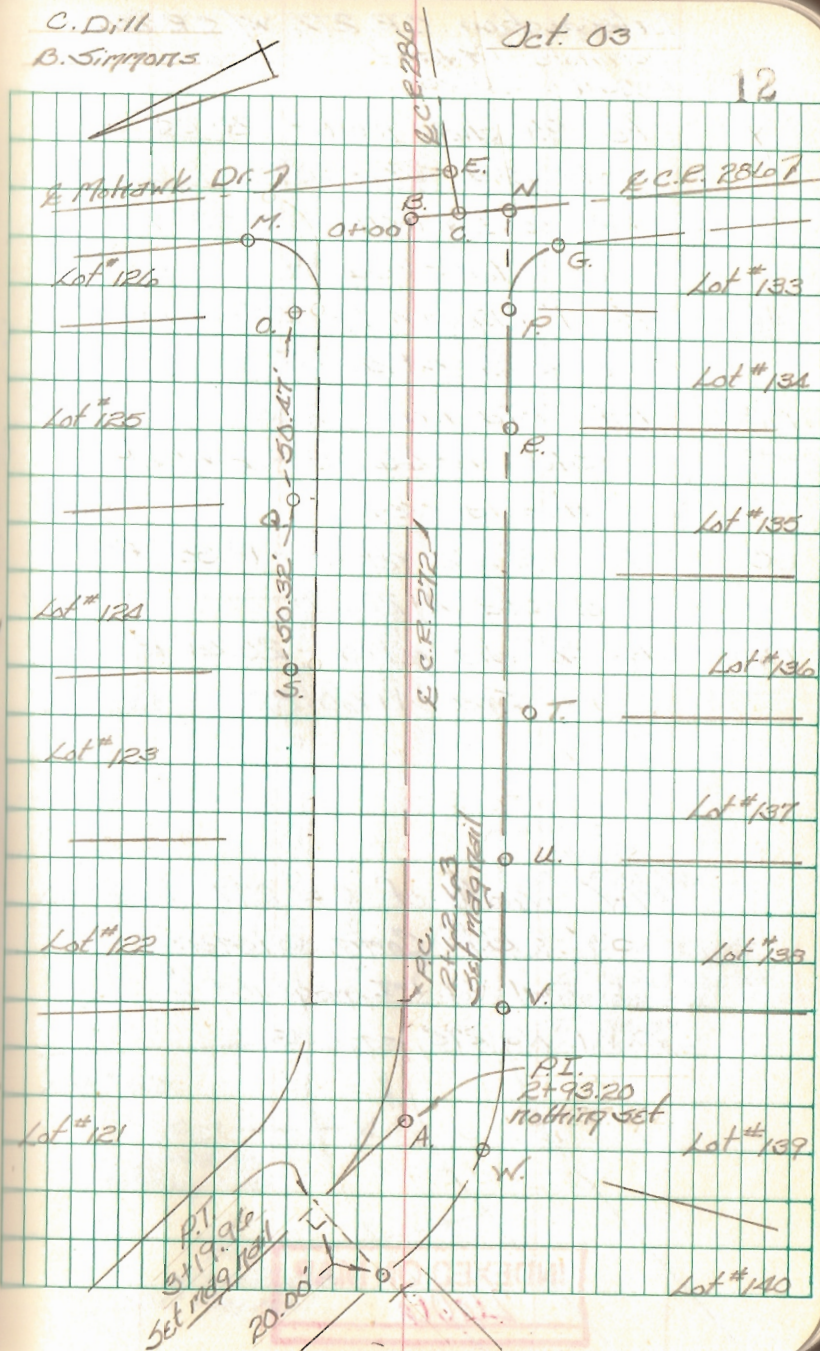
- N. Fd. PK nail on line B-D,
 20.21' From B - circa 1989.
 Brq. site survey
- O. Fd. $\frac{5}{8}$ " dia. capped rebar - 24.92'
 Rt. of Sta. 0+59.01
- P. Fd. $\frac{5}{8}$ " dia. rebar - 19.95' Lt. of
 Sta. 0+62.22
- Q. Fd. $\frac{5}{8}$ " dia. capped rebar - 24.95'
 Rt. of Sta. 1+09.48
- R. Fd. $\frac{3}{4}$ " I.D. Pipe - 20.00' Lt. of
 Sta. 1+02.22
- S. Fd. $\frac{3}{4}$ " I.D. Pipe - 25.08' Rt. of
 Sta. 1+59.80
- T. Fd. $\frac{3}{4}$ " I.D. pipe - 24.94' Lt. of
 Sta. 1+82.20
- U. Fd. $\frac{5}{8}$ " dia. rebar - 19.93' Lt. of
 Sta. 2+22.19
- V. Fd. $\frac{5}{8}$ " dia. rebar - 20.00' Lt.
 of Sta. 2+62.18
- W. Fd. $\frac{3}{8}$ " dia. rebar - 20.24' Lt.
 of Sta. 2+88.98
- X. Fd. $\frac{1}{2}$ " I.D. Pipe - 20.00' Lt.
 of Sta. 3+19.96

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 2606

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Oct. 03

12



Intersection C.R. 272 w/ C.R. 286
 Seminole Island
 Logan Co., Ohio

- Y. Fd. $\frac{3}{4}$ " dia. iron - 20.05' Lt.
 of Sta. 3+47.07
- Z. Fd. $\frac{3}{4}$ " dia. iron - 20.23' Lt.
 of Sta. 3+86.89
- AA. Fd. 1" I.D. pipe - 20.06' Lt.
 of Sta. 4+26.87
- BB. Fd. 1" dia. iron - 20.00' Lt. of
 Sta. 4+66.75 - End of
 this survey
- CC. Fd. $\frac{5}{8}$ " dia. rebar - 19.35' Rt.
 of Sta. 4+22.80
- DD. Fd. $\frac{5}{8}$ " dia. rebar - 20.41' Rt.
 of Sta. 4+60.82

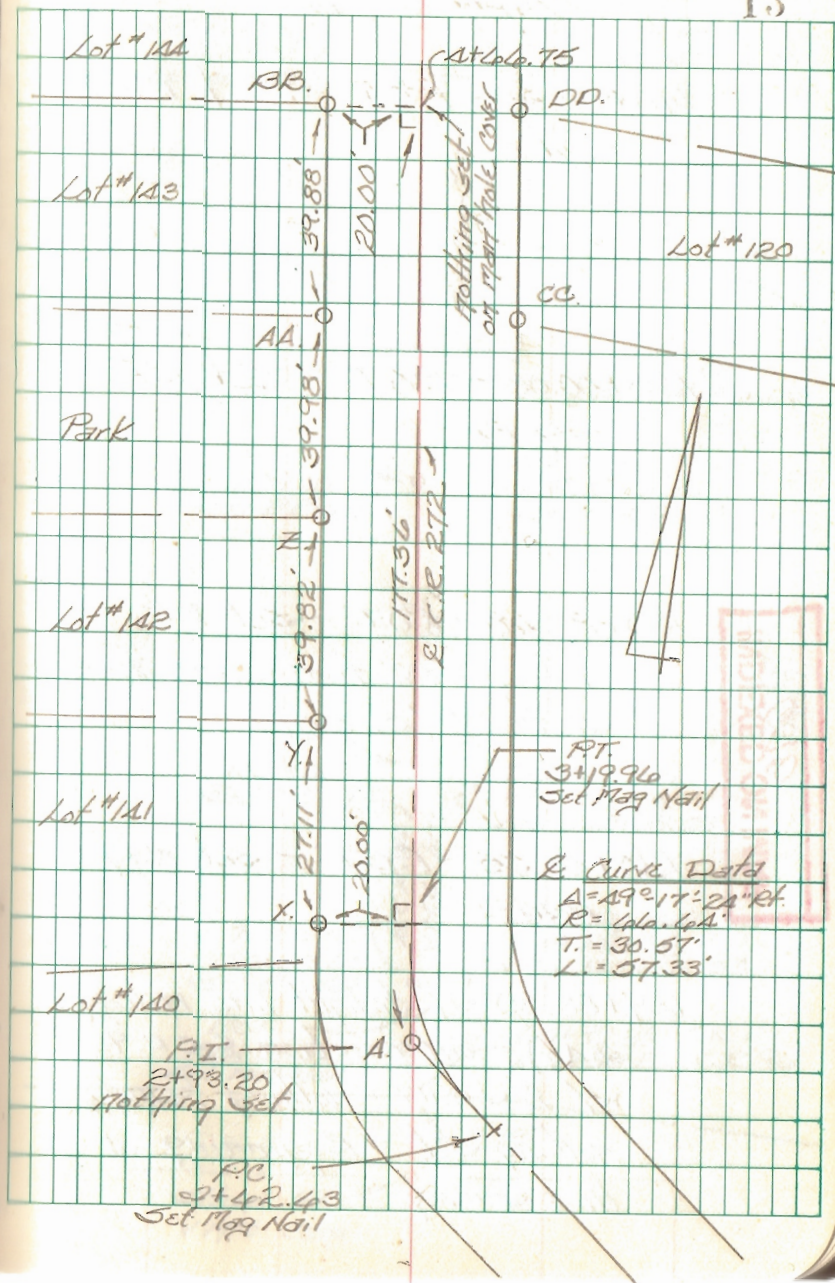
R/W width of C.R. 272 is
 50' Ref: Commissioners
 Journal Vol. 1-I, page 188 &
 D. Vol. No. 275, page 33.

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 2606

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 B. Simmons

Oct. 03

13



Resurvey Part of C.R. 96
 Richland Twp.
 Logan Co., Ohio

140+00.00 - P.O.T. - Set R.R.
 spike

135+00.00 - P.O.T. - Set R.R.
 spike

130+80.48 - P.O.T. - Set R.R.
 spike 100.00' from stone found
 at the V.M.S. corner.

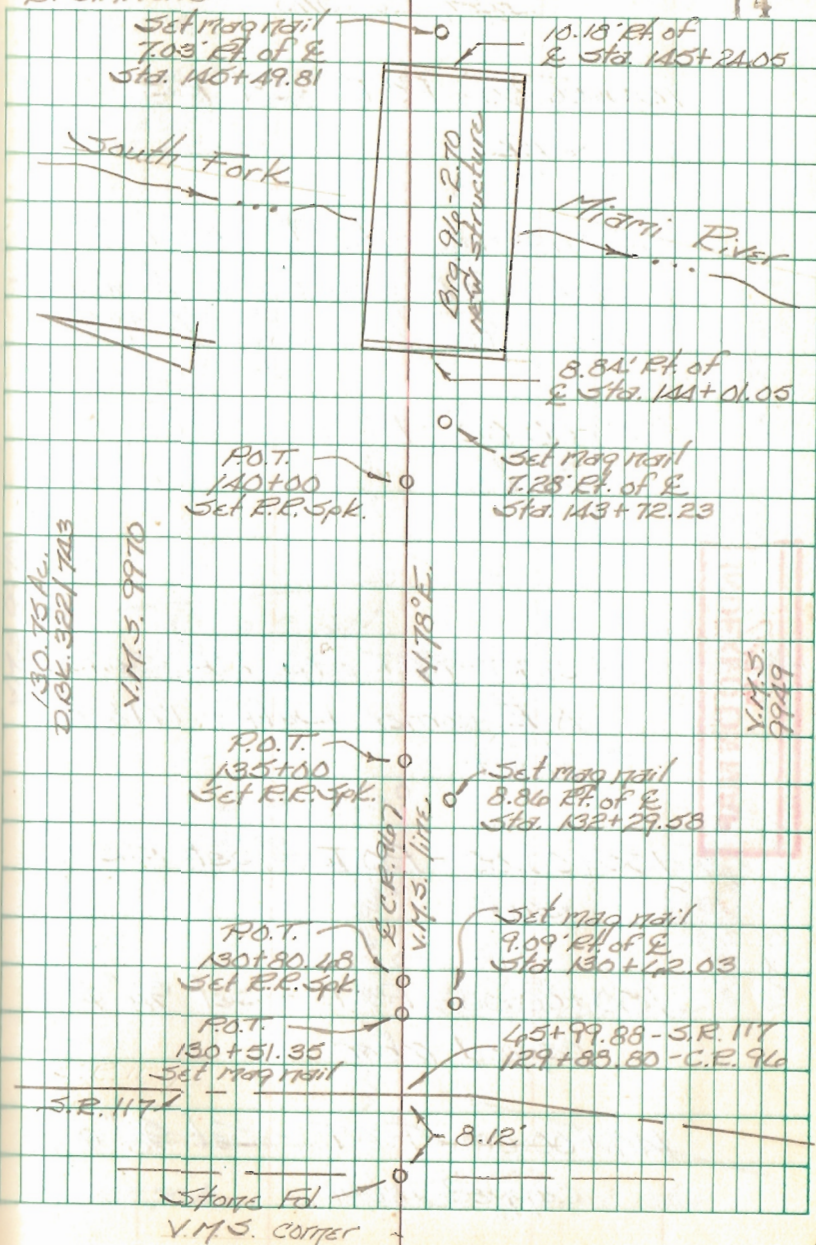
130+51.35 - P.O.T. - set mag
 nail

129+88.80 - (straight line mileage
 2.56) - Intersection of C.R. 96
 w/ of S.R. 117 - nothing found,
 nothing set - Beginning of
 this survey

C. Nichols
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 B. Simmons

March 03

14



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678

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678

Resurvey Part of C.R. 96
Richland Twp.
Logan Co., Ohio

145+00.00 - P.O.T. - Set R.R.
spike

142+65.62 - P.O.T. - Fd. R.R.
spike - N.E. corner 2.280 Ac. tract -
Ref: 1995 Lee Survey (R-9032)

140+00.00 - P.O.T. - Set R.R.
Spike

157+51.13 - P.O.T. - Fd. R.R. Spike -
N.E. corner Duff's 17 1/2 Ac.
tract

155+00.00 - P.O.T. - Set R.R.
spike

150+00.00 - P.O.T. - Set 5/8" ϕ
capped rebar

146+00.00 - P.O.T. - Set 5/8" ϕ
capped rebar

C. Nichols
C. Dill
B. Simmons
127.07 Ac.

March 03

15

8" dia. steel post -
filled w/ conc.
13.74' Lt. of R
Sta. 143+01.69

P.O.T.
145+00
Set R.R. Spk.

Set 1#19 rebar
1.59' Rt. of R
Sta. 143+11.19

Fd. cap'd rebar
0.81' Lt. of R
Sta. 143+01.59

P.O.T.
142+65.62
Fd. R.R. Spk.



51.280 Ac.

N 78° E

P.O.T.
140+00
Set R.R. Spk.

50 Ac.
O.E.V.I. R/178

Fd. cap'd rebar
0.44' Lt. of R
Sta. 153+30.38

P.O.T.
157+51.13
Fd. R.R. Spk.

P.O.T.
155+00
Set R.R. Spk.

Duff
17 1/2 Ac.
O.E.V.I. R/142

P.O.T.
150+00
Set 5/8" ϕ cap'd rebar

57.08 Ac.
D.O.K. 302/178

N 73° E R. C.R. 96

P.O.T.
146+00
Set 5/8" ϕ cap'd rebar

130.75 Ac.

V.M.S. 9749

Resurvey Part of C.R. 96
Richland Twp.
Logan Co., Ohio

180+00.00 - P.O.T. - Set
R.R. spike

175+00.00 - P.O.T. - Set
R.R. spike

170+00.00 - P.O.T. - Set
R.R. spike

165+00.00 - P.O.T. - Set
R.R. spike

C. Nichols
C. Dill
B. Simmons

March 03

16

130.45
Ac.

P.O.T.
180+00
Set R.R. spike

Set mag nail
2.19' Pt of R
Sta. 180+44.89

Fed. 1 3/4" iron
4.69' Pt of R
Sta. 179+68.12

1.26 Ac.

Brq. 96-3.33

87.50 Ac.
D.R. 240/37

Y.M.S. 9970

Y.M.S. 9977

N. 78° E.

P.O.T.
175+00
Set R.R. spike

Y.M.S. 9949

P.O.T.
170+00
Set R.R. spike

Fed. 3/4" iron
7.00' Pt of R
Sta. 148+19.77

127.07 Ac.

40 Ac.

P.O.T.
165+00
Set R.R. spike

Resurvey Part of C.R. 96
Richland Twp.
Logan Co., Ohio

196+25.80 - Fd. stone w/
monument box - V.M.S. corner -
End of this survey

195+00.00 - P.O.T. - Set R.R.
spike

190+00.00 - P.O.T. - Set R.R.
spike

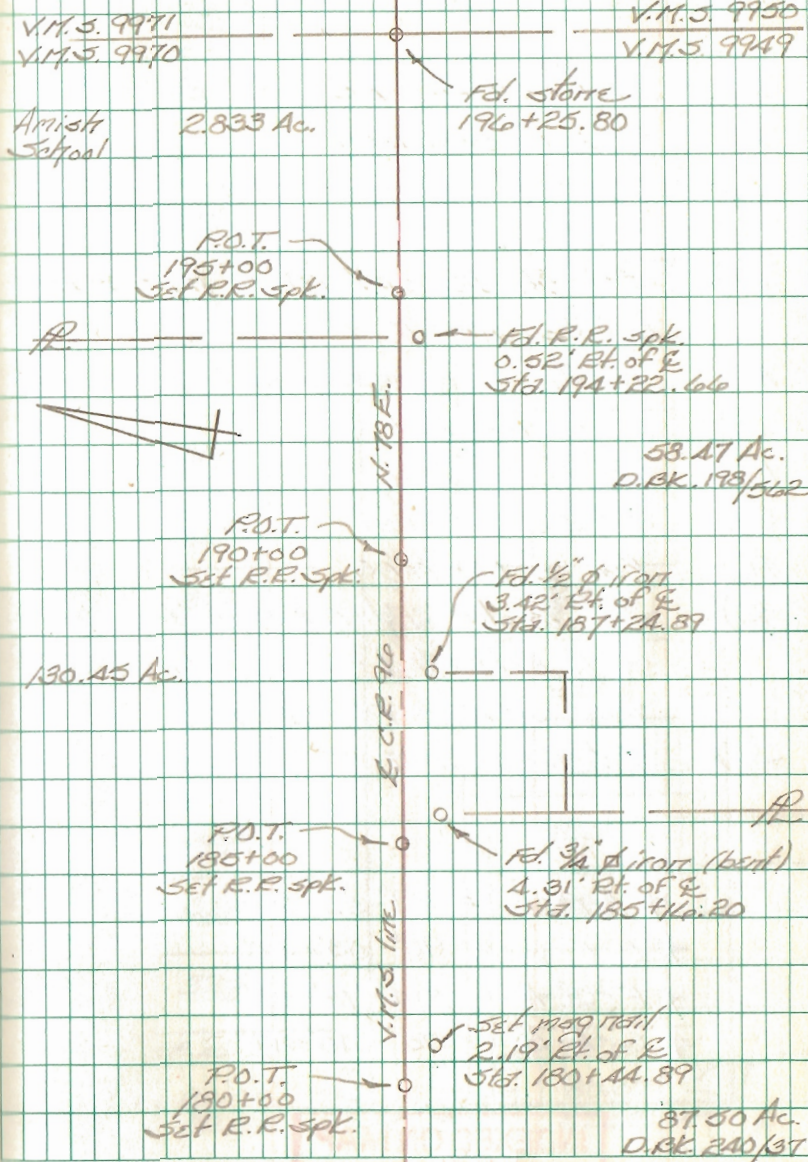
185+00.00 - P.O.T. - Set R.R.
spike

180+00.00 - P.O.T. - Set R.R.
spike

C. Nichols
C. Dill
B. Simmons

March 03

17



Alley Survey
Orchard Island
Washington Twp., Logan Co., Ohio

Pt. Description

- A.) Fd. 2" I.D. pipe
 B.) Fd. 1" dia. iron
 C.) Fd. $\frac{5}{8}$ " hexagonal iron -
 0.23' Lt. of line B-F
 D.) Set $\frac{5}{8}$ " dia. cpd. rebar half way
 between pts. B & F on line B-F.
 E.) Fd. $\frac{5}{8}$ " hexagonal iron - 0.05'
 Lt. of line B-F.
 F.) Fd. 1" dia. iron
 G.) Fd. $1\frac{1}{2}$ " dia. iron
 H.) Fd. $\frac{1}{2}$ " I.D. pipe
 I.) Set $\frac{5}{8}$ " dia. cpd. rebar on line
 G-H extended - Set on line half
 way between pts. A & G.
 J.) Fd. 1" dia. iron

$$\begin{aligned} \angle A-B-F &= 89^{\circ}-56'-27'' \\ \angle B-F-G &= 90^{\circ}-03'-48'' \\ \angle F-G-A &= 104^{\circ}-18'-58'' \\ \angle G-A-B &= 76^{\circ}-40'-47'' \end{aligned}$$

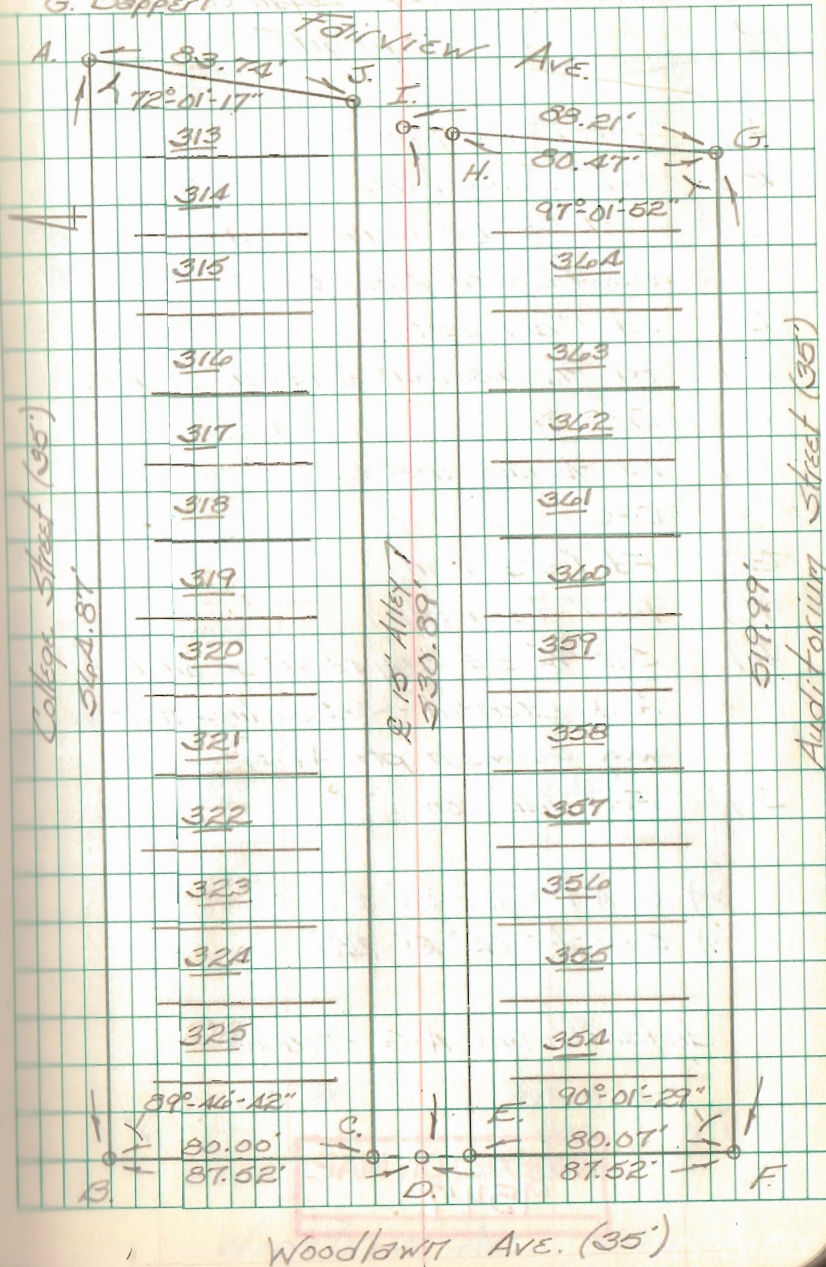
INDEXED ON MAP

4017

C. Dill
B. Simmons
G. Dappert

JAN. 2004

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Alley Survey
Orchard Island
Washington Twp., Logan Co., Ohio

- | Pt. | Description |
|-----|---|
| A.) | Fd. 1" dia. iron |
| B.) | Fd. 2" I.D. pipe |
| C.) | Set $\frac{5}{8}$ " dia. capped rebar half way between pts. B & D on line B-D |
| D.) | Fd. 1" dia. iron |
| E.) | Fd. $\frac{3}{4}$ " dia. iron 0.13' Rt. of line D-G. |
| F.) | Fd. $\frac{3}{4}$ " dia. iron 0.09' Rt. of line D-G. |
| G.) | Fd. 1" dia. iron |
| H.) | Fd. 1" dia. iron |
| I.) | Set $\frac{5}{8}$ " dia. capped rebar on line A-J extended - Set on line half way between pts. A & G. |
| J.) | Fd. 1" dia. iron |

$\angle G-A-B = 96^{\circ} 39' 59''$

$\angle D-G-A = 83^{\circ} 21' 28''$

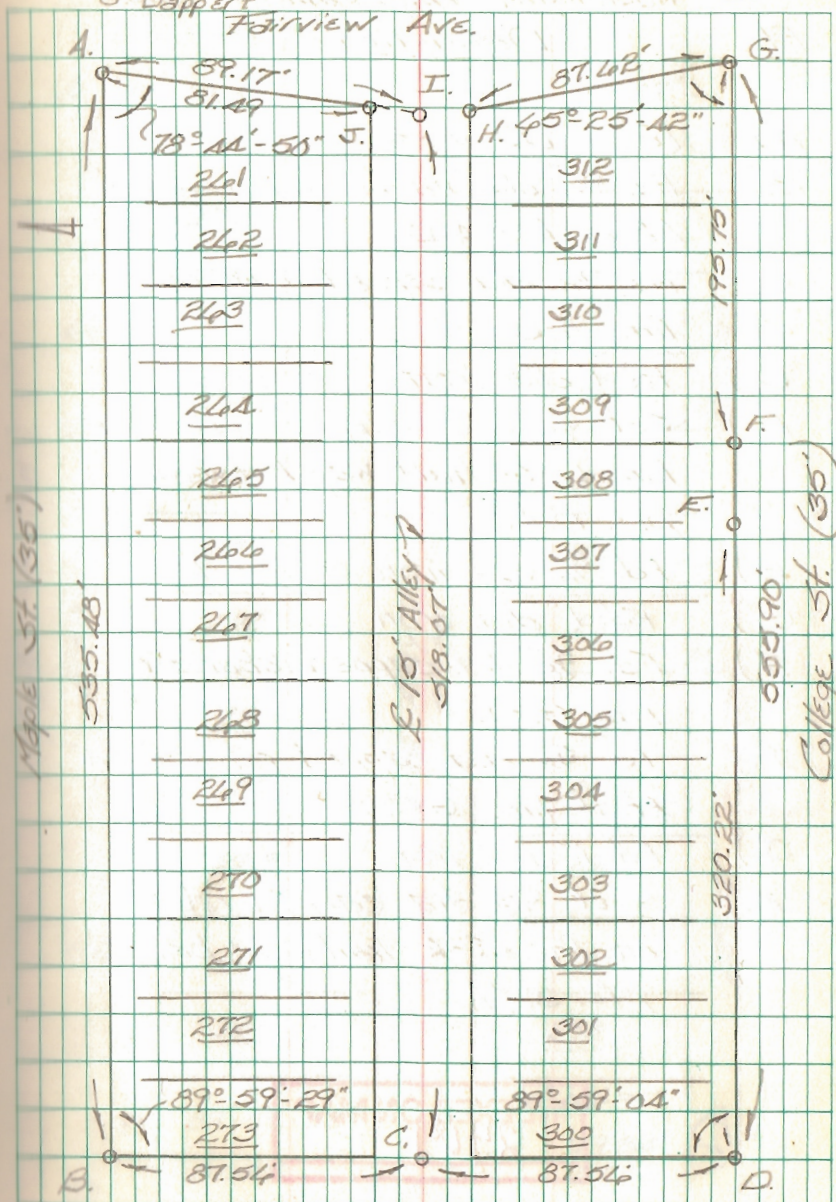
distance line A-G = 176.08'

INDEXED ON MAP
9547

C. Dill
B. Simmonds
G. Dappert

Jan. 2004

19



Woodlawn Ave. (35')

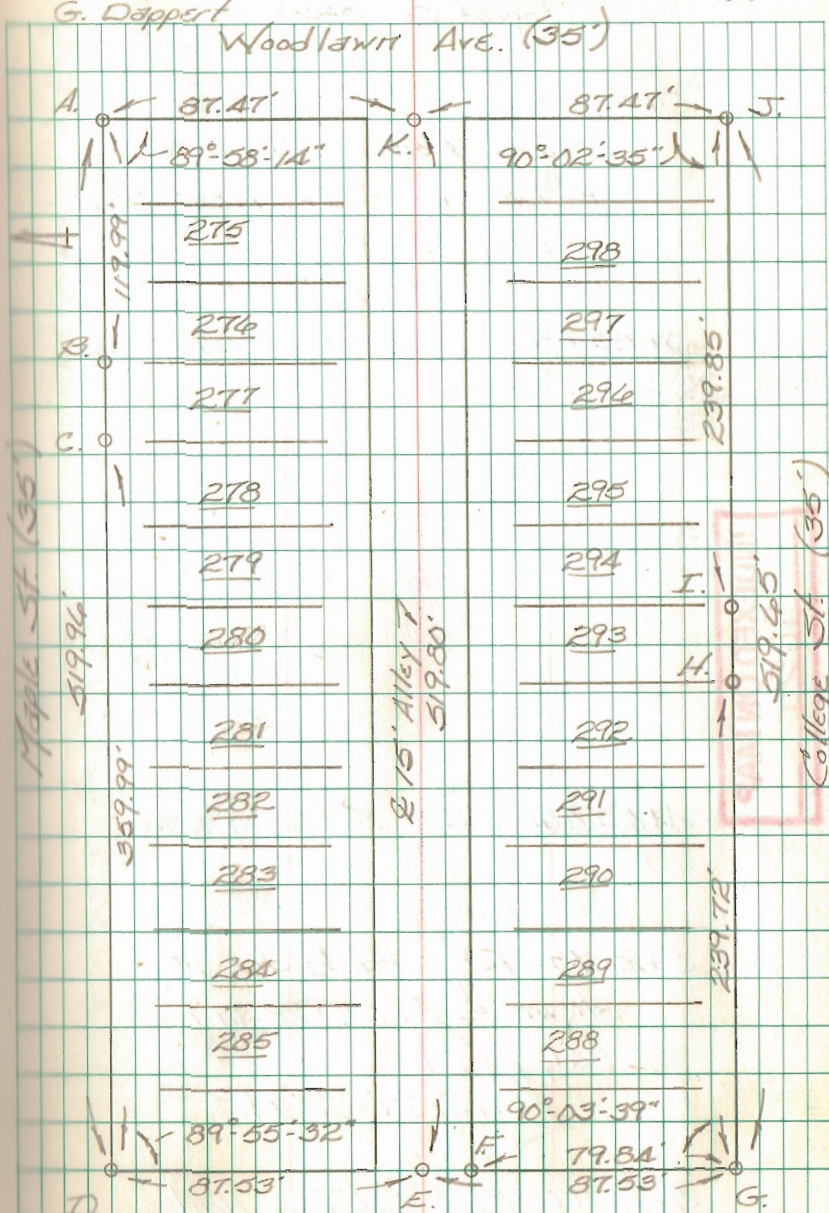
Alley Survey
Orchard Island
Washington Twp., Logan Co., Ohio

- | Pt. | Description |
|-----|---|
| A.) | Fd. 2" I.D. pipe |
| B.) | Fd. $\frac{3}{8}$ " dia. capped rebar - 0.04'
Lt. of line A-D |
| C.) | Fd. $\frac{3}{8}$ " dia. capped rebar on
line A-D. |
| D.) | Fd. 1" dia. iron |
| E.) | Set $\frac{3}{8}$ " dia. capped rebar on
line D-G. half way between
pts. D & G. |
| F.) | Fd. $\frac{3}{4}$ " dia. iron on line D-G. |
| G.) | Fd. 1" dia. iron |
| H.) | Fd. $\frac{3}{8}$ " dia. capped rebar on
line G-J. |
| I.) | Fd. $\frac{3}{8}$ " dia. capped rebar 0.04'
Lt. of line G-J. |
| J.) | Fd. 1" dia. iron |
| K.) | Set $\frac{3}{8}$ " dia. capped rebar
on line J-A half way between
pts. J & A. |

INDEXED ON MAP
2409

C. Dill
B. Simmons
G. Dappert

JAN. 2004 20



Resurvey T.R. 148
Perry Twp.
Logan Co., Ohio

0+00 - P.I. - Fd. $\frac{1}{2}$ " dia. iron -
Intersection E.C.R. 144 w/
E.T.R. 148 - Ref: F.B.K. # 561,
pg. 29. E R/W plan X-148

0+50.00 - P.O.T. - Set mag nail

At 65.66 - P.C. - Set mag nail

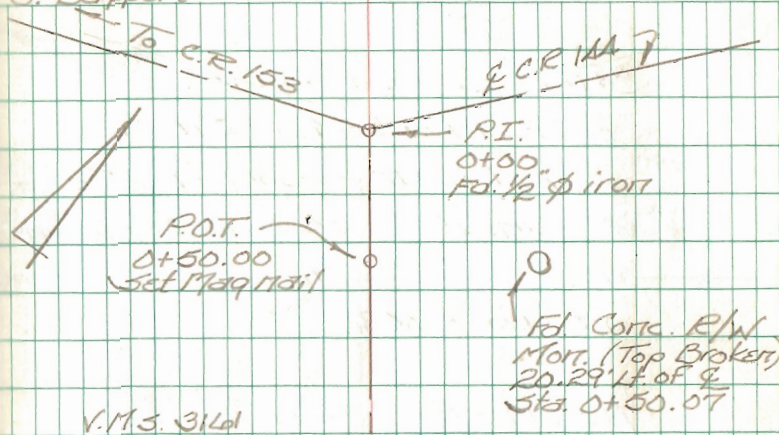
5+27.73 - P.I. - Fd. $\frac{1}{2}$ " dia. iron
shown as Sta. 5+28 in F.B.K. #
561, pg. 29
 $43^{\circ}39'32''$ Lt.

5+76.77 - P.I. - Set mag nail

C. Dill
B. Simmons
G. Dappert

4 August 04

21



Curve Data

$A = 43^{\circ}39'32''$ Lt.
 $T = 42.07'$
 $R = 101.00'$
 $L = 111.11'$
 $L.C. = 106.48'$
 $D_s = 57^{\circ}17'45''$

34.3 Ac.

39.66 Ac

P.I.
5+27.73
Fd. $\frac{1}{2}$ " ϕ iron
 $43^{\circ}39'32''$ Lt.

P.T.
5+76.77
Set Mag Nail

1.5 Ac.

INDEXED ON MAP
9654

RESURVEY T.R. 148
Perry Twp.
Logan Co., Ohio

8+11.27 - End of T.R. 148 -
(Ref: Plan X-148) - Set $\frac{5}{8}$ " dia.
capped rebar on split of R/W
monument bases found: - shown
as Sta. 8+25 (tangent stationing)
on plan X-148.

7+67.19 - P.O.T. - Set $\frac{5}{8}$ " dia.
capped rebar 252.50' from
the P.I. as shown on page 29
of F.BK. # 561 & plan X-148.

5+76.77 - P.T. - Set Mag Nail

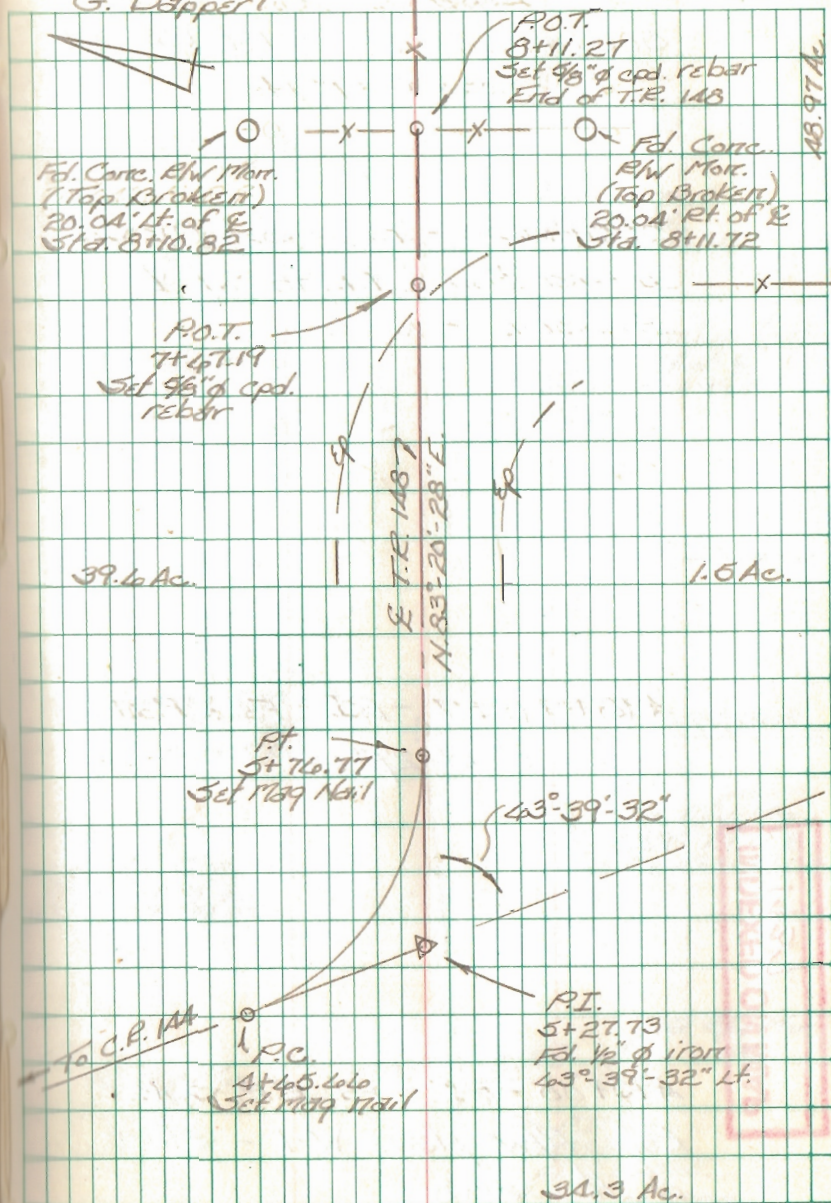
5+27.73 - P.I. - Fd. $\frac{1}{2}$ " ϕ iron -
shown as Sta. 5+28 in
F.BK. # 561, pg. 29
 $43^{\circ}-39'-32''$ Lt.

At 45.666 - P.C. - Set Mag Nail

C. Dill
B. Simmons
G. Dappert

4 August 04

22



Intersection T.R. 95 w/ S.R. 366
 Richland Twp.
 Logan Co., Ohio

505+99.66 - P.I. - Fd. R.R. Spk.

$0^{\circ}33'57''$ Lt.

505+74.40 - P.I. - Set R.R. Spk. -

Intersection & T.R. 95 w/ &

S.R. 366 - No angle

498+99.57 - P.I. - Fd. R.R. Spk.

$0^{\circ}10'27''$ Rt.

INDEXED ON MAP
 1787

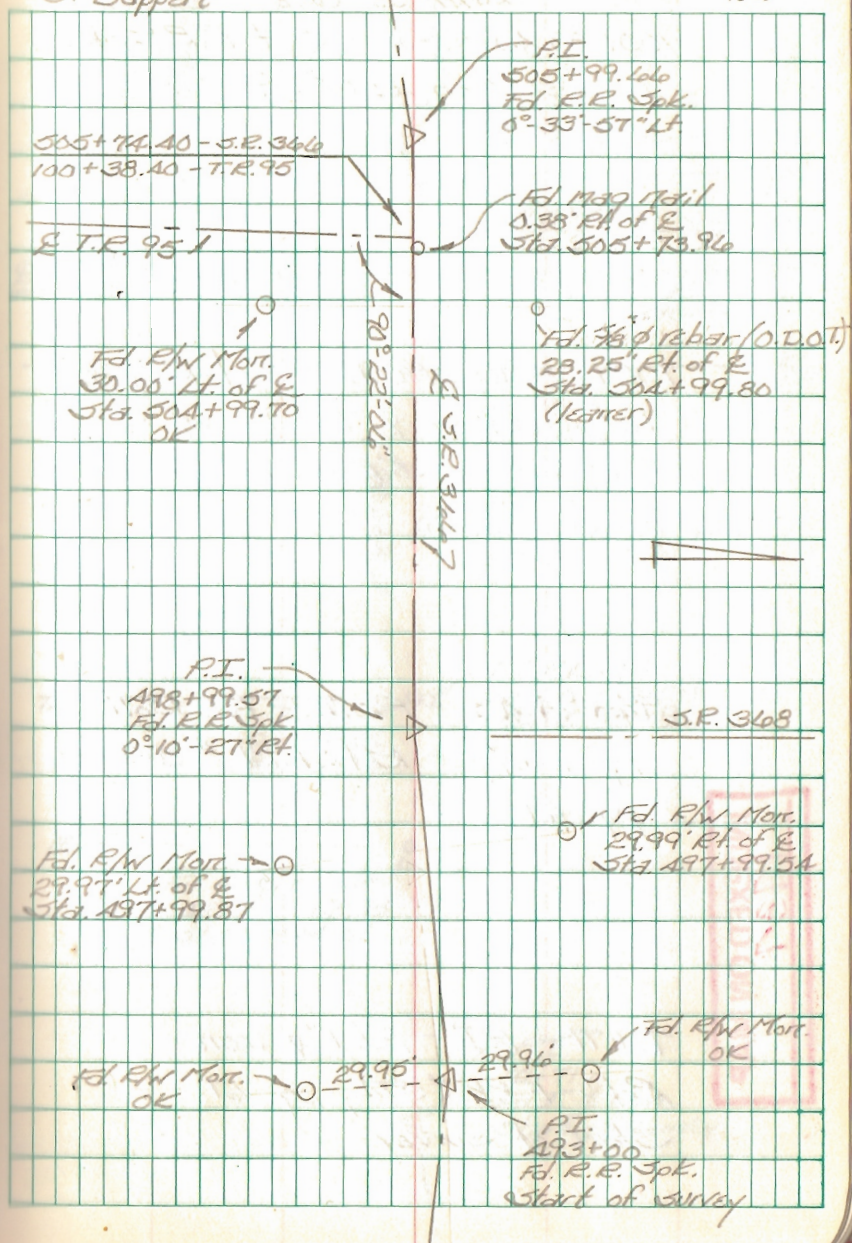
493+00 - P.I. - Fd. R.R. Spk. -

Ref: R/W plans W-1 - Start
 of this survey

C. Dill
 B. Simmons
 G. Dappert

Oct. 04

23



Intersection T.R. 95 w/ S.R. 366
Richland Twp.
Logan Co., Ohio

100+38.40 - P.I. - Set R.R. Spk. -

Intersection & T.R. 95 w/ &

S.R. 366

100+08.40 - P.O.T. - Set R.R. Spk. -

Intersection & T.R. 95 w/ S.

R/W line of S.R. 366

96+94.45 - P.O.T. - Fd. Bolt

(top bent) - Ref: F.B.K. # 57A;

pg. 49.

71+71 - P.I. - Fd. 1" dia iron -

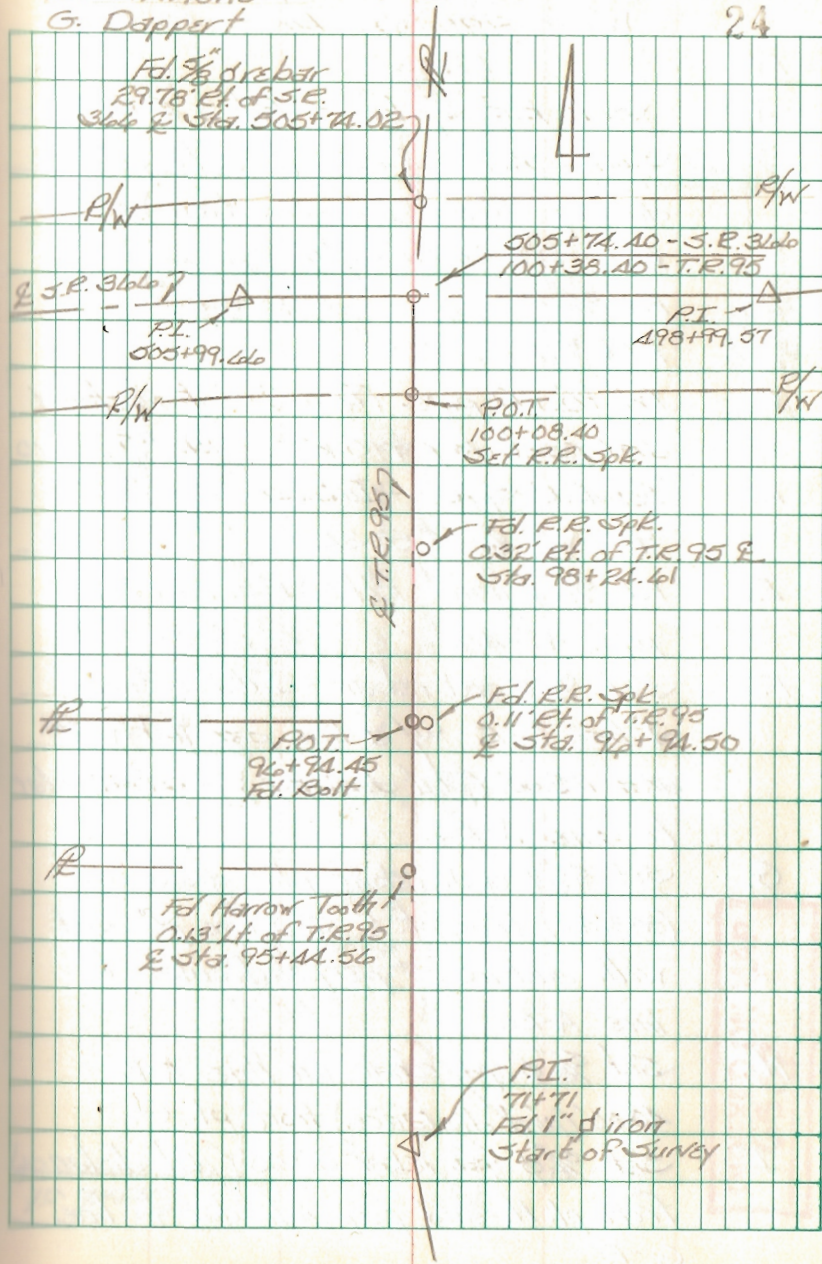
Ref: F.B.K. # 57A; pg. 67 -

Start of survey

C. Dill
B. Simmons
G. Dappert

Oct. 04

24



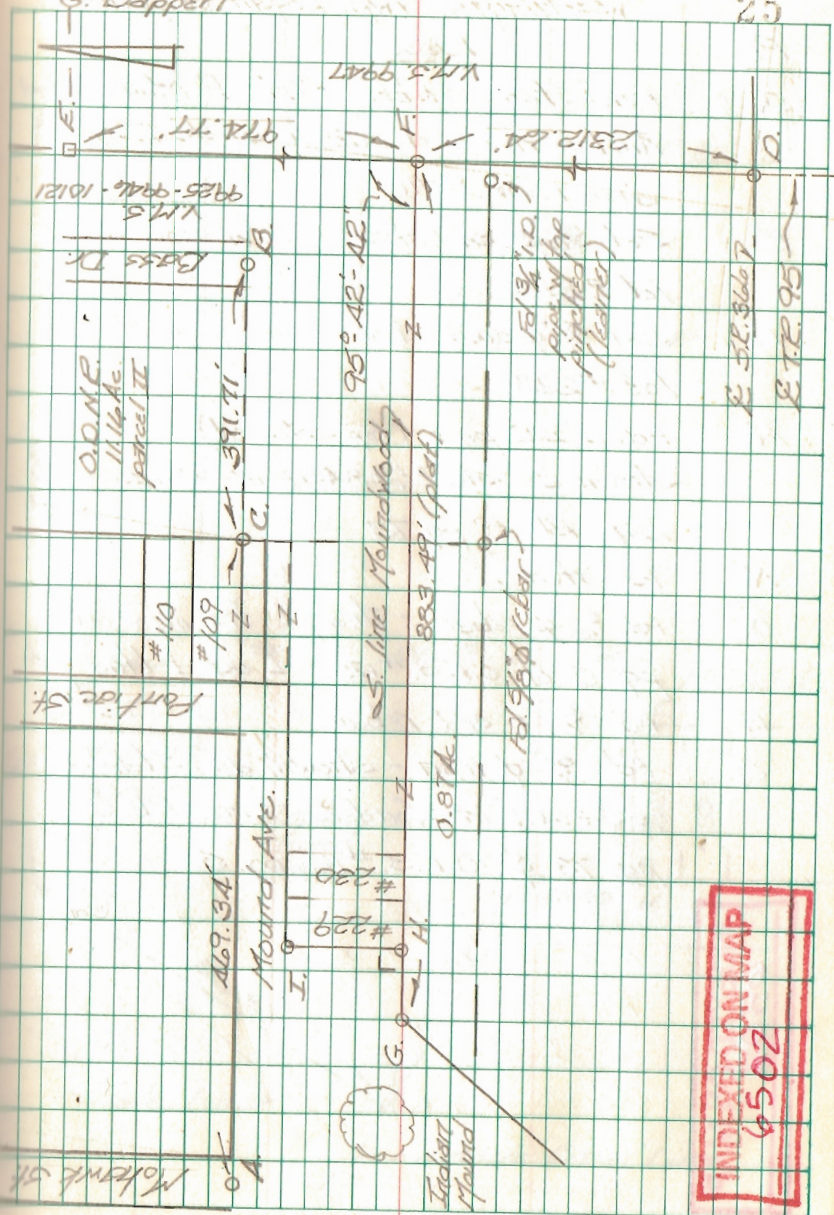
Indian Mound Park
Moundwood Allotment
Washington Twp., Logan Co., Ohio

- Pt. Desc.
- A. Set R.R. Spike - Fd. a R.R.
Spike here in 1989 (destroyed during street construction)
Ref: O.K.S. F.Bk. #12, pg. 5.
- B. Fd. $\frac{3}{4}$ " I.D. pipe - Ref: O.K.S. F.Bk. #11, pg. 57
- C. Fd. $1\frac{1}{2}$ " I.D. pipe (bent) - straightened and reset as per O.K.S. F.Bk. #7, pg. 10
- D. Set R.R. spike - Intersection $\frac{1}{2}$ T.R.
95 W/ $\frac{1}{2}$ S.R. 3666
- E. Fd. $\frac{5}{8}$ " ϕ iron - Ref: O.K.S. F.Bk. #7, pgs. 43-46
- F. Set $\frac{5}{8}$ " ϕ cpd. rebar - Intersection of line D-E w/ a line parallel with and 115.00' (plat distance) perpendicular to line A-B.
- G. Set $\frac{5}{8}$ " ϕ cpd. rebar plat distance (383.49') from pt. F on a line parallel with and 115.00' perpendicular to line A-B.
- H. Set $\frac{5}{8}$ " ϕ cpd. rebar on line A-B 40.00' (plat distance) from pt. G.
- I. Set $\frac{5}{8}$ " ϕ cpd. rebar 80.00' (plat distance) from pt. H. and perpendicular to line G-F.

C. Dill
B. Simmons
G. Dappert

Oct. 04

25



INDEXED ON MAP
6502

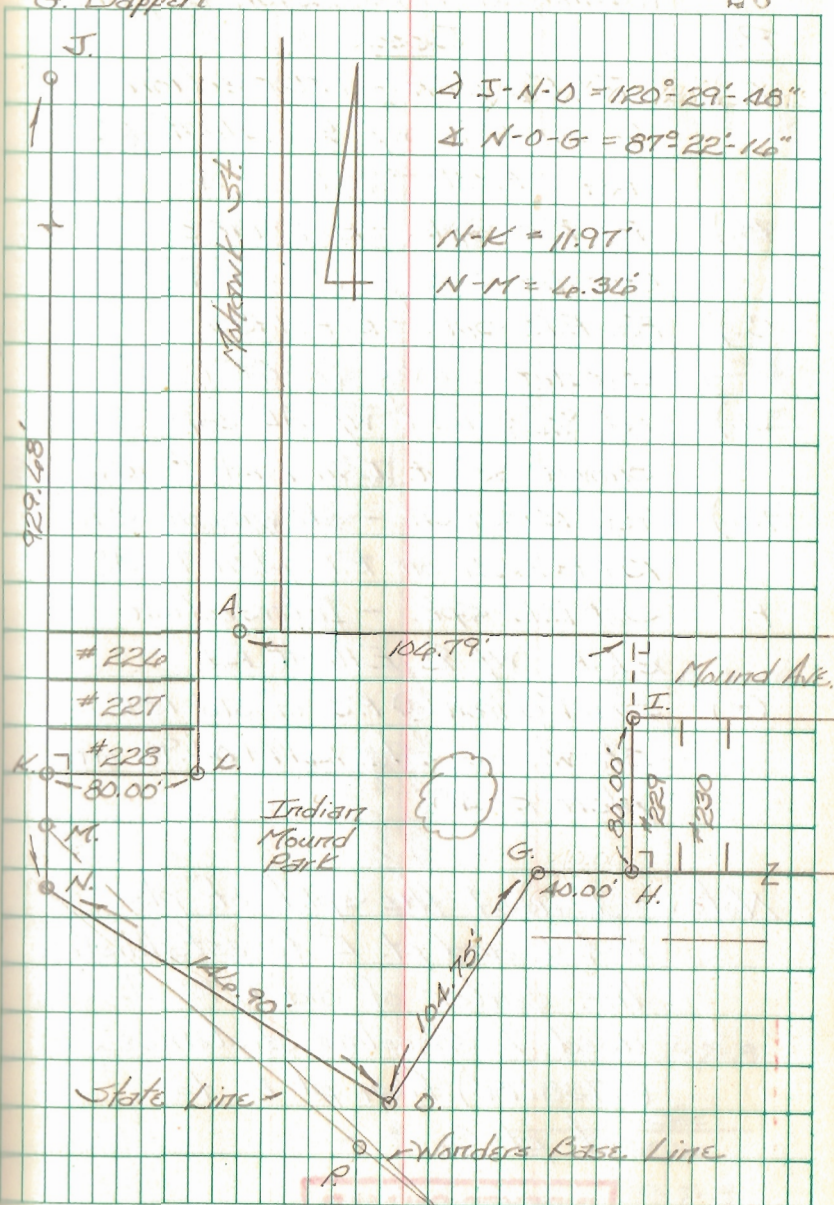
Indian Mound Park
Moundwood Allotment
Washington Twp, Logan Co., Ohio

- Pt. Desc.
- J. Fd. Stone - Ref. Plat of Moundwood Allotment (plat cab. A, slide 231) also F.O.K. #711
- K. Set $\frac{3}{8}$ " ϕ cpd. rebar - S.W. cor. of lot #228
- L. Set $\frac{3}{8}$ " ϕ cpd. rebar - S.E. cor. of lot #228
- M. Fd. 2" I.D. pipe (top splayed) - shown as sta 86+84.6 in Wonders Line Bk. 5, pg. 73
- N. Fd. stone
- O. Fd. $\frac{3}{8}$ " ϕ rebar - This pt. fit info on pg. 5 of O.K.S. #12 - I used this pt.
- P. Fd. $\frac{5}{8}$ " ϕ cpd. rebar
- Q. Fd. $\frac{3}{8}$ " ϕ iron - shown as sta 85+14.9 in Wonders Line Bk. 5, pg. 73 & O.K.S. #12, pg. 5.

C. Dill
B. Simmons
G. Dappert

Oct. 04

26



INDEXED ON MAP
0502

Intersection old R.R. w/ Elliot Rd.
Russells Point
Washington Twp., Logan Co., Ohio

- | Pt. | Desc. |
|-----|---|
| A.) | Fd. 1" ϕ iron - Intersection
E S.R. 708 w/ E Elliott Rd. -
Ref: F.Bk. # 709, pg. 4 |
| B.) | Fd. R.R. Spk. - Ref: 1983
Geeslin Survey (R-4909) |
| C.) | Fd. R.R. Spk. - Ref: 1983
Geeslin Survey (R-4909) |
| D.) | Fd. $\frac{3}{4}$ " ϕ iron w/ AL cap -
shown as pt. I in F.Bk. # 709, pg. 5 |
| E.) | Fd. R.R. iron - shown as Sta.
1579+46.7 on R.R. plan R-AB |
| F.) | Set R.R. Spk. - Intersection
E R.R. w/ E Elliott Rd. |
| G.) | Set 1" ϕ iron @ P.C. of old R.R. -
shown as Sta. 1617+04.98 on
plan R-AB |

Note: I used the split of pts.
B & C and pt. E to establish
the center of old R.R. I
used L. Geeslin's distance
(3738.79') from pt. E to
set pt. G.

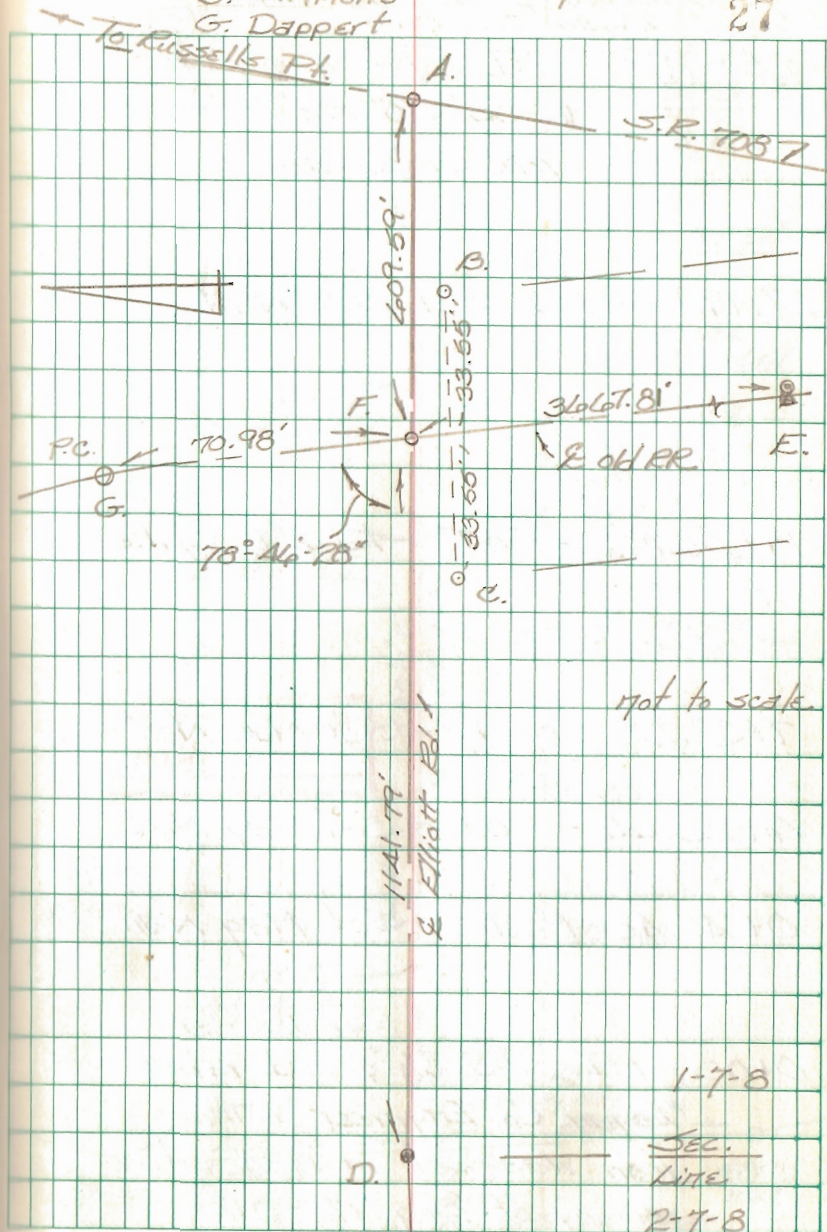
INDEXED ON MAP

8977

C. Dill
B. Simmons
G. Dappert

August 05

27



C.R. 173
Liberty & Morrow Twps.
Logan Co., Ohio

28+49.97 - P.I. - Fd. $\frac{3}{4}$ " ϕ iron

$90^{\circ}05'50''$ Rt.

Note curve data

27+19.97 - P.C. Set Mag Nail

19+50.82 - P.O.T. - Fd. R.R. Spike

7+32.48 - P.O.T. - Set Mag Nail

4+22.46 - P.O.T. - Set Mag Nail

0+40.48 - P.O.T. - Set Mag Nail

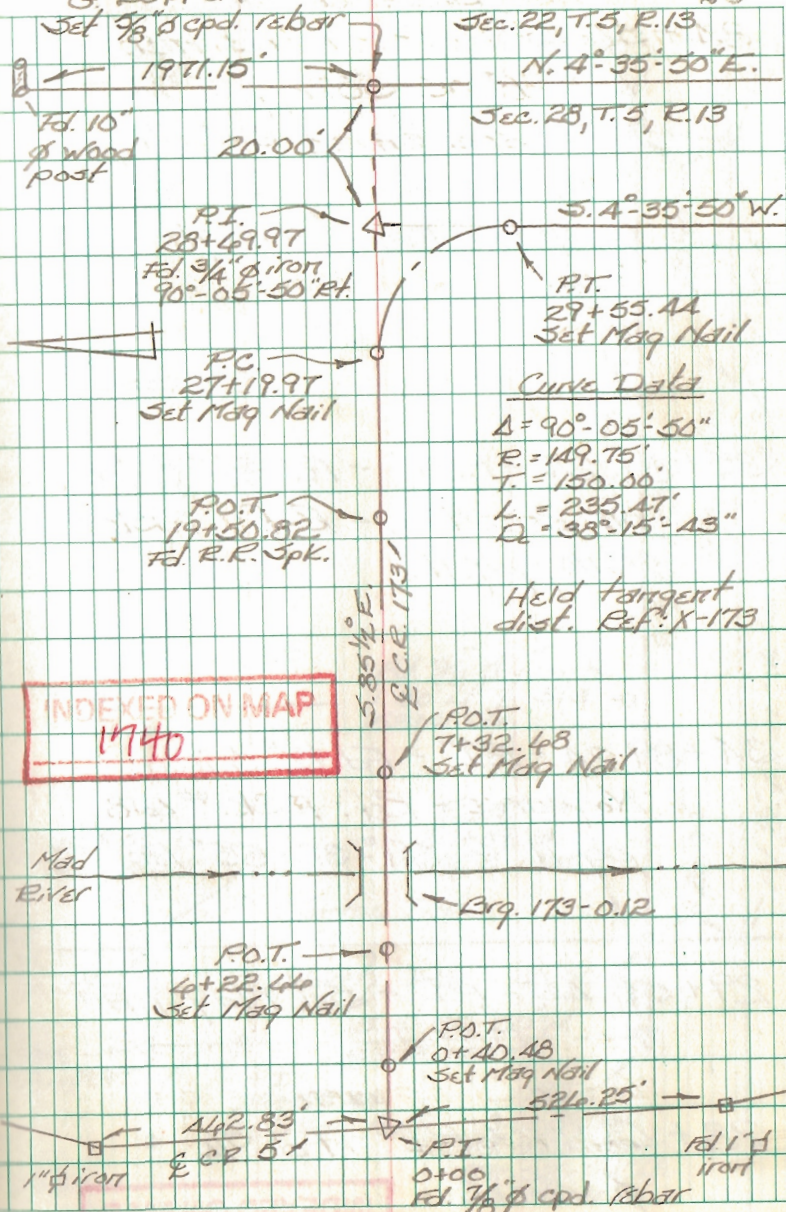
0+00 - P.I. - Fd. $\frac{7}{8}$ " ϕ cpd. rebar

"Logan Co. Engineer". This
iron was set in 1984 site
survey of Brq. 173-0.12.

C. Dill
B. Simmons
G. Dappert

Aug. 05

28



C.R. 173
Liberty & Monroe Twp.
Logan Co., Ohio

84+56.50 - P.I. - Fd. Hub -
Ref: F.R.K. 582, pg. 7B -
Intersection of C.R. 17
w/ of C.R. 173 - Set $\frac{5}{8}$ "
of cpd rebar through
hub.

35+09.24 - P.O.T. - Fd. $\frac{5}{8}$ " ϕ iron
on sec. line - Ref: F.R.K. #
4618, pg. 11

34+89.24 - P.I. - Fd. $\frac{1}{2}$ " ϕ iron -
No curve - Ref: F.R.K. # 4618,
pg. 11 - $89^{\circ}-32'-55"$ Lt.

29+55.44 - P.T. - Set Mag nail

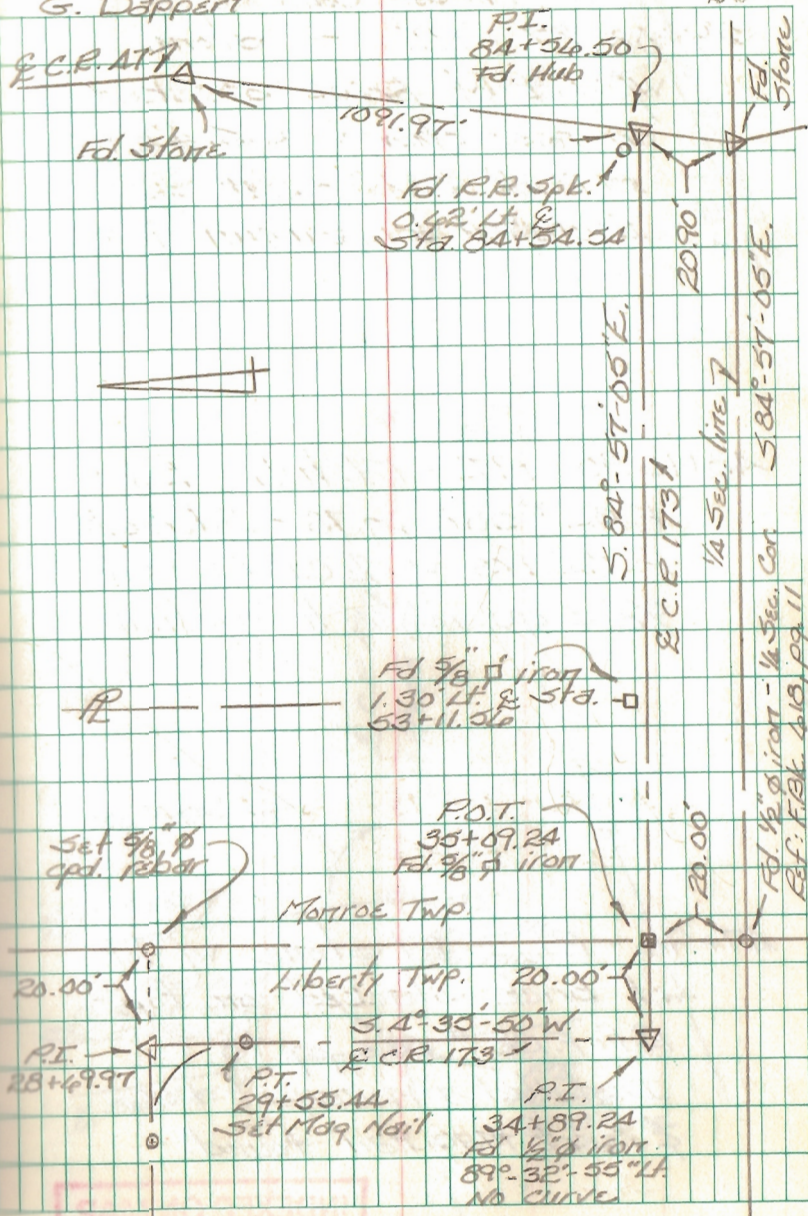
28+69.97 - P.I. - Fd. $\frac{3}{4}$ "
 ϕ iron

INDEXED ON MAP
1740

C. Dill
B. Simmons
G. Dappert

Aug. 05

29



Intersection C.R. 173 w/ C.R. 47
Morros Twp.
Logan Co. Ohio

59+08.87 - P.I. - Fd. stone
w/ lots of brick stacked
on top - shown as Sta. 59+09
in F.R.K. 582, pg. 78 -
Installed a monument box

48+14.90 - P.I. - Fd. hub - Ref:
F.R.K. # 582, pg. 78 - Intersection
E C.R. 173 w/ E C.R. 47 - Set
3/8" ϕ cpd. rebar through hub.

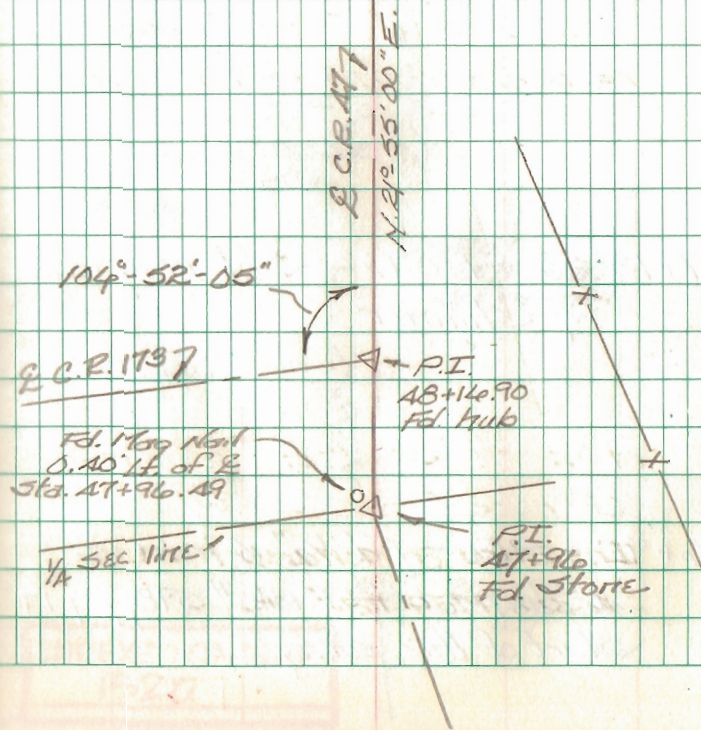
47+96 - P.I. - Fd. stone w/ lots
of brick stacked on top -
Ref: F.R.K. # 582, pg. 78 -
Installed a monument box
& reset mag nail found.

INDEXED ON MAP
1740

C. Dill
B. Simmons
G. Dappert

Aug. 05

Aug large hole
in this area
in search of
a hub - no luck



C.R. 1
Hillcut - Gurntown Rd. Project
Liberty-Lake Twp. - Logan Co., Ohio

271+79.51 - P.I. - Set 1" ϕ iron -
intersection C.R. 1 w/ C.R. 29 -
Installed monument box -
nothing to angle

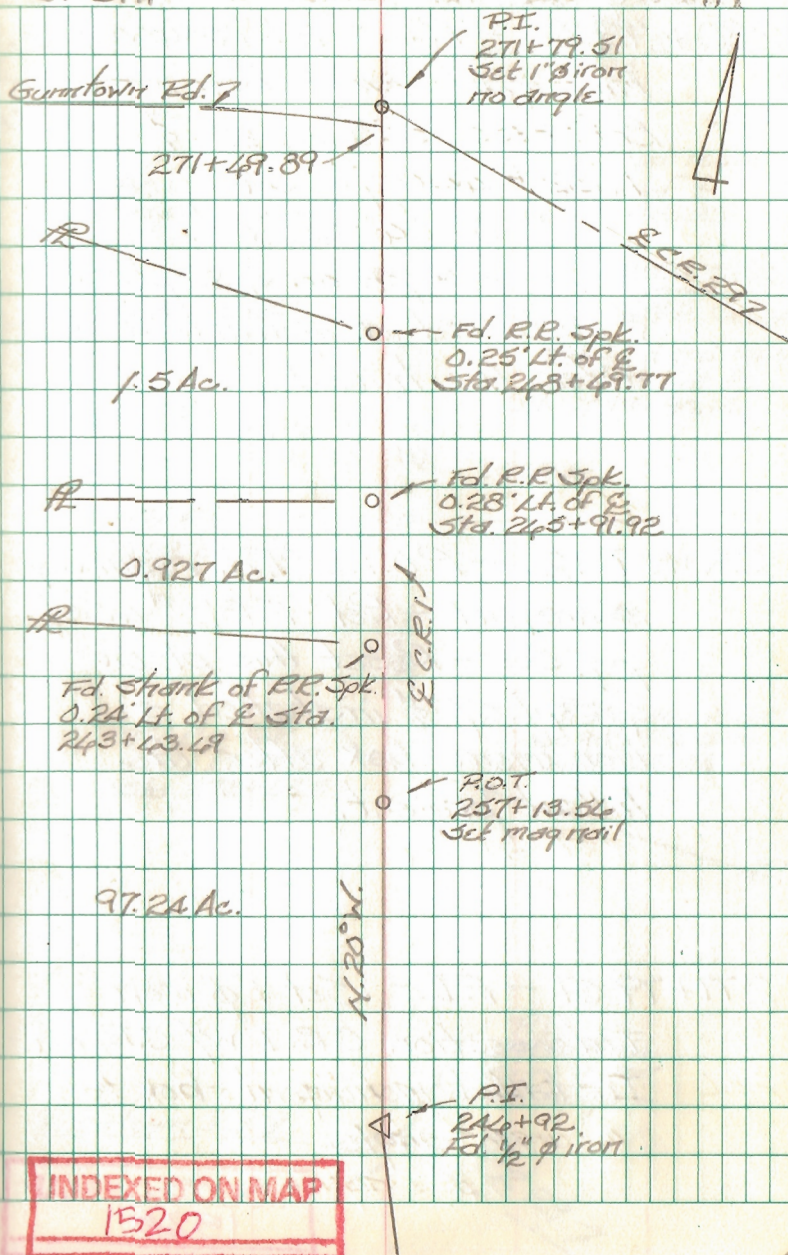
271+69.89 - P.I. - nothing set -
Intersection $\&$ C.R. 1 w/
 $\&$ Gurntown Rd.

257+13.56 - P.O.T. - Set mag nail
w/ shinner

246+92 - P.I. - Fd. $\frac{1}{2}$ " ϕ iron \approx
4" deep - Ref: F.B.K # 598, pg. 19 -
Start of this survey

B. Simmons
G. Dappert
C. Dill

Aug. - Sept. 07



C.R. 1
Hillcut - Guntown Rd. Project
Liberty - Lake Twp. - Logan Co., Ohio

280+79.00 - P.I. - Fd. resurvey

monument over stone -

Ref: F.B.K. # 598, pg. 22 &

F.B.K. # 460, pg. 57

0°-04'-55" Rt.

reset this pt. on 4 Sept. 07

& installed a monument box

after the hillcut project.

280+09.42 - P.O.T. - Fd. resurvey

monument - Ref: F.B.K. # 460,

pg. 58 - Reset this pt. on

4 Sept. 07 & installed a

monument box after the

hillcut project.

271+79.51 - P.I. - Set 1" ϕ iron

Intersection C.R. 1 w/ C.R. 29 -

Installed monument box -

turn no angle

INDEXED ON MAP

1520

Aug. - Sept. 07

Lake Twp

Sec. 27-A-14

Sec. 24-A-14

P.I.

280+79.00

Fd. resurvey mon.

0°-04'-55" Rt.

P.O.T.

280+09.42

Fd. resurvey mon.

Liberty Twp.

Fd. R.R. Spk (bank)

0.82' Rt. of \mathcal{E}

Sta. 275+08.03

Fd. R.R. Spk

0.94' Rt. of \mathcal{E}

Sta. 273+48.11

Guntown Rd. 7

271+49.89

P.I.

271+79.51

Set 1" ϕ iron

170 angle

C.R. 29.7

1.539 Ac.

1.084 Ac.

0.9 Ac.

Fd. 3/4" i.d. pipe 32

in mort. box

146' Rt. of \mathcal{E} Sta.

280+79.94

Sec. pg. 34

Fd. 5/8" ϕ cpd. rebar

29.95' Rt. of \mathcal{E}

Sta. 279+95.33

V.M.S. 5045

V.M.S. 584A

Fd. 5/8" ϕ cpd. rebar

40.92' Rt. of \mathcal{E}

Sta. 279+90.14

Fd. 3/4" cpd. rebar

30.95' Rt. of Sta.

273+58.05

C.R. 1
Hillcut - Gurnettown Rd. Project
Liberty - Lake Trip. - Logan Co., Ohio

338+16.96 - P.I. - Fd. resurvey
monument - Ref: F.B.K. # 598,
pg. 27 - End of this survey

317+32.96 - P.O.T. - Set mag
nail w/ skinner

308+55.12 - P.O.T. - Set mag
nail w/ skinner

298+05.40 - P.O.T. - Set mag
nail w/ skinner

INDEXED ON MAP
1520

280+79.00 - P.I. - Fd. resurvey
monument over stone -
0°-06'-55" Rt.

B. Simmonds
G. Dappert
C. Dill

Aug. - Sept. 07

33

Lake Ave.
T.R. 185

P.I.
338+16.96
Fd. resurvey mon.

P.O.T.
317+32.96
Set mag nail

P.O.T.
308+55.12
Set mag nail

P.O.T.
298+05.40
Set mag nail

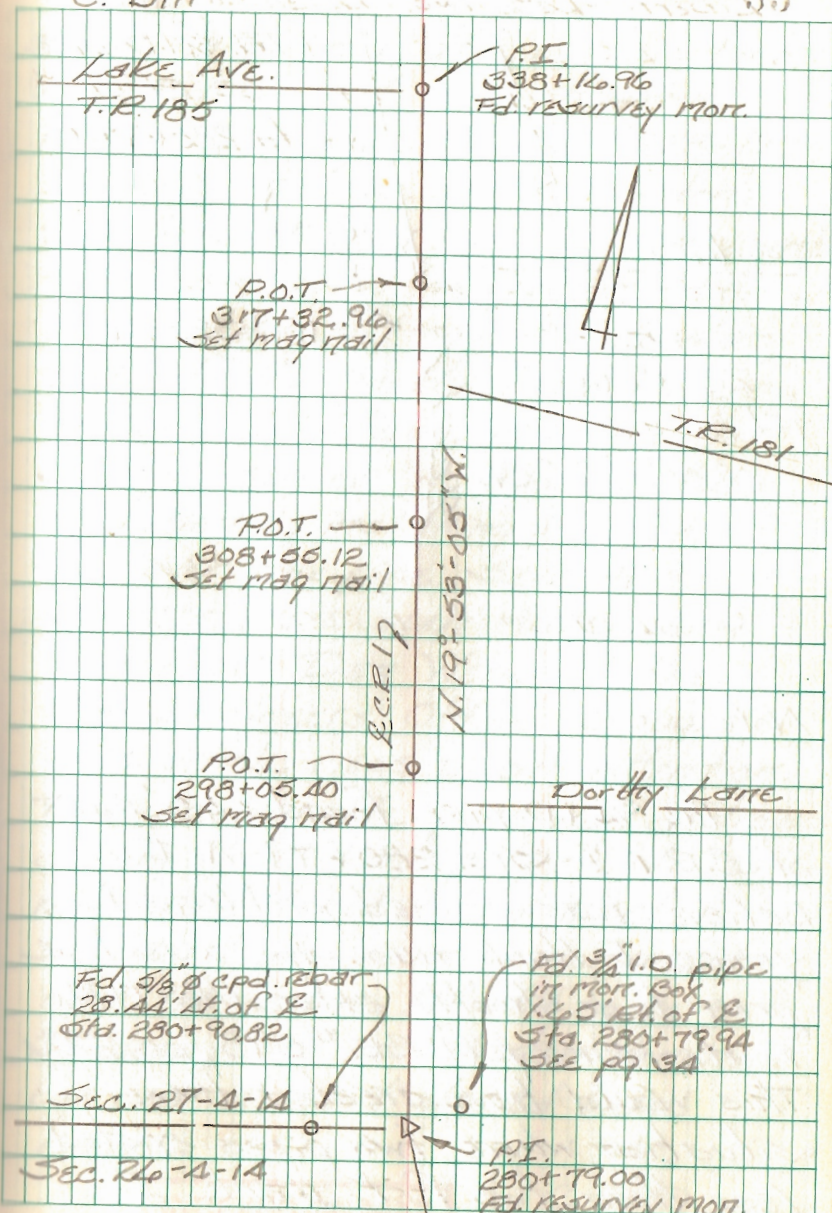
Fd. 5/8" cpd. rebar
28.44' E of E
Sta. 280+90.82

Sec. 27-A-1A

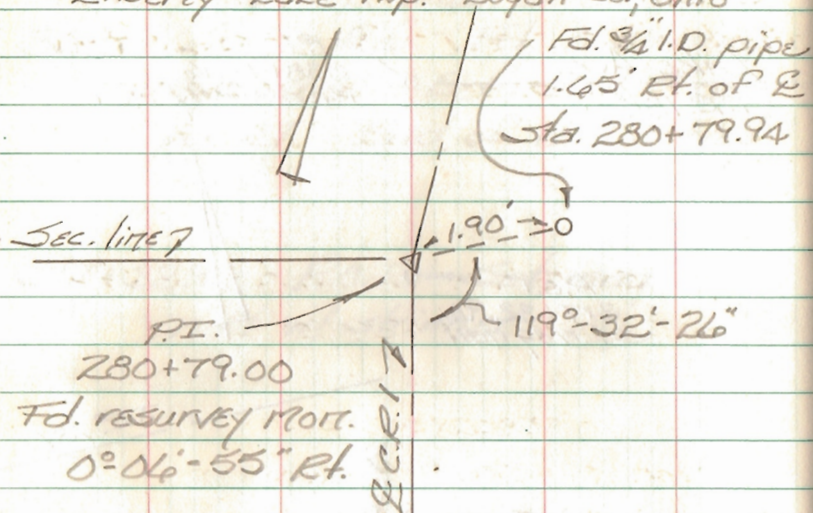
Sec. 26-A-1A

Fd. 3/4" 1.0 pipe
in mort. box
1.45' E of E
Sta. 280+79.94
SEE pg. 3A

P.I.
280+79.00
Fd. resurvey mon.
0°-06'-55" Rt.



C.R. 1
Hillcut - Gunntown Rd. Project
Liberty - Lake Twp. - Logan Co., Ohio



Note

The $\frac{3}{4}$ " I.D. pipe found 1.45' Rt. of C.R. 1 E Sta. 280+79.94 I believe has caused problems for years. I think this pipe was here prior to or shortly after the 1936 route survey (F.B.K. #598, pg. 22). This would have created the situation where two pipes existed less than two feet apart. I

B. Simmons
G. Dappert
C. Dill

Aug - Sept 07

think this pipe is the reason two lines \approx 1.4' apart are shown in F.B.K. # 402, pgs. 35 & 36 (1938-1939). In 1943, the pipe over the stone was replaced by a resurvey monument which contained no ferrous metals (undetectable w/ magnetic locators). This left this questionable pipe as the only detectable point at this section corner. We added to the confusion by installing a monument box over this pipe. Several recent surveys have been made using this pipe. Dan Weber of the City Engineers Office brought this whole mess to our attention. This questionable pipe was destroyed during the hillcut project. We have referenced it but did not reset it. We reset the resurvey monument over the stone (it still exists \approx 30" deep) and installed a monument box over it as it should have been.

INDEXED ON MAP
1520

C.D.D.

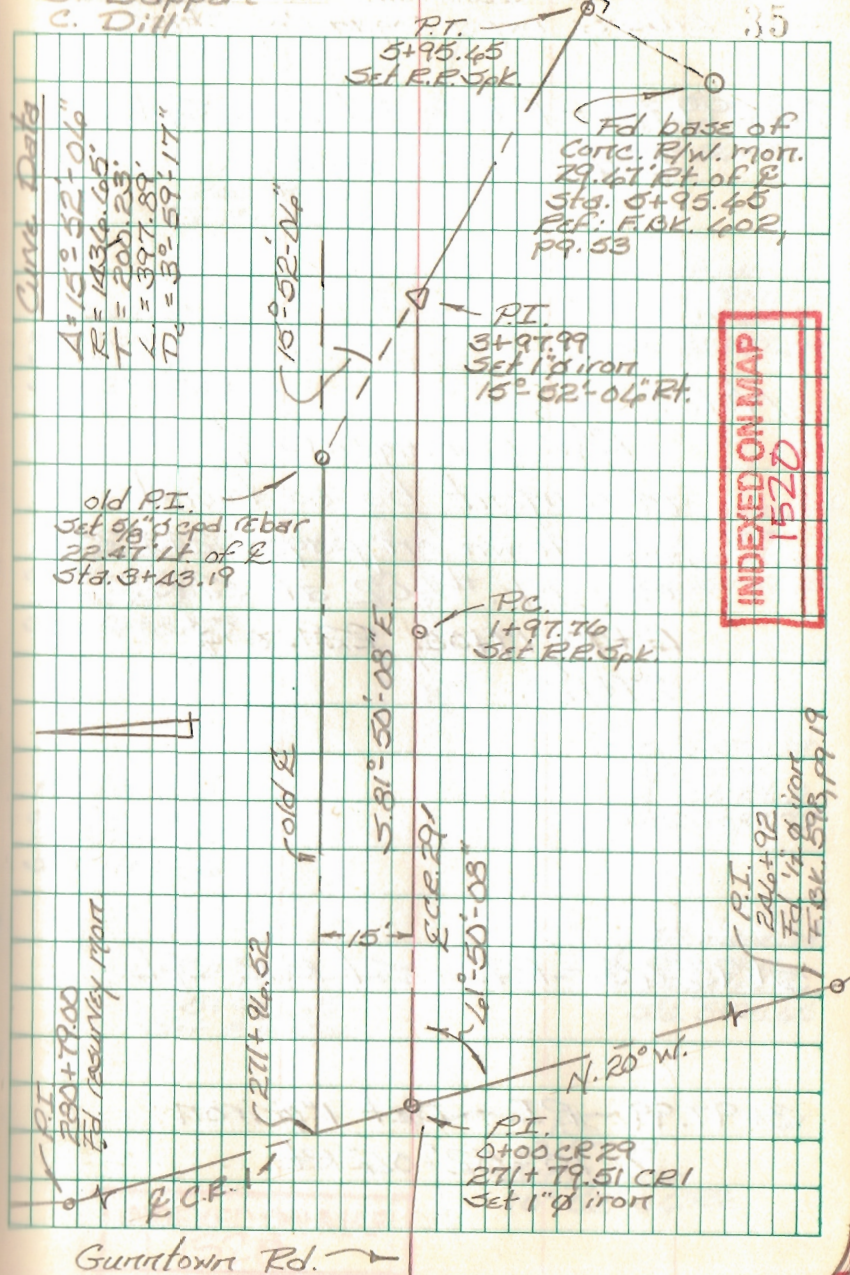
C.R. 29
 Hillcut - Guntown Rd. Project
 Liberty Twp. - Logan Co. - Ohio
 5+95.45 - P.T. - Set R.R. Spike

3+97.99 - P.I. - Set 1" ϕ iron
 15° 52' 04" Rt.

1+97.76 - P.C. - Set R.R. Spike

0+00 - P.I. - Set 1" ϕ iron -
 Intersection C.R. 1 w/ C.R. 29 -
 Installed monument box
 Ref: F.B.K. # 402, pgs. 23 & 53
 Ref: F.B.K. # 402, pgs. 23 & 53

B. Simmons Aug - Sept. 07
 G. Dappert
 C. Dill



C.R. 29
Hillcut - Gurntown Rd. Project
Liberty Twp. - Logan Co., Ohio

24+99.48 - P.I. - Fd. R.R. Spk.
End of this survey

Notes:

R/W monuments &
monument bases found
are shown on pages 24 & 25
of F.B.K. #602 at stas.
12+00, 17+00, 22+00 &
27+12.

5+95.45 - P.T. - Set R.R. Spk.

3+97.99 - P.I. - Set 1" iron
15°-52'-04" Rt.

B. Simmons
G. Dappert
C. Dill

Aug. - Sept. 07
36

P.I. →
24+99.48
Fd. R.R. Spk.

Fd. base of
R/W mort.
30.10' Rt. &
Sta. 21+87.48

Fd. base
of R/W mort.
29.74' Lt. &
Sta. 14+87.79

Fd. base
of R/W mort.
29.69' Lt. &
Sta. 11+87.67

P.T. →
5+95.45
Set R.R. Spk.

P.I. →
3+97.99
Set 1" iron
15°-52'-04" Rt.

Fd. R/W mort.
29.17' Rt. &
Sta. 26+99.49

Fd. base of
R/W mort.
30.28' Rt. &
Sta. 21+87.49

Fd. base of
R/W mort.
30.30' Rt. &
Sta. 16+87.75

Fd. base of
R/W mort.
30.04' Rt. &
Sta. 11+87.77

Fd. base of
R/W mort.
29.41' Rt. &
Sta. 5+95.45

545°-58'-02"E

C.R. 29

INDEXED ON MAP
1520

Resurvey part of T.R. 56
McArthur Twp.
Logan Co., Ohio

38+90.94 - P.I. - nothing set -
dug for stone "B" here but
no luck - there is a corrugated
metal pipe so stone may have
been removed when this was
installed - Ref: F.B.K. # 561,
pg. 48 & X-56B, Pg. 1
94°-23'-20" Lt.

25+48.82 - P.I. - Fd. stone w/
pcs. of brick - set $\frac{3}{4}$ " mag
nail straddles & set R.R.
Spk. over stone to surface.
Ref: F.B.K. 561, pg. 47 & X-56B,
pg. 1 stone "A"
0°-06'-00" Rt.

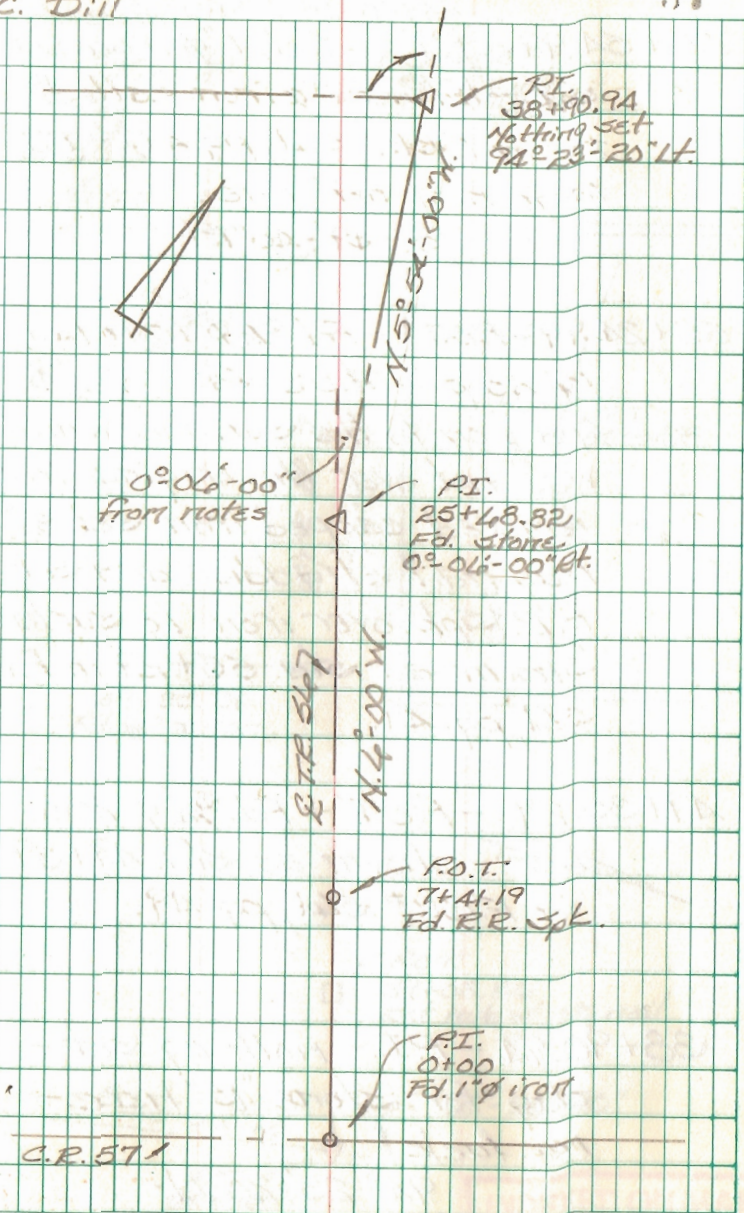
7+41.19 - P.O.T. - Fd. R.R. Spk. -
set in 1981

0+00 - P.I. - Fd. 1" ϕ iron (circa 1981)
intersection C.E. 57 W / T.R. 56

INDEXED ON MAP
1442

B. Simmons
G. Dappert
C. Dill

Sept. - Oct. 07
37



10.3.0 Resurvey part of T.R. 56
McArthur Twp.
Logan Co., Ohio

55+54.99 - P.I. - Set 1" ϕ iron bar -
did not find 1" ϕ iron called
for in F.Bk. # 56d, pg. 49. - Fd.
large nail off line.
18°-49'-40" Rk

55+24.99 - P.O.T. - Fd. $\frac{3}{4}$ " ϕ iron bar \approx
14" deep - there was a $\frac{5}{8}$ " ϕ
cpd. iron to the surface which
was not over the original iron -
removed capped iron, set $\frac{3}{4}$ "
mag nail straddles and set
R.R. Spk. over iron to surface.
shown as sta. 55+29 in F.Bk. #
56d, pg. 49.

49+35.29 - P.O.T. - Fd. $\frac{3}{4}$ " ϕ iron
bar - shown as sta. 49+39
in F.Bk. # 56d, pg. 49.

38+90.94 - P.I. - nothing set -
dug for stone "B" here -
no luck
94°-23'-20" Lt.

Sept. - Oct. 07
38

See detail

Fd. large nail
used in recent
survey
0.28' Lt. of E.
Sta. 55+54.99

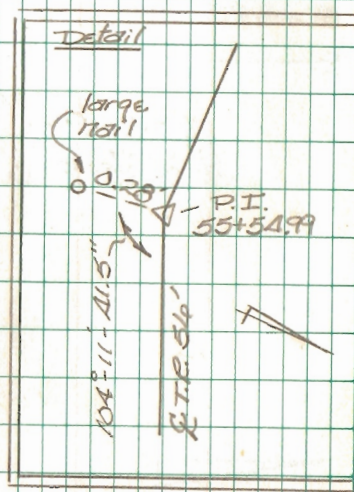
Harrod Cere.

R-X-X-X

P.O.T.
55+24.99
Fd. $\frac{3}{4}$ " ϕ iron

P.O.T.
49+35.29
Fd. $\frac{3}{4}$ " ϕ iron

P.I.
55+54.99
Set 1" ϕ iron
18°-49'-40" Et.



P.O.T.
39+08.86
Set nub w/ mag nail

N. 5°-54'-00" W.

94°-23'-20"

P.I.
38+90.94
Nothing set

INDEXED ON MAP
1442

Resurvey part of T.R. 56
McArthur Twp.
Logan Co., Ohio

T9+86.66 - P.O.T. - Set mag
nail

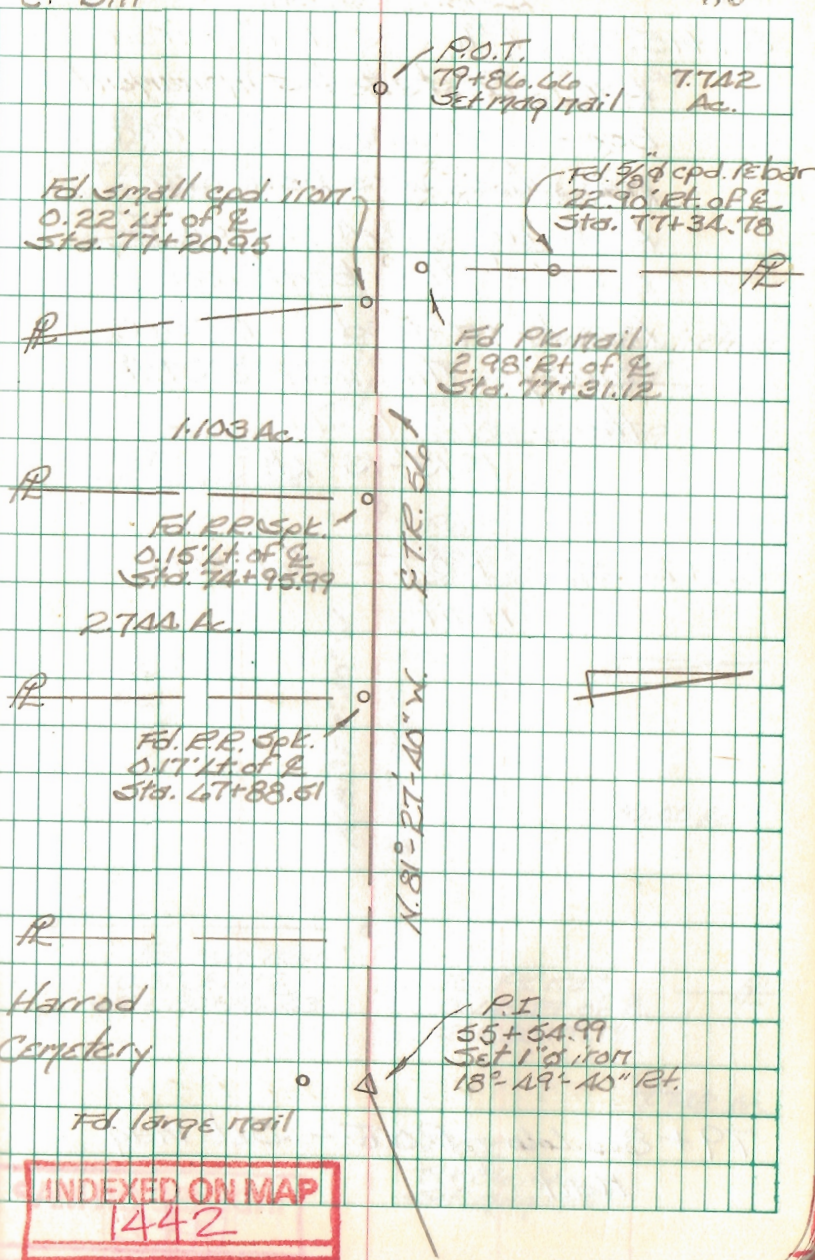
55+54.99 - P.I. - Set 1" ϕ iron
bar - Ref: F.B.K. # 561,
pg. 49

18°-19'-40" Rt.

B. Simmons
G. Dappert
C. Dill

Sept. - Oct. 07

39



RESURVEY part of T.R. 56
McArthur Twp.
Logan Co., Ohio

86+15.70 - P.I. - Set 1" ϕ iron
bar - Installed a monument
box - We found a $\frac{5}{8}$ " ϕ iron
bar which was bent over
bearing S. 44°-12'-04"E,
0.57' - This bent iron
has been used in recent
surveys. This iron is still
there.

1°-13'-13" Lt.

82+20.02 - P.O.T. - Set mag
nail

79+86.66 - P.O.T. - Set mag
nail

B. Simmons
G. Dappert
C. Dill

Sept. - Oct. 07

40

Fd $\frac{5}{8}$ " iron bar
(bent)
0.17 Lt of E
Sta. 86+15.16
4.52 $\frac{1}{2}$ Ac.

P.I.
86+15.70
Set 1" ϕ iron bar
1°-13'-13" Lt.

Fd PK nail
0.73' Pt. of E
Sta. 85+20.21

Fd mag nail
0.21' Lt. of E
Sta. 82+86.34

Cherokee Mays
Eurt
Crg. 54'-5.09

P.O.T.
82+20.02
Set mag nail

1.257
Ac.

N. 81°-27'-40" W.
E.T.R. 56-

10.00 Ac.

Fd mag nail
0.31' Lt. of E
Sta. 80+86.43

Fd PK nail
0.60' Pt. of E
Sta. 80+71.13

7.742 Ac.

P.O.T.
79+86.66
Set mag nail

INDEXED ON MAP
1442

70 Resurvey part of T.R. 56
McArthur Twp.
Logan Co., Ohio

98+83.12 - P.O.T. - nothing set -
re-created this pt. from
info on Log 33 - 10.85 R/W
plans.

97+87.94 - P.O.T. - set 5/8" ϕ
capped iron bar on E.
L.A. R/W line of USR 33

91+46.10 - P.O.T. - Fd. 1" ϕ iron
bar shown as Sta. 91+50
in F.B.K. # 561, pg. 55.

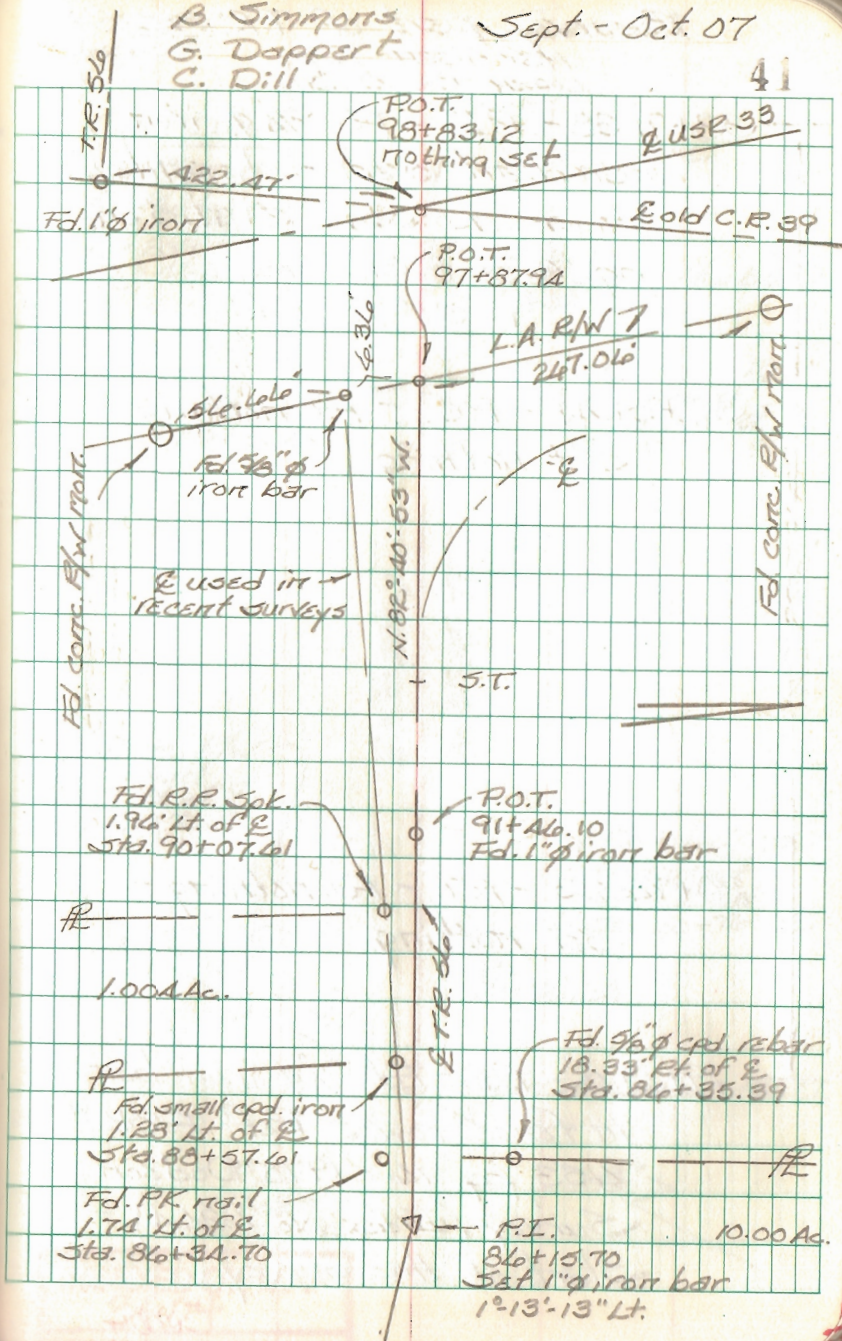
86+15.70 - P.I. - Set 1" ϕ iron
bar & installed a mort.
box.

INDEXED ON MAP
1442

B. Simmons
G. Dappert
C. Dill

Sept. - Oct. 07

41



Resurvey part of T.R. 206
Harrison Twp.
Logan Co., Ohio

33+71.38 - P.I. - Fd. $\frac{3}{4}$ " ϕ iron
bar (bent over) - straightened -
shown as Sta. 33+71.5 on
pg 76 of F.Bk. #453.
9°-37'-26" Rt.

32+51.49 - P.C. - Fd. nothing -
set nothing

1424.32'

20+76.23 - P.T. - Fd. nothing -
set nothing

19+49.0 - P.I. - Fd. $\frac{3}{4}$ " ϕ iron bar
in fence row. - Ref: F.Bk. #
453, pg. 76 - 1978 Dodson
Survey (Index No. 4226A) -
Start of this survey

Simmons
Dappert
Dill

June 08

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Curve Data

$$\Delta = 9^{\circ}-37'-26'' \text{ Rt.}$$

$$R = 1424.16'$$

$$T = 119.89'$$

$$L = 239.22'$$

$$D_c = 1^{\circ}-01'-23.2''$$

$$D_c = 1^{\circ}-01'-23.2''$$

P.T. 34+90.71
Fd. P.E. Spike

P.I. 33+71.38
Fd. $\frac{3}{4}$ " ϕ iron (top bent)
9°-37'-26" Rt.

Fd. conc. R/W
monument
20.07' E. of E.
Sta. 32+51.89

P.C. 32+51.49

132.34A

E.T.R. 2067

N. 61°-13'-09" E

Fd. conc. R/W
monument
20.01' E. of E.
Sta. 20+76.19

Fd. conc. R/W
monument
20.03' E. of
E Sta. 20+76.32

P.T. 20+76.23

Tan. distance = 131.17'

P.I. 19+49.0
Fd. $\frac{3}{4}$ " ϕ iron

INDEXED ON MAP
3604

Resurvey part of T.R. 206
Harrison Twp.
Logan Co., Ohio

AA+Al. 666 - P.I. - Fd. $\frac{3}{4}$ " ϕ iron
bar \approx 1' deep - No curve
45°-26'-52" Lt.

1070.84'

3A+90.71 - P.T. - Fd. R.R. Spike

119.89'

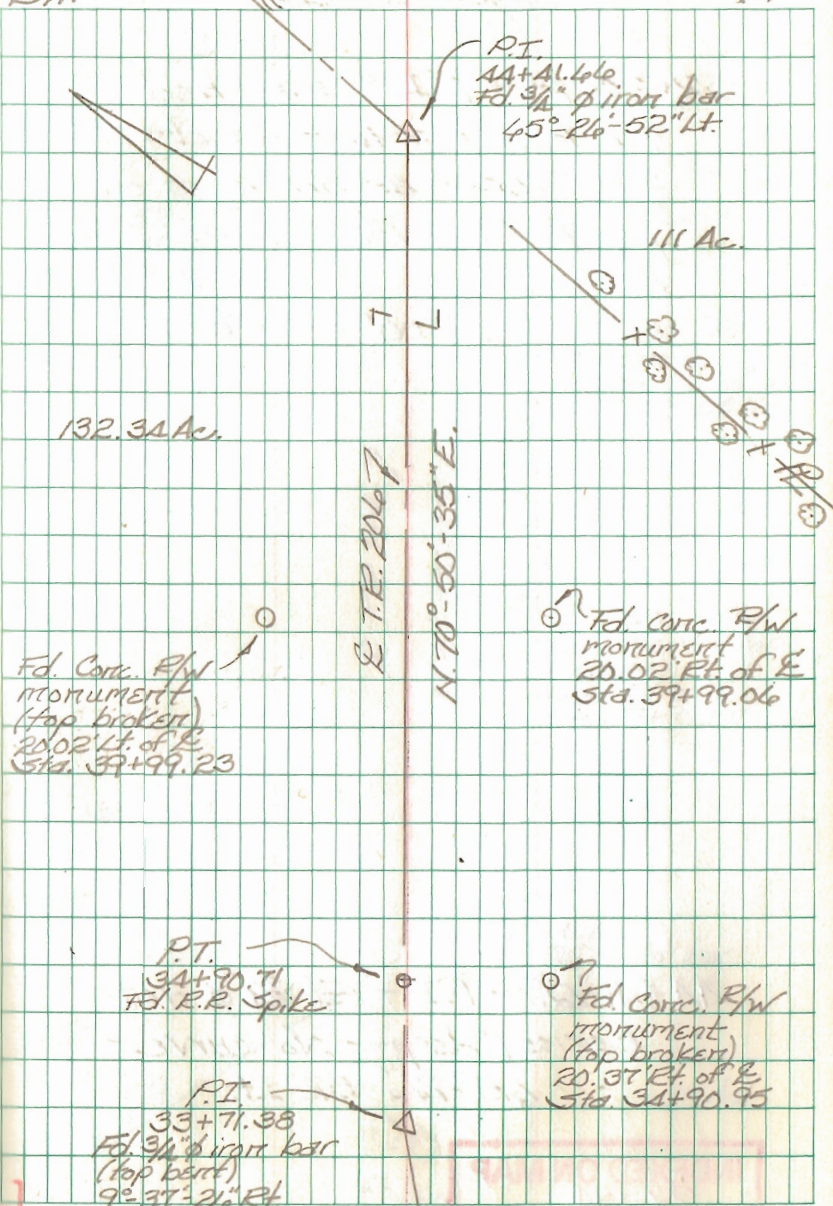
33+71.33 - P.I. - Fd. $\frac{3}{4}$ " ϕ iron bar
(bent over) - straightened -
shown as sta. 33+71.5 on
pg. 76 of F.B.L. # 453.
9°-37'-26" Rt.

INDEXED ON MAP
3604

Simmons
Dappert
Dill

JUNE 08

47



Resurvey part of T.R. 206
Harrison Twp.
Logan Co., Ohio

52+25.78 - P.I. - searched
for hub - no luck - set
3/4" ϕ rebar as per notes on
pg. 78 of F.B.K. #453. -
170 CURVE

90°-00'-00" Rt.

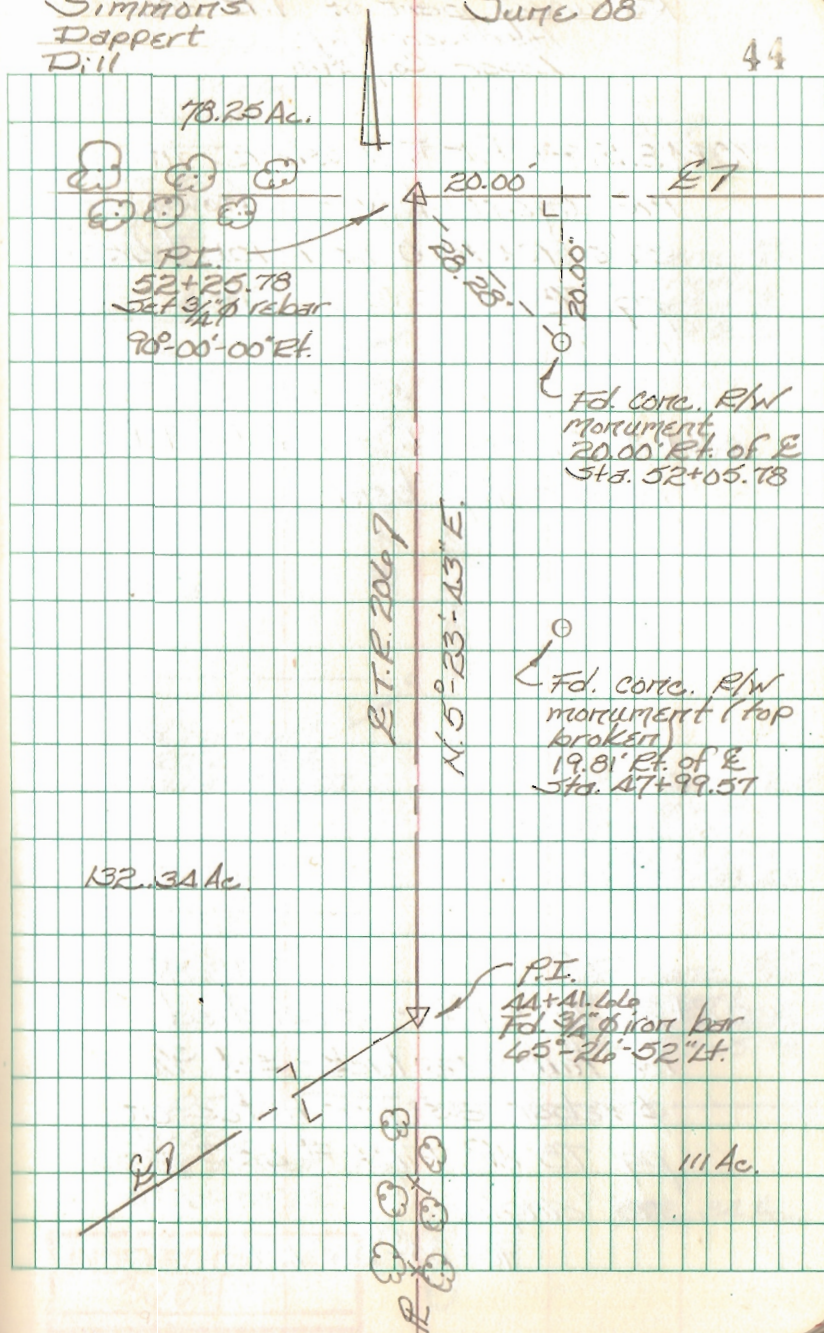
44+41.66 - P.I. - Fd. 3/4" ϕ iron
bar \approx 1' deep - No curve -
45°-26'-52" Lt.

INDEXED ON MAP
3604

Simmons
Dappert
Dill

June 08

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Resurvey part of T.R. 206
 Harrison Twp.
 Logan Co., Ohio

70+48.18 - P.I. - Fd. stone in
 monument box - shown as
 sta. 70+70.0 in F.B.K. # 453,
 pg. 78.

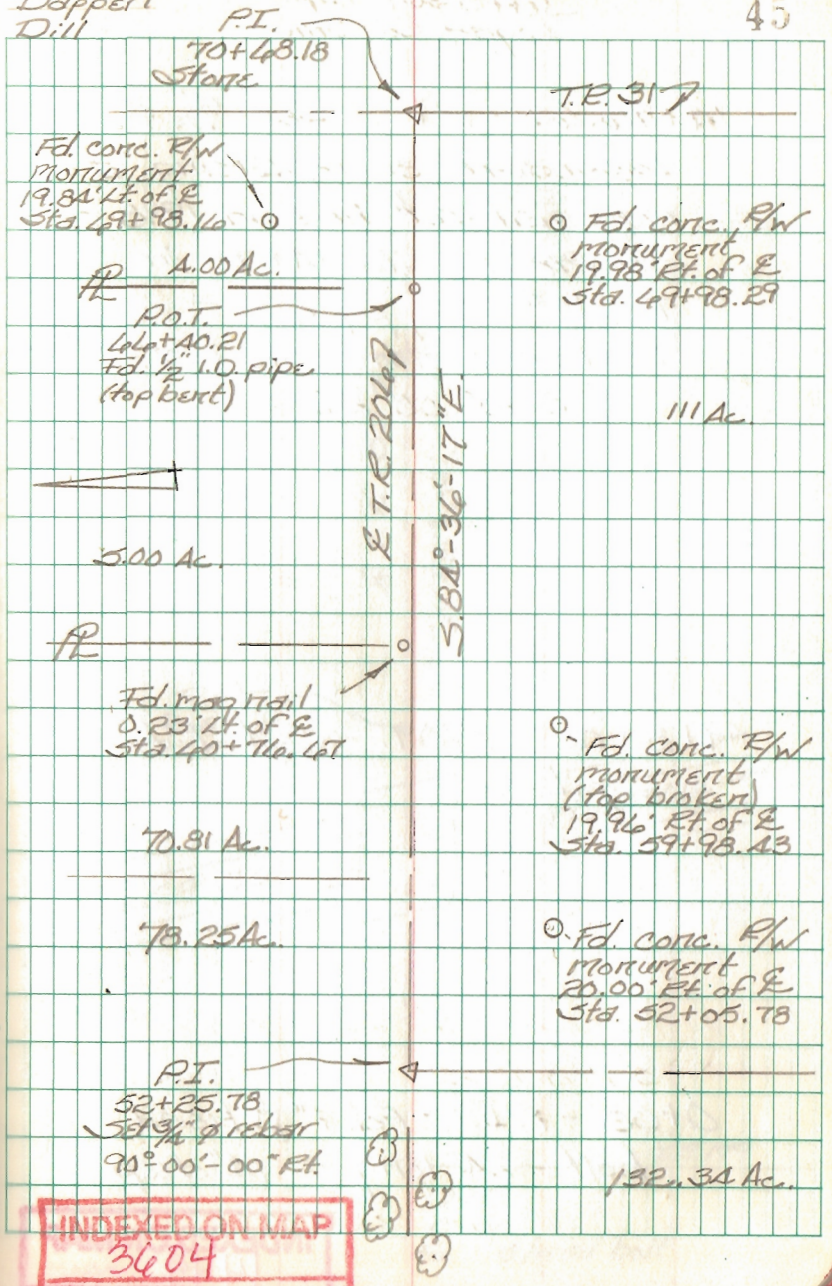
66+40.21 - P.O.T. - Fd. 1/2" I.D.
 pipe - top bent.

52+25.78 - P.I. - searched
 for hub - no luck - set 3/4"
 φ rebar as per notes on
 pg. 78 of F.B.K. # 453 -
 no angle
 90°-00'-00" Rt.

Simmons
 Dappert
 Dill

June 08

45



T.R. 55
Jefferson Twp.
Logan Co., Ohio

14+76.65 - P.I. - Set $\frac{5}{8}$ " ϕ
capped rebar replacing a
mag nail set here in 1998 -
shown as Sta. 14+78 in
F.B.K. # 555, pg. 43. -
Installed monument box.
0°-10'-00" Rt.

9+80.00 - P.O.T. - Set R.R.
Spike

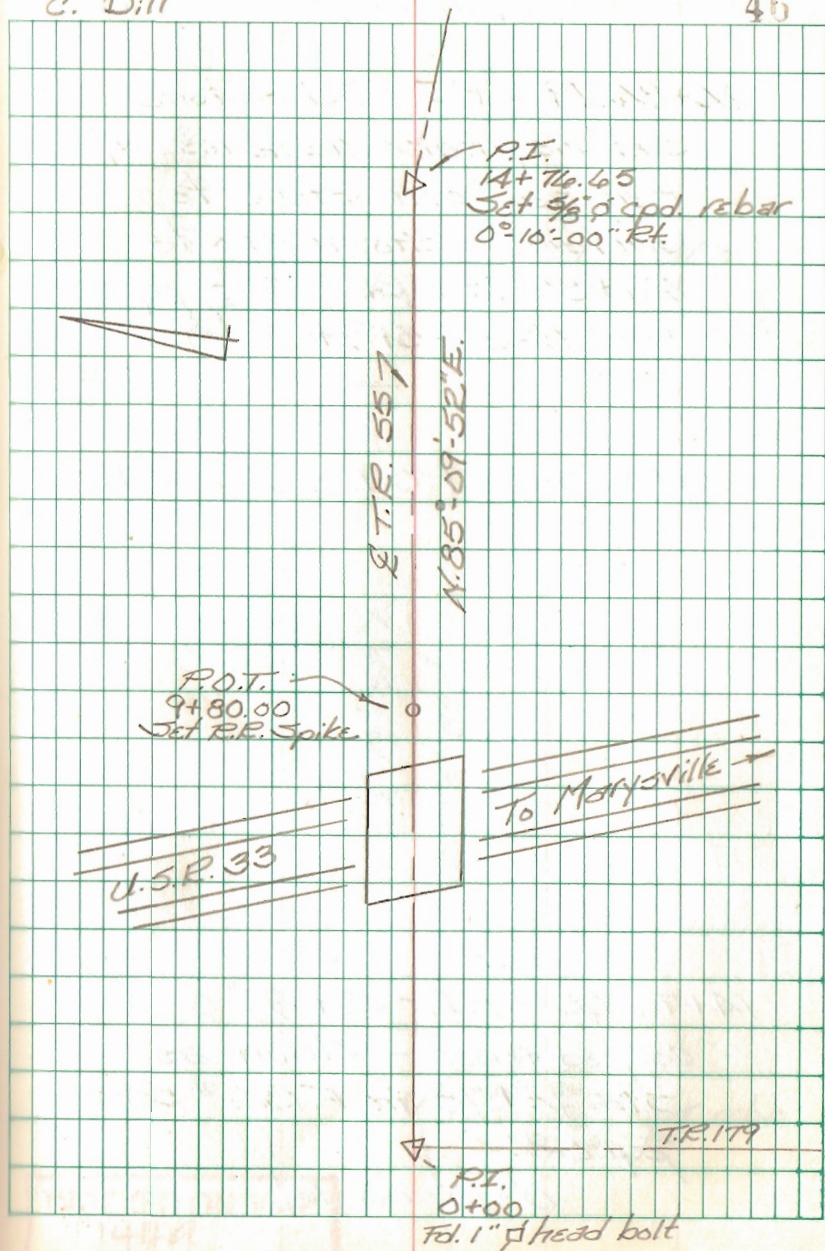
0+00 - P.I. - Fd. 1" ϕ head
bolt - 24" long \approx 14" deep

INDEXED ON MAP
1449

B. Simmons
G. Dappert
C. Dill

June 08

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T.R. 65
Jefferson Twp.
Logan Co., Ohio

26+84.79 - P.I. - Fd. Stone -

Set mag nail straddles w/
mag nail over stone to
surface - Shown as Sta.

26+86 in F.B.K. # 555, pg. 43.

0°-28'-51" Lt.

24+00.00 - P.O.T. - Set R.R.

Spike

14+74.65 - P.I. - Set 5/8" ϕ

capped rebar - Shown as

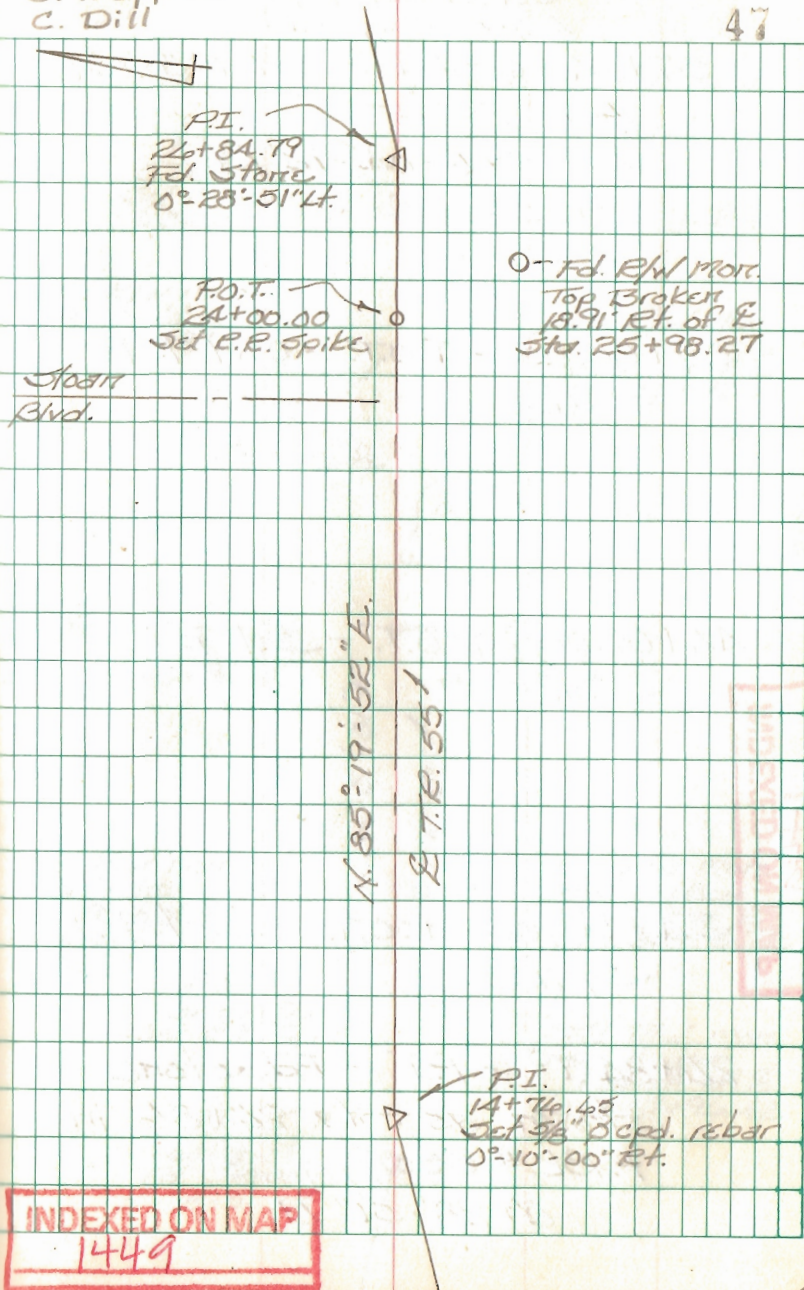
Sta. 14+78 in F.B.K. # 555,
pg. 43.

0°-10'-00" Rt.

B. Simmons
G. Dappert
C. Dill

JUNE 08

47



T.R. 55
Jefferson Twp.
Logan Co., Ohio

57+24.28 - P.I. - Set 1" ϕ iron
bar

96°-04'-12" Rt.

54+00.00 - P.O.T. - Set R.R.
Spike

44+00.00 - P.O.T. - Set R.R.
Spike

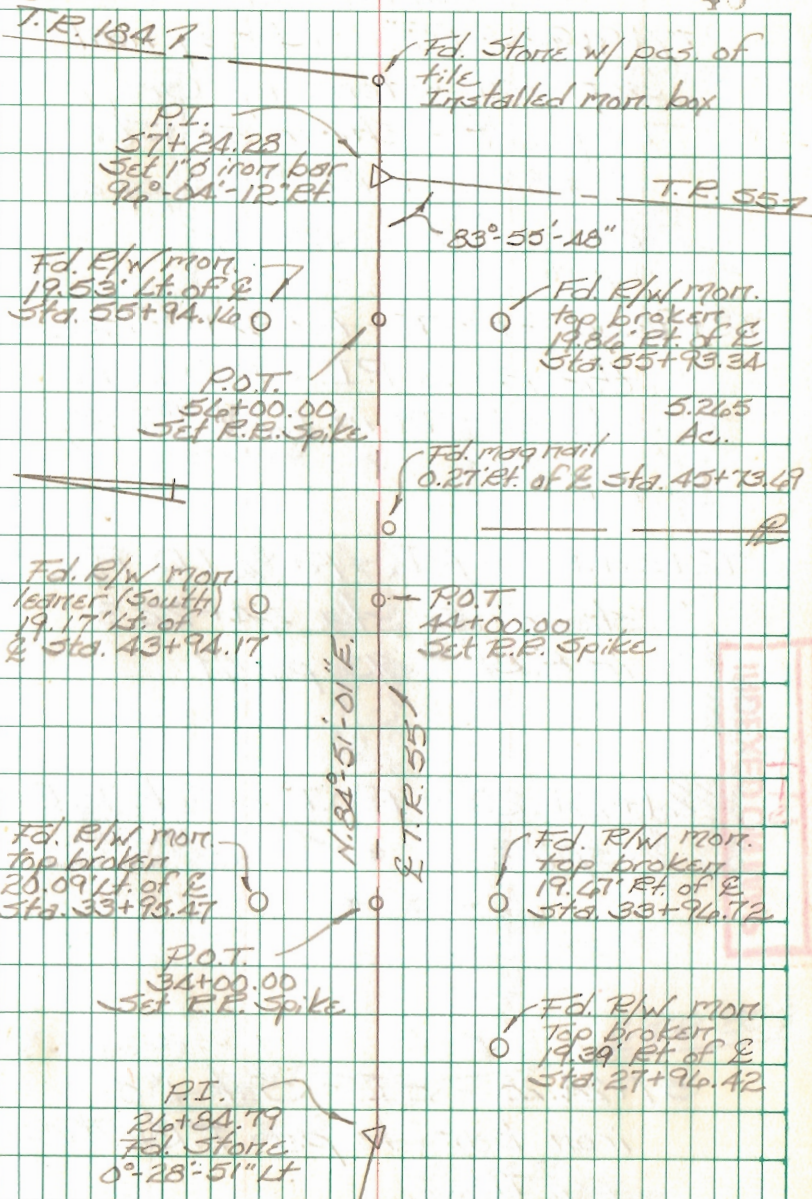
34+00.00 - P.O.T. - Set R.R.
Spike

26+84.79 - P.I. - Fd. stone -
shown as Sta. 26+86 in
F.B.K. # 555, pg. 43
0°-28'-51" Lt.

B. Simmons
G. Dappert
C. Dill

June 08

48



T.R. 55
Jefferson Twp.
Logan Co., Ohio

77+91.92 - P.I. - Fd. mag nail
set over stone by Gregg
Dappert - shown as Sta.
58+83 in F.Bk. # 513, pg. 68 -
end of this survey.

72+98.06 - P.O.T. - Fd. $\frac{3}{4}$ " I.D. Pipe -
this is old P.I. shown as
Sta. 63+79 in F.Bk. # 513,
pg. 69.

72+54.83 - P.I. - Fd. $\frac{3}{4}$ " I.D. Pipe -
shown as Sta. 64+22.3
in F.Bk. # 513, pg. 69

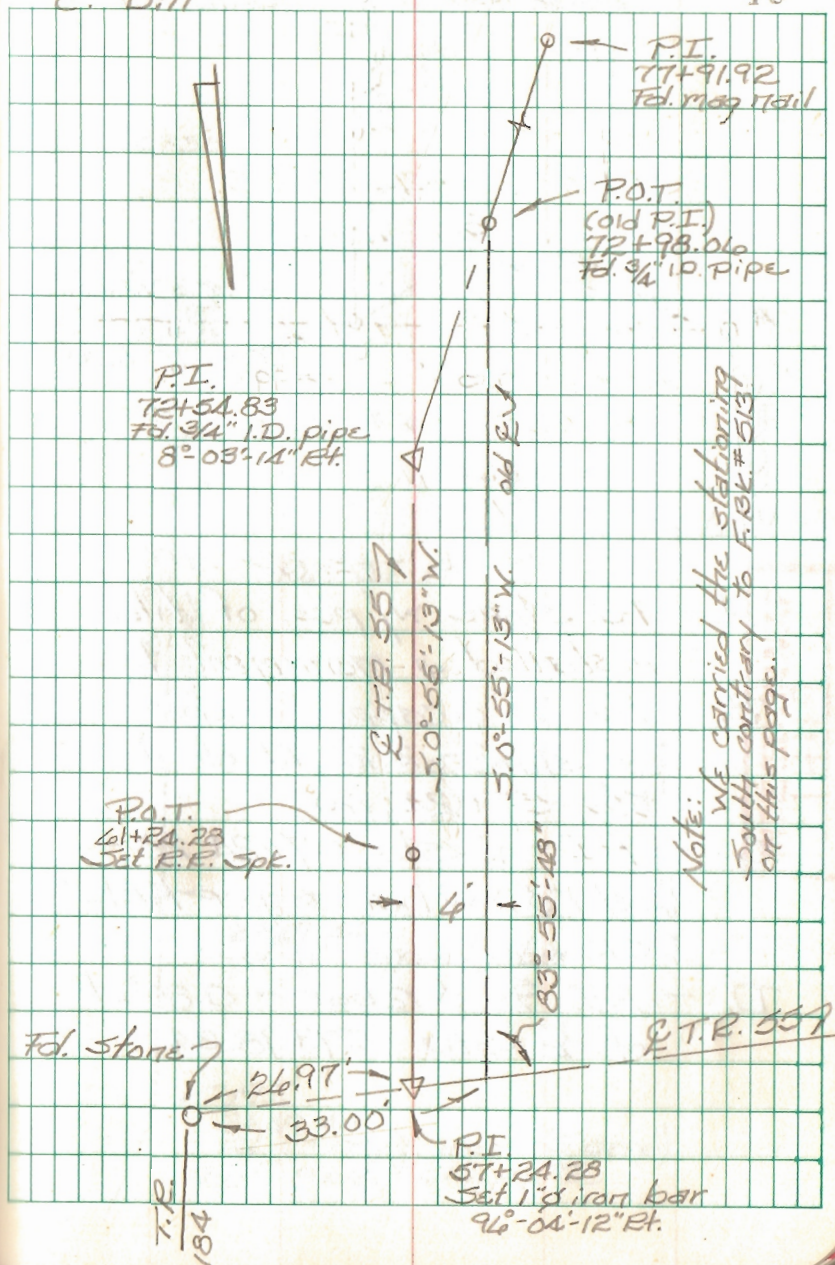
61+24.28 - P.O.T. - Set R.R.
spike

57+24.28 - P.I. - Set 1" ϕ
iron bar as per F.Bk. # 513,
pg. 71
96°-04'-12" Rt.

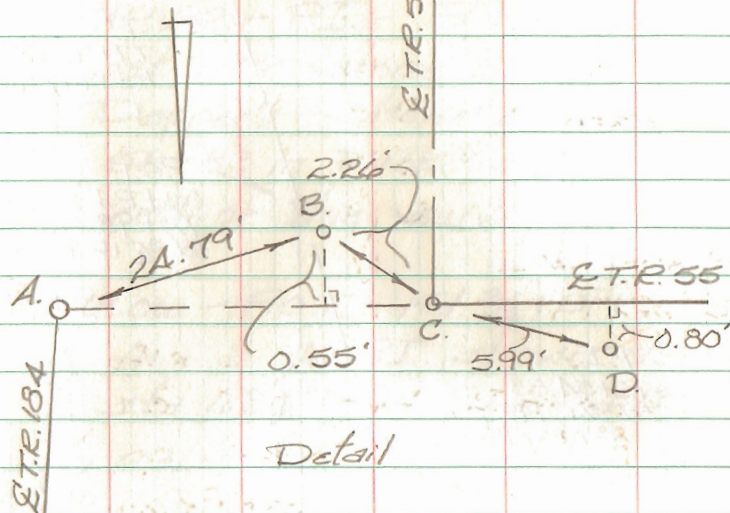
B. Simmons
G. Dappert
C. Dill

June 08

49



Intersection T.R. 55 w/ T.R. 184
 Jefferson Twp.
 Logan Co. Ohio



Detail

- A. - Fd. stone w/ pcs. of tile - installed a monument box
- B. - Fd. $\frac{5}{8}$ " ϕ capped rebar "Geeslin" - 2.23' Lt. of \mathcal{E} Sta. 57+24.60
- C. - P.I. - \mathcal{E} Sta. 57+24.28 - set 1" ϕ iron bar as per F.R.K. # 513
- D. - Fd. $\frac{5}{8}$ " ϕ rebar - 0.80' Lt. of \mathcal{E} Sta. 57+18.34

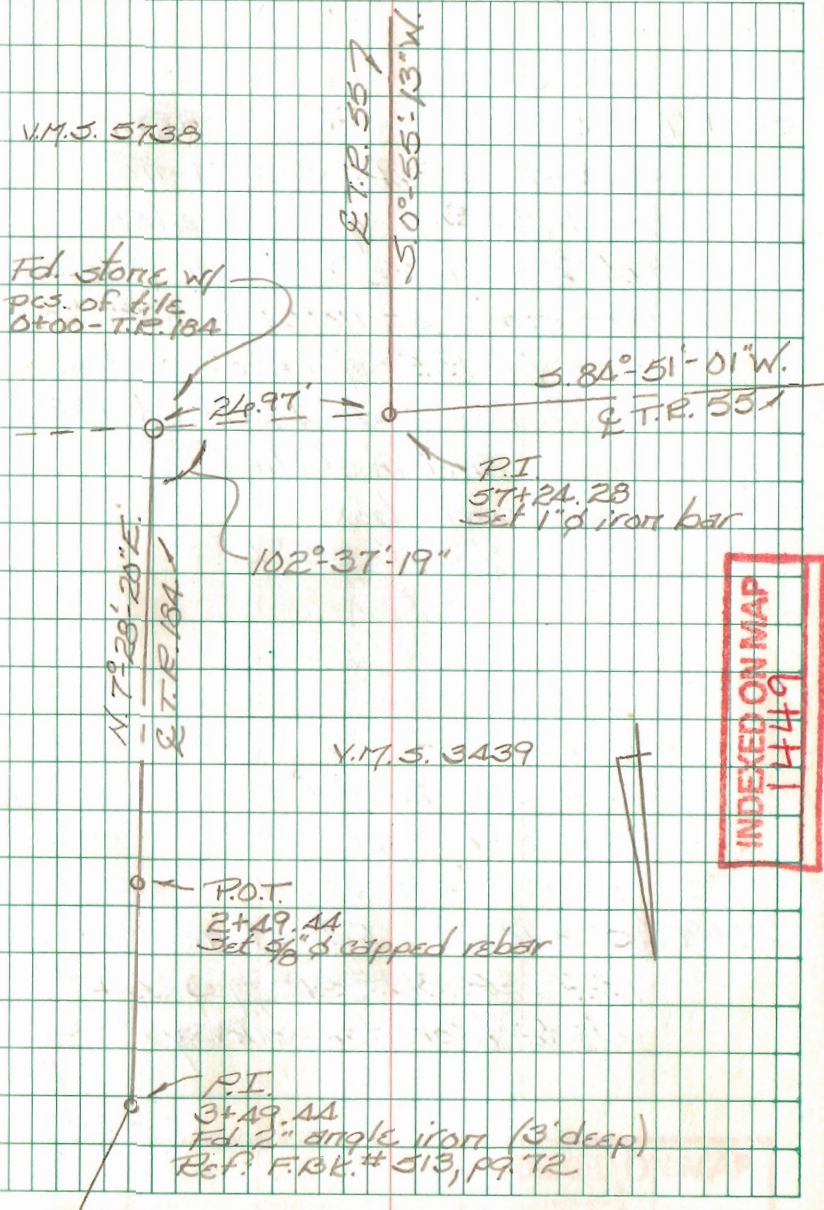
B. Simmons
 G. Deppert
 C. Dill

June 08

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V.M.S. 5738

Fd. stone w/ pcs. of tile
 0+00 - T.R. 184



INDEXED ON MAP
 1449

T.R. 55
Jefferson Twp.
Logan Co., Ohio

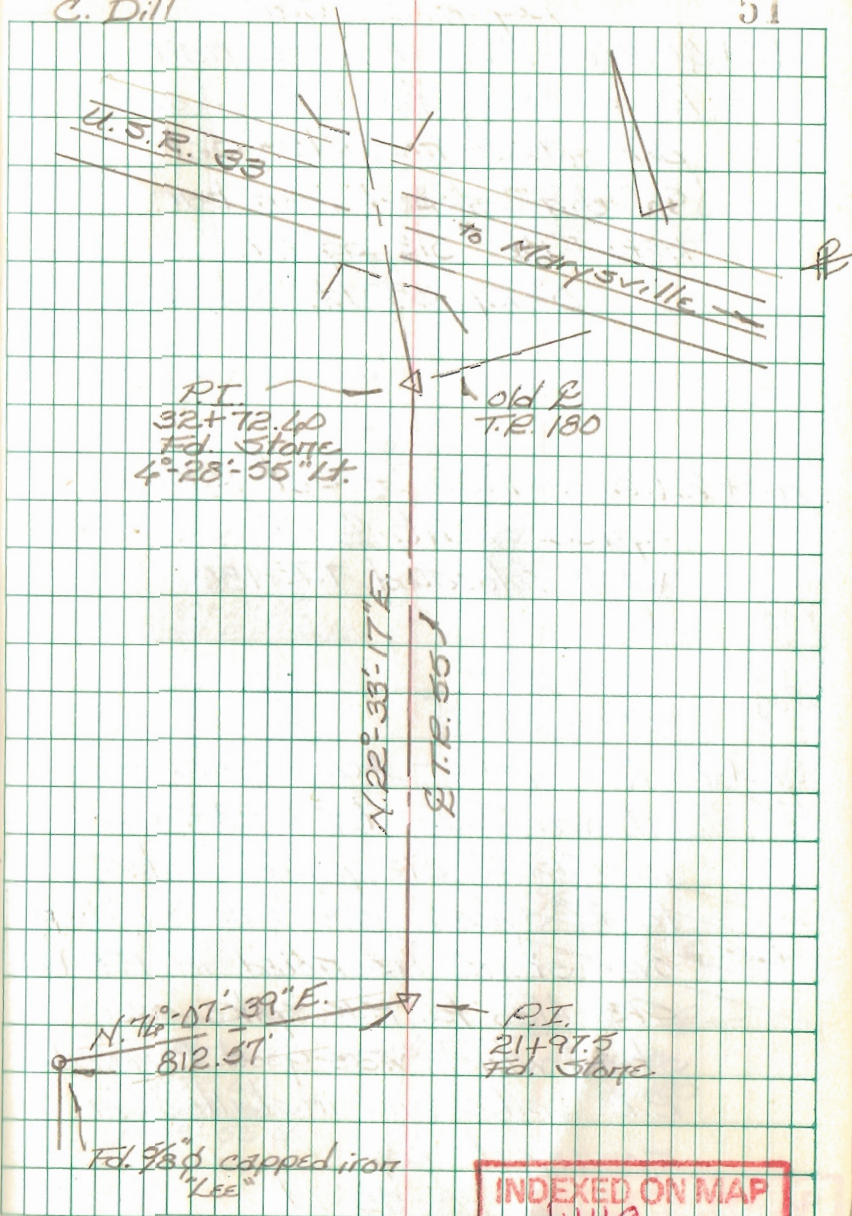
32+72.40 - P.I. - Fd. Stone -
shown as Sta. 32+74 in
F.Bk. # 513, pg. 44 - also
fd. 2" square iron bar (≈ 4 " deep)
over stone as noted in F.Bk. # 513.
Also fd. R.R. spike over stone
which was good. Removed R.R.
spike and installed a
monument box.
4°-28'-55" Lt.

21+97.5 - P.I. - Fd. stone -
Ref: F.Bk. # 513, pg. 44.
Start of this survey.

B. Simmons
G. Dappert
C. Dill

March 2010

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T.R. 55
Jefferson Twp.
Logan Co., Ohio

A5+40.36 - P.I. - Fd. PK nail
here - Dug for I. Pipe as
per notes - no luck - Set
5/8" dia. capped iron bar.
Ref: F.Bk. # 513, pg. 47.
0°-27'-38" Lt.

A0+29.02 - P.O.T. - Set R.R.
spike - Int. & T.R. 55
w/ & relocated T.R. 180

32+72.60 - P.I. - Fd. stone -
shown as Sta. 32+7A
in F.Bk. # 513, pg. 466 - also
fd. 2" square iron bar (≈ 4" deep)
over stone as noted in F.Bk. #
513. Also fd. R.R. spike over
stone which was good. Removed
R.R. spike and installed a
monument box.
4°-28'-55" Lt.

B. Simmons
G. Dappert
C. Dill

March 2010

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INDEXED ON MAP

1449

T.R. 55
Jefferson Twp.
Logan Co., Ohio

58+80.04 - P.I. - Fd. mag. nail
set over stone by G. Dappert -
shown as Sta. 58+83 in
F.R.K. # 513, pg. 48 - also fd.
mag nail straddles.
1°-13'-40" Rt.

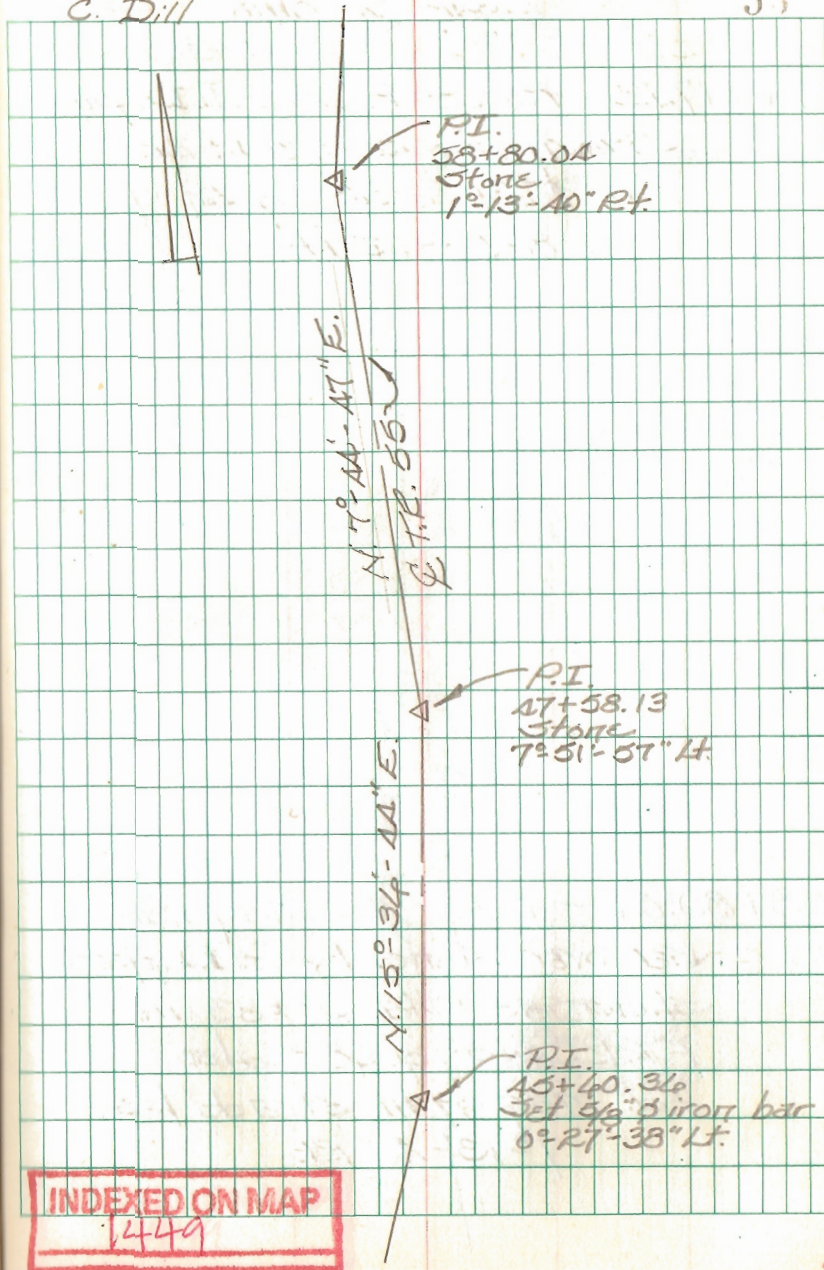
47+58.13 - P.I. - Fd. mag nail
set over stone by G. Dappert -
shown as Sta. 47+41 in
F.R.K. # 513, pg. 47 - also fd.
mag nail straddles.
7°-51'-57" Lt.

45+40.36 - P.I. - Fd. PK nail here -
Dug for I. Pipe as per
notes - no luck - Set
5/8" dia. capped iron bar.
Ref: F.R.K. # 513, pg. 47.
0°-27'-38" Lt.

B. Simmons
G. Dappert
C. Dill

March 2010

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T.R. 55
Jefferson Twp.
Logan Co., Ohio

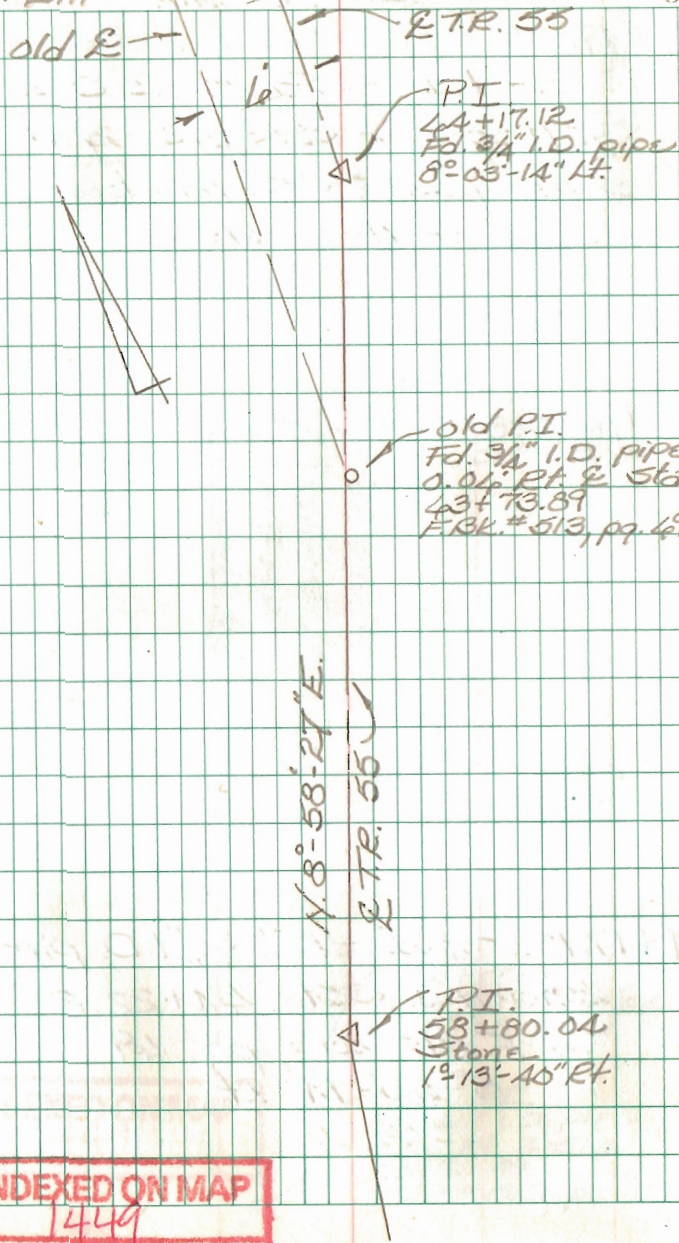
4A+17.12 - P.I. - Fd. $\frac{3}{4}$ " I.D. pipe -
shown as Sta. 4A+22.3
in F.Bk. # 513, pg. 49
8°-03'-14" Lt.

58+80.04 - P.I. - Fd. mag nail
set over stone by G. Dappert -
shown as Sta. 58+83 in
F.Bk. # 513, pg. 48 - also
fd. mag nail straddles.
1°-13'-10" Rt.

B. Simmons
G. Dappert
C. Dill

March 2010

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T.R. 55
Jefferson Twp.
Logan Co., Ohio

79+17.48 - P.I. - Set 1" dia.
iron bar - shown as Sta.
79+55 in F.Bk. # 513, pg. 71.
(See pgs. 48-50 this book.)
End of this survey

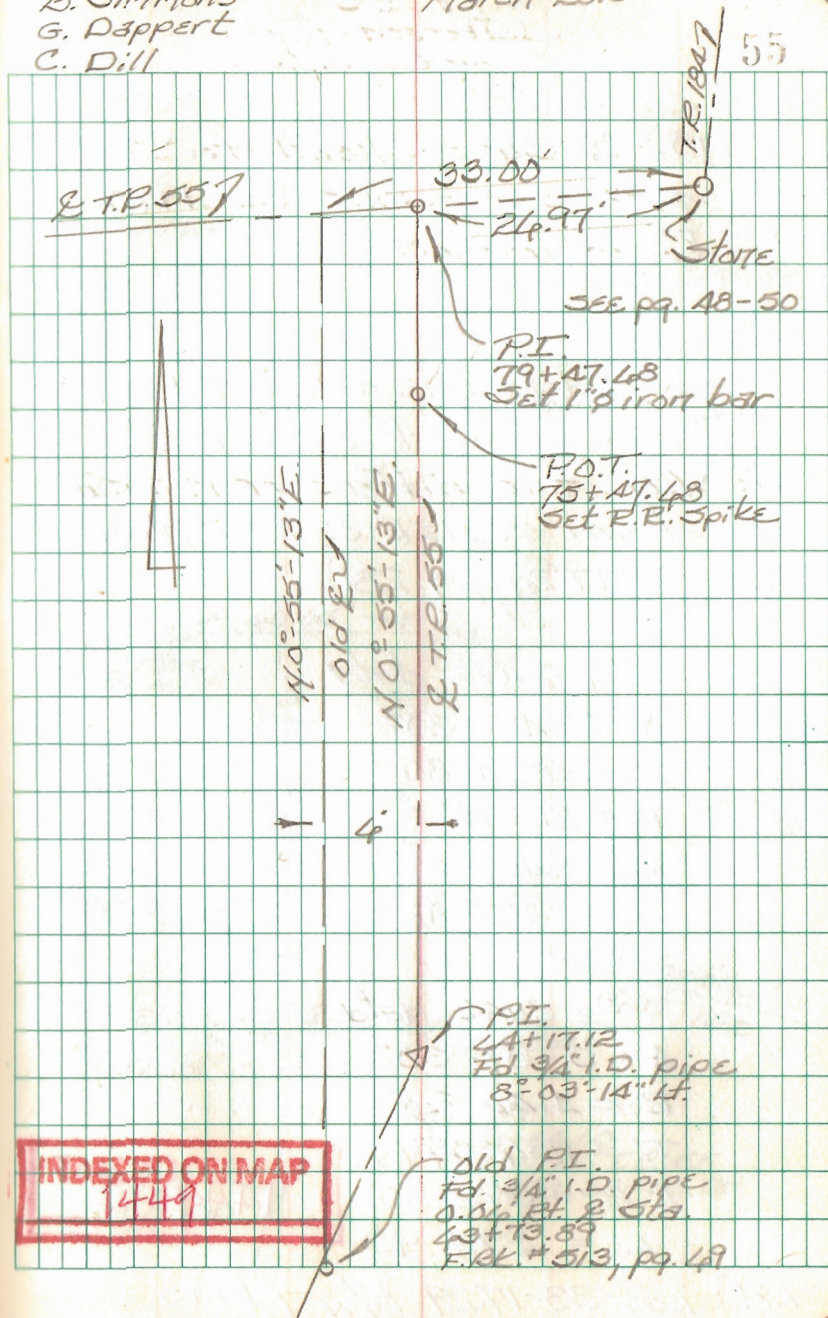
75+17.48 - P.O.T. - Set R.R. Spike

4A+17.12 - P.I. - Fd. $\frac{3}{4}$ " I.D. pipe -
shown as Sta. 4A+22.3
in F.Bk. # 513, pg. 49
8°-03'-14" Lt.

INDEXED ON MAP

B. Simmons
G. Dappert
C. Dill

March 2010



T.R. 55
Jefferson Twp.
Logan Co., Ohio

E.O.D.O.T. Survey used for
easement acquisitions for 1960
U.S. Rt. 33 project.

Note:

I had trouble getting O.D.O.T.'s
stationing to work out which
is why mine differs from what
is shown on USR 33 R/W plans
(Log 33-17.29, pg. 281).

C₁ curve data

$$\Delta = 8^{\circ} - 42' - 30''$$

$$R = 2844.80$$

$$T = 218.13'$$

$$L.C. = 435.00'$$

$$L = 435.42'$$

C₂ curve data

$$\Delta = 5^{\circ} - 09' - 30''$$

$$R = 4142.24'$$

$$T = 184.59'$$

$$L.C. = 372.80'$$

$$L = 372.93'$$

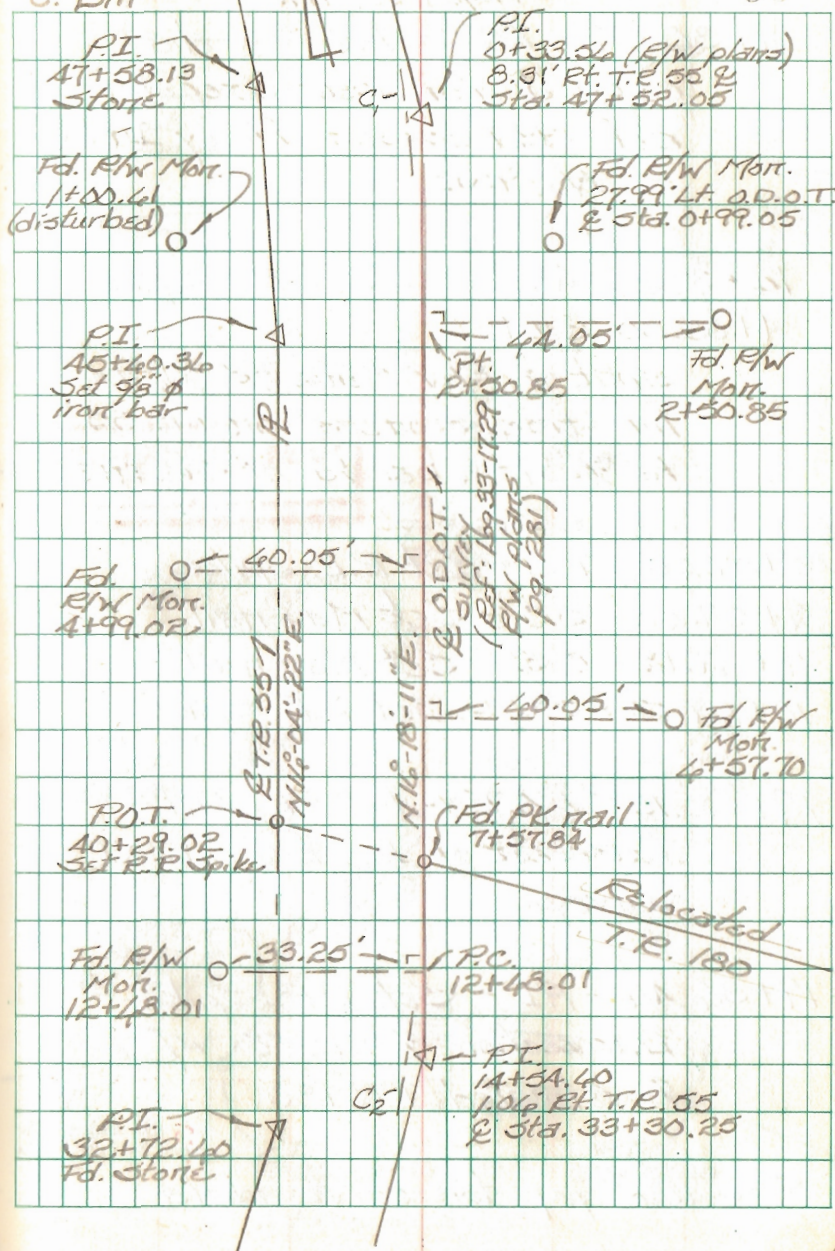
INDEXED ON MAP
1449

Ref: Log 33-17.29 R/W plans

B. Simmons
G. Dappert
C. Dill

March 2010

56



Relocated T.R. 180
Jefferson Twp.
Logan Co., Ohio

19+36.74 - P.I. - Fd. $\frac{5}{8}$ " dia.
capped iron bar "Geeslin"
Ref: 1997 Geeslin Survey Index
No. 9135

14+39.25 Ahead - Set R.R. Spike on
4+00.00 Back
split of R/W Morris. Fd. - Fits
line from stone fd. on T.R. 55
to $\frac{5}{8}$ " iron bar fd. at Sta. 19+36.74

5+07.60 - T.S. - Set R.R. spike
7+57.60 - S.C. - Set Mag nail
7+87.13 - C.S. - Set Mag nail
10+37.13 - S.T. - Set R.R. Spike

19+32.10 - P.O.T. - Fd. PK nail -
Intersect of the two O.D.O.T.
surveys.

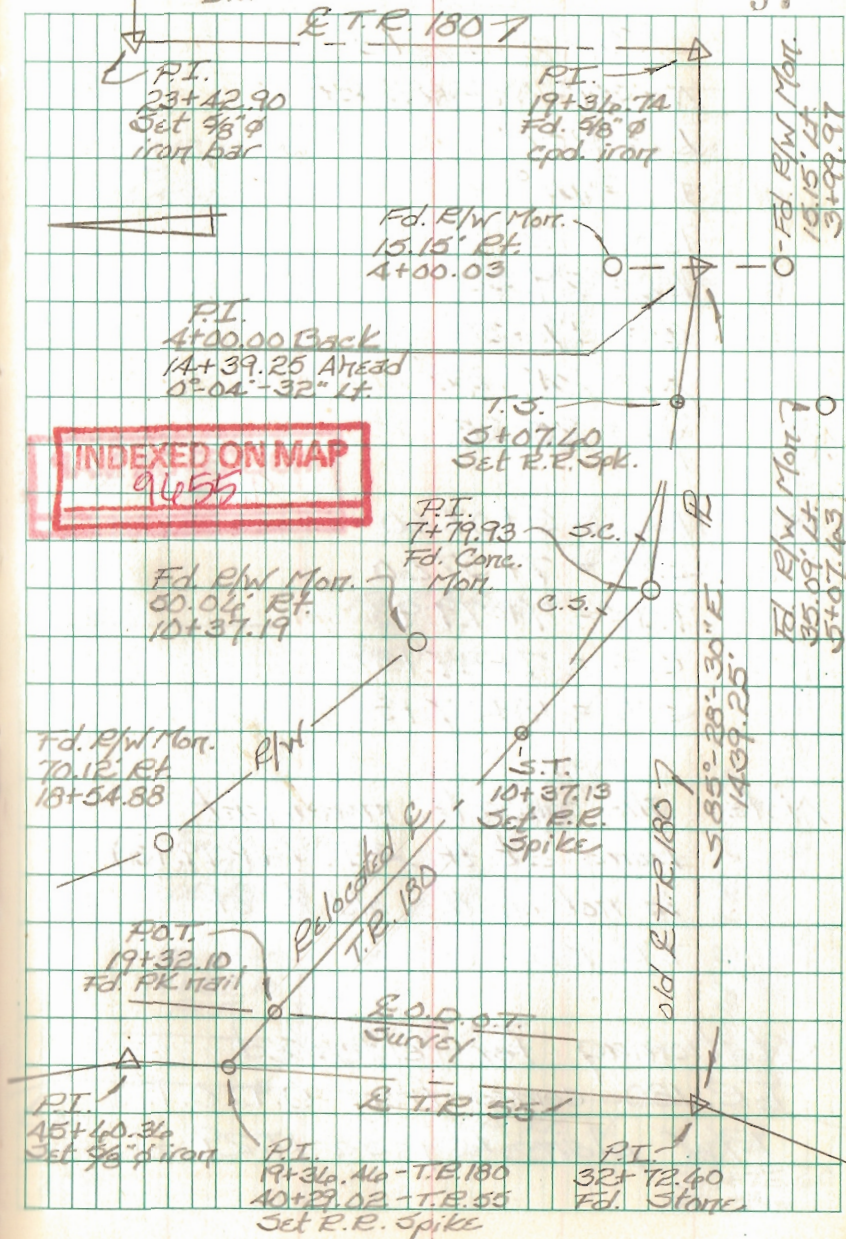
19+36.46 - P.I. - Set R.R. Spike -
Intersection & T.R. 55 w/
& relocated T.R. 180.

See next pg. for curve data

Simmons
Dappert
Dill

2010

57



Relocated T.R. 180
 Jefferson Twp.
 Logan Co., Ohio

Curve Data

$\Delta = 39^{\circ} 07' 48''$ Rt.

$L_s = 250'$

$D_a = 14^{\circ}$

$T_s = 272.33'$

$L_c = 29.50'$

$\theta = 17^{\circ} 30'$

$X_c = 247.48'$

$Y_c = 25.28'$

T.S. = 5+07.60

S.C. = 7+57.60

P.I. = 7+79.93

C.S. = 7+87.13

S.T. = 10+37.13

Note: the concrete monument
 found at the P.I. (7+79.93)
 is not on the old & of
 T.R. 180.

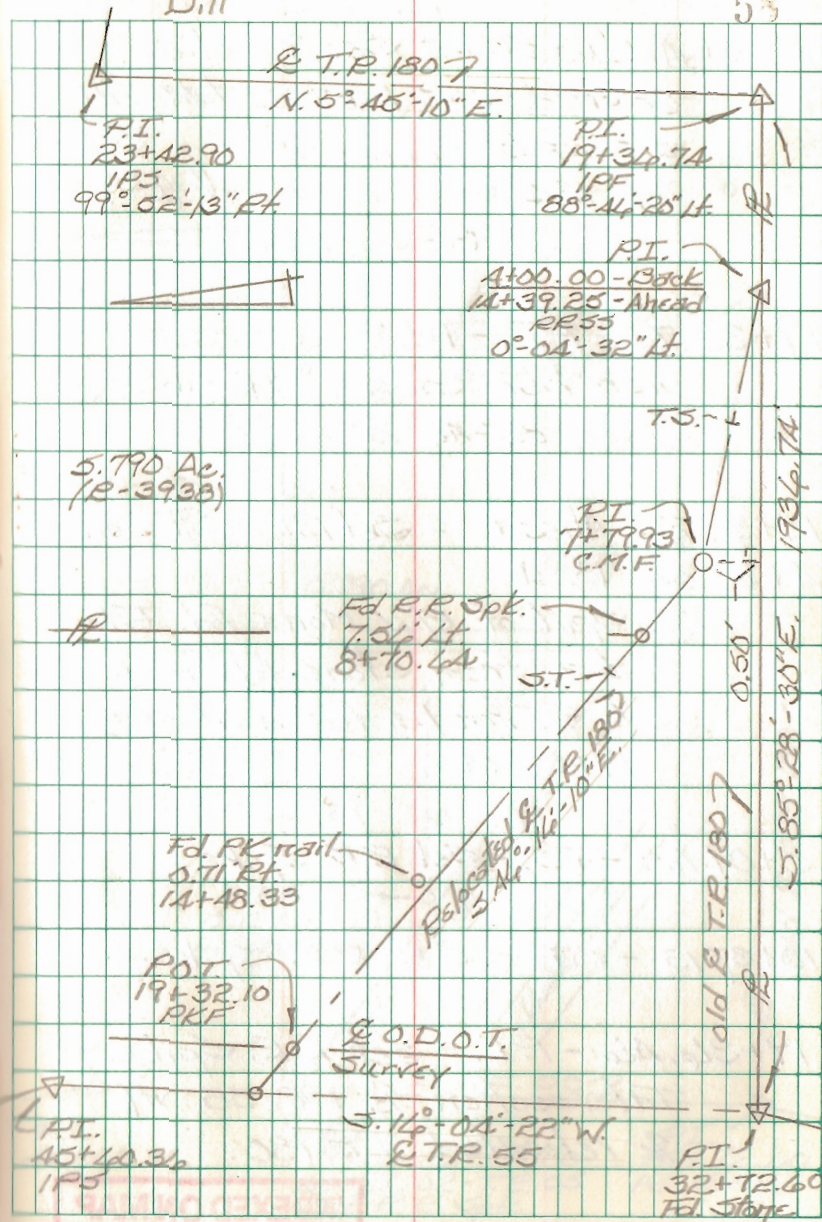
Stationing for relocated
 T.R. 180 comes from O.D.O.T.'s
 P/W plan Log-33-17.29

INDEXED ON MAP
9455

Simmons
 Dappert
 Dill

2010

58



T.R. 180
Jefferson Twp.
Logan Co., Ohio

35+47.27 - P.I. - Fd. Harrow
tooth - Ref: 1997 Geeslin
Survey (R-9135) - O.K.S. F.BK. #5
pg. 23; 1977 K&S Survey
(R-5240)

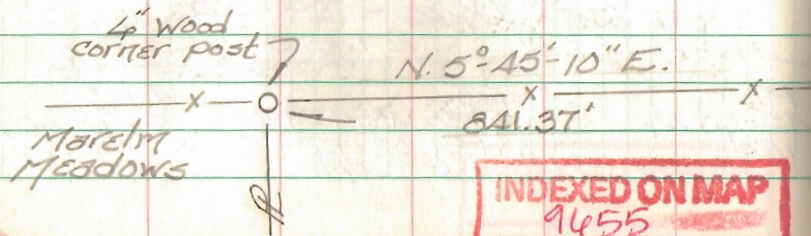
$2^{\circ} 17' 19''$ Rt.

29+38.89 - P.I. - Set R.R. Spike -
Set to fit existing pavement
& fences

$21^{\circ} 03' 45''$ Rt.

23+42.90 - P.I. - Set $\frac{5}{8}$ " dia. capped
rebar on the R to the N.
as per 1997 Geeslin Survey
(R-9135).

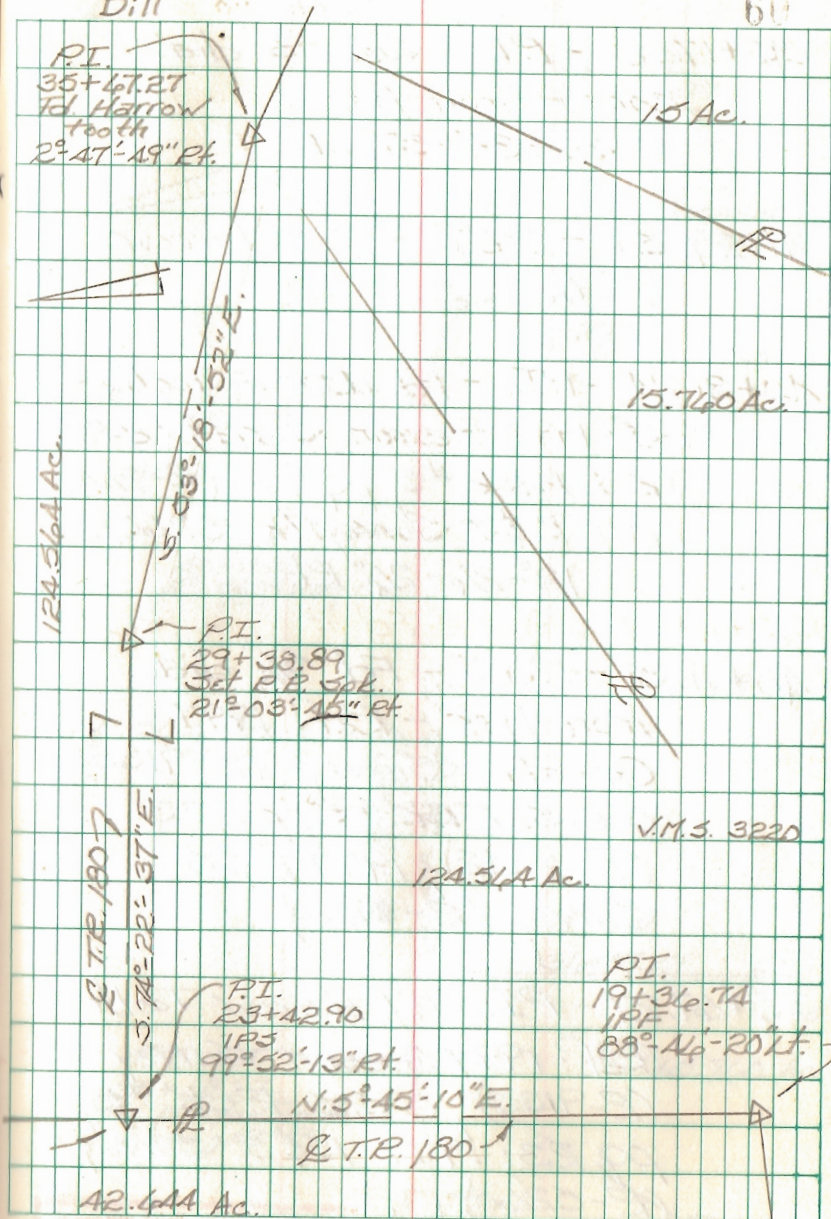
$99^{\circ} 52' 13''$ Rt.



Simmons
Dappert
Dill

2010

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T.R. 180
Jefferson Twp.
Logan Co., Ohio

A2+17.02 - P.I. - Set $\frac{3}{8}$ " dia.
capped iron bar.
 $36^{\circ}-36'-57"$ Lt.

A1+29.54 - P.O.T. - Fd. Harrow
Tooth.

A0+81.24 - P.I. - Fd. Harrow Tooth -
Ref: 1997 Geeslin Survey (R-9135);
O.K.S. F.B.K. #5, pg. 23 (R-2AA2);
1977 K&S Survey (R-5260).
 $12^{\circ}-26'-26"$ Rt.

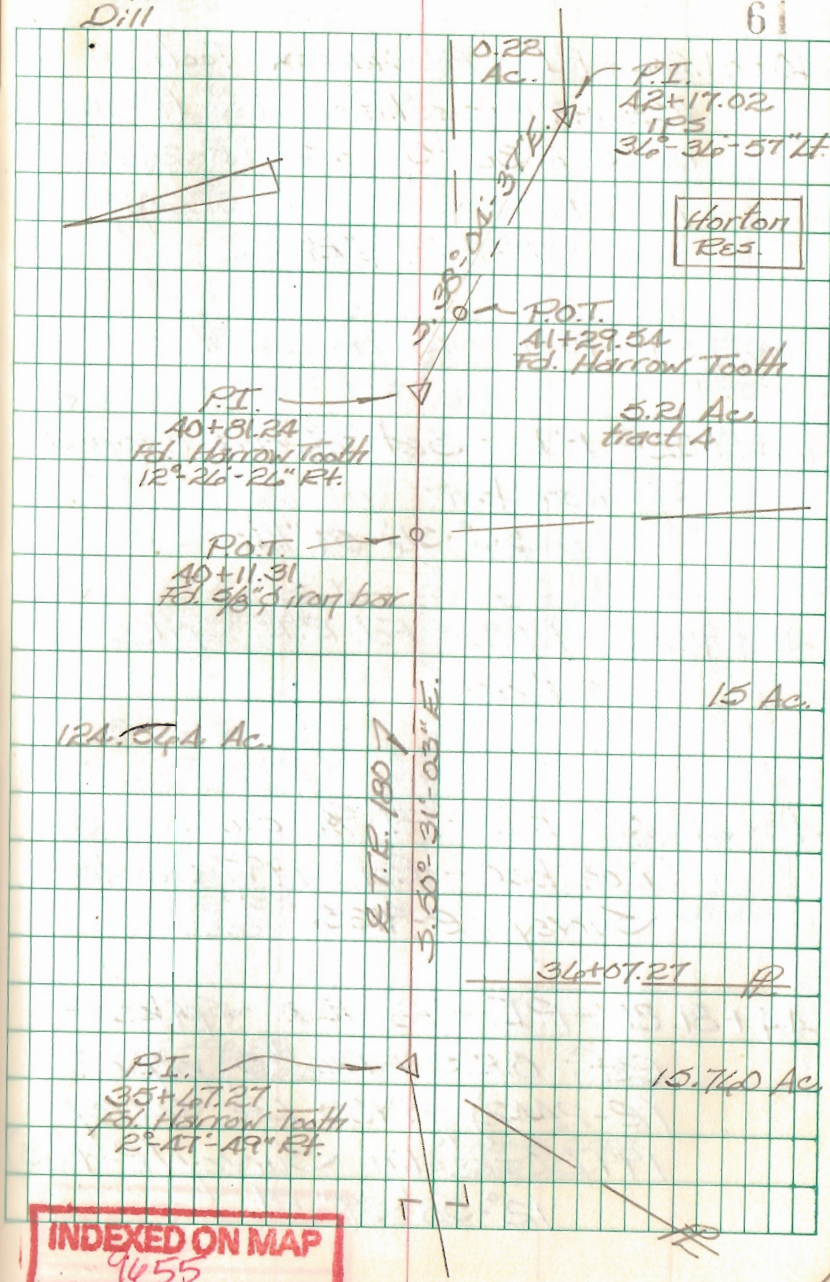
A0+11.31 - P.O.T. - Fd. $\frac{3}{8}$ " dia.
iron bar - Ref: 1997
Geeslin Survey (R-9135);
O.K.S. F.B.K. #5 pg. 23
(R-2AA2). 1977 K&S
Survey (R-5260).

35+67.27 - P.I. - Fd. Harrow Tooth -
Ref: 1997 Geeslin Survey
(R-9135). O.K.S. F.B.K. #5,
pg. 23; 1977 K&S Survey
(R-5260)
 $2^{\circ}-47'-49"$ Rt.

Simmors
Dappert
Dill

2010

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9455

T.R. 180
Jefferson Twp.
Logan Co., Ohio

40+81.2A - P.I. - Fd. Harrow Tooth -
Ref: 1997 Geeslin Survey (R-9135)
O.K.S. F.Bk. #5, pg. 23 (R-2442);
1977 K&S Survey (R-5260).
12°-26'-24" Rt.

41+29.5A - P.O.T. - Fd. Harrow Tooth

42+17.02 - P.I. - Set $\frac{5}{8}$ " dia. capped
iron bar.
34°-36'-57" Lt.

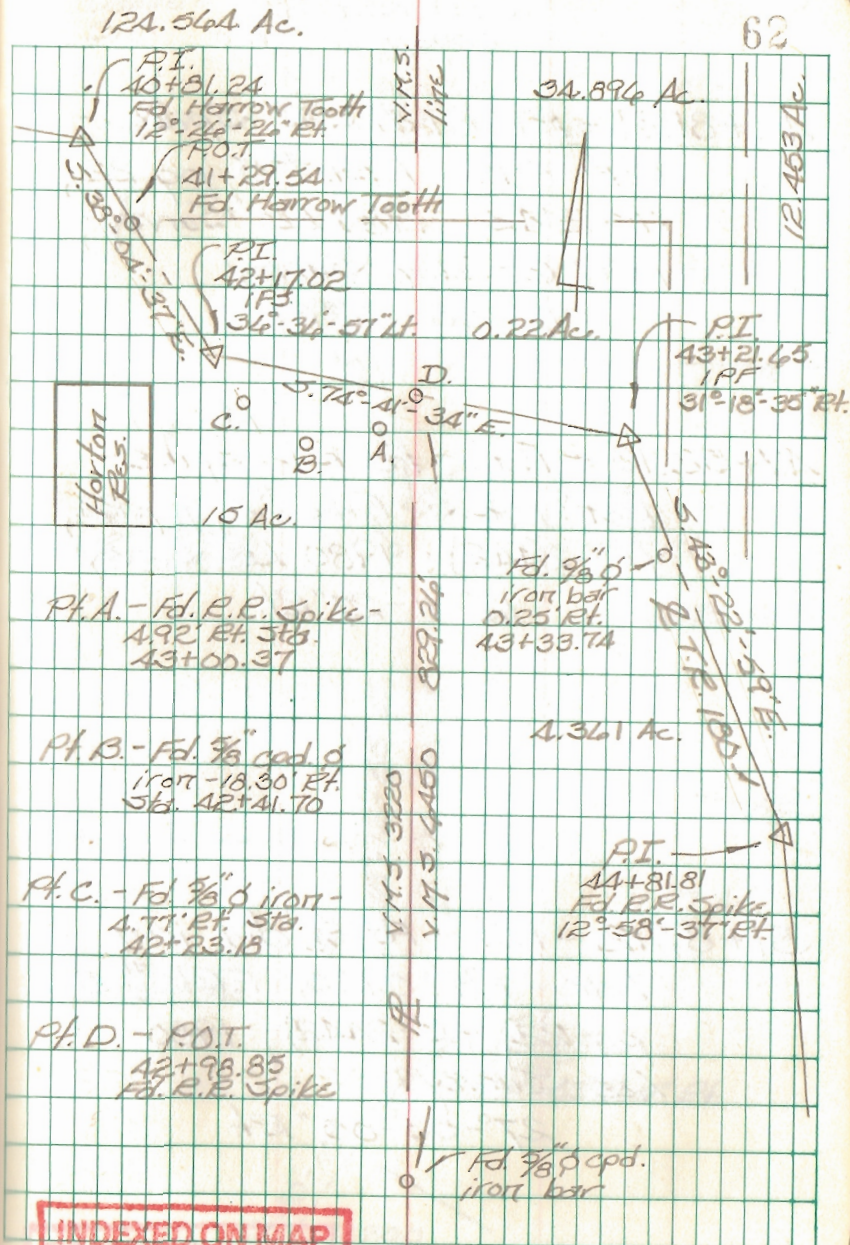
42+98.85 - P.O.T. - Fd. R.R. Spike
≈ 1' deep

43+21.45 - P.I. - Fd. $\frac{5}{8}$ " dia. capped
iron bar - Ref: 1997 Geeslin
Survey (R-9135).

44+81.81 - P.I. - Fd. R.R. Spike -
Ref: O.K.S. F.Bk. #5, pg. 22
(R-2442); 1980 LEE Survey;
1997 Geeslin Survey (R-9135)
12°-58'-37" Rt.

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0100

T.R. 180
 Jefferson Twp.
 Logan Co., Ohio

44+81.81 - P.I. - Fd. R.R. Spike -
 Ref: O.K.S. F.BK. #5, pg. 22,
 (R-2442); 1980 Lee Survey;
 1997 Geeslin Survey
 12°-58'-37" Rt.

47+52.13 - P.I. - Fd. R.R. Spike -
 Ref: O.K.S. F.BK. #5, pg. 22,
 (R-2442); 1980 Lee Survey
 12°-11'-27" Rt.

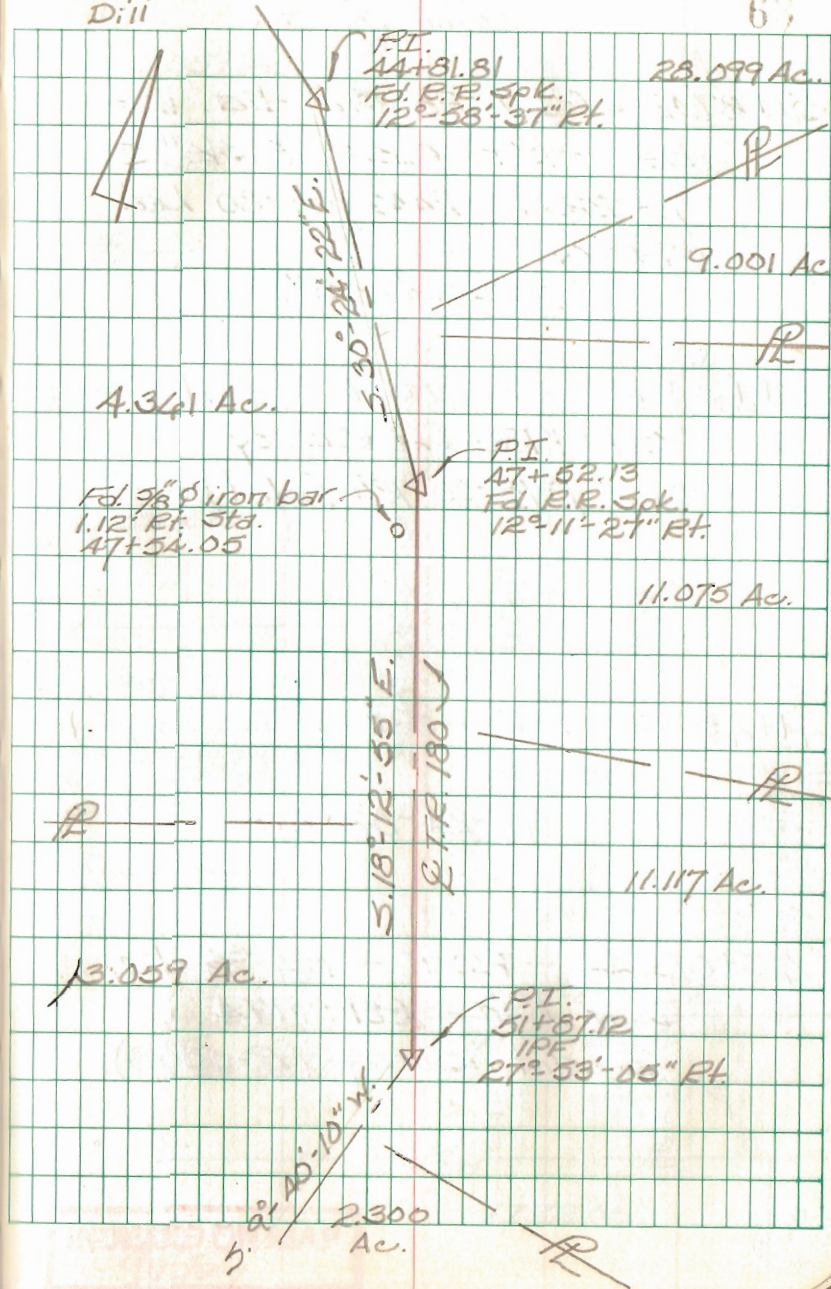
51+87.12 - P.I. - Fd. 5/8" dia. iron
 bar - Ref: O.K.S. F.BK. #5,
 pg. 22, (R-2442); 1980
 Lee Survey
 27°-53'-05" Rt.

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 9455

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T.R. 180
Jefferson Twp.
Logan Co., Ohio

51+87.12 - P.I. - Fd. $\frac{3}{8}$ " dia. iron
bar - Ref: O.K.S. F.Bk. #5,
pg. 22, (R-2442); 1980 Lee
Survey
 $27^{\circ}53'-05"$ Rt.

54+34.18 - P.I. - Fd. R.R. Spike -
Ref: 1980 Lee Survey
 $1^{\circ}18'-00"$ Rt. (plat)

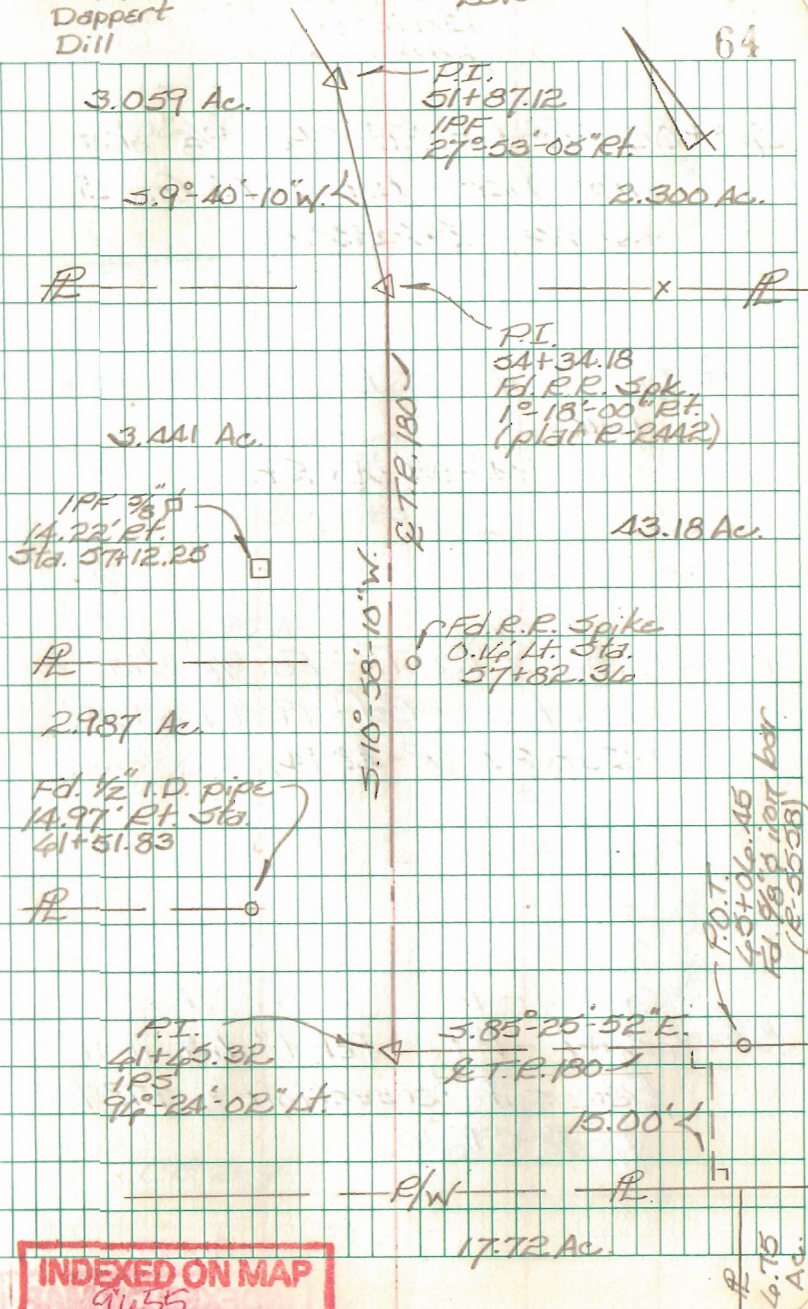
41+45.32 - P.I. - Set $\frac{3}{8}$ " dia. capped
iron bar
 $94^{\circ}24'-02"$ Lt.

45+06.45 - P.O.T. - Fd. $\frac{3}{8}$ " dia.
iron bar - Ref: 1974
Geeslin Survey (P-5558).

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3.059 Ac.

P.I.
51+87.12

195
 $27^{\circ}53'-05"$ Rt.

$3.9^{\circ}40'-10"$ W

2.300 Ac.

P

P.I.

54+34.18

Fd. R.R. Spike
 $1^{\circ}18'-00"$ Rt.
(plat R-2442)

3.441 Ac.

195 $\frac{3}{8}$ "
 $14.22'$ Rt.
Sta. 57+12.25

43.18 Ac.

P

Fd. R.R. Spike
 $0.14'$ Lt. Sta.
57+82.36

2.987 Ac.

Fd. $\frac{1}{2}$ " I.D. pipe
 $14.97'$ Rt. Sta.
41+51.83

P

E.T.R. 180
 $5.10^{\circ}58'-10"$ W

P.I.
41+45.32

195
 $94^{\circ}24'-02"$ Lt.

$3.85^{\circ}25'-52"$ E.

E.T.R. 180

15.00'

P/W

P

17.72 Ac.

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9055

P.O.T.
45+06.45
Fd. $\frac{3}{8}$ " iron bar
(P-5558)

P
4.75
Ac.

T.R. 180
Jefferson Twp.
Logan Co., Ohio

45+06.45 - P.O.T. - Fd. $\frac{3}{8}$ " dia.
iron bar - Ref: 1974 Geeslin
Survey (R-5538).

70+97.27 - P.I. - Fd. $\frac{3}{8}$ " dia. iron
bar
94°-04'-48" Rt.

76+36.82 - P.O.T. - Fd. $\frac{3}{8}$ " dia.
iron bar - Ref: 1967 Dodson
Survey (R-A3AA).

83+42.47 - P.I. - Fd. 1" dia. iron
bar - Intersection & T.R. 180
w/ & C.R. 10.

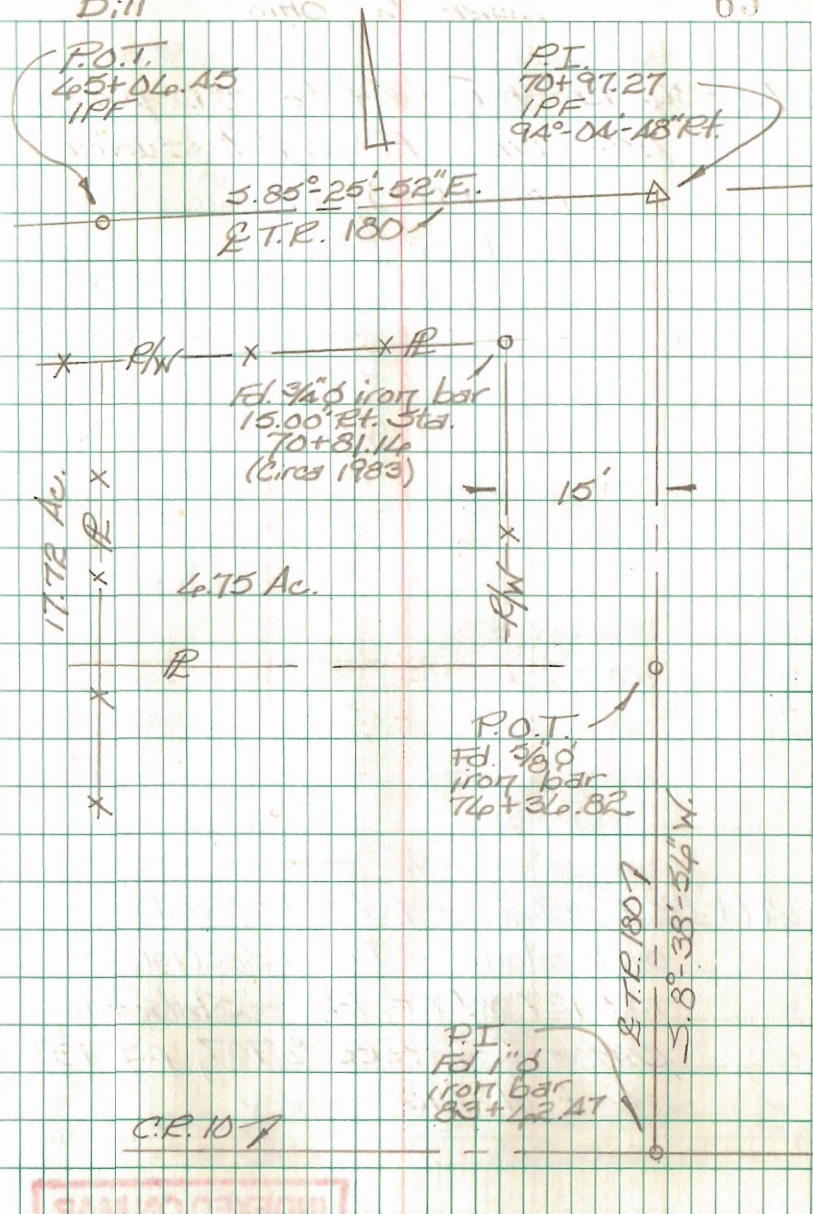
9655

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C.R. 10

P.I.
Fd. 1" dia.
iron bar
83+42.47

& T.R. 180
5.8°-38'-54" W.

Part of T.R. 127
 Jefferson Twp.
 Logan Co., Ohio

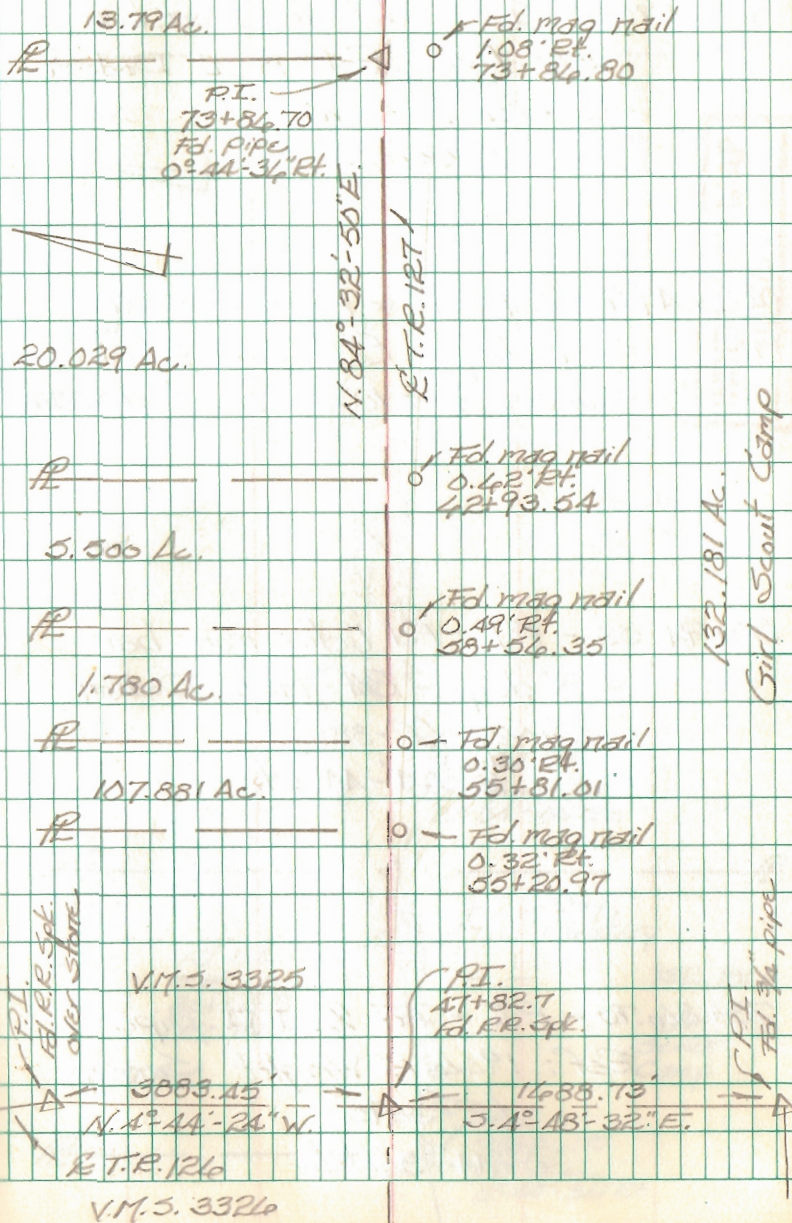
73+86.70 - P.I. - Fd. 1/2" I.D. pipe -
 Ref: 1966 F. Wright Survey
 (R-3895)
 0° 44' - 34" Et.

47+82.7 - P.I. - Fd. R.R. Spike
 over stone - Intersection
 T.R. 127 w/ T.R. 126 - Stationing
 comes from F.Bk. #707, pg. 73 -
 Start of this survey.

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 9456

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 C. Dill

Aug. 2011



Part of T.R. 127
Jefferson Twp.
Logan Co., Ohio

92+31.75 - P.I. - Fd. 1" dia. iron bar
≈ 8" deep - Ref: 1965 Dodson
Survey (R-3811)
1°-55'-04" Lt.

87+49.72 - P.O.T. - Fd. R.R. Spike
≈ 4" deep - Ref: 1998 Blackburn
Survey of a 10 Ac. tract (R-3811).

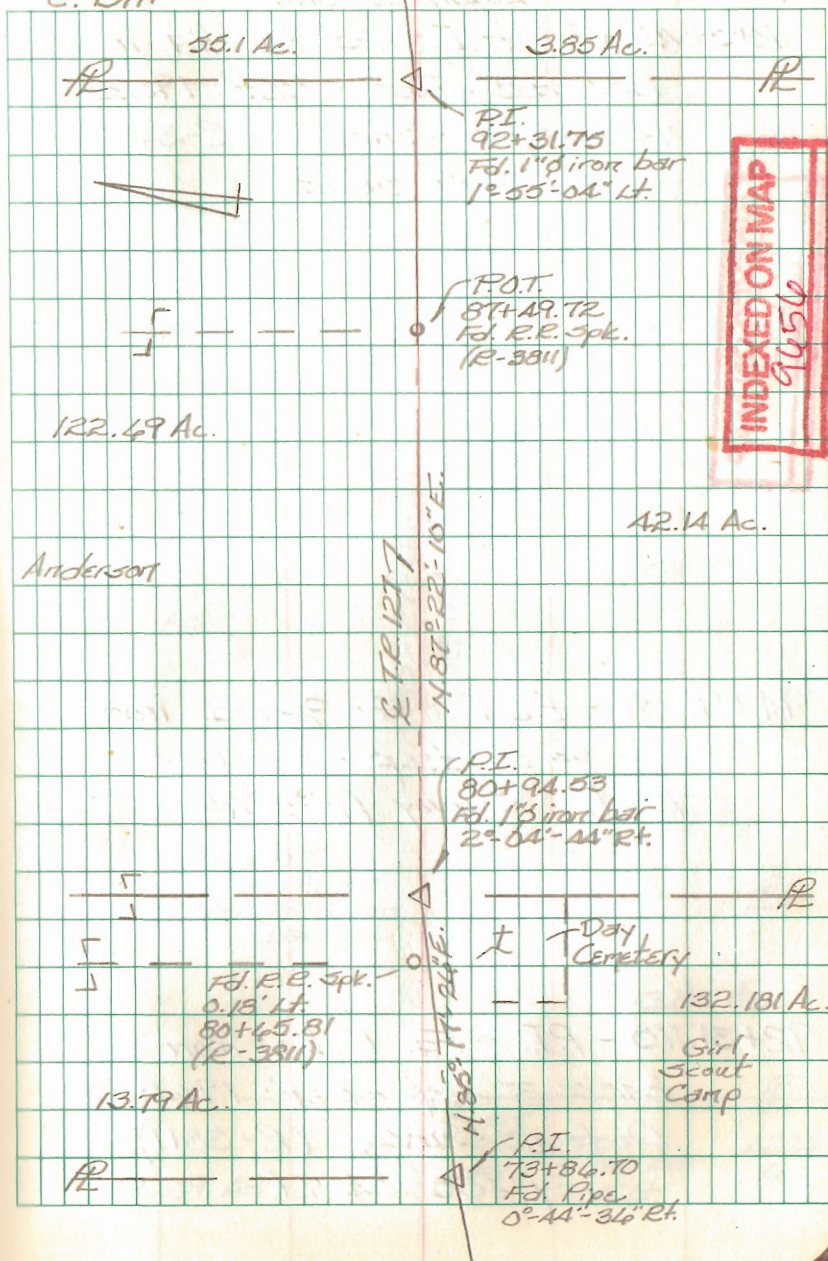
80+94.53 - P.I. - Fd. 1" dia. iron bar
≈ 8" deep - Ref: 1965 Dodson
Survey (R-3811).
2°-04'-11" Rt.

73+86.70 - P.I. - Fd. 1/2" I.D. pipe -
Ref: 1966 F. Wright Survey
(R-3895)
0°-11'-36" Rt.

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Part of T.R. 127
Jefferson Twp.
Logan Co. Ohio

105+48.92 - P.I. - Fd. $\frac{5}{8}$ " dia. iron
bar \approx 8" deep - Ref: 1962
F. Wright Survey (R-3492).
0°-19'-54" Rt.

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9/15/6

94+91.87 - P.O.T. - Fd. $\frac{5}{8}$ " dia. iron
bar \approx 8" deep - Ref: 1973
Kurtz Survey (R-5245).

92+31.75 - P.I. - Fd. 1" dia. iron
bar \approx 8" deep - Ref: 1945
Dodson Survey (R-3811)
1°-55'-04" Lt.

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2.08 Ac.

P.I.
105+48.92
Fd. $\frac{5}{8}$ " dia. iron bar
0°-19'-54" Rt. 13.3546
Ac.

Fd. $\frac{5}{8}$ " iron bar
0.42 Lt.
102+98.40
(R-5245)

55.1 Ac.

52.72 Ac.

1.85°-27'-06"E.
E.T.R. 127

P.O.T.
94+91.87
Fd. $\frac{5}{8}$ " dia. iron
bar

3.85 Ac.

122.49 Ac.

P.I.
92+31.75
Fd. 1" dia. iron bar
1°-55'-04" Lt. 42.14
Ac.

Part of T.R. 127
 Jefferson Twp.
 Logan Co., Ohio

125+07.13 - P.I. - Fd. 1" square iron
 bar \approx 8" deep - Show it as
 T.R. 129 sta. 3A+30 in F.B.K.#
 425, pg. 30. - End of this
 survey

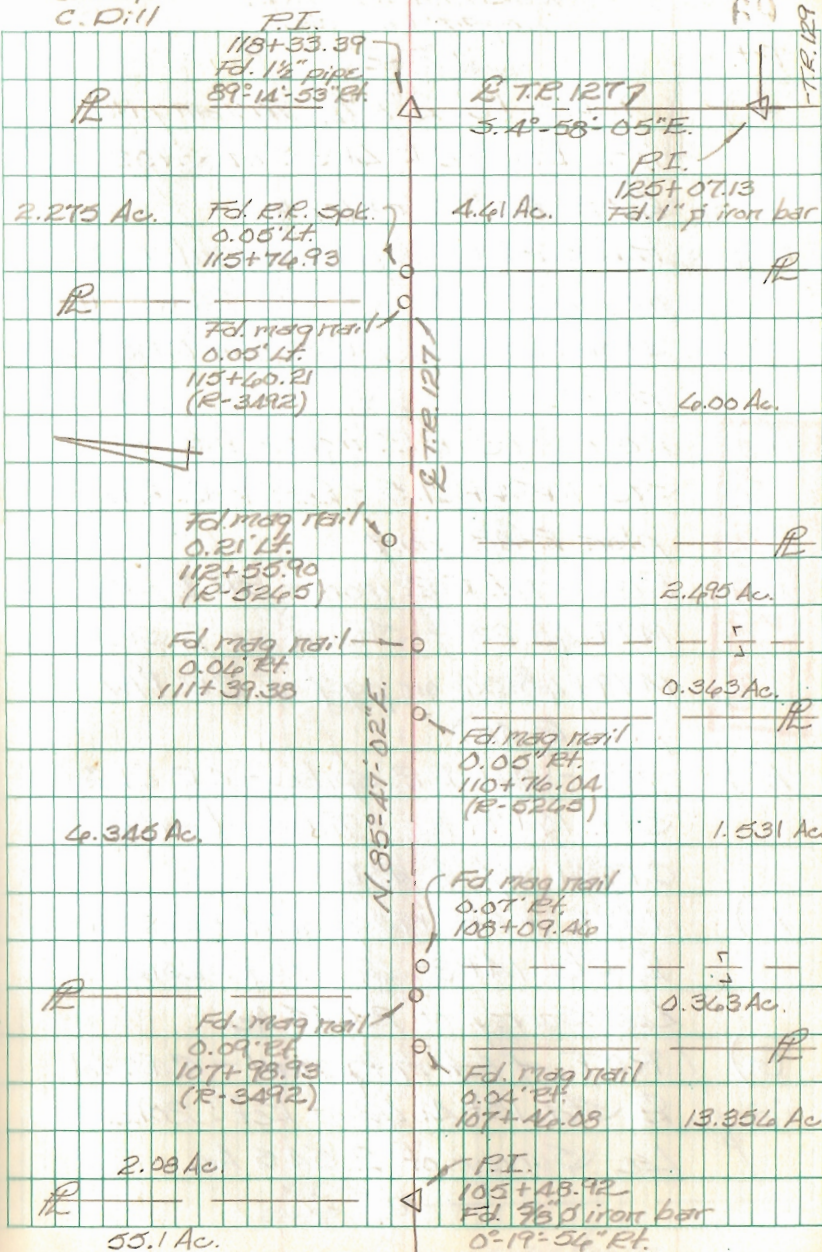
118+33.39 - P.I. - Fd. 1 1/2" I.D. pipe over
 stone - Ref: F.B.K. #425, pg. 30;
 1962 F. Wright Survey of
 10.70 Ac. tract.
 $89^{\circ}-14'-53"$ Rt.

INDEXED ON MAP
 9456

105+48.92 - P.I. - Fd. 3/8" dia. iron
 bar \approx 8" deep - Ref: 1962 F.
 Wright Survey of 10.70 Ac.
 tract (R-3492).
 $0^{\circ}-19'-54"$ Rt.

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 C. Dill

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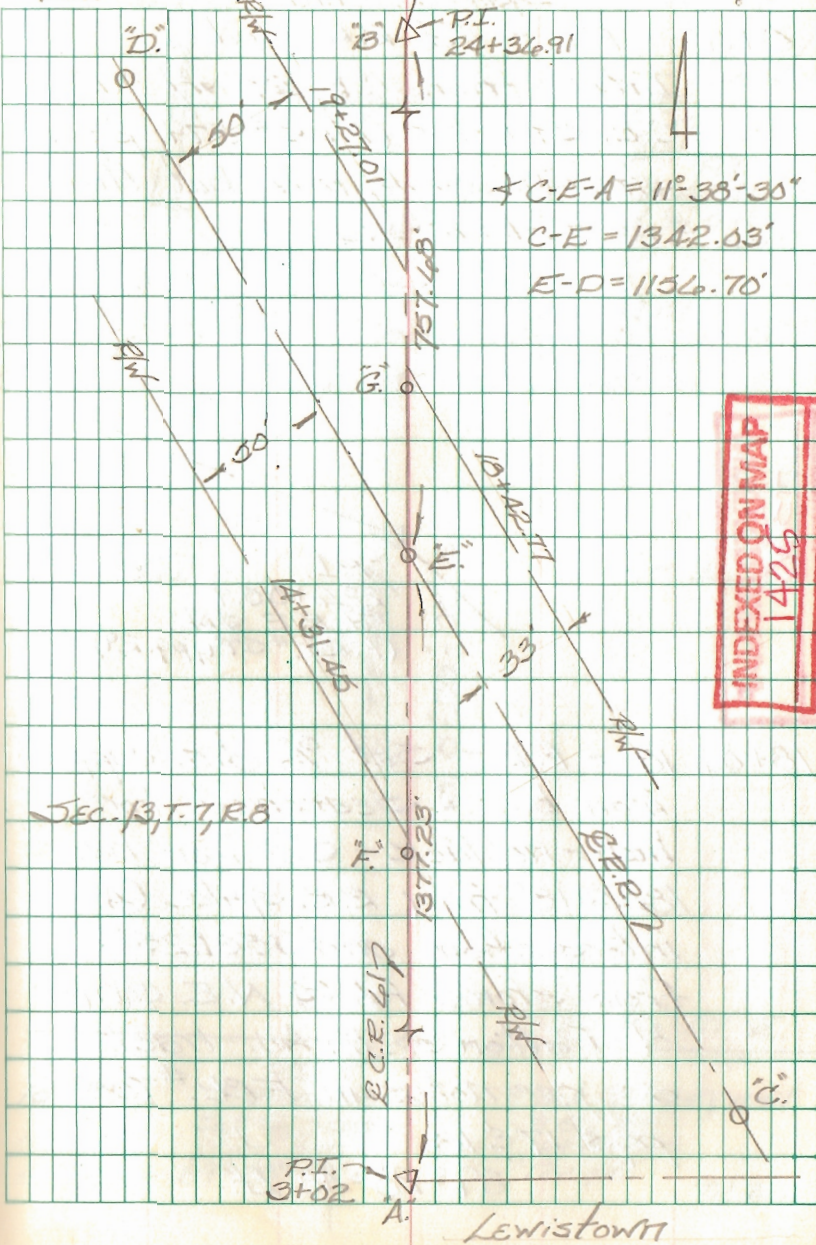
Intersection of C.R. 61 w/ E.R.R.
Washington Twp.
Logan Co., Ohio

- | Pt. | DESC. |
|-----|---|
| A.) | P.I. - Fd. 2" x 1/2" rectangular iron bar - C.R. 61 & Sta. 3+02 - Ref: F.Bk. # 560, pg. 40 |
| B.) | P.I. - Fd. 1" x 1/2" rectangular iron bar - C.R. 61 & Sta. 24+36.91 - shown as Sta. 24+37.8 in F.Bk. # 760, pg. 42. |
| C.) | P.O.T. - Fd. R.R. iron - R.R. & Sta. 1454+19.5 - Ref: R.R. R/W plan R-48, pg. 7 |
| D.) | P.O.T. - Fd. R.R. iron - R.R. & Sta. 1479+48.23 - shown as & Sta. 1479+48.06 on pg. 7 of R.R. R/W plan R-48. |
| E.) | P.I. - Set R.R. spike - C.R. 61 & Sta. 14+19.23 - Intersection of C.R. 61 w/ E.R.R. |
| F.) | P.O.T. - Fd. mag nail - C.R. 61 & Sta. 14+30.47 - Ref: 2012 Lee Survey of 2.545 Ac. |
| G.) | P.O.T. - Fd. mag nail - C.R. 61 & Sta. 18+41.42 - Ref: 2012 Lee Survey of 2.545 Ac. |

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Dappert
Dill

13 March 12

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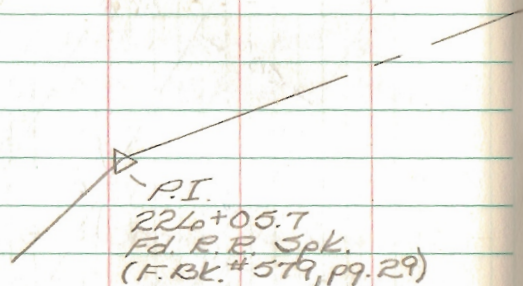


Part of T.R. 51
Richland Twp.
Logan Co., Ohio

0+00 - P.I. - Fd. R.R. Spike -

Intersection C.R. 39 w/ T.R. 51 -
C.R. 39 notes (F.BK. # 579, pg. 30)
show no angle here but there
is a slight one.

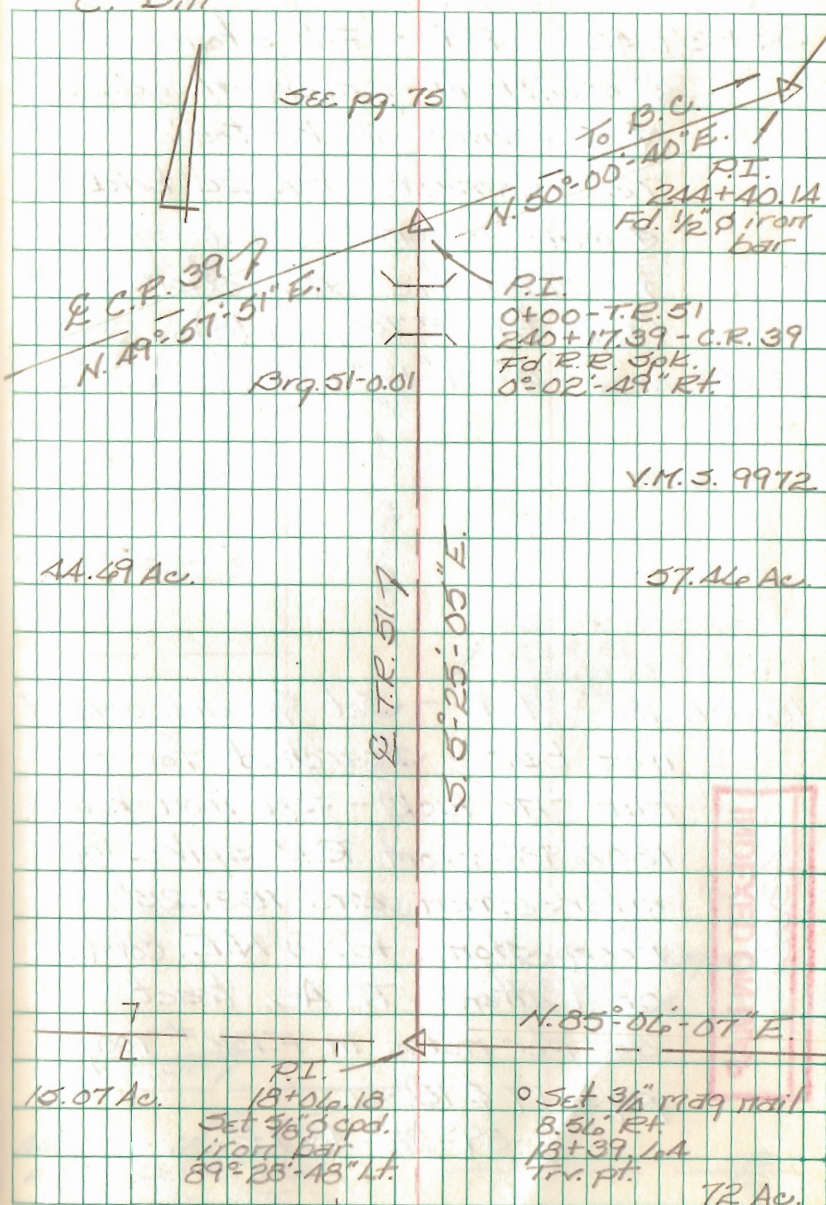
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436610



18+06.18 - P.I. - Set $\frac{3}{8}$ " dia. capped
iron bar - Searched for
hub - no luck - Set iron bar
1804.18' from R.R. spike @
intersection and 1531.25'
from stone fd. @ N.E. corner
of Patton's 72 Ac. tract
as per notes in F.BK. # 700,
pgs. 17 & 18.
89°-28'-48" Lt.

B. Simmons
G. Dappert
C. Dill

Sept. 2012



Part of T.R. 51
 Richland Twp.
 Logan Co., Ohio

33+37.43 - P.I. - Fd. stone \approx
 5' South of pavement edge -
 N.E. corner of Patton's
 72 Ac. tract. - Placed brick
 around stone + a R.R. spike
 for magnetic attraction.
 (Ref: F.B.K. # 700, pg. 18)
 $0^{\circ}01'17''$ Rt.

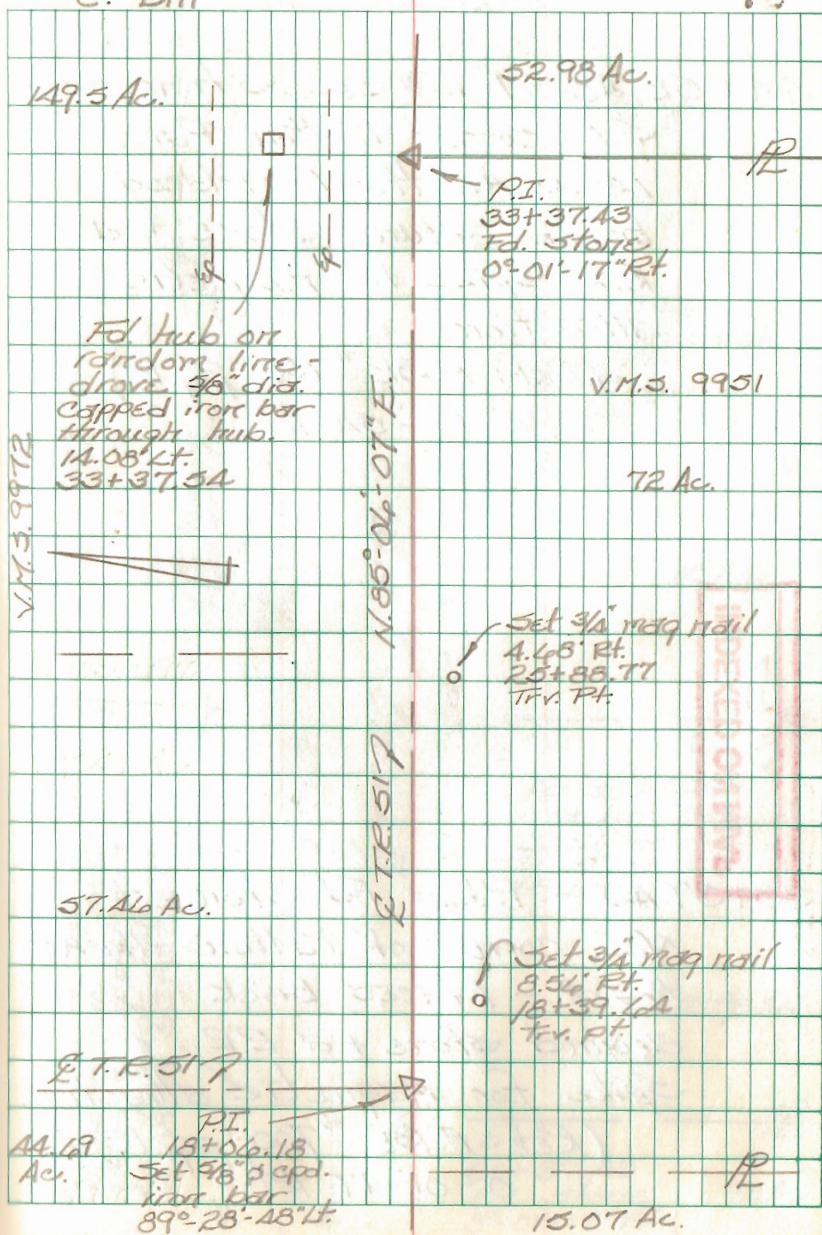
18+06.18 - P.I. - Set $\frac{3}{8}$ " dia. capped
 iron bar - Searched for
 hub - no luck - Set iron bar
 1804.18' from R.R. spike @
 intersection and 1531.25'
 from stone fd. @ N.E. corner
 of Patton's 72 Ac. tract
 as per notes in F.B.K. # 700,
 pgs. 17 & 18.
 $89^{\circ}28'48''$ Lt.

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4366

B. Simmons
 G. Dappert
 C. Dill

Sept. 2012

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Part of T.R. 51
 Richland Twp.
 Logan Co., Ohio

44+53.48 - P.I. - Fd. Stone -
 S.E. corner Patton Farms
 149.5 Ac. tract - Placed
 brick around stone + a
 R.R. Spike for magnetic
 attraction.

(Ref: F.B.K. #700, pg. 18)
 0°-22'-54" Rt.

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 4 Plate

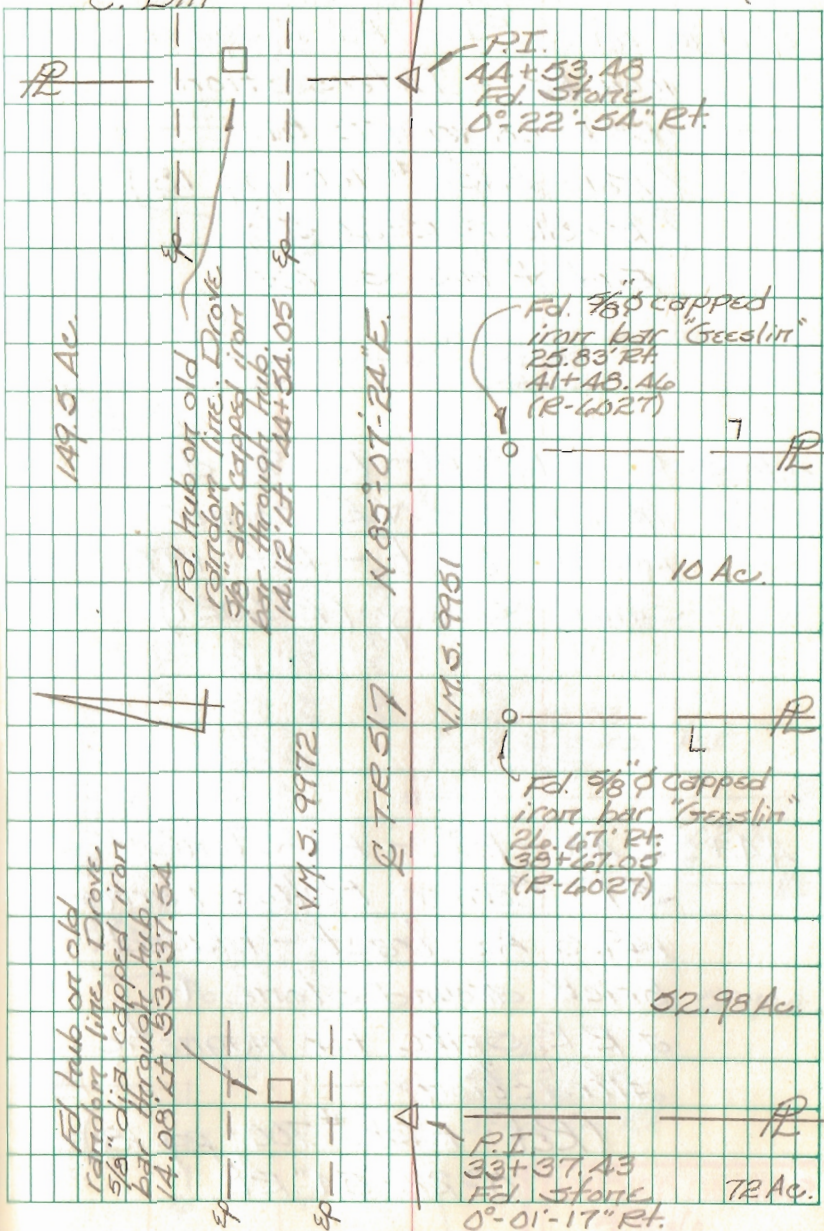
33+37.43 - P.I. - Fd. stone -
 N.E. corner of Patton's 72 Ac.
 tract - Placed brick
 around stone + a R.R.

Spike for magnetic attraction.
 (Ref: F.B.K. #700, pg. 18)
 0°-01'-17" Rt.

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 C. Dill

Sept. 2012

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Part of T.R. 51
Richland Twp.
Logan Co., Ohio

49+76.67 - P.I. - Fd. 1" square
iron bar - Intersection
U.S.R. 48 w/ T.R. 51.
(Ref: F.BK. #700; pg. 18)
(R-8105; R-4027)
End of this survey

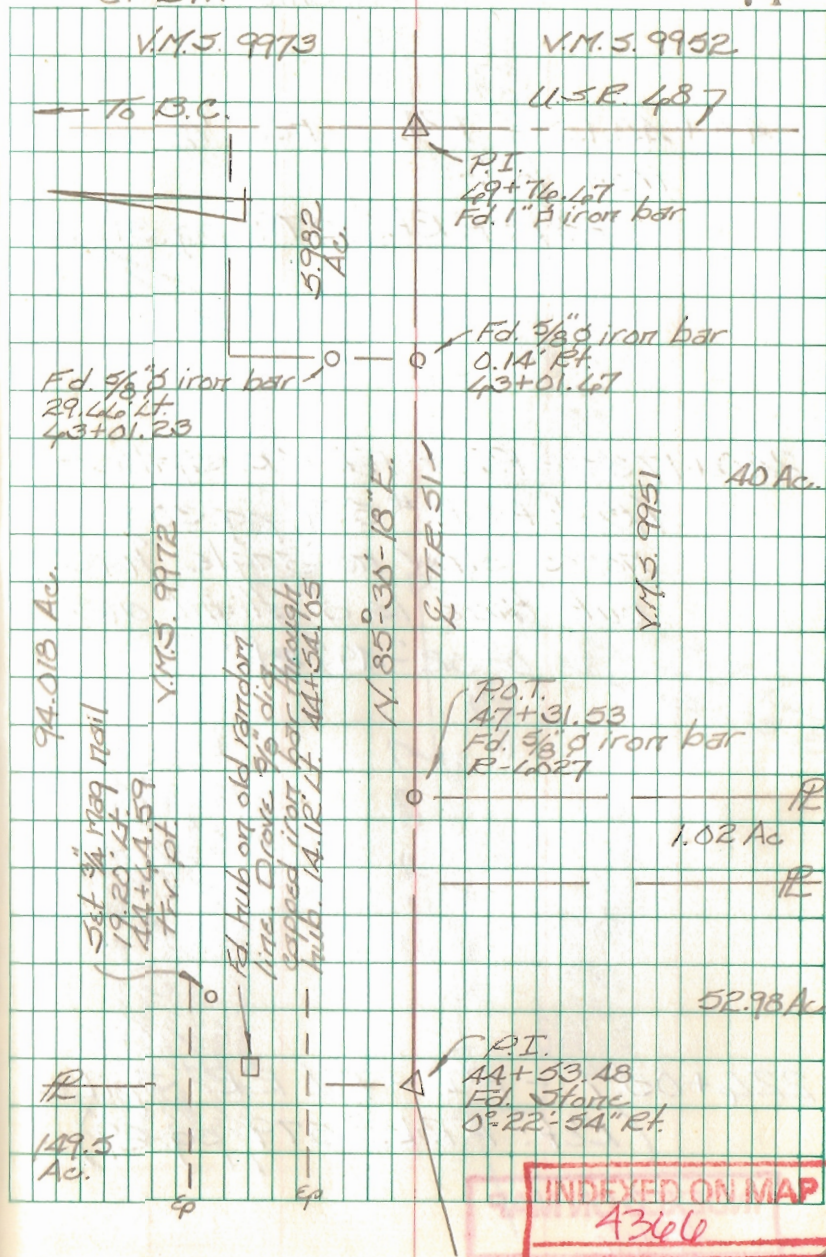
47+31.53 - P.O.T. - Fd. $\frac{5}{8}$ " dia.
iron bar - N.E. corner
1.02 Ac. tract - Ref: 1977
Shirk Survey (R-4027)

44+53.48 - P.I. - Fd. Stone -
S.E. Corner Patton Farms
149.5 Ac. tract - Placed
brick around stone +
a R.R. Spike for magnetic
attraction.
(Ref: F.BK. #700; pg. 18)
0°22'-54" Rt.

B. Simmons
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Sept. 2012

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Intersection C.R. 39 w/ T.R. 51
 Richland Twp.
 Logan Co., Ohio

244+40.14 - P.I. - Fd. $\frac{1}{2}$ " dia.
 iron bar
 (Ref: F.B.K.# 579, pg. 31)

240+17.39 - P.I. - Fd. R.R. Spike -
 (Ref: F.B.K.# 579, pg. 30)
 notes show no angle here
 but there is a slight one
 $0^{\circ}02'49''$ Rt.

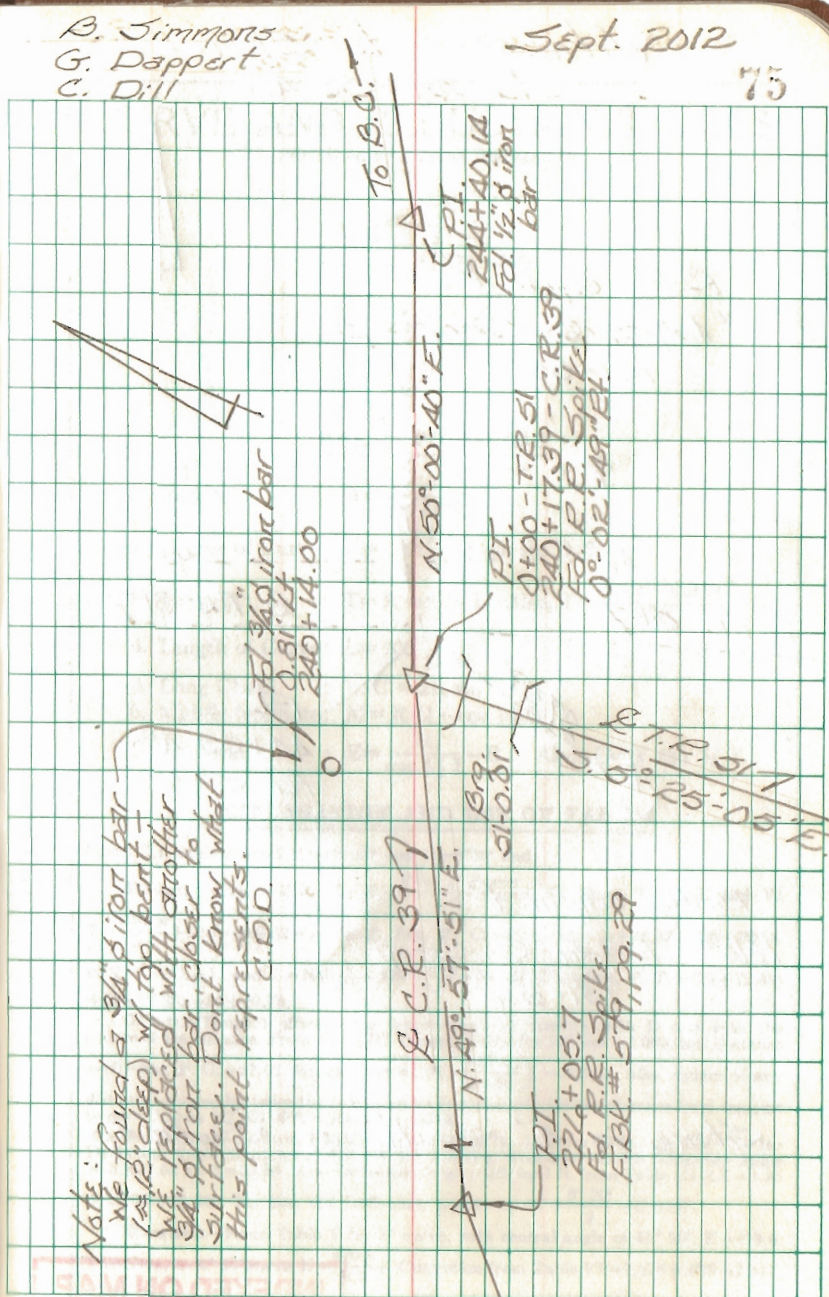
224+05.7 - P.I. - Fd. R.R. Spike
 (Ref: F.B.K.# 579, pg. 29)

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 C. Dill

Sept. 2012

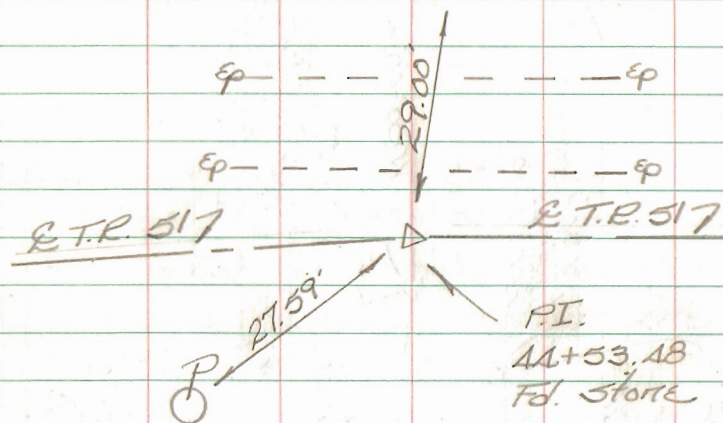
75

Note: we found a $\frac{3}{4}$ " dia iron bar
 (12" deep) w/ top bent
 we replaced with another
 $\frac{3}{4}$ " dia iron bar closer to
 surface. Don't know what
 this point represents.
 C.P.D.



Witnesses to Stone
Sta. 44+53.48

Bottle cap in ♂
Pole # Logan Co. Co-op
151-55



Bottle cap in ♂
Pole # Logan Co. Co-op
151-56

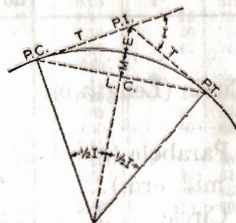
Stone is 4' South of South ep

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4366

CURVE AND REDUCTION TABLES

Published by Eugene Dietzgen Co.



CURVE FORMULAS

1. Radius : $R = \frac{50}{\sin D/2}$
2. Degree of Curve: $D = 100 \frac{I}{L}$. Also, $\sin D/2 = \frac{50}{R}$
3. Tangent : $T = R \tan \frac{1}{2} I$. Also, $T = \frac{T \text{ for } 1^\circ \text{ curve}}{D} + C$.
4. Length of Curve: $L = 100 \frac{I}{D}$
5. Long Chord : $L.C. = 2R \sin \frac{1}{2} I$.
6. Middle Ordinate: $M = R (1 - \cos \frac{1}{2} I)$
7. External : $E = \frac{R}{\cos \frac{1}{2} I} - R$. Also, $E = T \tan \frac{1}{4} I$.

EXPLANATION AND USE OF TABLES

Given P.I. Sta. 83+40.7, $I = 45^\circ 20'$ and $D = 6^\circ 30'$ find:

Stations—P.C. = P.I. - T. $T = \frac{T \text{ for } 1^\circ \text{ Curve}}{D} + C$. From Tables V and VI
 $T = \frac{2392.8}{6.5} + .197 = 368.32 = 3 + 68.32$. Sta. P. C. = 83+40.7 - (3+68.32) = 79+72.38.

P. T. = P. C. + L, and $L = 100 \frac{I}{D} = 100 \frac{45.33}{6.5} = 697.38$ Therefore, P. T. = (79+72.38) + (6+97.38) = 86+69.76.

Offsets—Tangent offsets vary (approximately) directly with D and with the square of the distance. From Table III Tangent Offset for 100 feet = 5.609 feet. Distance = 80 - Sta. P. C. = 27.62. Hence offset = $5.66 \times \left(\frac{27.62}{100}\right)^2 = .432$ ft. Also, square of any distance, divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(27.62)^2 \div (2 \times 881.95) = .432$ ft.

Deflections—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For "X" ft., Deflection Angle (in minutes) = $3 \times X \times D$. For Sta. 80 of above curve Deflection Angle = $3 \times 27.62 \times 6.5 = 53.86'$. Also Deflection Angle = $d \times I$, for 1 ft. from Table III $X \times X = 1.95 \times 27.62 = 53.86'$. For Sta. 181 Deflection Angle = $53.86' + \frac{6^\circ 30'}{2} = 4^\circ 8.86'$.

Externals—From Table V for 1° curve, with central angle of $45^\circ 20'$, $E = 479.6$. Therefore, for $6^\circ 30'$ curve, $E = \frac{479.6}{6.5} + \text{Correction from Table VI} = 7.378 + .039 = 7.417$.