

Sutherland - San Vicente Conduit

Index

Primary Triangulation

Starting from Ramona Base Line -- 1

Triangulation - Secondary Points -- 43

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F.B. # 214

5.15
346.95
352.10 H.I.
3.2
348.9

Primary Triangulation
Points. A

Starting from
Ramona Base Line

① TRANSIT Notes - TRIANGULATION
FROM S. end BASELINE, N. TOWARDS DAM

H L MAG B. TRV B. DIST

A C
205° 08' 00" R.
153° 51' 00" R.
102° 34' 00" R.
51° 17' 00" R.

ABL # 2
205° 08' 00" L.
153° 51' 00" L.
102° 34' 00" L.
51° 17' 00" L.

ABL # 1

A D
327° 00' 40" R.
272° 30' 00" R.
218° 00' 00" R.
163° 30' 00" R.
109° 00' 00" R.
54° 30' 00" R.

ABL # 2

A C
407° 01' 20" L.
305° 16' 0" L.
203° 30' 40" L.
101° 45' 20" L.

ABL # 2

A C
407° 01' 20" R.
305° 16' 0" R.
203° 30' 40" R.
101° 45' 20" R.

ABL # 2

N 40° 0' E

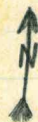
N 87° 30' E

MARCH 7TH, 1927
CLEAR & WARM

①

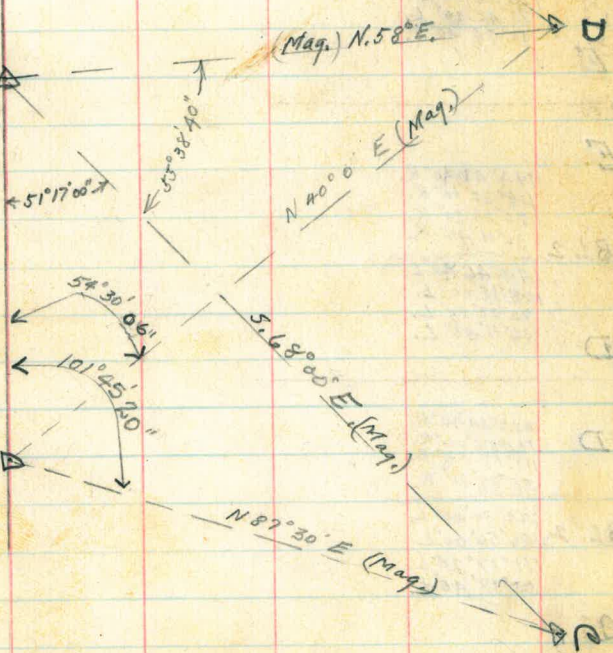
Ferguson - Chief
Andrews - T.
Hafferman - Rec.
Mattoon - Chain

②



Base Line
N 14° 30' W

B.L. 2



②

H. L. Mag B Tru B Dist

ABL #3 A
221°16'40" R.
184°23'20" R.
147°30'40" R.
110°38'00" R.
73°45'20" R.
36°52'40" R.

T.B.L. 2A
221°16'40" L.
184°23'20" L.
147°30'40" L.
110°38'00" L.
73°45'20" L.
36°52'40" L.

A E

A E
144°46'40" R.
108°35'00" R.
72°23'20" R.
36°11'40" R.

T.B.L. 2
144°46'40" L.
108°35'00" L.
72°23'20" L.
36°11'40" L.

A D

A D
222°34'40" R.
166°56'00" R.
111°17'20" R.
55°38'40" R.

T.B.L. #2
222°34'40" L.
166°56'00" L.
111°17'20" L.
55°38'40" L.

A C

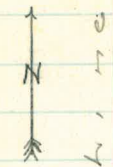
March 7th - 27

Ferguson - Chief
Andrews - Rec.
Hoffmann - Rec.
Mattoon - Chain

②
2

Clear - Warm

P.M. Cool



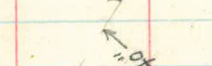
B.L.#3



E

$18^{\circ}20'$

B
e
s
e



B.L.2



D

C

(3)

H. L Mag B Tro B Dist

△ E

336° 24' 0" R
280° 20' 0" R
224° 16' 0" R
168° 12' 0" R
112° 08' 0" R
56° 04' 0" R

1/2

ABL #3

336° 24' 0" L
280° 20' 0" L
224° 16' 0" L
168° 12' 0" L
112° 08' 0" L
56° 04' 0" L

No 4 0' 0" L

△ D

△ D

343° 36' 40" R
274° 53' 20" R
206° 10' 0" R
137° 26' 40" R
68° 43' 20" R

1/2

ABL #3

343° 36' 40" L
274° 53' 20" L
206° 10' 0" L
137° 26' 40" L
68° 43' 20" L

No 3 0' 0" L

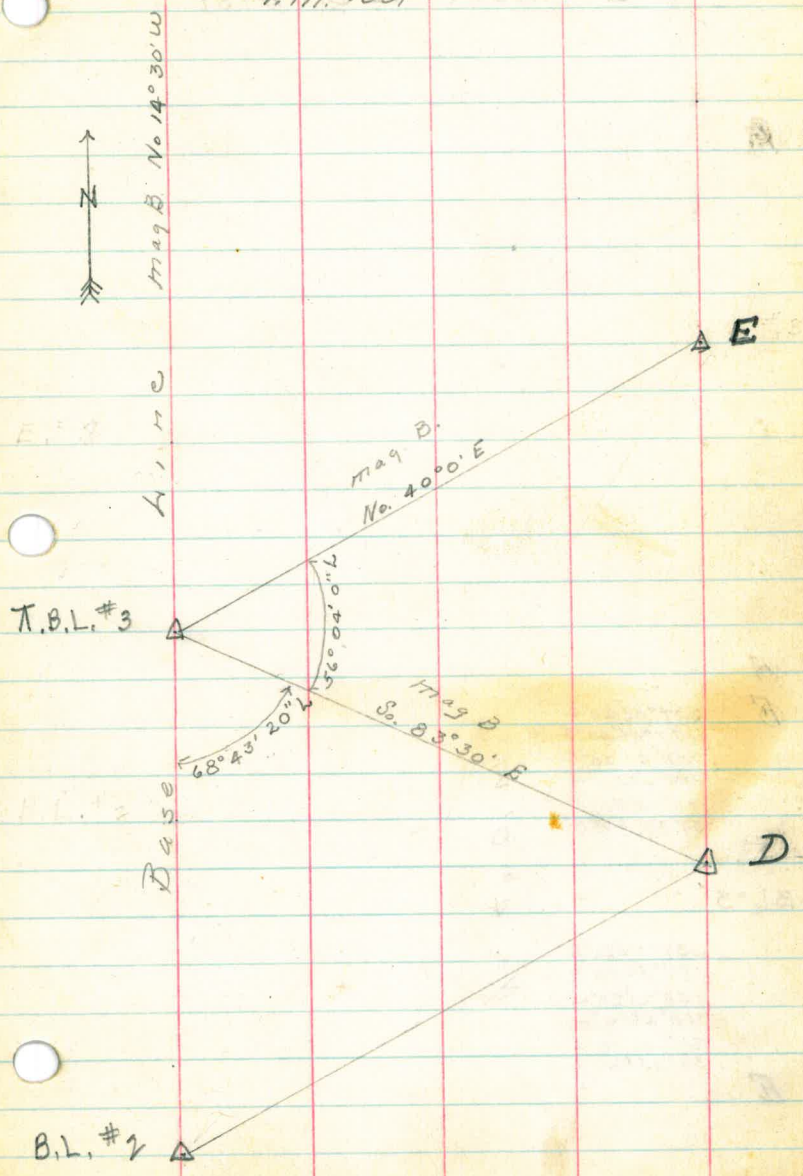
ABL #2

March 7th - 27

Ferguson - Chief
Andrews - Rec. 3
Hoffmann - Chain
Mattoon - Chain 3

Clear - Warm

P.M. Cool



(A)

Primary Points

H. L. MagB TruB Dist

Δ F
237°32'20"R
197°56'40"R
158°21'20"R
118°46'0"R
79°10'40"R
39°35'20"R

TLBL*3

237°32'20"L
197°56'40"L
158°21'20"L
118°46'0"L
79°10'40"L
39°35'20"L

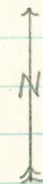
Δ E

No. 4° 0' W

March 7th - 27

Ferguson - Chief
Andrews - X
Hoffman - Rec ④
Mattoon - Chap 4

Clear - T.M. Cool



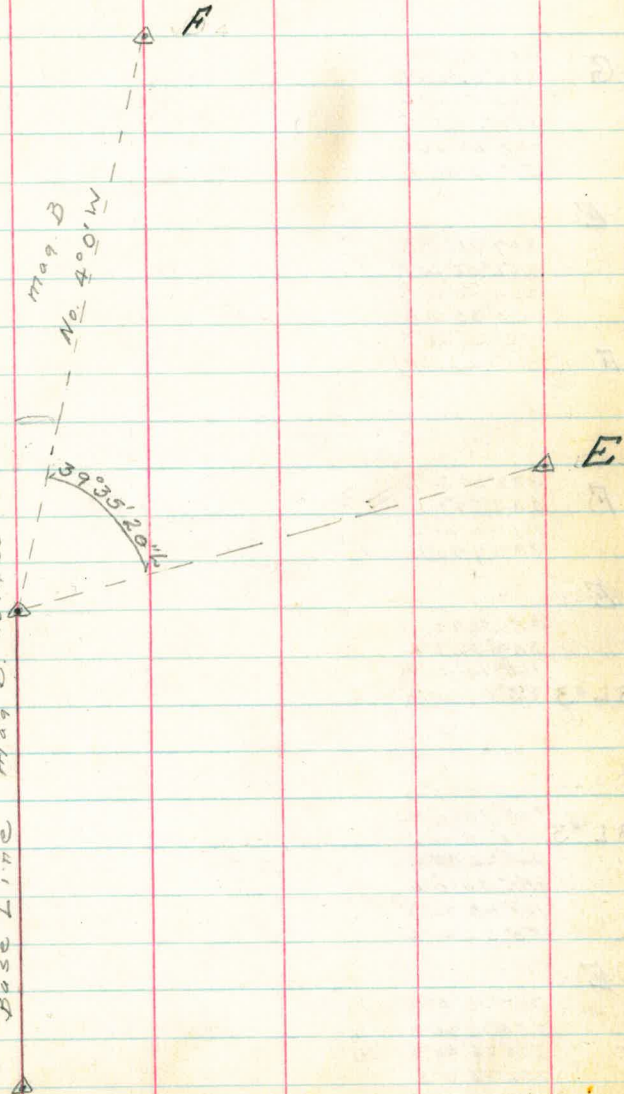
MON
BL. # 3

Mag B
No. 14° 30' W

Mag B
No. 4° 01' W

Base Line

MON
BL. # 2



5

Primary Points

H. L. Mag. B. Tru. B. Dist.

ΔG
307°16'0" L
256°03'20" L
204°50'40" L
153°38'0" L
102°25'20" L
51°12'40" L

πE

307°16'0" R
256°03'20" R
204°50'40" R
153°38'0" R
102°25'20" R
51°12'40" R

No. 900' W

ΔF

ΔF
332°29'20" L
249°22'0" L
166°14'40" L
83°07'20" L

πE

332°29'20" R
249°22'0" R
166°14'40" R

No. 5500' W

$\Delta BL \#3$

83°07'20" R

$\Delta BL \#5$

305°10'0" L
254°18'20" L
203°26'40" L
152°35'0" L
101°43'20" L
50°51'40" L

πE

305°10'0" R
254°18'20" R
203°26'40" R
152°35'0" R
101°43'20" R
50°51'40" R

No. 38°30' W

ΔD

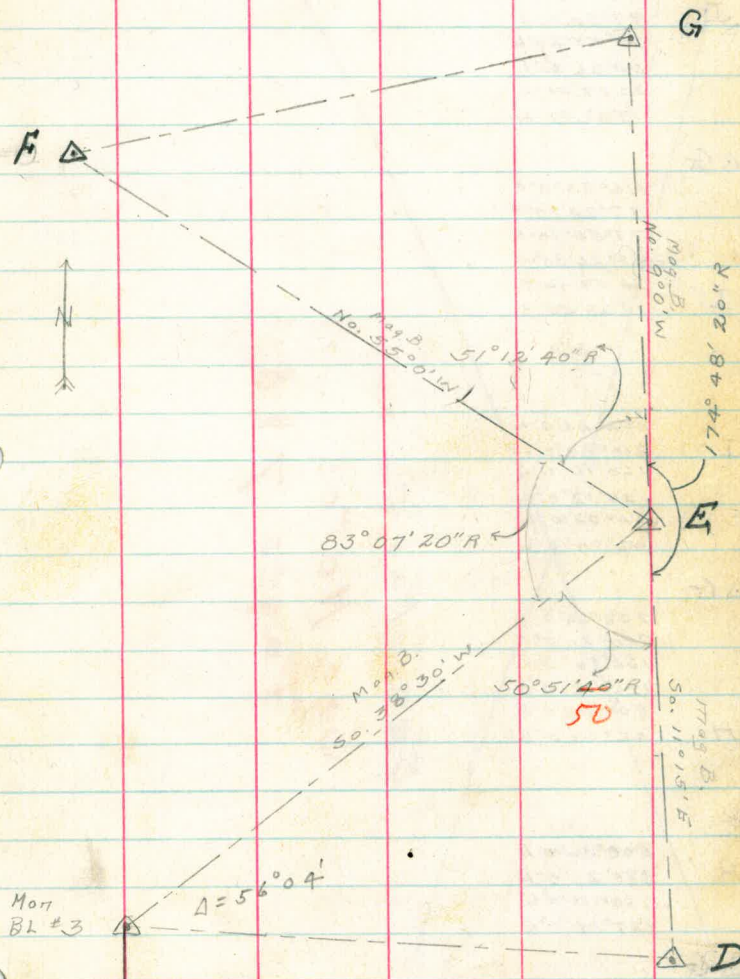
March 8th - 27

Cool - Cloudy

Ferguson - Chief
Andrews - T
Hoffman - Rec
Matto - Chas

5

5



⑥

Primary Points

H L Mag B. Tro B Dist

~~Δ J~~
~~116°53'0" L~~
~~97°24'10" L~~
~~77°55'20" L~~
~~58°26'30" L~~
~~38°57'40" L~~
~~19°28'50" L~~

~~TAG~~
~~116°53'0" R~~
~~97°24'10" R~~
~~77°55'20" R~~
~~58°26'30" R~~
~~38°57'40" R~~
~~19°28'50" R~~

~~Δ I~~

~~Δ I~~
~~252°24'0" L~~
~~210°20'0" L~~
~~168°16'0" L~~
~~126°12'0" L~~
~~84°08'0" L~~
~~42°04'0" L~~

~~TAG~~
~~252°24'0" R~~
~~210°20'0" R~~
~~168°16'0" R~~
~~126°12'0" R~~
~~84°08'0" R~~
~~42°04'0" R~~

~~Δ H~~

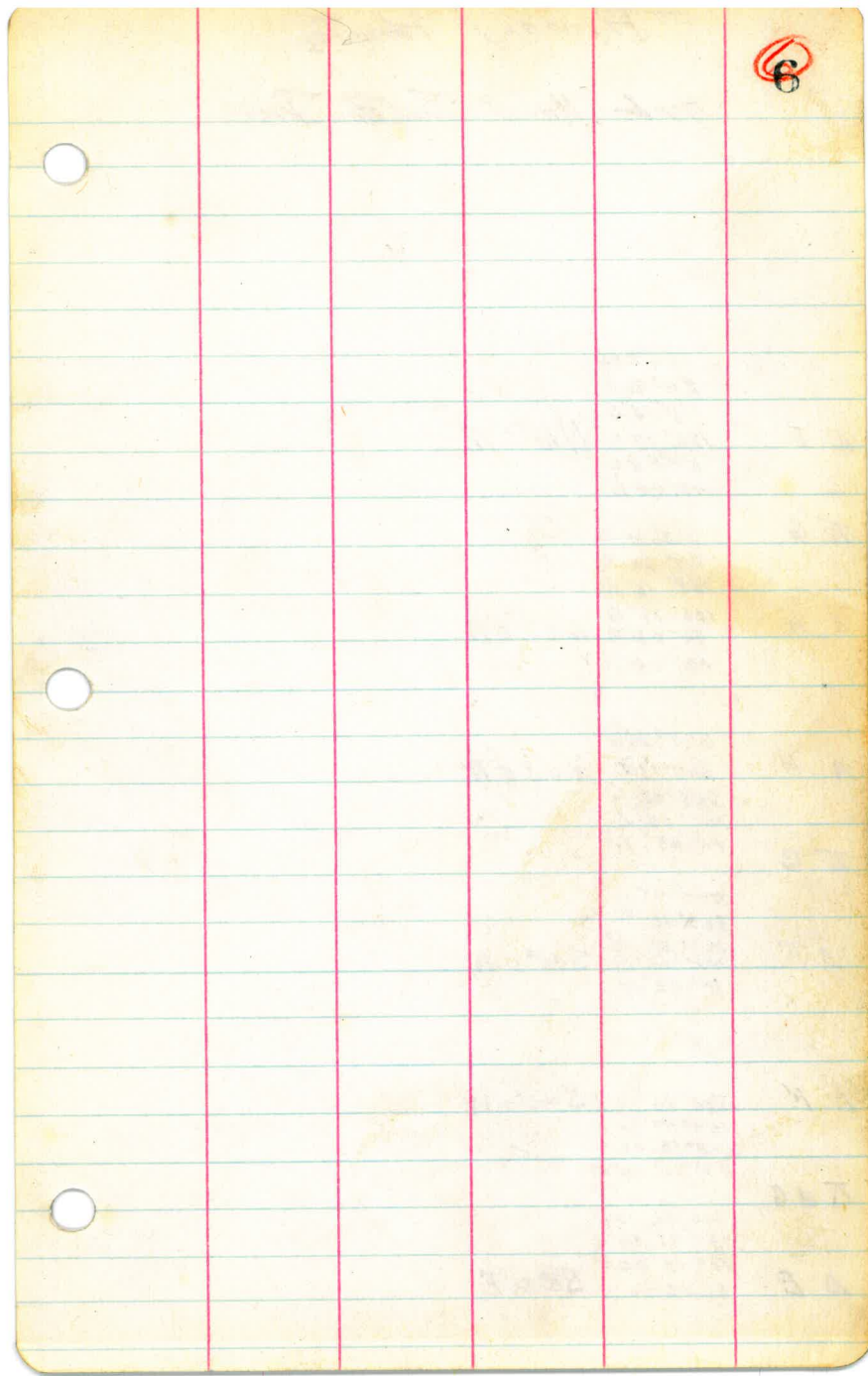
~~Δ H~~
~~508°36'0" L~~
~~381°27'0" L~~
~~254°18'0" L~~
~~127°09'0" L~~

~~TAG~~
~~508°36'0" R~~
~~381°27'0" R~~
~~254°18'0" R~~
~~127°09'0" R~~

~~Δ E~~

See Page

See Notes
Pages 7 & 8



⑦

PRIMARY Points

HOR L MAG 13 TRUC B. DIST.

252° 24' L
 210° 20' L
 188° 16' L
 A I 126° 12' L N 16° 0' W
 84° 08' L
 42° 04' L

252° 24' R
 210° 20' R
 168° 16' R
 A H 126° 12' R N 58° 0' W
 84° 08' R
 42° 04' R

377° 45' L
 A H 302° 12' L N 58° 0' W
 226° 39' L
 151° 06' L
 75° 33' L

377° 45' R
 302° 12' R
 226° 39' R
 A F 151° 06' R S 46° 0' W
 75° 33' R

A F 206° 26' 00" L S 46° 0' W
 154° 49' 30" L
 103° 13' 00" L
 51° 36' 30" L

TAG 206° 26' 00" R
 154° 49' 30" R

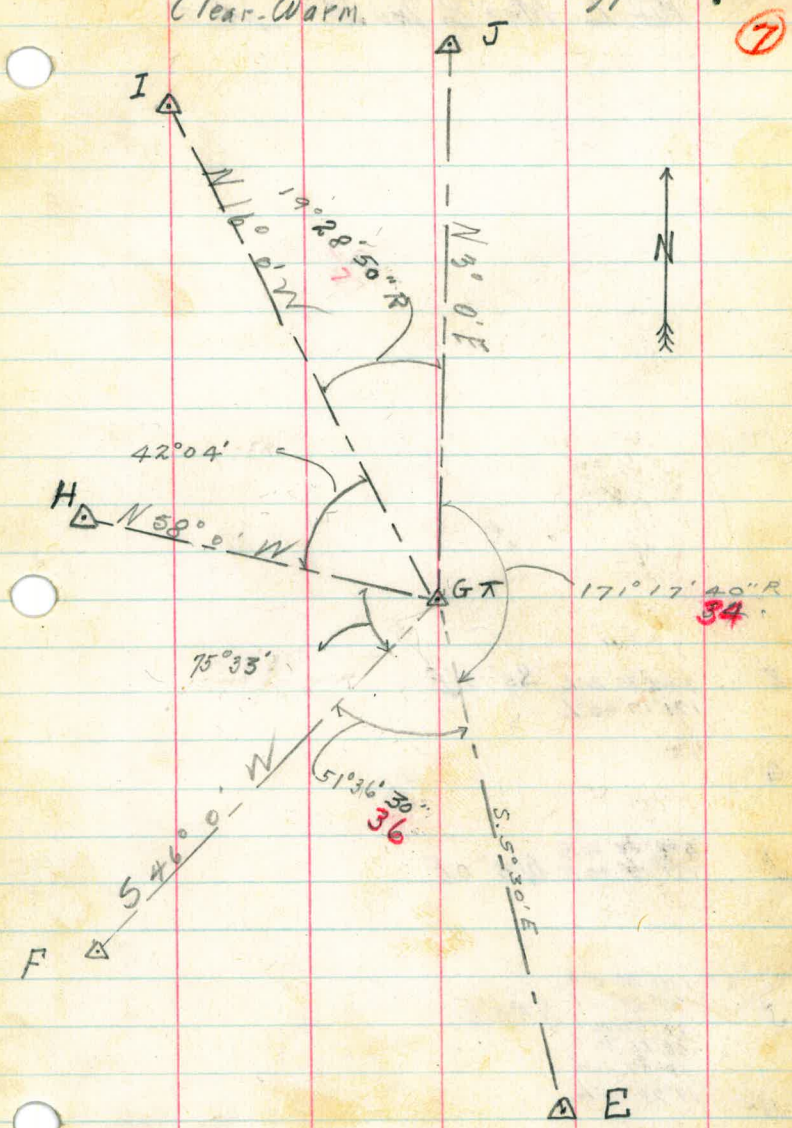
A E 103° 13' 00" R S 5° 30' E
 51° 36' 30" R

March - 11th

Clear - Warm.

Ferguson - Chief
Andrews - J
Heffernan - Rec

(7)



Primary Points

March 11th

(8) Hor. L Mac B. Tru B. Dist.

A E 342° 35' 20" L S5° 30' E
171° 17' 40" L

T G

A J 342° 35' 20" R N3° 0' E
171° 17' 40" R

A J 116° 56' 0" L N30° E
97° 24' 10" L
77° 55' 20" L
58° 26' 30" L
38° 57' 40" L
19° 28' 50" L

T G

A J 116° 53' 0" R N16° W
97° 24' 10" R
77° 55' 20" R
58° 26' 30" R
38° 57' 40" R
19° 28' 50" R

8a₈

TRIANGULATION
 ΔG
Direct

4/11/27

H.C. Ingle Invt.
Andrews Rec.

T G

Right

Left

H-I

42°04'05" ①

42°04'10"

84°08'10" ②

84°08'40"

252°25'20" ③

252°26'10"

I-J

19°28'50" ①

19°28'50"

38°57'40" ②

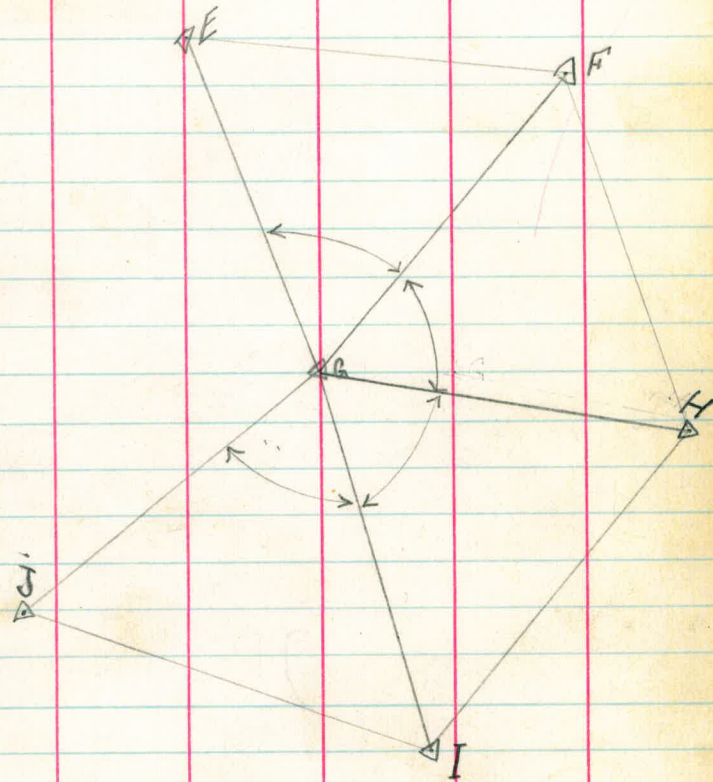
38°57'40"

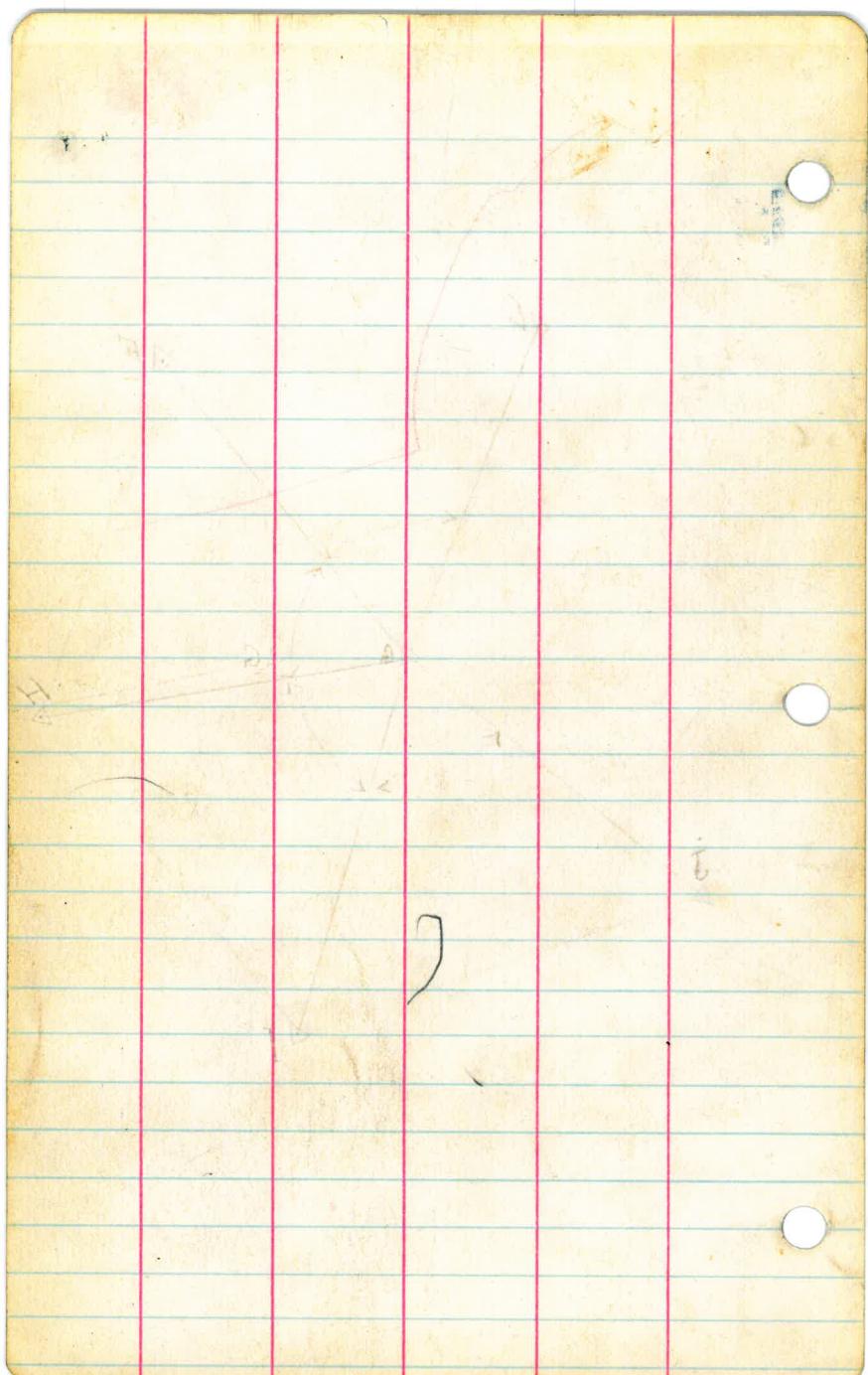
116°52'30" ③

116°52'30"

86

9





8

10

⑨ Primary Points

HOR L MARKS FURT Post

A B.L.3 } L,
343° 44' 00"
286° 26' 40"
229° 09' 20"
171° 52' 00"
114° 34' 40"
57° 17' 20" } S 21° W

A T.F. } R,
343° 44' 00"
286° 26' 40"
229° 09' 20"
171° 52' 00"
114° 34' 40"
57° 17' 20" }

A E } L,
385° 52' 40"
308° 42' 00"
231° 31' 30"
154° 20' 40"
77° 10' 20" } S 55° 0' E

A F } R,
385° 52' 40"
308° 42' 00"
231° 31' 30"
154° 20' 40"
77° 10' 20" }

A G } L,
183° 33' 20" L
152° 56' 40" L
122° 21' 20" L
91° 46' 00" L
61° 10' 40" L
30° 35' 20" L } N 47° 30' E

T F } R,
183° 33' 20" R
152° 56' 40" R
122° 21' 20" R
91° 46' 00" R
61° 10' 40" R
30° 35' 20" R } N 11° 30' E

A H } R,
183° 33' 20" R
152° 56' 40" R
122° 21' 20" R
91° 46' 00" R
61° 10' 40" R
30° 35' 20" R }

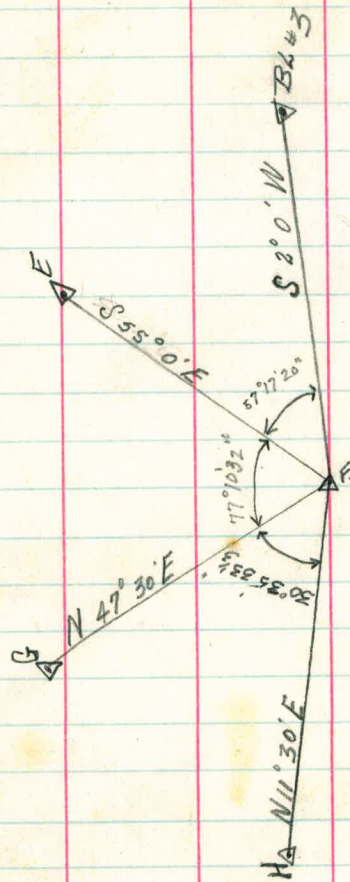
March 15th

Clear War. 177

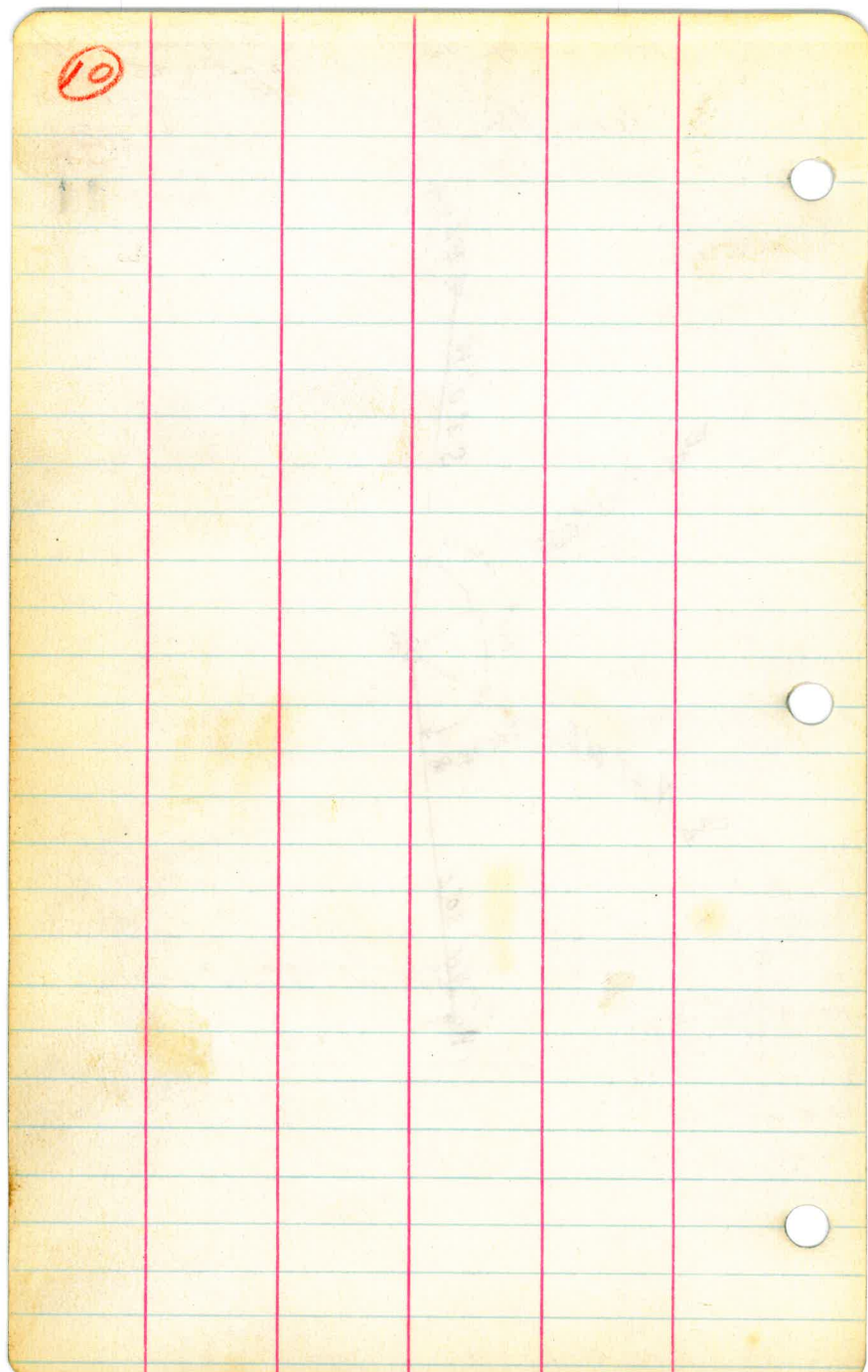
Ferguson Chief
Andrews - T
Mottook Chain

⑨

11



10



10

12

(11)

Primary Points

H. L. Mag. B. Tru B. Dist

ΔBL#3

146° 40' 0" L
128° 20' 0" L
110° 0' 0" L
91° 40' 0" L
73° 20' 0" L
55° 0' 0" L
36° 40' 0" L
18° 20' 0" L

π Δ E

146° 40' 0" R
128° 20' 0" R
110° 0' 0" R
91° 40' 0" R
73° 20' 0" R
55° 0' 0" R
36° 40' 0" R
18° 20' 0" R

ΔBL#2

260° 13' 20" L
227° 41' 40" L
195° 10' 0" L
162° 38' 20" L
130° 06' 40" L
97° 35' 0" L
65° 03' 20" L
32° 31' 40" L

π Δ E

260° 13' 20" R
227° 41' 40" R
195° 10' 0" R
162° 38' 20" R
130° 06' 40" R
97° 35' 0" R
65° 03' 20" R
32° 31' 40" R

ΔD

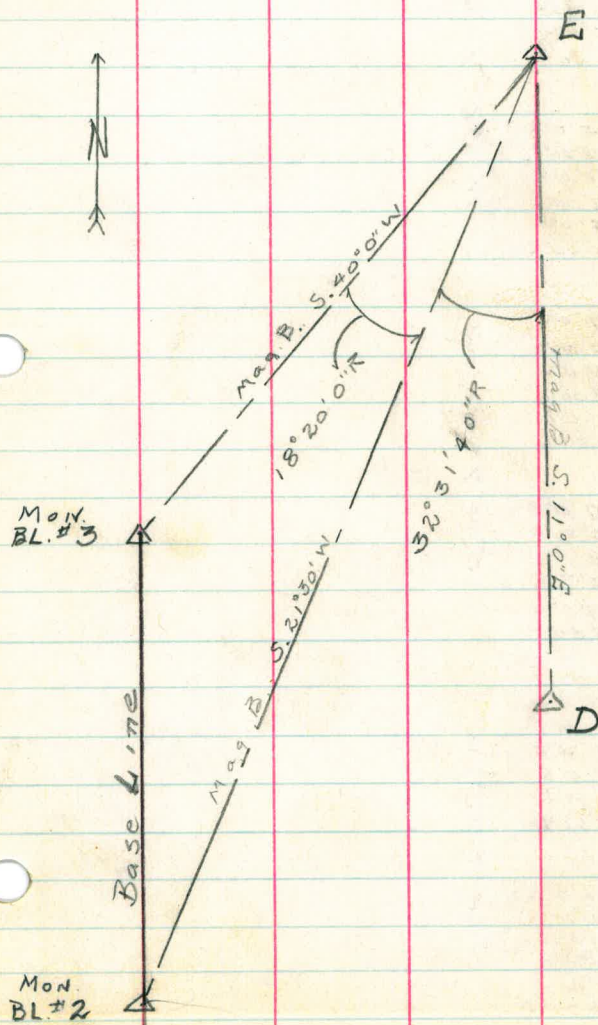
March 16th - 27

Clear - Warm - Windy

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Chain

①

13



⑫ Primary Points

H. L. Mag B. Tru B. Dist

Cont Notes Page 13

Δ BL #3
229°15'0" L
191°02'30" L
152°50'0" L
114°37'30" L
76°25'0" L
38°12'30" L

π Δ D

229°15'0" R
191°02'30" R
152°50'0" R
114°37'30" R
76°25'0" R
38°12'30" R

N. 86° 0' W

Δ BL #2
111°27'0" L
92°52'30" L
74°18'0" L
55°43'30" L
37°09'0" L
18°34'30" L

π Δ D

111°27'0" R
92°52'30" R
74°18'0" R
55°43'30" R
37°09'0" R
18°34'30" R

N. 70° 30' W

Δ BL #1
207°14'0" L
172°41'40" L
138°09'20" L
103°37'0" L
69°04'40" L
34°32'20" L

π Δ D

207°14'0" R
172°41'40" R
138°09'20" R
103°37'0" R
69°04'40" R
34°32'20" R

N. 15° W

Δ C

March - 16th - 7

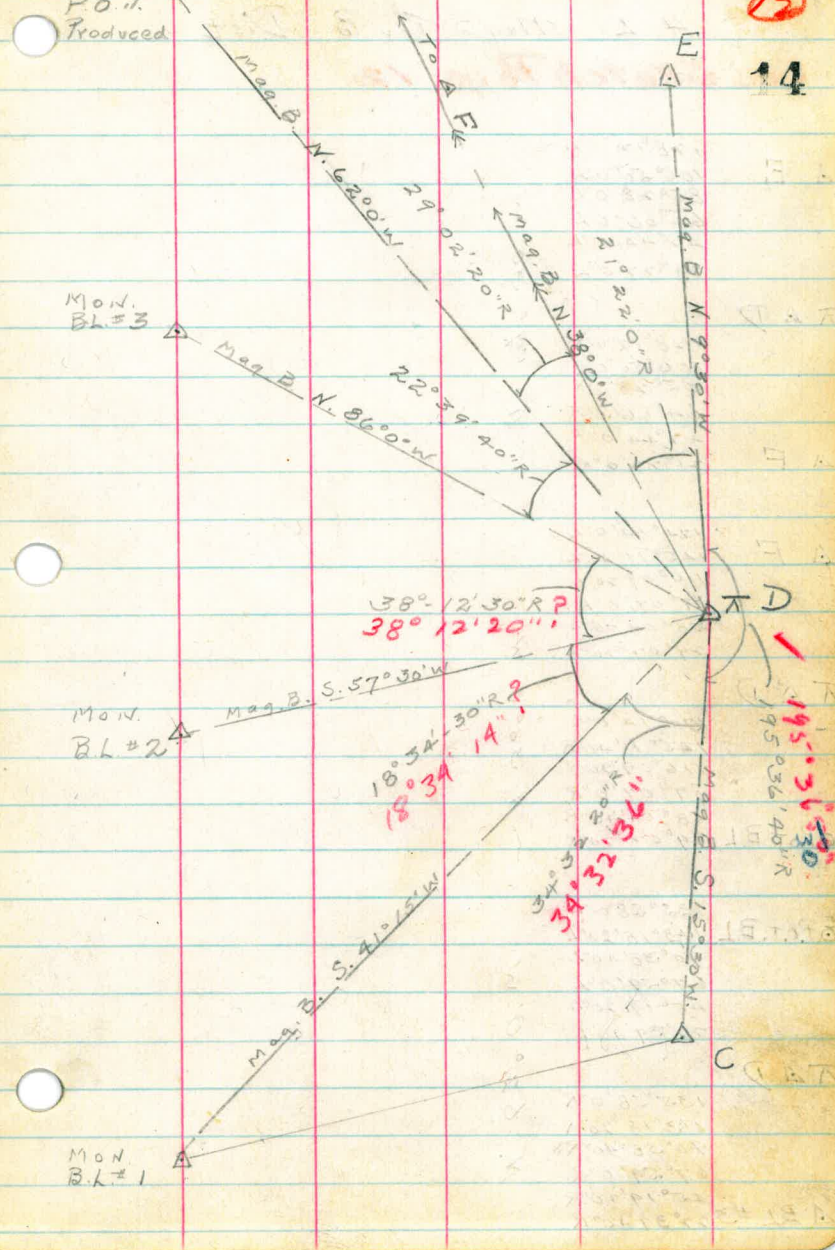
Clear - Warm

184950301
Andrews
Heffernan
MATTROON
Chief
A
K
Chain

Hub BL
PO. T.
Produced

12

14



⑬ Primary Points

H. L. Mag B Tru B Dist

See Sketch Page 12

Δ E
 128°12'0" L
 106°50'0" L
 85°28'0" L
 64°06'0" L
 42°44'0" L
 21°22'0" L

N. 9°30' W

△ A D
 128°12'0" R
 106°50'0" R
 85°28'0" R
 64°06'0" R
 42°44'0" R
 21°22'0" R

N.

Δ F
 174°14'0" L
 145°11'40" L
 116°09'20" L
 87°07'0" L
 58°04'40" L
 29°02'20" L

N

△ P.O.T. B L
 174°14'0" R
 145°11'40" R
 116°09'20" R
 87°07'0" R
 58°04'40" R
 29°02'20" R

N. 58°0' W

△ P.O.T. B L
 135°58'0" L
 113°18'20" L
 90°38'40" L
 67°59'0" L
 45°19'20" L
 22°39'40" L

N. 62°0' W

△ A D
 135°58'0" R
 113°18'20" R
 90°38'40" R
 67°59'0" R
 45°19'20" R
 22°39'40" R

Δ BL #3

13

15

(14)

Primary Points

H.L. Mag B Tro B. Dist

ΔC
 $162^{\circ} 0' 30'' L$
 $135^{\circ} 0' 45'' L$
 $108^{\circ} 0' 20'' L$
 $81^{\circ} 0' 15'' L$
 $54^{\circ} 0' 10'' L$
 $27^{\circ} 0' 05'' L$

N. $53^{\circ} 0' E$

$\pi \in$ HwyWay

$162^{\circ} 0' 30'' R$
 $135^{\circ} 0' 25'' R$
 $108^{\circ} 0' 20'' R$
 $81^{\circ} 0' 15'' R$

N.

ΔD
 $54^{\circ} 0' 10'' R$
 $27^{\circ} 0' 05'' R$

ΔD
 $249^{\circ} 33' 36'' L$
 $207^{\circ} 58' 0'' L$
 $166^{\circ} 22' 24'' L$
 $124^{\circ} 46' 48'' L$
 $83^{\circ} 11' 12'' L$
 $41^{\circ} 35' 36'' L$

N $26^{\circ} 15' E$

$\pi \in$ HwyWay

$249^{\circ} 33' 36'' R$
 $207^{\circ} 58' 0'' R$
 $166^{\circ} 22' 24'' R$
 $124^{\circ} 46' 48'' R$
 $83^{\circ} 11' 12'' R$

$\Delta BL * 1$
 $41^{\circ} 35' 36'' R$

\in HwyWay
 $354^{\circ} 0' 0'' R$
 $265^{\circ} 30' 0'' R$
 $177^{\circ} 0' 0'' R$
 $88^{\circ} 30' 0'' R$

$\pi \in$ HwyWay

$354^{\circ} 0' 0'' L$
 $265^{\circ} 30' 0'' L$
 $177^{\circ} 0' 0'' L$

$\Delta BL * 1$
 $88^{\circ} 30' 0'' L$

MARCH-17th-27

Kerguson, Chief
Andrews, T
Heffernan, T
Mattoon, Chief

Clear-Warm

Mon
BL#2

16



36"
T.W. B. N. 101.5' W
Base Line

MON
BL#1

88°30'0" L

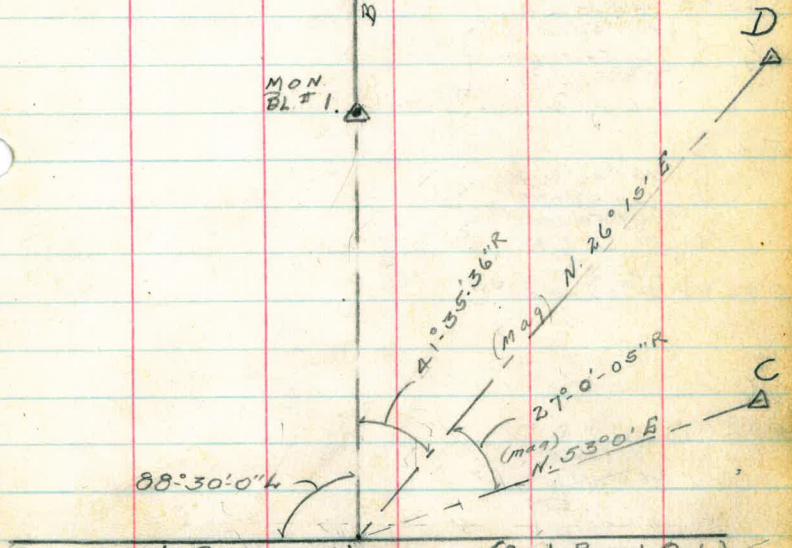
41°35'36" R
(Mag)

27°0'05" R
(Mag)
N. 53°0' E

N. 26°15' E

⊕ Paved Highway (So. 1/2 Paved Only)

⊕ Int. B.L. & ⊕ Highway
(Red Head)



15 Primary Points

HL Mag B Tru B Dist

AD: 284°58'0" L
213°43'30" L
142°29'0" L
71°14'30" L

TAC: 284°58'0" R
213°43'30" R
142°29'0" R
ΔBL #2 71°14'30" R

ΔBL #2: 161°46'0" L
134°48'20" L
107°50'40" L
80°53'0" L
53°55'20" L
26°57'40" L

TAC: 161°46'0" R
134°48'20" R
107°50'40" R
80°53'0" R
53°55'20" R
ΔBL #1 26°57'40" R

ΔBL #1: 198°56'0" R
165°46'40" R
132°37'20" R
99°28'0" R
66°18'40" R
33°09'20" R

TAC: 198°56'0" L
165°46'40" L
132°37'20" L
99°28'0" L

Int BL
+ E Highway 66°18'40" L
33°09'20" L

E

N

N. 66°15' W

S. 86°30' W

March-17th-27 -

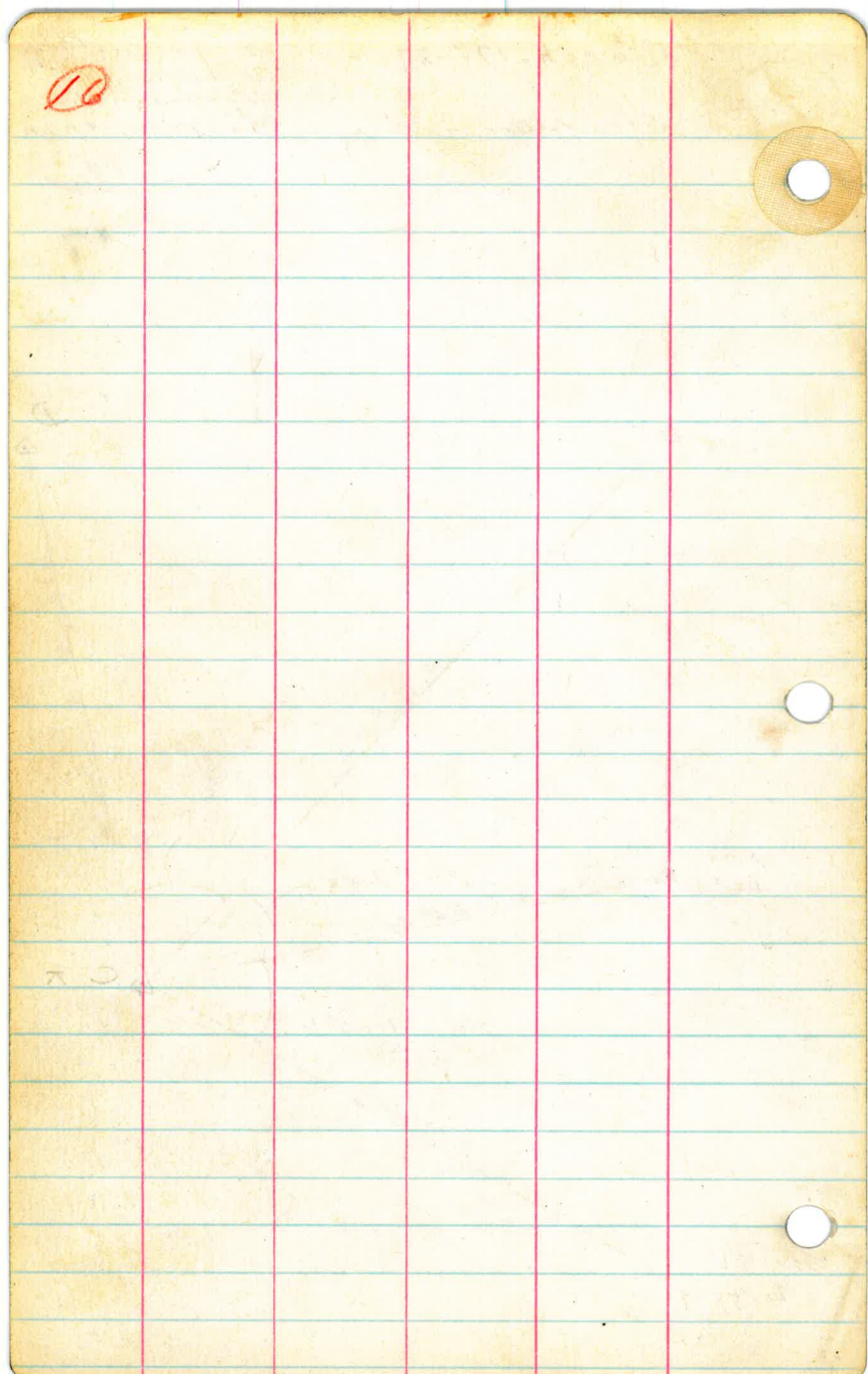
Clear-Warm-Windy

Ferguson-Chief
Andrews - X
Hefferman - Rec
Mattoon - Chair

(15)

17

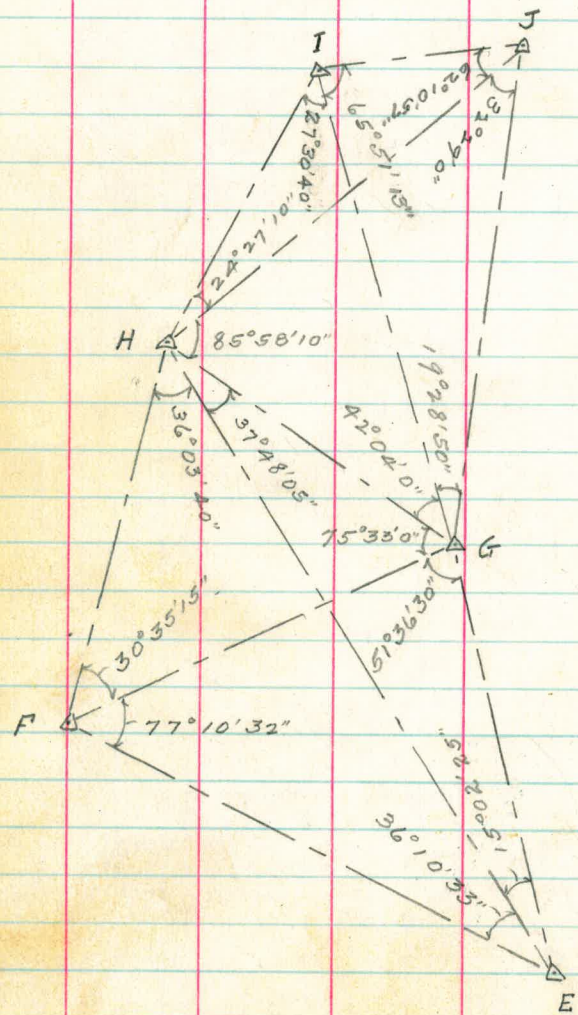




18

16a

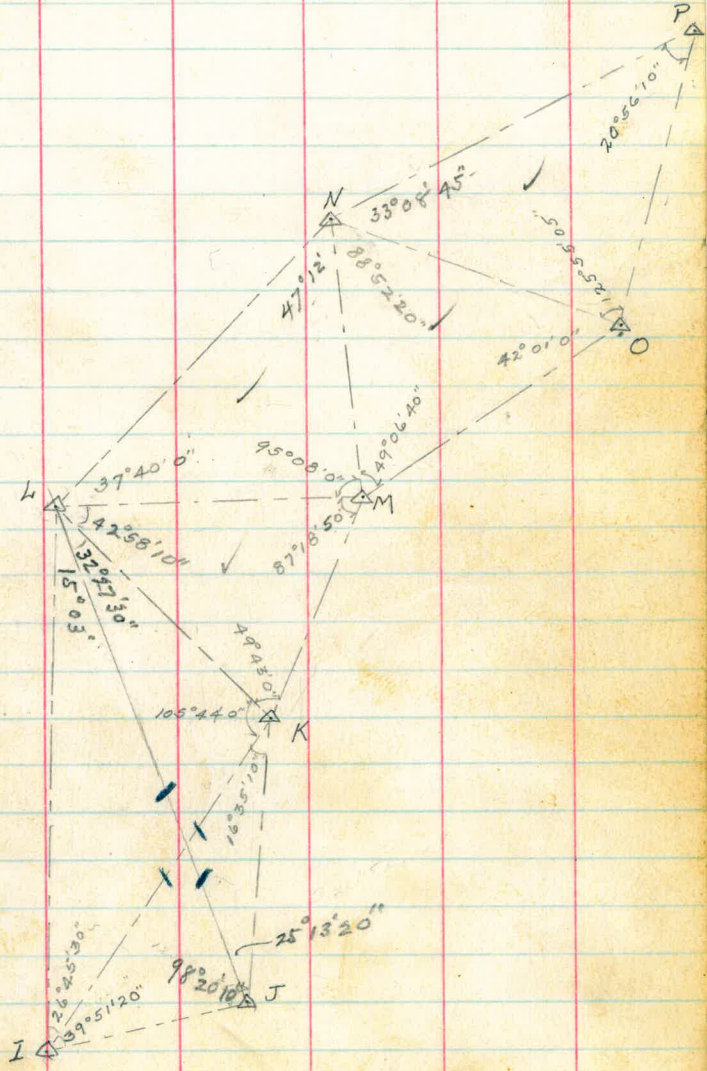
Primary Points



Primary Points

166

19



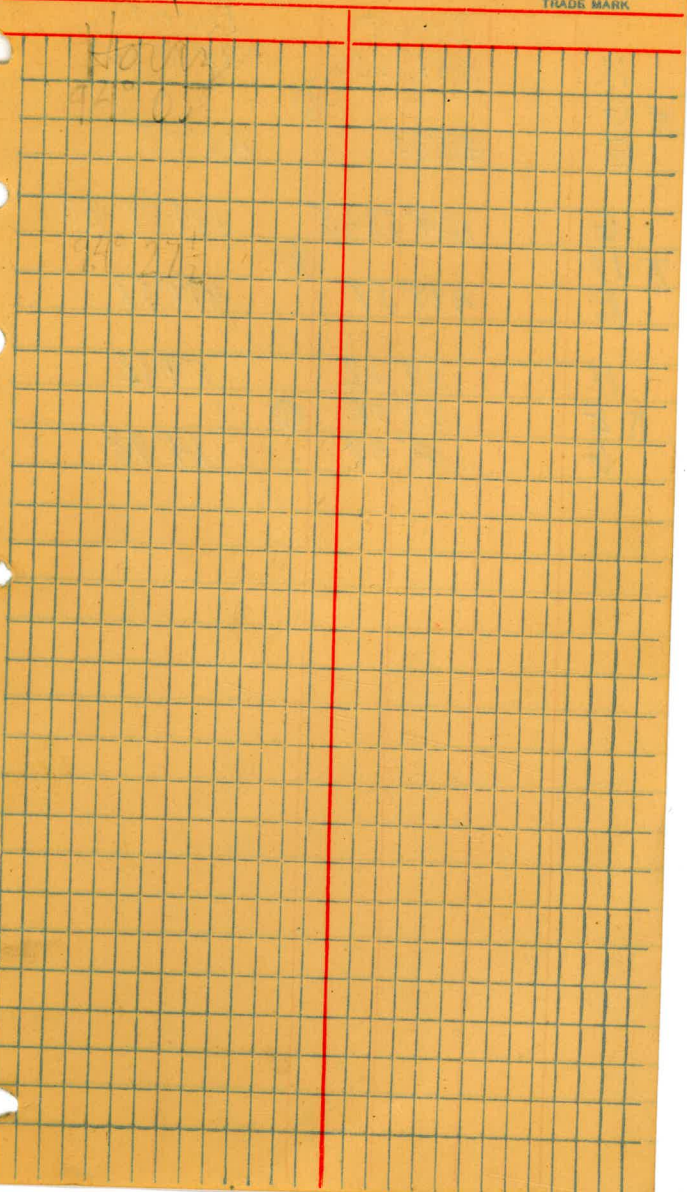
161

17a

TRADE MARK

ORIGINAL COPY, 1970 BY C. PARKER

LEWIS, PHILADELPHIA, PA.
16

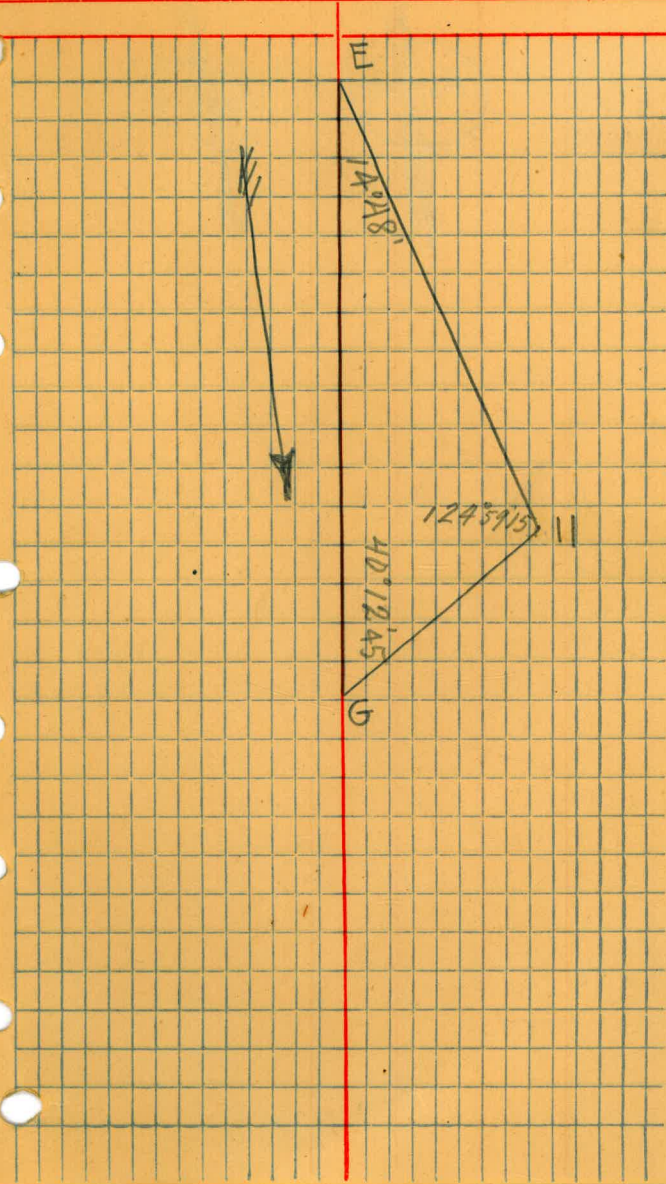


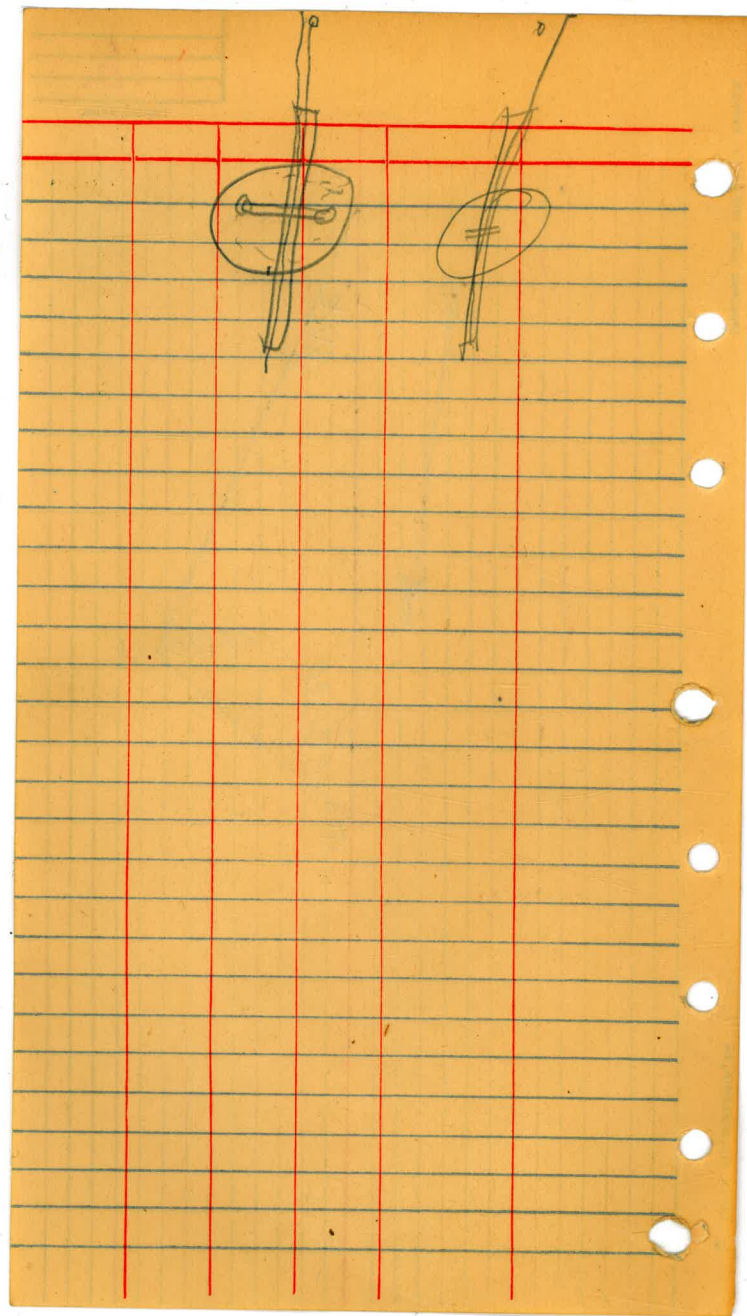
	Direct	Inverted
II	241°16'30"	241°16'30"
π G		⊕
E	40°13'	40°13'
G	124°59'40"	124°59'30"
π II		⊕
E	499°57	499°57
II	59°12	59°12
π E	59°12	⊕
G	14°48	14°48

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LEFAX, PHILADELPHIA, PA. 16

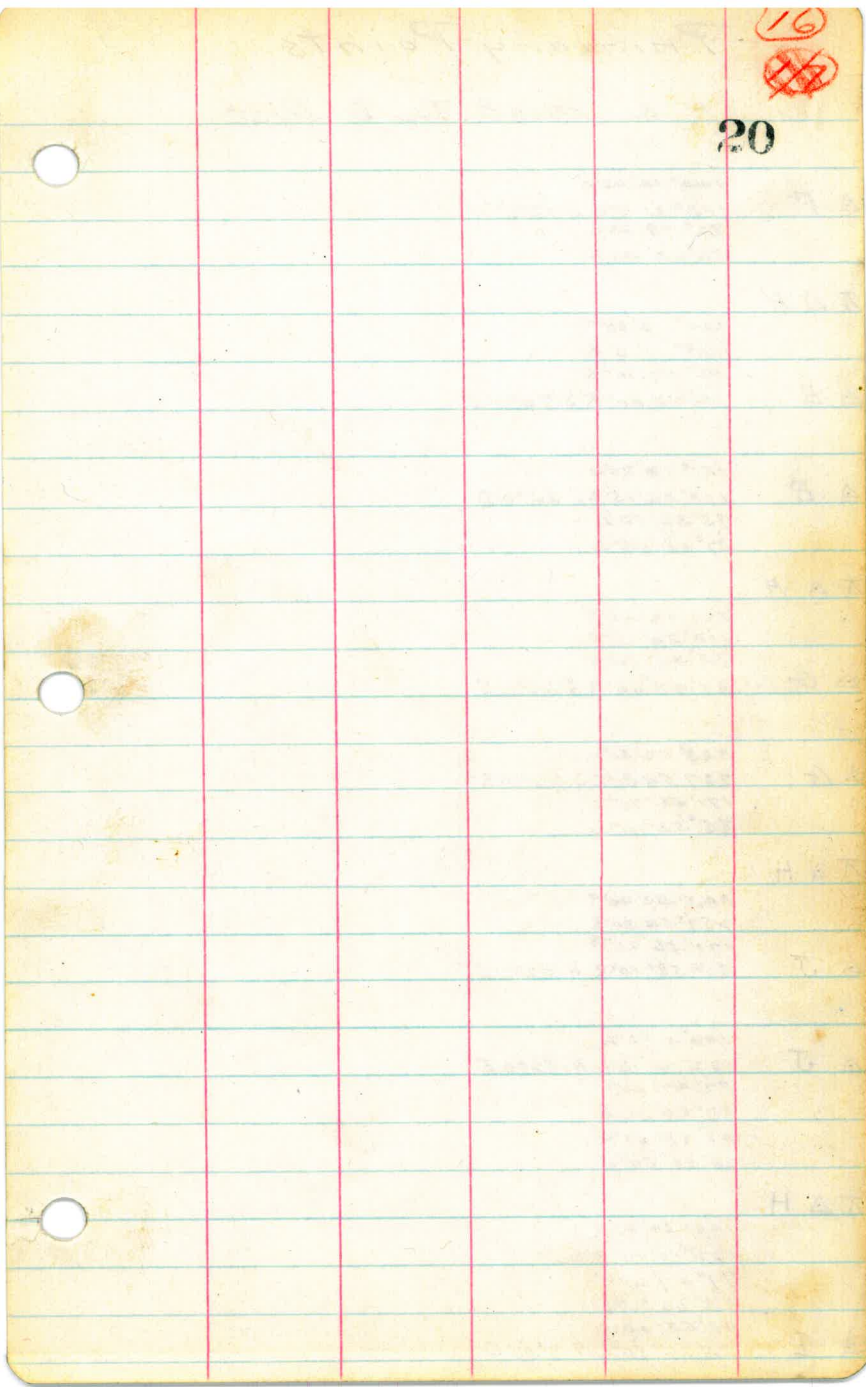
176
TRADE MARK





16
~~16~~

20



(17) Primary Points

H. L. Mag B. Tru. B. Dist

ΔF 144° 14' 40" L
108° 11' 0" S. 120° W
72° 07' 20" L
36° 03' 40" L

$\pi \Delta H$ 144° 14' 40" R
108° 11' 0" R
72° 07' 20" R

ΔE 36° 03' 40" R S. 240° E

ΔE 151° 12' 20" L
113° 22' 15" L S. 240° E
75° 36' 10" L
37° 48' 05" L

$\pi \Delta H$ 151° 12' 20" R
113° 22' 15" R
75° 36' 10" R

ΔG 37° 48' 05" R S. 62° 0' E

ΔG 343° 52' 40" L
257° 54' 30" L S. 62° 0' E
171° 56' 20" L
85° 58' 10" L

$\pi \Delta H$ 343° 52' 40" R
257° 54' 30" R
171° 56' 20" R

ΔJ 85° 58' 10" R N. 32° 0' E

ΔJ 146° 41' 0" L
122° 14' 10" L N. 32° 0' E
97° 47' 20" L
73° 20' 30" L
48° 53' 40" L
24° 26' 50" L

$\pi \Delta H$ 146° 41' 0" R
122° 14' 10" R
97° 47' 20" R
73° 20' 30" R

ΔI 48° 53' 40" R
24° 26' 50" R N. 70° 30' E

March - 18th - 27

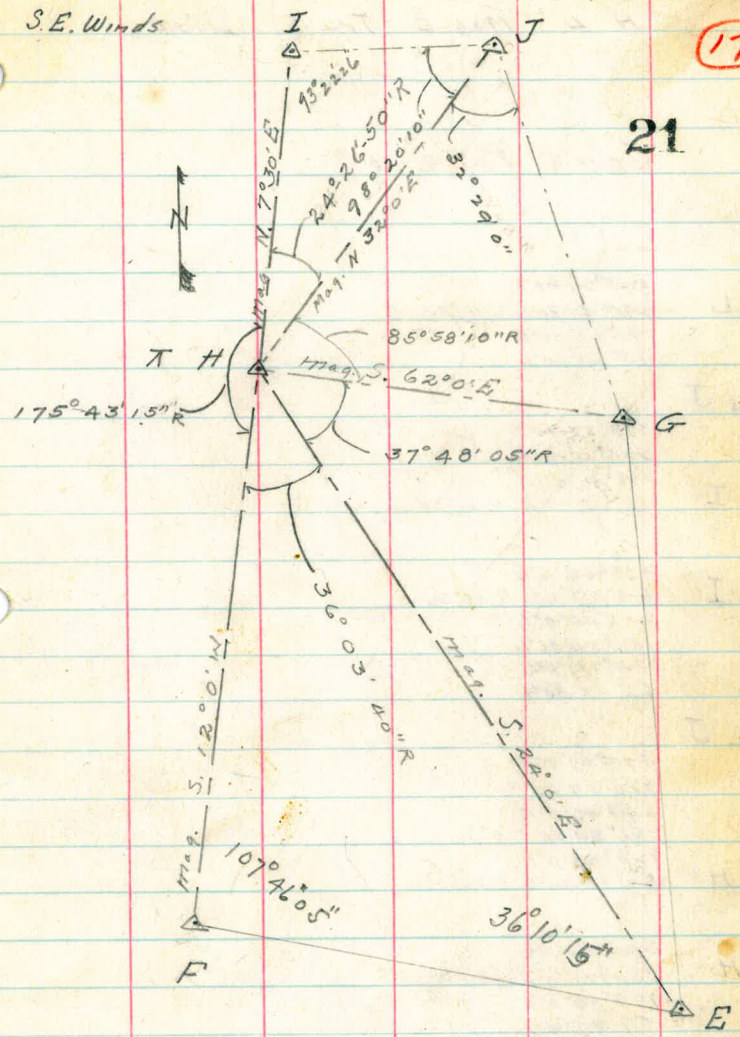
Cold-Cloudy

Ferguson - Chis
Andrews - T
Hefferman - Rec
Mattison - Chain

S.E. Winds

(17)

21



(18)

Primary Points

H. L. Mag B True Dist

Cont Page 19

Δ L 393°20'40"
295°0'30" N. 16°30'E
196°40'20"
98°20'10"

π Δ J

393°20'40"
295°0'30"

Δ I

196°40'20"
98°20'10" N. 81°30'W

Δ I

373°09'0"
310°57'30" N. 81°30'W
248°46'0"
186°34'30"
124°23'0"
62°11'30"

π Δ J

373°09'0"
310°57'30"
248°46'0"
186°34'30"

Δ H

124°23'0"
62°11'30" R. S. 36°0'W

Δ H

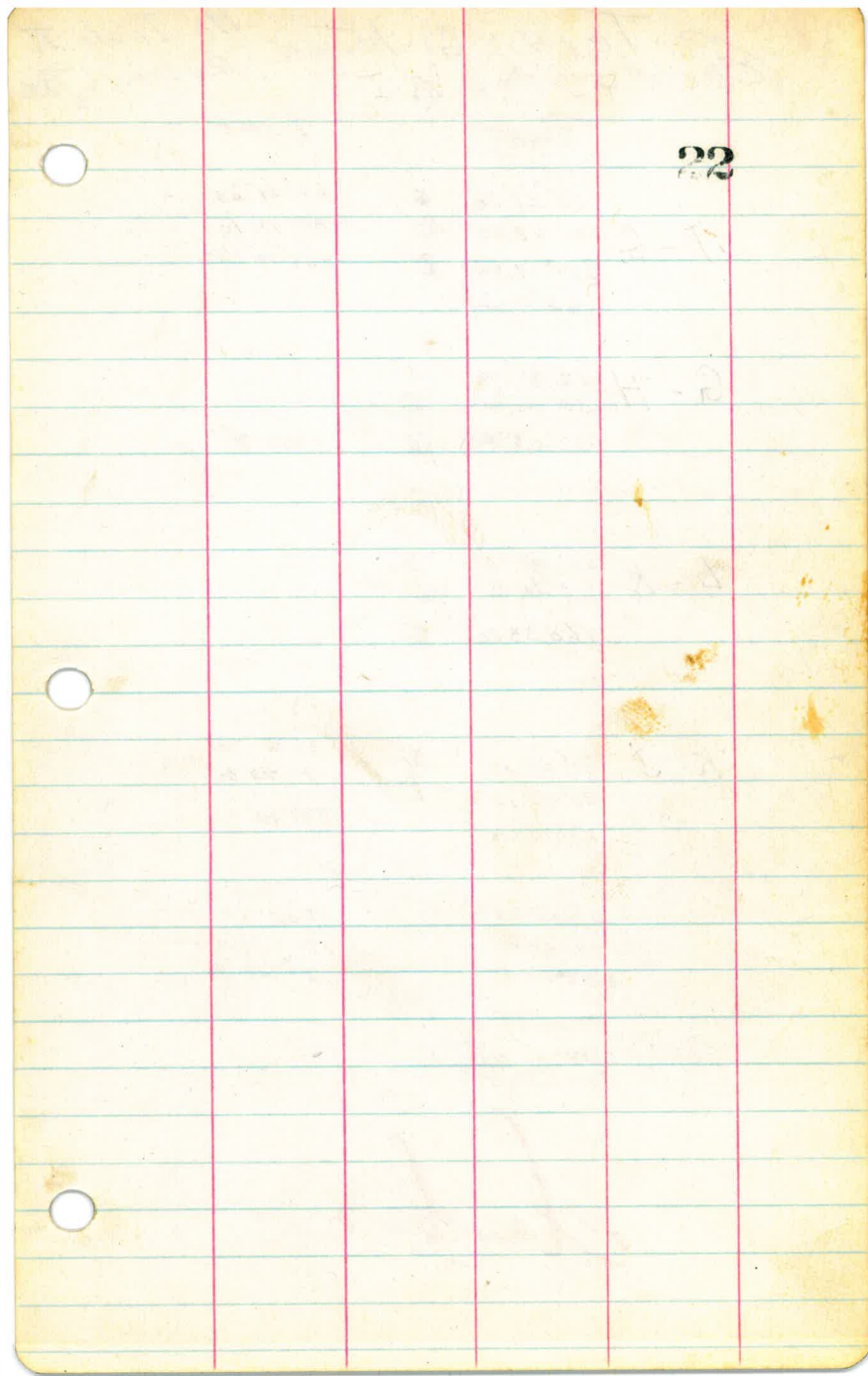
194°54'0"
162°25'0" S. 36°0'W
129°56'0"
97°27'0"
64°58'0"
32°29'0"

π Δ J

194°54'0"
162°25'0"
129°56'0"
97°27'0"
64°58'0"

Δ G

32°29'0" R. S. 3°30'W



180

TRIANGULATION
(check sights) ΔI

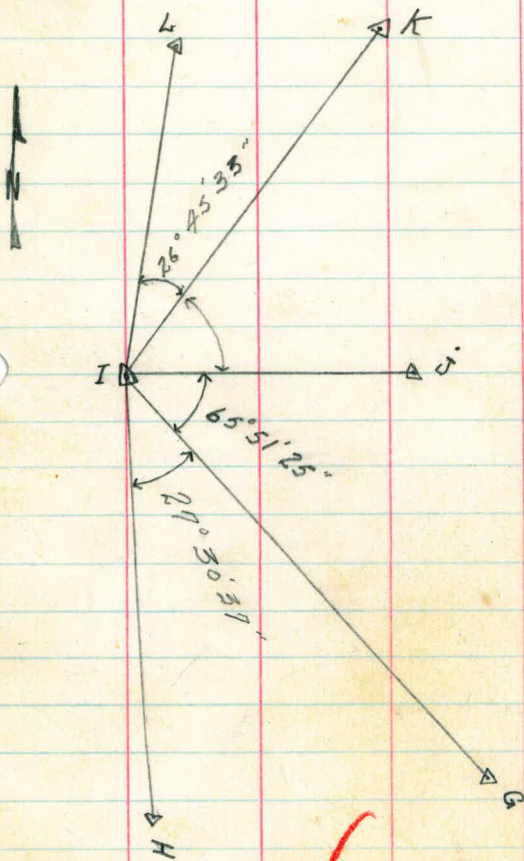
H.C. Ingle π
Andrews Rec.

	Right		Left
J-G	65° 51' 20" ①		65° 51' 20"
	131° 42' 50" ②		131° 43' 10"
	329° 17' 05" ③		329° 17' 05"
	65° 51' 25" ④		
G-H	27° 30' 30" ①		
	55° 01' 00" ②		
	165° 03' 40" ③		(27° 30' 37")
L-K	26° 45' 20" ①		
	53° 30' 40" ②		
	160° 33' 20" ③		
K-J	39° 51' 20" ①		39° 51' 30"
	79° 43' 10" ②		79° 43' 30"
	239° 10' 05" ③		239° 10' 40"
	39° 51' 20"		39° 51'
	79° 43' 10"		79°
	239° 08' 50"		239° 08' 50"
	Use this		
④	239° 10' 20"		

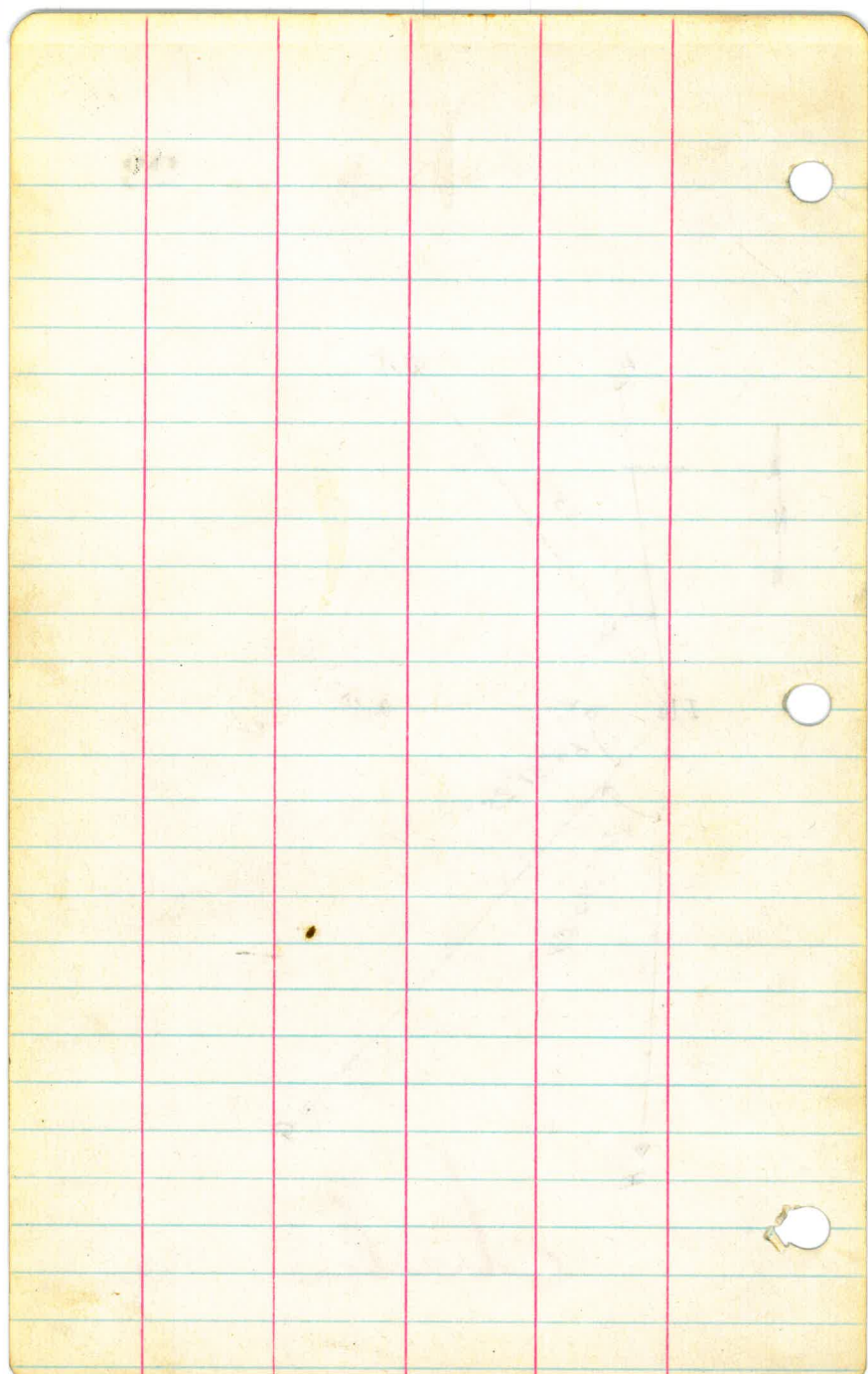
checks

180

23



checks



Triangulation

1

24

Triangulation

4/1/27
H.C. Ingle Inst.
Andrews Rec.

ΔJ

Direct

ΔJ

Right

Left

G-H

32° 28' 40"

①

32° 28' 40"

64° 57' 30"

②

64° 57' 30"

194° 52' 30"

③

194° 52' 30"

H-I

62° 11' 20"

①

62° 11' 20"

124° 22' 40"

②

248° 45' 0"

③

248° 44' 50"

I-L

98° 19' 55"

①

98° 19' 55"

196° 39' 50"

②

393° 19' 20"

③

393° 19' 40"

L-K

25° 13' 20"

①

25° 13' 20"

50° 26' 40"

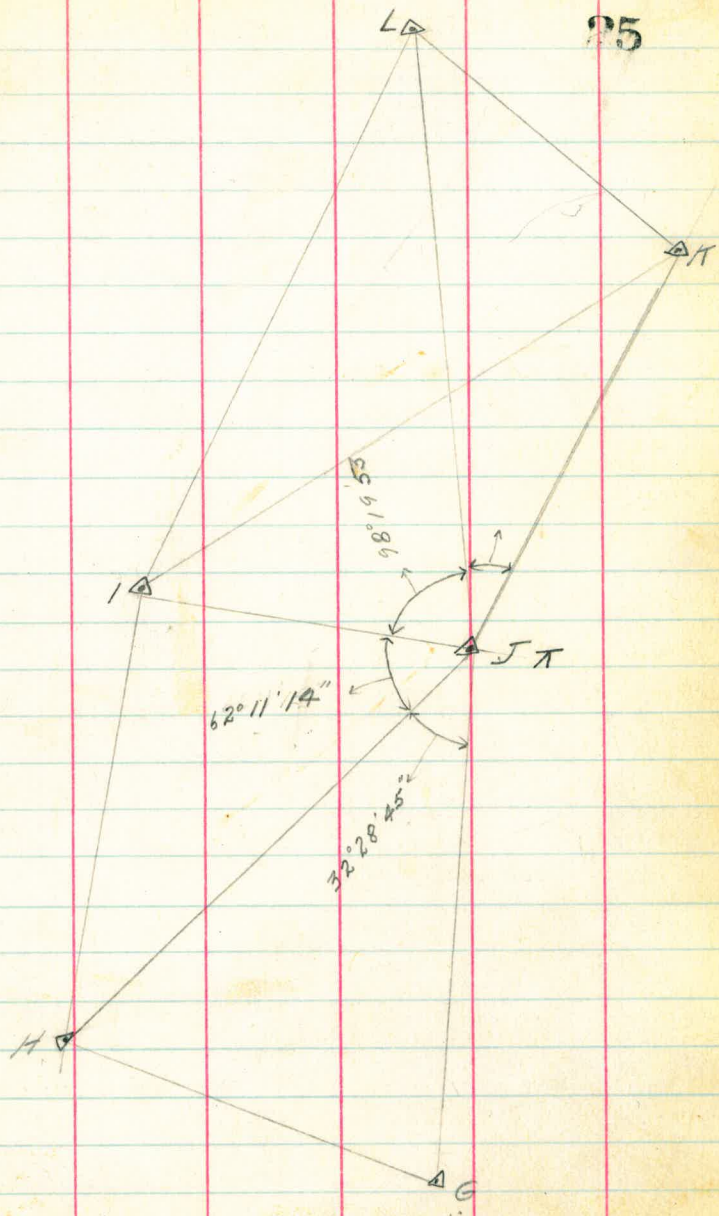
②

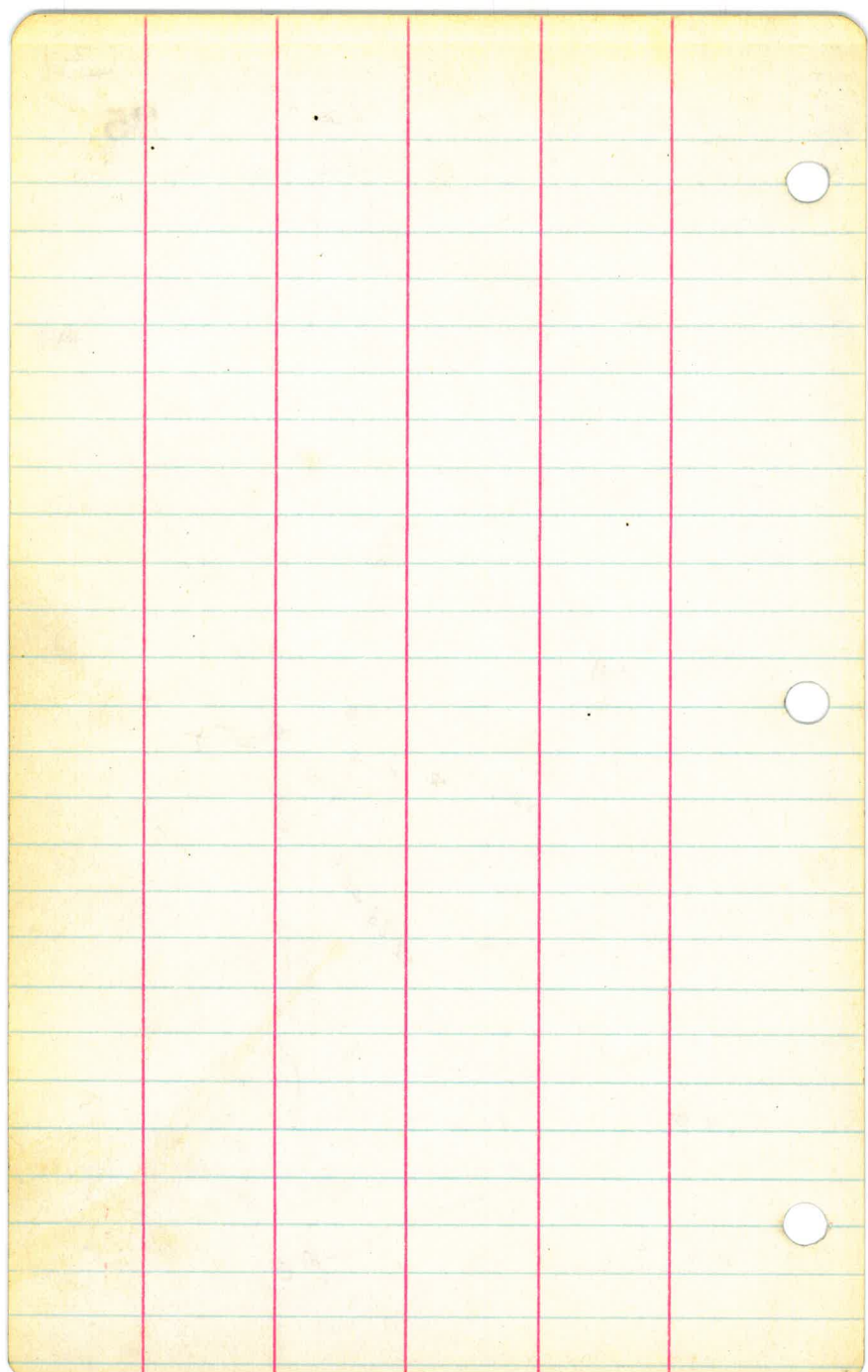
50° 26' 30"

151° 20' 0"

③

151° 20' 0"



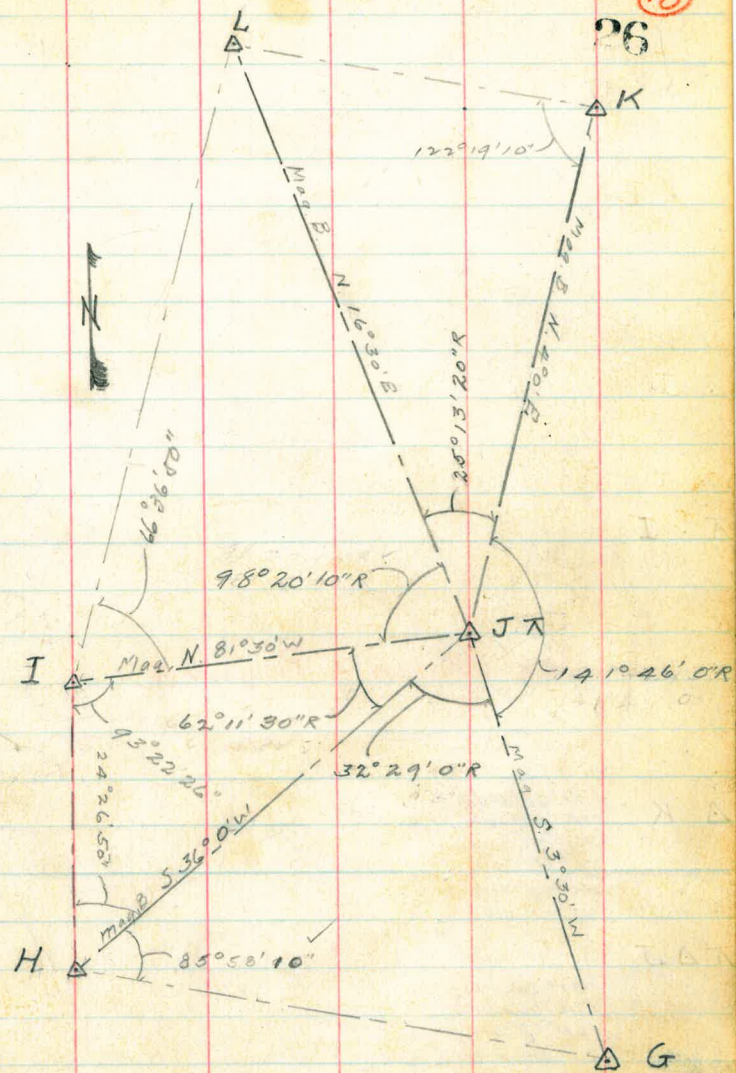


March - 18th - 27

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mott - 007 - Chain

Cold - Cloudy - Windy

(18)



(19)

Primary Points

See Sketch - Page 18

ΔK
151°20'0" L
126°06'40" N. A°0' E
100°53'20" L
75°40'0" L
50°26'40" L
25°13'20" L

ΔJ
151°20'0" R
126°06'40" R
100°53'20" R
75°40'0" R
50°26'40" R
 ΔL 25°13'20" R N. 16°30' E

March 18th - 27

Cool - Cloudy

Ferguson
Andrews
Heffernan
Mattoon

(19)

27

(20)

Primary Points

H. L. Mag B Tru B Dist

Cont Page 21

ΔG 329°18'50"L
263°27'0"L S. 15°30'E
197°35'20"L
131°43'30"L
65°51'50"L

$\pi \Delta I$

329°18'50"R
263°27'0"R
197°35'20"R
131°43'30"R

ΔJ 65°51'50"R S. 81°0'E

ΔJ 239°08'0"L
199°16'40"L S. 81°0'E
159°25'20"L
119°34'0"L
79°42'40"L
39°51'20"E

$\pi \Delta I$

239°08'0"R
199°16'40"R
159°25'20"R
119°34'0"R
79°42'40"R

ΔK 39°51'20"R N. 59°0'E

ΔK 160°33'0"L
133°47'30"L N. 59°0'E
107°02'0"L
80°16'30"L
53°31'0"L
26°45'30"L

$\pi \Delta I$

160°33'0"R
133°47'30"R
107°02'0"R
80°16'30"R
53°31'0"R

ΔL 26°45'30"R N. 32°0'E

March-18th-27

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Choir

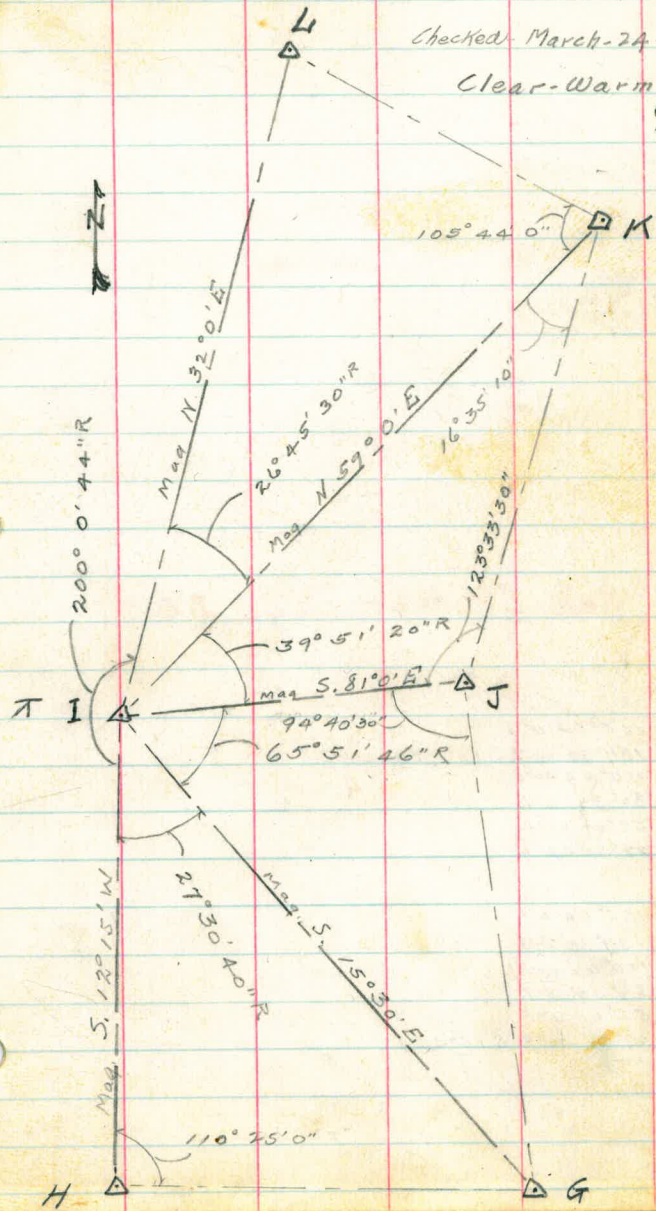
Cool-Cloudy-Windy

20

Checked March-24-27

Clear-Warm

28



(21)

Primary Points

H. L. Mag. B. Tru B. Dist

See Sketch - Page 20

△ H

165°04'0" L
137°33'20" L S 12°15' W
110°02'40" L
82°32'0" L
55°01'20" L
27°30'40" L

△ A I

165°04'0" R
137°33'20" R
110°02'40" R
82°32'0" R
55°01'20" R

△ C T

27°30'40" R S 15°30' E

(21)

29

(22)

Primary Points

H. L. Mag. B Tru B Dist

ΔM
298° 18' 0" L
248° 35' 0" L N. 36° 15' E
198° 52' 0" L
149° 09' 0" L
99° 26' 0" L
49° 43' 0" L

$\Delta \pi K$
298° 18' 0" R
248° 35' 0" R
198° 52' 0" R
149° 09' 0" R
99° 26' 0" R

ΔL
49° 43' 0" R N. 13° 30' W

ΔL
422° 56' 0" L
317° 12' 0" L N. 13° 30' W
211° 28' 0" L
105° 44' 0" L

$\pi \Delta K$
422° 56' 0" R
317° 12' 0" R

ΔI
211° 28' 0" R
105° 44' 0" R S. 61° 0' W

ΔI
99° 31' 0" L
87° 55' 56" L S. 61° 0' W
66° 20' 40" L
49° 45' 30" L
33° 10' 20" L
16° 35' 10" L

$\pi \Delta K$
99° 31' 0" R
87° 55' 56" R
66° 20' 40" R
49° 45' 30" R
33° 10' 20" R

ΔJ
16° 35' 10" R S. 44° 15' W

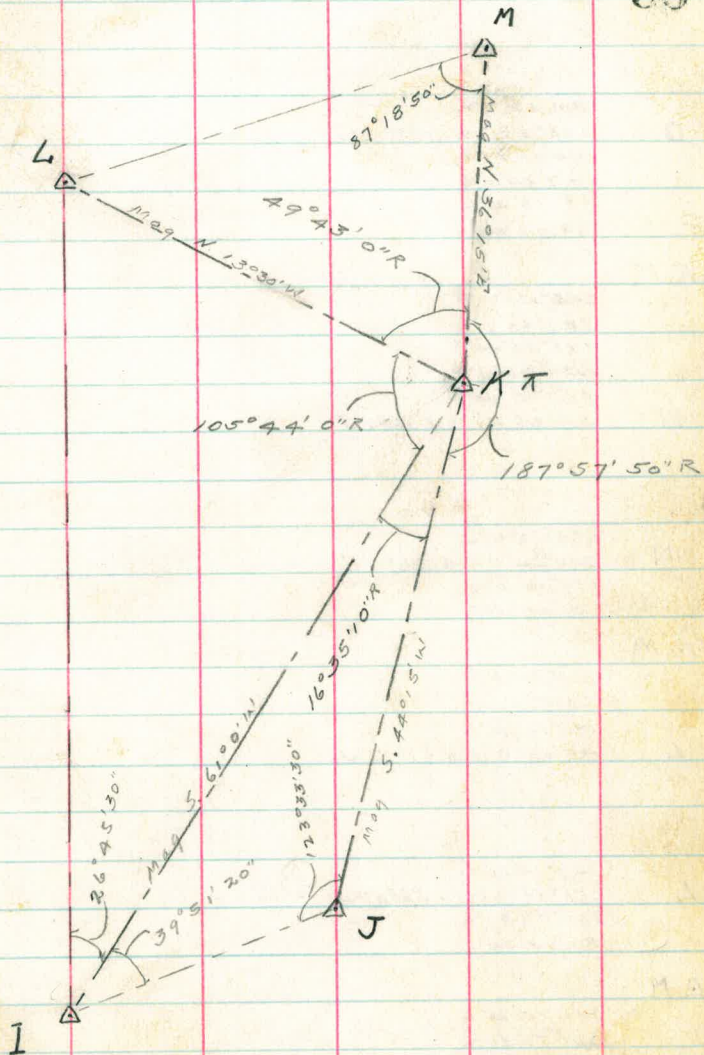
March-19th-27

Ferguson - Chief
Andrews - T
Hoffernan, Rec.

Clear-Warm-Windy

22

30



(23)

Primary Points

H. L. Mag B Tru B Dist

Δ O

294° 40' 0" L
245° 33' 20" L N. 85° 30' E
196° 26' 40" L
127° 20' 0" L
98° 13' 20" L
49° 06' 40" L

Δ T M

294° 40' 0" R
245° 33' 20" R
196° 26' 40" R
127° 20' 0" R
98° 13' 20" R

Δ N

49° 06' 40" R N. 36° 0' E

Δ N

380° 32' 0" L
285° 24' 0" L N. 36° 0' E
190° 16' 0" L
95° 08' 0" L

T Δ M

380° 32' 0" R
285° 24' 0" R
190° 16' 0" R

Δ L

95° 08' 0" R N. 58° 45' W

Δ L

349° 15' 20" L
261° 56' 30" L N. 58° 45' W
174° 37' 40" L
87° 18' 50" L

T Δ M

349° 15' 20" R
261° 56' 30" R
174° 37' 40" R

Δ K

87° 18' 50" R S. 33° 45' W

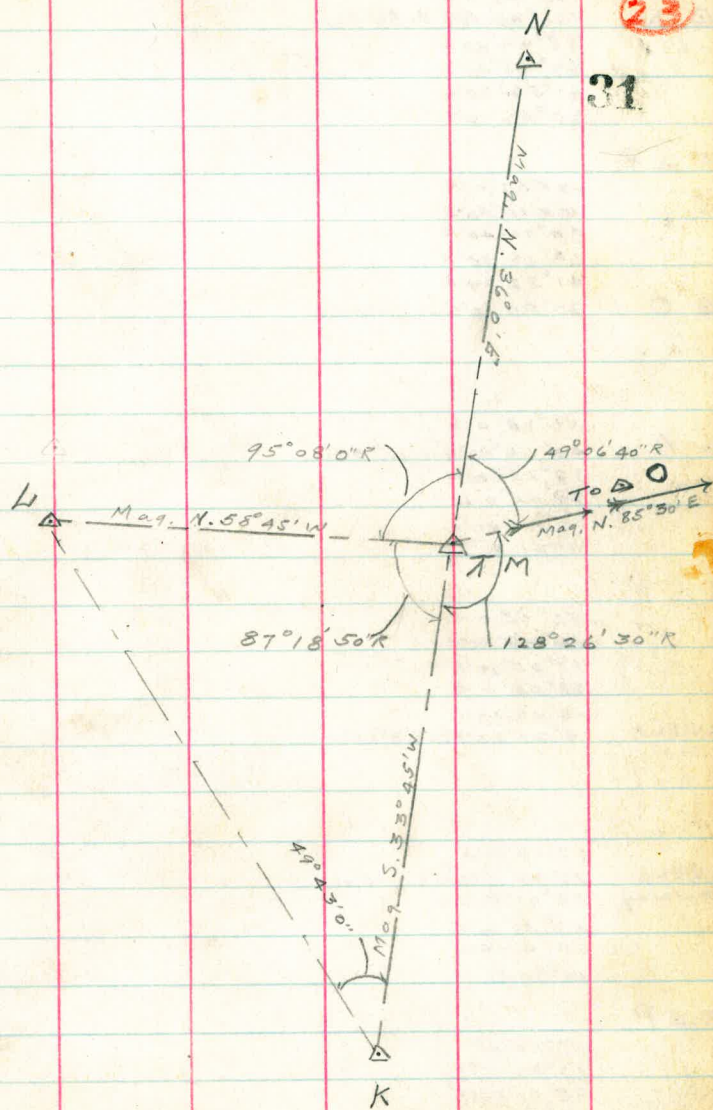
March 19th-27

Ferguson - Chief
Andrews - A
Heffernan - Rec

Clear-Warm

23

31



24

Primary Points

H L Mag B Tru B Dist

△ N

125°37'0" L
104°40'50" L No 86°0' W
83°44'40" L
67°48'30" L
41°52'20" L
20°56'10" L

π Δ P

125°37'0" R
104°40'50" R
83°44'40" R
67°48'30" R
41°52'20" R

△ O

20°56'10" R So 72°30' W

△ O

56°08'0" L
46°46'40" L So 72°30' W
37°25'20" L
28°04'0" L
18°42'40" L
9°21'30" L

π Δ P

56°08'0" R
46°46'40" R
37°25'20" R
28°04'0" R
18°42'40" R

⊙ N End

Spillway

9°21'20" R So 63°15' W

⊙ N End

Spillway

87°02'40" L
72°32'15" L So 63°15' W
58°01'50" L
43°31'20" L
29°0'50" L
14°30'30" L

π Δ P

87°02'40" R
72°32'15" R
58°01'50" R
43°31'20" R
29°0'50" R

⊙ S End

Spillway

14°30'30" R So 48°45' W

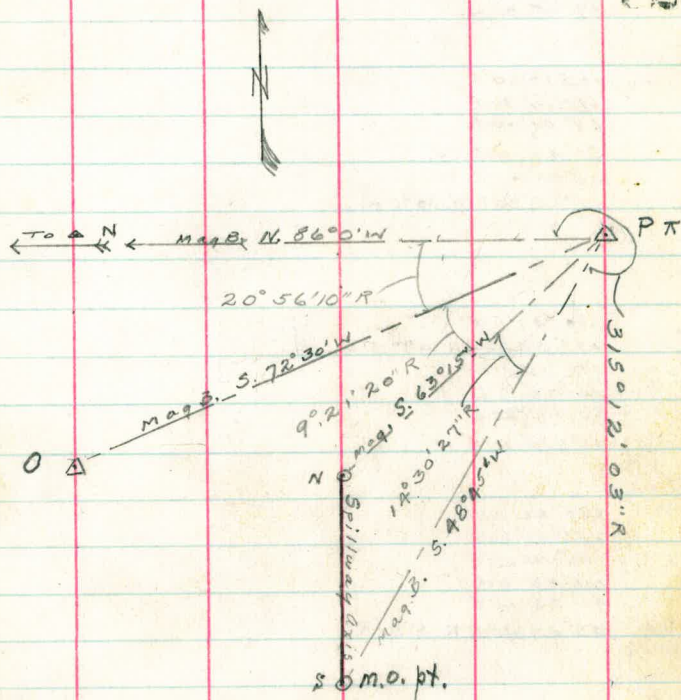
March-21-27

Ferguson - Chief
Andrews - T
Heffernan - Rec.

Clear-Warm

24

22



(25)

Primary Points
H.L. MagB TruB Dist

Δ N

103°33'20"
86°17'30"
69°01'50"
51°46'10"
34°30'30"
17°15'40"

△ S End

Spillway 103°33'20"
86°17'30"
69°01'50"
51°46'10"
34°30'30"

Δ O

17°15'40" R. N. 85°0' W

Δ P

280°46'0"
233°58'20" N. 49°15' E
187°10'40"
140°23'0"
93°35'20"
46°47'40"

△ O S End

Spillway 280°46'0"
233°58'20"
187°10'40"
140°23'0"
93°35'20"

○ N End

Spillway 46°47'40" R. N. 3°30' E

○ N End

Spillway 349°24'40"
262°03'30" N. 3°30' E
174°42'20"
87°21'10"

△ S End

Spillway 349°24'40"
262°03'30"
174°42'20"

Δ O

87°21'10" R. N. 85°0' W

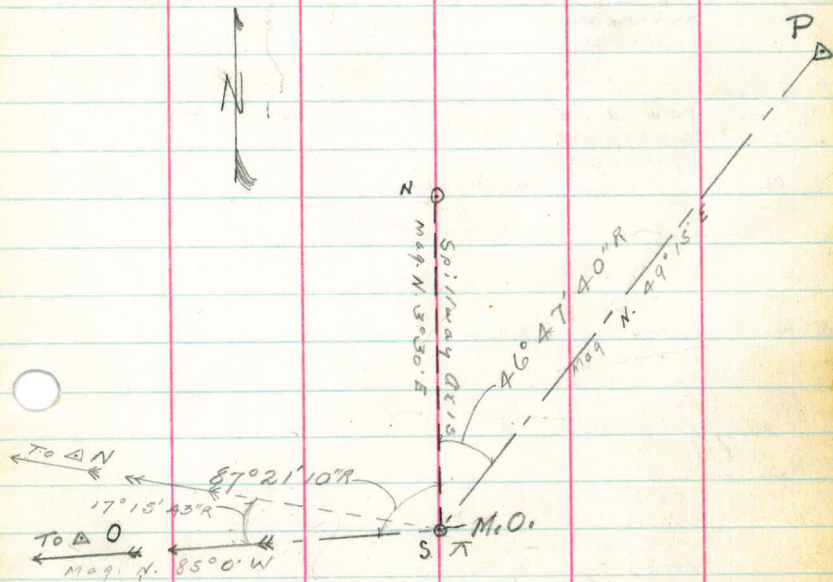
March 21-27

Clear-Warm

Ferguson - Land
Andrews - T
Hejferman - Rec

25

33



(26)

Primary Points

H. L. Mag. B. Tru. B. Dist.

ΔP
554°08'0"L
415°36'0"L N. 63°30'E
277°04'0"L
138°32'0"L

π N. End
Spillway
554°08'0"R
415°36'0"R
277°04'0"R
 $\Delta N.$ 138°32'0"R N. 75°0'W

ΔN
150°33'40"L
125°28'05"L N. 75°0'W
100°22'30"L
75°16'50"L
50°11'10"L
25°05'40"L

π N. End
Spillway
150°33'40"R
125°28'05"R
100°22'30"R
75°16'50"R
50°11'10"R
 ΔO 25°05'40"R S. 80°0'W

ΔO
310°45'20"W
233°04'0"L S. 80°0'W
155°22'40"L
77°41'20"L

π N. End
Spillway
310°45'20"R
233°04'0"R
155°22'40"R
 \circ S. End
Spillway 77°41'20"R S. 2°15'W

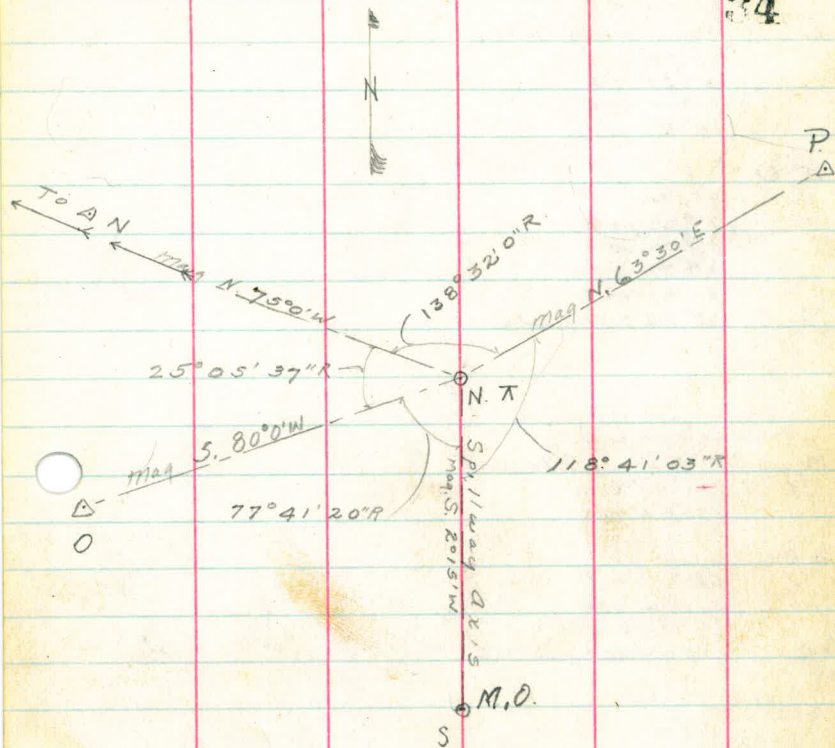
March 21-27

Ferguson - Chief
Andrews - π
Heffernan - Rec

Clear Warm

26

34



(27)

Primary Points
H L MagB TruB Dist

Cont Page 28

ΔL 95° 14' 0" L
79° 21' 40" L N. 80° 30' W
63° 29' 20" L
47° 37' 0" L
31° 44' 40" L
15° 52' 20" L

$\pi \Delta O$

95° 14' 0" R
79° 21' 40" R
63° 29' 20" R
47° 37' 0" R
31° 44' 40" R

ΔM 15° 52' 20" R S. 84° 0' W

ΔM 68° 19' 0" L
51° 14' 20" L S. 84° 0' W
340° 09' 30" L
170° 04' 40" L

$\pi \Delta O$

68° 19' 0" R
51° 14' 20" R
340° 09' 30" R

\odot S End
Spillway 170° 04' 40" R S. 86° 30' E

\odot S End
Spillway 89° 49' 0" L
74° 50' 50" L S. 86° 30' E
59° 52' 40" L
44° 54' 30" L
29° 56' 20" L
14° 58' 10" L

$\pi \Delta O$

89° 49' 0" R
74° 50' 50" R
59° 52' 40" R
44° 54' 30" R
29° 56' 20" R

\odot N End
Spillway 14° 58' 10" R N. 78° 30' E

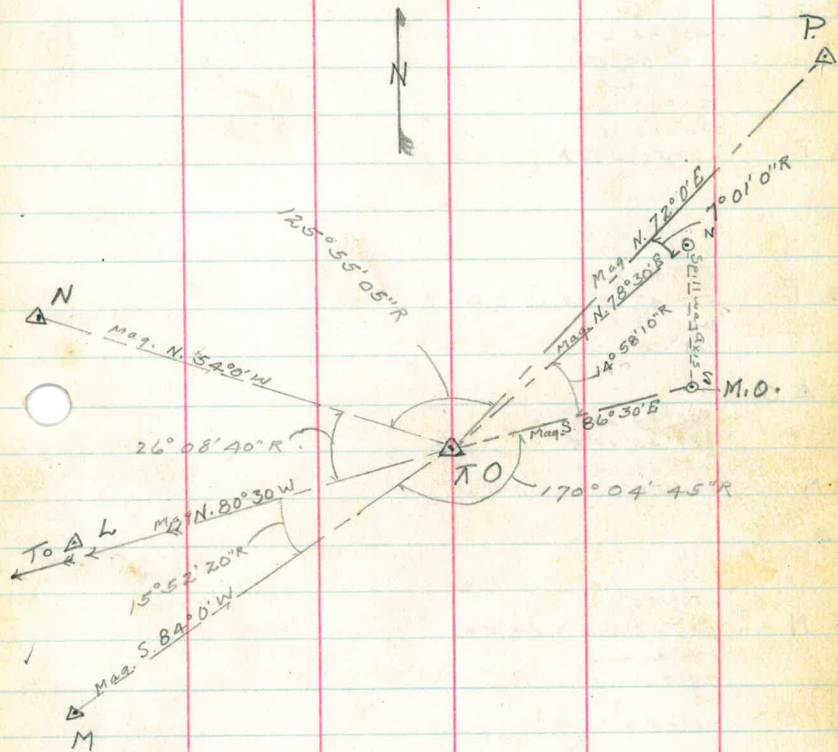
March-22-27

Clear-Warm

Ferguson-Chief
Andrews-†
Hefferman-Rec

(27)

25



(28)

Primary Points

See Sketch - Page 27

H.L. Mag B Tru B Dist

ON End. 42° 06' 0" L
Spillway 35° 05' 0" L N. 78° 30' E
28° 04' 0" L
21° 03' 0" L
14° 02' 0" L
7° 01' 0" L

TAO

42° 06' 0" R
35° 05' 0" R
28° 04' 0" R
21° 03' 0" R
14° 02' 0" R

Δ P

7° 01' 0" R N. 72° 0' E

Δ P

503° 40' 20" L
377° 45' 10" L N. 72° 0' E
251° 50' 10" L
125° 55' 0" L

TAO

503° 40' 20" R
377° 45' 10" R
251° 50' 10" R

Δ N

125° 55' 0" R N. 54° 0' W

Δ N

156° 52' 0" L
130° 43' 20" L N. 54° 0' W
104° 34' 40" L
78° 26' 0" L
52° 17' 20" L
26° 08' 40" L

TAO

156° 52' 0" R
130° 43' 20" R
104° 34' 40" R
78° 26' 0" R

Δ L

52° 17' 20" R
26° 08' 40" R N. 80° 30' W

28

36

(29)

Primary Points
H.L. Mag B Tru B Dist
Cont Page 30

Δ O
89° 0' 0" L
74° 10' 0" L
59° 20' 0" L
44° 30' 0" L
29° 40' 0" L
14° 50' 0" L

∩ Δ N
89° 0' 0" R
74° 10' 0" R
59° 20' 0" R
44° 30' 0" R
29° 40' 0" R
14° 50' 0" R

⊙ S. End
Spillway
14° 50' 0" R

⊙ S. End
Spillway
42° 49' 30" L
35° 41' 20" L
28° 33' 0" L
21° 24' 40" L
14° 16' 30" L
7° 08' 20" L

∩ Δ N
42° 49' 40" R
35° 41' 20" R
28° 33' 0" R
21° 24' 40" R
14° 16' 30" R

⊙ N. End
Spillway
7° 08' 20" R

⊙ N. End
Spillway
67° 03' 0" L
55° 52' 30" L
44° 42' 0" L
33° 31' 30" L
22° 21' 0" L
11° 10' 30" L

∩ Δ N
67° 03' 0" R
55° 52' 30" R
44° 42' 0" R
33° 31' 30" R

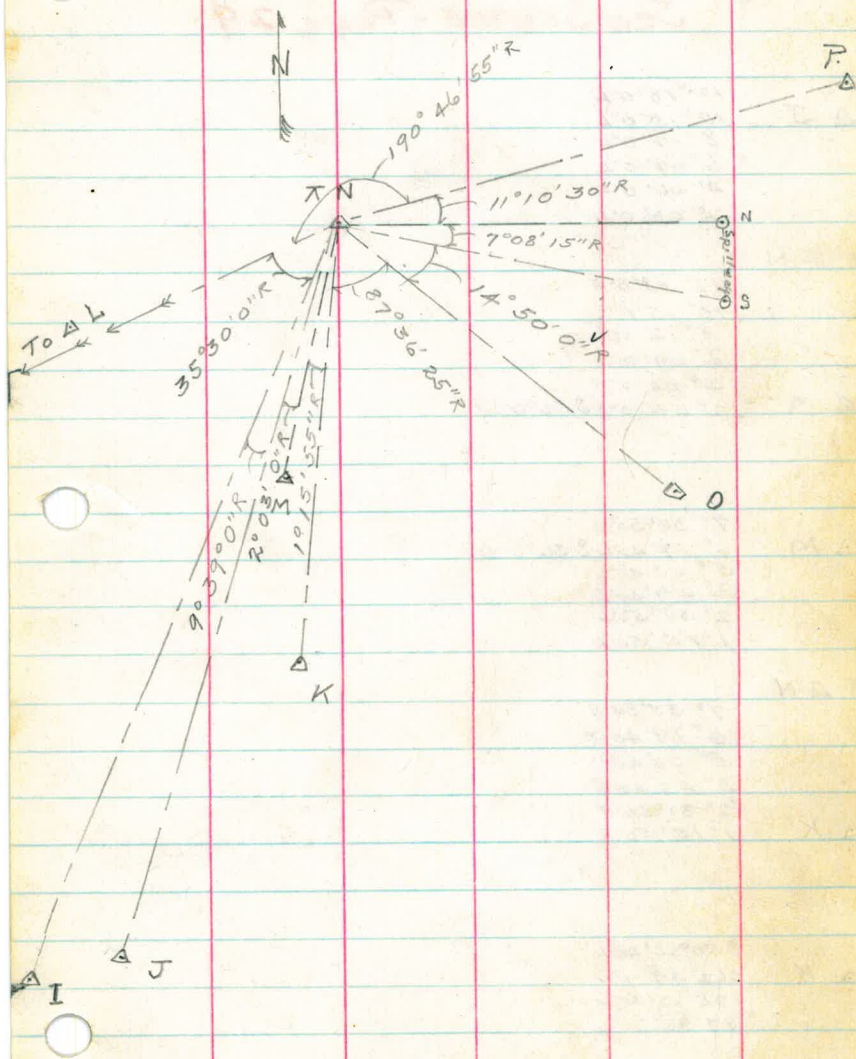
Δ P
22° 21' 0" R
11° 10' 30" R

March-23-27

Ferguson - Chief
Andrews - T
Heffernan - Rec.

Clear - Warm

29



(30)

Primary Points

H. L. MagB Tru B Dist

See Sketch - Page 29

Δ J
12° 18' 0" A
10° 15' 0" A
8° 12' 0" A
6° 09' 0" A
4° 06' 0" A
2° 03' 0" A

∠ Δ N
12° 18' 0" R
10° 15' 0" R
8° 12' 0" R
6° 09' 0" R
4° 06' 0" R

Δ M
2° 03' 0" R S 36° 0' W

Δ M
7° 35' 30" A
6° 19' 40" S 36° 0' W
5° 03' 40" A
3° 47' 40" A
2° 31' 50" A
1° 15' 50" A

∠ Δ N
7° 35' 30" R
6° 19' 40" R
5° 03' 40" R
3° 47' 40" R

Δ X
2° 31' 50" R
1° 15' 50" R

Δ K
350° 25' 40" A
262° 49' 10" A
175° 12' 50" A
87° 36' 30" A

∠ Δ N
350° 25' 40" R
262° 49' 10" R
175° 12' 50" R
87° 36' 30" R

Δ O

Primary Points

30

H.L. Mag B Tro B Dist

28

See Sketch - Page 29

AL

213° 0' 0" L
177° 30' 0" L
142° 0' 0" L
106° 30' 0" L
71° 0' 0" L
35° 30' 0" L

TAN

213° 0' 0" R
177° 30' 0" R
142° 0' 0" R
106° 30' 0" R
71° 0' 0" R

AI

35° 30' 0" R

AI

57° 54' 0" L
48° 15' 0" L
38° 36' 0" L
28° 57' 0" L
19° 18' 0" L
9° 39' 0" L

TAN

57° 54' 0" R
48° 15' 0" R
38° 36' 0" R
28° 57' 0" R
19° 18' 0" R

AJ

9° 39' 0" R

(3)

Primary Points

H L Mag B. Tru B Dist

Cont Page 32

ΔM 119° 20' 30" L
99° 27' 0" S 60° 5' E
79° 33' 40" L
59° 40' 20" L
39° 46' 50" L
19° 53' 30" L

$\pi \Delta L$ 119° 20' 30" R
99° 27' 0" R
79° 33' 40" R
59° 40' 20" R
39° 46' 50" R

ΔO 19° 53' 30" R S 80° 0' E

ΔO 67° 08' 0" L
55° 56' 40" L S 80° 0' E
44° 45' 20" L
33° 34' 0" L
22° 22' 40" L
11° 11' 20" L

$\pi \Delta L$ 67° 08' 0" R
55° 56' 40" R
44° 45' 20" R
33° 34' 0" R
22° 22' 40" R

ΔP 11° 11' 20" R N 88° 45' E

ΔP 39° 31' 30" L
32° 56' 20" L N 88° 45' E
26° 21' 0" L
19° 45' 40" L
13° 10' 30" L
6° 35' 20" L

$\pi \Delta H$ 39° 31' 30" R
32° 56' 20" R
26° 21' 0" R
19° 45' 40" R
13° 10' 30" R

ΔN 6° 35' 20" R N 82° 0' E

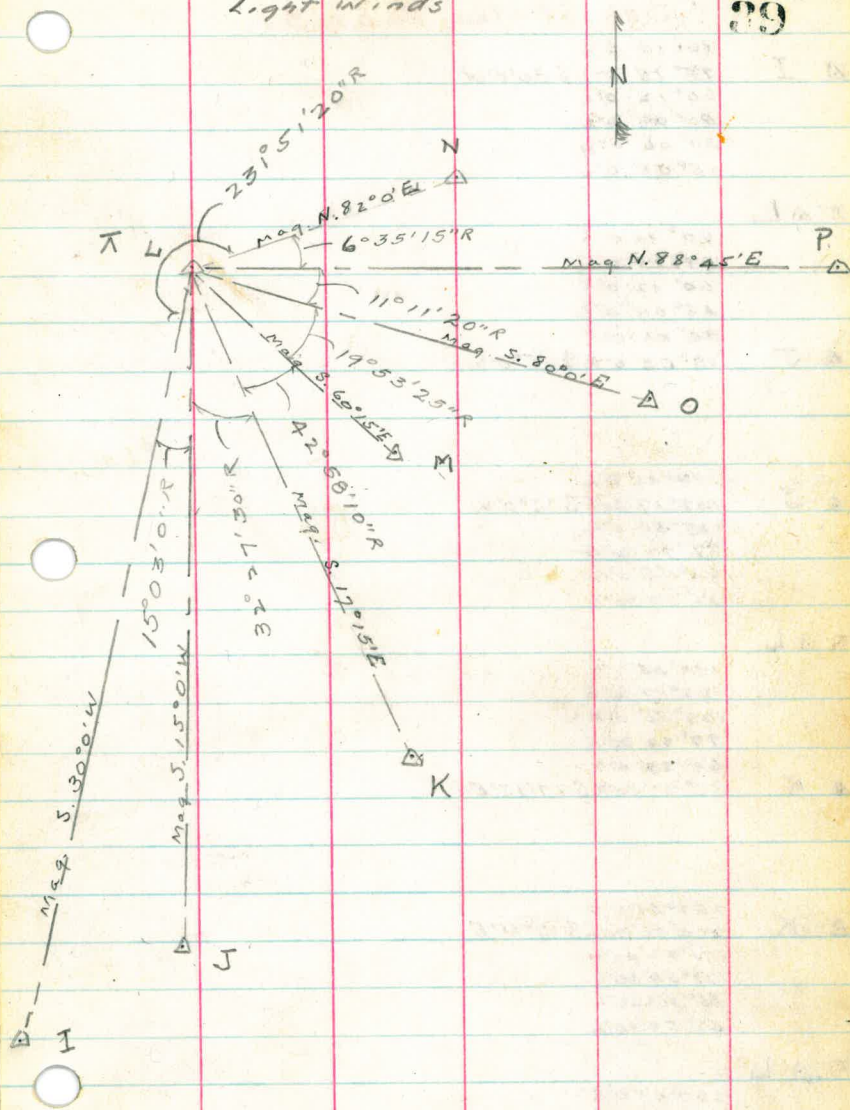
March-23-27

Ferguson-Chief
Andrews-T
Heffernan-Rec.

31

Clear Warm-
Light Winds

39



32

Primary Points

H. L. Mag B. Tru B. Dist

See Sketch Page 31

ΔI
90° 18' 0" L
75° 15' 0" L S 30° 0' W
60° 12' 0" L
45° 09' 0" L
30° 06' 0" L
15° 03' 0" L

$\pi \Delta L$
90° 18' 0" R
75° 15' 0" R
60° 12' 0" R
45° 09' 0" R
30° 06' 0" R
 ΔJ 15° 03' 0" R S 15° 0' W

ΔJ
194° 45' 0" L
162° 17' 30" L S 15° 0' W
129° 50' 0" L
97° 22' 30" L
64° 55' 0" L
32° 27' 30" L

$\pi \Delta L$
194° 45' 0" R
162° 17' 30" R
129° 50' 0" R
97° 22' 30" R
64° 55' 0" R
 ΔK 32° 27' 30" R S 17° 15' E

ΔK
257° 49' 0" L
214° 50' 50" L S 17° 15' E
171° 52' 40" L
128° 54' 30" L
85° 56' 20" L
42° 58' 10" L

$\pi \Delta L$
257° 49' 0" R
214° 50' 50" R
171° 52' 40" R
128° 54' 30" R
85° 56' 20" R
 ΔM 42° 58' 10" R S 60° 15' E

32

40

33

Primary Points

H.L. Mag B Tru B Dist

△ P

148° 52' 0" L
124° 05' 0" L N. 35° 0' W
99° 16' 0" L
74° 27' 0" L
49° 38' 0" L
24° 29' 0" L

π Δ Q

148° 52' 0" R
124° 05' 0" R
99° 16' 0" R
74° 27' 0" R
49° 38' 0" R
24° 29' 0" R N. 59° 30' W

△ O

421° 24' 0" L
351° 10' 0" L N. 59° 30' W
280° 56' 0" L
210° 42' 0" L
140° 28' 0" L
70° 14' 0" L

π Δ Q

421° 24' 0" R
351° 10' 0" R
280° 56' 0" R
210° 42' 0" R

△ R

140° 28' 0" R
70° 14' 0" R S. 50° 0' W

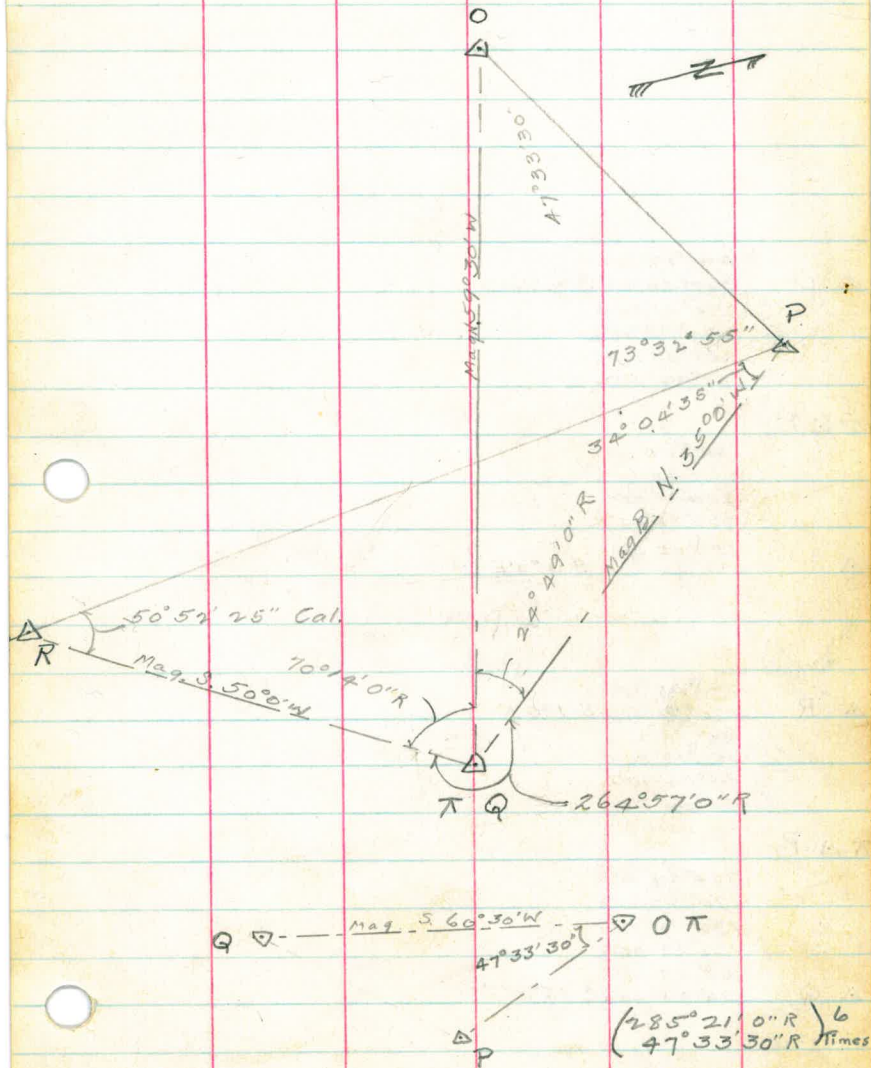
March-23-27

Ferguson
Andrews
Hoffmann
Mattoon

33

Clear-Warm

41



(34)

Primary Points

H. L. Mag B. Tru. B. Dist

ΔO 44°17'30" W
367°44'30" S. 72°30' W
292°11'20" W
220°38'45" W
147°05'50" W
73°32'50" W

$\pi \Delta P$

44°17'30" R
367°44'30" R
292°11'20" R
220°38'45" R

ΔR

147°05'50" R
73°32'50" R S. 1°0' E

ΔR

204°27'30" W
170°27'50" S. 1°0' E
136°18'20" W
102°13'40" W
68°09'10" W
34°04'40" W

$\pi \Delta P$

204°27'30" R
170°27'50" R
136°18'20" R
102°13'40" R
68°09'10" R

ΔQ

34°04'40" R S. 35°0' E

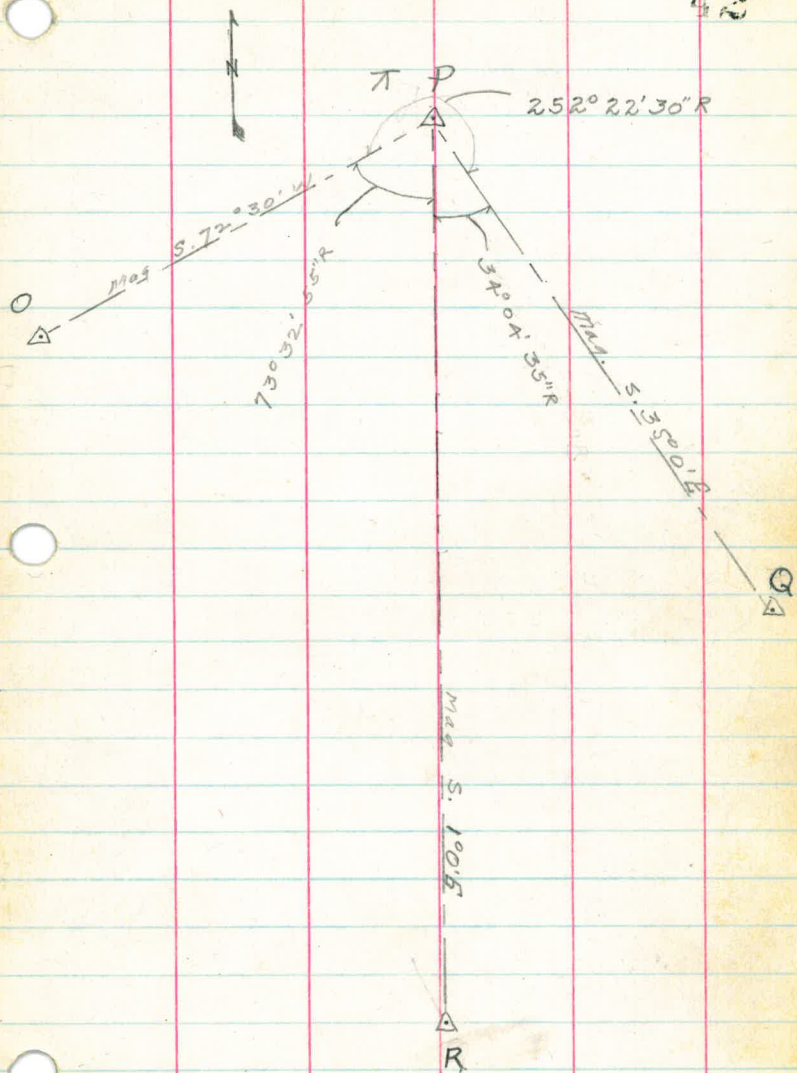
March-24-27

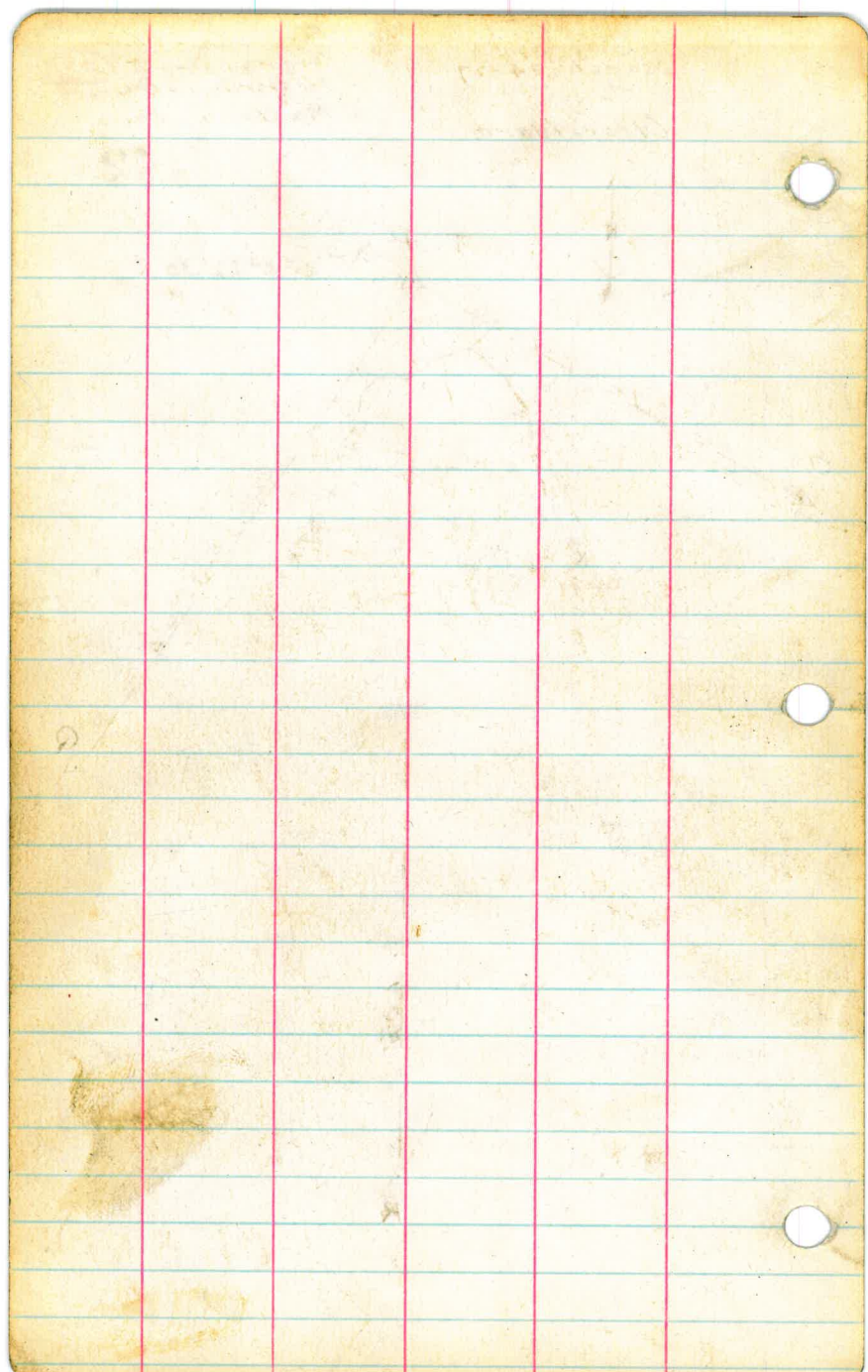
Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Chain

34

Clear-Warm

42





March 4th - 27

Ferguson Chief
Andrews - ~~X~~
Hofferman - Rec.
Mattoon - Chain

Cold - Cloudy - Light Rains

43

Mon
BL # 3

ΔE # 1

Void

Mon
BL # 2

ΔE # 2

TRIANGULATION
Secondary Points

Mon
BL # 1

ΔE # 1

①

Secondary Points

H. L. Mag. B Tro. B Dist

Δ Sec. E*1

π B.L. #2 172°40'40"R
86°20'20"R

2986.38

Δ B.L. #1

Δ Sec. E*1

B.L.
π Po.T 153°02'40"R
12+54⁵⁰ 76°31'20"R
(as stationed)

3064.68

Δ B.L. #2

March - 3rd - 27

Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chain

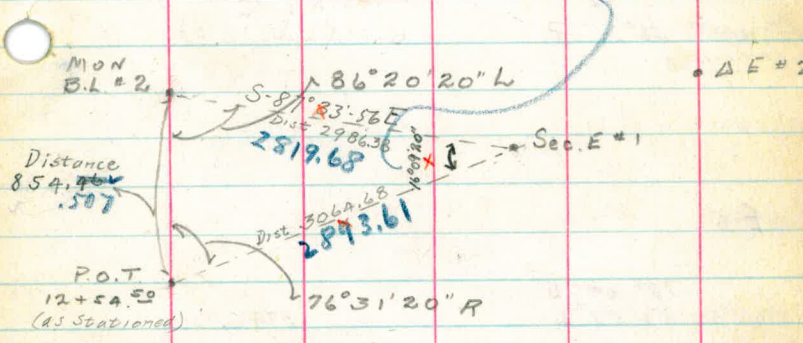
Cold-Cloudy-Rain

Mon.
BL # 3

• Δ E # 3

14

Y 1 1.0



17° 08' - 20"

MON
B.L. # 2

Distance
854.507

P.O.T.
12+54.50
(As Stationed)

Base

Mon.
B.L. # 1

plotted
H.

• Δ E # 2

• Δ E # 1

②

Secondary Points

H L Mag. B. True B. Dist

A Sec E # 3

^{BL}
T P.O. T. 1254³⁰ 83° 00'
(as Stationed) 41° 30' R

5653.72

ABL # 2

A Sec E # 2

^{BL}
A P.O. T. 1254³⁰ 112° 52'
(as Stationed) 56° 26' R

4100.83

ABL # 2

A Sec E # 3

T BL # 3 178° 04' L
89° 02' L

3746.79

ABL # 2

A Sec E # 2

T BL # 3 118° 34' L
59° 17' L

3974.61

ABL # 2

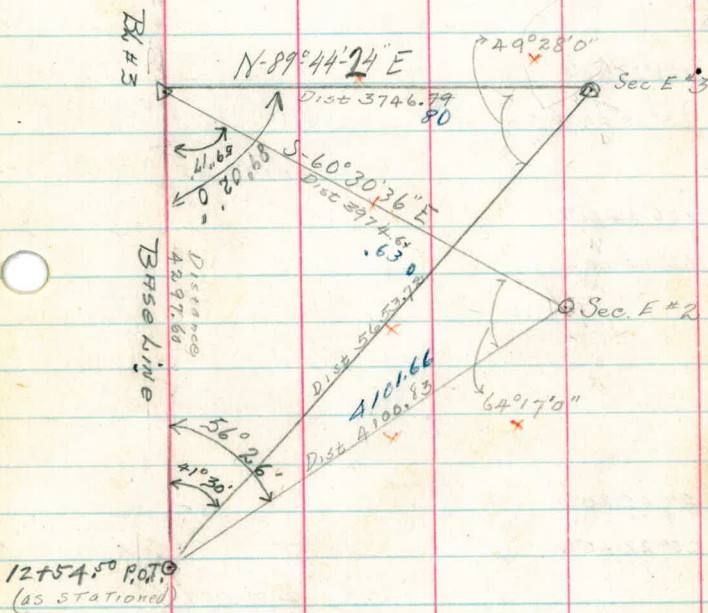
March 5th - 27

Ferguson
Andrews
Mattoon

2

Cool - Cloudy

45



Plotted F.C.

③

Secondary Points

H. L	Mag B	Tru B	Dist
------	-------	-------	------

Δ Sec #3

• 126° 24' 20" R

63° 12' 20" R

∩ Sec #4

126° 24' 20" L

63° 12' 20" L

S. 12° 50' E

1798.95

Δ B, L #3

Δ Sec #4

50° 45' 20" L

25° 22' 40" L

∩ B, L #3

50° 45' 20" R

25° 22' 40" R

N. 76° 0' E

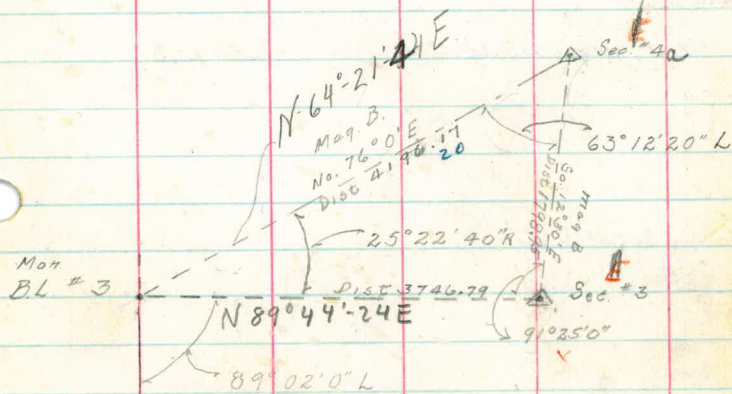
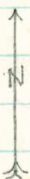
4196.17

Δ Sec #3

March 8th - 27

Cool - Cloudy

Ferguson - Chief
Andrews - T (3)
Heffernan - Rec
Mattoon - Chain



Mon
BL # 3

Base Line

Mon
BL # 2

Plotted Pl.
3-29-27

④

Secondary Points

	H. L	Mag B	Tru B	Dist
Δ E #4				
Δ Sec #4				
Δ Sec #4				
Δ Sec #3				
Δ Sec #4				
Δ Sec #3				
Δ Sec #4				
Δ Sec #3				
Δ Sec #4a				
Δ Sec #4				
Δ Sec #5				
Δ Sec #4				
Δ Sec #4a				
Δ Sec #4				
Δ E #3				
Δ E #3				
Δ Sec #4				
Δ B.L #3				
Δ Sec #5				
Δ Sec #4				
Δ B.L #3				

~~Δ E #4~~

Δ Sec #4

Δ Sec #4

Δ Sec #3

Δ Sec #4 39°02'40" S 34°36' W

2849.70

Δ Sec #4

Δ Sec #3

Δ Sec #4a 93°48'30" R

Δ Sec #4

Δ Sec #5

Δ Sec #4a 50°31'30" R N 73°30' E

2093.68

Δ E #3

Δ E #3

Δ Sec #4 152°27'0" R

1798.95

Δ B.L #3

Δ Sec #5

Δ Sec #4 157°0'50" W

Δ B.L #3

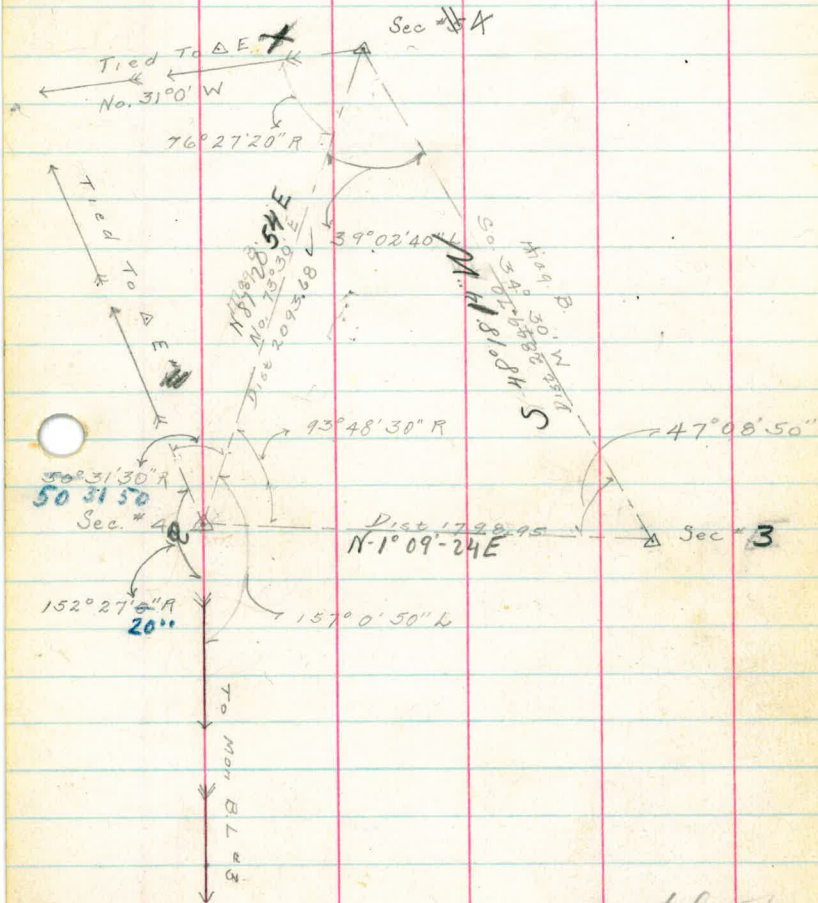
March 8th 27

Ferguson - Chy
Andrews - T
Heffernan - Rec
Mattoon - Chain

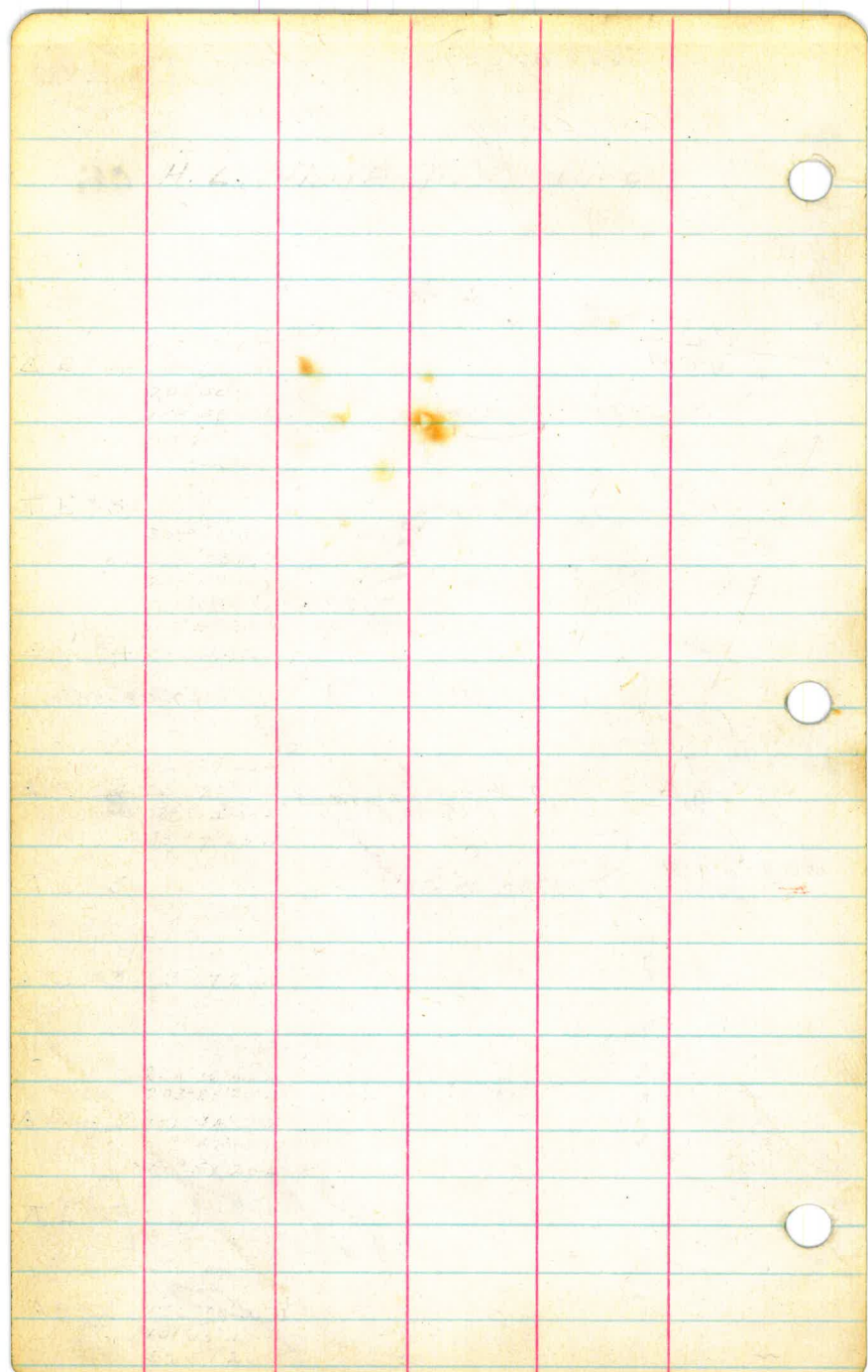
④

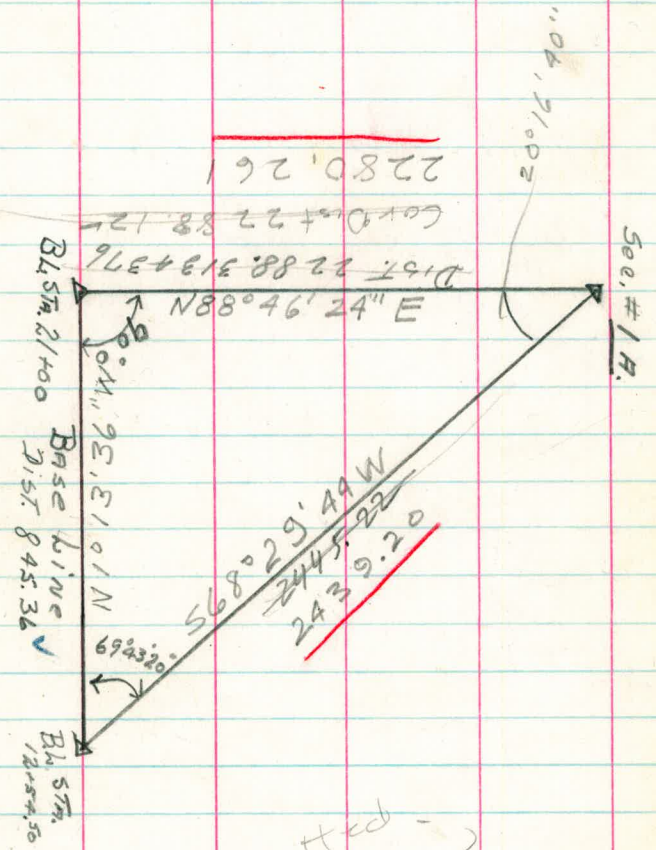
Cool - Cloudy

46



Plotted
J.R.

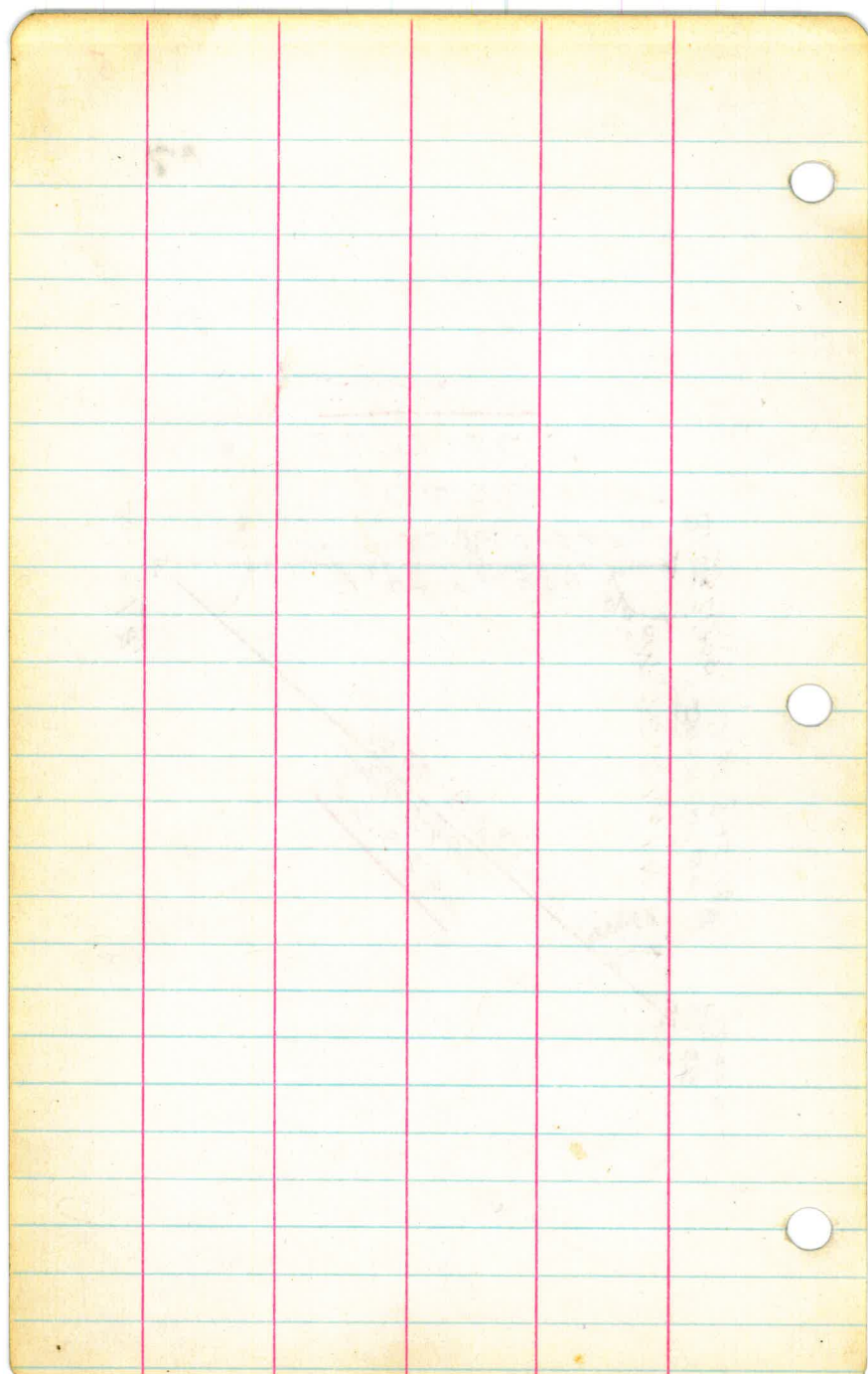


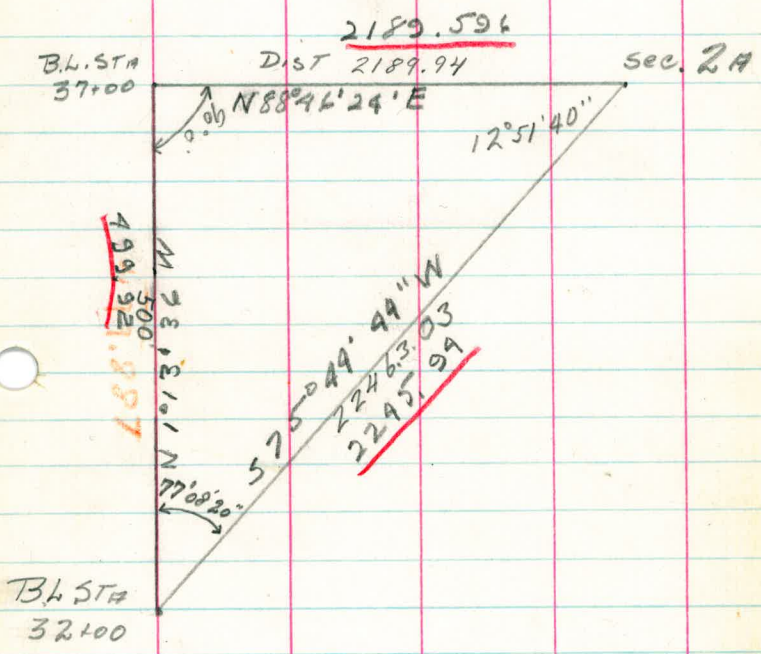


Plotted -

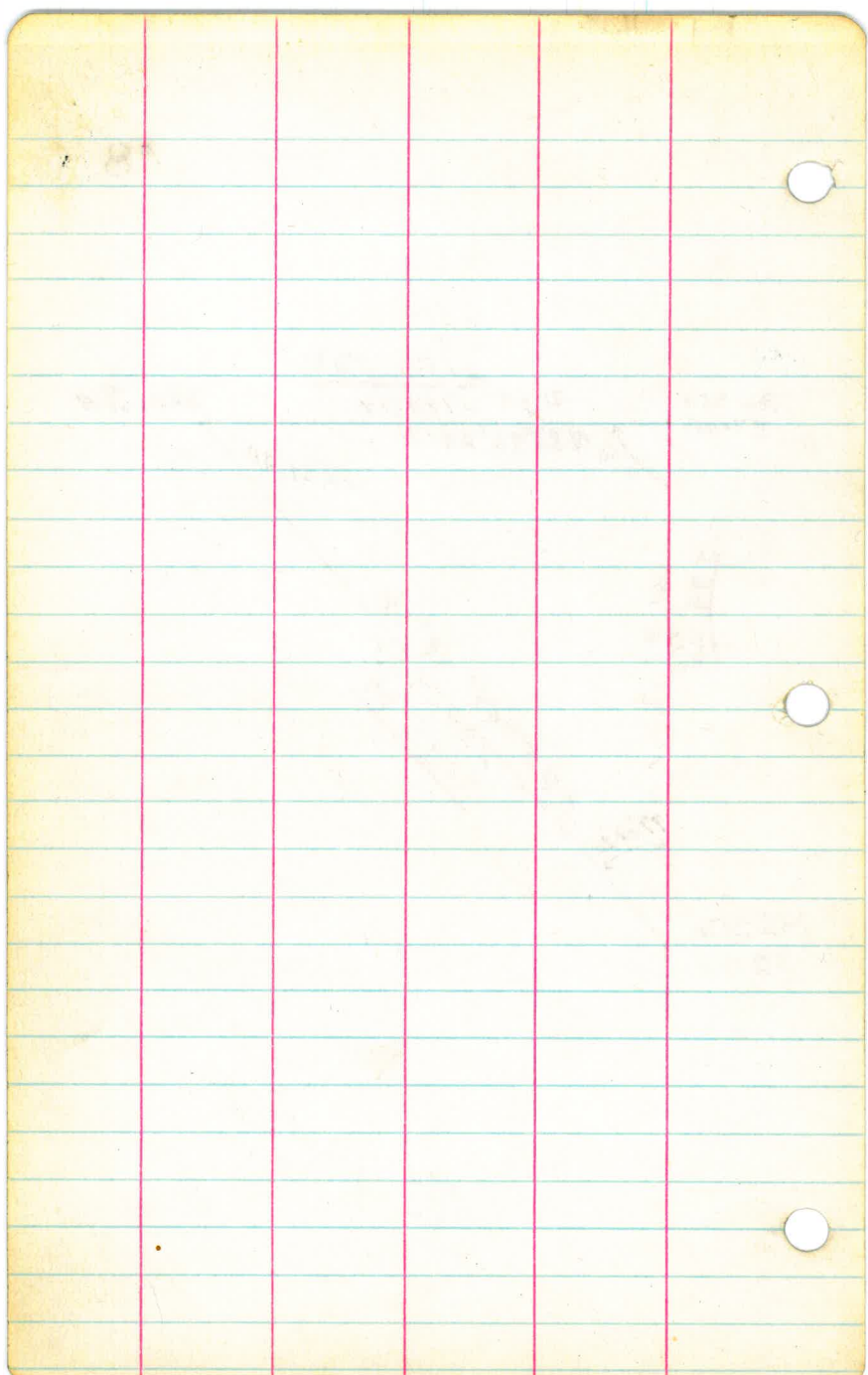
cl. u.

JB





calc
 JB
 Plotted



Secondary Points

Flo

19

5

Secondary Points

432020

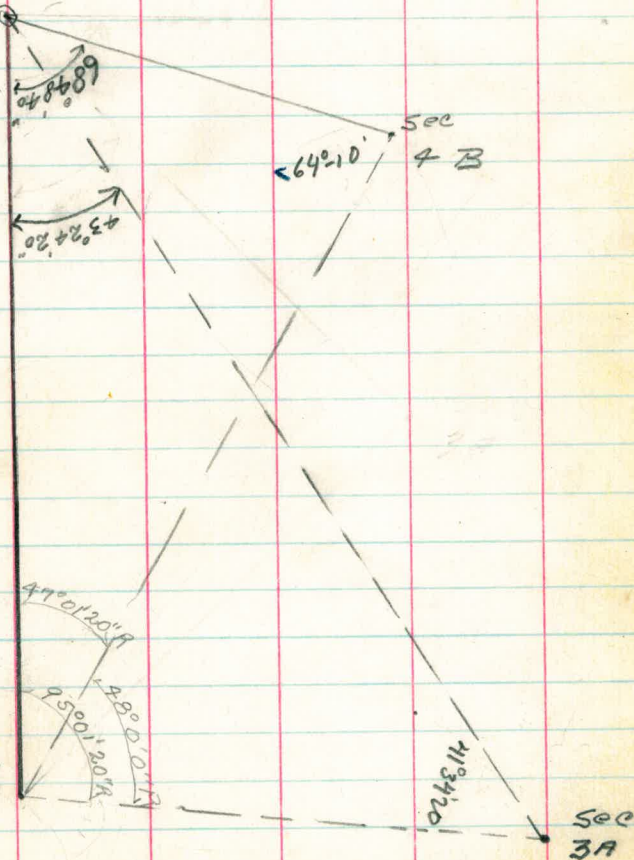
MAR 10 7 41 1927

PERSON - CHIC
ANDREWS - T
HEFFERNAN - CHAIN
MATTEON - CHAIN

Secondary Points

50

B.L. POT
EXT. T



Plotter F.L.

⑥

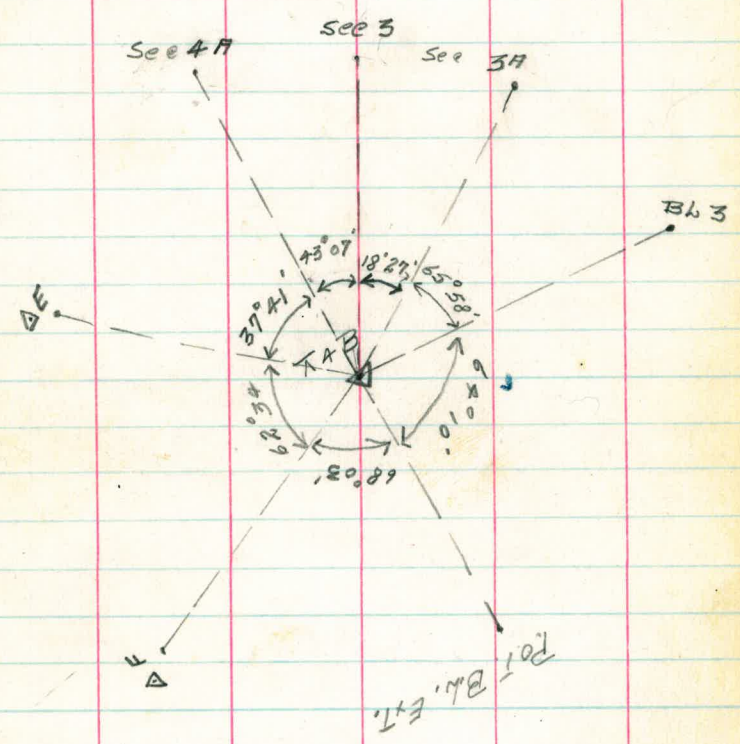
Secondary Points

MAY 10th 1927

6

YET GREEN - Chief
ANDREWS T.
HEFFERNAN Chain
MATTOON Chain

51



⑦

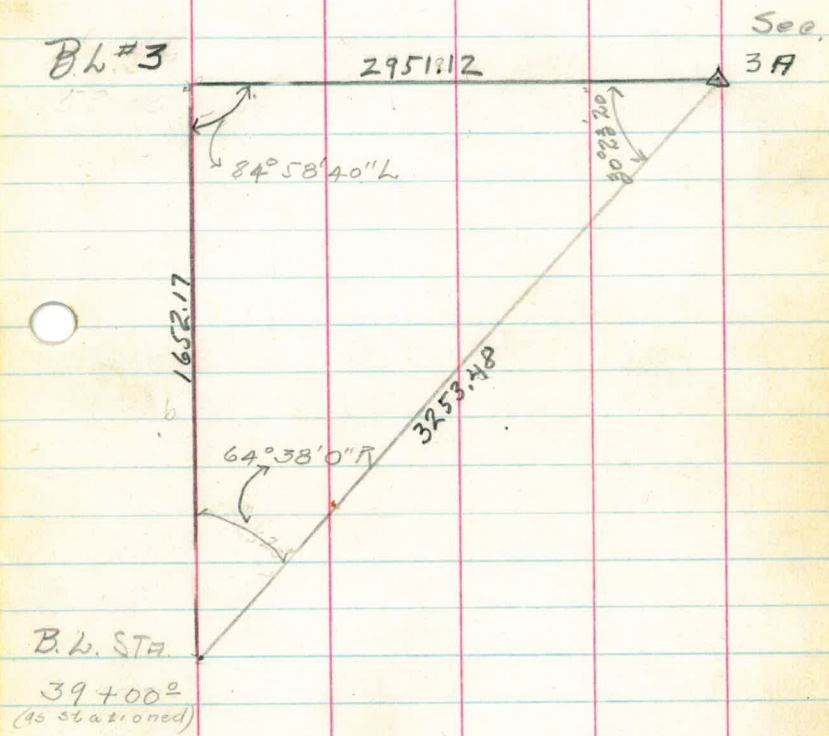
Secondary Points

MAR 8TH 27

7

Ferguson - Chief
Andrews - π
MATTOON - Chain

52



Plotted F.L.

⑧

Secondary Points

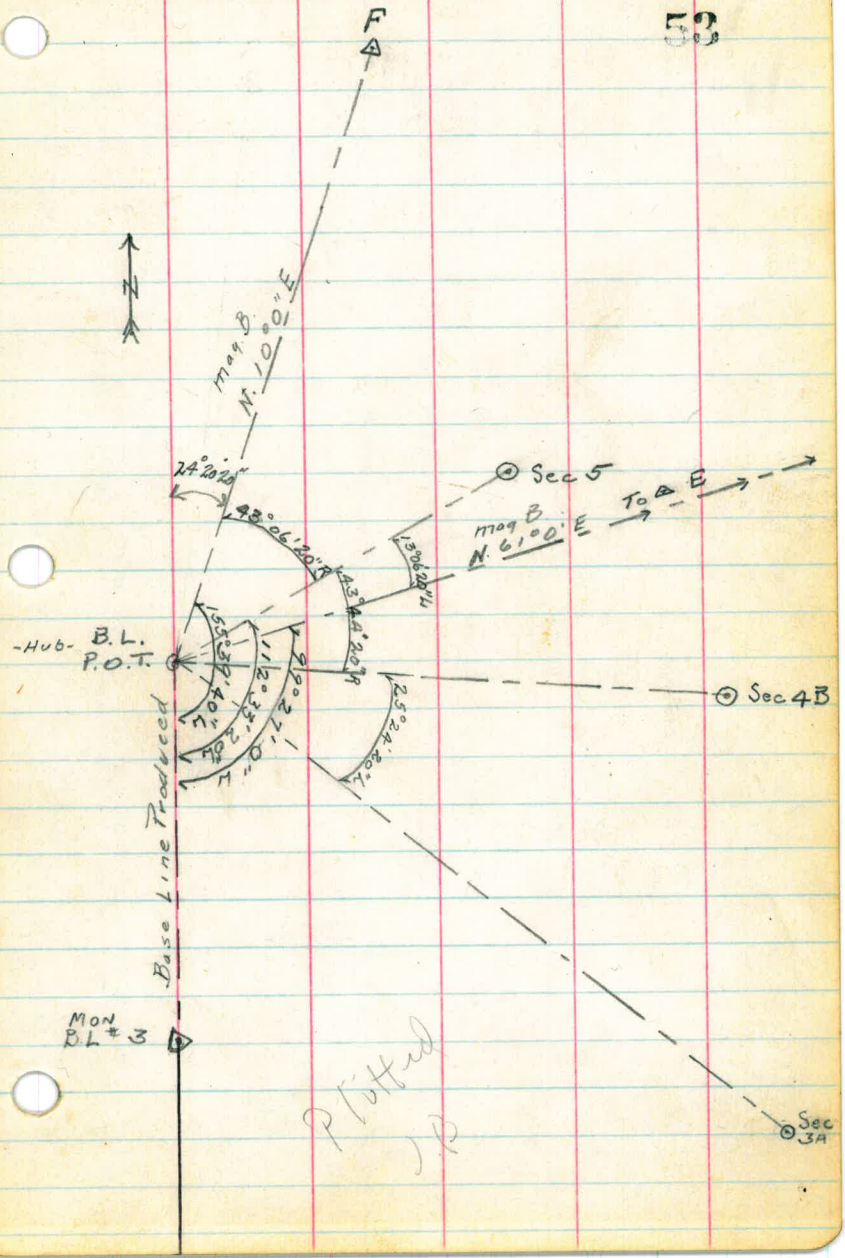
March - 10th

8

Ferguson - City
Andrews - A
Hoffman, Rec
Mattoon, Chain

Clear - Warm - Light Winds

53



⑨

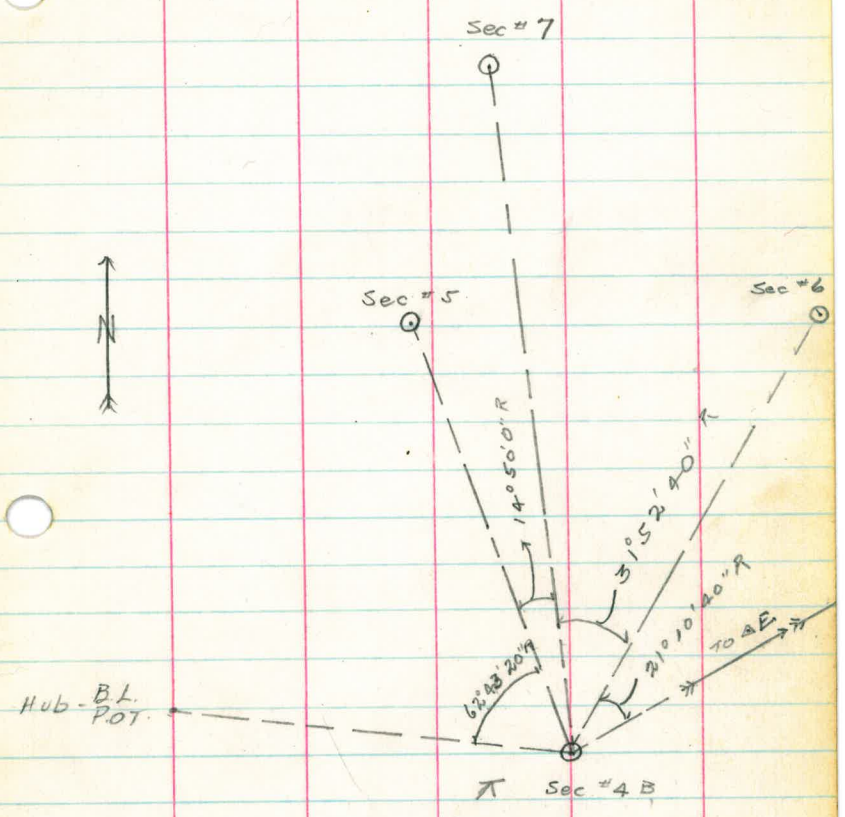
Secondary Points

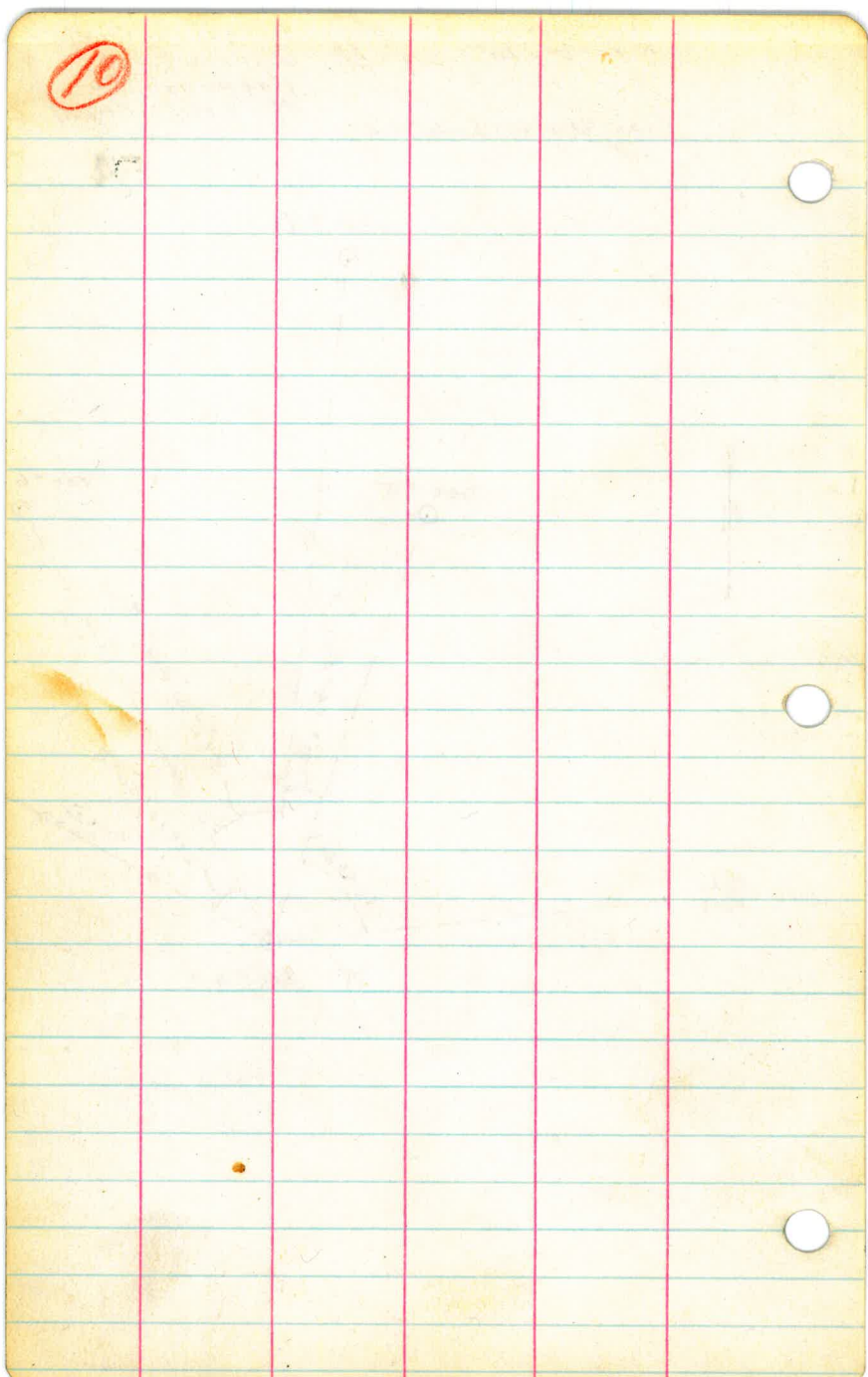
March - 10th - 27 (9)

Ferguson - Chief
Andrews - T
Heggeman - Rec.
Mattoon - Chord

Clear Warm - Light Winds

54



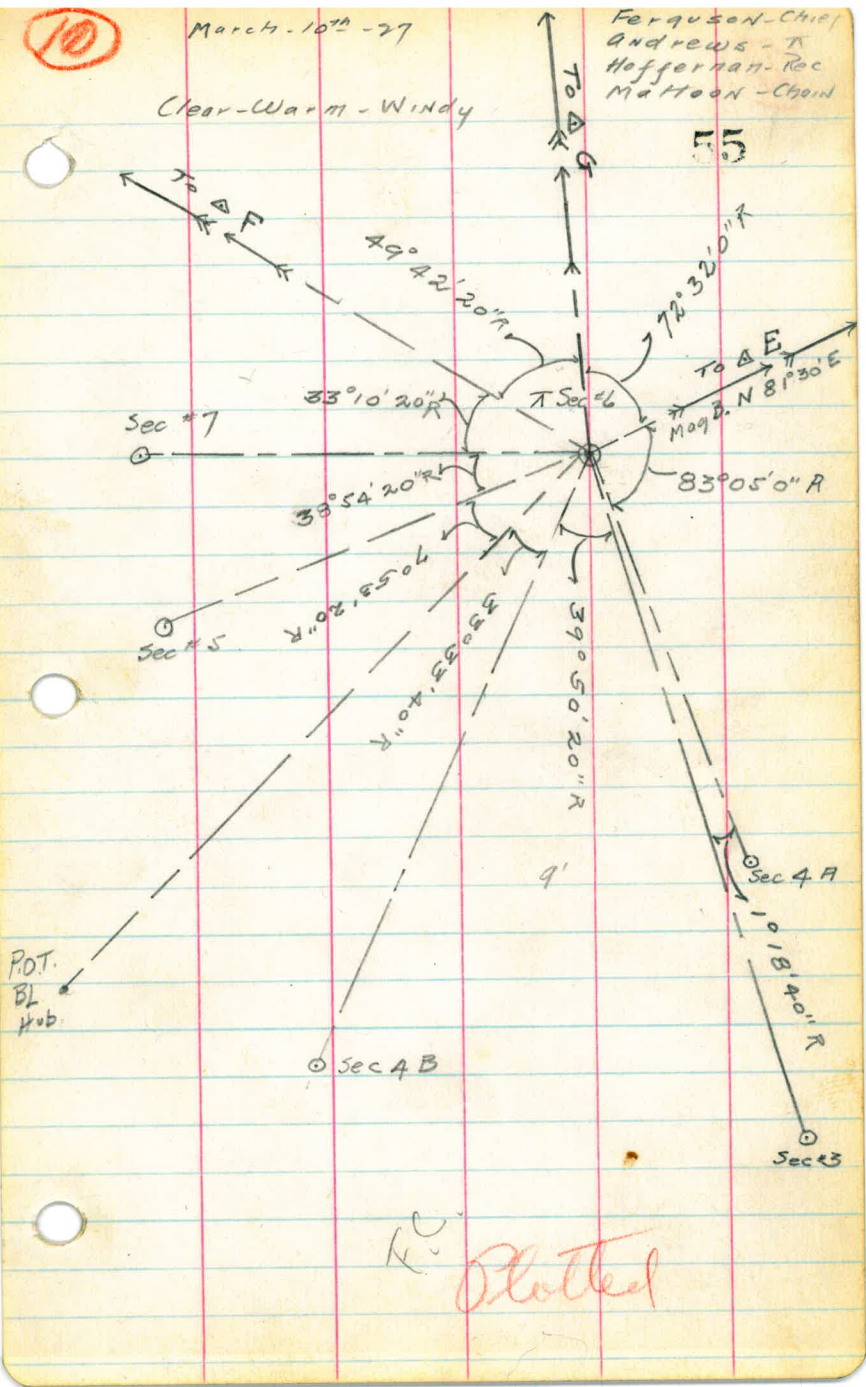


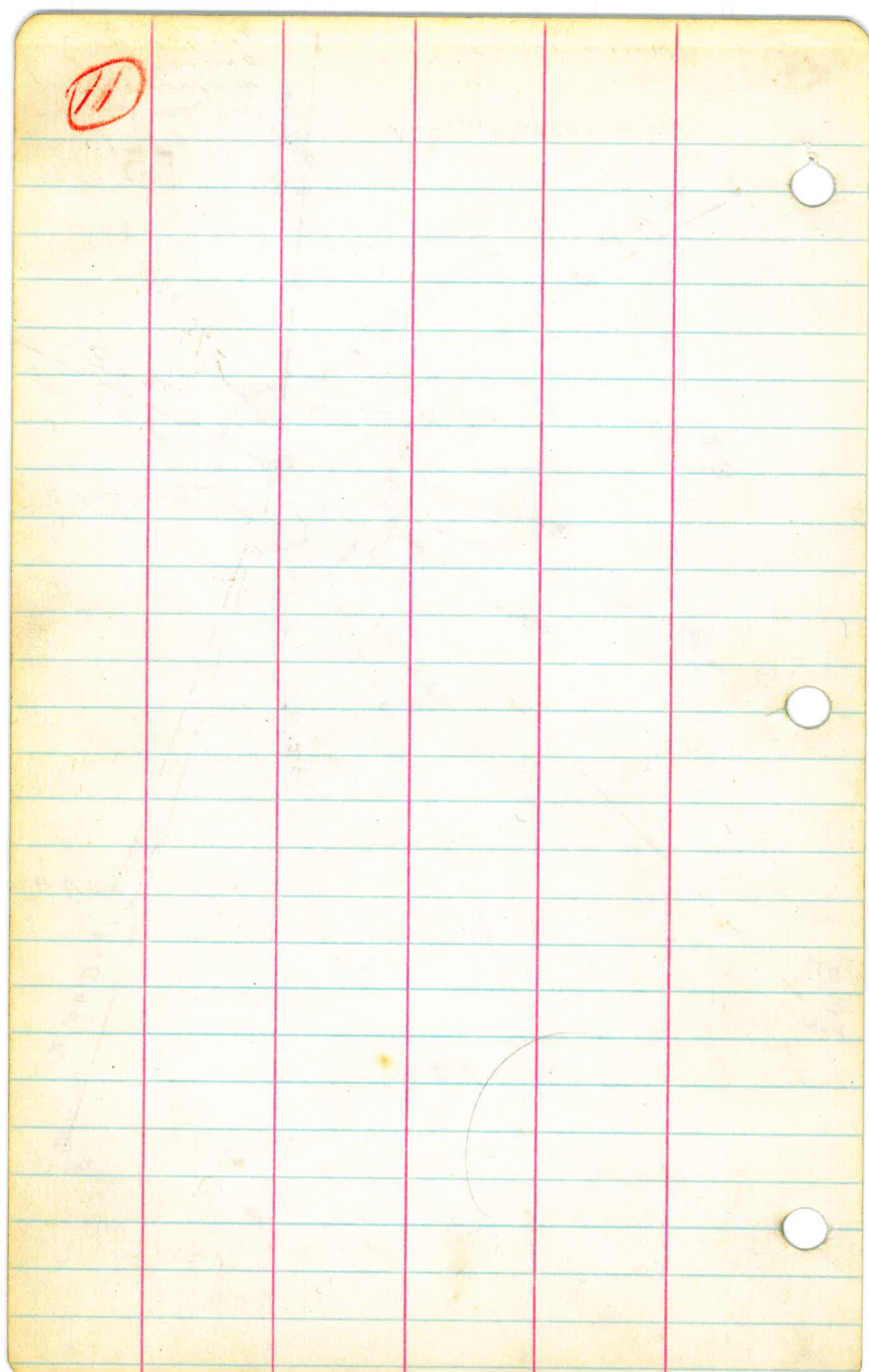
10

March - 16th 27

Clear - Warm - Windy

Ferguson - Chief
Andrews - T
Hofferman - Rec
Mattoon - Chord





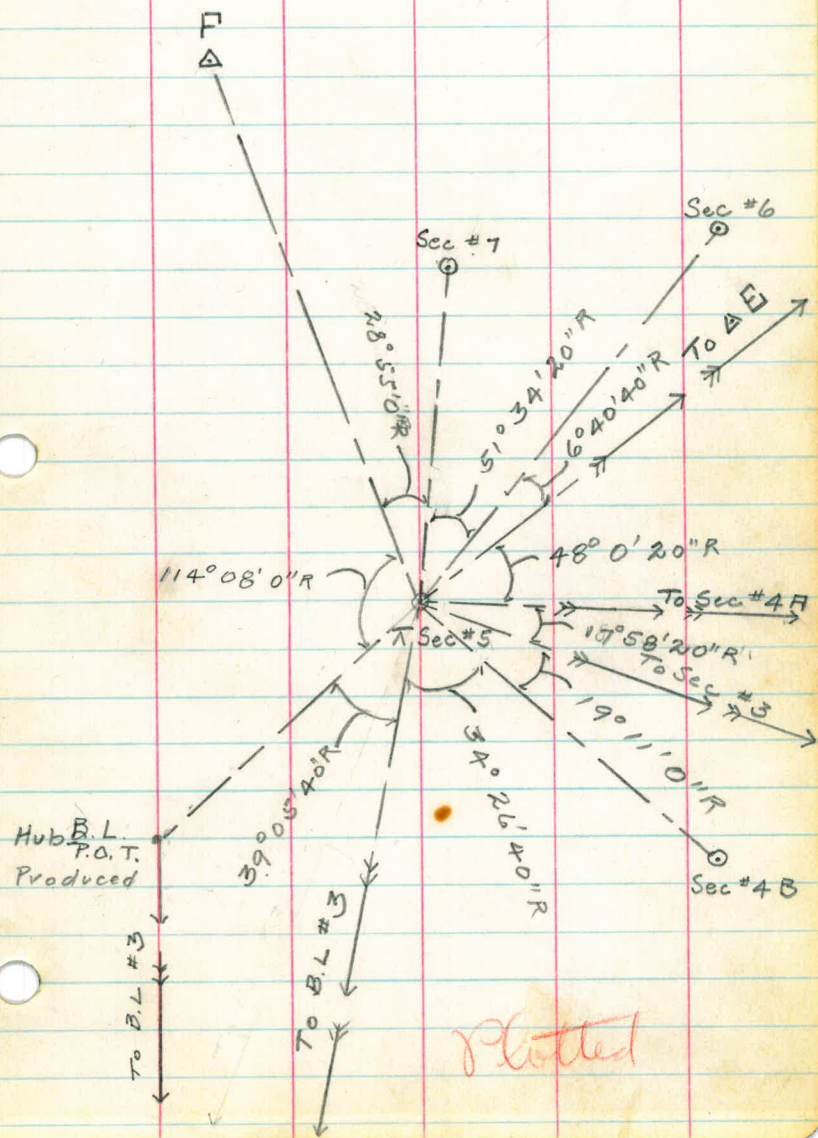
(11)

March 10th - 27

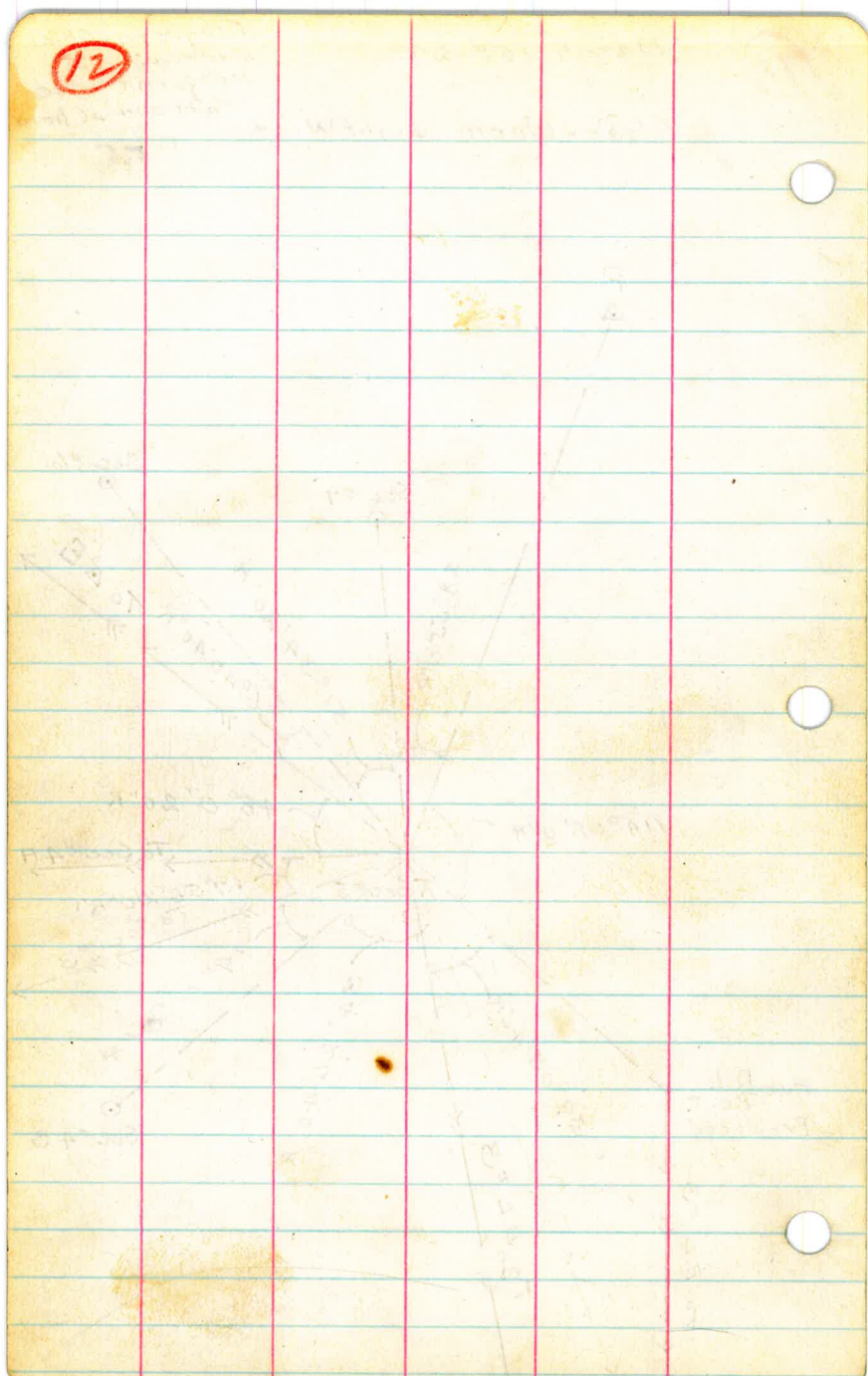
Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Chain

Clear - Warm - Light Wind

F.F.



12



12

57

12

Secondary Points

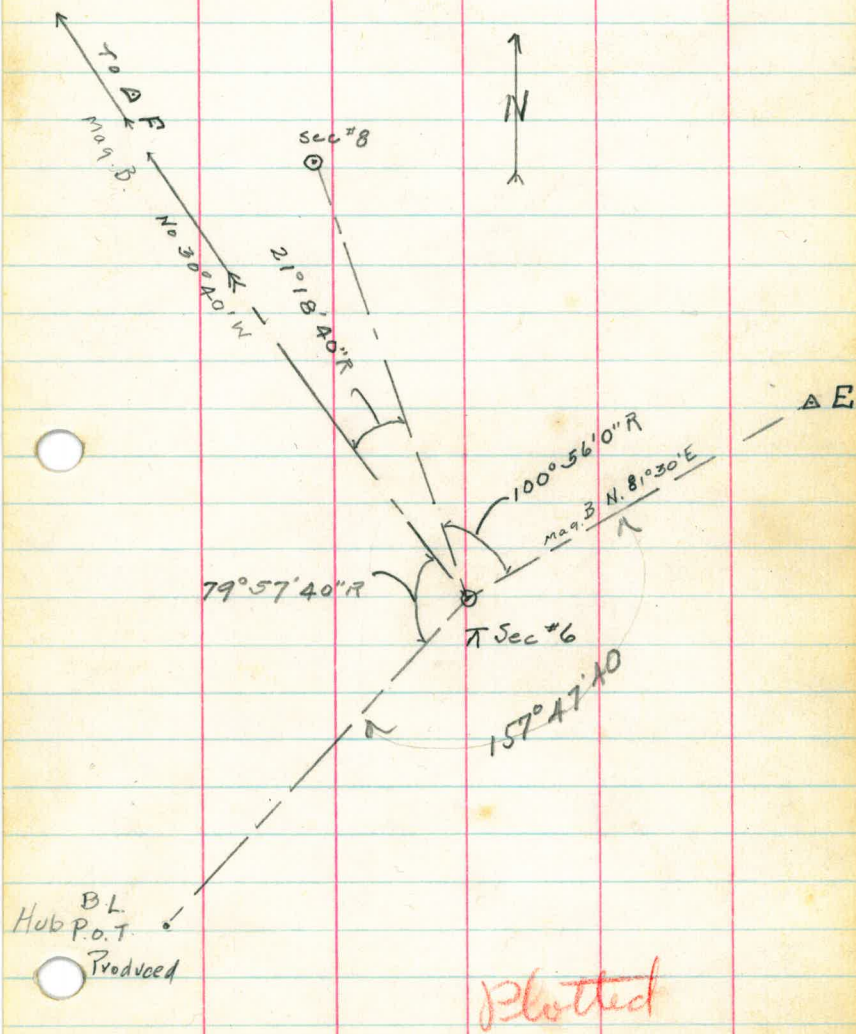
March 11th - 27

Ferguson - Chief
Andrews - T
Hejferman - Rec
Bush - Chain

12

Clear - Warm

58



13

Secondary Points

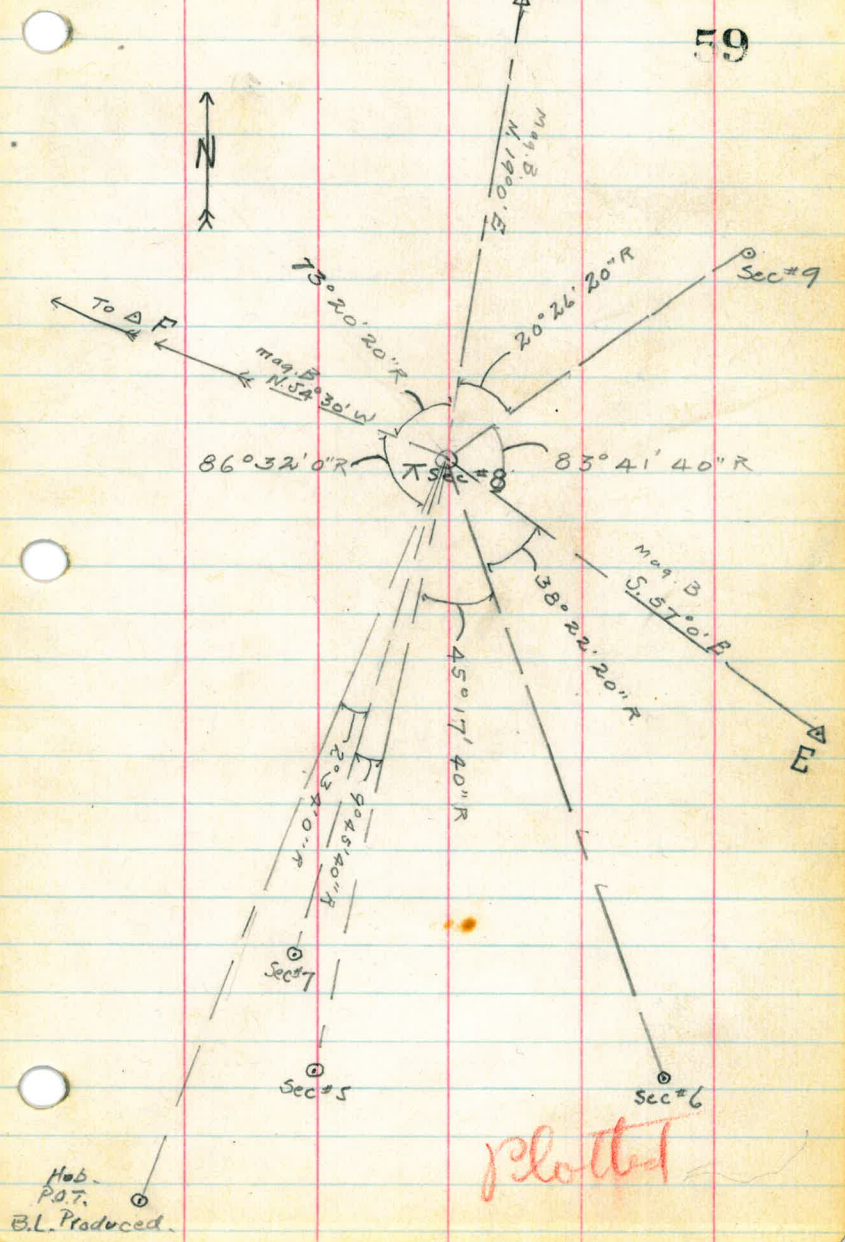
March - 11th 27

13

Ferguson Chief
Andrews - T
Heffernan - Rec
Bush - - chain

Clear-Warm

59



Plotted

Hub
P.O.T.
B.L. Produced.

14

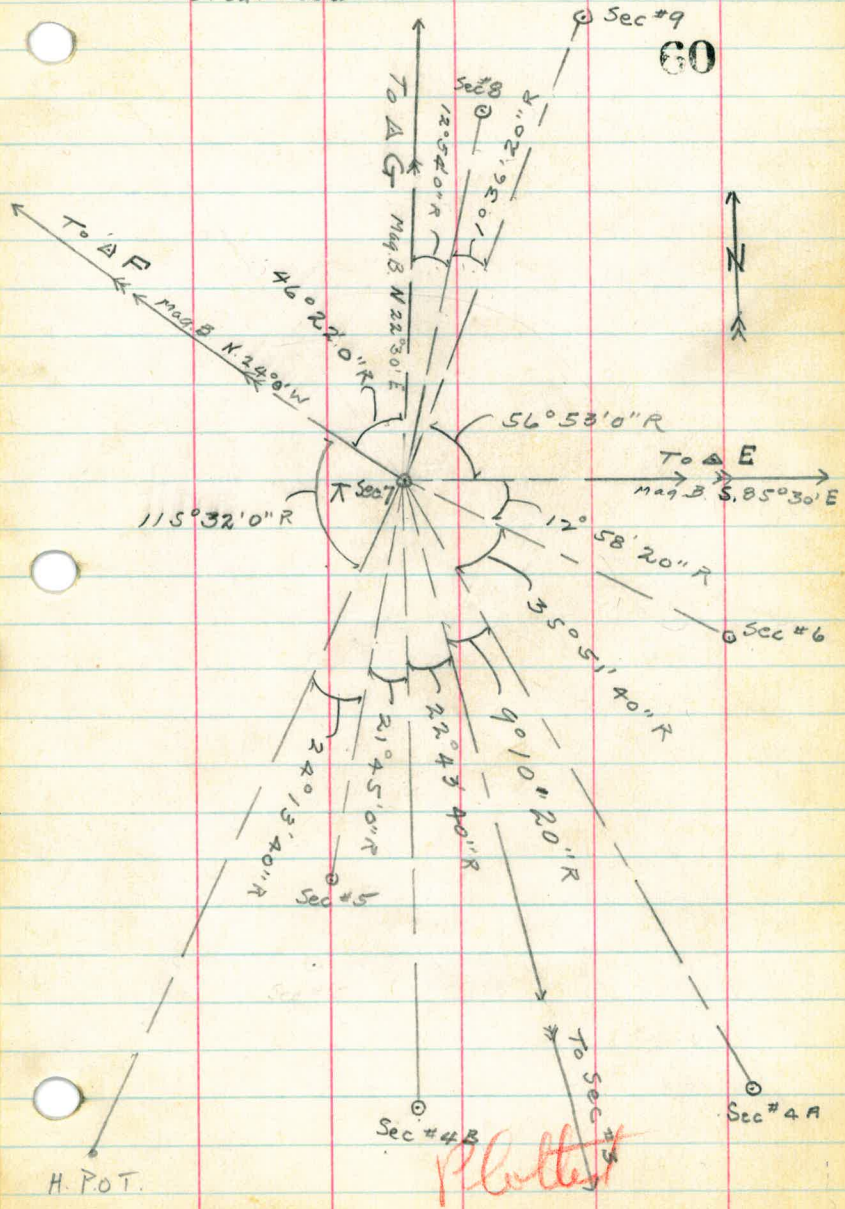
Secondary Points

March - 11th - 27

14

Ferguson - Chief
Andrews - T
Heffernan - Rec

Clear - Warm



H.P.O.T.
B.L. Produced

(105)

Secondary Points.

March - 11th 27

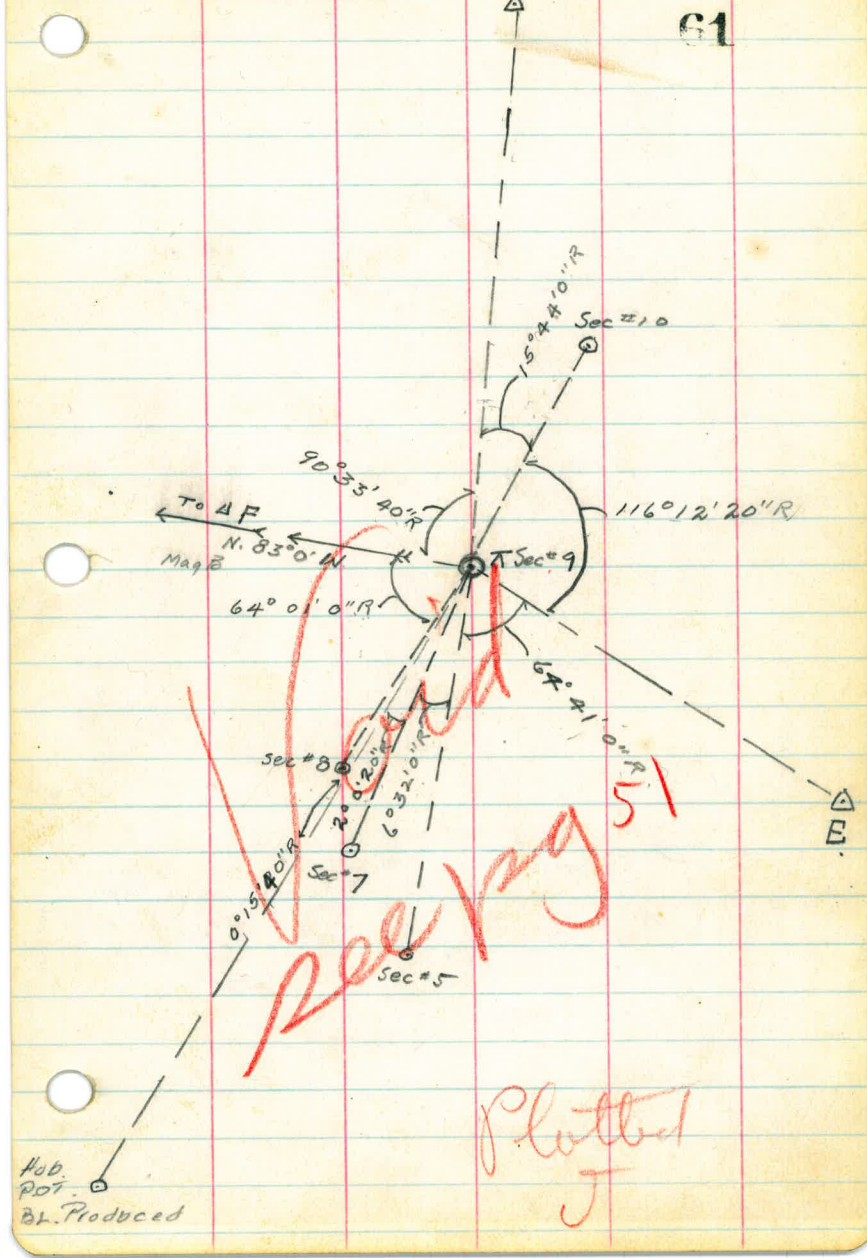
15

Ferguson - Chief
Andrews - X
Hefferman - Rec
Bush - chain

Clear - Warm.

G

61



16

Secondary Points

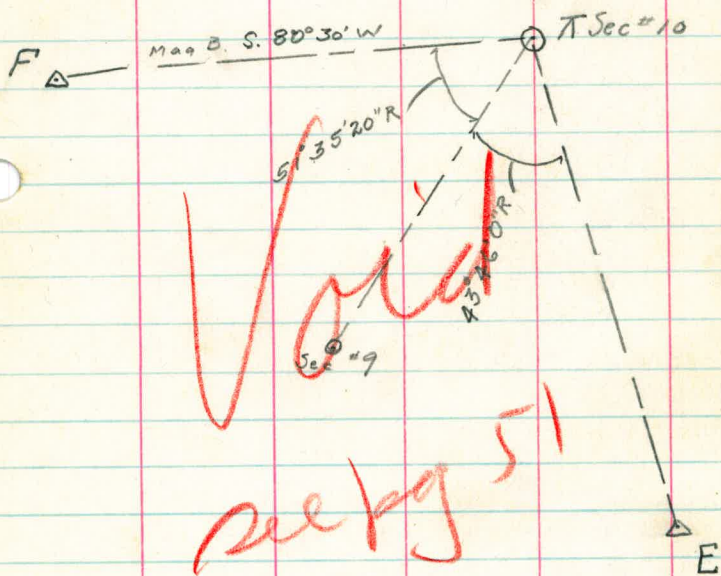
March 11th 27

Ferguson - Chief
Andrews - T
Hepburn - Rec

16

Clear - Warm

67



Plot

(17)

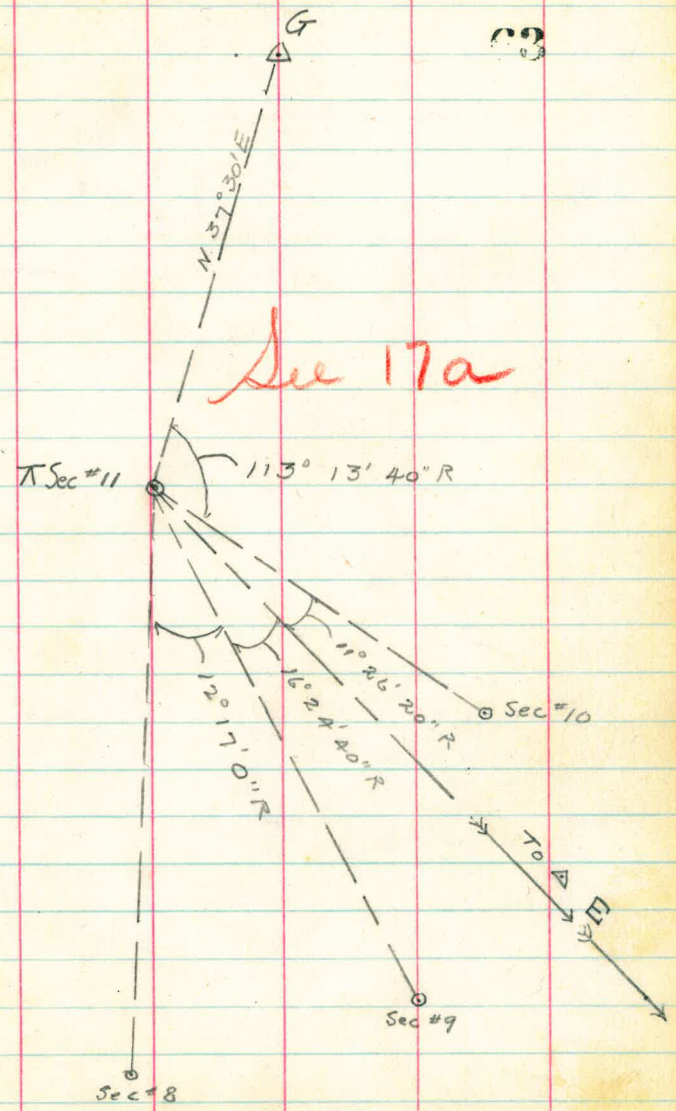
Secondary Points

March 11th - 27

17

Ferguson - Chief
Andrews - T
Heffernan - Rec

Clear - Warm



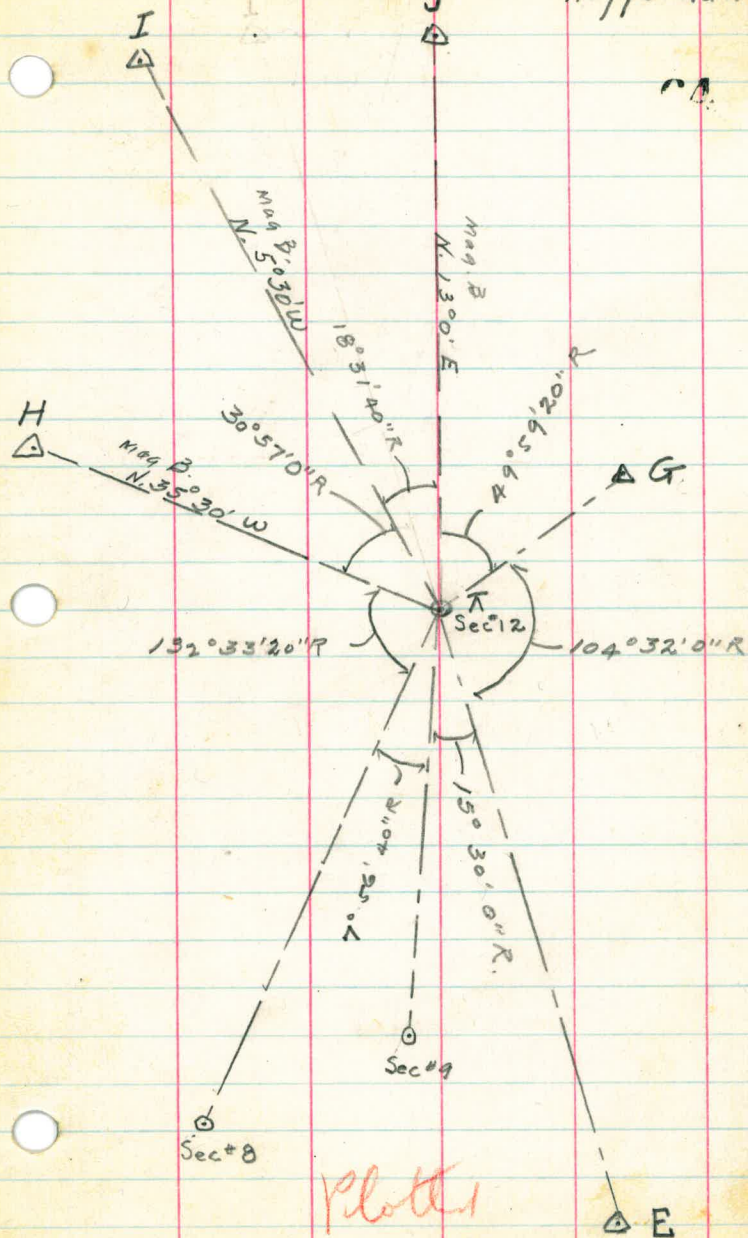
18

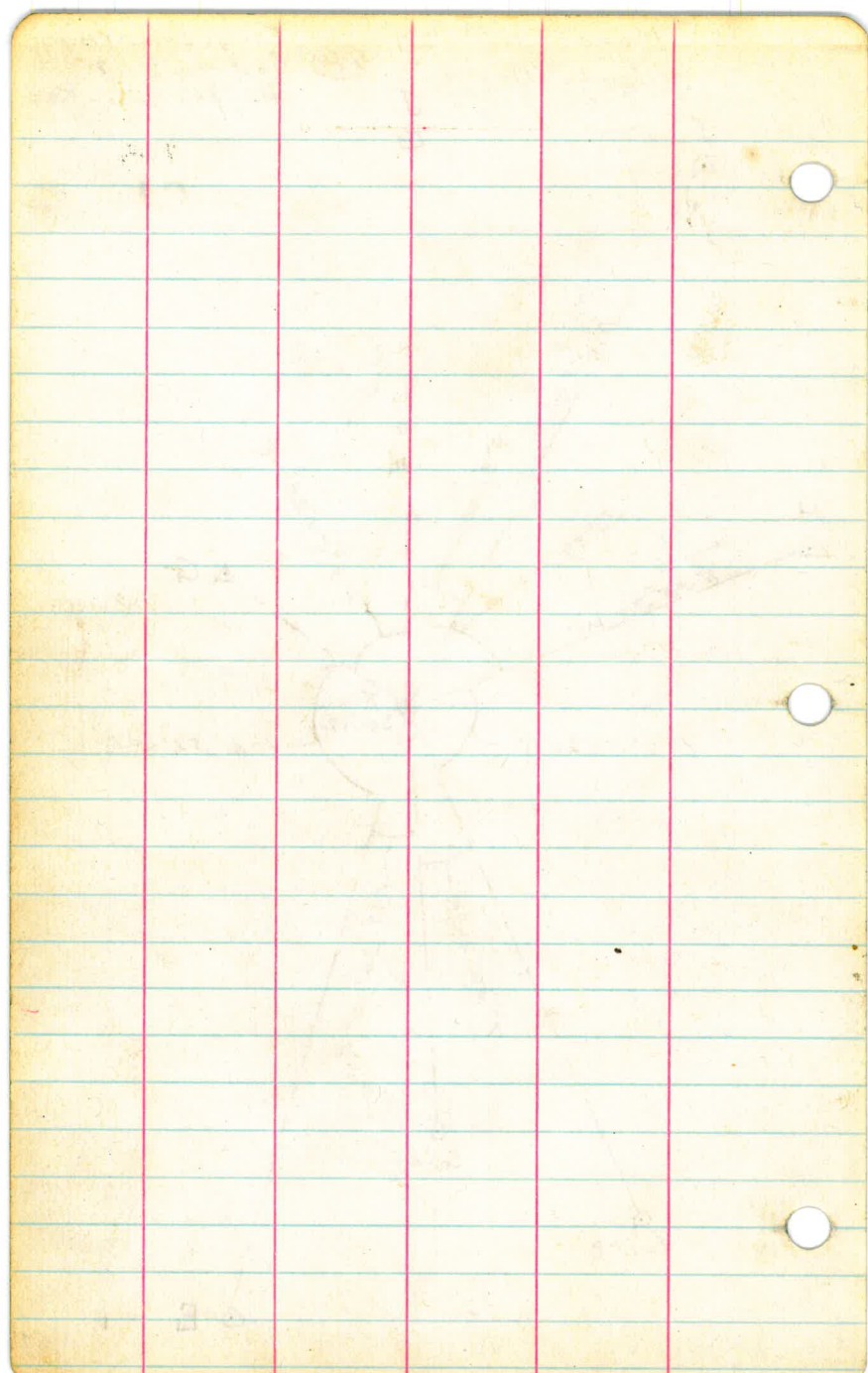
Secondary Points

March 11th - 27
Clear - Warm

(18)

Ferguson - Chief
Andrews - T
Heffernan - Rec.





65

Sec Points

19

Secondary Points



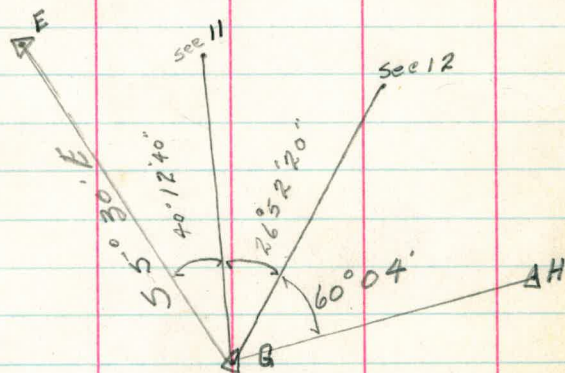
MAY 12th 1977

Clear Warm

Ferdinand Chica
Andrew T
Heggeman
MATTOON

19

66



Plotted

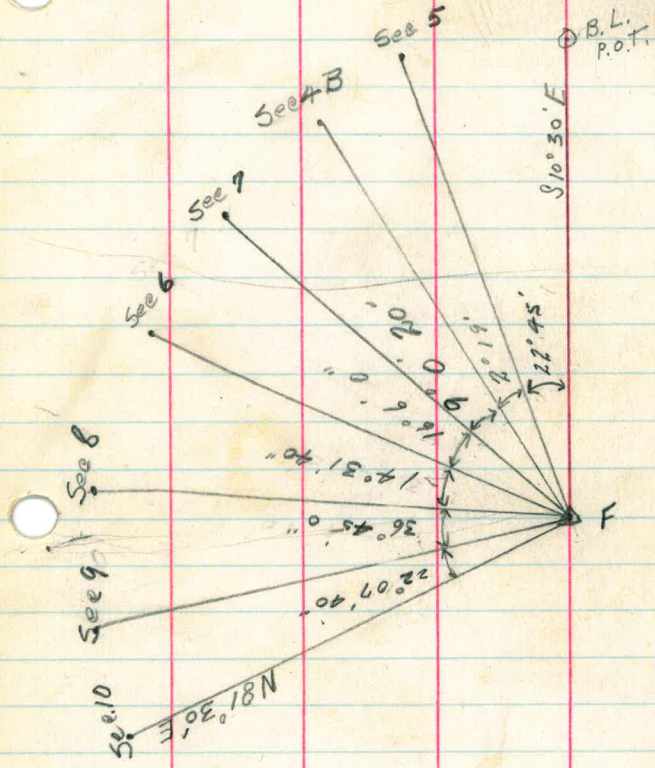
20

Secondary Points

Secondary Points

Ferguson
Andrew's
MATTSON

20



Plotted

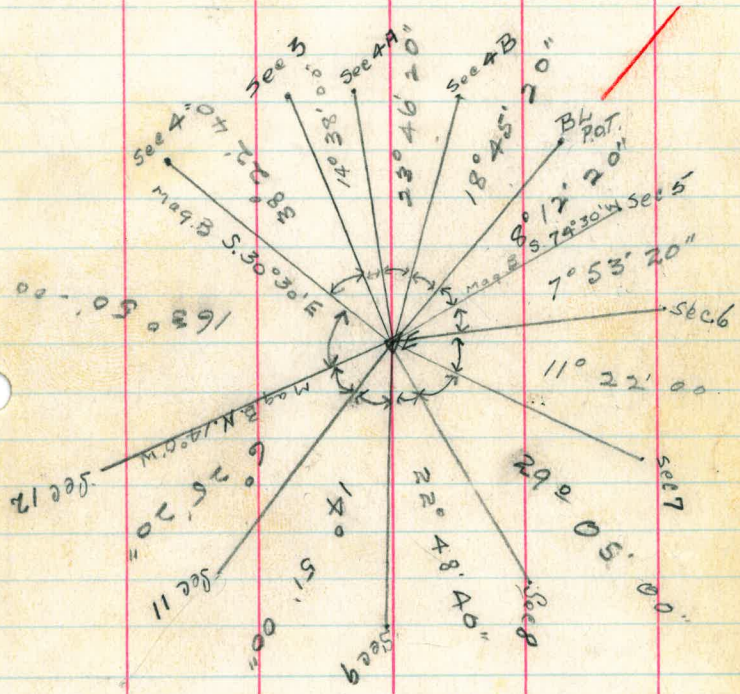
(21)

Secondary Points

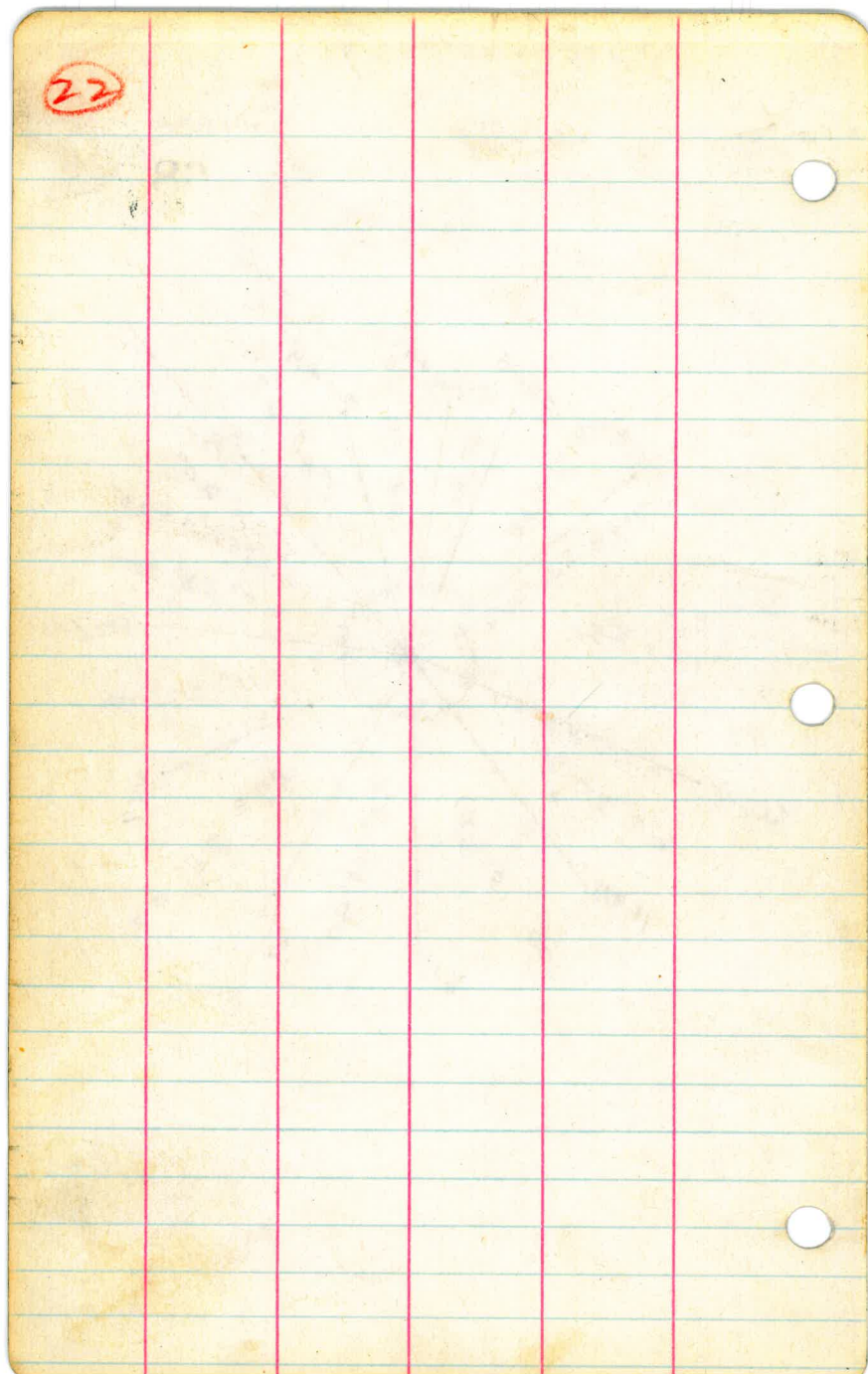
March-16th-77

(21)

68



Plotted



23

69

(23)

Secondary Points

Cont Page 24

37° 18' 40" L
37° 18' 40" R
18° 39' 20" L

⊙ Sec #14

△ A H

37° 18' 40" R
18° 39' 20" R

⊙ B.M. #28

0° 16' 20" L
0° 08' 20" L

⊙ B.M. #28

△ A H

0° 16' 40" R
0° 08' 20" R

⊙ Sec #15

6° 53' 40" L
3° 26' 50" L

⊙ Sec #15

△ A H

6° 53' 40" R
3° 26' 50" R

⊙ Sec #15 A



Topog PT
30° 39' 40" L
15° 19' 50" L

⊙ Sec #15 A

△ A H

30° 39' 40" R
15° 19' 50" R

⊙ Sec #16

32° 45' 20" L
16° 22' 40" L

⊙ Sec #16

△ A H

32° 45' 20" R
16° 22' 40" R

⊙ Sec #17

30° 17' 20" L
15° 08' 40" L

⊙ Sec #17

△ A H

30° 17' 20" R
15° 08' 40" R

△ I

March 28-29

Ferguson - Chief
Andrews - Rec
Hefferman - Rec
Mattoon - Chief

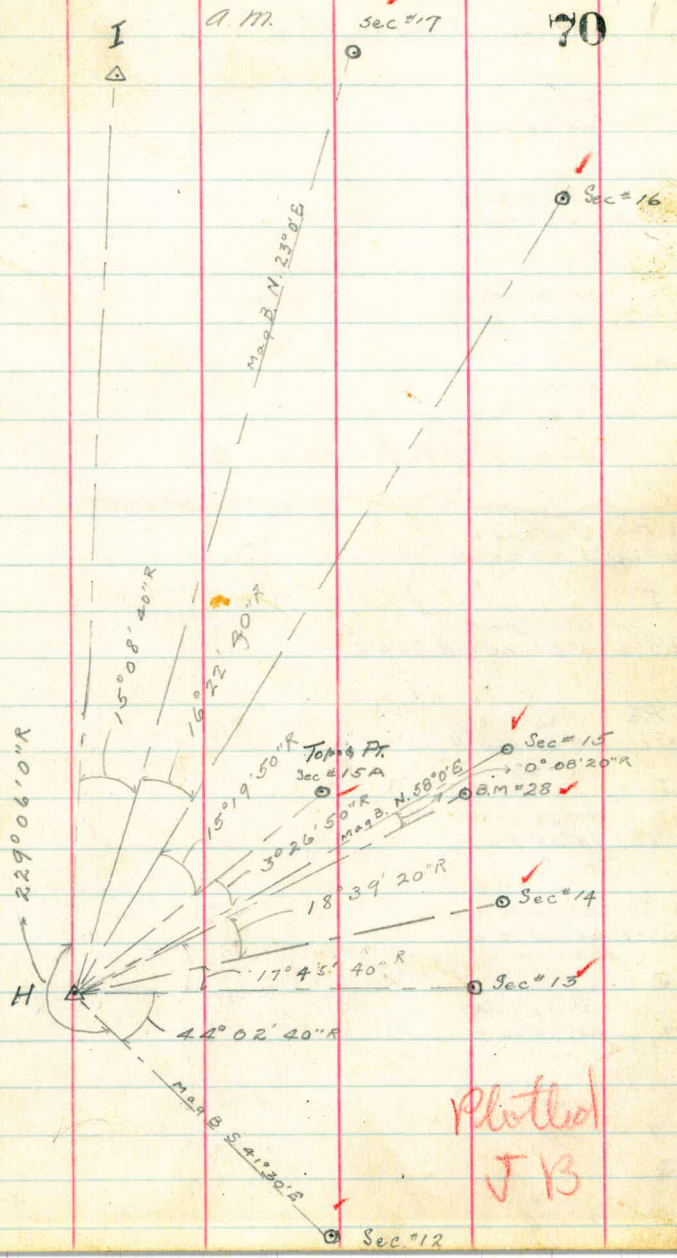
(23)

Clear - Warm

a.m.

Sec #17

70



Plotted
J B

24

Secondary Points

H. L. Mag B Tru B Disc

Topog Pts.
Sec #12 88°05'20" L
44°02'40" R

T A H

Sec #13 88°05'20" R
44°02'40" R

Sec #13 35°31'20" L
17°45'40" L

T A H

Sec #14 35°31'20" R
17°45'40" R

See Sketch - Page 23

Topog Pts.
Sec #20 6°10'40" L
3°05'20" L

T A J

Sec #19 6°10'40" R
3°05'20" R N 22°0' E

Topog Pts.
Sec #19 37°26'0" L
18°43'0" L N. 22°0' E

T A J

Sec #18 37°26'0" R
18°43'0" R

Topog Pts.
Sec #18 127°48'40" L
63°54'20" L

T A J

#17 127°48'40" R
63°54'20" R

Sec #17 43°54'0" L
21°57'0" L

T A J

A J 43°54'0" R
21°57'0" R

March - 28 27

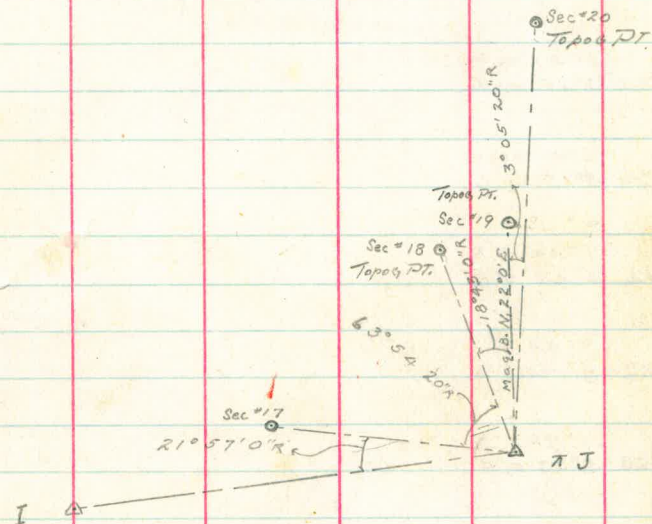
Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chain

24

Clear - Warm

A.M.

71



Plotted

J.B.

(25)

Secondary Points

o Sec #16 52° 0' 0" R
26° 0' 0" R

X Δ I

o Sec #15 52° 0' 0" L
26° 0' 0" L

o Sec #15 60° 31' 20" R
3° 15' 40" R

X Δ I

o Sec #14 60° 31' 20" L
3° 15' 40" L

o Sec #14 9° 34' 0" R
4° 47' 0" R

X Δ I

o B.M.#28 9° 34' 0" L
4° 47' 0" L

o B.M.#28 11° 06' 0" R
5° 33' 0" R

X Δ I

o Sec #13 11° 06' 0" L
5° 33' 0" L

o Sec #13 27° 06' 0" R
13° 33' 0" R

X Δ I

o Sec #12 27° 06' 0" L
13° 33' 0" L

o Sec #12 36° 17' 20" R
18° 08' 20" R

X Δ I

Δ H 36° 17' 20" L
18° 08' 40" L

March 28-27

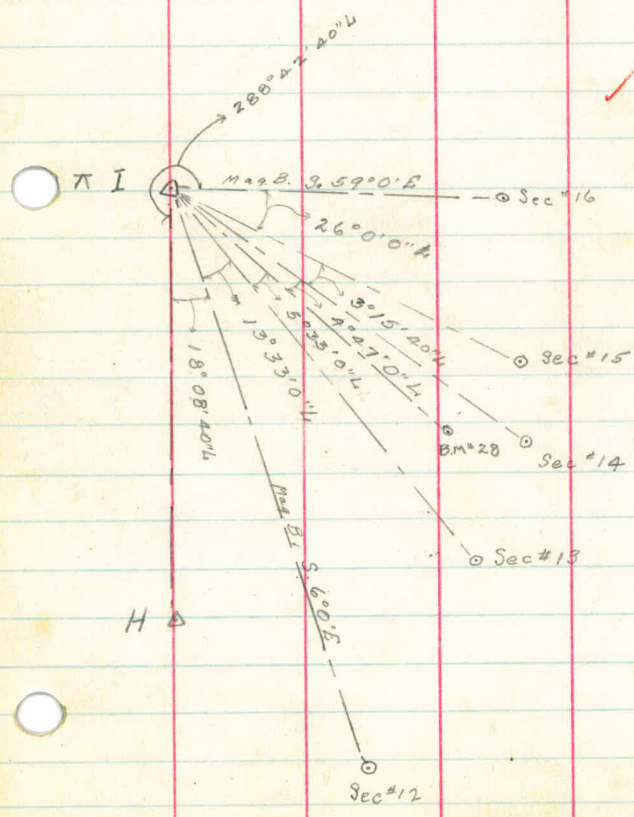
Clear - Cool - Windy

P.M.

Ferguson - Chief
Andrews - T
Hoffmann - Rec
Mattoon - Chain

25

72



26

H L. Mag B. Tru B Dist

	68° 54' 20" N	Topog. Point
Sec 15A	34° 27' 20" N	
TAG		
AH	68° 54' 10" R	
	34° 27' 20" R	

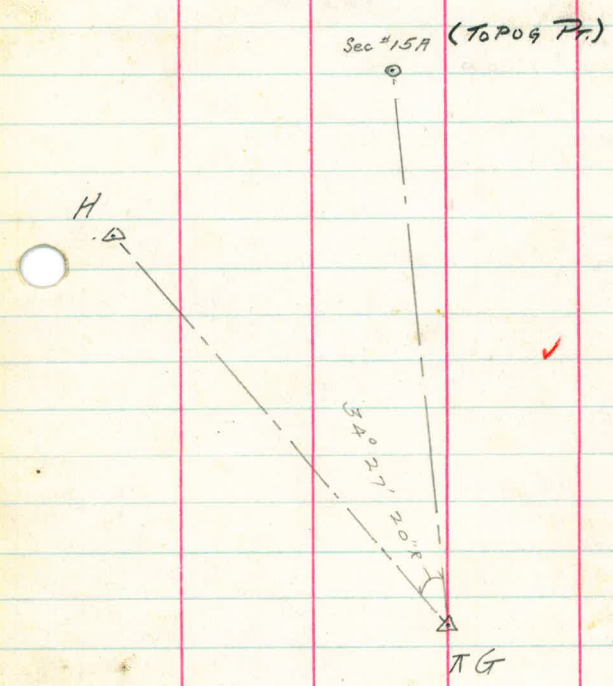
March. 29-27

Cloudy-Cool

Andrews, T
Jefferson, Rec
Mottom - Chair

26

73



(27)

Secondary Points

H. L. Mag B Tru B. Dist

Con't on Pages 28 & 29

o Sec #23 32° 15' 20" R
16° 07' 40" R

T A L
(B.M.) 32° 15' 20" L

o Sec #22 16° 07' 40" S, 7° 30' E

o Sec #22 31° 06' 0" R
15° 33' 0" R, 3° 30' E

T A L
o Sec #21 31° 06' 0" L
15° 33' 0" L

o Sec #21 7° 51' 20" R
3° 55' 40" R

T A L
o Sec #20 7° 51' 20" L
3° 55' 40" L

o Sec #20 3° 28' 0" R
1° 44' 0" R

T A L
o Sec #19 3° 28' 0" L
1° 44' 0" L

o Sec #19 3° 39' 20" R
1° 49' 40" R

T A L
o Sec #18 3° 39' 20" L
1° 49' 40" L, 3.15° 45' W

o Sec #18 29° 35' 20" R
14° 17' 40" R, 3.15° 45' W

T A L
o I. 29° 35' 20" L
14° 17' 40" L

19

Secondary Points

H.L. Mag B Tru. B Dist

See Sketch - Page 27

⊙ Sec #29 $6^{\circ}33'20''R$
 $3^{\circ}16'40''R$

$\pi \Delta L$

⊙ Sec #28 $6^{\circ}33'20''L$
 $3^{\circ}16'40''L$

⊙ Sec #28 $13^{\circ}52'0''R$
 $6^{\circ}56'0''R$

$\pi \Delta W$

⊙ Sec #27 $13^{\circ}52'0''L$
 $6^{\circ}56'0''L$

⊙ Sec #27 $4^{\circ}31'20''R$
 $2^{\circ}15'40''R$

$\pi \Delta L$

⊙ Sec #26 $4^{\circ}31'20''L$
 $2^{\circ}15'40''L$

⊙ Sec #26 $36^{\circ}12'40''R$
 $18^{\circ}06'20''R$

$\pi \Delta L$

⊙ Sec #25 $36^{\circ}12'40''L$
 $18^{\circ}06'20''L$

⊙ Sec #25 $22^{\circ}20'0''R$
 $11^{\circ}10'0''R$

$\pi \Delta L$

⊙ Sec #24 $22^{\circ}20'0''L$
 $11^{\circ}10'0''L$

⊙ Sec #24 $22^{\circ}51'20''R$
 $11^{\circ}25'40''R$

$\pi \Delta L$

⊙ Sec #23 $22^{\circ}51'20''L$
 $11^{\circ}25'40''L$

Secondary Points

29

March-29-27 - Cool-Cloudy-Rain

H.L. MagB Tru B. Dist

75

See Sketch - Page 27

o Sec#32 $4^{\circ}44'40''R$
 $2^{\circ}22'20''N. 89^{\circ}30'E$

TAL

o Sec#31 $4^{\circ}44'40''L$
 $2^{\circ}22'20''L$

o Sec#31 $6^{\circ}0'0''R$
 $3^{\circ}0'0''R$

TAL

o Sec#30 $6^{\circ}0'0''L$
 $3^{\circ}0'0''L$

o Sec#30 $17^{\circ}38'0''R$
 $8^{\circ}49'0''R$

TAL

o Sec#29 $17^{\circ}38'0''L$
 $8^{\circ}49'0''L$

29

Secondary Points

H. L. Mag B. TRU B. Dist

Cont Page 30

o Sec #27 ^{63° 14' 0" L}
31° 37' 0" H

T Δ N

o Sec #28 ^{63° 14' 0" R}
~~31° 37' 0" R~~

o Sec #28 ^{19° 23' 20" L}
9° 41' 40" H

T Δ N

o Sec #29 ^{19° 23' 20" R}
9° 41' 40" R S. 20° 30' E

o Sec #29 ^{65° 26' 40" L}
32° 43' 20" S. 20° 30' E

T Δ N

o Sec #30 ^{65° 26' 40" R}
32° 43' 20" R

o Sec #30 ^{26° 40' 0" L}
13° 20' 0" H

T Δ N

o Sec #31 ^{26° 40' 0" R}
13° 20' 0" R

o Sec #31 ^{20° 19' 40" L}
10° 09' 50" H

T Δ N

o Sec #32 ^{20° 19' 40" R}
10° 09' 50" R S. 76° 30' E

o Sec #32 ^{18° 49' 0" L}
9° 24' 30" L S. 76° 30' E

T Δ N

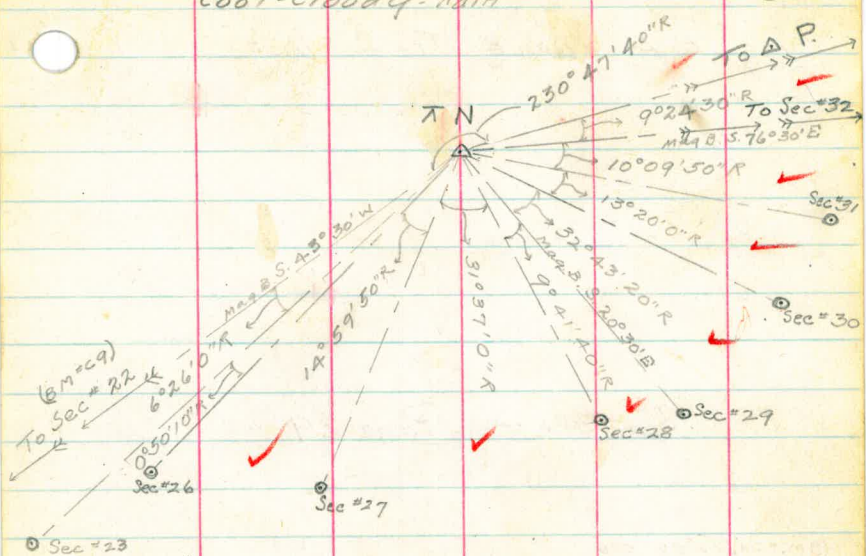
A P ^{18° 49' 0" R}
9° 24' 30" R

March-30-27

Cool-Cloudy-Rain

Ferguson - Line
Andrews - T
Hejerman - Rec
Mattoon - Chair

29
76



All Points are
Topog Points on
This sketch

30

Secondary Points

H L. Mag B. Tru B. Dist

See Sketch - Page 29

(B.M. + C9) $12^{\circ}52'0''L$
O Sec #22 $6^{\circ}26'0''L$ S. $43^{\circ}30'W$

T A N

O Sec #23 $12^{\circ}52'0''R$
 $6^{\circ}26'0''R$

O Sec #23 $1^{\circ}40'20''L$
 $0^{\circ}50'10''L$

T A N

O Sec #26 $1^{\circ}40'20''R$
 $0^{\circ}50'10''R$

O Sec #26 $29^{\circ}59'40''L$
 $14^{\circ}59'50''L$

T A N

O Sec #27 $29^{\circ}59'40''R$
 $14^{\circ}59'50''R$

30

177



31

Secondary Points

H.L. Mag. B. Tru. B. Dist

Topog Pt.

27° 35' 20" L
@ Sec #24 13° 47' 40" L

TAK

27° 35' 20" R
@ Sec #25 13° 47' 40" R H. 39° 15' E

↑

Topog Pt.

↓
5° 04' 40" L
@ Sec #25 2° 32' 20" L N. 39° 15' E

TAK

5° 04' 40" R
Δ M 2° 32' 20" R

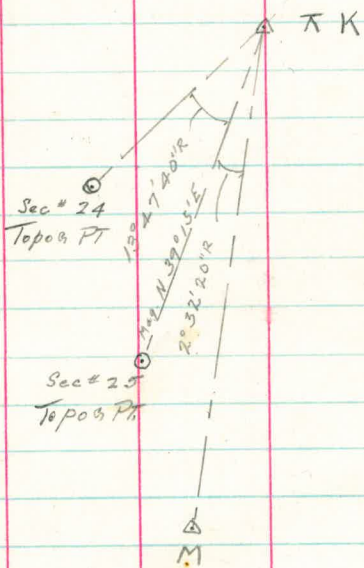
March-30-27

Cool-Cloudy-Rains

Ferguson-Chief
Andrews - π
Heffernan-Rec
Mattoon-chain

31

73



(32)

Secondary Points

H. L. Mag. B. Tro. B. Dist.

○ Sec # 21 $53^{\circ} 59' 20''$
 $26^{\circ} 59' 40'' E$ $5.70^{\circ} 30' W$

△ A K Topog PT

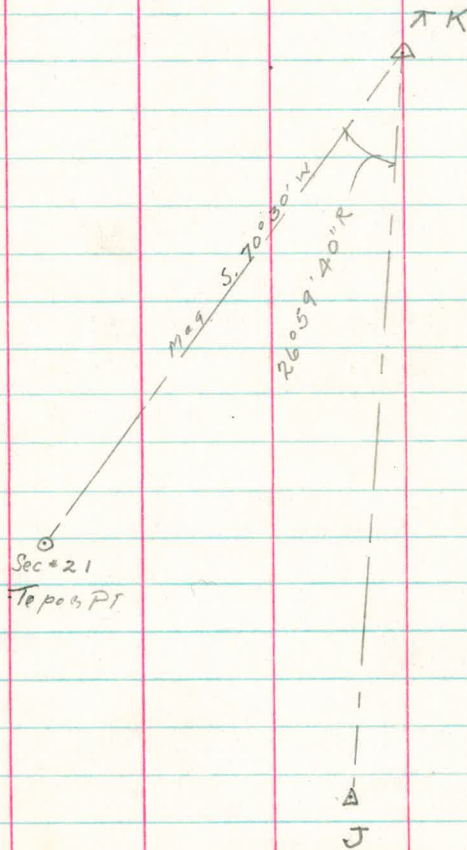
△ J $53^{\circ} 59' 20'' R$
 $26^{\circ} 59' 40'' R$

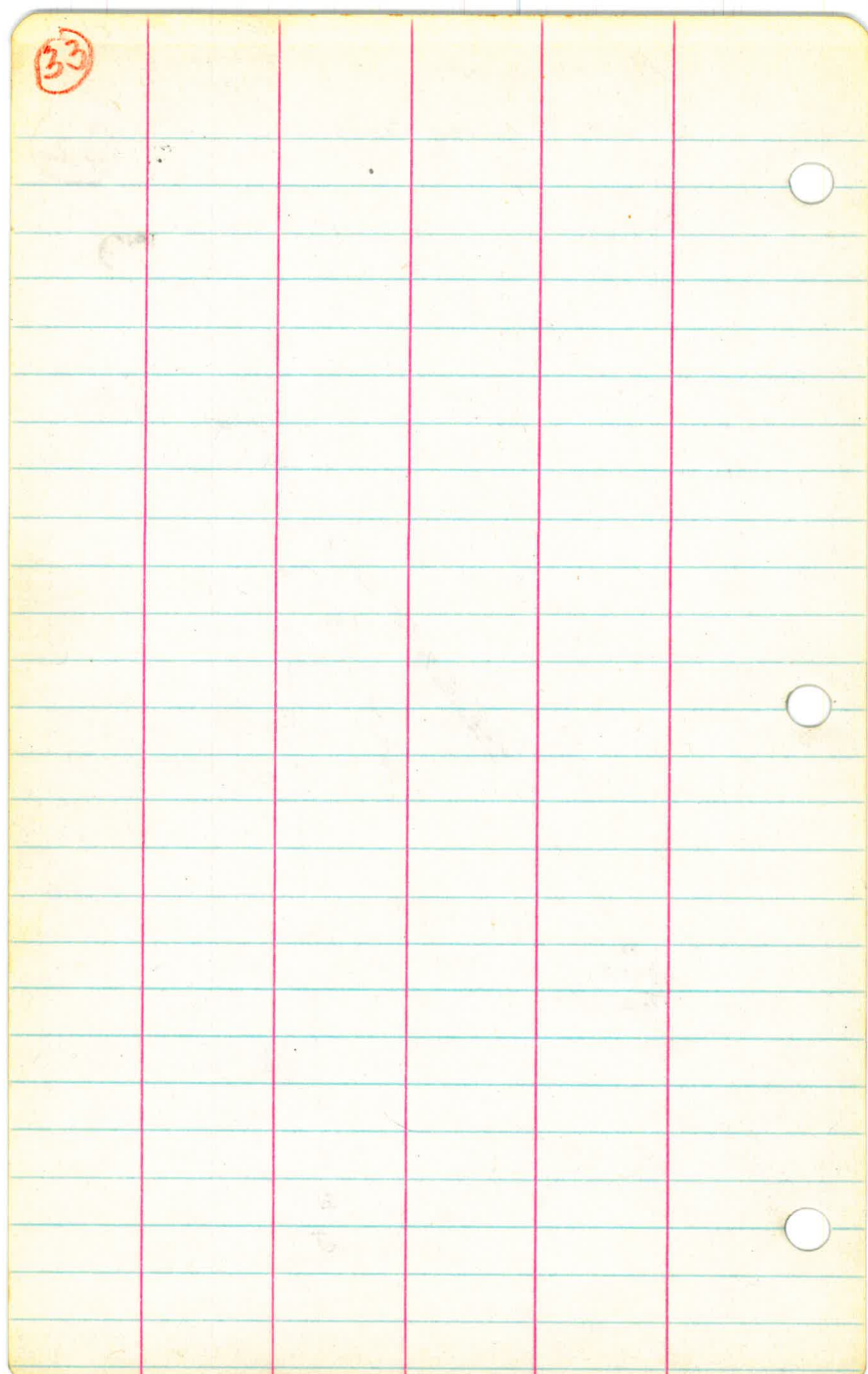
March 30-27

Cool-Cloudy-Rains

Ferguson - Chief
Andrews - K
Hepburn - Roc
Mattoon - Chief

32





33

80

(34)

Secondary points.

H.L

M.A.B.

Sec. 20

N 31° 0' E

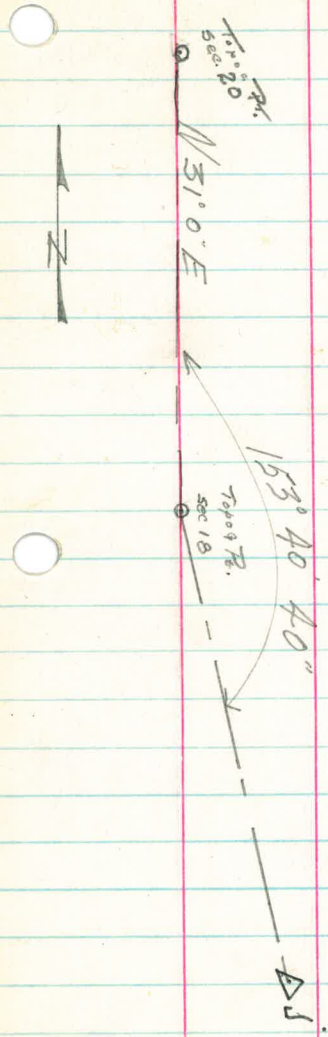
T 18

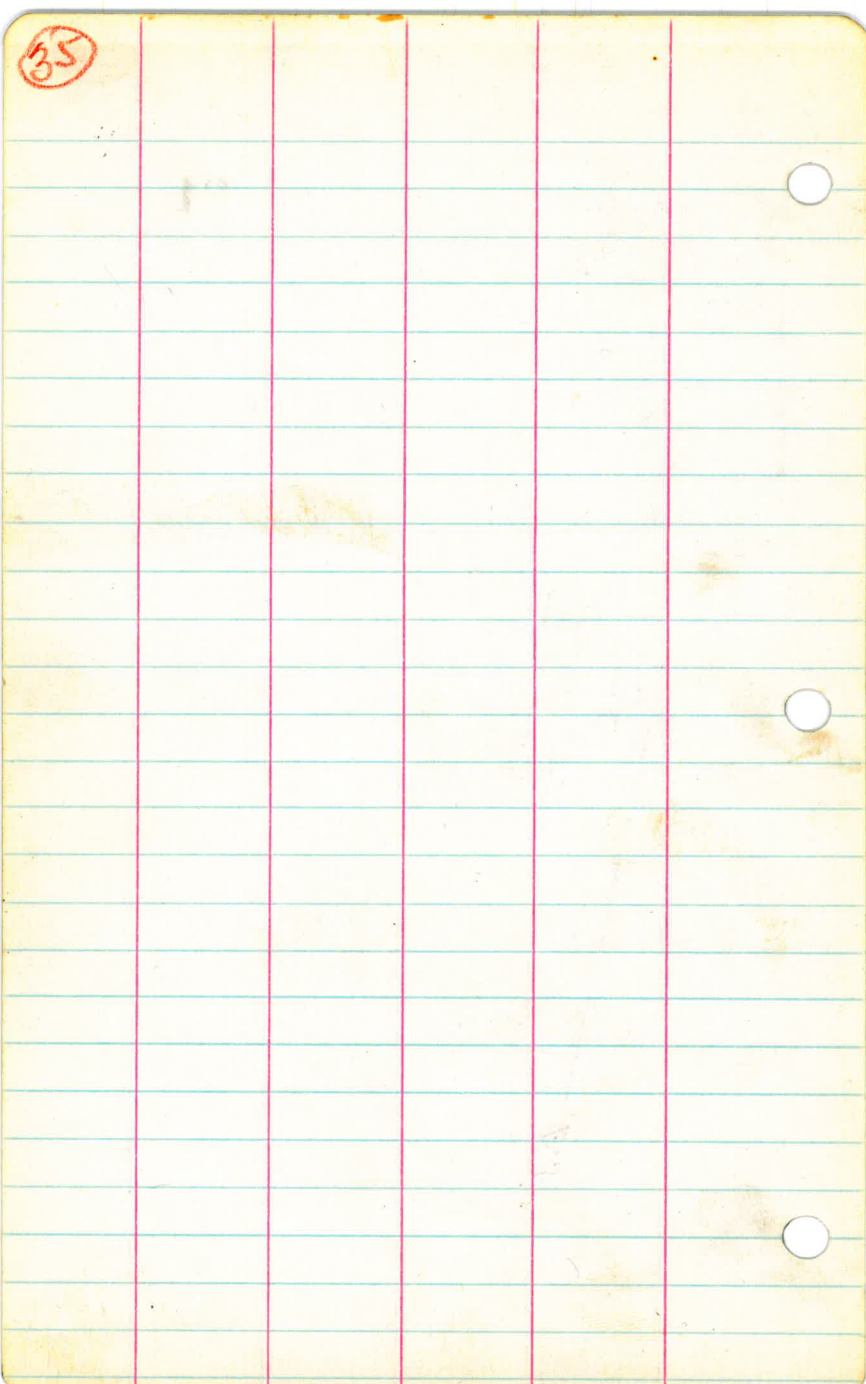
307° 21' 20" L

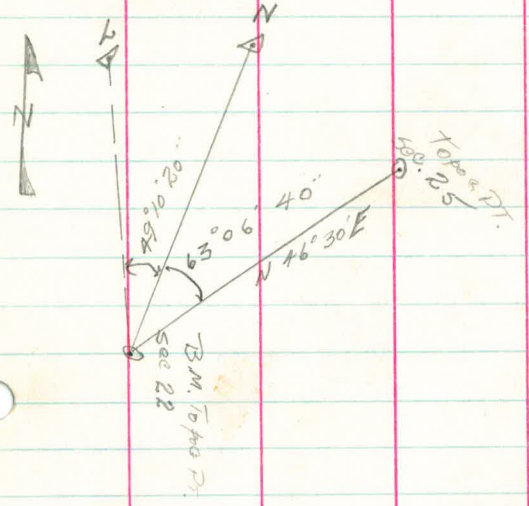
153° 40' 40" L

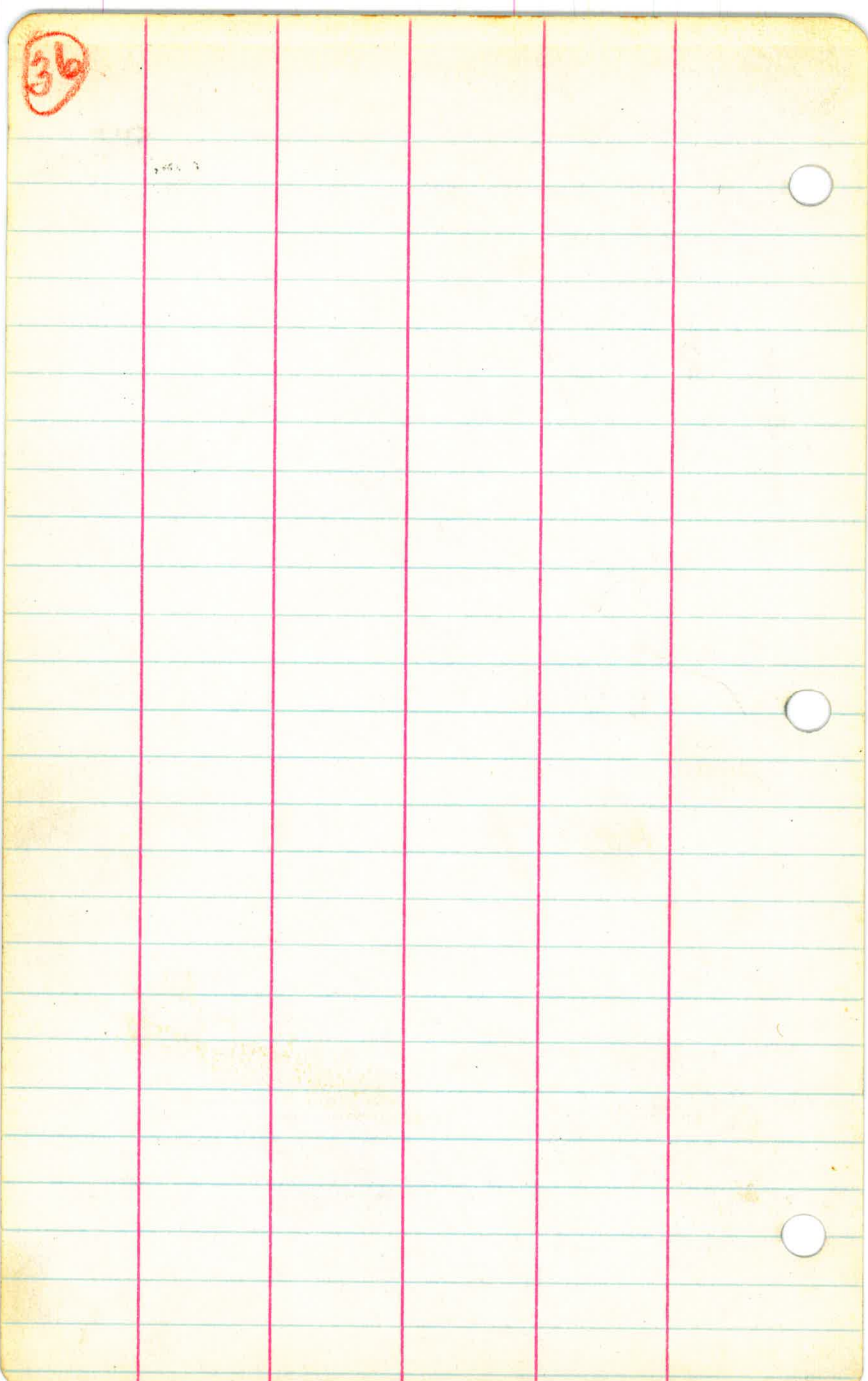
A.J.

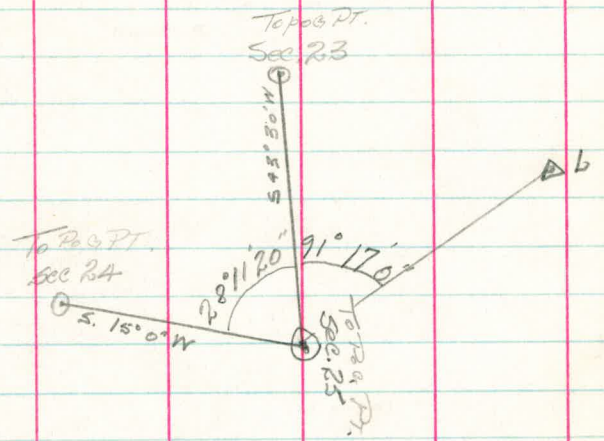
21

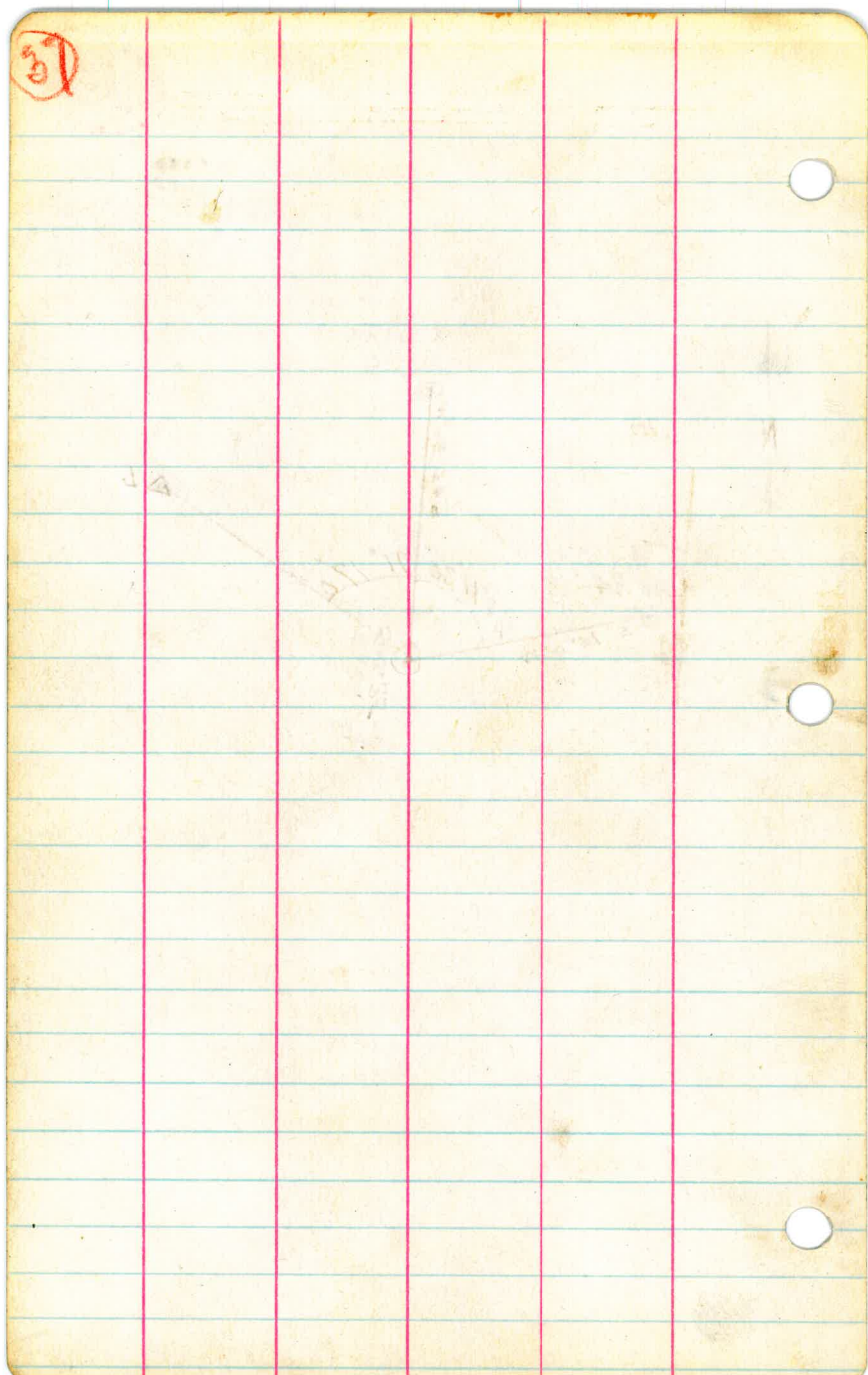












37

81 75 100

7 10 10

84

7 7 7

7 7 7

38

38

35

39

Secondary Points

Sec. Pt.

$\triangle H'$ $53^{\circ}08'0''L$

$\triangle C'$

Sec. Pt.

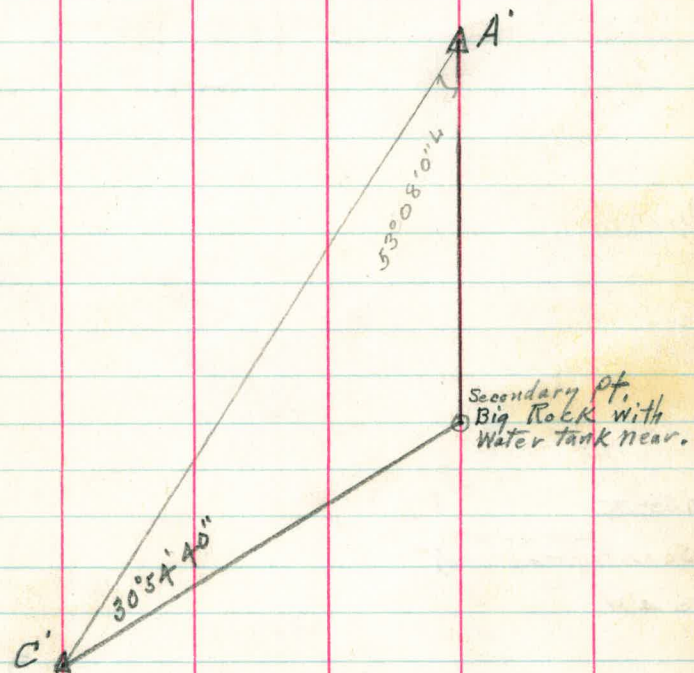
$\triangle C'$ $30^{\circ}54'40''R$

$\triangle H'$

April - 7th 27
Clear - Warm

Ferguson, Cal.
Andrews - T
Heffernan, Rec
M. A. Teen - Chain

86



(40)

Secondary Points

B.M. Sec. 3C

$\begin{matrix} 225^{\circ} 42' 0'' \\ \backslash \\ \text{T Sec. 4 B } 559.65' 20'' \end{matrix} \left. \vphantom{\begin{matrix} 225^{\circ} 42' 0'' \\ \backslash \\ \text{T Sec. 4 B } 559.65' 20'' \end{matrix}} \right\} 4$

Sec. 4 A

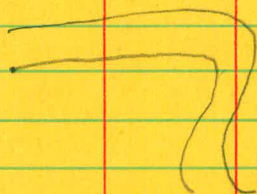
B.M. Sec. 3C

$\begin{matrix} 226^{\circ} 12' 0'' \\ \backslash \\ \text{T Sec. 4 A } 516.33' 0'' \end{matrix} \left. \vphantom{\begin{matrix} 226^{\circ} 12' 0'' \\ \backslash \\ \text{T Sec. 4 A } 516.33' 0'' \end{matrix}} \right\} 4$

Sec. 4 B

40 a

87



40a

Primary "P1"

Sec B.M.3C 132°-49'-42"

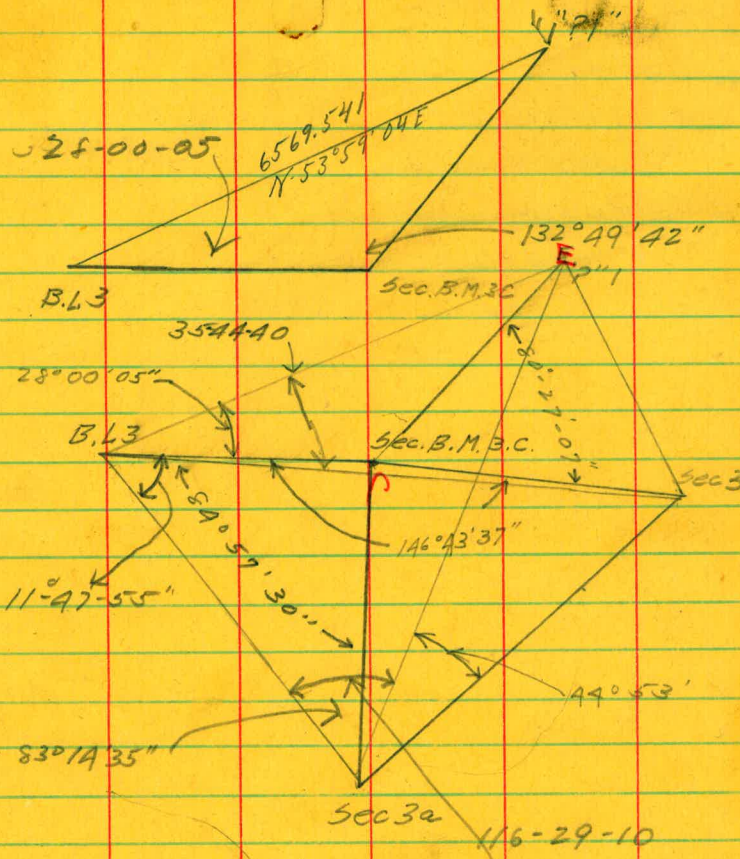
B.L.3

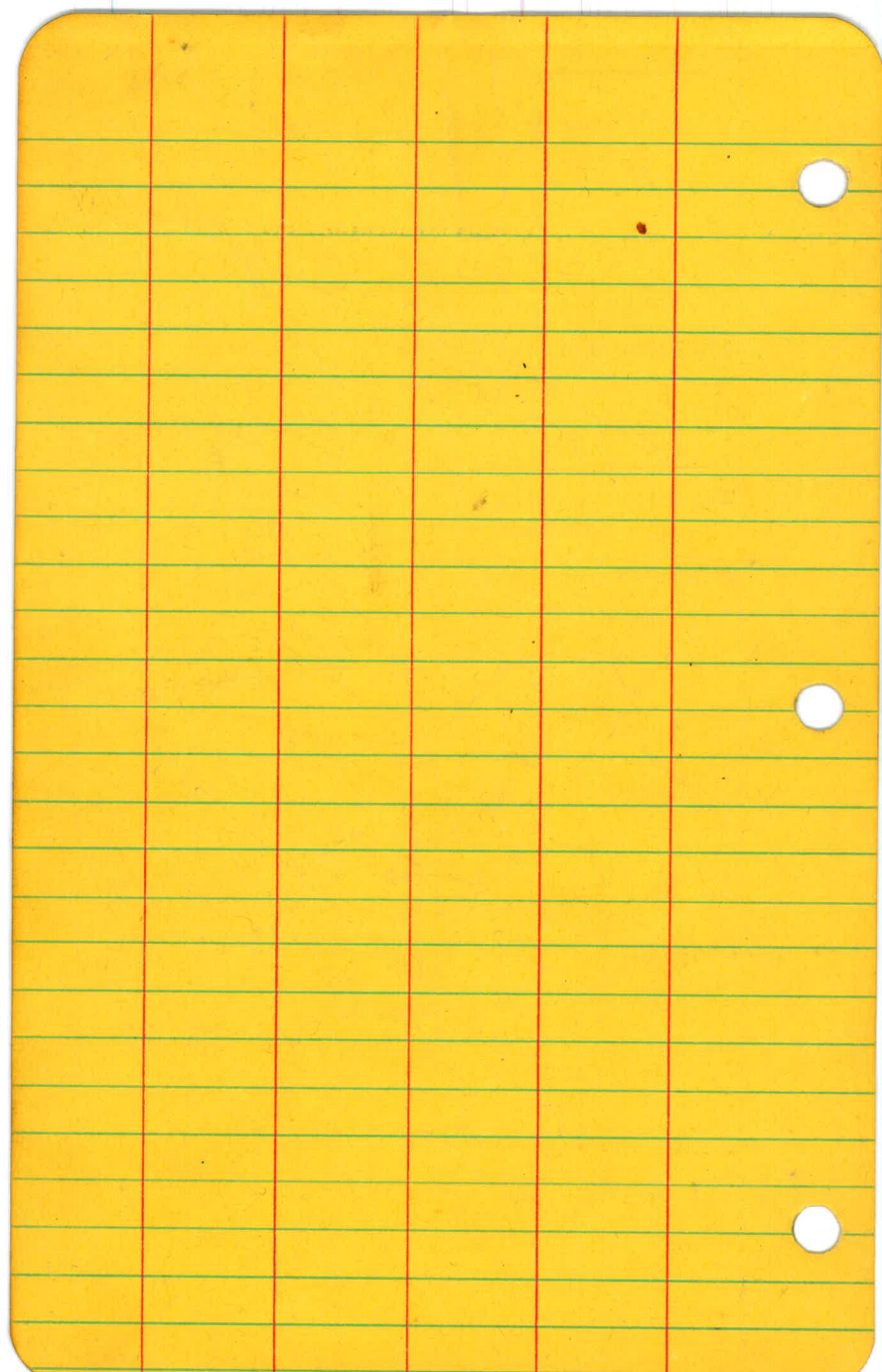
Sec 3c.

(409)

08

Transit at Secondary Point
BM 3-C

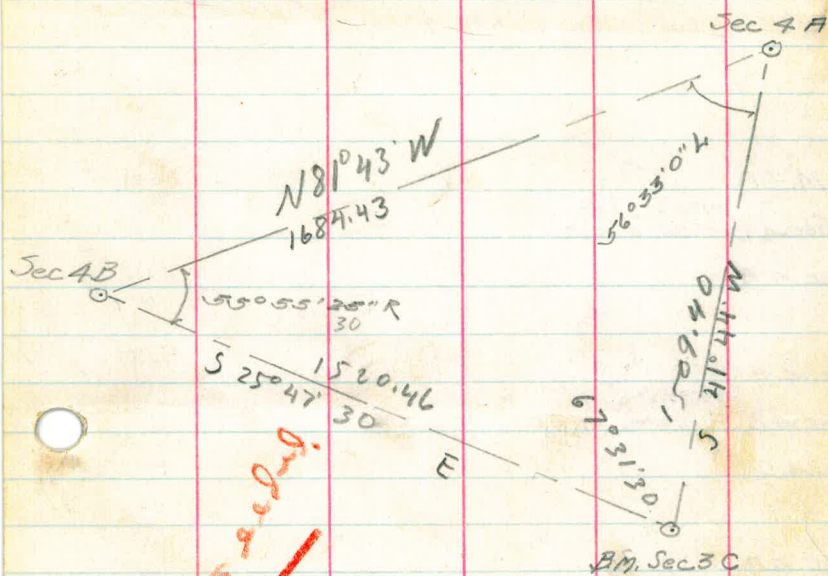




April-22-27
Clear-Warm

Andrews-T
Hefferman-Rec
(40)

89



~~Superseded~~

Plotted

(41)

Secondary Points

B.M. = B

T Sec 4 B $\left. \begin{array}{l} 170^{\circ}52'0''R \\ 80^{\circ}56'0''R \end{array} \right\} 2$

Sec 4 A

Sec 4 A

T Sec 4 B $\left. \begin{array}{l} 65^{\circ}22'0''R \\ 16^{\circ}20'30''R \end{array} \right\} 4$

Sec 4 D

Sec 4 A

T Sec 4 B $\left. \begin{array}{l} 120^{\circ}27'40''R \\ 31^{\circ}07'0''R \end{array} \right\} 4$

Sec 4 C

Sec 4 D

T Sec 4 A $\left. \begin{array}{l} 502^{\circ}56'40''R \\ 151^{\circ}28'20''R \end{array} \right\} 2$

Sec 4 B

Sec 4 C

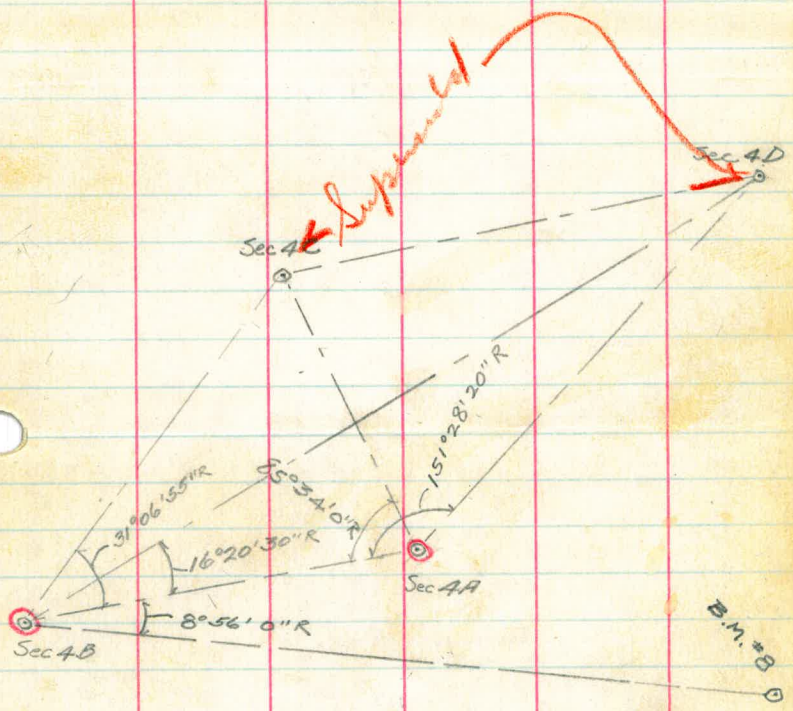
T Sec 4 A $\left. \begin{array}{l} 342^{\circ}16'0''R \\ 85^{\circ}34'0''R \end{array} \right\} 4$

Sec 4 B

Apr. 1 - 27-27
Clear - Warm

Andrews - T
Heffernan - REC

(41)



(42)

Secondary Points

Sec 4B

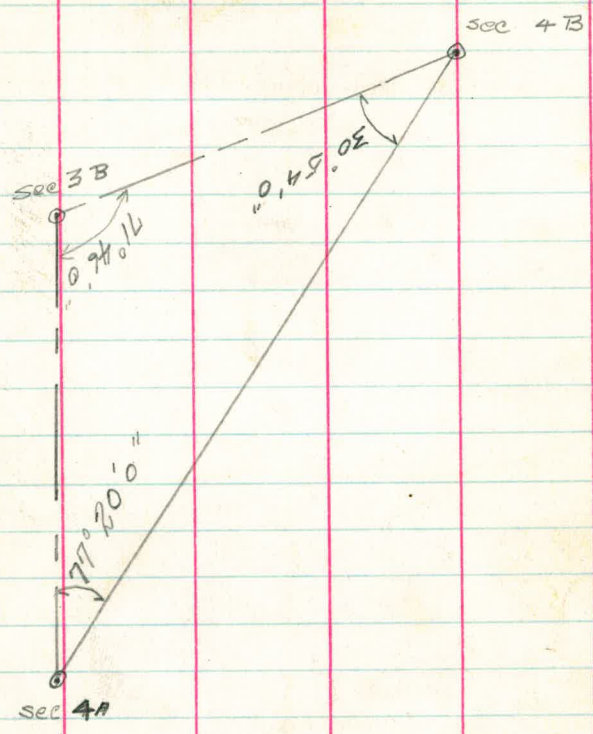
↑ Sec 4A 309° 20' 0" }
R } 4
Sec 3B 77° 20' 0" }

Sec 3B

↑ Sec 4B 123° 36' 0" }
R } 4
Sec 4A 30° 54' 0" }

Andrews T
Hefferman (42)

90



R1.424
J13

(43)

Secondary Points

B.M. * 8

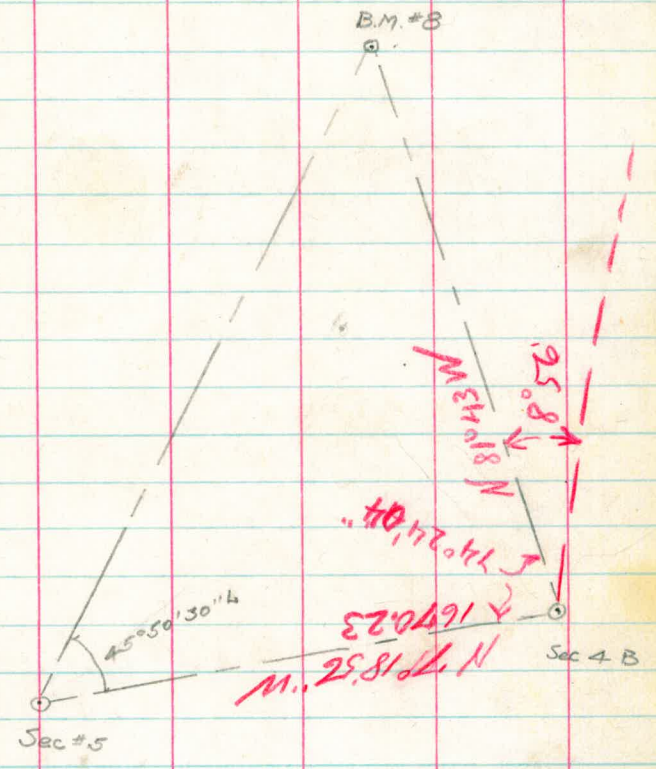
Sec 5 $\left. \begin{array}{l} 91^{\circ} 41' 0'' \text{ N} \\ 45^{\circ} 50' 30'' \text{ W} \end{array} \right\} 2$

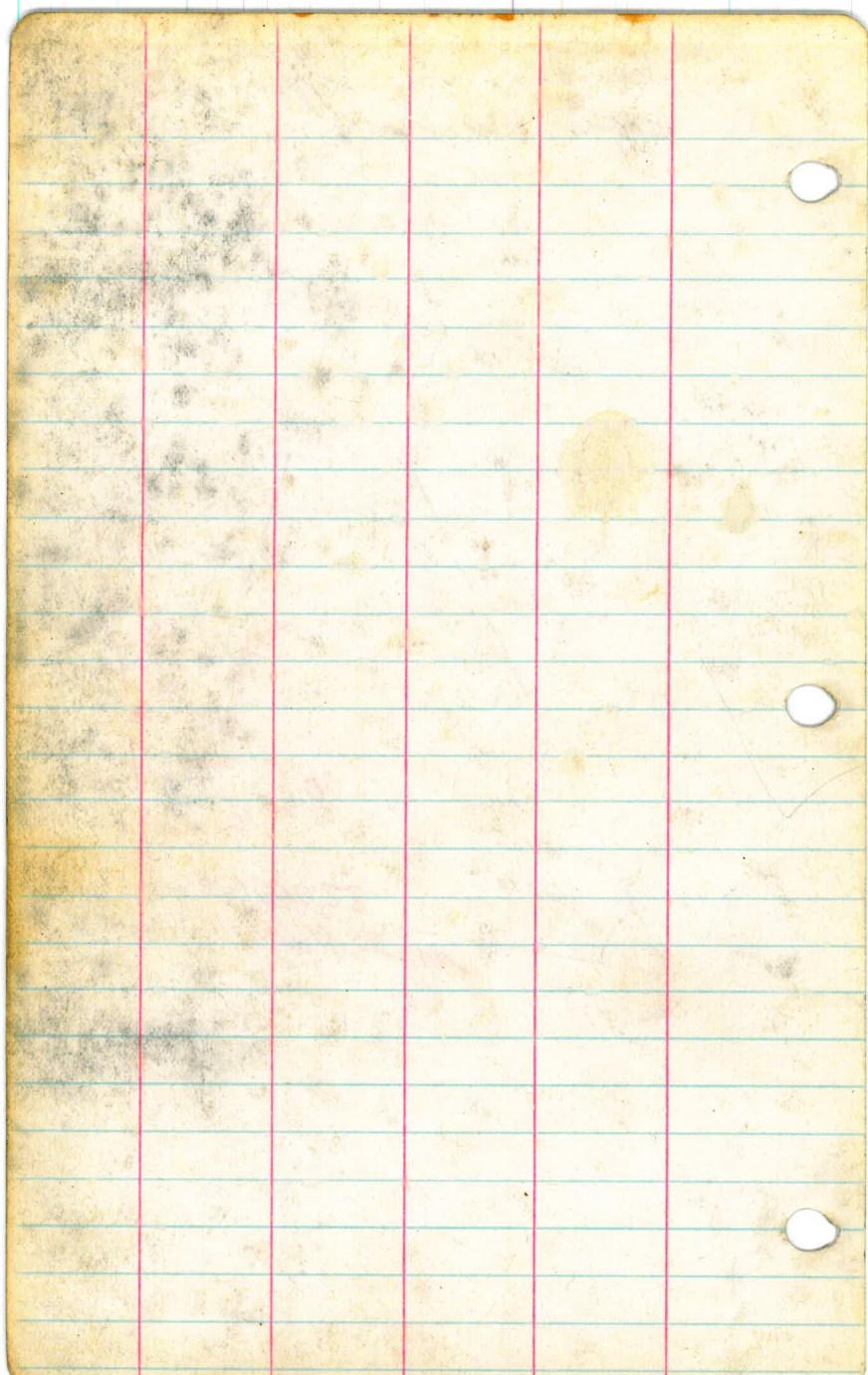
Sec 4 B

April-22-47
Clear Warm

Andrews - A
Hoffernan - Red (43)

91





92

44

Secondary Points

Sec 8A

\nearrow Sec 8 $347^{\circ}36'0''$ R } 4
Sec 7 $86^{\circ}54'0''$

Sec 8

\nearrow Sec 7 $165^{\circ}30'0''$ R } 4
Sec 8A $41^{\circ}22'30''$

Apr 22

Andrew T
Keffernan

44

93

See
8A



0.45.98

41° 22' 30"

See 7

Void

45 Secondary Points

Sec 11A

$\overline{\text{Sec 11}} \ 346^{\circ} 46' 0''$
 $\text{Sec 9} \ 86^{\circ} 41' 30''$ } L 4

Sec 11A

$\overline{\text{Sec 9}} \ 154^{\circ} 33' 0''$
 $\text{Sec 11} \ 38^{\circ} 38' 15''$ } R 4

Sec 10A

$\overline{\text{Sec 11}} \ 179^{\circ} 50' 0''$
 $\text{Sec 9} \ 44^{\circ} 57' 30''$ } L 4

Sec 10A

$\overline{\text{Sec 9}} \ 251^{\circ} 0' 0''$
 $\text{Sec 11} \ 62^{\circ} 45' 0''$ } R 4

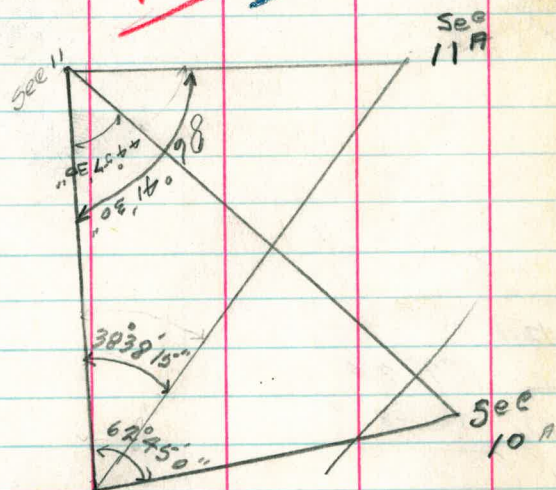
Apr 22

Andrews T
Hester NAN 245

94

11A 2K. 30.

✓ 01 d 10



Sec 9
Plotted 5B

46

Secondary Points

Sec 12A

TAG $187^{\circ}12'0''$

Sec 12 $46^{\circ}48'0''$

Sec 12A

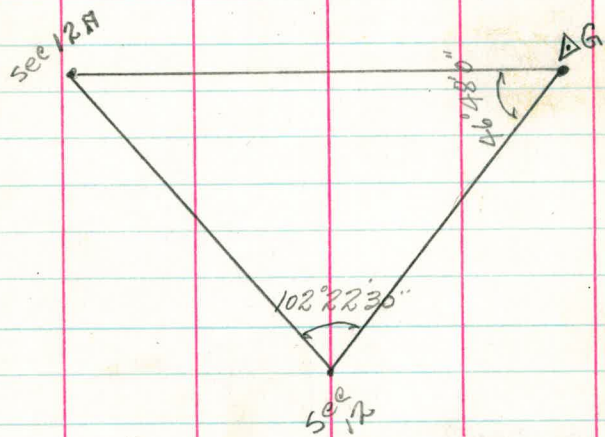
T Sec 12 $204^{\circ}45'0''$ } L 2

ΔG $102^{\circ}22'30''$ }

Apr 22

Andrews T
Hoffmann 46

95



Plot of
J.B.

A7

Secondary Points

Recheck of Angles

H.L. Mag B Tie B. Dist

o Sec A B
T Sec A B $266^{\circ}08'40''R$ } A
 $66^{\circ}32'0''R$ }

o BM # 3C

o BM. Sec 3C
T Sec AB $223^{\circ}43'0''R$ } A
 $55^{\circ}56'0''R$ }

o Sec 4A

Apr. 126, 1927

Clear - Warm

Ferguson - Chief
Andrews - T
Hoffernon - Rec
Mattoon - Chain.

47

96



Sec 4 C

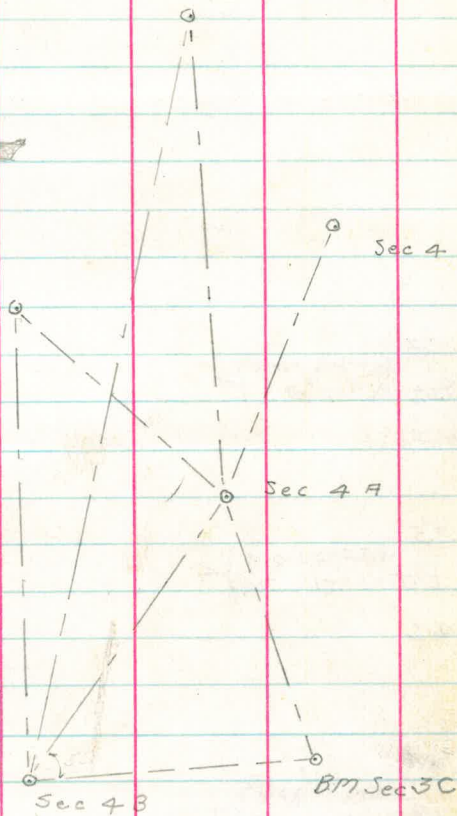
Sec 4 D

Sec 4

Sec 4 A

Sec 4 B

BM Sec 3 C



48

Secondary Points
H.L. Mag. B. Tro. B. Dist.

Δ B.L.#3
T.B.L. Pot. $\left. \begin{array}{l} 345^{\circ}16'30''R \\ 86^{\circ}19'0''R \end{array} \right\} 4$

Sec 4 D

Δ B.L.#3
T.B.L. Pot. $\left. \begin{array}{l} 355^{\circ}26'0''R \\ 88^{\circ}51'15''R \end{array} \right\} 4$

Sec 4 C

Sec. 4. D.
T.B.L.#3 $\left. \begin{array}{l} 269^{\circ}50'0''R \\ 67^{\circ}27'20''R \end{array} \right\} 4$
B.L. Pot.

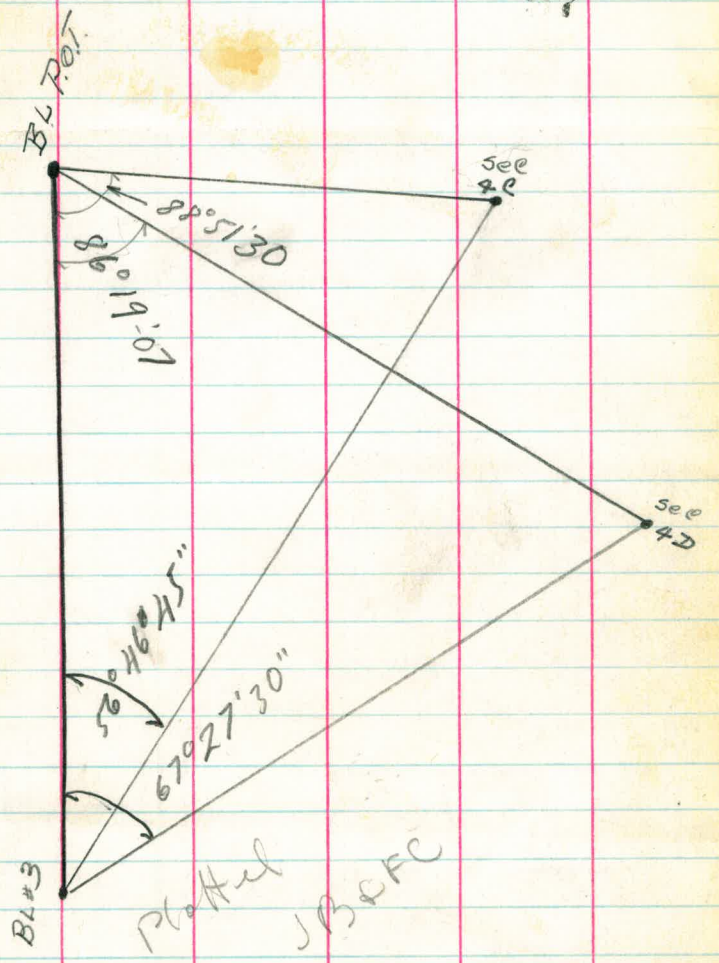
Sec 4 C
T.B.L.#3 $\left. \begin{array}{l} 227^{\circ}07'0'' \\ 56^{\circ}47'0'' \end{array} \right\} 4 R$
B.L. Pot.

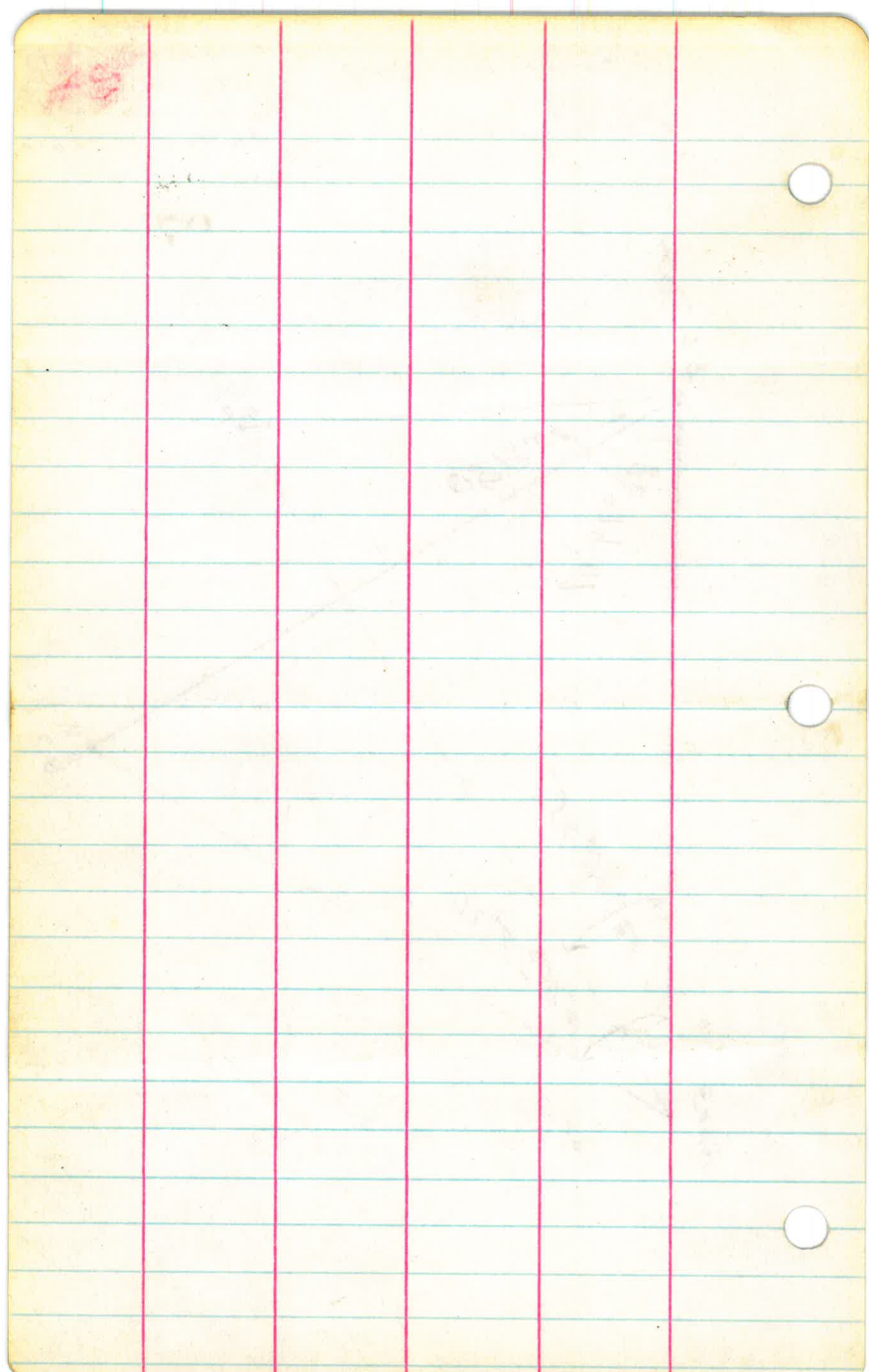
Apr. 1-26, 1927

Clear-Warm

Ferguson - Chief
Andrews - $\frac{1}{2}$
Hoffmann - Rec
Hutton - Chain

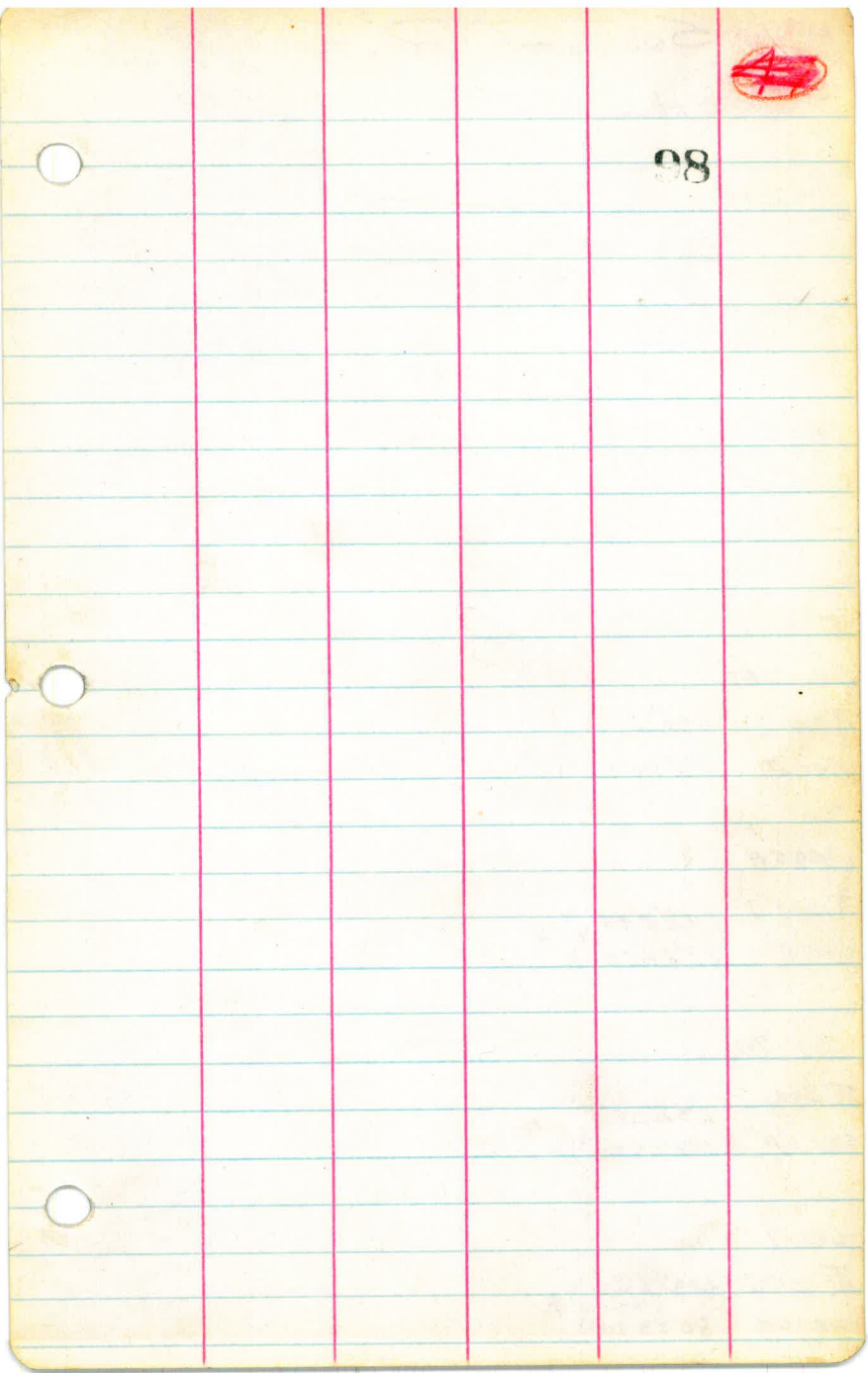
27





~~11~~

88



49 Secondary Points

HL

Sec 7A

T sec 7 408°32'0" }
Sec 5 102°08'0" } 4

Sec 5A

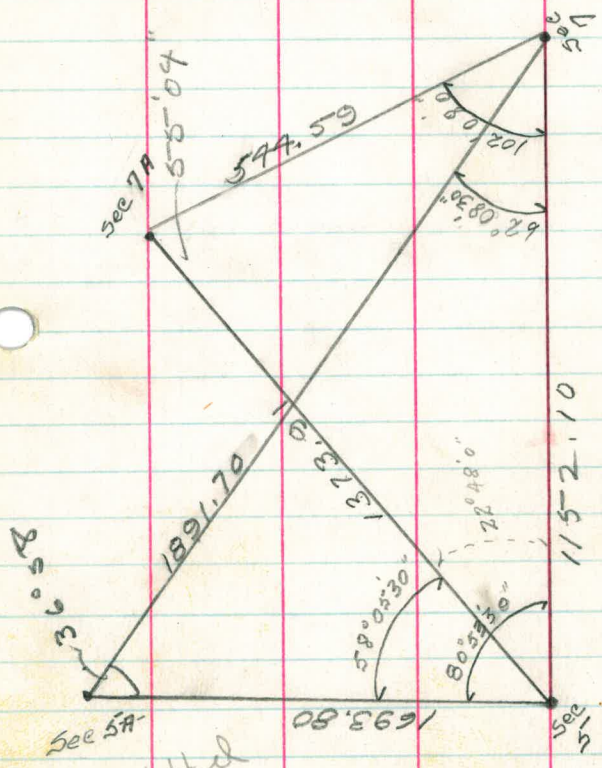
T sec 7 248°34'0" }
Sec 5 62°08'30" } 4

Sec 7A

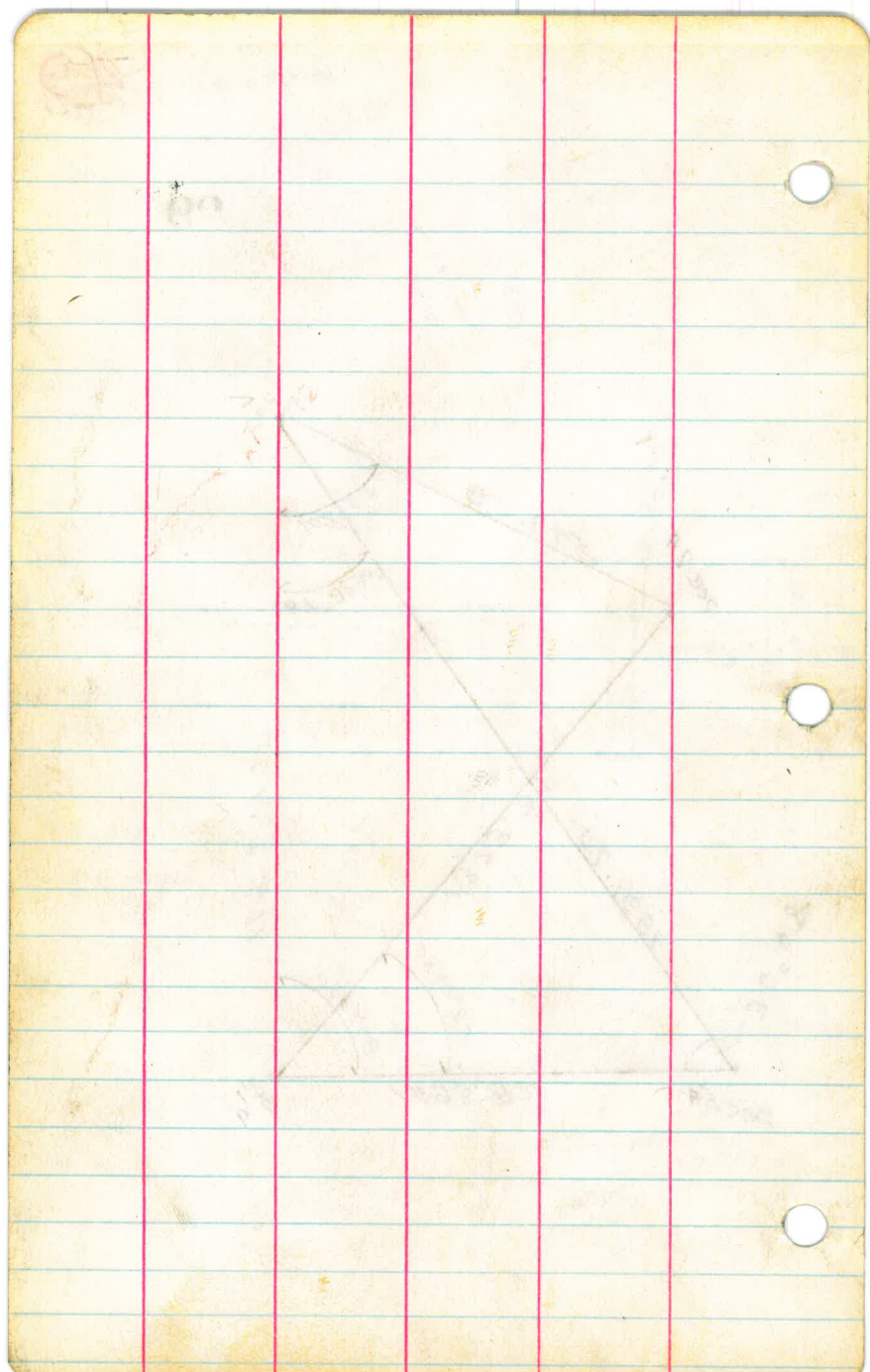
T sec 5 232°22'0" }
Sec 5A 58°05'30" } 4

Sec 7

T sec 5 323°34'0" }
Sec 5A 80°53'30" } 4



Plotted
JB



100

50

Secondary Points
H. L. Mag B. Tru B. Dist

o Sec 8H

$\left. \begin{array}{l} 326^{\circ}38'0''R \\ 81^{\circ}39'20''R \end{array} \right\} 4$

ΔG

o Sec 10H

$\left. \begin{array}{l} 155^{\circ}48'30''R \\ 38^{\circ}57'0''R \end{array} \right\} 4$

ΔG

o Sec 12H

$\left. \begin{array}{l} 83^{\circ}23'0''L \\ 20^{\circ}51'0''L \end{array} \right\} 4$

ΔG

o Sec 12H

$\left. \begin{array}{l} 249^{\circ}12'30''R \\ 62^{\circ}18'0''R \end{array} \right\} 4$

ΔF

o Sec 10H

$\left. \begin{array}{l} 229^{\circ}56'0''L \\ 57^{\circ}29'0''L \end{array} \right\} 4$

ΔF

o Sec 8H

$\left. \begin{array}{l} 57^{\circ}04'30''L \\ 14^{\circ}16'0''L \end{array} \right\} 4$

ΔF

$\left. \begin{array}{l} \Delta F \\ \Delta F \end{array} \right\}$

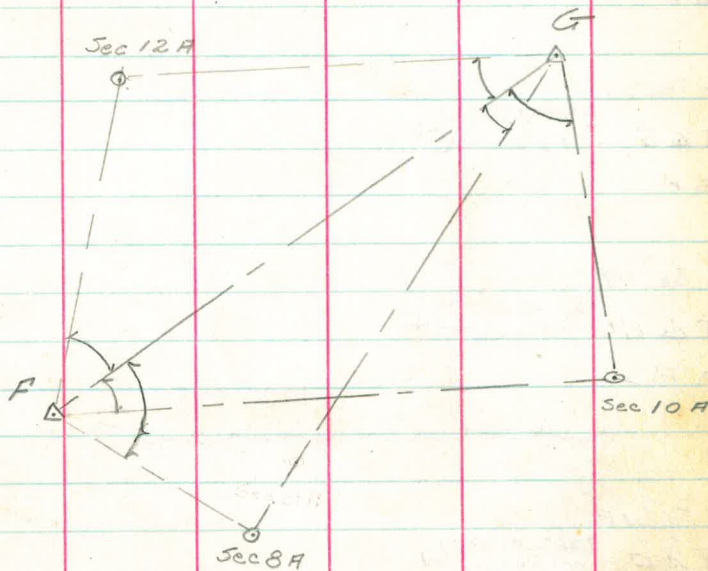
$\left. \begin{array}{l} \Delta G \\ \Delta G \end{array} \right\}$

April 28, 27

Clear - Warm

Ferguson - Chief
Andrews - π 50
Heffernan - Rec
Mattoon - Chair
Young - Chair

101



10A 12A 8A
Plot of JB
JM

51

Secondary Points
H. L. Mag B. Tru B. Disc

o Sec #11A

$\pi \Delta E$

ΔF

o Sec #10

$\pi \Delta E$

ΔF

o Sec #9

$\pi \Delta E$

ΔF

o Sec #11A

$\pi \Delta F$

ΔE

o Sec #10

$\pi \Delta F$

ΔE

ΔE

$\pi \Delta F$

Δ Sec #9

$\left. \begin{array}{l} 139^{\circ} 37' 30'' R \\ 34^{\circ} 54' 30'' R \end{array} \right\} 4$

$\left. \begin{array}{l} 86^{\circ} 18' 30'' R \\ 219^{\circ} 34' 30'' R \end{array} \right\} 4$

$\left. \begin{array}{l} 226^{\circ} 48' 30'' R \\ 56^{\circ} 42' 0'' R \end{array} \right\} 4$

$\left. \begin{array}{l} 171^{\circ} 52' 0'' R \\ 42^{\circ} 58' 0'' R \end{array} \right\} 4$

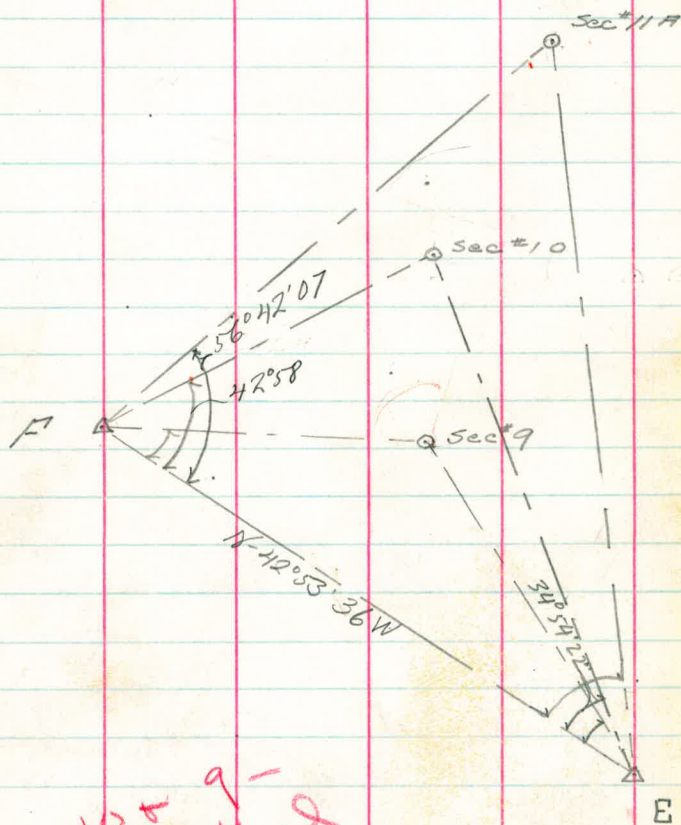
$\left. \begin{array}{l} 83^{\circ} 41' 0'' R \\ 209^{\circ} 55' 10'' R \end{array} \right\} 4$

April 28, 27

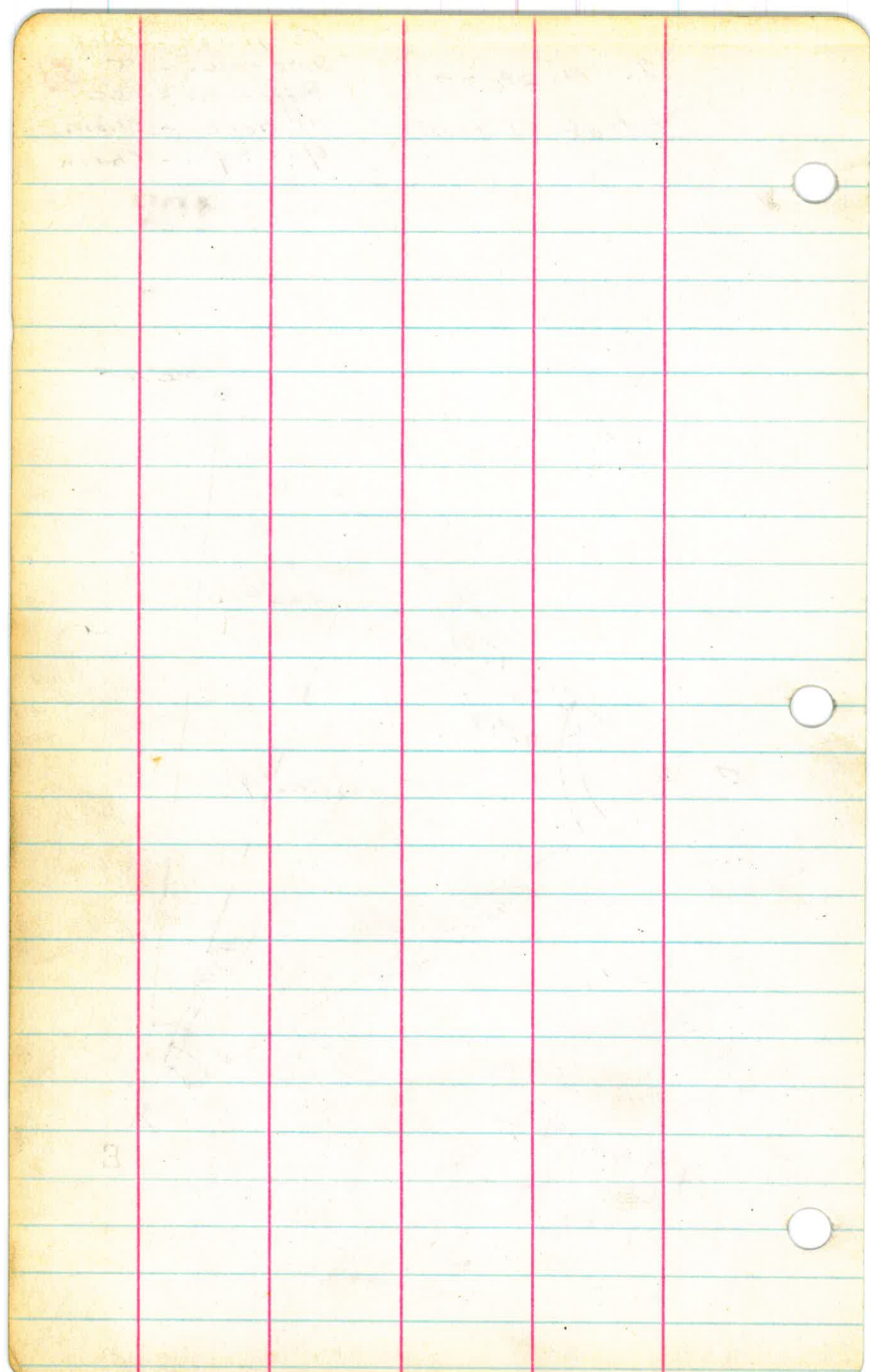
Clear-Warm

Ferguson - Chief
Andrews - T 51
Hefferman - Rec
Mattoon - Chain
Young - Chain

102



10 + 9 -
plotted
JA



Triangulation
on 103

Primary
Points

Ferguson-Chief

Andrews-T

Heffernan-Rec

Mattoon-Chain

35

Primary Points
H.L. Mag B Tru B Dist

Cont Pages -36-37-38-39

Δ BL #3 $\left. \begin{array}{l} 274^{\circ}32'0''L \\ 45^{\circ}45'26''L \end{array} \right\} b$ N. $1^{\circ}13'36''W$

π BL #2
 Δ H $\left. \begin{array}{l} 274^{\circ}32'0''R \\ 45^{\circ}45'26''R \end{array} \right\} b$ N $45^{\circ}31'44''W$

Δ H $\left. \begin{array}{l} 376^{\circ}17'0''L \\ 62^{\circ}42'50''L \end{array} \right\} b$ N $45^{\circ}31'44''W$

π BL #2
 Δ D $\left. \begin{array}{l} 376^{\circ}17'0''R \\ 62^{\circ}42'50''R \end{array} \right\} b$ S $70^{\circ}18'14''W$

Δ D $\left. \begin{array}{l} 235^{\circ}19'0''L \\ 39^{\circ}12'50''L \end{array} \right\} b$ S $70^{\circ}18'14''W$

π BL #2
 Δ D' $\left. \begin{array}{l} 235^{\circ}19'0''R \\ 39^{\circ}12'50''R \end{array} \right\} b$ S $31^{\circ}5'24''W$

Δ D' $\left. \begin{array}{l} 193^{\circ}52'0''L \\ 32^{\circ}19'0''L \end{array} \right\} b$ S $31^{\circ}5'24''W$

π BL #2
 Δ BL #1 $\left. \begin{array}{l} 193^{\circ}52'0''R \\ 32^{\circ}19'0''R \end{array} \right\} b$ S $1^{\circ}13'36''E$

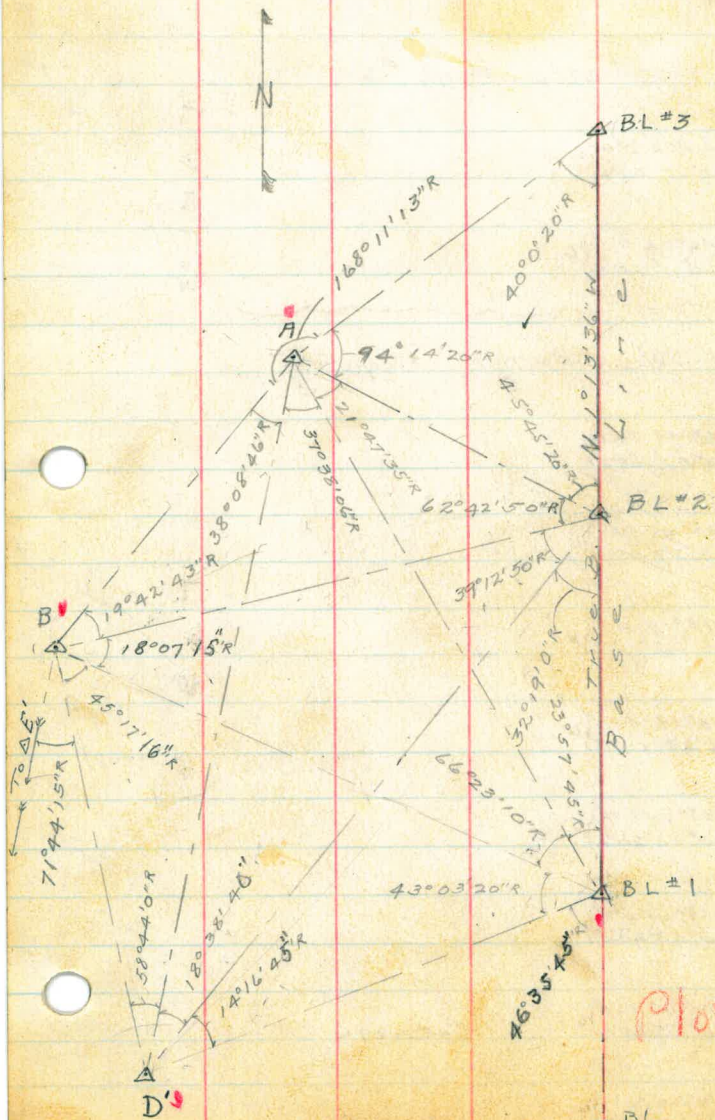
T. A. B. L. #2

April - 5th - 27
Clear - Warm

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Chain

30

104



Plotted

BL
P.O.T.

36

Primary Points

H. L. Mag B Tro B Dist

See Sketch - Page #35

Δ A 240°02'00"R }
40°0'20"W }₆

TBL#3

BL.P.O.T. 240°02'00"R }
40°0'20"W }₆

TABL#3

See Sketch - Page 35

Δ BL#2 143°46'30"R }
23°57'45"W }₆

TBL#1

Δ A 143°46'30"R }
23°57'45"W }₆

TABL#1

Δ A 398°19'00"R }
66°23'10"W }₆

TBL#1

Δ B 398°19'00"R }
66°23'10"W }₆

Δ B 258°20'00"R }
43°03'20"W }₆

TBL#1

Δ D' 258°20'00"R }
43°03'20"W }₆

Δ D' 279°34'30"R }
46°35'45"W }₆

S.45°22'09"W

TBL#1

BL-P.O.T. 279°34'30"R }
46°35'45"W }₆

S.1°13'36"E

April. 6th - 27

Clear - Warm - Light Winds

Ferguson - Chief
Andrews - T
Hoffmann - Rec
Mattoori - Chain

(36)

105

Sketch - Page 35

(37)

Primary Points
H < Mag B Tru B Dist

See Sketch - Page 35

ΔB $\left. \begin{array}{l} 267^{\circ}01'20''L \\ 38^{\circ}08'40''L \end{array} \right\} 7$

$\nabla \Delta H$

$\Delta D'$ $\left. \begin{array}{l} 267^{\circ}01'20''R \\ 38^{\circ}08'40''R \end{array} \right\} 7$

$\Delta D'$ $\left. \begin{array}{l} 263^{\circ}26'40''L \\ 37^{\circ}38'0''L \end{array} \right\} 7$

$\nabla \Delta H$

$\Delta BL \#1$ $\left. \begin{array}{l} 263^{\circ}26'40''R \\ 37^{\circ}38'0''R \end{array} \right\} 7$

$\Delta BL \#1$ $\left. \begin{array}{l} 130^{\circ}27'0''L \\ 21^{\circ}48'0''L \end{array} \right\} 6$

$\nabla \Delta H$

$\Delta BL \#2$ $\left. \begin{array}{l} 130^{\circ}27'0''R \\ 21^{\circ}48'0''R \end{array} \right\} 6$

$\Delta BL \#2$ $\left. \begin{array}{l} 376^{\circ}57'20''L \\ 94^{\circ}12'20''L \end{array} \right\} 4$

$\nabla \Delta H$

$\Delta BL \#3$ $\left. \begin{array}{l} 376^{\circ}57'20''R \\ 94^{\circ}12'20''R \end{array} \right\} 4$

$\nabla \Delta H$

April 6th - 27

Clear - Warm - Light Winds

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Chain

(37)

106

Sketch - Page 35

(38)

Primary-Points
H.L. May B. Tru B. Dist

See Sketch - Page 35

$\Delta E'$ $\left. \begin{array}{l} 286^{\circ}57'0''L \\ 71^{\circ}44'0''H \end{array} \right\} 4$

$\pi \Delta B$

$\Delta D'$ $\left. \begin{array}{l} 286^{\circ}57'0''R \\ 71^{\circ}44'0''R \end{array} \right\} 4$

$\Delta D'$ $\left. \begin{array}{l} 271^{\circ}43'40''L \\ 45^{\circ}17'10''R \end{array} \right\} 6$

$\pi \Delta B$

$\Delta B.L. \# 1$ $\left. \begin{array}{l} 271^{\circ}43'40''R \\ 45^{\circ}17'10''R \end{array} \right\} 6$

$\Delta B.L. \# 1$ $\left. \begin{array}{l} 108^{\circ}45'0''L \\ 18^{\circ}07'30''L \end{array} \right\} 6$

$\pi \Delta B$

$\Delta B.L. \# 2$ $\left. \begin{array}{l} 108^{\circ}45'0''R \\ 18^{\circ}07'30''R \end{array} \right\} 6$

$\Delta B.L. \# 2$ $\left. \begin{array}{l} 118^{\circ}16'0''L \\ 19^{\circ}42'40''L \end{array} \right\} 6$

$\pi \Delta B$

ΔA $\left. \begin{array}{l} 118^{\circ}16'0''R \\ 19^{\circ}42'40''R \end{array} \right\} 6$

π
 Δ
 B

April - 6th - 27
Clear - Warm - Winds

Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chair

38

107

Sketch - Page 35

39

Primary Points

H. L. Mag. B. Tru. B. Dist

See Sketch - Page 35

$\Delta B.L. \#1$ $\left. \begin{array}{l} 114^{\circ}13'20''L \\ 14^{\circ}16'40''L \end{array} \right\} 8$

$\triangle AD'$

$\Delta B.L. \#2$ $\left. \begin{array}{l} 114^{\circ}13'20''R \\ 14^{\circ}16'40''R \end{array} \right\} 8$

$\Delta B.L. \#2$ $\left. \begin{array}{l} 149^{\circ}10'0''L \\ 18^{\circ}38'40''L \end{array} \right\} 8$

$\triangle AD'$

ΔH $\left. \begin{array}{l} 149^{\circ}10'0''R \\ 18^{\circ}38'40''R \end{array} \right\} 8$

ΔH $\left. \begin{array}{l} 352^{\circ}24'0''L \\ 58^{\circ}44'0''L \end{array} \right\} 6$

$\triangle AD'$

ΔB $\left. \begin{array}{l} 352^{\circ}24'0''R \\ 58^{\circ}44'0''R \end{array} \right\} 6$

$\triangle AD'$



Apr. 1-62-27
Clear-Warm

Ferguson - Chief
Andrews - " "
Heffernon - Rec
Mattoon - Chair

39

108

Sketch - Page 35

40

Primary Points

H. L. Mag B Tru B Dist

$\Delta BL \#1$ $\left. \begin{array}{l} 186^{\circ}06'20''L \\ 31001'0''L \end{array} \right\} b$

πAC

$\Delta D'$ $\left. \begin{array}{l} 186^{\circ}06'20''R \\ 31001'0''R \end{array} \right\} b$

$\Delta D'$ $\left. \begin{array}{l} 337^{\circ}21'40''L \\ 56^{\circ}13'30''L \end{array} \right\} b$

πAC

$\Delta C'$ $\left. \begin{array}{l} 337^{\circ}21'40''R \\ 56^{\circ}15'30''R \end{array} \right\} b$

$\Delta D'$ $\left. \begin{array}{l} 363^{\circ}53'30''L \\ 60^{\circ}38'40''L \end{array} \right\} b$

$\pi BL \#1$

$\Delta C'$ $\left. \begin{array}{l} 363^{\circ}53'30''R \\ 60^{\circ}38'40''R \end{array} \right\} b$

$\Delta C'$ $\left. \begin{array}{l} 385^{\circ}09'40''L \\ 64^{\circ}11'40''L \end{array} \right\} b$

$\pi BL \#1$

ΔC $\left. \begin{array}{l} 385^{\circ}09'40''R \\ 64^{\circ}11'40''R \end{array} \right\} b$

$\Delta C'$ $\left. \begin{array}{l} 350^{\circ}52'0''L \\ 58^{\circ}28'40''L \end{array} \right\} b$

$\pi \Delta D'$

ΔC $\left. \begin{array}{l} 350^{\circ}52'0''R \\ 58^{\circ}28'40''R \end{array} \right\} b$

ΔC $\left. \begin{array}{l} 230^{\circ}31'0''L \\ 38^{\circ}25'20''L \end{array} \right\} b$

$\pi \Delta D'$

$\Delta BL \#2$ $\left. \begin{array}{l} 230^{\circ}31'0''R \\ 38^{\circ}25'20''R \end{array} \right\} b$

πAC

$\pi AB \#1$

$\pi \Delta D'$

April 6th - 27

Clear - Warm

April 9th - 27

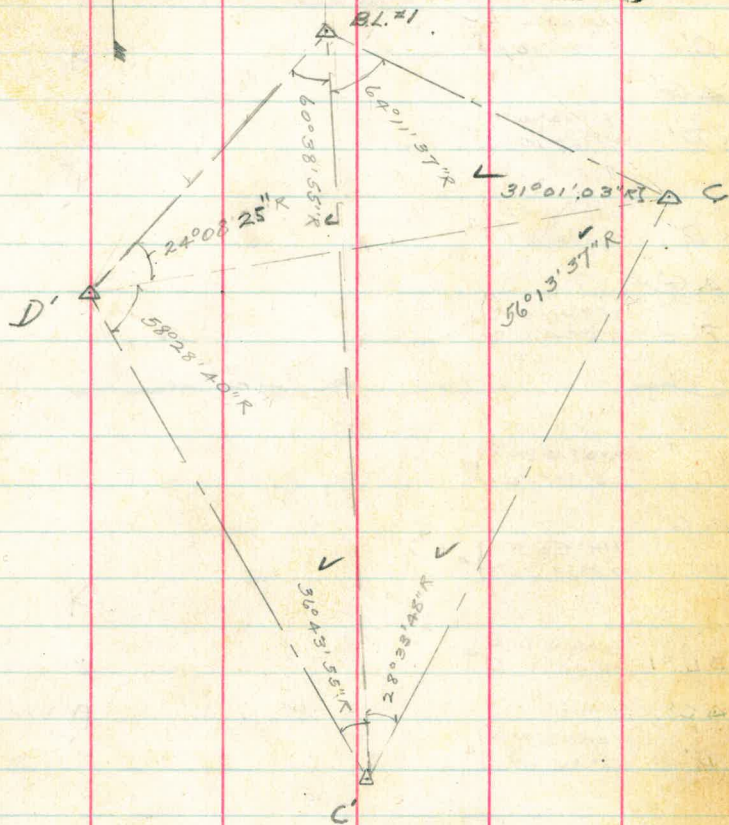
Cool - Cloudy - Heavy Winds

π Δ C

Verguson - Chief
Andrews - π
Heffernan - Rec
Mattoon - Chain

40

109



π C' See Notes Page 41

Plotted

(A1)

Primary Points

H L Mag B. Tru B. Dist

Cont Page 42

$\Delta C'$ $\left. \begin{array}{l} 188^{\circ}43'0''H \\ 31^{\circ}27'10''H \end{array} \right\} 6$

$\pi \Delta G'$

$\Delta D'$ $\left. \begin{array}{l} 188^{\circ}43'0''R \\ 31^{\circ}27'10''R \end{array} \right\} 6$

$\Delta D'$ $\left. \begin{array}{l} 288^{\circ}16'0''H \\ 72^{\circ}04'0''H \end{array} \right\} 4$

$\pi \Delta G'$

$\Delta F'$ $\left. \begin{array}{l} 288^{\circ}16'0''R \\ 72^{\circ}04'0''R \end{array} \right\} 4$

ΔC $\left. \begin{array}{l} 114^{\circ}15'10''H \\ 28^{\circ}33'50''H \end{array} \right\} 4$

$\pi \Delta C'$

$\Delta B.L. \#1$ $\left. \begin{array}{l} 114^{\circ}15'10''R \\ 28^{\circ}33'50''R \end{array} \right\} 4$

$\Delta B.L. \#1$ $\left. \begin{array}{l} 146^{\circ}56'0''H \\ 36^{\circ}22'0''H \end{array} \right\} 4$

$\pi \Delta C'$

$\Delta D'$ $\left. \begin{array}{l} 146^{\circ}56'0''R \\ 36^{\circ}22'0''R \end{array} \right\} 4$

$\Delta D'$ $\left. \begin{array}{l} 261^{\circ}45'20''H \\ 65^{\circ}26'20''H \end{array} \right\} 4$

$\pi \Delta C'$

$\Delta F'$ $\left. \begin{array}{l} 261^{\circ}45'20''R \\ 65^{\circ}26'20''R \end{array} \right\} 4$

$\Delta F'$ $\left. \begin{array}{l} 160^{\circ}46'10''H \\ 26^{\circ}47'40''H \end{array} \right\} 6$

$\pi \Delta C'$

$\Delta G'$ $\left. \begin{array}{l} 160^{\circ}46'10''R \\ 26^{\circ}47'40''R \end{array} \right\} 6$

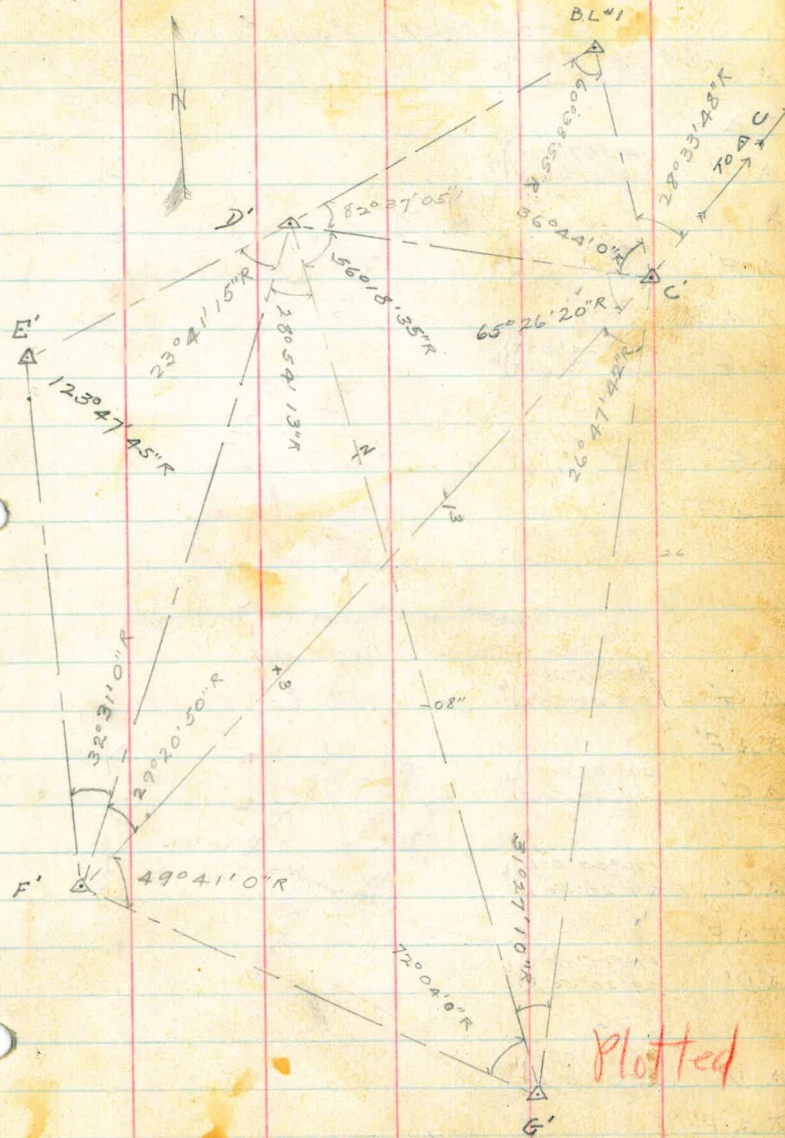
Y
Δ
G'

Y
Δ
C'

April 7th 27
Clear - Warm

Ferguson - Chief
Andrews - T
Heffernan - Rec
110
Moon - Chain

(41)



42

Primary Points

H. L. Mag B Tru. B. Dist

See Sketch - Page 41

$\Delta B'$ $\left. \begin{array}{l} 142^{\circ}07'30''L \\ 23^{\circ}41'20''L \end{array} \right\} b$

$\pi \Delta D'$

$\Delta F'$ $\left. \begin{array}{l} 142^{\circ}07'30''R \\ 23^{\circ}41'20''R \end{array} \right\} b$

$\Delta F'$ $\left. \begin{array}{l} 173^{\circ}24'0''L \\ 28^{\circ}54'0''L \end{array} \right\} b$

$\pi \Delta D'$

$\Delta G'$ $\left. \begin{array}{l} 173^{\circ}24'0''R \\ 28^{\circ}54'0''R \end{array} \right\} b$

$\Delta G'$ $\left. \begin{array}{l} 337^{\circ}50'40''L \\ 56^{\circ}18'20''L \end{array} \right\} b$

$\pi \Delta D'$

$\Delta C'$ $\left. \begin{array}{l} 337^{\circ}50'40''R \\ 56^{\circ}18'20''R \end{array} \right\} b$

Recheck Page 41 of Notes
on recheck
56°18'35"

$\pi \Delta D'$

See Sketch - Page 41

$\Delta G'$ $\left. \begin{array}{l} 298^{\circ}05'30''L \\ 49^{\circ}40'50''L \end{array} \right\} b$

$\pi \Delta F'$

$\Delta C'$ $\left. \begin{array}{l} 298^{\circ}05'30''R \\ 49^{\circ}40'50''R \end{array} \right\} b$

$\Delta C'$ $\left. \begin{array}{l} 176^{\circ}05'0''L \\ 29^{\circ}20'50''L \end{array} \right\} b$

$\pi \Delta F'$

$\Delta D'$ $\left. \begin{array}{l} 176^{\circ}05'0''R \\ 29^{\circ}20'50''R \end{array} \right\} b$

$\Delta D'$ $\left. \begin{array}{l} 195^{\circ}06'0''L \\ 32^{\circ}31'0''L \end{array} \right\} b$

$\pi \Delta F'$

$\Delta E'$ $\left. \begin{array}{l} 195^{\circ}06'0''R \\ 32^{\circ}31'0''R \end{array} \right\} b$

Recheck Page 48 of Notes

$\pi \Delta F'$

April - 8th - 27
Clear - Warm
light winds

Ferguson - Chief
Andrews - T
Heffernan - Rec
Mattoon - Cham

42

111

Sketch - Page 41

43

Primary Points
H. L. Mag B. Tru B. Dist

See Sketch - Page 41

$\Delta F'$ $\left. \begin{array}{l} 371^{\circ} 23' 15'' L \\ 123^{\circ} 47' 45'' L \end{array} \right\} 3$

$\Delta E'$

$\Delta D'$ $\left. \begin{array}{l} 371^{\circ} 23' 15'' R \\ 123^{\circ} 47' 45'' R \end{array} \right\} 3$

$\Delta E'$

April - 9th - 27

Clear - Cool -

Windy

Ferguson - Chief

Andrews - T

Heffernan - Rec

Mattoon - Chain

43

112

Sketch - Page 41

44

Primary Points

H.L. Mag B Tru B. Dist

Cont Page 45

ΔC

$\pi \Delta A'$ Not Visible from A'

$\Delta C'$

$\Delta C'$ $\left. \begin{array}{l} 422^{\circ}45'0''L \\ 70^{\circ}27'20''L \end{array} \right\} 6$

$\pi \Delta A'$

$\Delta B'$ $\left. \begin{array}{l} 422^{\circ}45'0''R \\ 70^{\circ}27'20''R \end{array} \right\} 6$

$\Delta A'$ $\left. \begin{array}{l} 138^{\circ}38'40''L \\ 27^{\circ}43'40''L \end{array} \right\} 5$

$\pi \Delta B'$

ΔC $\left. \begin{array}{l} 138^{\circ}38'40''R \\ 27^{\circ}43'40''R \end{array} \right\} 5$

ΔC $\left. \begin{array}{l} 231^{\circ}54'0''L \\ 57^{\circ}58'40''L \end{array} \right\} 4$

$\pi \Delta B'$

$\Delta C'$ $\left. \begin{array}{l} 231^{\circ}54'0''R \\ 57^{\circ}58'40''R \end{array} \right\} 4$

$\Delta B'$ $\left. \begin{array}{l} 143^{\circ}01'0''L \\ 23^{\circ}50'10''L \end{array} \right\} 6$

$\pi \Delta C'$

$\Delta A'$ $\left. \begin{array}{l} 143^{\circ}01'0''R \\ 23^{\circ}50'10''R \end{array} \right\} 6$

$\Delta A'$ $\left. \begin{array}{l} 325^{\circ}29'0''L \\ 54^{\circ}14'50''L \end{array} \right\} 6$

$\pi \Delta C'$

ΔC $\left. \begin{array}{l} 325^{\circ}29'0''R \\ 54^{\circ}14'50''R \end{array} \right\} 6$

$\pi \Delta A'$

$\pi \Delta B'$

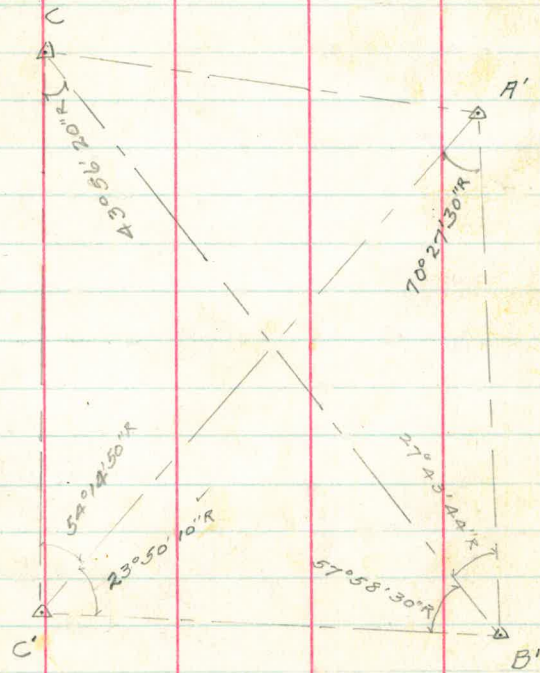
$\pi \Delta C'$

April - 7th - 27
Clear - Warm

Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chain

113

44



45

Primary Points

H.L. Mag. B. Tru. B. Dist.

See Sketch - Page 44

$\Delta C'$

$263^{\circ}38'0''$
 $43^{\circ}56'20''$

$\nabla \Delta C$

$\Delta B'$

$263^{\circ}38'0''$
 $43^{\circ}56'20''$

$\Delta B'$

$\nabla \Delta C$

Not Visible from ΔC .

$\Delta H'$

$\nabla \Delta C$

April - 9th 27
Cool-Cloudy-
Heavy Wind

Ferguson - Chief
Andrews - T
Hefferman - Re
Batloon - Chem

45

114

Sketch - Page 44

26

Primary Points

H.L. Mag. B Trv B Dist.

Cont Page 47

$\Delta I'$ $\left. \begin{matrix} 131^{\circ}24'0''L \\ 21^{\circ}54'0''R \end{matrix} \right\} b$

$\pi \Delta H'$

$\Delta G'$ $\left. \begin{matrix} 131^{\circ}24'0''R \\ 21^{\circ}54'0''R \end{matrix} \right\} b$

$\Delta G'$ $\left. \begin{matrix} 298^{\circ}37'0''L \\ 49^{\circ}46'0''R \end{matrix} \right\} b$

$\pi \Delta H'$

$\Delta F'$ $\left. \begin{matrix} 298^{\circ}37'0''R \\ 49^{\circ}46'0''R \end{matrix} \right\} b$

$\Delta H'$ $\left. \begin{matrix} 203^{\circ}05'0''L \\ 33^{\circ}50'50''L \end{matrix} \right\} b$

$\pi \Delta F'$

$\Delta I'$ $\left. \begin{matrix} 203^{\circ}05'0''R \\ 33^{\circ}50'50''R \end{matrix} \right\} b$

$\Delta I'$ $\left. \begin{matrix} 263^{\circ}16'0''L \\ 43^{\circ}52'40''L \end{matrix} \right\} b$

$\pi \Delta F'$

$\Delta G'$ $\left. \begin{matrix} 263^{\circ}16'0''R \\ 43^{\circ}52'40''R \end{matrix} \right\} b$

$\Delta F'$ $\left. \begin{matrix} 315^{\circ}01'20''L \\ 52^{\circ}30'20''L \end{matrix} \right\} b$

$\pi \Delta G'$

$\Delta H'$ $\left. \begin{matrix} 315^{\circ}01'20''R \\ 52^{\circ}30'20''R \end{matrix} \right\} b$

$\Delta H'$ $\left. \begin{matrix} 103^{\circ}22'0''L \\ 17^{\circ}13'40''L \end{matrix} \right\} b$

$\pi \Delta G'$

$\Delta I'$ $\left. \begin{matrix} 103^{\circ}22'0''R \\ 17^{\circ}13'40''R \end{matrix} \right\} b$

$\pi \Delta H'$

$\pi \Delta F'$

$\pi \Delta G'$

See notes
of angles
Page
Redcheck

April 7th-27

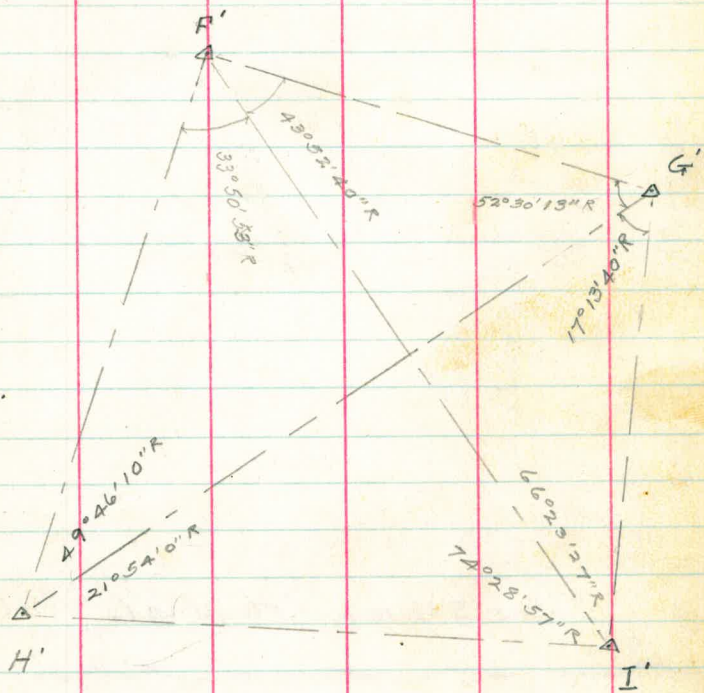
Clear-Warm

P.M. - Hazy

Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chain

46

115



Plotted

(47)

Primary Points

H. L. Mag B Tru B Dist

See sketch - Page 46

$\Delta G'$ $\left. \begin{array}{l} 398^{\circ}20'40''R \\ 66^{\circ}23'30''L \end{array} \right\} 6$

$\pi \Delta I'$

$\Delta F'$ $\left. \begin{array}{l} 398^{\circ}20'40''R \\ 66^{\circ}23'30''R \end{array} \right\} 6$

$\Delta F'$ $\left. \begin{array}{l} 496^{\circ}53'40''R \\ 74^{\circ}29'0''L \end{array} \right\} 6$

$\pi \Delta I'$

$\Delta H'$ $\left. \begin{array}{l} 246^{\circ}53'40''R \\ 74^{\circ}29'0''R \end{array} \right\} 6$

$\pi \Delta I'$

April - 15th - 27
Cool - Cloudy

Andrews - T
Heffernan - R (97)

116

Sketch - Page 46

(48)

Primary Points
Recheck
H. L. Mag. B. Tru B. Dist.

See Sketches Page 41 x 46

$\Delta H'$ $\left. \begin{array}{l} 270^{\circ} 47' 0'' L \\ 33^{\circ} 50' 50'' L \end{array} \right\} 8$

$\pi \Delta F'$

$\Delta I'$ $\left. \begin{array}{l} 270^{\circ} 47' 0'' R \\ 33^{\circ} 50' 50'' R \end{array} \right\} 8$

$\Delta I'$ $\left. \begin{array}{l} 263^{\circ} 16' 0'' L \\ 43^{\circ} 52' 40'' L \end{array} \right\} 6$

$\pi \Delta F'$

$\Delta G'$ $\left. \begin{array}{l} 263^{\circ} 16' 0'' R \\ 43^{\circ} 52' 40'' R \end{array} \right\} 6$

$\Delta G'$ $\left. \begin{array}{l} 397^{\circ} 28' 0'' L \\ 49^{\circ} 41' 0'' L \end{array} \right\} 8$

$\pi \Delta F'$

$\Delta C'$ $\left. \begin{array}{l} 397^{\circ} 28' 0'' R \\ 49^{\circ} 41' 0'' R \end{array} \right\} 8$

$\Delta C'$ $\left. \begin{array}{l} 176^{\circ} 05' 0'' L \\ 29^{\circ} 20' 50'' L \end{array} \right\} 6$

$\pi \Delta F'$

$\Delta D'$ $\left. \begin{array}{l} 176^{\circ} 05' 0'' R \\ 29^{\circ} 20' 50'' R \end{array} \right\} 6$

$\Delta D'$ $\left. \begin{array}{l} 195^{\circ} 06' 0'' L \\ 32^{\circ} 31' 0'' L \end{array} \right\} 6$

$\pi \Delta F'$

$\Delta E'$ $\left. \begin{array}{l} 195^{\circ} 06' 0'' R \\ 32^{\circ} 31' 0'' R \end{array} \right\} 6$

Recheck - $\pi \Delta F'$

April 13th - 27

Clear - Warm

Ferguson - Chief
Andrews - X
Heffernan - Rec
Mattoon - Chain

(48)

Recheck of Angles from
 $\triangle A F'$ - See Sketches - Pages
41 x 46

117

(49)

Primary Points

H.L. MagB TruB Dist

Recheck of Angles from
 $\Delta D'$

See Sketch - Page 41

$\Delta F'$ $\left. \begin{array}{l} 173^{\circ}25'20''L \\ 28^{\circ}54'10''R \end{array} \right\} b$

$\Delta D'$

$\Delta G'$ $\left. \begin{array}{l} 173^{\circ}25'20''L \\ 28^{\circ}54'10''R \end{array} \right\} b$

$\Delta G'$ $\left. \begin{array}{l} 337^{\circ}51'30''R \\ 56^{\circ}18'20''L \end{array} \right\} b$

$\Delta D'$

$\Delta C'$ $\left. \begin{array}{l} 337^{\circ}51'30''R \\ 56^{\circ}18'20''L \end{array} \right\} b$

$\Delta D'$

April-16-27

Andrews. T

Heffernan-Rec

49

Cool-Cloudy

Recheck of Angles from
T D' - See Sketch - Page 41

118

50

Primary Points

H.L. Mag B Tru B Dist

Cont Page 51

$\Delta N'$ }
461°50'0" L }
76°58'20" R }

$\pi \Delta L'$

$\Delta J'$ }
261°50'0" R }
76°58'20" L }

$\Delta J'$ }
333°09'0" L }
83°17'0" R }

$\pi \Delta L'$

$\Delta K'$ }
333°09'0" R }
83°17'0" L }

$\Delta J'$ }
242°58'20" L }
40°29'40" R }

$\pi \Delta N'$

$\Delta L'$ }
242°58'20" R }
40°29'40" L }

$\Delta L'$ }
372°21'0" L }
95°05'20" R }

$\pi \Delta N'$

$\Delta M'$ }
372°21'0" R }
95°05'20" L }

$\Delta N'$ }
221°44'0" L }
27°43'0" R }

$\pi \Delta M'$

$\Delta J'$ }
221°44'0" R }
27°43'0" L }

$\Delta J'$ }
139°14'20" L }
23°12'20" R }

$\pi \Delta M'$

$\Delta L'$ }
139°14'20" R }
23°12'20" L }

$\pi \Delta L'$

$\pi \Delta N'$

$\pi \Delta M'$

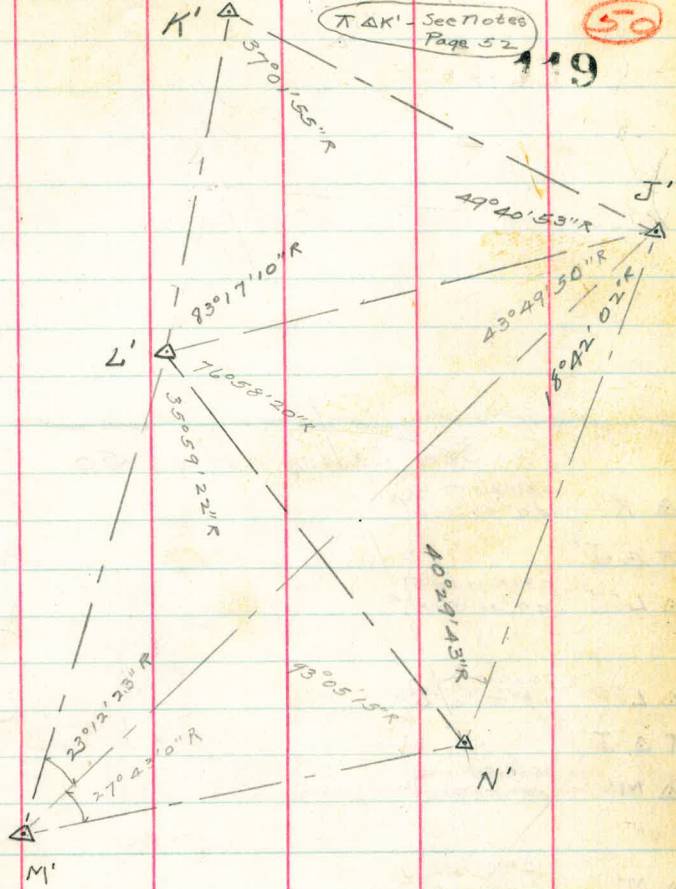
April 13th - 27

Clear - Warm - P.M.

Andrews - T
Heffernan - Rec
Mistoon - Chain

⊠ Δ K' - See Notes
Page 52

50



(51)

Primary Points

H. L. magd Tr. B. Dist.

See Sketch - Page 50

$\Delta K'$ $\left. \begin{array}{l} 238^{\circ}43'30''L \\ 49^{\circ}40'50''R \end{array} \right\} 4$

$\pi \Delta J'$

$\Delta L'$ $\left. \begin{array}{l} 238^{\circ}43'30''R \\ 49^{\circ}40'50''L \end{array} \right\} 4$

$\Delta L'$ $\left. \begin{array}{l} 262^{\circ}59'0''L \\ 43^{\circ}50'0''L \end{array} \right\} 6$

$\pi \Delta J'$

$\Delta M'$ $\left. \begin{array}{l} 262^{\circ}59'0''R \\ 43^{\circ}50'0''R \end{array} \right\} 6$

$\Delta M'$ $\left. \begin{array}{l} 112^{\circ}32'10''L \\ 18^{\circ}42'0''L \end{array} \right\} 6$

$\pi \Delta J'$

$\Delta N'$ $\left. \begin{array}{l} 112^{\circ}32'10''R \\ 18^{\circ}42'0''R \end{array} \right\} 6$

$\Delta M'$ $\left. \begin{array}{l} 215^{\circ}56'10''L \\ 35^{\circ}59'20''L \end{array} \right\} 6$

$\pi \Delta L'$

$\Delta N'$ $\left. \begin{array}{l} 215^{\circ}56'10''R \\ 35^{\circ}59'20''R \end{array} \right\} 6$

K
L
J

April-15-27

Andrews - N.
Heffernan - Rec

Cloudy-Cool

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Sketch - Page 50

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Primary Points

H.L. Mag B Tru B Dist

Con't Page 53

$\Delta L'$ $\left. \begin{array}{l} 148^{\circ}07'40''L \\ 37^{\circ}01'50''L \end{array} \right\} 4$

$\pi \Delta K'$

$\Delta J'$ $\left. \begin{array}{l} 148^{\circ}07'40''R \\ 37^{\circ}01'50''R \end{array} \right\} 4$

See Sketch
Page 50

$\Delta J'$ $\left. \begin{array}{l} 275^{\circ}17'40''L \\ 68^{\circ}49'20''L \end{array} \right\} 4$

$\pi \Delta K'$

$\Delta H'$ $\left. \begin{array}{l} 275^{\circ}17'40''R \\ 68^{\circ}49'20''R \end{array} \right\} 4$

$\Delta H'$ $\left. \begin{array}{l} 155^{\circ}01'20''L \\ 38^{\circ}45'20''L \end{array} \right\} 4$

$\pi \Delta K'$

$\Delta F'$ $\left. \begin{array}{l} 155^{\circ}01'20''R \\ 38^{\circ}45'20''R \end{array} \right\} 4$

$\Delta F'$ $\left. \begin{array}{l} 273^{\circ}32'40''L \\ 68^{\circ}23'0''L \end{array} \right\} 4$

$\pi \Delta H'$

$\Delta K'$ $\left. \begin{array}{l} 273^{\circ}32'40''R \\ 68^{\circ}23'0''R \end{array} \right\} 4$

$\Delta K'$ $\left. \begin{array}{l} 202^{\circ}27'0''L \\ 33^{\circ}44'40''L \end{array} \right\} 6$

$\pi \Delta H'$

$\Delta J'$ $\left. \begin{array}{l} 202^{\circ}27'0''R \\ 33^{\circ}44'40''R \end{array} \right\} 6$

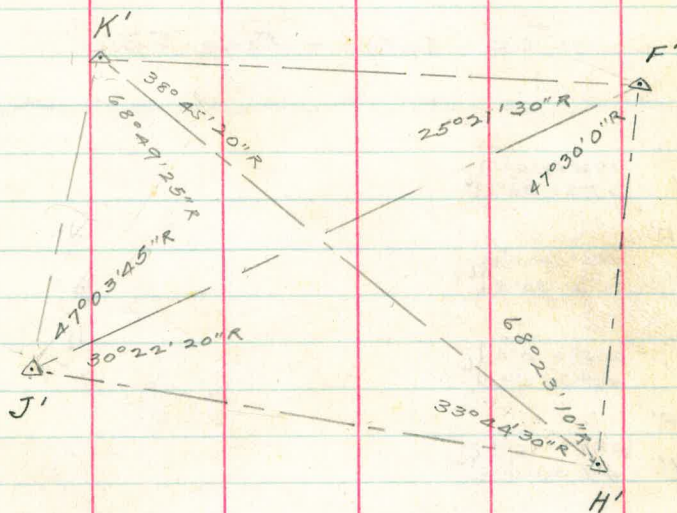
April - 14 - 27

Clear - Warm

Andrews - T
Heffernan - Rec

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K calc & Plotted JB

53

Primary Points

H. L. Mag. B. Tru. B. Dist

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$\Delta K'$ $\left. \begin{array}{l} 152^{\circ} 09' 0'' A \\ 25^{\circ} 21' 30'' L \end{array} \right\} 6$

$\pi \Delta F'$
 $\Delta J'$ $\left. \begin{array}{l} 152^{\circ} 09' 0'' A \\ 25^{\circ} 21' 30'' R \end{array} \right\} 6$

$\Delta J'$ $\left. \begin{array}{l} 285^{\circ} 0' 0'' L \\ 47^{\circ} 30' 0'' L \end{array} \right\} 6$

$\pi \Delta F'$
 $\Delta H'$ $\left. \begin{array}{l} 285^{\circ} 0' 0'' R \\ 47^{\circ} 30' 0'' R \end{array} \right\} 6$

$\Delta H'$ $\left. \begin{array}{l} 182^{\circ} 14' 0'' L \\ 30^{\circ} 22' 20'' L \end{array} \right\} 6$

$\pi \Delta J'$
 $\Delta F'$ $\left. \begin{array}{l} 182^{\circ} 14' 0'' R \\ 30^{\circ} 22' 20'' R \end{array} \right\} 6$

$\Delta F'$ $\left. \begin{array}{l} 188^{\circ} 15' 0'' L \\ 47^{\circ} 03' 40'' L \end{array} \right\} 4$

$\pi \Delta J'$
 $\Delta K'$ $\left. \begin{array}{l} 188^{\circ} 15' 0'' R \\ 47^{\circ} 03' 40'' R \end{array} \right\} 4$

$\pi \Delta F'$

$\pi \Delta J'$

April - 14 - 27

Andrews, T.
Hefferman - REC

Clear - Warm

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Sketch - Page 52

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Primary Points

Ties from Primary Points
K' and J' to Point on the
North Edge of Pavement of
County Hwy. Way.

Loth - N. Edge
Pavement Co. Hwy. Way.

$\triangle K'$ 55°17'50" L

$\triangle J'$

Loth - N. Edge
Pavement Co. Hwy. Way.

$\triangle J'$ 7°38'20" R

$\triangle K'$ 7°38'20" R

April 15-27

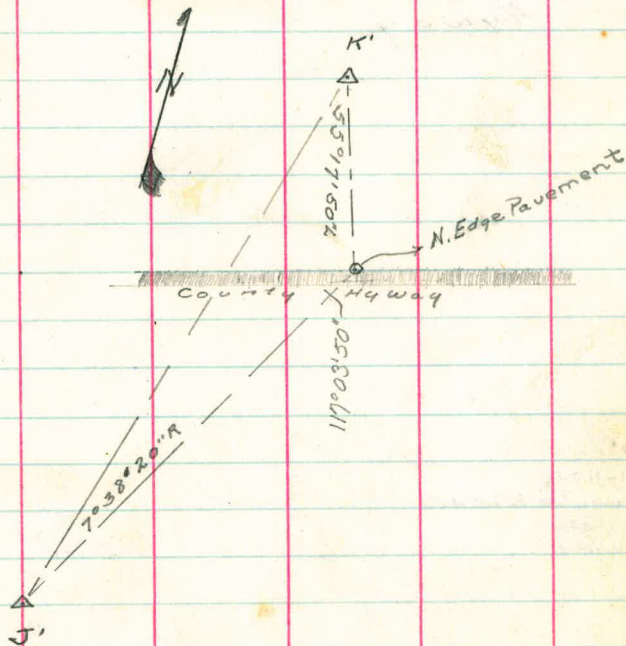
Andrews - T
Heffernan - Pa

54

Cool - Cloudy

199

Ties from Primary
Points to County Highway



(55)

Primary Points

Ties from Primary Points
D' and E' to County
Highway

$\Delta D'$

Nail - N. Edge
 \perp Co Highway Pav. $2^{\circ}28'40''R$
along - N. Edge
Co. Highway Pav.

$\Delta E'$

Nail - N. Edge
 \perp Co Highway Pav. $82^{\circ}13'20''R$

$\Delta D'$

N. Edge Co
Highway Pavement

$\perp \Delta E'$ $95^{\circ}18'40''L$

$\Delta D'$

April - 1925 - 27

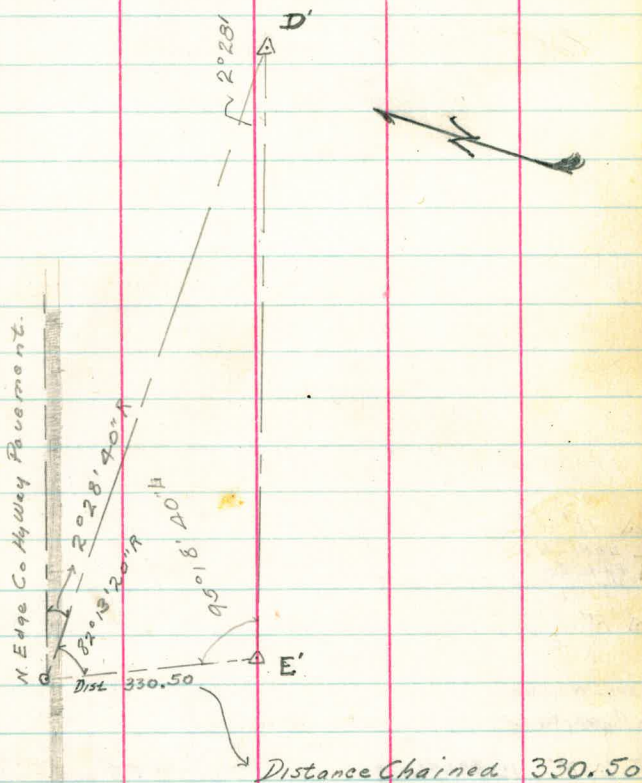
Ferguson - Chief
Andrews - T
Heffernan - Rec

55

Cool. Cloudy

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Ties from Primary Points
E' and D' to N. Edge County Highway
Pavement.



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Primary Points.

Ties from Primary Points
F' and H' to County
HyWay

△ H'
Lath - N.
Edge Co.
Hyway Pav. 29°51'30"R

△ F'

Lath - N. Edge
Co. HyWay Pav.

∟ △ F' 128°32'0"R

△ H'

April - 15th - 27

Andrews - T
Heffernan - Rec

Cool - Cloudy

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Ties to County Highway.

