

178

THE
BIBLE

$\frac{712.5}{1369.0}$ Hub in yo
 $\frac{1644.5}{1756.3}$ Δ Hub

$\frac{37.73}{27.73}$

$\frac{98994}{12.667}$
 $\frac{19938}{12.667}$
 $\frac{19938}{12.667}$
 $\frac{19938}{12.667}$

$\frac{230445}{9.999816}$
 $\frac{23.0633}{9.999816}$

$\frac{22.16}{5.016}$
 $\frac{16.14}{1.999}$

$\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$
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$\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$

$\frac{12.96}{1.07}$
 $\frac{12.96}{1.07}$
 $\frac{12.96}{1.07}$

$\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$
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$\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$
 $\frac{1.111}{1.111}$

$\frac{1.111}{1.111}$

$\frac{998.60}{1.111}$

INDEX

S. 25-26-141-31 + 30-141-30 subdiv.
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Sec. 26-141-31 Horst 13-30

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White Pine Beach Lot B, Sec. 12-140-35 45-53

Survey For George Blehm
Thunder Lake Shards 67-75

1
S. 25-141-31.

June 15, 1921.

E. B. Horst, with car and
E. A. McPherson, drive to
Ten Mile lake to check chain-
ing and angles of sec. 25
141-31 which we find O.K.
We are driven out by rain
at 3 p.m.

E. B. Horst.

June 18, 1921

Horst + McPherson,
work on N.W. Cor. Sec. 26,
141-31 where we look for
the original sec. cor. to
secs. 22-23-26-27.

We decide to continue
the random line bet. secs.
22-27 N. to sec. cor. 21-22
27-28 for further information
and leave the outfit at
N.W. Cor. Sec. 26.

E. B. Horst.

June 20, 1921.

Horst + McPherson,

Work in office compiling notes
of previous surveys in S.E.
COR. of Twp. 141-31 and SW.
COR. Twp. 141-30 for use in
work on secs. 25-26-141-31 &
30-141-30.

E. B. Horst.

3

25-26-141-31

30-141-30

Tues. June 21, 1921

After having tried to find a place to board and failed and having tried to borrow a tent and failed, I apply to R. E. Delury to rent one of his cottages

5 S. 25-24-141-31
" 30-141-30,

June 22, 1921.

E. B. Horst + E. A. McPherson

Begin at Sta. 8009.7 W. of
Portage Lake and bet. secs. $\frac{22}{27}$
being a point 111.4 S. of the U.S. MC.
on East. Side of Gadball Lake.

I sight W. across lake and set a
Point on line, cross over. sight E.
turn L. $110^{\circ}00'$ chain out 243.6 ft.
set over this pt. interior angle =
 $50^{\circ}03'$ Distance over Lake =
630.6 ft.

at 8640.3 leave lake

" 8800. Neck of swp.

" 8971.5 Tack in 8" W.P. stump.

" 9025 cut Tamck swp.

" 9515 Iv. Swamp.

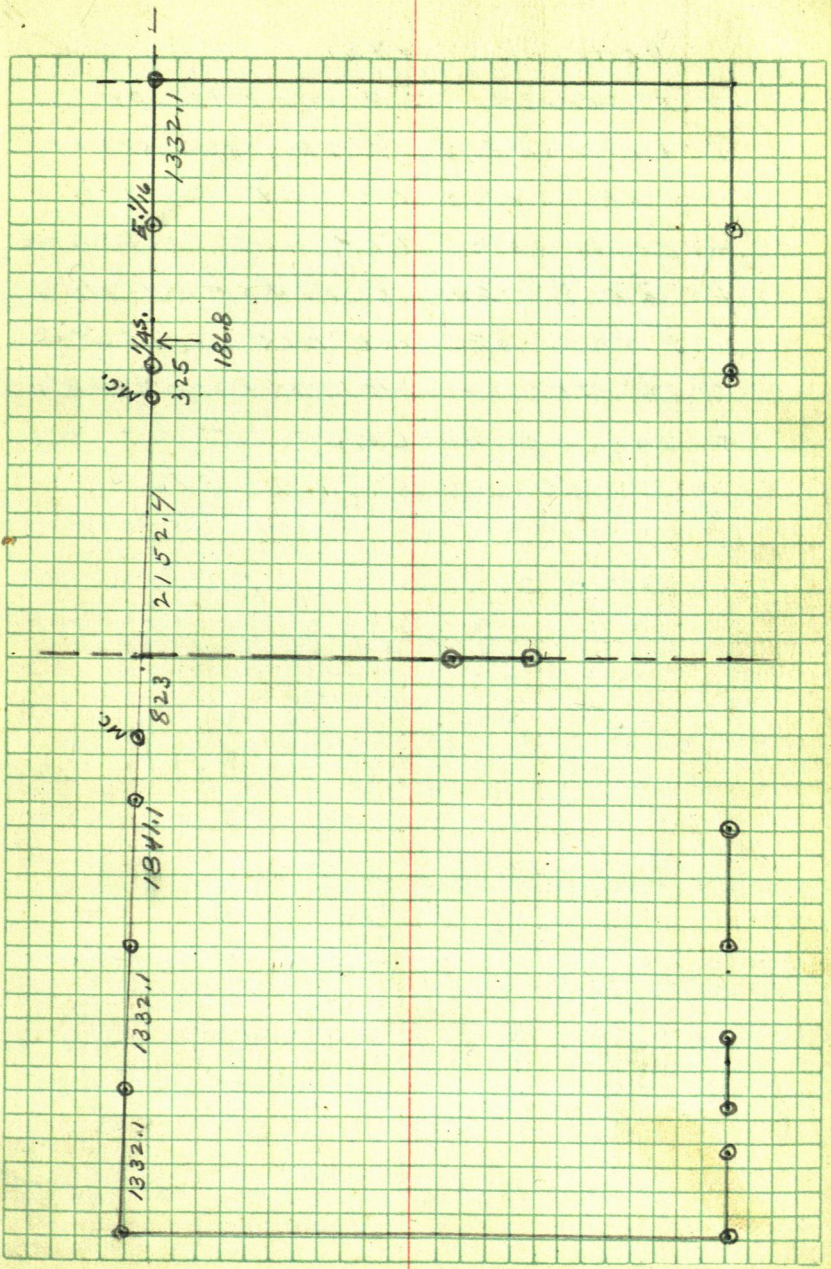
" 9740.0 set Hub on E. Side N.T.S. Rd.

" 9827.5 Fall 76 ft. N. of the
original U.S. Sec. Cor. To secs.

21-22-27-28 being a 4x4x48" stake.

Return to Bob DeLury's
Cottage for overnight.

E. B. Horst.



7

S. 30-141-30

June 23, 1921

E.B. Horst, E.A. McPherson
Ray Gabel, Bob Aylsworth
make an all day search
for the sec. cor. and accessories,
19-20-29-30 and for evidence
of the sec. line bet. secs. 29-30
but are unable to locate any
thing of value.

E.B. Horst.

June 24, 1921

E. B. Horst, E. A. McPherson, Ray Goble and Robt. Aylsworth, set I.M. on N. Line of sec. 25-141-31.

At sta. 325 ft. E. of the USMC, on E. side of Portage Lake and on true sec. line I set a 2" x 48" I.M.

for M.C. on W. side of small lake. $\frac{1}{4}$ S. Cor falls E, 186.8 ft. in water.

We go E. of this lake and on true sec. line at sta. 1100.9 ft. E. of U.S. M.C. I set a 2" x 48" I.M. for M.C.

This point is 588.2 ft. E. of $\frac{1}{4}$ S. Cor. at sta. 7843.9 ft. E. of USMC I set

a 2 1/2" x 30" Capped I.M. at true E. $\frac{1}{4}$ S. Cor. between Secs. 24-25, 141-31.

Return to camp

E. B. Horst.

9

July 7, -8, 1921

E. B. Horst, Mc. Pherson & R. Gobel

Setting T.M.s. in Sec. 25-141-21.

Gobel works $\frac{1}{2}$ day July 7.

29 19
25 30

28 30
36 31

C.
N.
U.



M.C. 1/45.

TEN MILE LAKE.

24-141-31

11

Dec. 19-1921.

E. B. Horst, & Ben Beach,
resume survey of sec. 26-141-
31.

We get notes & plats of previous
surveys, and preliminary work on
this section and make arrangem
ents with R. E. Delury to use his
cottage at Crescent Beach for
a camp at \$1.00 per day including
stove, dishes & bedding.

Dec. 20, 1921.

Horst & Ben Beach get groceries
at J. P. Bilbens to the amt. of \$28.36
and hire a car & trailer from
Grindalls Garage to take us &
outfit to Crescent Beach.
We arrive at 3 P.M.

C. J. Beach came over 2 A.M. and
cut wood & built fires.

E. B. Horst.

Dec. 21, 1921

Horst-Beach + Beach.

Begin at $\frac{1}{4}$ S. cor. secs. 25-36

Chain W. across Ten Mile Lake

at 34.2 W. M.C.

at 3006.0 set Temp pt. for sec.

cor. on ice.

Temp. pt = 0.00 W.

at 1363.0 M.C. on W. side Lake

bet. secs. 26-35

at 1406.4 Temp. W.C. M.C.

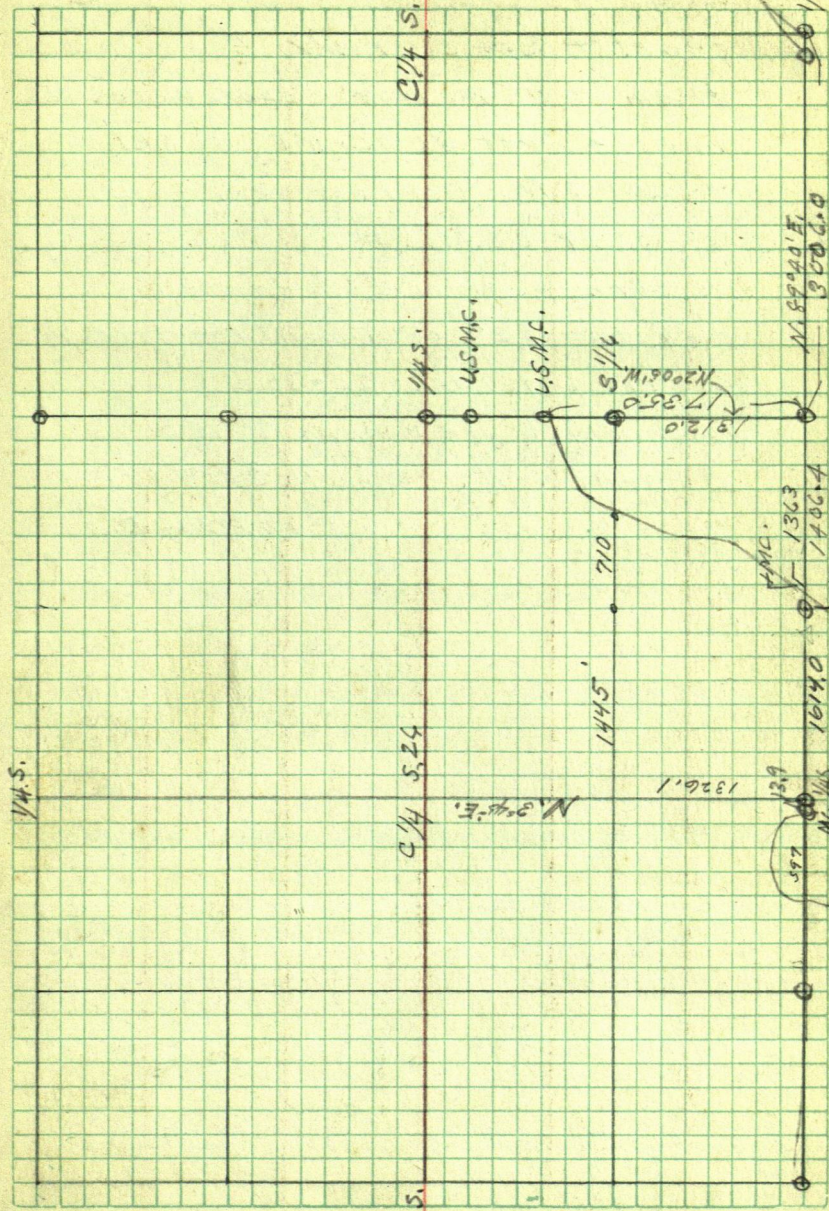
We chain from Temp. sec. cor.

N. bet. secs. 25-26

at 1312.0 set pt. for $S. \frac{1}{16}$ S. cor.

at 1735.0 I.M. at M.C. Secs. 25-26.

E. B. Horst.



C/4 S. 25.

C/4 S. 25.

1/4 S.

N. 34 1/2° E.

1445'

710

S. 11 1/4°

N. 200 5' W.
1735.0

1912.0

F.M.C.

1363

1400.4

W.C.M.C.

139

597

N. 145°

N. 89 40' E.
3020.4

348

145

3020.4

Dec. 22-1921

Horst + same crew.

Begin at U.S. M.C. # 8 ^{W side of T.M. Lake bay} + chain W. on sec.
line at 28 ft. W. W.C. M.C. We set a
2x48" I.M. continue W.

at 1628 U.S.M.C. # 9.

We chain E. from M.C. # 9 — 13.9 ft.

and set a 2"x 48" I.M. at the true $\frac{1}{4}$
S. cor. bet. secs. 26-35

from which we ran N. $30^{\circ}30'E$ on
a random Q. about 3000 ft.

E. B. Horst.

26-41-31.

12

Dec. 23 1921.

Horst +

- Same crew continue $\frac{1}{4}$ N. 30° E,
and chain what we run yesterday.
at 300 N. ent. SWP. N.E. + SW.
" 800 " run a land E. end of highland
at 900 " SWP. extends W. again.
" 1300 " set stake Mkd. + leave SWP.
" 2175 " ent open SWP. N.E. SW.
" 2600 " set stake Mkd. (2600-N.)
" 2675 " br SWP. N.E. SW.
" 4000 " set stake Mkd. 4000-N.
" 5316 " set a P.I. Δ on random sec.
line at sta. 1950-W. of MC. at
portage Lake
or 108.6 ft. W. of pt. for true $\frac{1}{4}$ sec. cor.
bet. secs. 23/26.
Crew leaves to celebrate Xmas.
I call Grindalls garage at 8:15 P.M.
and have car come after me and
go to Walker. E.B. Horst.

Dec. ²⁴26, 1921.

E. B. Horst, Working in office
Making preliminary Plot of
Sec. 18, 142-31

E. B. Horst.

Dec. 27, 1921.

E. B. Horst, B. M. Beach,
leave Walker for Ten Mile Lake
and go to Camp. Where we find
C. H. Beach.

We go to Portage Lake and set
Temp. Corners on ice for all pts.
that fall in Portage Lake.

Being the N.E. cor. S. 26. at 823-77 MC.
 N 4 1/2 - S 25-26 S. 13 1/4,
 1/4 E - S 25-26 S. 26 28,
 MC. - S. " - " S. 29 1/2

We walk to M.C. between secs. 26-35 near
the SW. cor. sec. 26 and run the courses
and distances given in U.S. Meander

Notes for the purpose of tying to the
U.S. M.C. between secs. 34-35.

We begin at M.C. S. 26-35

thence S. 32° W. 11,000 chs. = 7260 ft.

" S. 25° E. 7,000 " = 462 "

" S. 65° E. 7,000 " = 462 "

" S. 10° W. 7,000 " = 462 "

" S. 44° W. 10,000 = 660 at 550 mt shore
pt. N. 53° 45'
about 2000

" S. 70° W. 10,000 = 660 only.

Dec. 28-1921.

We set I.M. on S. line of sec. 26.
at M.C. #10 set I.M. 2"x48"

" M.C. #11 " " "

" M.C. #12 " " "

From M.C. #12 Chain E. 283.5 ft.

and run N. 4000' E. 208 ft and set

S.M.C. on Papple point N.M. N. 1/4 S.M.C.

We walk W. on sec. line to P.T. Δ

at 5487.4 - S. and 747.8 - W. of M.C. #12

and chain W. 225.9 ft. to the Cor

to Secs. 26-27-34-35 where we set

a 2" x 48" I.M. E.B. Horst.

Dec. 29-1921

Same crew.

Begin at the $\frac{1}{4}$ S. pt. on portage Lake
(on ice) and run N. 89° 30' W. (Mag. ^{var. 6.5%} org.)
on a random E+W. $\frac{1}{2}$.

at 530 ft. W. leave Lake.

at 625 " " set temp. S.M.R.

" 1441.7 " " Mark old pine snag.

" 2400.0 " " cut swp.

" 2815.0 " " P.I. on N+S rand. $\frac{1}{2}$ at
2664.2-N.

Continue W. and fall 24.8 ft. N. of
the true $\frac{1}{4}$ sec. cor. between secs. 26/27
which we establish by chaining N. 211.6
ft. from Δ 3049.4 -S then W. 82.8 ft.
at 90° to random sec. line.

E.H. Frost.

Friday Dec. 30-1921.

Same crew.

go to sta. 4162.6-5 on random
line bet. secs 26-27 where
we chain W. at 90° to random line
154.3 ft. and set the S. $\frac{1}{16}$ S. cor.
(wood post) from which we run
S. 89° 30' E. ^(Mag) and int. the N. S. $\frac{1}{16}$
26 ft. N. of the S. $\frac{1}{16}$ S. cor.

set true C. S. $\frac{1}{16}$ from which we
run S. 89° 30' E. (Mag)

at 1445.0 set true S. E. $\frac{1}{16}$ S. cor.
at E set S.M.C. on Lake
shore.

Intersect the stake at the S. $\frac{1}{16}$ S.
cor. on ice.

E.B. Horst, goes to Walker to
make plats for Commrs. Meeting
E.B. Horst.

Dec. 30, 1921

E. B. Horst in office on sec. 18-142-31

B. M. & C. H. Beach in sec. 26, 141-31
running lines.

Begin at the W 1/4 bet. secs. 26-35
and run N 89° 00' E. (Mag. br.) on the
W 1/4 line, and int. the ~~SEC.~~ line
bet. $\frac{23}{26}$ at 92 ft. W. of the true
W 1/4 s. cor.

E. B. Horst,
By B. M. Beach.

Jan. 2, 1922

B.M. & C.B. Beach,

Set the true C.N. $\frac{1}{16}$ S. 26
from which we run E. on Mag.
brg. on N. $\frac{1}{16}$ line

at ¹³⁷⁹ E int S.R.H. #80

" E set. S.M.C.

" E fall 1.4 ft. S. of
N. $\frac{1}{16}$ pt. on portage Lake

We go to the C.N. $\frac{1}{16}$ and run W.
on N. $\frac{1}{16}$ line and fall 13.0 ft.
S. of the true N. $\frac{1}{16}$, bet. Secs.
26-27 -141-31.

E.B. Horst
by B.M. Beach.

Jan. 3, 1922

Same crew setting 2x48" I.M.s.
at all remaining Pts. not previously
set and completing survey of
Sec. 26-141-31.

We return to Waker by Ford car
from Grindall's garage.

E.B.H.

By R.M. Beech.

Mon. Jan, 9, 1922

E.B. Horst, & B.M. Beach on S. 30
141-30

E.B. Horst, getting Notes & plates
B.M. Beach goes to Ten Mile Sta.
Via train to see about boarding
place. We can not be accomo-
dated within reach of our work
so we will rent R.E. Helurys
Cottage again

E.B. Horst.

Tue. Jan 10, 1922

E.B. Horst, & B.M. Beach move to
Camp. at Ten Mile Lake.

E.B. Horst.

Jan. 11, 1922

We work on Lat & Dip,
and fig. corrections all day.
In eve we go to get some
axeman it ^{wood.}

E.B. Horst.

Thurs. Jan. 12, 1922.

E. B. Horstz, B.M. Beach, C.D. Beach
and Guy Goble.

Begin at the 1/4 s. cor. (I.M.) bet.
secs. 30-31-141-30

and sight S. 87°01'E. on random
sec. line then run N. 0°21'E. on
random of S. 30. (rand. of S. 31-S. 0°21'E.)
at 260 to swf.

" 327 County Road on old grade

~~3~~ 520 swf. ent.

630 to swf.

870 ent. swf.

1138 to swf.

1300 stake.

1575 ent. swf.

1743 to swf.

2600 stake.

3557 ent. swf.

4000 stake

4050 to swf.

4688 ent. swf.

4900 to swf.

5240 ent. swf.

5409 1/4 s. bet. secs. 19-30

sets. W. 36.3 ft. (set wood post)

We go W. to Sta. 1395 E,
on random sec line bet. 19-30
and sight S. $89^{\circ}30'$ E. on sec line
then run is $0^{\circ}33'$ W. on random
W. $1/16$ line sec. 30 about $1/4$ mile
E. N. West.

Fri. Jan. 13, 1922

Same crew & Albert Thomas.
 Continue W $\frac{1}{4}$ line S. $0^{\circ}32'W$.
 and intersect the sec. line at
 23.6 ft. W. of the W $\frac{1}{4}$ S. cor. sec. $\frac{30}{31}$

P.M. We go to random sec. line
 between sec. 29-30 at sta 2640
 S. and chain S. 74.8 ft. and N. 135.2
 ft. and set the true $\frac{1}{4}$ S. 29-30.
 Run N. $89^{\circ}20'W$. on rand. $\frac{1}{4}$ S. 30.
 at 210 W. ev. swp.

	420	"	ent. swp. S. $75^{\circ}W$ + N. E.
	"	1350	" set. temp. stake
	"	1400	" ev. swp.
	"	1700	" Road. N + S.
by R.M.B.	"	2170	" ent. swp. N + S.
	"	2390	" ev. " N + S.
	"	2649.4	" P.I. on N. + S. $\frac{1}{4}$ at Sta. 2728.8 - N.
	"	3230	" ent. swp. S. $75^{\circ}W$. + N. $75^{\circ}E$.
	"	3828	" ev. swp.
	"	40390	" P.I. on W $\frac{1}{4}$ line. (Rand.)
	"	4178.	old U.S. Bnd. + Agency Trail - E.B. Hunt.
	"	<	

Sat. Jan. 14, 1922.

E. B. Horst, & same crew.

Continue E. & W. $\frac{1}{4}$ W. to sec. line
at 4212 W. ent. swp. N. & S.

" 4675 " cor. SWp.

" 5492.8 " the $\frac{1}{4}$ s. cor. bet
secs. 25-30 sets N. 20.6 ($\frac{1}{16}$ M. $\frac{2}{16} \times 30'$)

We go to the temp. E. $\frac{1}{16}$ S. cor
bet. secs. 30-31 and chain E. 0.6 ft
and N. 32 ft, and set wood post
for true E. $\frac{1}{16}$ S. cor.

thence N. $0^{\circ} 41'$ E. on random E. $\frac{1}{16}$
Sec. line S. 30.

Set P.I. on E. & W. CL. at sta. ~~1333.7~~

- 1333.7 - W. From this P.I. I chain
N. 5.0 ft and set wood post for the
true C.E. $\frac{1}{16}$ S. cor. S. 30.

Continue E. $\frac{1}{16}$ line N.

and fall 9.6 ft. W. of true E. $\frac{1}{16}$
S. cor. bet. secs. 19-30.

E. B. Horst.

Jan. Mon. Jan. 16, 1922.

E.B. Horst & same crew

go to the random sec. line bet.
secs. 29-30 at sta 1357.9-S.
and chain N. 67.5 ft. and set
wood post for the true N. $\frac{1}{16}$ S. cor.
from which we run N. $89^{\circ}30'W$,
set p. on E. $\frac{1}{16}$ line.

Int. N & S. $\frac{1}{2}$ at sta. 4091.5-N.
continue same line N. $89^{\circ}30'W$,
and fall 350 ft. N. of the I.M. at the
N. $\frac{1}{16}$ S. cor. bet. secs. 30-25 surge line.

C.H. Beach leaves at noon on acct. of
sickness due to exposure on Sat.
Jan. 14, when the entire crew were
wet on acct. of a thaw and nearly
froze to death when wind came up and
temp. fell. E.B. Horst.

P.S. E.B.H. goes to Walker for Lothrop
dope. E.B.H.

39.

30-141-30.

Jan. 17, 1922.

E.B. Horst in Walker getting
Lathrop plat. + other dope,
B.M. Beach in charge of crew,
sets the true C.S. $1/16$ S. cor. and
thence S. $89^{\circ}44'E$. on S. $1/16$ line.
set P.I. on E. $1/16$ line.

Fall 35.7 ft. N. of the true S. $1/16$
S. cor. bet. secs. 29-30.

Return to C.S. $1/16$ cor. and run
N. $89^{\circ}50'W$. on S. $1/16$ line
about $1/4$ mile, BT

E.B. Horst
By B.M.B.

Wed. Jan. 18, 1922.

High wind and heavy snow storm
E. B. Horst returns from Walker in
Grindall's car with trailer & I.M.s.
B.M.B. & crew setting I.M.s at follow-
ing places.

W. 1/16 bet. Secs. 19-30

1/4 S. " " " "

E. 1/16 " " " "

Sec. cor. Secs. 19-20-29-30.

N. 1/16 bet. Secs. 29-30.

1/4 S. " " "

C.E. 1/16 S.

C. 1/4 S.

C.S. 1/16 S.

E. 1/16 bet. Secs. 30-31

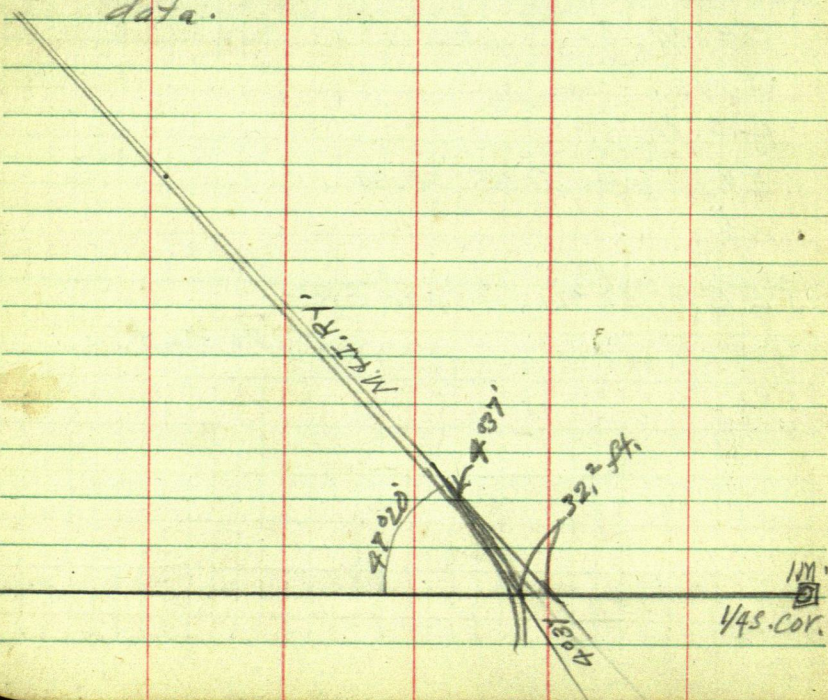
W. 1/16 " " "

E.B.H. setting A.P.s on S.R.H.

E.B. Horst.

30-141-30.

Thur. Jan. 19, 1922

E.B. Horst, B.M. Beach, Guy Gobel
& Albert Thomas,Complete the $5/16$ line W. of
N. & S. ϕ . and fall $\left\{ \begin{array}{l} 2.0 \text{ S. of true } 1/16 \text{ cor.} \\ 11.1 \text{ ft. S. of} \end{array} \right.$
I.M. which is not at its true pt.
for the $5/16$ bet. Secs 25-30.This I.M. goes S. 9.1 and N. 13.0 ft.
from where it now stands to true $1/16$ cor.I go to p.i. of M. & T. Ry & true
S. line of sec. 30 and take following
data.

S.R.H. Traverse in Sec. 30

S. line = N. 88° 30' W.

From apt. in road 57.3 ft E of well
thence N. 46° 46' W. 170.5 ft

N. 55° 55' W. 847.9 "

N. 87° 05' W. 352.3

S. 80° 06' W. 246.8

N. 72° 00' W. 165.0

To Random W. Boundary at
684.0 ft. N.

N. W 346.
G.R.R.

45

White Pine Beach.

Survey in Lot 2, Sec. 12.

From the $\frac{1}{4}$ sec. cor. 11×12 (I.M.)
 T140 R31 W, run line along
 East side of Long Beach
 platted lots.

545.2' Intersect M.P. (I.M.)

TRAVERSE -

From M.P. thence set plates
 on 0° and sight back on line
 to $\frac{1}{4}$ sec. cor. and turn angle
 to right on B. vernier of

R	$22^{\circ}38'$	-	Dist. 165.7'	-	hub A.P. 1
R	$14^{\circ}49'$	"	82.7'	"	" 2
L	$11^{\circ}49'$	"	163.1'	"	" 3
L	$5^{\circ}58'$	"	298.0'	"	" 4
R	$4^{\circ}20'$	"	231.8'	"	" 5

Owner 5 - $R 63^{\circ}42' - 149.6'$ to S.M.P. on N $\frac{1}{2}$ line.

R. P. Johnson - Belle Johnson, his wife

H. E. " - single

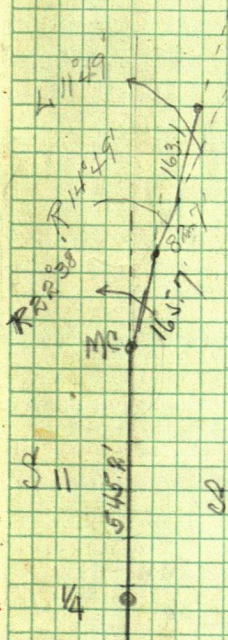
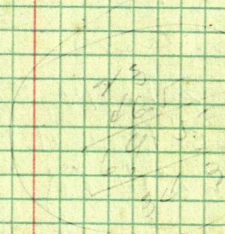
S. P. " - Bertha " , his wife

Survey Commenced July 7th '23
 P.E. Steadland - Transit
 G.A. Bacon - Ass't.

140-31 - Weather - cloudy - showers - Low humidity

Monday July 9th -

P. Steadland - Transit
 G. " " Chain.



L 5°58' 148.0'

R 4°16' 238.8'

R 63°44' 149.6'

12

14

47 July 7-23

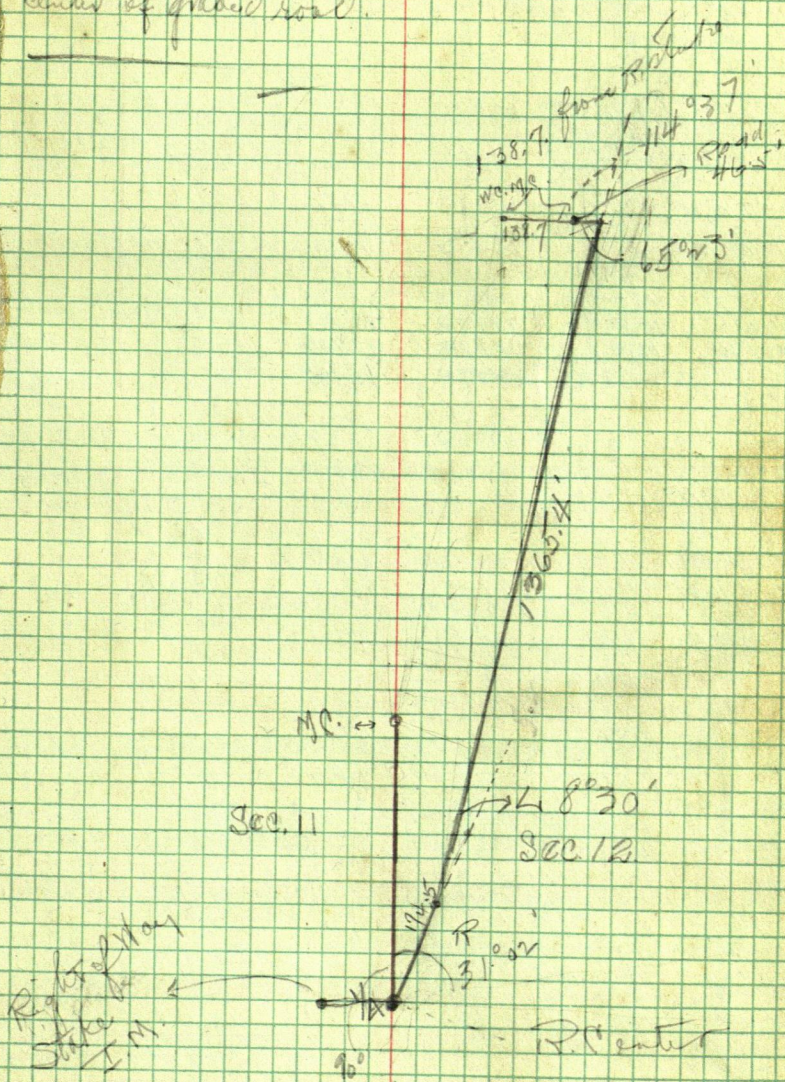
From $\frac{1}{4}$ sec. cor. 11 + 12. T. 140. R. 31
sight on M.S. 11 + 12 and turn
angle R $31^{\circ}02'$ to pt. in Road.
Dist 174.5,

thence \angle L $8^{\circ}30'$ to ^{Dist. 1365.4'} pt. in Road
at intersection of N $\frac{1}{16}$ line.

thence \angle L $114^{\circ}37'$ along N $\frac{1}{16}$
line @ 46.5' $1\frac{1}{2}''$ I.M. Right of way stake
@ 185.2' $1\frac{1}{4}''$ I.M. S.M.S.

Survey hub in Road out 1/16 line

Should move 5.3' West to
center of graded road.



49

		SIN.	COS.	N	S
S. 34°36' W	46.2	56784	82314		38.
North	497.9 498.2			497.9 498.2	
N. 22°38' E	165.7	38483 ✓	92299 ✓	152.94 ✓	
N. 37°21' E	82.7	60807 ✓	79388 ✓	65.65 ✓	
N. 25°38' E	163.1	43261 ✓	90158 ✓	147.05 ✓	
N. 19°40' E	298.0	33655 ✓	94167 ✓	280.62 ✓	
N. 24°06' E	231.8	40833 ✓	91222 ✓	211.59 ✓	
87°55'		99943 ✓	03374 ✓	6.84	
N. 27°48' E	188.3	79926 ✓	03839 ✓	7.23	
22°18'	1430.7	37946	92521		
S. 22°14' W	1430.7	37838	92565	1363.28	1322.41
22°12'	1429.6	97784	92587	1363.0	1368.95
		37811	92576		1324.48
22°14'		37838	92565		1362.52
				N	S
N. 63°02' W		89127	45347		
N. 62°53' W	167.5	89008	4558	76.34	
N. 19°40' E	270	33655	94167	254.25	
87°55'	231.8			211.59	
	188.3	03635	99934	6.84 7.23	
S. W	592.7	37838	92565	549.41	548.63
				537	
407.5	S. 22°14' W			549.04	379.14 377.20
46.2	S. 34°36' W				38.04
498.2	North			498.2	
10	N. 22°38' E			9.23	
				507.45	415.2
				415.24	
				9221	417.18

E W
 26.23

63.77 ✓

50.29 ✓

70.55 ✓

100.29 ✓

94.65 ✓

188.16

567.71 544.8

33.11 570.09

26.23

540.55

566.78

571.48

E W

149.09

90.86

94.65

188.16

373.67 149.09

149.09 224.26

1430

224.58 224.58

155.97

134.19

26.23

180.42

3.85 3.85

176.57

182.20

1363.28 567.71

38.04 26.23

1325.24 ~~573.48~~

541.48

.4101

132524 | 543480

530096

133840

132524

131600 ✓

4086

132524 | 541480

530096

1138400

1060192

782080

61.6

65.5

2.1

522014

140876

54941 | 224580

219764

481600

439328

420720

384587

361330

99815-
40.0

99888
90

99960
90
50.5-1489

90.5-1

62.32

574379

999218

5771.65

825°38'E
866°53'E

99908

3.29

60.00

778457

9.999147

7789.54

57.77

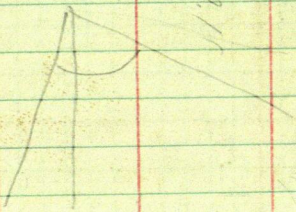
53.32
29.7
81

8.50

8907

65.2
93.29

60.11



1.00

99.04
62.32
91.40

6422

19.2

50.3

165.7 16.7
 AP₂ - 30.52 - 13+14
 60.11 - 12+13.

MC

~~0.10~~ 50 3 50 3 50 3

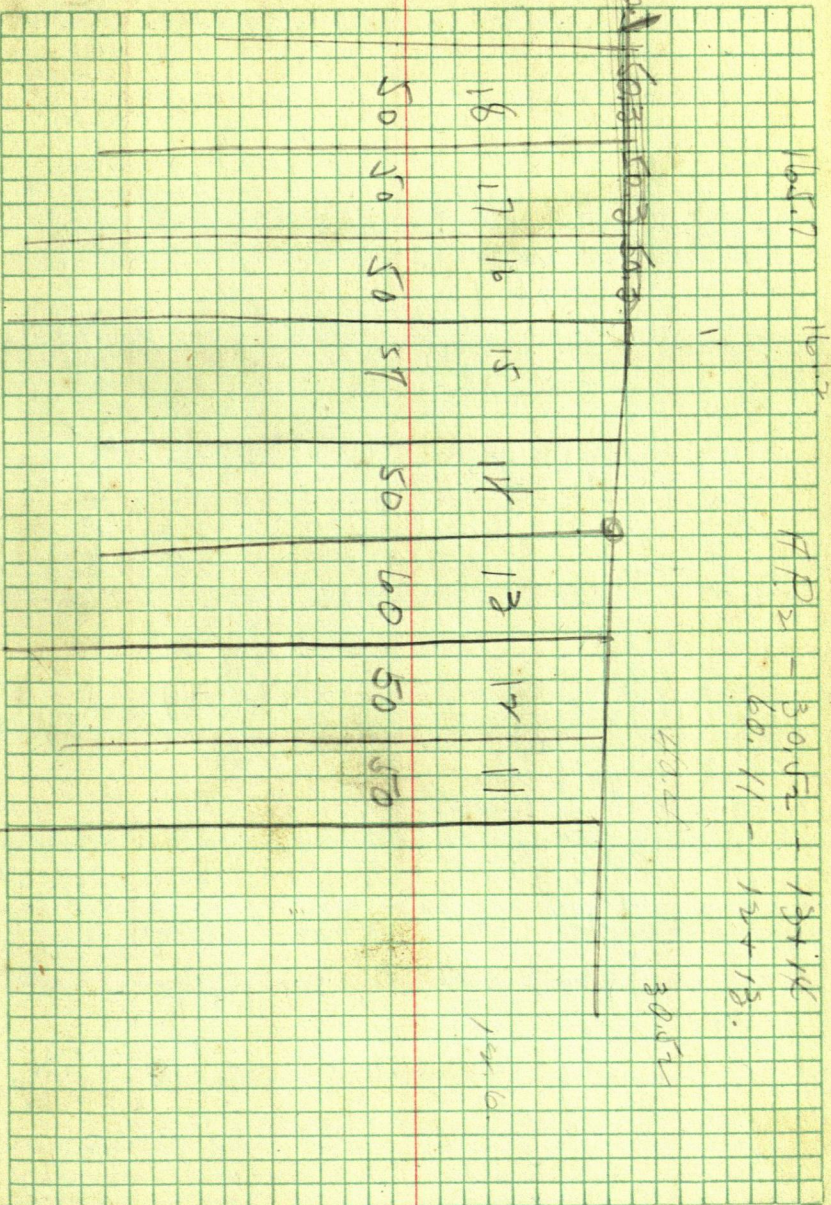
30.52
 30.52

19

18 17 16 15 14 13 12 11

19.6

50 50 50 50 50 60 50 50



$$\begin{array}{r} 653 \\ 676 \\ \hline 2.1 \end{array}$$

$$\begin{array}{r} 37037 \\ 22014 \\ \hline 15023 \end{array}$$

$$\begin{array}{r} 22038 \\ 22014 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 96417 \\ 63 \\ \hline 209251 \\ 578802 \\ \hline 60.74271 \\ 4.8 \\ \hline 65.5 \end{array}$$

4.8

$$\begin{array}{r} 61.77 \\ 15 \\ \hline 19.75 \\ 14 \\ \hline 5.05 \\ 13 \\ \hline 2 \end{array}$$

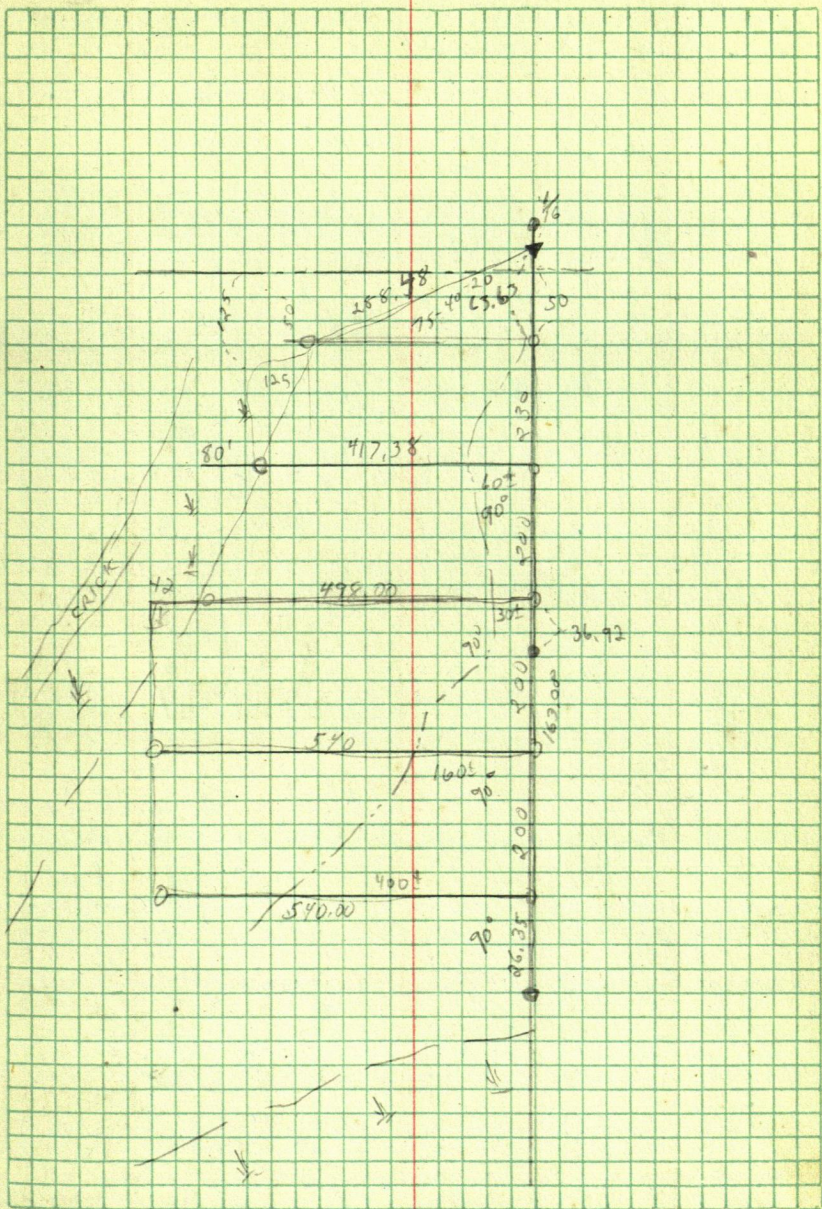
55

RAY KRESS

75-40-54

151-26-36

75-40-20



57

IVAN FISHER

K @ X 85 M

118-31-40

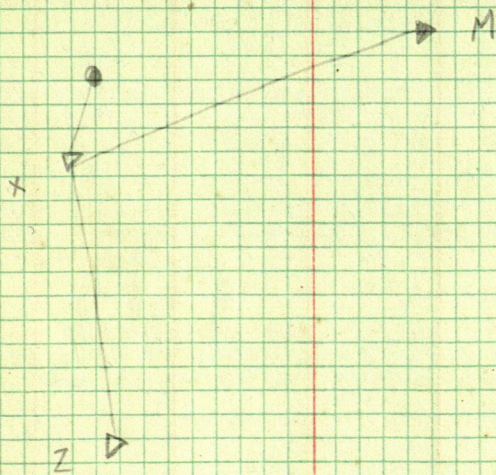
88-01-48 440.11

Z 237-03

118-31-30

90-27-42

258.42



67

Std.

712.5

Hub in rd.

1369.0

Δ Hub

1648.5

Hub on brink of hill

1756.3

Stake opp. M.C.

W
23° 57'

2.838
11.22

C

168.2

5.4

5.409/1.2

110° 44'

17456.3

15.3
11.202/1.2

M.C

B
105° 42'

49.335
49.3.65
62.25

A 13769.0

5

69

Sta	Defl. L		
M.C	49°14'	49°13'	22°L to X point
	40°46'	off set	
	27°59' to	5.90°16'W	
0-1 500.0	28°36'R	Crossing R Line X	49°14'
1-2 600.0	5°26'L	5.69°22'W	
	-12°54'	L. 554' to M.C.	
2-3 300.0	-12°52'L	5.63°56'W	
3-4 200.0	7°13'	5.51°04'W	Rodd
4-5 200.0	7°14'R		
5-6 250.0	-25°15'R	5.58°18'W	
	17°07'L	5.83°33'W	
6-7 100.0	17°05'L		
	6°06'L	5.66°28'W	
7-8 396.1	6°04'L		
	17°58'L	5.60°24'W	
8-9 368.65	43°44'	5.42°26'W	
	43°43'L		
93.3	65°04'	5.10°17'E	
	65°07'R		
84.4	39°14'	5.63°50'W	
	39°13'L		
167.85	32°14'	5.24°37'W	
	32°16'R		
191.4	34°49'L	5.56°53'W	
196.4	8°02'	5.22°04'W	
	8°05'R		
200.05	45°28'R	5.30°09'W	
	8°25'R	To Hub in Marks Rodd	
297.9	26°34'	5.75°37'W	
	26°38'R		
139.0	37°28'	N.77°45'W	
	37°29'R		
101.7	31°25'	N.40°16'W	
	31°27'L		
212.1	85°36'	N.71°43'W	
	85°37'R		
262.5	22°45'	N.13°54'E	
	22°48'R		
144.4	12°46'L	N.36°42'E	
	20°28'L		
83.8	30°30'R	N.18°56'E	
79.05	32°16'L	N.49°26'E	

W. N. 85° 56' W
 10° 16' W
 8° 02' W
 8° 05' W
 11° 16' W
 11° 16' W
 11° 16' W

7000
 9000

W 257					S 40°47' W				
S 40°46' W					28°36'			69°23'	
28°36'					S 69°23' W			95°46'	
S 69°23' W					5°26'			5°29'	
5°26'					S 63°57' W			526°23' E	
S 63°56' W					12°54'				
12°52'					S 57°03' W				
S 57°04' W					7°13'			95°21'	
7°14' R					S 58°16' W			58°16'	
S 58°18' W					25°15'				
25°15'					S 83°31' W			133°37'	
S 83°33' W					17°07'			526°23' W	
17°05'					S 66°24' W			89°55'	
S 66°28' W					6°06'				
6°04'					S 60°18' W			26°23'	
S 62°02' W					17°58'			90°00'	
17°58'					S 47°20' W			116°28'	
S 42°26' W					43°44'			160°28'	
43°43'					S 19°24' E				
S 10°17' E					65°04'				
65°07'					63°40'				
S 63°50' W					39°14'				
39°13'					24°26'			889°05' 8' W	
S 24°37' W					32°14'			260°28'	
32°16'					S 64°40' W				
S 57°53' W	S 56°53' W				34°49'			116°26'	
34°49'	34°49'				21°51'			1120°26' W	
S 29°04' W	22°04'				8°02'				
8°05'	8°05'				29°53'				
S 31°09' W	30°09'				45°28'				
45°28'	45°28'				75°09'			75°21'	
S 76°37' W	75°37'							26°34'	
26°38'	26°38'							101°5.5'	
S 103°15' W =	N 76°45' W				77°45'			78°05'	
	37°29'				37°29'			37°28'	
	N 39°16' W				40°16'			40°37'	
	31°27'				31°27'			31°25'	
	N 70°43' W				71°43'			72°07'	
	85°37'				85°37'			85°36' 1/2	
	N 14°54' E				18°54'			13°34' 1/2	
	22°48'				22°48'			22°45' 1/2	
	N 37°42' E				34°42'			36°20'	
	17°46'				17°46'			17°46'	
	N 19°56' E				19°56'			18°34'	
	30°30'				30°30'			29°28'	
	N 50°26' E				49°26'			48°09'	
	32°16'				32°16'			32°16'	
	N 18°10' E				17°10'			15°36'	

71

Def.
Angle239.5 ^{15°52'} ~~15°51'~~ L N.17°10'E86.4 ^{38°29'} 38°32' R N.10°19'EN.10°19'E
90°10'411.6 ^{8°55'} 8°58' R N.39°51'E215.7 ^{23°48'} 23°46' L N.48°49'E

59°37' to 6 M.C.

574.4 ^{29°37'} 29°39' R N.25°03'E169.05 ^{21°22'} 21°24' R N.54°42'E162.4 ^{19°42'} 19°37' L N.76°06'E

165.0 11°04' R N.56°29'E

170.6 ^{23°58'} 23°57' R N.67°33'E

588°30'E

Set up on A X S.W 1°52' center

6°36' chimney

Sta 13 8 1/2' creek 40' to 20°13' cottage

Thunder Lake 120°52' west

97°55' east to

100°57'

N. 18° 10' E.	17° 10'	N. 15° 46' E
15° 51'	15° 51'	15° 52'
N. 2° 19' E.	1° 19'	N. 0° 06' N
38° 32'	38° 32'	38° 29'
N. 40° 51' E	39° 51'	38° 23'
8° 58'	8° 58'	8° 50'
N. 49° 49' E	48° 49'	47° 18'
23° 46'	23° 46'	23° 45'
N. 26° 03' E	25° 03'	23° 30'
29° 39'	29° 39'	29° 37'
N. 55° 42' E.	54° 42'	53° 07'
21° 24'	21° 24'	21° 22 1/2'
N. 77° 06' E	76° 06'	74° 29 1/2'
19° 37'	19° 37'	19° 42'
N. 57° 29' E	56° 29'	54° 47'
11° 04'	11° 04'	11° 04'
N. 68° 33' E	67° 33'	65° 51'
23° 57'	23° 57'	23° 57'
N. 92° 30' E	91° 30'	N. 89° 48' E

S. 00° 42'

89° 45'

N. 89° 45' E

12'

N. 89° 57' E.

90° 10'

0° 06'

N. 89° 56' E

N. 0° 06' W

90° 10'

89° 44'

12'

89° 56'

Combs house

Bluhm's house

Pine wood

side of point

crack " " "

" " "

S. 26° 25' W

589° 50'

63° 28'

73

206.2' from #5

200' from #1

102.8' Hub

163.3'

34.2

1128.8 x 26°15'

137.0

1570.3
481.75

237.0

13.3 N = N53°45'E

321.2 Hub

15.55
436.75

20.3
30
09.7

9.7

40.3

44229 $\sqrt{13.3000}$
132687
313000
111.73

89493 $\sqrt{100000}$ 55.86

89493
105070
89493
155710
89493
652770
626459
263190
268479

1.1173
40.3
33519
446920
45.02719
1.1173
9.7
78211
10.0557
10.89781

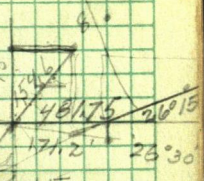
1.1173
55.86
16.759

R. Gibbs 610 Globe Bldg
St. Paul, Minn

73883 150000
147810
22,000

42.88

N. 89° 58' E 63.30



73885

73924 150000
147848
215200.182

481.7' - 2-5
00349.7
43353'
19268
14451
68 133

N. 42° 20' E
47° 38'
N. 42° 50' E.

N. 89° 58' E
53° 45'
36° 13'

20.00

89493 150000
89493
6050958
53611
681

2630'

2,00423

30

6412690

67.2

89493) 601269

536958

643010

676451

166790

67.22

3.8

63.42

LOTS 2-3 SEC 28 142-31

162-24 324-47-30	162-23-45	132.33 @ 15-51
		90.09 @ 5-35
162-25 324-51	162-25-30	256.63
		249.39
150-19 300-38-30	150-19-15	1001.39
		389.45
165-41 331-23	165-41-30	150 88 .70
		238.70
73-09-30 146-18	73-09	144.45
		101.26
100-04 200-09	100-04-30	215.0 146.60
		361.60
116-49 233-39	116-49-30	
92-55 185-49-30	92-54-45	

T @ 188 2 TURN RT SWAMP

298 298' @	141-34	119-07 @ 600'
235' @	153-19	350' @ 60-41
108' @	154-18	350' @ 50-47
50' @	86-51	
150' @	32-36	
470' @	109-43	

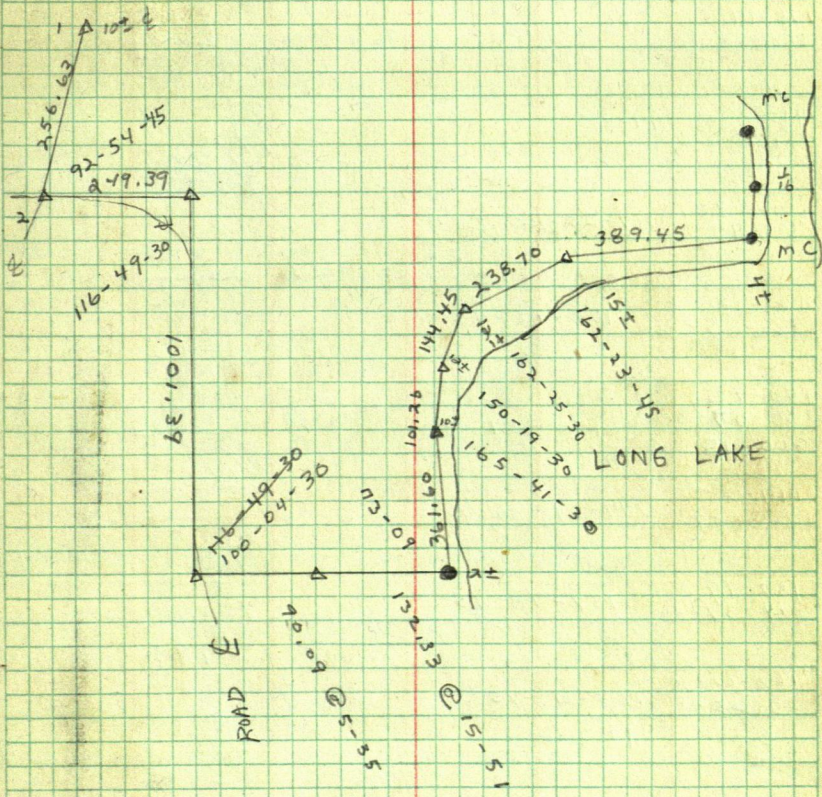
ROAD ⊕

RAY OLSON

RON, DOUG

8/16/78

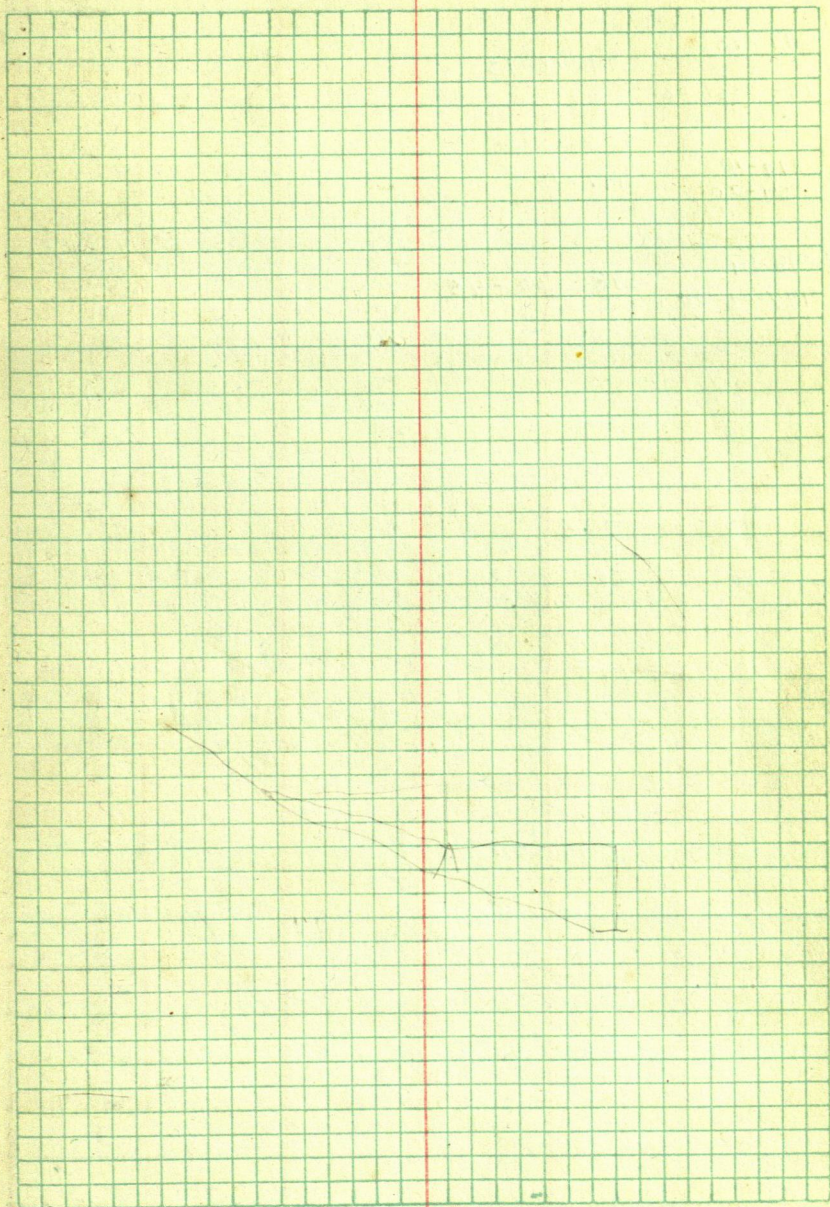
MAY LAKE



171-03 342-06-30	171-03-15	300 300 130 730 - 3.24 726.76 100 240 70.17 729.83 100 -4.45 <u>95.55</u>	110 8.47 101.53 120 10.27 109.73
126-09 252-19	126-09-30		
54-08 108-15	100 54-07-30		
175-14-30 350-28-30	175-14-15		
44-55 89-50	44-55	70 100 190 -6.92 163.08	
167-23 334-45	167-22-30	180 8.85 <u>171.15</u>	
163-13 326-25-30	163-12-45	110 -4.0 <u>106.0</u> 140 -6.90 133.10 170 -8.73 <u>161.27</u> 160 + .25 <u>160.25</u> 230 - 7.83 222.17	
150-12 150-07-30	150-07-30		
200-15			
144-25 288-49	144-24-30		
157-19 314-37-30	157-18-45		
163-01-30 326-03-30	163-01-45		
163-00 326-00	163-00	300 380 - 5.04 374.96 150 - 8.3 <u>141.70</u>	
146-34-30 293-08	146-34		

SHORELINE ELEV

WATER	100± SETBACK	LOCATION		
6.88	100' 2.00 @	00-53	3	8-
6.72	105' 2.00 @	03-42	5	11-
9.92	50' → 4.00 @	11-08	6	18' ← 50' Back from wall instead of 100' 20
8.49	60' → 5.00 @	12-28	7	18-
10.12	30' → 4.00 @	23-46	8	100' 20
13.0 @ 2-19	60' → 7.00 @	19-50	9	24
9.13	105' → 4.00 @	3-11	10	10
9.86	100' → 3.07 @	00-00	11	6
5.50	50' ± → 5.00 @	10-44	12	9
6.70	100' → 3.64	00-	13	4 Brace Cap
7.88	60' → 2.00 @	2-41	$\frac{1}{16}$	8.7-



99-18

79-18-15

198-36-30

177-10

354-20

177-10

98-31

197-01-30

98-30-45

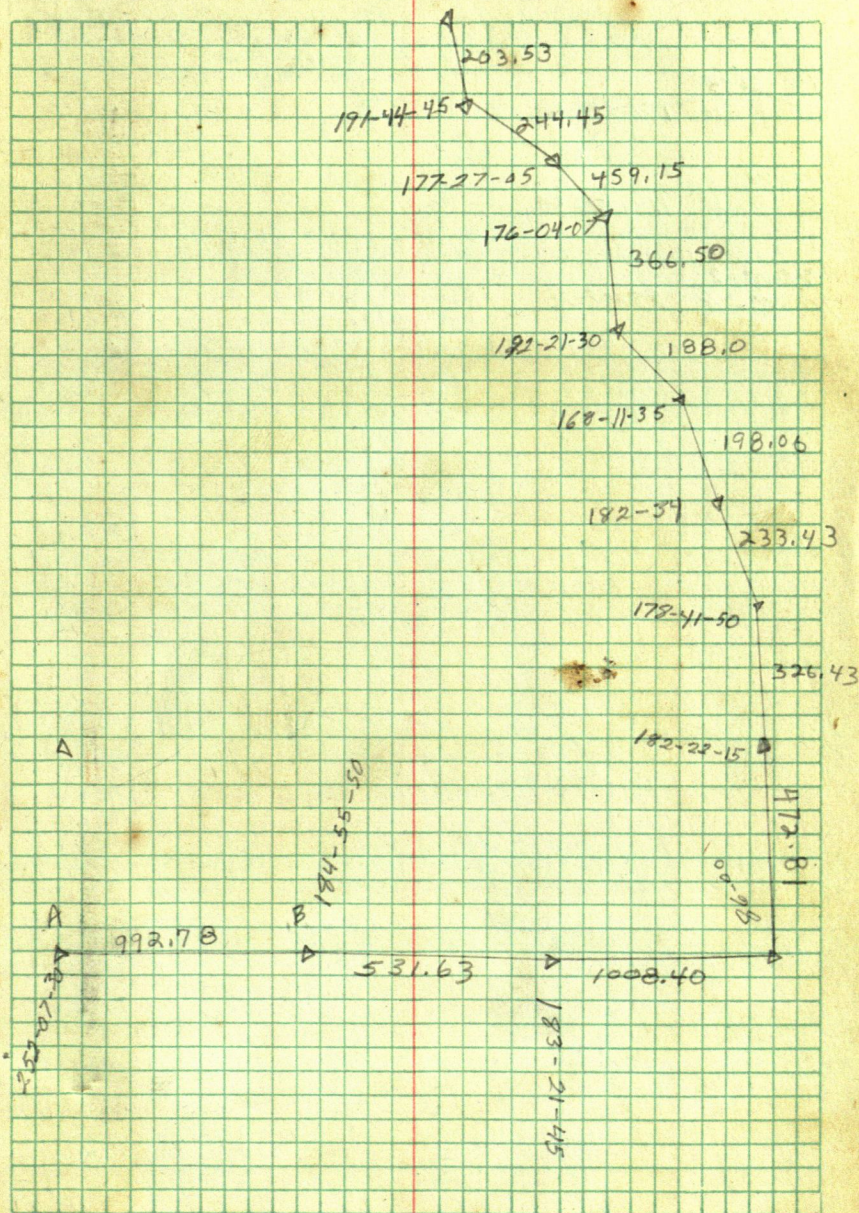
$$\begin{array}{r} 50 \\ 1.5 \overline{) 72} \end{array}$$

50°43'W

90°45' S.E.

80°45' S.W.X

		210	300.0
		-6.47	300.0
252-07-20		203.53	300.0
144-15	252-07-30		101.0
			1000
			-7.22
184-55-40		250	
07-51-40	184-55-50	-5.55	992.78
		244.45	
183-21-30		460	
06-43-30	183-21-45	-1.85	300
		459.15	200
			300
			210
86.00			1010.
172.00		370	
		-3.50	-1.60
182-22		366.50	1008.40
04-44-30	182-22-15		
178-41-50		190	300
357-23-40	178-41-50	-2.0	240
		188.0	540.
			837
			531.63
192-34		200	
05-08	182-34	-1.94	
		198.06	
168-11-25		240	
356-23-10	168-11-25	-6.57	
		233.43	
192-21-10		320	
24-43	192-21-30	-3.57	
		326.43	
176-03-50		480	
352-08-15	176-04-07	-7.19	
		472.81	
191-44-40			
03-29-30	191-44-45		



~~190-21-50~~

~~80-44-10 190-22-05~~

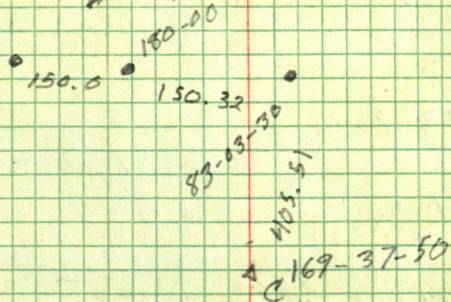
169-78

339-15-40 169-38-50

83-03-20

166-06-40 83-03-20

Spider Lake shore
~~Spider Lake~~
plot



A B

90-57-55		159.48
83-18-45	83-18-40	649.88
166-37-20		380.47
172-49-40	172-50-10	238.35
345-40-20		62.27
99-42-30	99-42-13	200.0
199-24-25		25.30
169-32-05	169-32-40	
339-05-20		
169-32	169-32-40	
339-05-20		
53-43-40	53-43-80	
107-26		
63-54	83-53-50	
127-47-40		
87-45-20	87-45-50	
175-31-40		

RON, KEN

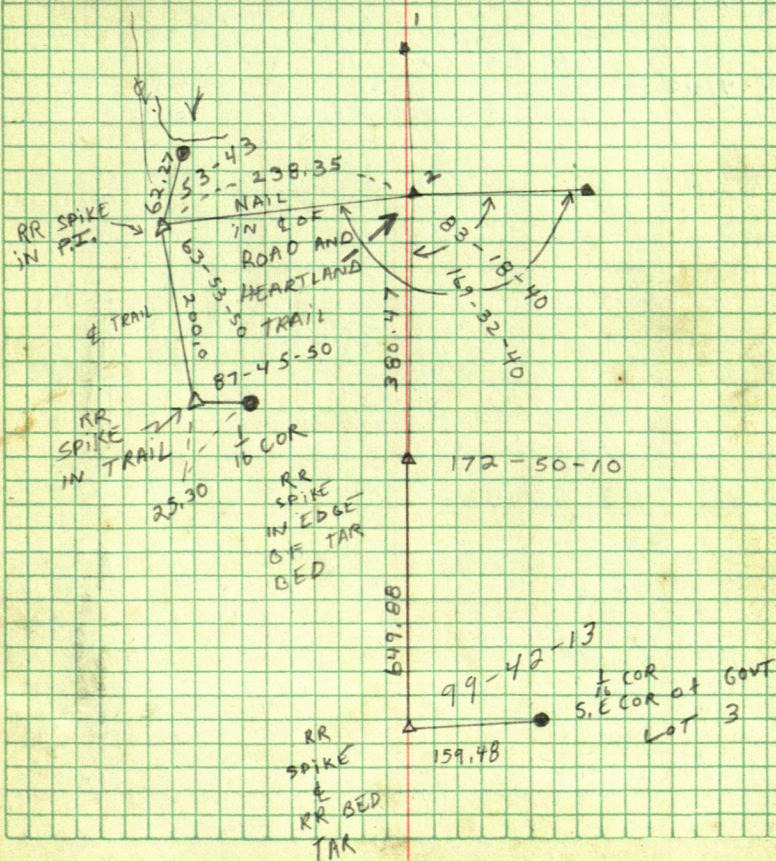
RAY OLSON

10/3/78

SEC 28

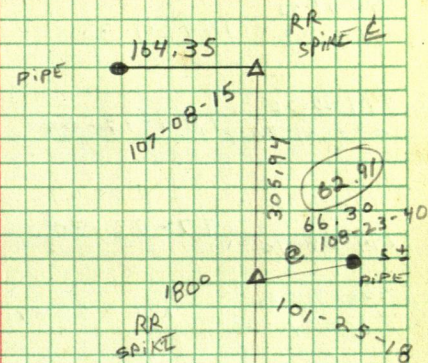
10/4/78

142-31



107-08-20	107-08-15	119.35 55.0
214-16-30		164.35
101-25-35	101-25-00	305.94
202-50-00		
101-25-55	101-25-18	66.30 @ 108-23-40
202-50-35		
179-52-50	179-53-40	830.83
359-47-20		
179-53-05	179-53-35	
359-47-10		

RAY OLSON



830.83
E RAD RR
BED

179-53-35
A NAIL

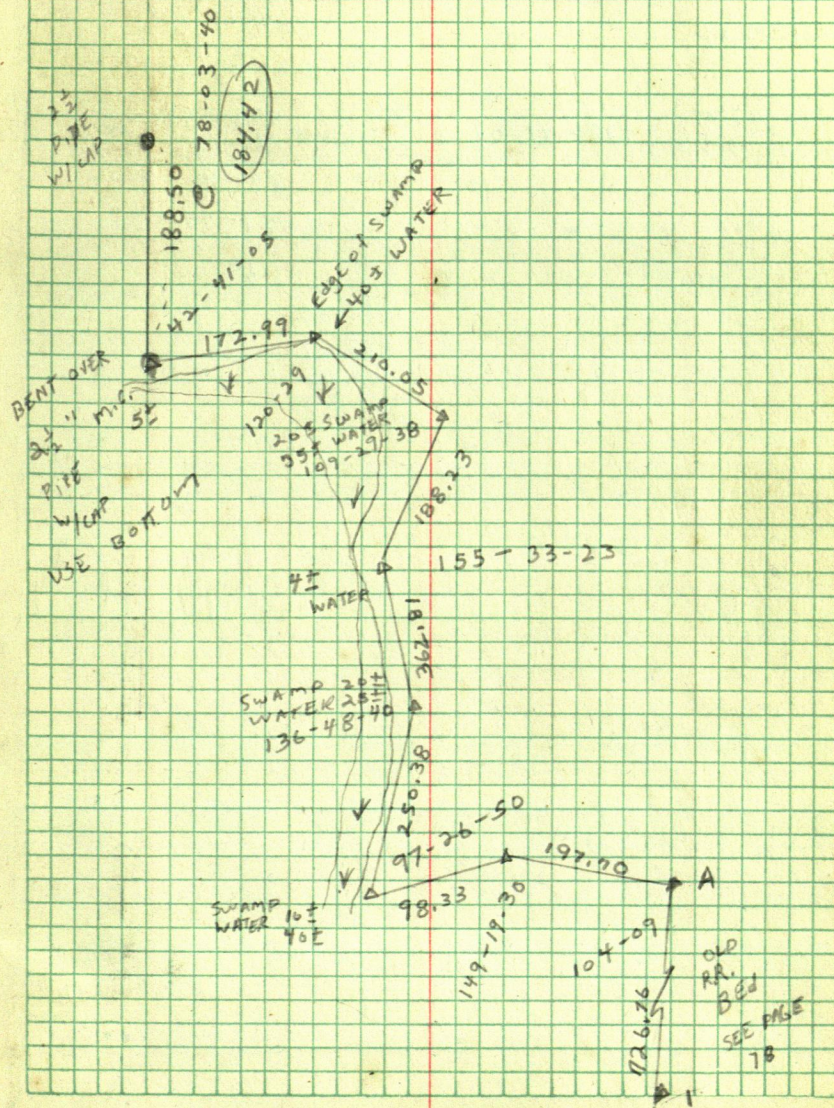
1 NAIL

104-08-48 208-18	104-09	
149-18-50 298-39	149-19-30	188.50 @ 78-03-40
149-18-20 298-39-40	149-19-50	172.0 + .99 172.99
97-27-30 194-53-40	97-26-50	210.05 188.23
136-48-30 273-37-20	136-48-40	362.81 250.38
155-33-20 311-06-45	155-33-23	98.33 82.70 115.0 197.70
109-29-40 218-59-15	109-29-38	
120-29 240-58	120-29	
42-40-40 85-22-10	42-41-05	

RAY OLSON

10/12/78

RON, KEN



165-26-52 @ 1057.30

265-09-05

179-49-01
359-38-03 179-49-01

99-42-13

~~165-26-52~~

264 68 65

265-09-05

359-59-60

265-09-05

94-50-55

359-59-60

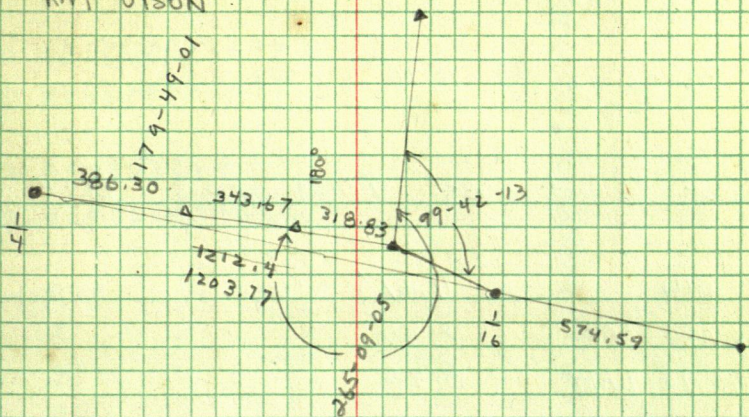
11 265
306.30
343.67
318.83

1048.80

Ran-KEN

11 130 178

RAY OISON



156-05-12 @ 10.18

π @ $\frac{1}{16}$ BS BRASS CAP LEFT

Bm

4.27'

LAKE MAY

8.54

LONG LAKE

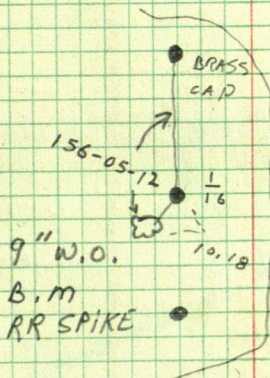
8.45

RAY OISON

12/22/78

RON, KEN

LAKE
MAY



91-31-²⁹42
183-03-06 91-31-33
02-48

341.46
95
386.46

177-17-37
354-34-25 177-17-12

544.45
- 1.57

542.88

177-17-24
354-34-34 177-17-17

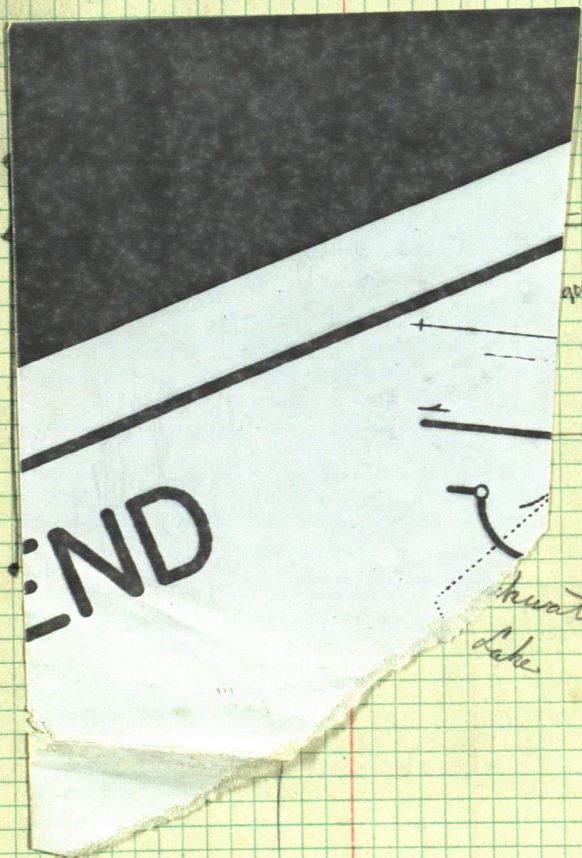
504.54
- 1.57

502.97

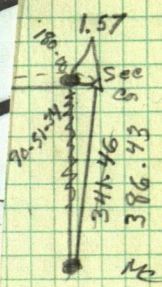
90-51-30
181-43-08 90-51-34

Paul Peon Ken

Pine Haven



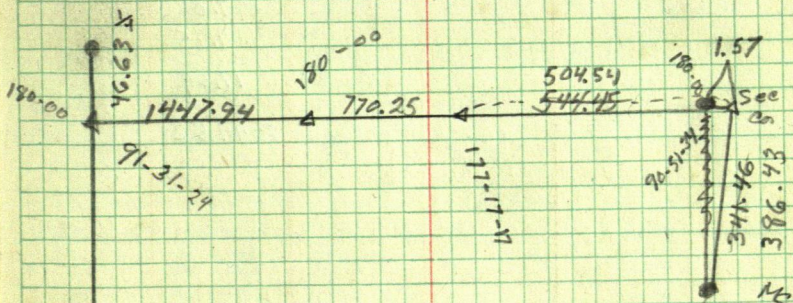
180.00



Shwater
Lake

Paul Ren Ken

Pine Haven



Blackwater
Lake

RON, KEN, PAUL

110-31-57
221-03-30

110-31-45

406.13

440.58

66.39

913.10

35
31.90

159-47-54
319-35-18

159-47-39

1351.85

919.28

432.57

66.90

467.95

389.43

919.28

1352.41

913.10

439.31

387.90

207.0

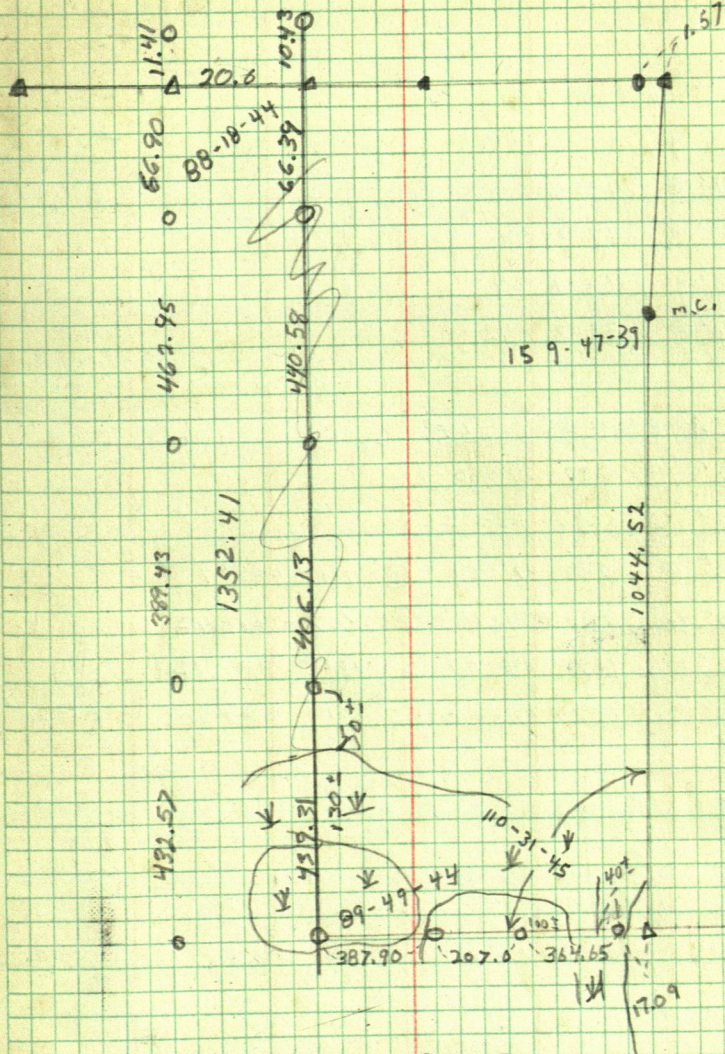
364.65

17.09

1044.52

KRESS BLACKWATER LAKE

2127/79
2128/79



759.55

976.64

RON, PAUL, KEN

2/28/79

T @ 5 $\frac{1}{2}$ BS A RT

21.0' @ 54-10-54

102.0' @ 43-45-00

163.0' @ 47-39-06

177.0' @ 43-51-24

190.0' @ 39-31-42

T @ A BS 5 $\frac{1}{4}$ LT

121.0' @ 297-27-50

93.0' @ 294-52-02

34.0' @ 252-38-24 @ 111-48-54

68.0' @ 180-54-15 @ 107-06-42

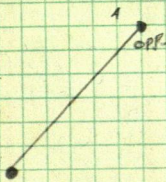
104.0' @ 167-04-37 @ 101-45-12

96.0' @ 181-13-03 @ 101-53-50 R²=30'

ROSE ANDERSON

SEE BOOK # 177

59



Fred Erickson
George Trotter

Paul Ron Ken

165-11-22

370-22-42

165-11-21

50
40

312.25

174-04-20

348-08-48

174-04-24

200 200
200 200
200 200
200 200
200 200

89-37-32

179-15-02

89-37-31

200 200
200 200
200 200
200 130.46
200
200

122-31-42

245-08-18

122-31-39

4330.46

206-49-20

53-38-44

153-10-58

306-21-48

153-10-59

200 200
200 110.50
200

44-45

89-29-40

44-49-50

104-36-04

209-11-52

104-35-56

64-07-56

129-15

64-07-30

148-47-08

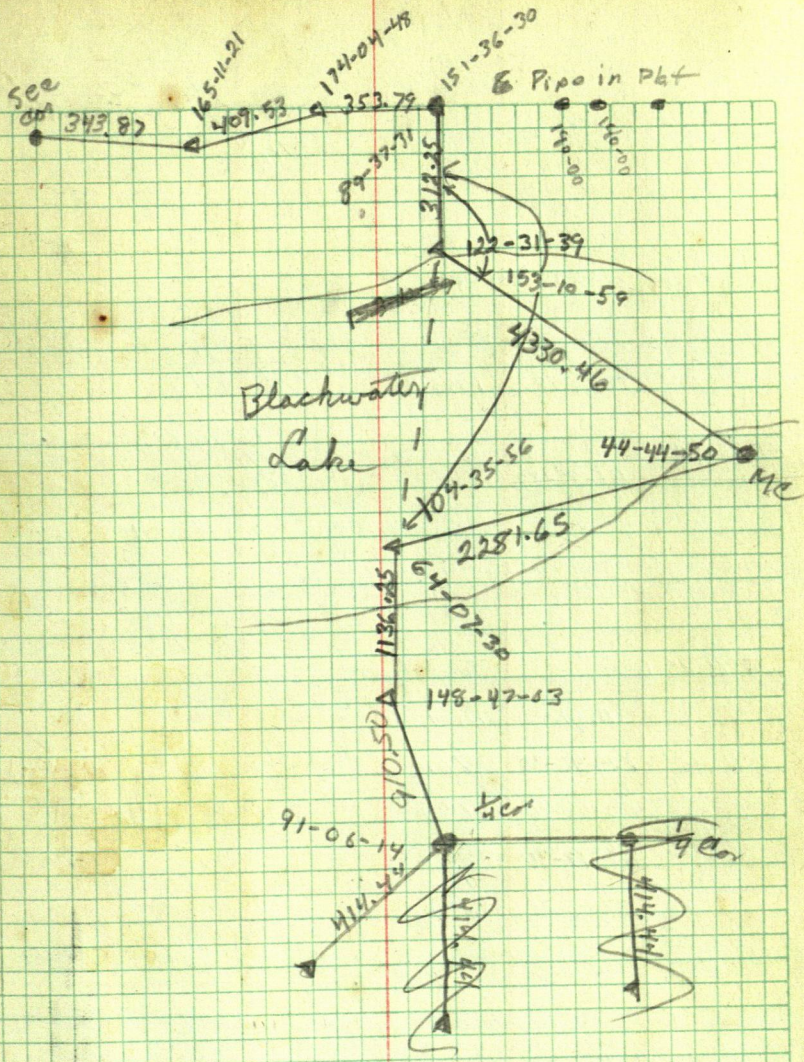
227-34-06

148-47-03

91-06-15

182-12-28

91-06-14



130 . 76

|||||

173.47

|||||

137.111
137.63

530
102.65
712.65

179-24-26
358-48-06 179-24-03

179-24-12
358-41-46 179-23-53

179-44-50
359-29-21 179-44-41

98-04-10
196-08-24 98-04-12 185.46

2130.76
573.43
2704.19

161-32-42
323-05-18 161-32-39

1937.63
72.65
2650.28
399.42

T @ BS B

Tree line

Angle Dist

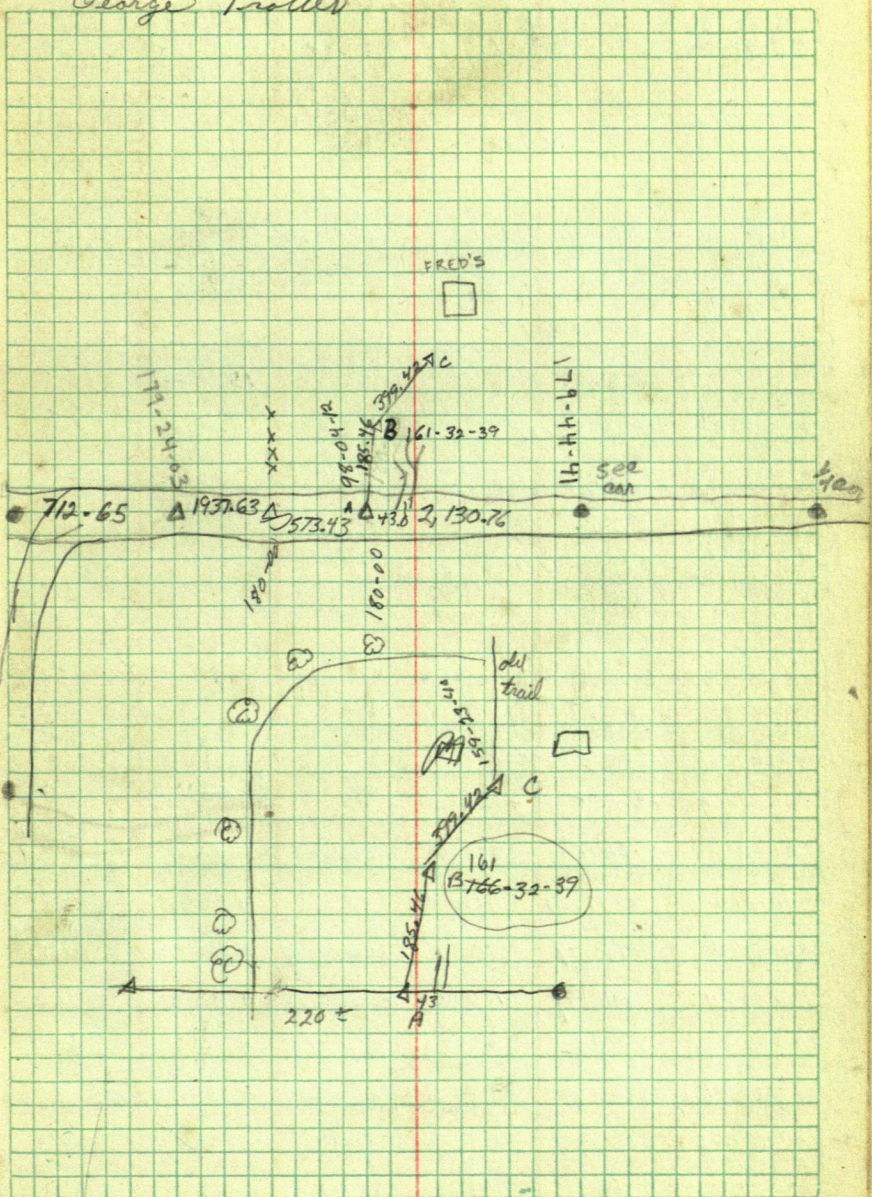
124 1/2 - 30 76.0

82 - 23 - 06 365.0

62 - 13 - 30 384.0

37 - 38 - 02 427.6

George Trotter



RON, KEN

3/15/79

179-53-48
359-47-26

179-53-43

183-07-45
06-15-03

183-07-32

111-36-50
223-13-45

111-36-52

136.75 @

261-32-54

(135.26)

1064.66

62-09-20
124-18-54

62-09-27

1310.60

1419.08

216-34-36
13-08-33

216-34-17

822

52.60

433-08-33

874.60

439.0

97-09-01
194-19-54

97-09-57

2341.20

97-11-12
194-22-06

97-11-03

150-18-36
300-36-48

150-18-24



TIME SCHEDULE



CREW	DATE	START	LUNCH	FINISH	
RON-KEN	3/14/79	1:00 P.M.	—	4:45 P.M.	WED.
RON-KEN	3/15/79	9:00 A.M.	12:00-12:45	5:00 P.M.	THURS.
RON-KEN	3/16/79	10:00 A.M.	12:00-12:45	4:45 P.M.	FRI.
RON-KEN-PAUL	3/20/79	9:45 A.M.	12:10-1:00	4:40 P.M.	TUES
RON-KEN-PAUL	3/21/79	9:30 A.M.	11:50-12:45	5:00 P.M.	WED.
RON-PAUL	3/22/79	2:30 P.M.	—	4:30 P.M.	THURS
RON-PAUL	3/23/79	9:15 A.M.	12:30	—	FRI

547-3130

JIM ANDERSON

RRS

150-10-24

1084.96

RRS

177-53-43

97-11-03

1310.60

2371.20

216-34-17

RRS X

103-07-32

489.0

1419.00

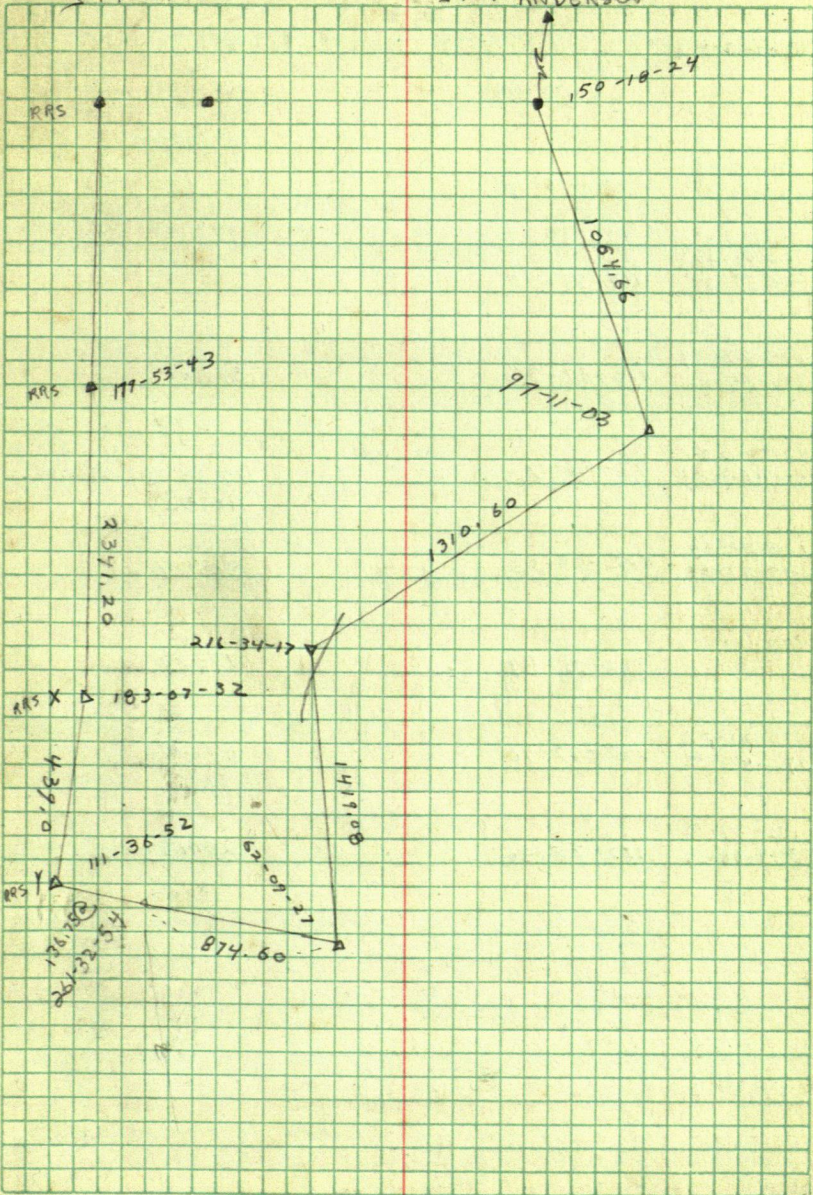
RRS Y

111-36-52

62-02-27

874.60

176.00
261-32-54



RON-KEN

3/16/79

106-47-59

X

184-15-27
08-30-36

184-15-18

DISTANCES

164-48-38
329-37-21

164-48-40

175-27-39
350-55-06

175-27-33

518.95

93-53-22
187-46-33

93-53-17

117.33 @ 109-36-48
110.52

182-53-39
05-47-06

182-53-33

515.24

~~192-22-57~~

~~224-45-18~~

~~384-45-18~~

~~192-22-39~~

R.B.

773.07

192-22-54
24-45-32

192-22-46

477.64

172-24-35
344-48-59

172-24-30

2674.13

184-15-18

JIM ANDERSON

TRAVERSE DOWN HEARTLAND SNO-TRAIL

RRSP.
E Edge

X

(PAVED)

SEE
PREVIOUS
PAGE

RRSP. Y
E Edge
172-24-30

2694.13

192-22-48
RRSP.
W Edge

45.44
47.44
20.67
10.67

110.52

117.33 @ 109+36-48
16 COR
BRASS CAP

182-53-53
RRS
E Edge

93-53-17

175-27-33
RRS
E Edge
MILE 26 POST

164-48-40
118.23
115-18
50.50
116.91

RON - KEN - PAUL

N. LINE BRG

70-52-54-4

FRA W. LINE BRG

3-36-25-1

155-01-27
310-02-50

155-01-25

95.55

119.05

65-16-20

79.27 @ 106-42-18

+ 56.80

+ 70.00

65.0 @ 66-09

~~64-45-36~~

89-60

66-09

23-51

~~64-75-80~~ .915

~~64-45-36~~ 65

30-44 4575

5490

30

103

.90

59.475

59.48

.59

.90

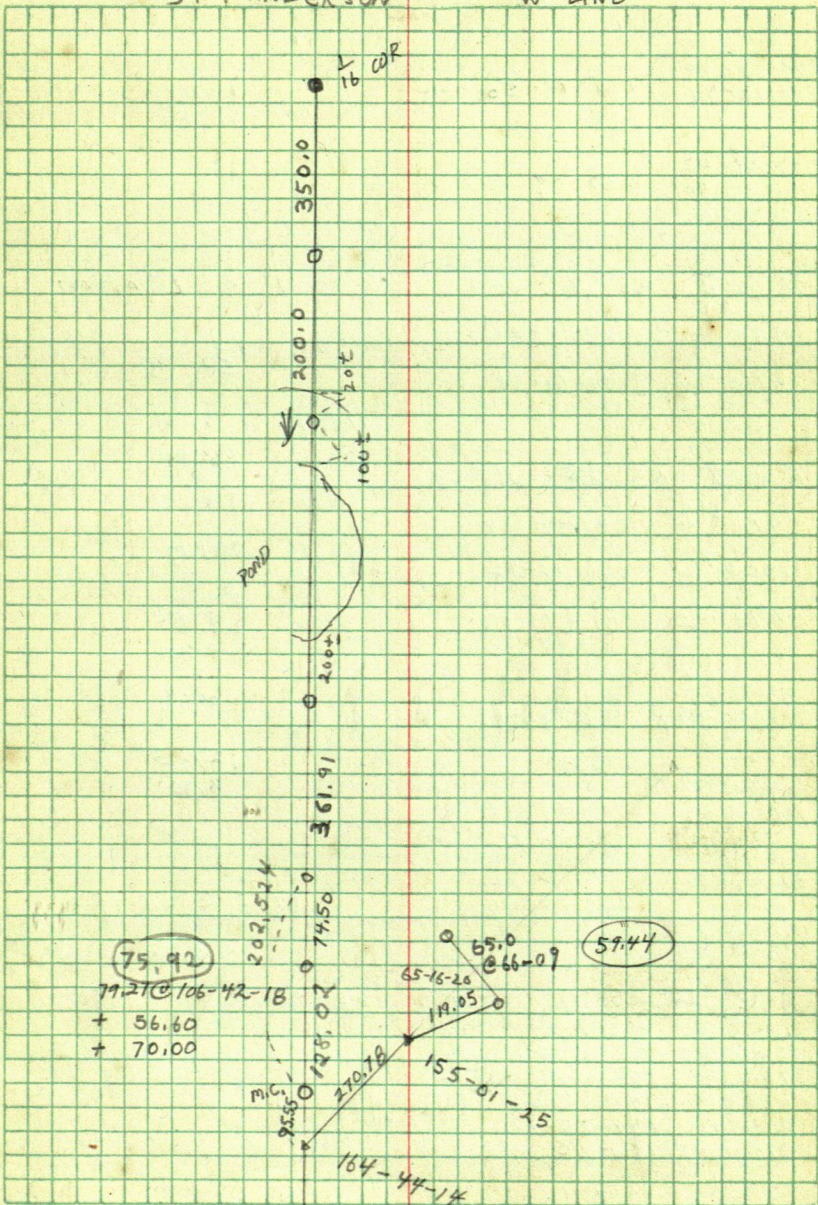
0°

.531

3(1.9)

JIM ANDERSON

W LINE



75.92

77.21 @ 106-42-18
+ 56.60
+ 70.00

59.44

JIM ANDERSON

ROAD TRAVERSE

150-07-00		370
300-13-51	150-06-56	<u>147.70</u>
		517.70

207-40-02	
55-19-50	207-39-55
415-19-50	

π @ II BS I RT ROAD & LOCATION

178.0' @ 00-19-30

67.0' @ 04-59-30

361.91

172.11 411.91

π @ II BS III RT

86.22 305.34

47.0' @ 351-00-54

80.20 530.41

156.0' @ 356-17-45

68.23 181.17

23.41

273.0' @ 01-43-09

200.0
8.82

208.82

83-26-25
166-52-27 83-26-14

279.29

94-04-06
188-08-12 ~~94-04-06~~

127.93

8.90

95-23-42

23.38

220-48-06
81-36 220-48-00

67.05 @ 246-19-30

441-36-00

31.30 @ 90°

π @ III BS IV RT. & ROAD

135.0 @ 00-51-27

28.0 @ 57-26-15

76.0 @ 140-08-03

143.0 @ 142-18-09

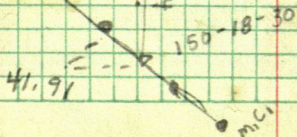
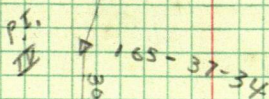
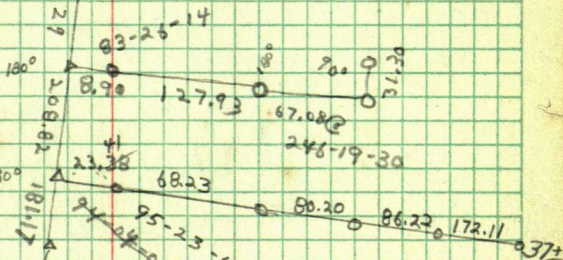
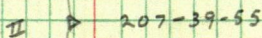
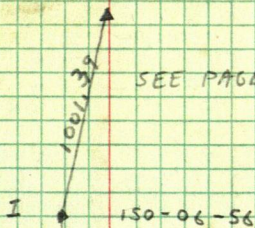
213.0 @ 139-25-06

310.0 @ 136-45

3/21/79

RON-KEN-PAUL

SEE PAGE 78



ANDERSON

165-37-45
331-15-08

165-37-34

NAIL LKSH. 99.74 @ 109-00-10

-13.35

150-18-30
300-37

150-18-30

NAIL TO PIPE

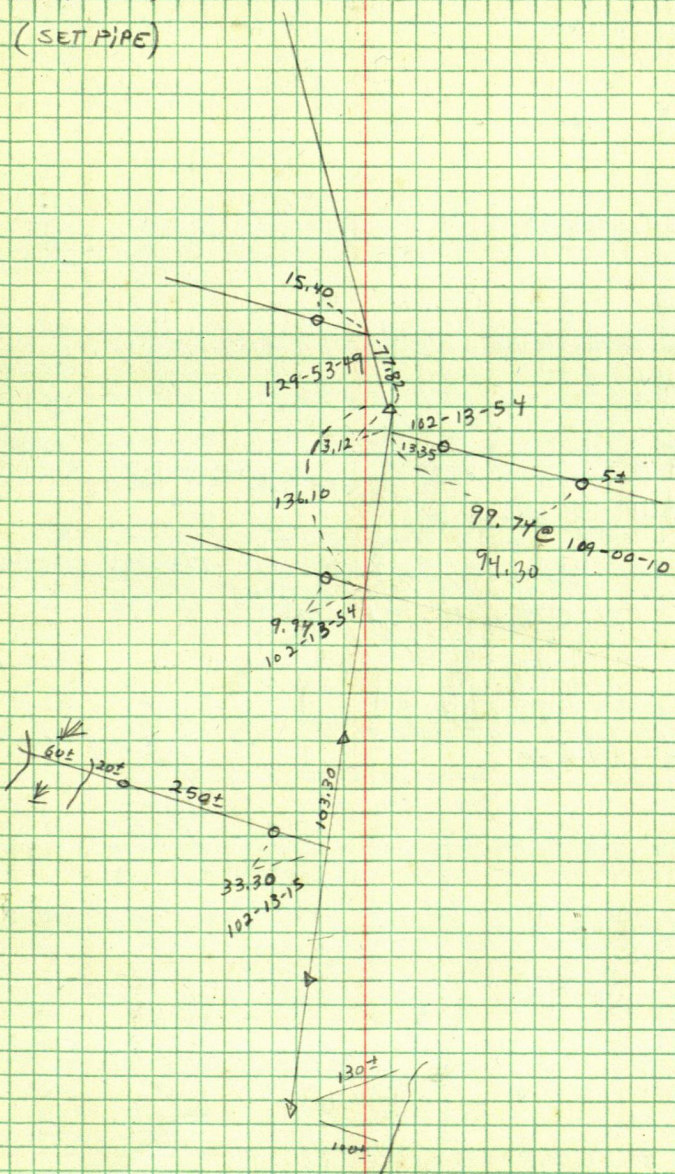
33.30

2507 203 to RASHA
802

3/23/79

RON - PAUL

(SET PIPE)



SAYER

180-00-25	180-00-20	730
40-40		<u>138.1</u>
		868.1

190-20-36	190-20-20	120.0
20-40-40		200.0
		<u>139.10</u>
189-25-17	169-25-02	459.10
338-50-03		<u>868.1</u>
		1327.20

164-07-50		206.30
185-14-40	185-14-25	
10-28-50		133.40

TEA

PISTACHE TO SEC COR

331.05

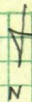
<u>VERT.</u>	<u>DIST</u>	122,044	@ 259.48-54
91-58-28	583.32 F	(582.97)	
	177.799 M		

81-00-00	80-59-51
161-59-42	

	1352.984
2 /	<u>2705.969</u>
	604
	<u>1019</u>
	16

RON - KEN

7/16/79



SEC. COR

A

331.05

233.40

206.30

459.10

180-00.20

868.1

259-48.54

1/4 COR
2" X 4"
IN SWAMP

180°
PIPE
1" N

185-14-25

189-25-02

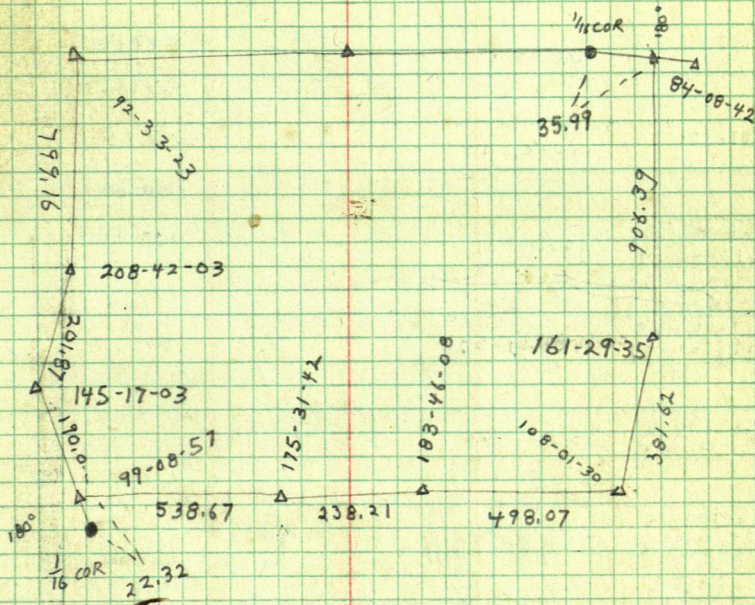
190-20-20

SAYER

92-33-36 185-06-45	92-33-23	799.16
		201.87
208-42-12 57-24-06 417	208-42-03	190.0'
		'
145-17-11 290-34-06	145-17-03	470
		68.67
99-08-54 198-17-54	99-08-57	538.67
		238.21
175-32-07 351-03-24	175-31-42	498.07
		381.62
175-32-07 351-03-24	175-31-42	906.39
		35.99
183-46-27 07-32-15	183-46-08	
115-33-12 2		
108-01-35 216-03	108-01-30	
84-08-54 168-17-24	84-08-42	
161-29-48 322-59-09	161-29-35	

RON-KEN

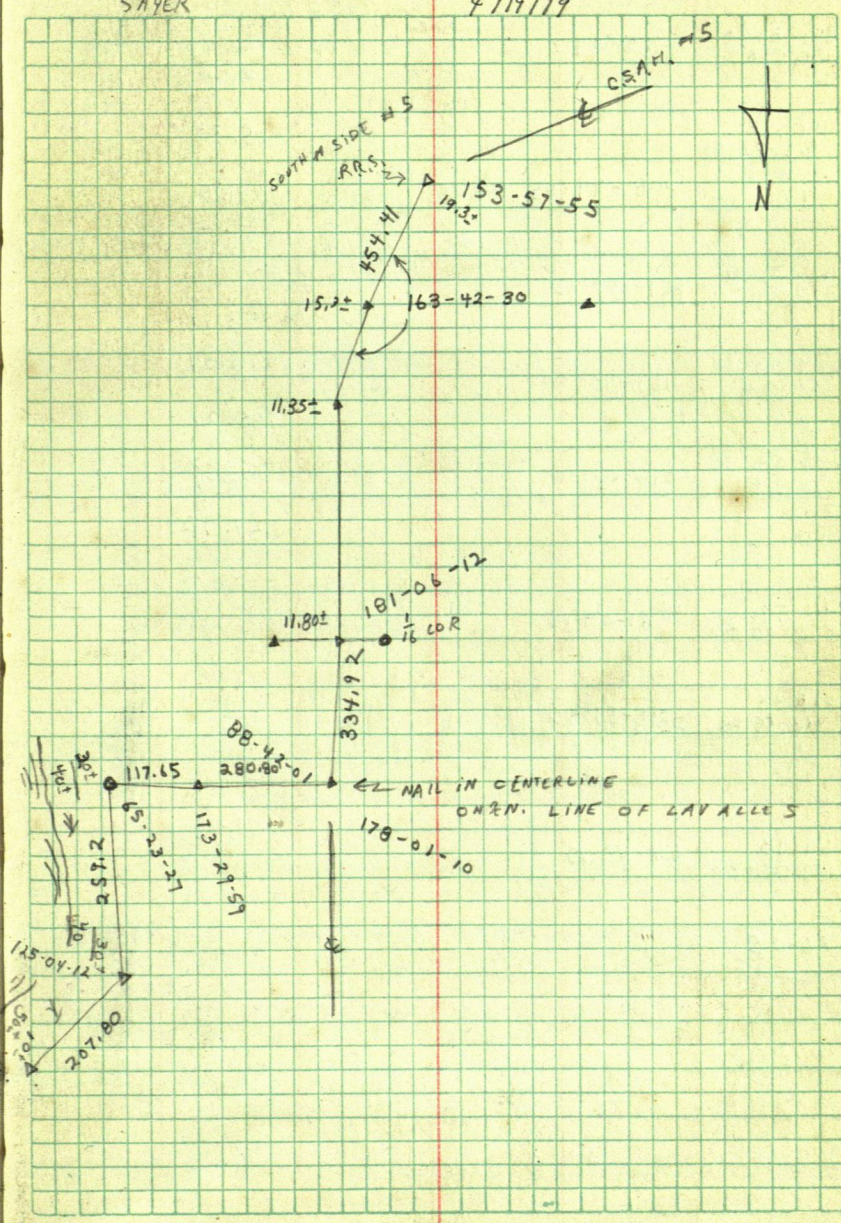
4/17/79



163-42-43 327-25-00	163-42-30	200.0
		454.41
153-57-54 307-55-50	153-57-55	19.3
		15.3
		11.35
181-06-22 02-12-24	181-06-12	207.80
		259.2
178-01-20 356-02-20	178-01-10	117.65
		280.80
88-42-03 177-24-02	88-42-01	334.92
173-30-20 346-39-57	173-29-59	
65-23-18 30-46-54	65-23-27	
125-04-15 250-08-24	125-04-12	

SAYER

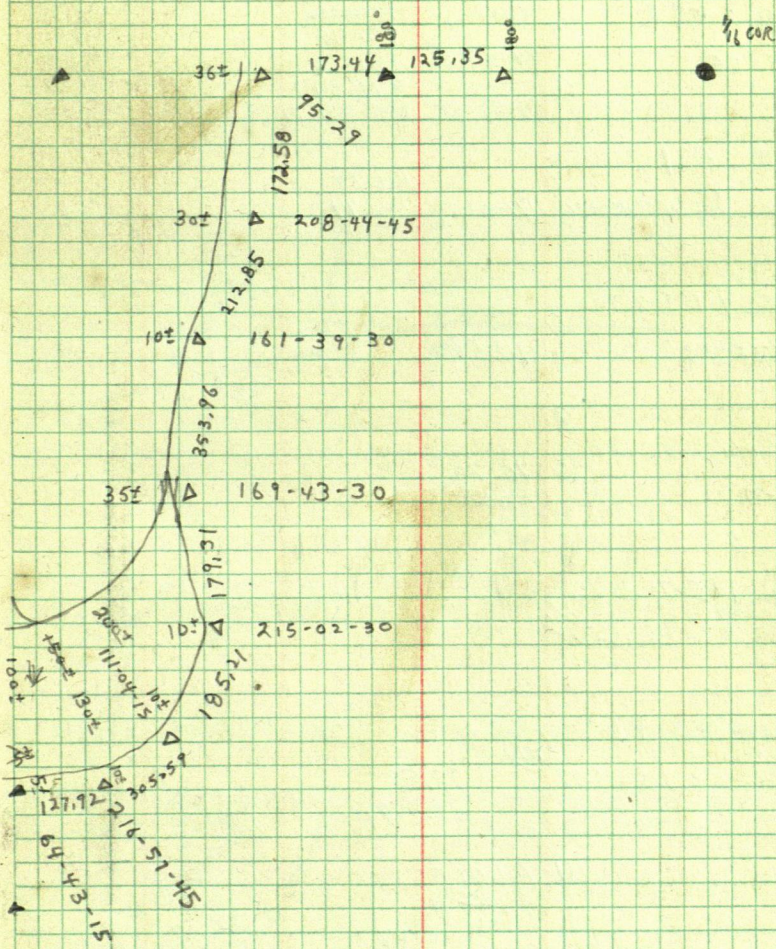
4119179



		4123/179	
95-28-30 190-58	95-29	173.44	459.10
		36±	209.44
			<u>668.54</u>
208-45 57-28-30		125.35	334.27
<u>360</u> 417	208-44-45	172.58	459.10
		212.85	334.27
		3-	<u>125.35</u>
161-39-30 323-19	161-39-30		
		353.16	
169-43-30 339-27	169-43-30	179.31	
		185.21	
215-02-30 70-05	215-02-30	305.59	
<u>360</u> 430		127.92	
111-04 222-08-30	111-04-15		
218-58 73-55-30	216-57-45		
<u>360</u> 433			
64-43 129-26-30	64-43-15		
<u>86-25</u>			

SAYER

RON-KEN



81-00-00

161-59-42 80-59-51

$\pi @ 2 B S 3$

	vert	Dist
(3)		159.45 F
	91-24-36	48.594 M
(1)		342.31 F
	91-29-48	104.338 M

9-05-56

$\pi @ 2 B S 1$

		(4)	161.87
168-03-42			
336-07-12	168-03-36	91-01-04	49.394

$\pi @ 4 B S 2$

	(8)	
248-00-32		14.52

$\pi @ 4 B S 5$

	(2)	76.73
192-39-42		76.73

$\pi @ 1 B S 7$

89-15-34		$\frac{1}{16}$
178-32-50	89-15-25	

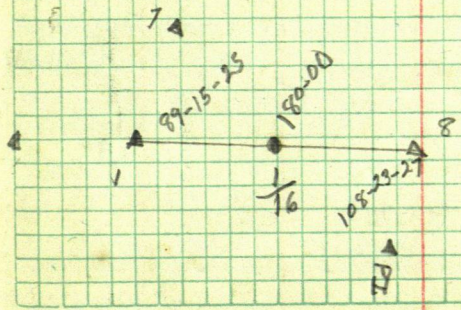
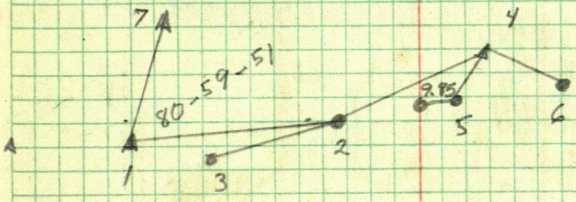
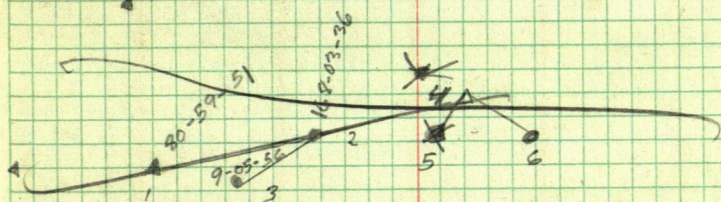
$\pi @ 8 B S P I$

108-23-30		(PI)	
216-46-54	108-23-27		93.82 F
			28.599 M

(1)	161.61 F
	49.266 M
	.260

($\frac{1}{16}$)	72.85 F
--------------------	---------

161.61
72.85
<hr/>
88.76
<hr/>
161.61



RUN, KEN

86-13-33
172-26-57

86-13-29

742.31

156-03-48
312-07-33

156-03-47

544.0

45.39

67-15-24
134-30-48

67-15-24

544.0

742.31

1286.31

SAYER

5/17/79



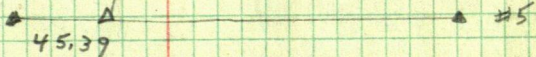
86-13-19

742.31

156-03-47

544.10

67-15-24



Tim miers

179-11-30 358-27-00				199.82	200.0 @	2-25
					+ 92.76	
179-14 358-28	179-14	122-57 245-55	122-57-30		156.45 @	9-50
179-13-48 358-27-48	(179-13-54)				195.90	
189-34 372-39		143-26-30 286-52	143-26		335.79	
183-06 06-12	183-06				@ 200' -	6' from Shore to line
		183-05-24 06-10-24			(183-05-12)	
71-25 142-50	71-25				90.30	
					127.25	
82-22-30 164-45	82-22-30				239.0 80.0	
					319.0 175.3	
192-11 384-22	192-11				333.53	
131-16 262-32	131-16				141.28	
					136.33	
61-08-30 122-17	61-08-30				135.12	
200-59 154-01-30 208-03	154-01-30					

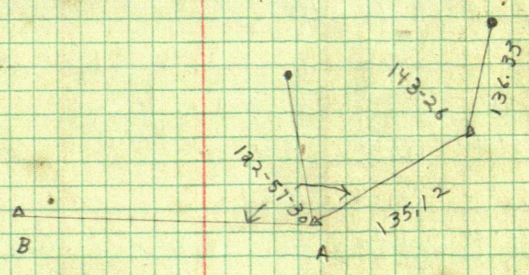
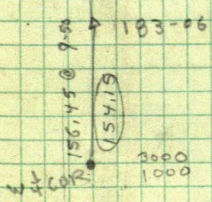
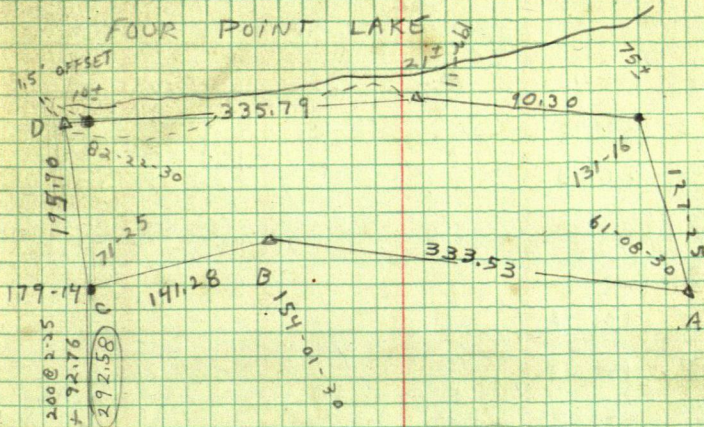
T @ A B S B RT

CABIN

- 1 113.0' @ 18-47
- 2 92.0' @ 25-07
- 3 110.0' @ 38-24

W-ROY BAY

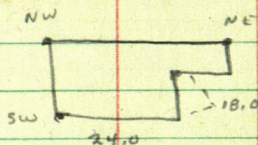
FOUR POINT LAKE



T @ B BS A RT

OFFICE

- 1 NE 110' @ 15-11
- 2 NW 49.0' @ 23-43
- 3 SW 68.0' @ 54-53



GARAGE

- 4 82.0' @ 131-18 SE
- 5 71.0' @ 151-18 NE
- 6 89.0' @ 153-52 NW
- 7 62.0' @ 154-27 SE
- 8 62.0' @ 165-38 NE
- 9 18' DEEP TO WEST

HOUSE

- 9 63.0' @ 179-35 SW
- 10 39.0' @ 181-40 SE
- 11 47.0' @ 209-30
- 12 38.0' @ 219-13
- 13 70.0' @ 241-50 NE

SHED

- 14 100.0' @ ²⁷⁷272-00 SW 8x8

T @ B S A RT

SHED

1 58.0' @ ²⁷⁷⁻⁰⁰
~~281-20~~ ~~SW~~ 5x5
 281-20 SW

SHED

2 105.0' @ ^x
~~280-59~~ SE 8x8
 290-00

GAS TANK

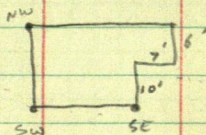
3 63.0' @ ²⁸⁹⁻¹⁵
~~280-57~~ CENTER 3x8

CABIN

4 107' @ ⁴⁵ 301-00 NW

5 92' @ 309-15 SW

6 102' @ ³
~~318-30~~ SE
~~317-10~~



CABIN

7 175.0' @ 335-10 NW

8 163.0' @ 349-00 SW

9 184.0' @ 350-05

T @ D B S C

LEFT

CABIN

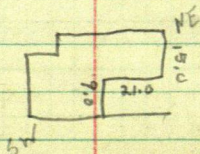
1 38.0' @ 6-08 SW

2 22.0' @ 14-23

3 26.0' @ 28-55

4 19.0' @ 42-50

5 43.0' @ 66-45 NE



6129179

89-50
179-89-30 89-49-45

179-25
358-50 179-25 155.68 @ 7-36

190.16

181-55
363-49 181-54-30 185.56 @ 6-18

248.98

178-50-30
357-41 50
178-35-30

190.0

151.19

179-55
359-50 179-55

341.19

179.20 @ 5-15

180-37
361-14 180-37

π @ 8 BSB ~~Ver~~

Ver

7. 292.88
91-44-24 89.249

292.615

9. 155.41
97-32-34 47.372

154.065

π @ 10 B59

9. 155.31
96-34-08 47.340

154.29

11. 190.26
91-27-06 57.997

190.199

π @ 12 B511

11. 185.21
84-31-36 56.447

184.366

13. 249.68
84-52-09 76.103

248.679

π @ 14 B519

13. 341.40
88-03-42 104.060

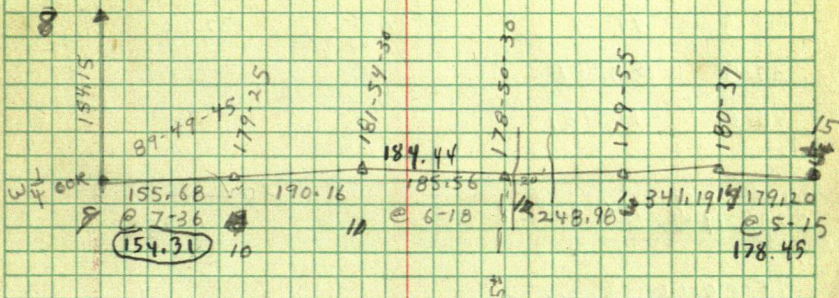
341.20

15. 179.11
85-06-54 54.594

178.454

JIM MEIER

RON, KEN, DOUG



$$\begin{array}{r}
 754 \\
 140 \\
 \hline
 185 \\
 529 \\
 \hline
 249 \\
 278 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 341 \\
 178 \\
 \hline
 519
 \end{array}$$

RON-KEN

150-16-18 300-32-42	150-16-21		135.40
			206.60
T @ A BS B RT			253.30
1 60.0	79-54	GARAGE	137.05
2 37.5	89-36		
3 48.0	109-31		

146-09-57
292-19-53

146-09-57

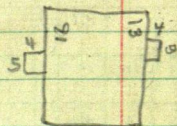
95-00-06
190-00-11

95-00-06

T @ E BS A RT

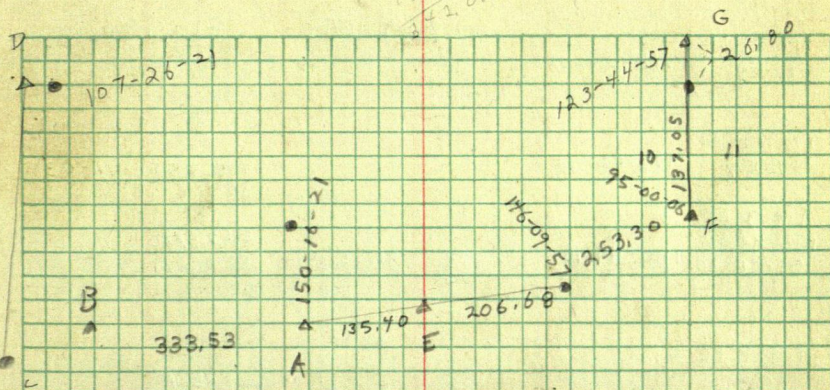
1 68.0	02-59	GARAGE	
2 47.0	05-31		
3 54.0	25-23		

4 134.5	37-19	HOUSE	
5 115.0	43-48		
6 146.0	57-04		



7 70.0	94-54	HOUSE	
8 112.5	94-54		
9 71.5	107-55		

$\frac{206.65}{135.40}$
 $\frac{142.08}{135.40}$



$\pi @ G B S F$

123-45-04
 247-29-57 - 123-44-57

F. @ 87-55-50 - F. 832.72
 M. 253.813

832.18

D. @ 90-03-33 - F. 163.85
 M. 479.945

163.85

$\pi @ D B S G$

107-26-42
 214-52-42 107-26-21

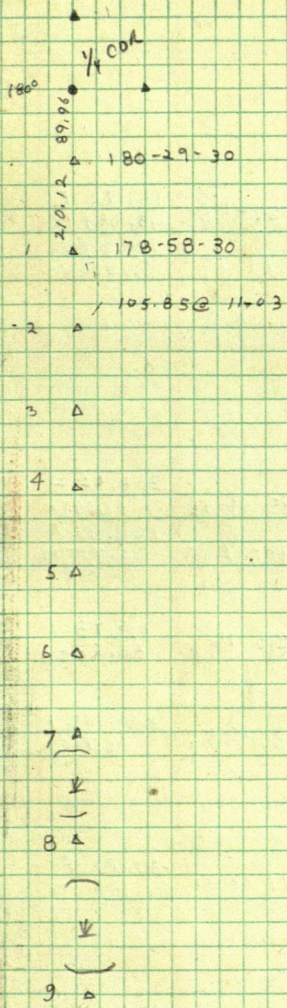
LU-ROY BAY

Jim MEIERS

180-30 360-59	180-29-30			89.96	
				210.12	
178-58-30 357-57	178-58-30			105.85 [ⓐ]	<u>103.89</u> 11-03
$\pi @ 2 BS$ 1				289.57 F	
180-44-30 01-28-30	180-44-15	③	95-50	88.260 M	288.071
$\pi @ 3 BS$ 2					
180°		④	87-59	347.05 F 105.809 M	346.835
$\pi @ 4 BS$ 3					
180-06-27 0-12-52	180-06-26	⑤	82-27	316.86 F 96.575 M	314.113
$\pi @ 5 BS$ 4					
179-57 359-53-30	179-56-45	⑥	82-55	136.69 F 41.665 M	135.647
$\pi @ 6 BS$ 5					
180°		⑦	98-51	209.02 F 63.708 M	206.532
$\pi @ 7 BS$ 6					
180°		⑧	94-24	366.14 F 111.610 M	365.061
$\pi @ 8 BS$ 7					
180°		⑨	90-09	415.47 F 415.47 F 126.638 M	415.47

RON-KEN

817179



5W SEC COR

10 11 12 13 14 15

SEC OR 190/4

20 W OF

WIT. COR

1/18 COR

8/7/79

RON-KEN

 $\pi @ 9 \text{ BS } 8$

163-19-42

326-39-12

163-19-36

 $\pi @ \text{ SEC COR BS } 9$

104-07-09

208-14

104-07

⑨

91-55

161.94 F

49.353 m

161.879

⑩

274-14

170.04 F

51.832 m

169.576

 $\pi @ 10 \text{ BS SEC COR}$

180°

 $\pi @ 11 \text{ BS } 10$

180-01-15

00-02-24

180-01-12

⑪

85-06-45

308.55 F

94.097 m

307.428

⑫

273-27-30

108.97 F

33.372 m

108.772

215

 $\pi @ 12 \text{ BS } 11$

180°

⑬

93-15

197.73 F

60.268 m

197.412

 $\pi @ 13 \text{ BS } 12$

179-54-24

359-48-48

179-54-24

⑭

81-26

294.39 F

89.730 m

294.206

 $\pi @ 14 \text{ BS } 13$

179-40-48

359-21-03

179-40-32

⑮

97-36-30

87.79 F

26.758 m

87.018

 $\pi @ 15 \text{ BS } 14$

199-10-12

38-20

199-10

⑯

105-47

146.28 F

44.587 m

140.764

398-20

Mein

A@ 1/6 BS1

87-58-56			737.26	737.190
175-57-46	2.	87-58-58	90-47-18	737.216
			224.722	

A@ 2 BS 1/6

	3.		423.31	423.307
180-00		90-12-12	129.625	423.315

A@ 3 BS2

69-06-18				
138-12-32		69-06-16		

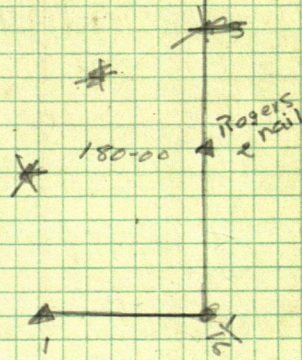
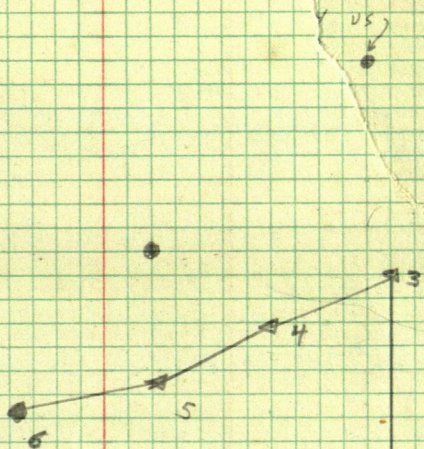
A@ 4 BS3

	3.		194.98	194.791
153-38-34		88-16-10	59.377	194.785
	5.		311.31	
307-16-48		153-38-24	94.887	

A@ 5 BS4

168-45-20				
337-30-06		168-45-03		

Paul Daus Ken



A@ 1/6 BS1

88-58-56

175-57-46 87

A@ 2 BS 1/6

A@ 3 B

69-06-1

138-10

180-07-04

360-14-24

180-07-12

174-44-18

344-28-12

174-44-06

JIM MEIER

SET BY US
10

V
60.7 S
60.03 S
1.2 S

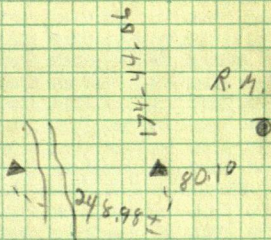
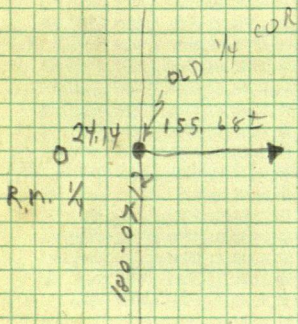
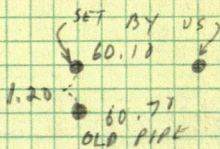
30.0464025 A0
0.0006897 A0

R.M.
V
123.0000000 a0
28.0000000 a0
0.6196800 a0

0.0000000 a0
56.0000000 a0
41.8016400 a0

55.0000000 a0
35.0000000 a0
17.5786800 a0

JIM MEIER



10.60	4" ASH	S 70 E
33.66	7" ASH	S 20 W
21.75	7" ASH	N 20 E

62°55'

@2 95°46' 250'

@5 64 LDR 95°21' 250'

Hut turn 90°

.99815
30.52

799630

.98944

3052

499075
299405

50
304635380

197888
494720

296882

98944)

19540
197888

98944

50.00
301977088

19.8

19.75

964560
890496

740640

890364

692608

480320

67.71

9.995390

1.829304

11.824694

826075
9.995390

1.830685

1352.2
 1320.6

 22672.8
 1356.4
 33.7

 2.7

640
 42

 726

5

136.3

 1811
 2649.4

 2667.5
 1333.7
 12.3

5503
 5310

 2114.3

2.66
 125

 191

550.6

2640
 2880

 5520

30.52

60.11

90.63

50.21

22.7

76.7

 47

94.48

72.75

40.63

183.38

163.38

163.1

78

50.57

27.7

78.27

79

54

 16.71
 10.1
 6.01

150

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.
 FOR SINGLE TRACK EMBANKMENT.

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

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